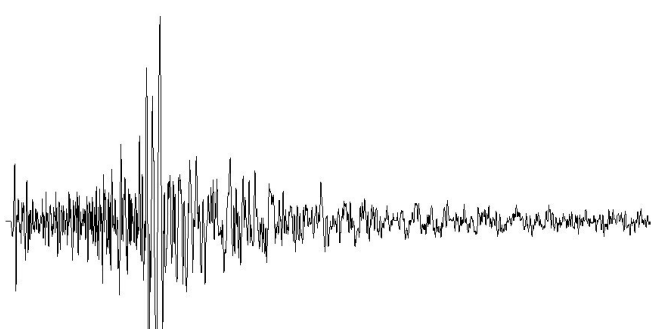
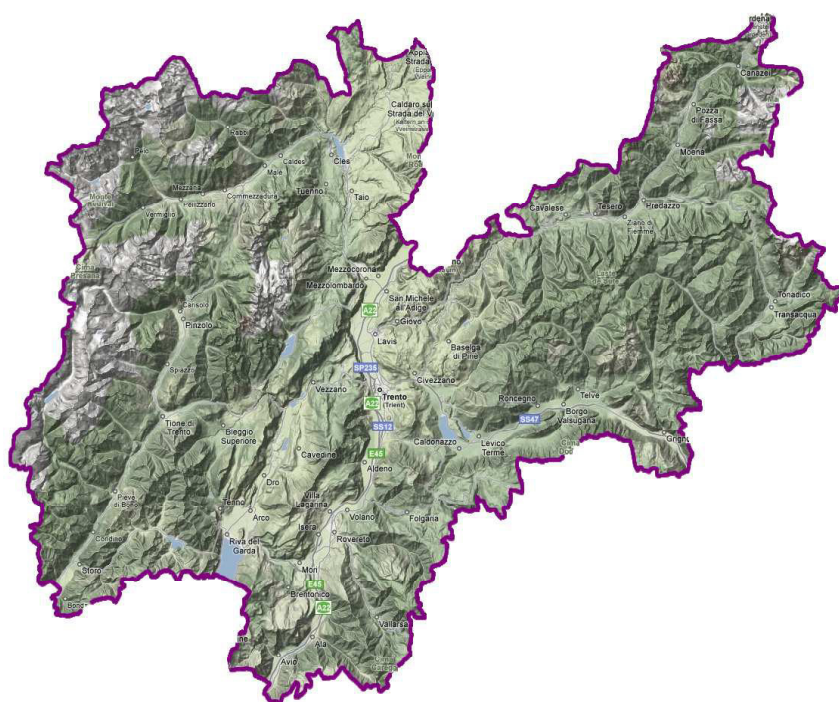


**PROVINCIA AUTONOMA DI TRENTO**  
SERVIZIO GEOLOGICO - UFFICIO STUDI SISMICI E GEOTECNICI

# TRENTINO SEISMOMETRIC NETWORK

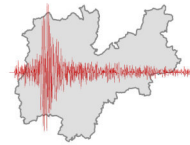
OCTOBER  
DECEMBER  
2016



QUARTERLY BULLETIN



**PROVINCIA AUTONOMA DI TRENTO**  
**Servizio Geologico**  
**Ufficio Studi Sismici e Geotecnici**



### Important information

All the localizations reported in this Seismic Catalogue are the result of best solutions which are obtained using seismic phases from stations of different Seismometric Networks.

In particular, data are from the following national/regional Seismometric Networks (SN) operating in the NE Alps area:

- Friuli and Veneto SN
- INGV Italian National SN
- MedNet SN
- NE Italy SN (broadband)
- Austrian SN
- Südtirol SN

The Staff of the PAT Seismometric Network (ST)

<http://www.protezionecivile.tn.it/territorio/Sismologia/>

# TRENTINO SEISMOMETRIC NETWORK

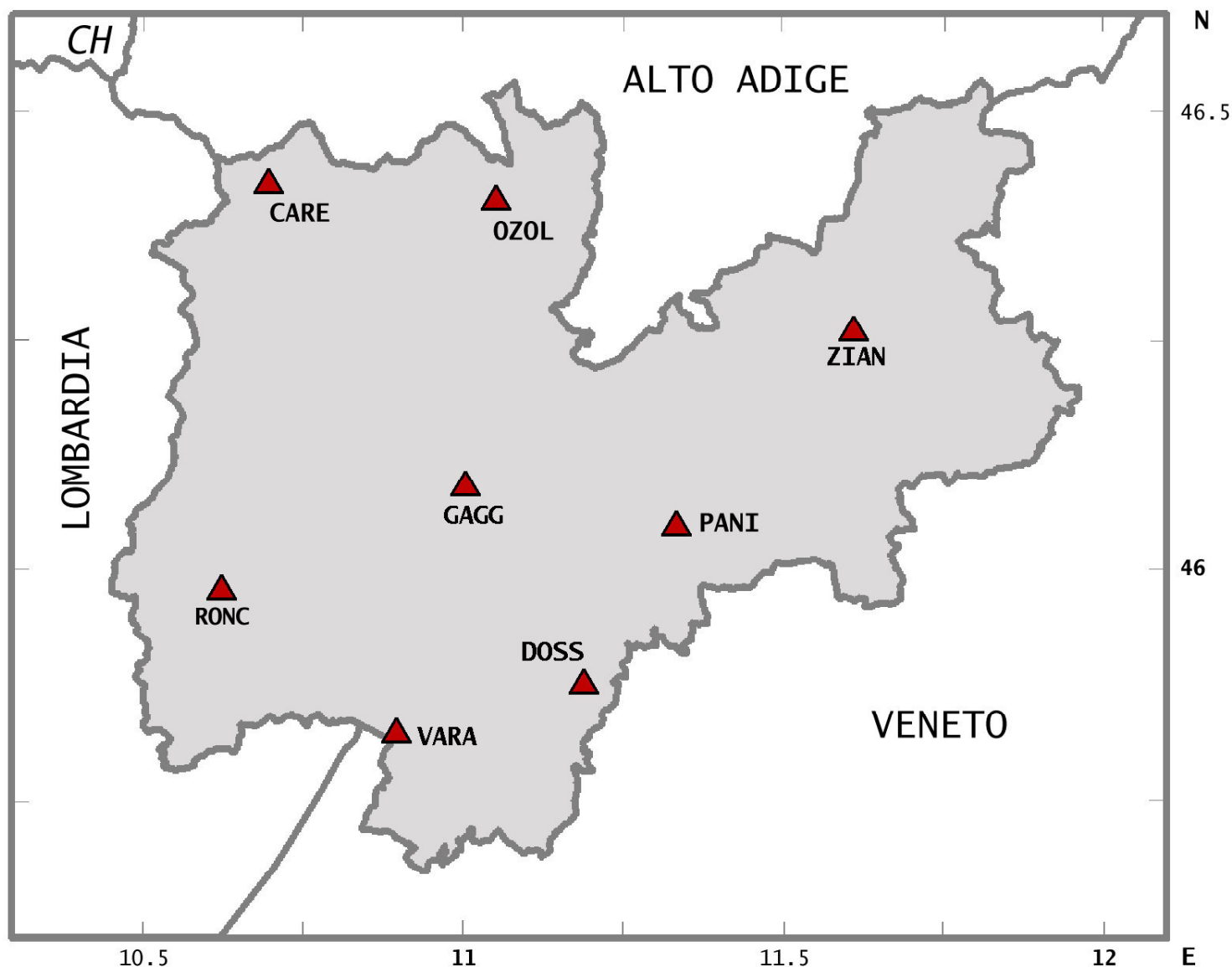
PROVINCIA AUTONOMA DI TRENTO

*Servizio Geologico - Ufficio Studi Sismici e Geotecnici*

Via Vienna, 17 - 38121 Trento - ITALIA

TEL +39 0461 492521 - FAX +39 0461 492525

e-mail: [infoeq@retesismicatrento.org](mailto:infoeq@retesismicatrento.org)



RONC	Roncone	45.9802	10.6228	1913
VARA	Monte Varagna	45.8260	10.8965	1735
DOSS	Dosso del Sommo	45.8808	11.1884	1660
PANI	Monte Panarotta	46.0501	11.3341	1983
OZOL	Monte Ozolo	46.4040	11.0518	1219
CARE	Lago del Careser	46.4252	10.6945	2605
GAGG	Monte Gaggia	46.0835	10.9587	1617
ZIAN	Ziano di Fiemme	46.2764	11.5632	1154

# EVENT HEADER

## Program for earthquake parameters : Hypoellipse 2.0

**Date** : origin date of event

**Time** : origin time of event  
(Greenwich Mean Time)

**Geographical Coordinates** : hypocentral coordinates  
**LAT N, LON E and Depth** (degrees and km)

**Magnitude** : MA : mean amplitude magnitude  
MD : mean duration magnitude

**Location Errors** : az1 : azimuth of axis 1 of error ellipsoid (deg.)  
dp1 : dip of axis 1  
se1 : length of ellipsoid semiaxis 1 (km)  
az2 : azimuth of axis 2 of error ellipsoid (deg.)  
dp2 : dip of axis 2  
se2 : length of ellipsoid semiaxis 2 (km)  
q : either error ellipsoid quality  
A : very good  
B : good  
C : poor  
D : bad

**RMS** : root mean square of residual

**Type (of event)** : 0 : local or near  
10 : near/remote  
1 to 3 : explosions (see Notes)

**Epicentral Area** : town,village or geographical zone;  
between brackets Italian County or European Count.  
station code failing hypocentral location

**Notes** : expl?? uncertain explosion  
expl? probable explosion  
expl! explosion  
data from other seismological centers :  
(N) is the NEIC (USGS)  
(O) is the INOGS-CRS (N-E Italy Seismic Network)  
(I) is the INGV (Rome)  
(S) is the Swiss Seismological Service  
(G) is the GFZ (Potsdam)

## STATION DATA

**st\_name** : station code  
           RONC is 3D station  
           VARA is 3D station  
           DOSS is 3D station  
           PANI is 3D station  
           OZOL is 3D station  
           CARE is 3D station  
           GAGG is 3D station  
           ZIAN is 3D station

**p\_rem** : P remark : E = emersion; I = impetus  
**m** : first motion direction of P-arrival:  
       C = compression; D = dilatation

**w\_p** : P-phase weighth code:  
       0 = full weighth; 1 to 3 = partial weighth; 8 = no weighth

**time\_s** : time of P-arrival (HH-MM-SS)  
**dist** : distance (km)  
**azm** : azimuth from epicenter to station (degrees)  
**s\_sec** : seconds of S-arrival  
**w\_s** : S-phase weighth code (see w\_p for explanation)  
**ain** : angle of ray leaving hypocenter (degrees)  
**mx\_amp** : maximum peak-to-peak amplitude (mm)  
**per** : period of maximum amplitude (seconds)  
**p\_calc** : P travel time computed  
**p\_std** : P standard error  
**cf** : corrected first motion symbol  
**f\_p time** : F-P time interval for f\_mag (seconds)  
**p\_res** : residual of P-arrival (seconds)  
**s\_std** : S standard error  
**s\_res** : residual of S-arrival (seconds)  
**x\_mag** : local Richter magnitude for amplitude signal  
**f\_mag** : duration magnitude calculated according to empirical equation  
           (Rebez, Renner, Slejko - 1984)  
            $f\_mag = a + b \log(t) + c \cdot d$   
           t = average duration      d = average epicentral distance  
           a, b and c = empirical costant

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

01/10/2016	00:19:45,11	46,6525	10,0615	4,07	0,6		0	0	0,5	90	0	0,5	C	0,08	0	BRAIL [CH]					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
CARE	e		2	00:19:54.64	55	117				94						0,11			0		

01/10/2016	23:18:24,51	,	,											10	CHAMONIX [F]	M 3.4(S)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
RONC			3	23:18:24.51			59,68	3							211					
CARE			3	23:18:26.65			62,28	3							211					
VARA			3	23:18:27.80			62,91	2							211					
GAGG			3	23:18:28.22			63,6	3							211					
DOSS			3	23:18:29.81			68,34	3							212					
OZOL			3	23:18:30.05			71,04	3							211					
PANI			3	23:18:31.58			70,02	3							211					
ZIAN			2	23:18:34.17			75,63	3							213					

02/10/2016	13:36:42,93	45,8036	10,9981	8,16	0,8		0	0	0,7	90	0	0,7	B	0,15	0	BRENTONICO (TN)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
VARA	i	c	2	13:36:44.55	8,3	287	46,56	2	135							-0,37		0,09	0,6		
DOSS	e		2	13:36:46.04	17,1	60	48,89	3	116							-0,12		0,2	0,9		

02/10/2016	13:36:44,56	,	,											0	VARA,DOSS					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	c	1	13:36:44.56			46,37	1							45					
DOSS	i	d	2	13:36:46.04			49,04	2							44					

02/10/2016	23:48:02,97	,	,											10	ASCOLI PICENO				M 3.4(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			3	23:48:02.97											219							
VARA			2	23:48:03.11			43,62	3							226							
PANI			2	23:48:04.08			46,14	3							221							
ZIAN			2	23:48:06.09			48,87	3							225							
GAGG			2	23:48:06.64			50,31	3							220							
RONC			2	23:48:06.72			51,47	3							224							
OZOL			2	23:48:10.00			57,19	3							220							
CARE			3	23:48:12.41			60,32	3							218							

03/10/2016	06:44:11,59	,	,											10	GOESCHENEN [CH]			M 3.3(S)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	06:44:11.59			31,98	2							213					
RONC			2	06:44:13.96			36,1	2							215					
OZOL			3	06:44:16.73											216					
GAGG			3	06:44:17.84			41,73	2							214					
VARA			3	06:44:18.45			43,54	3							214					
DOSS			2	06:44:21.96			48,92	2							212					
PANI			3	06:44:21.98			50,1	3							216					
ZIAN			3	06:44:24.86											211					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA			NOTES	
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q							
03/10/2016	07:22:47,68	45,8331	11,7008	9,14	1,4		0	0	0,5	90	0	0,5	B	0,16	0	CONCO (VI)			M 1.8(O)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e		2	07:22:54.40	37,3	310	59,17	2	104							0,15		-0,2	1,3	
DOSS	e	d	2	07:22:54.71	40,1	277	59,87	2	103							-0,01		-0,33	1,3	
ZIAN	e		2	07:22:56.68	50,4	348			100							0,24			1,4	
VARA	e		2	07:22:58.64	62,5	269			98							0,16			0	
GAGG	e		2	07:22:58.81	63,9	296			98							0,09			1,8	
03/10/2016	10:27:23,48	45,5223	10,2813	13,31	1,2		0	0	3,4	90	0	3,4	D	0,15	0	BRESCIA				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
RONC	e		2	10:27:33.56	57,5	28			103							0			1,2	
03/10/2016	14:59:42,52	,	,												0	CARE				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	i	d	0	14:59:42.52			44,94	1							28					
03/10/2016	15:20:48,78	,	,												0	CARE				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	i	d	1	15:20:48.78			51,17	1							31					
04/10/2016	02:47:59,19	46,6221	10,7990	3,69	1,3		0	0	0,6	90	0	0,6	C	0,25	0	SILANDRO (BZ)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	i	c	0	02:48:03.32	23,3	200	6,03	2	99							0,09		-0,35	1,3	
OZOL	e	d	1	02:48:04.73	31,1	141	8,51	2	97							0,18		-0,21	1	
GAGG	e		2	02:48:09.61	61,1	168			93							-0,05			1,4	
ZIAN	e		2	02:48:11.48	70,2	123			93							0,28			0	
04/10/2016	06:05:38,99	,	,												0	CARE				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	i	d	1	06:05:38.99			41,3	1							34					
04/10/2016	08:28:49,50	45,7328	10,1198	27,12	1,2		0	0	6,5	90	0	6,5	D	0,25	0	GARDONE VALTR. (BS)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
RONC	e		2	08:28:58.82	47,8	55			108							0,24			1,1	
04/10/2016	08:37:57,31	,	,												10	ZUOZ [CH]			M 1.6(S)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE			2	08:37:57.31			65,19	2							92					
RONC			3	08:38:03.15			14,04	3							93					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

04/10/2016	10:49:57,62	45,5620	11,3945	6,17	2,3		0	0	0,9	90	0	0,9	C	0,24	0	ARZIGNANO (VI)			M 2.7(O)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
DOSS	i	d	2	10:50:04.54	38,8	336	9,97	2	99							0,2		0,39	2,3		
VARA	e	d	1	10:50:06.12	48,6	307	12,21	2	97							0,12		-0,33	1,8		
PANI	e		2	10:50:07.14	54,5	355			96							0,14			2,1		
GAGG	e	d	2	10:50:09.18	67,1	330			95							0,03			2,3		
RONC	e	d	2	10:50:10.34	76	308			95							-0,31			2,3		
ZIAN	e		2	10:50:11.38	80,5	9			94							-0,04			2,4		
OZOL	e		2	10:50:14.23	97,2	344			94							-0,04			2,6		
CARE	e	d	2	10:50:16.40	110	331			93							-0,06			0		

04/10/2016	12:42:29,87	,	,											10	MACERATA				M 3.4(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			2	12:42:29.87											228							
VARA			3	12:42:30.35			70,23	3							228							
PANI	e	d	2	12:42:30.95			71,33	3							227							
ZIAN			3	12:42:33.05											227							
RONC			2	12:42:33.31			78,48	3							228							
GAGG	i	d	2	12:42:33.74			76,63	3							226							
OZOL			3	12:42:36.59			84,87	3							226							
CARE	i	d	2	12:42:39.44											229							

04/10/2016	15:41:59,92	46,1293	11,1919	5,49	1,2		0	0	0,3	90	0	0,3	B	0,05	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e	c	1	15:42:02.49	14,1	128				111						-0,01			1,1	
GAGG	e	c	2	15:42:03.18	18,7	254				106						-0,08			1,1	
DOSS	i	c	1	15:42:04.71	27,7	181				101						-0,04			1,1	
ZIAN	e		2	15:42:05.67	33	60				99						0,03			1,1	
VARA	e		2	15:42:07.11	40,8	214				98						0,16			0	
CARE	e		2	15:42:08.58	50,3	311				96						0,01			0	

05/10/2016	01:44:39,32	46,0173	10,4415		5,7	1,3		0	0	1	90	0	1	C	0,17	0	CAPO DI PONTE (BS)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
RONC	i	c	1	01:44:42.01	14,6	106				111						0			0,8		
GAGG	e		2	01:44:46.54	40,7	80	51,95	2	98							0,19		0,12	1,2		
VARA	e		2	01:44:46.54	41,2	121	51,98	3	98							0,11		0	1,6		
CARE	e		2	01:44:48.09	49,4	24	54,21	2	97							0,27		-0,24	1,7		

05/10/2016	02:48:05,19	46,0750	11,8463	9,56	1,2		0	0	0,7	90	0	0,7	B	0,18	0	FELTRE (BL)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
ZIAN	e		2	02:48:10.91	31,3	316	15,42	2	107							0,13		0,28	1		



# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

05/10/2016	06:27:18,78	,	,											10	CONF. ITALIA-AUSTRIA				M 2.2(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
OZOL	e	d	1	06:27:18.78			29,3	2							120							
CARE	e	d	1	06:27:20.05			31,61	2							122							
ZIAN	e	d	1	06:27:20.85			33,39	2							121							
PANI			2	06:27:24.77			40,46	2							121							
GAGG			2	06:27:24.98			40,66	2							120							
RONC			3	06:27:27.70			46,81	3							120							
DOSS	e	d	2	06:27:28.22			45,48	2							120							
VARA			3	06:27:30.35			49,04	2							120							

05/10/2016	12:30:28,20	,	,												10	RIETI	M 3.2(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	12:30:28.20			69,52	3							212					
DOSS			3	12:30:28.34			70,61	3							210					
PANI			3	12:30:29.61			72,47	3							211					
RONC			3	12:30:31.34			74,73	3							210					
GAGG			3	12:30:31.62			76,53	3							210					
CARE			3	12:30:37.26											209					

05/10/2016	17:38:37,49	,	,											0	RONC					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
RONC			3	17:38:37.49			38,45	1							30					

05/10/2016	22:56:59.03	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	i	d	0	22:56:59.03			60,61	1							31					

06/10/2016	08:07:05,03	46,7455	10,4871	7,34	1,2		0	0	0,9	90	0	0,9	C	0,2	0	MALLES VENOSTA (BZ)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
CARE	i	c	1	08:07:11.98	39,2	156	16,78	2	101							0,14		-0,37	0		

06/10/2016	10:04:12.62	46,1371	11,2116	7,59	0,9		0	0	0,4	90	0	0,4	B	0,04	2	FORNACE (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	2	10:04:15.28	13,5	135				119						0,01			0,8	
GAGG	i	c	1	10:04:16.32	20,4	253				110						-0,03			0,9	
DOSS	e		2	10:04:17.63	28,6	184				105						-0,06			0,9	
ZIAN	e		2	10:04:18.14	31,2	60				104						0,02			0,9	
CARE	e		2	10:04:21.40	50,9	309				98						-0,02			0	

06/10/2016	10:12:39,97	46,1376	11,1853	5,77	0,9		0	0	0,6	90	0	0,6	C	0,06	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	2	10:12:42.72	15,1	130				111						-0,01			0,7	
GAGG	e		2	10:12:43.29	18,5	251				107						0			0	
DOSS	e		2	10:12:44.96	28,6	179				101						-0,01			0,9	
ZIAN	e		2	10:12:45.84	33	62				100						0,14			0,9	

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

06/10/2016	10:19:39,38	46,1331	11,1803	3,87	1,2		0	0	0,3	90	0	0,3	C	0,04	2	ALBIANO (TN)	EXPL?			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	2	10:19:42.03	15,1	127				104						-0,01			1	
GAGG	e	c	2	10:19:42.55	18	252				102						0,02			0,9	
DOSS	e	c	2	10:19:44.22	28,2	179				98						-0,02			1,1	
OZOL	e		2	10:19:44.78	31,6	342				97						-0,05			1,1	
ZIAN	e	c	2	10:19:45.11	33,6	62				97						-0,05			0,9	
CARE	e		2	10:19:47.84	49,3	311				94						0			1,8	

06/10/2016	10:52:44,06	46,2673	11,1876	13,62	1,2		0	0	1	90	0	1	C	0,08	0	PREDAIA (TN)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
OZOL	e		2	10:52:48.03	18,4	325	50,89	2	127							0,06		-0,13	1,5		
ZIAN	e		0	10:52:49.53	29	88	53,8	2	115							0		0	0,9		
CARE	e		2	10:52:51.69	41,6	295	57,29	3	108							0,15		-0,09	1,5		

06/10/2016	13:17:09,19	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	i	c	0	13:17:09.19			10,16	1							35					

06/10/2016	14:09:08,37	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	d	1	14:09:08.37			9,99	1							27					

06/10/2016	14:09:39,65	46,1218	11,2358	4,05	1		0	0	0,1	90	0	0,1	C	0,01	2	BASELGA DI P. (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	2	14:09:41.66	11	136				110						0			1,1	
GAGG	e		2	14:09:43.45	21,9	259				100						-0,01			0,9	
DOSS	e		2	14:09:44.34	27,1	188				98						-0,01			1,1	

06/10/2016	15:20:55,87	46,1430	11,1798	3,26	1,4		0	0	0,5	90	0	0,5	C	0,12	2	ALBIANO (TN)				EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
PANI	i	c	2	15:20:58.63	15,8	131				102						0,01			1,5		
GAGG	i	c	2	15:20:59.03	18,3	249				100						-0,02			1,3		
DOSS	i	c	1	15:21:00.84	29,2	179				96						-0,06			1,5		
OZOL	e	c	2	15:21:01.04	30,6	341				96						-0,09			1,4		
ZIAN	e		2	15:21:01.56	33,1	63				96						0			1,2		
VARA	e		2	15:21:03.16	41,5	212				94						0,17			0		
CARE	e	c	2	15:21:04.20	48,6	310				94						0			1,7		

06/10/2016	16:12:52,72	46,1388	11,1891	7	0,9		0	0	0	90	0	0	C	0,02	2	ALBIANO (TN)				EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
PANI	i	c	2	16:12:55.54	14,9	131				115						0,01			0,8		
GAGG	e		2	16:12:56.14	18,9	251				110						-0,01			0,9		
DOSS	e		2	16:12:57.76	28,8	180				104						-0,02			0		

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

06/10/2016	16:19:05,47	46,1400	11,1878	7	0,9		0	0	0	90	0	0	C	0,02	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e		2	16:19:08.32	15,1	131				115						0,01			0,8	
GAGG	e		2	16:19:08.88	18,8	251				110						-0,02			1	
DOSS	e		2	16:19:10.53	28,9	180				104						-0,02			1	

06/10/2016	16:34:01,18	45,7804	11,0903	10,96	0,9		0	0	0,4	90	0	0,4	B	0,13	0	VALLARSA (TN)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
DOSS	e	2		16:34:04.28	13,5	35	6,5	2	129							0,14		0,04	0,6		
VARA	e	2		16:34:04.57	15,9	289	7,13	2	125							0,09		0,08	1,1		
PANI	e	2		16:34:07.41	35,5	32				107						-0,12			0		
GAGG	e	2		16:34:07.56	35,2	343	12,1	2	107							0,08		-0,28	0		

06/10/2016	22:04:05,41	45,5453	10,4118	12,68	1,2		0	0	0,4	90	0	0,4	B	0,07	0	BEDIZZOLE (BS)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
VARA	e	2	22:04:14.12	49	50	21,04	2	105								0,06		0,24	0		
RONC	e	2	22:04:14.33	51,1	19			104								-0,08			1,4		

07/10/2016	07:27:22,29	,	,												10	JUF [CH]				M 3.9(S)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag			
CARE	i	d	1	07:27:22.29			33,16	1							305								
RONC			2	07:27:24.70			37,3	2							308								
OZOL	e	d	1	07:27:26.76			41,73	1							306								
GAGG	e	d	1	07:27:27.37			41,97	2							305								
VARA	e	d	2	07:27:29.36			45,64	3							306								
PANI	e	d	2	07:27:32.15			49,88	2							303								
DOSS			2	07:27:32.27			49,53	3							301								
ZIAN			3	07:27:34.73			53,42	3							307								

07/10/2016	07:47:00,72	,	,											10	ASCOLI PICENO				M 3.2(I)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	07:47:00.72			39,18	3							215					
DOSS			3	07:47:00.82			40,38	3							216					
PANI			3	07:47:02.30			42,83	3							213					
GAGG			3	07:47:04.78			45,47	3							214					
RONC			3	07:47:05.21			47,96	3							211					
OZOL			3	07:47:07.69			52,25	3							213					
CARE			3	07:47:10.66											213					

07/10/2016	09:42:44,05	,	,											10	AUSTRIA	M 2.6(G)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
OZOL			3	09:42:44.05											150					
GAGG			3	09:42:48.05			68,47	3							148					
PANI			3	09:42:48.19			69,91	3							151					
RONC			3	09:42:50.17											151					
DOSS			3	09:42:51.10			73,68	2							145					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

08/10/2016	02:32:27,32	,	,											10	FUSIO [CH]	M 2.6(S)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE			3	02:32:27.32			47,84	3							173					
RONC	i	c	1	02:32:27.52			48,16	2							173					
GAGG	i	c	2	02:32:31.36			54,68	2							171					
VARA	e	c	2	02:32:31.43			58,14	3							173					
OZOL			3	02:32:31.81			55,85	3							171					
DOSS			3	02:32:35.72			63,02	3							171					
PANI			3	02:32:36.15											170					
ZIAN			3	02:32:39.26											173					

08/10/2016	03:20:18,64	46,7363	10,3830		9,8	0,9		0	0	0,4	90	0	0,4	B	0,09	0	MONPICCO (BZ)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
CARE	e		2	03:20:26.07	42,2	145	31,7	2	103							0,02		-0,13	1,2		

08/10/2016	08:15:57,82	,	,											10	ASCOLI PICENO				M 3.2(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			3	08:15:57.82			98,46	3							186							
VARA			3	08:15:58.09			99,6	3							190							
PANI			2	08:15:58.95			102,2	3							186							
ZIAN			3	08:16:01.02											191							
GAGG			3	08:16:01.40											185							
RONC			3	08:16:01.61			45,57	3							188							
OZOL			3	08:16:04.61											184							
CARE			3	08:16:07.23											189							

08/10/2016	09:31:44,06	45,7731	11,0740	12,8	2,5		0	0	0,5	90	0	0,5	B	0,22	0	ALA (TN)				M 2.8(O)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
DOSS	i	d	1	09:31:47.70	14,9	37	50,09	2	131							0,28		0,06	2,7		
VARA	i	c	1	09:31:47.71	15	293	50,1	2	130							0,28		0,04	2,1		
GAGG	i	d	2	09:31:50.80	35,6	345	55,31	2	110							0,27		-0,27	2,8		
PANI	i	d	1	09:31:50.97	36,9	33	55,61	2	109							0,23		-0,34	2,3		
RONC	i	c	1	09:31:51.55	42	303	57,22	2	107							-0,01		-0,19	2,3		
ZIAN	i	d	1	09:31:55.81	67,6	34			101							0			2,5		
OZOL	e		2	09:31:56.36	70,1	359			100							0,12			2,3		
CARE	e	d	2	09:31:57.72	78	338			99							0,14			2		

08/10/2016	12:02:14,68	45,7931	10,6586	6,67	0,7		0	0	0,3	90	0	0,3	B	0,04	0	VALVESTINO (BS)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
VARA	e		2	12:02:18.17	18,8	79	20,73	2	109							0,07		-0,03	0,8		
RONC	e		2	12:02:18.43	21	352	21,41	2	108							-0,02		0,01	0,5		

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

08/10/2016	12:19:59,32	,	,											10	RIETI			M 3.5(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			2	12:19:59.32			101,1	3							239					
VARA			3	12:20:00.05			41,29	3							242					
PANI			2	12:20:00.78			42,56	2							239					
GAGG			2	12:20:02.80			47,57	3							238					
RONC			3	12:20:02.82			48,36	2							240					
ZIAN	i	c	2	12:20:02.94			48,15	3							242					
OZOL	e	c	2	12:20:06.52			55,72	3							237					
CARE	e	c	2	12:20:08.73			57,44	3							238					

08/10/2016	12:41:55,64	,	,											10	RIETI				M 3.2(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			3	12:41:55.64			96,18	3							213							
VARA			3	12:41:55.70			97,45	3							213							
PANI			3	12:41:57.04			101,4	3							213							
ZIAN			3	12:41:59.07			104,1	3							214							
GAGG			3	12:41:59.13			103,2	3							213							
RONC			3	12:41:59.34			104,9	3							211							
OZOL			3	12:42:02.92			52,15	3							211							
CARE			3	12:42:05.09											212							

08/10/2016	18:12:05,77	,	,											10	RIETI				M 3.9(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS	e	c	2	18:12:05.77			46,97	3							312							
VARA	e	c	2	18:12:06.03			48,7	3							316							
PANI	e	c	1	18:12:07.37			50,67	3							315							
GAGG	e	c	2	18:12:09.23			55,59	3							313							
RONC	e	c	2	18:12:09.43			56,2	3							314							
ZIAN	e	c	1	18:12:09.49			54,93	3							315							
OZOL	e	c	2	18:12:13.13			61,5	3							313							
CARE	e	c	2	18:12:15.52			63,36	3							312							

08/10/2016	21:38:03,18	,	,											10	C. LIGURE C OCCID.	M 3.1(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
RONC	e	c	2	21:38:03.18											211					
VARA			3	21:38:03.81											212					
DOSS			3	21:38:05.99											212					
GAGG	e	c	2	21:38:06.11			40,52	3							212					
PANI			3	21:38:08.21			46,36	3							210					
CARE			3	21:38:09.42											212					
OZOL			3	21:38:11.75											209					
ZIAN	e	c	2	21:38:12.27											212					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

09/10/2016	02:48:25,92	,	,											10	RIETI	M 3.1(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			3	02:48:25.54																
VARA	e	d	2	02:48:25.92			67,88	3												
PANI	i	d	3	02:48:26.72			69,62	3												
ZIAN			2	02:48:28.57			74,54	3												
RONC			3	02:48:28.94			75,02	3												
GAGG	i	d	3	02:48:29.16			74,17	3												
OZOL	i	d	2	02:48:32.47			82,14	3												
CARE			3	02:48:34.75																

09/10/2016	04:43:38,64	,	,											10	RIETI	M 3.6(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	04:43:38.64			81,23	3												
DOSS			3	04:43:38.87																
PANI	e	c	2	04:43:39.89			82,12	3												
ZIAN	i	c	1	04:43:42.16			89,3	3												
GAGG	e	c	2	04:43:42.23			87,03	3												
RONC			2	04:43:42.36			88,65	3												
OZOL	e	c	1	04:43:45.80			95,96	3												
CARE	i	c	1	04:43:48.33			96,9	3												

09/10/2016	10:33:59,82	,	,											10	RIETI	M 2.8(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			3	10:33:59.82			102,5	3												
VARA			2	10:33:59.98			102,1	3												
PANI			3	10:34:02.21			44,58	3												
GAGG			3	10:34:03.15			48,38	3												
RONC			3	10:34:03.18			48,01	3												
ZIAN			3	10:34:03.65			48,63	3												
OZOL			3	10:34:07.02			56,47	3												
CARE			3	10:34:09.50																

10/10/2016	15:39:40,86	46,1490	11,1841	7	1,2		0	0	0	90	0	0	C	0,01	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e		2	15:39:43.85	16	133				114						0,01			1	
GAGG	e		1	15:39:44.30	18,9	247				110						-0,01			1,3	
DOSS	e		2	15:39:46.10	29,9	179				103						-0,02			1,2	

11/10/2016	07:33:45,86	,	,											10	ASCOLI PICENO			M 3.0(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	07:33:45.86			86,13	3												
DOSS			3	07:33:46.62																
PANI			3	07:33:47.10			88,63	3												
GAGG			3	07:33:49.90																
RONC			3	07:33:50.11																
OZOL			3	07:33:52.55			99,48	3												
CARE			3	07:33:55.24																

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

11/10/2016	09:24:43,84	45,8971	10,9268	2,9	0,9		0	0	0,8	90	0	0,8	C	0,14	0	RONZO-CHIENIS (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e		2	09:24:45.13	8,3	197	46,64	2	109							-0,21		0,14	0	
DOSS	e		2	09:24:47.46	20,4	95	50,09	2	98							0,09		-0,03	0,9	
GAGG	e		2	09:24:47.60	20,9	7	50,39	2	98							0,16		0,14	0,8	

11/10/2016	13:54:46,94	45,7901	10,9893	12,04	0,9		0	0	0,5	90	0	0,5	B	0,17	0	ALA (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	13:54:49.68	8,2	299	51,89	2	146							0,25		0,52	0,7	
DOSS	e		2	13:54:50.69	18,4	57	53,57	2	123							-0,01		-0,07	0,7	
GAGG	i	c	1	13:54:52.90	32,7	356	57,22	2	110							0,01		-0,32	1,1	
RONC	e		2	13:54:53.35	35,5	307	58,37	2	109							0,01		0,04	0,9	

11/10/2016	21:25:04,42	,	,											10	PERUGIA			M 3.2(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	21:25:04.42			44,07	3							212					
DOSS			2	21:25:04.68											208					
PANI			3	21:25:06.46											210					
GAGG			3	21:25:08.20											210					
RONC			3	21:25:08.43			52,7	3							211					
ZIAN			2	21:25:08.70			51,01	3							215					
OZOL			2	21:25:12.24			59,46	3							210					
CARE			3	21:25:14.33											206					

11/10/2016	21:46:46,41	45,5590	11,1846	0,88	1		0	0	1,5	90	0	1,5	D	0,18	0	TREGNAGO (VR)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS	e		2	21:46:52.62	35,7	1	57,4	2	91							0,11		0,13	1,1	
VARA	e		2	21:46:52.97	37,2	323	57,71	2	91							0,19		-0,03	0	

12/10/2016	01:19:06,38	45,8043	10,9946	13,26	0,8		0	0	0,4	90	0	0,4	A	0,15	0	BRENTONICO (TN)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
VARA	e		2	01:19:09.24	8	288	11,58	2	149							0,21		0,49	0,7		
DOSS	e		2	01:19:10.14	17,3	61	12,95	2	128							0,04		-0,05	0,7		
GAGG	e	c	2	01:19:12.24	31,2	355	16,53	2	113							0,07		-0,15	1,1		
RONC	e		2	01:19:12.84	34,9	304	17,75	2	111							0,08		0,01	0,8		

12/10/2016	10:00:32,34	46,1396	11,1836	0,34	1,2		0	0	0,6	90	0	0,6	C	0,16	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e	c	1	10:00:34.92	15,3	130			91							-0,04			1,5	
GAGG	e		2	10:00:35.43	18,5	250			91							-0,07			1,3	
DOSS	e	c	1	10:00:37.14	28,9	179			91							-0,14			1,3	
OZOL	e		2	10:00:37.72	31	341			91							0,07			1,3	
ZIAN	i	c	1	10:00:37.88	33	63			91							-0,11			1,1	
VARA	e		2	10:00:39.52	41,4	213			90							0,11			0	
CARE	e		2	10:00:40.61	49,1	310			90							-0,12			0	
RONC	e		2	10:00:40.67	46,8	248			90							0,32			1,2	

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

12/10/2016	23:31:56,57	45,5066	10,9913	13,51	1,5		0	0	0,5	90	0	0,5	C	0,16	0	GREZZANA (VR)			M 2.1(O)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	d	1	23:32:03.36	36,3	348	8,45	2	110							0,17		0,1	1,4	
DOSS	e	d	2	23:32:04.62	44,3	20	10,08	2	107							0,14		-0,56	1,6	
RONC	e	d	2	23:32:06.96	60	331				103						-0,13			1,4	
GAGG	e		2	23:32:07.85	64,2	358				102						0,07			0	
PANI	e		2	23:32:08.14	66,1	24				102						0,03			1,3	

13/10/2016	04:57:44,16	,	,											10	PERUGIA				M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			2	04:57:44.16			83,8	3							210							
DOSS			3	04:57:44.31											206							
PANI	i	c	3	04:57:45.97			89,1	3							206							
ZIAN			3	04:57:48.09											208							
RONC			2	04:57:48.26			92,52	3							207							
GAGG			3	04:57:48.37											204							
OZOL			2	04:57:51.72											205							
CARE			3	04:57:53.57											206							

13/10/2016	08:55:55,62	45,5533	11,3800	11,35	1,4		0	0	0,7	90	0	0,7	B	0,12	0	ARZIGNANO (VI)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
DOSS	e		2	08:56:02.70	39,2	338	7,98	2	106							0,09		-0,08	1,1		
VARA	e	d	2	08:56:04.28	48,3	309	10,46	2	103							0,17		-0,27	0		

13/10/2016	10:10:48,13	46,1821	11,2008	8,86	1,2		0	0	0,3	90	0	0,3	B	0,06	2	CEMBRA LISIGN. (TN)	EXPL? M 1.8(O)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e	c	1	10:10:51.52	17,9	145				116						-0,03			1,1	
GAGG	e	c	2	10:10:52.15	21,7	240				112						0,01			1,2	
OZOL	e	d	2	10:10:52.96	27,1	335				108						-0,05			1	
ZIAN	i	c	1	10:10:53.46	29,8	69				107						0			1,1	
DOSS	i	c	2	10:10:54.15	33,6	182				105						0,07			1,2	
CARE	e		2	10:10:56.39	47,2	305				101						0,04			1,3	

13/10/2016	15:01:58,95	46,1430	11,1680	4,88	1,3		0	0	0,7	90	0	0,7	C	0,15	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	1	15:02:01.74	16,5	128				107						-0,14			1,2	
GAGG	e		2	15:02:02.14	17,5	248				106						0,09			1,1	
DOSS	e	c	1	15:02:03.94	29,3	177				99						-0,08			1,2	
OZOL	e		2	15:02:04.30	30,3	343				99						0,11			1	
ZIAN	e		2	15:02:04.66	33,9	64				98						-0,14			1,2	
CARE	e		2	15:02:07.04	47,9	311				96						-0,14			1,6	

13/10/2016	22:18:36,86	46,5516	10,6921	5,67	1		0	0	1	90	0	1	C	0,09	0	CIMA VERTANA (BZ)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	i	c	1	22:18:39.46	14,1	178	41,49	2	112							0		-0,01	1	



# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

14/10/2016	04:10:17,51	,	,											10	RIETI	M 3.3(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			2	04:10:17.51			60,45	3							215					
VARA			2	04:10:17.76			59,31	2							219					
PANI			3	04:10:19.22			62,86	3							218					
ZIAN			2	04:10:21.03			64,86	3							218					
GAGG			2	04:10:21.14			66,05	2							215					
RONC			2	04:10:21.26			66,66	3							219					
OZOL	e	c	2	04:10:24.53			73,04	2							215					
CARE	e	c	3	04:10:27.03			76,52	3							212					

14/10/2016	05:32:44,41	46,6416	10,6323	6,93	1,6		0	0	0,7	90	0	0,7	B	0,24	0	LASA (BZ)	M 1.4(S)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	d	1	05:32:48.90	24,7	168	51,86	2	106							0,11		-0,34	0	
OZOL	e		1	05:32:51.79	41,7	129	57,04	2	99							0,16		-0,23	1,3	
RONC	e		2	05:32:57.06	73,5	181			95							0,04			1,7	

15/10/2016	07:12:46,70	46,7731	11,2655	6,67	1,7		0	0	0,6	90	0	0,6	C	0,25	0	S. LEONARDO P. (BZ)	M 2.2(O)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
OZOL	e		2	07:12:54.43	44,3	202	60,05	2	99							0,08		-0,27	1,7	
CARE	i	c	2	07:12:56.60	58,3	228			97							-0,13			2	
ZIAN	e		2	07:12:56.97	59,8	158			96							-0,01			1,6	
PANI	e		2	07:13:00.58	80,5	176			95							0,08			1,8	
GAGG	e		2	07:13:00.63	80,2	197			95							0,17			1,8	
DOSS	e		2	07:13:03.61	99,5	183			94							-0,13			1,9	

15/10/2016	18:40:40,40	46,6931	10,1623	7,49	1,1		0	0	1	90	0	1	C	0,17	0	VAL MUSTAIR [CH]							
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag			
CARE	e		2	18:40:49.41	50,7	126				98						0,25			1,2				

16/10/2016	09:33:31,42	,	,											10	RIETI				M 4.0(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS	e	c	2	09:33:31.42											314							
VARA	e	c	1	09:33:31.45			73,05	2							316							
PANI	e	c	1	09:33:32.96			75,89	3							316							
RONC			2	09:33:34.81			81,43	2							314							
GAGG	e	c	2	09:33:35.07			80,05	3							313							
ZIAN	e	c	2	09:33:35.32			78,96	3							315							
OZOL	e	c	2	09:33:38.91			87,53	3							314							
CARE			2	09:33:40.65			90,4	3							312							

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

16/10/2016	14:29:19,41	,	,											10	MACERATA				M 3.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA		2		14:29:19.41			58,59	3							214							
DOSS		3		14:29:19.80			59,11	3							213							
PANI		3		14:29:20.34			60,41	3							212							
ZIAN		2		14:29:22.48											215							
RONC		2		14:29:23.13			67,34	3							211							
GAGG		3		14:29:23.26			67,47	3							211							
OZOL		3		14:29:26.18			73,05	3							211							
CARE		3		14:29:28.96			76,11	3							212							

17/10/2016	07:42:18,05	46,1276	12,3786	12,12	1,7		0	0	0,4	90	0	0,4	B	0,12	0	PUOS D'ALPAGO (BL)				M 1.9(O)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
PANI	e	2		07:42:32.25	81,2	264				98						0,16			1,9		
DOSS	e	2		07:42:34.81	96,2	253				97						0,18			1,9		

17/10/2016	09:35:06,66	45,8621	11,7016	3,6	1		0	0	0,4	90	0	0,4	C	0,04	0	VALSTAGNA (VI)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e	2		09:35:12.84	35,3	306	17,37	2	96							0,11		-0,1	0	
DOSS	e	3		09:35:13.43	39,9	273	18,87	2	95							-0,08		0,03	0	
GAGG	e	2		09:35:17.35	62,6	293			93							-0,03			1,3	
VARA	e	2		09:35:17.42	62,7	266			93							0,03			0	

17/10/2016	12:25:10,08	46,3510	10,8530	8,36	1		0	0	0,6	90	0	0,6	B	0,11	0	MALE' (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
OZOL	e	2		12:25:13.21	16,4	69	15,7	2	117							-0,01		0,03	0,9	
GAGG	e	2		12:25:15.66	30,8	165	19,82	2	105							0,12		0,02	1	
RONC	e	1		12:25:17.92	44,8	203			101							0,04			1	

17/10/2016	14:52:01,87	46,1278	11,1910	3,03	0,8		0	0	0	90	0	0	C	0,02	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	1	14:52:04.33	14	128				102						0,01			0,7	
GAGG	e		2	14:52:05.07	18,6	255				99						-0,02			0,7	
DOSS	e		2	14:52:06.58	27,6	180				96						-0,03			0,8	

18/10/2016	07:43:47,83	45,8511	10,9498	14,78	0,7		0	0	1	90	0	1	B	0,17	0	MORI (TN)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
VARA	e	c	2	07:43:50.59	5	236	52,71	2	161							0,09		0,13	0		
DOSS	i	c	1	07:43:52.11	18,8	80	55,18	2	128							0,19		0,06	0,6		
GAGG	i	d	2	07:43:52.94	25,8	2	56,72	2	120							0,02		-0,17	0		

18/10/2016	10:10:23,16	46,1800	11,2085	0,22	0,8		0	0	0,4	90	0	0,4	C	0,07	2	CEMBRA LISIGN. (TN)	EXPL?			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e		2	10:10:26.04	17,4	146				91						-0,09			0,9	
GAGG	e	c	2	10:10:26.94	22,1	241				91						0			0,8	
OZOL	e	c	2	10:10:27.85	27,6	334				90						-0,03			1	
ZIAN	i	c	1	10:10:28.21	29,4	69				90						0,03			0,8	
DOSS	e	c	1	10:10:28.92	33,4	183				90						0,05			0,9	

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA		NOTES	
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q					

18/10/2016	16:27:00,54	46,1273	11,1833	4,71	1		0	0	0,5	90	0	0,5	C	0,05	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	2	16:27:03.15	14,5	126				108						0,01			1	
GAGG	e		2	16:27:03.68	18	254				105						-0,04			1,2	
DOSS	e		2	16:27:05.33	27,5	179				100						0,02			1	
ZIAN	e		2	16:27:06.26	33,7	61				98						-0,09			0,8	

18/10/2016	17:57:19,76	46,3598	10,8551	10,02	0,8		0	0	0,7	90	0	0,7	B	0,15	0	RABBI (TN)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
CARE	e		1	17:57:22.82	14,1	301	24,96	2	125							0,1		-0,07	0,8		
OZOL	e	c	1	17:57:22.97	15,9	72	25,66	2	122							0		0,18	0,7		
GAGG	e		2	17:57:25.75	31,7	165	29,68	2	108							0,3		-0,21	0		
RONC	e		2	17:57:27.69	45,8	203				102						-0,09			0,9		

18/10/2016	17:59:07,22	,	,											0	CARE,OZOL					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE			2	17:59:07.22			9,2	2							36					
OZOL	e	c	2	17:59:07.36			9,96	2							37					

18/10/2016	19:59:55,01	45,8953	11,8513	16,64	1,8		0	0	0,4	90	0	0,4	B	0,15	0	CAVASO D. TOMBA (TV)				M 2.4(O)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
PANI	e	d	1	20:00:03.11	43,6	293				111						0,12			1,9		
ZIAN	i	d	1	20:00:03.85	47,9	332				109						0,18			2,1		
DOSS	i	c	1	20:00:04.26	51,5	268				108						0,01			2		
GAGG	i	d	2	20:00:07.58	72,3	287				103						-0,1			2,2		
VARA	i	c	2	20:00:07.96	74,6	264				103						-0,11			1,6		
OZOL	e	c	2	20:00:09.60	83,7	312				101						0			1,9		
RONC	e		2	20:00:11.51	95,7	276				59						0,04			1,9		

18/10/2016	21:41:31,73	45,8686	11,7310	10,38	0,8		0	0	1,3	90	0	1,3	C	0,2	0	MONTE GRAPPA (VI)			M 0.8(O)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e		2	21:41:38.52	36,8	303	42,88	2	106							0,26		-0,48	1	
DOSS	e		2	21:41:39.19	42,1	272				104						0,04			1	
ZIAN	e		2	21:41:40.13	47,1	344				102						0,15			1	

19/10/2016	00:53:07,93	,	,											10	ASCOLI PICENO			M 3.0(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	00:53:07.93			48,96	3												189
DOSS			3	00:53:08.72			49,87	3												186
PANI			3	00:53:09.70			53,03	3												183
ZIAN			3	00:53:11.40			54,34	3												191
GAGG			3	00:53:12.00			57,01	3												187
RONC			3	00:53:12.29			56,66	3												188
OZOL			3	00:53:15.09			63,29	3												185
CARE			3	00:53:18.01			66,62	3												186

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

19/10/2016	01:20:56,19	46,6081	10,3426	8,43	0,8		0	0	0,4	90	0	0,4	C	0,05	0	VAL D'AVIGNA (SO)						
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
CARE	e	1		01:21:02.19	34	127	6,84	2	104							0		-0,02	0			

19/10/2016	09:59:45,84	46,1335	11,1810	0,57	1,2		0	0	0,1	90	0	0,1	D	0,01	2	ALBIANO (TN)	EXPL?			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e	c	2	09:59:48.40	15	128			92							-0,01			1,3	
GAGG	i	c	2	09:59:48.92	18,1	252			92							-0,01			1,1	
DOSS	i	c	2	09:59:50.65	28,2	179			91							-0,01			1,2	
OZOL	e		2	09:59:51.25	31,6	342			91							0,01			1,2	

20/10/2016	08:24:18,88	45,6780	10,3540	17,57	1,3		0	0	1,5	90	0	1,5	C	0,04	0	VESTONE (BS)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
RONC	e		1	08:24:26.23	39,6	32				114						-0,05			1		

20/10/2016	10:12:51,15	46,1831	11,2009	5,9	1		0	0	0,4	90	0	0,4	C	0,07	2	CEMBRA LISIGN. (TN)	EXPL?			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e	c	1	10:12:54.38	18	145				108						-0,01			0,9	
GAGG	e		1	10:12:55.02	21,8	239				105						0,01			0,9	
OZOL	e		1	10:12:55.81	27	335				102						-0,07			0,9	
ZIAN	i	c	1	10:12:56.31	29,8	70				101						-0,04			0,9	
DOSS	i	c	1	10:12:57.02	33,7	182				100						0,02			1,2	
CARE	e	c	2	10:12:59.26	47,2	305				97						-0,02			0	

20/10/2016	15:22:00,28	46,1369	11,1788	1,29	1,2		0	0	0,5	90	0	0,5	C	0,11	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	2	15:22:02.80	15,4	128				95						-0,13			1	
GAGG	i	c	2	15:22:03.41	18	251				94						0,03			0,8	
DOSS	i	c	1	15:22:05.03	28,6	178				93						-0,15			1,2	
ZIAN	e		2	15:22:05.87	33,5	62				92						-0,14			1,1	
VARA	e		2	15:22:07.39	40,9	212				92						0,11			0	
CARE	e		2	15:22:08.70	49	311				92						0,04			1,8	

20/10/2016	15:30:35,77	46,1310	11,1866	1	1,2		0	0	0,6	90	0	0,6	C	0,12	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	1	15:30:38.18	14,5	128				94						-0,07			1,2	
GAGG	i	c	2	15:30:38.88	18,4	253				93						-0,04			0,9	
DOSS	i	c	1	15:30:40.42	27,9	180				92						-0,12			1	
ZIAN	e		2	15:30:41.31	33,3	61				92						-0,14			1,1	
VARA	e		2	15:30:42.94	40,7	214				91						0,22			1,3	

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

20/10/2016	20:23:24,89	46,0828	11,9635	7,18	2,4		0	0	0,3	90	0	0,3	C	0,15	0	LENTIAI (BL)			M 2.8(O)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
ZIAN	e	d	2	20:23:31.42	37,7	305	36,55	2	101							-0,02		-0,01	2,5		
PANI	e		2	20:23:33.35	48,8	266			98							0,03			2,3		
DOSS	e		2	20:23:36.13	64,1	249			96							0,21			2,5		
GAGG	e		2	20:23:37.99	77,7	270			95							-0,24			2,4		
OZOL	e		2	20:23:38.68	78,8	297			95							0,26			2,5		
VARA	e		2	20:23:40.05	87,5	251			95							0,15			2,3		

20/10/2016	21:51:12,94	46,4223	10,7721	11,24	0,9		0	0	0,7	90	0	0,7	B	0,24	0	RABBI (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	i	c	1	21:51:15.42	5,8	272	16,99	2	153							0,32		0,21	0,7	
OZOL	i	c	1	21:51:17.08	21,6	96	20,1	2	117							-0,02		-0,25	0,6	
GAGG	e		2	21:51:20.38	40,3	159	25,56	2	106							0,28		-0,11	0	
RONC	e		2	21:51:22.02	50,4	193			103							0,25			1	

21/10/2016	03:15:47,75	,	,											0	CARE,OZOL					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	i	c	1	03:15:47.75			49,47	1							36					
OZOL	e	c	1	03:15:48.45			50,75	1							36					

22/10/2016	08:58:42,93	46,1235	11,7773	11,37	0,8		0	0	0,8	90	0	0,8	B	0,16	0	IMER (TN)				M 1.1(O)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
ZIAN	i	c	1	08:58:47.63	23,7	316	50,69	2	116							0,21		-0,24	0,8		

22/10/2016	13:27:04.01	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	13:27:04.01			5,27	1							29					

22/10/2016	21:39:20,58	46,6885	10,6528	8,61	1,3		0	0	0,6	90	0	0,6	B	0,23	0	MAZIA (BZ)			M 1.9(O)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
CARE	i	c	1	21:39:25.91	29,5	173	29,56	2	106							0,07		-0,38	0		
OZOL	e		2	21:39:28.50	44,1	136	33,98	3	101							0,25		-0,26	1		
RONC	e		2	21:39:34.13	78,7	182			96							0,02			1,5		
ZIAN	i	c	2	21:39:35.35	83,6	123			96							0,41			1,3		

23/10/2016	04:23:31,63		,		,											10	JUF [CH]				M 2.3(S)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
CARE			2	04:23:31.63			43,04	2							124							
RONC	e	d	2	04:23:33.91			47,16	2							129							
OZOL			3	04:23:36.86			50,79	3							130							
GAGG			3	04:23:37.15			51,62	2							130							
VARA			2	04:23:38.98			54,7	3							130							
DOSS			3	04:23:41.98											126							

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

23/10/2016	08:19:18,89	,	,											10	SIENA	M 3.0(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	08:19:18.89											203					
DOSS			3	08:19:19.59											200					
RONC			2	08:19:21.74											202					
PANI			2	08:19:22.70											202					
GAGG			3	08:19:22.98											200					
ZIAN			2	08:19:26.10			62,94	3							201					
OZOL	i	d	2	08:19:27.79			67,35	3							200					
CARE	i	d	2	08:19:28.20			68,34	3							199					

23/10/2016	09:16:30,33	46,3611	10,8490	9,38	1,1		0	0	0,7	90	0	0,7	B	0,22	0	RABBI (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e		2	09:16:33.42	13,6	301	35,33	2	125							0,26		-0,04	0	
OZOL	i	c	2	09:16:33.54	16,3	73	36,16	2	120							-0,01		0,11	0	
GAGG	e		2	09:16:36.05	32	165	40,54	3	106							0,01		0,06	0	

23/10/2016	16:44:46,74	46,6729	10,2890	10,91	1,6		0	0	0,4	90	0	0,4	B	0,13	0	VAL MUSTAIR [CH]			M 1.3(S)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
CARE	i	c	2	16:44:54.20	41,8	131	59,85	2	105							0,08		-0,02	1,9		
OZOL	e		2	16:44:58.32	65,7	117			99							0,19			1,5		
RONC	e		2	16:45:00.78	81,1	162			98							0,05			1,7		

24/10/2016	00:33:49,59	46,5518	10,6940	3,79	1,2		0	0	0,3	90	0	0,3	C	0,03	0	TRAVAGLIATO (BS)							
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag			
CARE	i	c	1	00:33:52.09	14,2	179	54,04	2	105							0		0	1,2				

24/10/2016	14:44:49,93	,	,											10	SIERRE [CH]				M 4.1(S)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
RONC	e	d	1	14:44:49.99			79,95	2							304							
CARE	i	d	2	14:44:50.80			79,73	2							294							
VARA			2	14:44:52.29			86,32	3							305							
GAGG			2	14:44:53.19			85,67	1							298							
OZOL	e	d	2	14:44:55.04			88,98	2							298							
DOSS	i	d	2	14:44:55.15			89,36	2							296							
PANI	e	d	1	14:44:56.50			90,97	1							300							
ZIAN	i	d	2	14:44:59.66			96,69	3							305							

24/10/2016	18:42:04,24	,	,											10	PERUGIA	M 3.0(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			3	18:42:04.24											188					
VARA			3	18:42:04.34											189					
ZIAN			3	18:42:08.02											191					
GAGG			3	18:42:08.04			46,07	3							189					
RONC			3	18:42:08.19											189					
OZOL	e	d	3	18:42:11.70			52,69	3							187					
CARE			3	18:42:13.57											187					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

24/10/2016	22:25:50,02	,	,											10	KOBARID [SLO]			M 3.0(O)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
ZIAN		2		22:25:50.02			70,54	2							153					
PANI		3		22:25:53.41			75,04	2							152					
DOSS		3		22:25:55.05			78,35	2							151					
OZOL		3		22:25:55.72			80,63	1							150					
GAGG		3		22:25:57.77			82,4	3							151					
VARA		3		22:25:58.77			86,03	3							152					
CARE		3		22:25:59.76			86,79	3							149					
RONC		3		22:26:03.10			29,8	3							151					

25/10/2016	16:53:38,69	,	,											10	FIRENZE	M 3.9(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	1	16:53:38.69			66,39	3							271					
DOSS	e	c	1	16:53:39.32			66,61	2							267					
RONC	e	c	1	16:53:41.07			71,12	2							268					
PANI			2	16:53:42.17			71,7	3							268					
GAGG	i	c	1	16:53:42.32			72,61	3							268					
ZIAN			1	16:53:45.68			76,92	2							271					
OZOL	e	c	1	16:53:47.37			80,77	1							268					
CARE			2	16:53:47.75			81,65	2							267					

26/10/2016	17:11:30,01	,	,											10	MACERATA				M 5.4(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			2	17:11:30.01			74,62	3							541							
VARA			1	17:11:30.31			70,05	2							548							
PANI	e	d	2	17:11:31.59			74,32	2							547							
ZIAN	e	d	1	17:11:33.68			74,56	2							548							
GAGG	e	d	1	17:11:33.96			82,9	3							541							
RONC	e	d	2	17:11:33.98			79,57	3							547							
OZOL	e	d	1	17:11:37.52			86,17	2							543							
CARE	e	d	2	17:11:39.79			88,46	2							540							

26/10/2016	18:40:13.62		,		,												10	PERUGIA				M 3.4(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag					
VARA			2	18:40:13.62			54,18	2							199										
DOSS			3	18:40:13.71			55,19	3							198										
PANI			2	18:40:15.21			56,26	3							200										
ZIAN			3	18:40:16.84			59,21	3							200										
GAGG			3	18:40:17.34			59,99	3							200										
RONC			2	18:40:17.55			61,71	3							199										
OZOL			3	18:40:20.79			67,36	3							200										
CARE			2	18:40:22.87			69,47	3							198										

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

26/10/2016	19:01:23,68	,	,											10	MACERATA				M 3.2(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA		2		19:01:23.68			62,09	2							196							
DOSS		3		19:01:23.99			63,25	3							197							
PANI		3		19:01:25.28			64,96	3							194							
ZIAN		2		19:01:27.26			71,31	3							197							
RONC		3		19:01:28.27			71,52	3							194							
GAGG		3		19:01:28.58											196							
OZOL		2		19:01:30.78			76,71	3							194							
CARE		3		19:01:33.64			79,66	3							195							

26/10/2016	19:06:40,81	,	,											10	MACERATA				M 3.0(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA		3		19:06:40.81			81,33	3							196							
DOSS		3		19:06:41.46											192							
PANI		3		19:06:43.06			82,93	3							192							
ZIAN		3		19:06:44.89			86,78	3							197							
RONC		3		19:06:45.40			89,59	3							194							
GAGG		3		19:06:45.47											191							
OZOL		3		19:06:47.79			95,48	3							192							
CARE		3		19:06:51.35											192							

26/10/2016	19:18:59,60	,	,												10	MACERATA				M 5.9(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag			
VARA		2		19:18:59.60			100,2	2															
DOSS		2		19:18:59.89			100,2	3															
PANI		2		19:19:00.62			41,75	2															
ZIAN		2		19:19:02.64			44,75	2															
RONC		2		19:19:02.76			48,78	2															
GAGG		2		19:19:04.28			48,79	3															
OZOL		2		19:19:06.72			52,45	2															
CARE		2		19:19:08.36			58,04	2															

26/10/2016	19:26:11,84	,	,											10	MACERATA				M 3.9(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS		3		19:26:11.84																		
VARA		2		19:26:12.30			51,64	2														
PANI		3		19:26:13.60			51,99	3														
GAGG		3		19:26:15.47																		
ZIAN		3		19:26:16.16			56,74	3														
RONC		3		19:26:16.18			59,3	3														
OZOL		3		19:26:19.43			65,65	3														
CARE		3		19:26:21.95																		



# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

26/10/2016	19:35:20,23	,	,											10	MACERATA				M 3.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA		3		19:35:20.23			57,82	3														
DOSS		3		19:35:20.44			58,86	3														
PANI		3		19:35:21.78			60,58	3														
RONC		3		19:35:23.78			66,01	3														
ZIAN		3		19:35:23.86			65,63	3														
GAGG		3		19:35:23.91			64,13	3														
OZOL		3		19:35:26.41			72,42	3														
CARE		3		19:35:29.81																		

26/10/2016	19:44:37,52	,	,											10	PERUGIA	M 3.8(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS		3		19:44:37.52			76,18	3							255					
VARA		2		19:44:37.67			77,47	2							260					
PANI		2		19:44:39.13			78,78	2							258					
ZIAN		2		19:44:40.75			81,9	3							261					
GAGG		3		19:44:40.80			83,9	3							254					
RONC		2		19:44:41.10			85,22	3							258					
OZOL		2		19:44:44.60			91,6	3							254					
CARE		3		19:44:46.67			93,21	3							252					

26/10/2016	19:50:19,74	,	,											10	MACERATA				M 3.5(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA		3		19:50:19.74			58,66	3							227							
DOSS		3		19:50:20.26											224							
PANI		3		19:50:21.38			60,63	3							225							
ZIAN		3		19:50:22.95											228							
GAGG		3		19:50:23.80											222							
RONC		3		19:50:24.28			66,91	3							224							
OZOL		3		19:50:26.54											223							
CARE		3		19:50:29.90			76,67	3							222							

26/10/2016	19:54:22,50	,	,												10	MACERATA			DOUBLE EV. M 3.1(I)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		3		19:54:22.50																
DOSS		3		19:54:23.05																
PANI		3		19:54:23.59																
ZIAN		3		19:54:25.22			66,81	3												
GAGG		3		19:54:26.05																
RONC		3		19:54:26.33			71,19	3												
OZOL		3		19:54:29.13			77,63	3												
CARE		3		19:54:31.59			81,42	3												

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

26/10/2016	20:04:22,47	,	,											10	MACERATA			DOUBLE EV. M 3.4(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		3		20:04:22.47			61,03	3												
DOSS		3		20:04:22.91			63,05	3												
PANI		3		20:04:24.00			61,68	3												
ZIAN		3		20:04:25.26			63,35	3												
RONC		3		20:04:26.29																
GAGG		3		20:04:26.96																
OZOL		3		20:04:29.12			68,09	3												
CARE		3		20:04:32.12			71,14	3												

26/10/2016	20:07:30,23	,	,												10	MACERATA	M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		3		20:07:30.23			67,39	3							215					
PANI		3		20:07:32.22											212					
RONC		3		20:07:34.79											211					
OZOL		3		20:07:37.34											211					

26/10/2016	20:13:33,56	,	,											10	MACERATA				M 3.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			3	20:13:33.56											228							
DOSS			3	20:13:33.69											226							
PANI			3	20:13:34.86			72,78	3							225							
ZIAN			3	20:13:36.67			76,18	3							230							
RONC			3	20:13:37.77											227							
OZOL			3	20:13:40.54			87,1	3							225							
CARE			3	20:13:43.07											223							

26/10/2016	20:26:46,01	,	,											10	MACERATA				M 3.2(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			3	20:26:46.01											220							
VARA	e	d	2	20:26:46.08			85,15	3							225							
PANI	i	d	2	20:26:47.36			87,02	3							223							
ZIAN			2	20:26:49.14			89,11	2							226							
GAGG			3	20:26:49.71			92,13	3							219							
RONC			3	20:26:50.36											224							
OZOL			2	20:26:52.82			99,78	2							220							
CARE			3	20:26:55.66			103,1	3							215							

26/10/2016	20:39:00,39	,	,											10	MACERATA			M 3.0(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS		3		20:39:00.39											187					
VARA		3		20:39:00.50			37,3	3							191					
PANI		3		20:39:01.52			39,62	3							188					
ZIAN		3		20:39:03.42			43,22	3							190					
RONC		3		20:39:04.18			45,9	3							189					
CARE		3		20:39:10.29											188					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

26/10/2016	20:43:13,51	,	,											10	MACERATA	M 3.1(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		2		20:43:13.51			53,41	3							200					
DOSS		3		20:43:13.89											197					
PANI		3		20:43:14.92			54,86	3							197					
ZIAN		2		20:43:16.80			57,21	3							201					
GAGG		3		20:43:17.21											196					
RONC		3		20:43:17.79											198					
OZOL		3		20:43:21.48											195					
CARE		3		20:43:22.68											196					

26/10/2016	21:01:40,59	,	,											10	MACERATA				M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA		2		21:01:40.59			79,46	3							201							
DOSS		3		21:01:41.57											197							
PANI		3		21:01:42.91			82,17	3							198							
ZIAN		3		21:01:44.30											201							
GAGG		3		21:01:44.40											199							
RONC		3		21:01:45.07											200							
OZOL		3		21:01:48.45											197							
CARE		3		21:01:51.00											196							

26/10/2016	21:25:45,75	,	,											10	PERUGIA	M 3.7(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	21:25:45.75			86,52	2							236					
DOSS	e	d	2	21:25:45.95											234					
PANI	i	d	2	21:25:47.61			88,74	3							235					
GAGG			3	21:25:49.00			93,69	3							234					
ZIAN			2	21:25:49.24			92,44	3							237					
RONC	e	d	2	21:25:49.57			95,1	3							236					
OZOL			2	21:25:52.88			98,81	3							234					
CARE	e	d	2	21:25:55.42			103	3							236					

26/10/2016	21:42:55,17	,	,											10	MACERATA				M 4.5(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS	e	c	2	21:42:55.17											343							
VARA	e	c	2	21:42:56.00			96,38	3							344							
PANI	e	c	2	21:42:57.02			101,2	3							343							
GAGG			2	21:42:59.04											342							
ZIAN	e	c	1	21:42:59.29			102	3							346							
RONC	e	c	2	21:42:59.79			107,1	3							343							
OZOL			2	21:43:02.95			50,02	3							342							
CARE	e	c	2	21:43:05.50											344							

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

26/10/2016	21:53:47,15	,	,											10	MACERATA			M 3.3(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS		3		21:53:47.15																
VARA		3		21:53:47.20			88,12	3												
PANI		3		21:53:48.22			88,15	3												
ZIAN		3		21:53:49.96			92,13	3												
GAGG		3		21:53:50.82			96,54	3												
RONC		3		21:53:51.04																
OZOL		2		21:53:53.72			102,6	3												
CARE		3		21:53:56.00			104,5	3												

26/10/2016	22:12:21,82	,	,											10	MACERATA			M 3.2(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	22:12:21.82			59,78	3							210					
PANI			3	22:12:22.72			63,28	3												
ZIAN			3	22:12:24.45			67,02	3							211					
RONC			3	22:12:24.98			69,61	3							209					
GAGG			3	22:12:25.46											208					
OZOL	e	c	2	22:12:28.21			75,68	3							209					
CARE			3	22:12:30.69											208					

26/10/2016	23:35:09,25	46,3706	10,8563	10,59	0,9		0	0	0,6	90	0	0,6	B	0,13	0	RABBI (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e		2	23:35:12.37	13,6	296	14,32	2	128							0,17		-0,18	0,9	
OZOL	i	c	1	23:35:12.47	15,5	76	15,12	2	124							0,02		0,17	0,5	
GAGG	e		2	23:35:15.03	32,9	166	19,8	2	108							-0,12		0,04	0	

26/10/2016	23:53:24,66	,	,											10	MACERATA			M 3.5(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS	e	c	2	23:53:24.66			64,88	3							231					
VARA	e	c	2	23:53:25.07			64,53	2							232					
PANI	e	c	2	23:53:26.46			68,12	3							231					
ZIAN	e	c	2	23:53:28.17			71,96	3							232					
RONC	e	c	2	23:53:28.97			74,11	3							229					
GAGG			3	23:53:29.21			73,74	3							230					
OZOL			2	23:53:31.89											229					
CARE			2	23:53:34.67			82,71	3							230					

27/10/2016	00:22:22,62	,	,											10	MACERATA			M 3.5(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	d	2	00:22:22.62			60,79	3							228					
DOSS			3	00:22:22.73											227					
PANI			3	00:22:24.14			62,88	3							226					
ZIAN	e	d	2	00:22:25.98											230					
GAGG			3	00:22:26.43			67,59	3							227					
RONC			3	00:22:26.68			68,7	3							227					
OZOL	e	d	2	00:22:29.48			73,11	3							226					
CARE	i	d	3	00:22:32.27			78,85	3							226					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

27/10/2016	01:14:32,13	,	,											10	MACERATA				M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS		3		01:14:32.13			71,15	3							209							
VARA		2		01:14:32.33			71,03	2							209							
PANI		3		01:14:34.09			72,57	3							206							
ZIAN		2		01:14:35.65			77,06	3							209							
RONC		3		01:14:35.79											207							
GAGG		3		01:14:36.34											208							
OZOL		2		01:14:39.32			87,55	3							206							
CARE		3		01:14:41.78											202							

27/10/2016	01:37:59,02	,	,											10	MACERATA				M 3.5(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA		3		01:37:59.02			100,3	3							229							
DOSS		3		01:37:59.29			99,9	3							227							
PANI		3		01:38:00.84			42,56	2							226							
ZIAN		3		01:38:01.34			44,11	3							230							
RONC		3		01:38:03.18			47,39	3							227							
GAGG		3		01:38:03.21			48,61	3							227							
OZOL		2		01:38:06.65			54,54	3							227							
CARE		3		01:38:09.15			55,92	3							227							

27/10/2016	03:13:33,67	,	,											10	MACERATA				M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA		3		03:13:33.67			72,97	3							207							
DOSS		3		03:13:34.35											203							
PANI		3		03:13:35.22											205							
ZIAN		3		03:13:36.82											206							
GAGG		3		03:13:38.04											202							
RONC		3		03:13:38.19											204							
OZOL		3		03:13:40.44			86,25	3							203							
CARE		3		03:13:43.16											202							

27/10/2016	03:20:21,76	,	,											10	MACERATA				M 4.0(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			3	03:20:21.76											275							
VARA	e	d	1	03:20:21.84			62,61	3							278							
PANI			2	03:20:22.95											275							
ZIAN			2	03:20:25.01			72,93	3							278							
RONC	e	d	2	03:20:25.31			73,13	3							276							
GAGG			2	03:20:25.82											274							
OZOL	e	d	2	03:20:28.61			79,18	3							273							
CARE	e	d	2	03:20:31.34											276							

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

27/10/2016	03:51:15,75	,	,											10	MACERATA				M 4.4(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS	e	d	2	03:51:15.75			55,41	3							325							
VARA	e	d	2	03:51:16.41			54,81	3							326							
PANI	e	d	2	03:51:17.50			57,31	2							323							
GAGG	e	d	2	03:51:19.26			60,07	3							325							
RONC			2	03:51:19.75			61,87	3							323							
ZIAN	e	d	1	03:51:19.88			59,79	2							327							
OZOL	e	d	2	03:51:23.70			68,43	3							324							
CARE	i	d	2	03:51:25.79			70,51	3							329							

27/10/2016	07:13:02,59	,	,											10	MACERATA				M 3.4(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			3	07:13:02.59			42,2	3							224							
DOSS			3	07:13:02.81											218							
PANI			3	07:13:04.11			44,3	3							220							
RONC			3	07:13:06.54			50,72	3							221							
GAGG			3	07:13:06.64			46,87	3							217							
OZOL			3	07:13:09.88			56,61	3							217							
CARE			3	07:13:11.96											217							

27/10/2016	07:51:25.00	,	,											10	PERUGIA	M 3.6(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	07:51:25.00			65,76	2							220					
PANI			3	07:51:26.82			67,57	3							217					
RONC			3	07:51:28.61			72,43	3							218					
GAGG			3	07:51:28.62			73,32	3							219					
CARE			3	07:51:34.33											219					

27/10/2016	08:22:39,67	,	,											10	MACERATA				M 4.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	c	2	08:22:39.67			78,41	3							322							
DOSS	e	c	2	08:22:39.86			78,29	3							317							
PANI			2	08:22:41.34			81,33	3							319							
ZIAN			2	08:22:43.30			83,41	3							323							
RONC	e	c	2	08:22:43.32			87,5	3							319							
GAGG			2	08:22:43.33			85,92	3							317							
OZOL	e	c	2	08:22:46.68			93,39	3							318							
CARE	e	c	2	08:22:48.96			93,63	3							314							

27/10/2016	08:39:30,29	,	,											10	MACERATA			M 3.3(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			3	08:39:30.29												216				
VARA	i	d	2	08:39:30.77			69,64	3								222				
GAGG			3	08:39:34.73												216				
RONC			3	08:39:35.80												218				
OZOL			3	08:39:37.53			83,96	3								216				
CARE	i	d	3	08:39:40.13			85,2	3								215				

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

27/10/2016	08:46:04,88	,	,											10	MACERATA	M 3.3(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	08:46:04.88			43,17	3							202					
DOSS			3	08:46:05.27											202					
RONC			3	08:46:09.61			51,64	3							199					
OZOL			3	08:46:11.99			55,59	3							199					
CARE			3	08:46:14.41			59,93	3							202					

27/10/2016	09:54:14,94	45,9873	10,6856	7,44	1,1		0	0	0,5	90	0	0,5	B	0,13	0	SELLA GIUDICAR. (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
RONC	e	c	1	09:54:16.54	4,9	262	17,63	2	147							0,07		-0,03	1,3	
GAGG	e		2	09:54:19.12	23,7	63	22,65	2	107							-0,07		0,15	0,9	
VARA	e		2	09:54:19.28	24,3	138	22,92	3	107							0		0,25	1,2	

27/10/2016	10:10:36,97	46,1315	11,1869	5,88	1,3		0	0	0,7	90	0	0,7	C	0,09	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e	c	2	10:10:39.72	14,5	128				112						0,07			1,3	
GAGG	e	c	2	10:10:40.22	18,4	253				108						-0,05			1,2	
DOSS	e		2	10:10:41.81	28	180				102						-0,04			1,3	
OZOL	e		2	10:10:42.44	32	341				100						-0,08			1,4	
ZIAN	e		2	10:10:42.66	33,2	61				100						-0,07			1,2	

27/10/2016	10:28:09,94	46,1285	11,1846	5,78	1		0	0	0,7	90	0	0,7	C	0,1	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e	c	2	10:28:12.60	14,5	127				112						-0,01			0,8	
GAGG	e	c	2	10:28:13.12	18,2	254				108						-0,09			0,9	
DOSS	e		3	10:28:14.78	27,6	179				102						0,01			0	
ZIAN	i	c	1	10:28:15.72	33,5	61				100						-0,04			0	

27/10/2016	10:35:12,36	46,1369	11,1788	4,13	0,9		0	0	0,1	90	0	0,1	C	0	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e		2	10:35:15.08	15,4	128				105						0			0,8	
GAGG	e		2	10:35:15.52	18	251				103						0			1	
DOSS	e		2	10:35:17.30	28,6	178				98						0,01			1,1	
ZIAN	e		2	10:35:18.12	33,5	62				97						0			0,9	

27/10/2016	12:19:52,53	,	,											10	MACERATA			M 3.5(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			3	12:19:52.53																
VARA			3	12:19:52.86																
PANI	e	c	2	12:19:53.50			92,43	3												
RONC			3	12:19:56.08																
GAGG			3	12:19:57.06			100,7	3												
OZOL			3	12:19:59.60			104,9	3												
CARE	i	c	2	12:20:01.89																

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

27/10/2016	12:24:30,20	,	,											10						
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	c	2	12:24:30.20											211					
DOSS			3	12:24:30.58																
PANI			3	12:24:31.49			72,17	3							208					
ZIAN			3	12:24:33.39											210					
GAGG			3	12:24:33.69											204					
RONC			3	12:24:34.21											208					
OZOL			3	12:24:37.36											205					
CARE			3	12:24:39.56			87,76	3							205					

27/10/2016	14:10:01,56	,	,												10	PERUGIA	M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	14:10:01.56			42,66	2							197					
GAGG			3	14:10:04.68			48,7	3							193					
RONC			3	14:10:04.80			49,9	3							194					
OZOL			3	14:10:08.32			55,69	3							191					
CARE			3	14:10:10.51			58,04	3							190					

27/10/2016	15:35:58,75	46,1476	11,1878		7	1		0	0	0	90	0	0	C	0	2	ALBIANO (TN)	EXPL?		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	2	15:36:01.68	15,6	133				114						0			1	
GAGG	i	c	2	15:36:02.23	19,1	248				110						0			1	

27/10/2016	16:15:42,99	,	,											10	MACERATA				M 3.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			2	16:15:42.99			82,12	2							225							
PANI			3	16:15:44.81			83,87	3							220							
ZIAN			3	16:15:46.55			88,54	3							223							
GAGG			3	16:15:46.87			89,94	3							218							
RONC			3	16:15:47.65			89,33	3							221							
OZOL			3	16:15:50.43			95,82	3							217							
CARE			3	16:15:52.96			97,57	3							215							

27/10/2016	17:23:17,24	,	,												10	PERUGIA				DOUBLE EV. M 4.2(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag			
VARA	e	c	2	17:23:17.24			61,87	3															
PANI			3	17:23:18.75																			
ZIAN	e	c	1	17:23:20.91			66,02	3															
GAGG			3	17:23:21.20																			
RONC			2	17:23:21.21			69,98	3															
OZOL	e	c	2	17:23:24.68			76,09	3															
CARE			2	17:23:27.16			77,96	3															



# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

27/10/2016	17:28:25,99	,	,											10	MACERATA	M 3.4(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	17:28:25.99			63,97	3							224					
PANI	e	c	2	17:28:27.62			66,78	3							222					
ZIAN	e	c	2	17:28:29.31			69,31	3							224					
GAGG			3	17:28:29.42			69,78	3							222					
RONC			3	17:28:29.64			74,21	3							224					
OZOL			2	17:28:32.96			76,98	3							220					
CARE			3	17:28:35.58			80,9	3							221					

27/10/2016	18:51:24,44	,	,											10	PERUGIA	M 3.1(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	1	18:51:24.44			64,65	3							203					
PANI			3	18:51:26.20			65,64	3							199					
ZIAN			2	18:51:27.63			69,39	3							203					
RONC			2	18:51:28.12			69,93	3							200					
GAGG			3	18:51:28.20											198					
OZOL			2	18:51:31.44			78,58	3							197					
CARE			3	18:51:34.02											196					

27/10/2016	23:36:46,34	,	,											10	MACERATA				M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			2	23:36:46.34			85,84	3							201							
PANI			3	23:36:47.51			87,95	3							196							
ZIAN			3	23:36:49.00			92,41	3							201							
GAGG			3	23:36:50.11			93,81	3							192							
RONC			3	23:36:50.58			93,79	3							198							
OZOL			3	23:36:53.86			100,4	3							193							
CARE			3	23:36:56.71											194							

28/10/2016	00:14:56,18	,	,											10	MACERATA				M 3.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			2	00:14:56.18			96,6	3							220							
PANI			3	00:14:57.52			96,34	3							216							
ZIAN			2	00:14:59.44			102,9	3							221							
RONC			3	00:15:00.27			43,35	3							218							
GAGG			3	00:15:00.34											218							
OZOL			3	00:15:03.24			50,55	3							216							
CARE			3	00:15:06.09											216							

28/10/2016	01:20:40,27	,	,											10	PERUGIA				M 3.0(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			3	01:20:40.27			80,11	3							204							
ZIAN			3	01:20:44.10			85,54	3							205							
RONC			3	01:20:44.32			87,38	3							201							
GAGG			3	01:20:44.47			87,3	3							201							
OZOL			3	01:20:47.78			93,6	3							202							
CARE			3	01:20:49.42			97,43	3							198							

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

28/10/2016	01:56:02,32	,	,											10	MACERATA				M 3.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	c	2	01:56:02.32			39,23	3							220							
PANI			3	01:56:03.43			43,64	3							216							
ZIAN	e	c	2	01:56:05.44											222							
RONC			3	01:56:06.19											216							
GAGG			3	01:56:06.50											213							
OZOL	e	c	2	01:56:09.14											213							
CARE	e	c	3	01:56:11.53			58,65	3							214							

28/10/2016	02:14:11,66	,	,												10	MACERATA				M 3.5(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag			
VARA	e	c	2	02:14:11.66			50,45	3							237								
PANI	e	c	3	02:14:12.39			52,93	3							237								
ZIAN			2	02:14:15.04			59,19	3							237								
GAGG			2	02:14:15.09			59,98	3							234								
RONC			3	02:14:15.24											235								
OZOL	e	c	2	02:14:18.60											233								
CARE	i	c	3	02:14:20.86			66,81	3							233								

28/10/2016	02:34:46,56	,	,											10	MACERATA				M 3.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			3	02:34:46.56			89,05	3							214							
PANI			3	02:34:47.64											212							
ZIAN			3	02:34:49.59											214							
GAGG			3	02:34:50.72											212							
RONC			3	02:34:51.32			96,56	3							211							
OZOL			3	02:34:53.78											211							
CARE			3	02:34:54.56											212							

28/10/2016	02:41:13,06	,	,												10	MACERATA			DOUBLE EV. M 3.1(I)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	02:41:13.06			51,92	3												
ZIAN			3	02:41:16.22			57,08	3												
GAGG			3	02:41:16.89																
RONC			3	02:41:17.31			60,25	3												
OZOL	e	c	2	02:41:19.85																
CARE	e	c	3	02:41:22.34																

28/10/2016	03:01:05,84	,	,											10	MACERATA				M 3.4(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			3	03:01:05.84			43	3							227							
PANI			3	03:01:06.38			46,9	3							226							
ZIAN	e	c	2	03:01:08.26			49,01	3							227							
GAGG			3	03:01:09.06			52,33	3							225							
RONC			3	03:01:09.25			52,11	3							224							
OZOL	e	c	2	03:01:11.82			60,11	3							225							
CARE	e	c	3	03:01:14.36			60,69	3							221							

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

28/10/2016	03:52:08,16	,	,											10	PERUGIA	M 3.3(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	2	03:52:08.16			47,69	3							213					
PANI			3	03:52:09.89			51,56	3							213					
ZIAN	e	d	2	03:52:11.69			54,86	3							212					
RONC	e	d	3	03:52:12.02			56,31	3							212					
GAGG			3	03:52:12.05			54,57	3							213					
OZOL	e	d	2	03:52:15.28											212					
CARE			3	03:52:17.80			65,19	3							214					

28/10/2016	05:35:45,81	,	,												10	MACERATA			M 3.2(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
VARA	i	d	2	05:35:45.81			84,46	2							207						
PANI	i	d	3	05:35:47.38											203						
GAGG			3	05:35:49.62			91,67	3							202						
RONC			3	05:35:50.32			93,73	3							203						
CARE			3	05:35:55.74											200						

28/10/2016	08:11:45,55	,	,											10	MACERATA			M 3.3(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	08:11:45.55			84,48	3							219					
PANI			3	08:11:47.18			85,93	3							218					
GAGG			3	08:11:50.28			91,66	3							215					
RONC			3	08:11:50.90			94,11	3							217					
OZOL			3	08:11:52.41			97,64	3							217					
CARE			3	08:11:55.12			102,3	3							216					

28/10/2016	09:13:06.53	,	,											10	MACERATA				M 3.4(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	c	2	09:13:06.53			44,56	3							217							
PANI			3	09:13:07.69			47,15	3							214							
ZIAN			3	09:13:09.88											218							
GAGG			3	09:13:10.35			52,65	3							215							
RONC			3	09:13:10.72			51,88	3							214							
OZOL			2	09:13:13.54			60,11	3							216							
CARE	i	c	2	09:13:15.83			60,38	3							213							

28/10/2016	10:11:55,70	,	,												10	MACERATA				M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag			
VARA			3	10:11:55.70			93,35	3							198								
PANI			3	10:11:57.10			95,33	3							195								
ZIAN			3	10:11:58.92			98,25	3							199								
GAGG			3	10:11:59.84											194								
RONC			3	10:11:59.96			100,8	3							195								
OZOL			3	10:12:02.66			46,16	3							194								
CARE			3	10:12:05.27											193								

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

28/10/2016	13:57:27,61	,	,											10	MACERATA				M 3.7(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			3	13:57:27.61			67,21	2							242							
PANI	e	d	2	13:57:28.51			68,47	3							241							
ZIAN			3	13:57:30.61			72,09	2							243							
GAGG			3	13:57:30.95			76,06	3							238							
RONC	e	d	2	13:57:31.10			75,47	3							239							
OZOL			3	13:57:33.98			82,32	3							238							
CARE			3	13:57:36.51			84,89	3							236							

28/10/2016	15:57:53,82	,	,											10	PERUGIA	M 3.8(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	15:57:53.82			95,53	3							257					
PANI	e	c	2	15:57:55.76			97,18	3							256					
RONC	e	c	2	15:57:57.31			102,3	3							256					
GAGG			3	15:57:57.34			102,2	3							255					
ZIAN	e	c	2	15:57:57.95			100,2	3							260					
OZOL	e	c	2	15:58:01.53			48,92	3							255					
CARE	e	c	2	15:58:03.47			50,42	3							253					

28/10/2016	19:57:25,59	,	,											10	MACERATA				M 3.7(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	c	2	19:57:25.59			65,71	3							246							
PANI	e	c	2	19:57:26.57											244							
ZIAN	i	c	2	19:57:28.90			71,44	3							246							
RONC			3	19:57:29.08			74,47	3							243							
GAGG			3	19:57:29.44			71,65	3							240							
OZOL	e	c	2	19:57:32.41			79,9	3							240							
CARE	i	c	2	19:57:35.04			85,42	3							237							

28/10/2016	22:01:11,94	,	,												10	PERUGIA	M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	22:01:11.94			53,07	3							194					
PANI			3	22:01:13.91			54,86	3							190					
ZIAN			3	22:01:15.46			57,05	3							193					
RONC			3	22:01:15.79			59,33	3							192					
GAGG			3	22:01:15.81			58,92	3							188					
OZOL			3	22:01:18.84			66,41	3							188					
CARE			3	22:01:21.14			68,79	3							187					

28/10/2016	23:19:04.00		,	,											10	PERUGIA	M 3.5(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	23:19:04.00			44,01	3							225					
PANI			2	23:19:05.67			47,06	3							221					
ZIAN	i	d	2	23:19:07.56											225					
RONC	i	d	2	23:19:08.33			52,19	3							222					
GAGG			3	23:19:08.76			50,43	3							218					
OZOL			3	23:19:11.20			57,31	3							219					
CARE			3	23:19:14.05											215					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

29/10/2016	08:49:46,93	,	,											10	MACERATA	M 3.5(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		2		08:49:46.93			84,73	3							227					
PANI		3		08:49:48.74			89,78	3							221					
ZIAN		3		08:49:50.64											226					
GAGG		3		08:49:51.06			93,41	3							221					
RONC		2		08:49:51.27			92,17	3							224					
OZOL		3		08:49:54.21			99,82	3							226					
CARE		2		08:49:57.12			102,7	3							218					

29/10/2016	08:59:36,74	,	,											10	MACERATA			M 3.2(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		2		08:59:36.74			76,44	3							216					
PANI		3		08:59:38.45			77,53	3							213					
GAGG		3		08:59:40.96			82,97	3							207					
RONC		3		08:59:41.02			84,8	3							214					
OZOL		2		08:59:43.76			90,1	3							208					
CARE		3		08:59:46.99			93,44	3							202					

29/10/2016	10:17:19,67	,	,											10	MACERATA				M 3.6(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	c	1	10:17:19.67			61,03	3							248							
PANI			2	10:17:20.58			62,21	2							244							
ZIAN	i	c	1	10:17:23.13			65,2	2							248							
RONC	e	c	2	10:17:23.18			68,32	3							246							
GAGG	e	c	2	10:17:23.30			68,37	3							242							
OZOL			2	10:17:26.75			72,44	3							242							
CARE	e	c	2	10:17:29.13			78,24	3							239							

29/10/2016	13:02:18,82	46,6676	10,2210	7,4	1,1		0	0	0,6	90	0	0,6	C	0,16	0	VAL MUSTAIR [CH]				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e		2	13:02:26.93	45,4	126	32,54	2	99							0,24		-0,28	1,5	

29/10/2016	16:25:27,54	,	,											10	PERUGIA	M 4.2(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	1	16:25:27.54			67,41	2							299					
PANI	e	d	1	16:25:28.90			69,86	2							297					
GAGG	e	d	2	16:25:30.75			75,3	3							297					
RONC	e	d	1	16:25:31.06			73,46	2							298					
ZIAN	e	d	1	16:25:31.09			74,14	3							301					
OZOL	e	d	2	16:25:34.72			82,41	3							296					
CARE	e	d	2	16:25:36.97			82,7	3							296					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

29/10/2016	17:12:06,48	,	,											10	PISA	M 2.8(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		3		17:12:06.48			38,31	3								169				
RONC		3		17:12:09.55			40,49	3								167				
GAGG		3		17:12:09.84												164				
PANI		3		17:12:10.00			37,19	3								166				
ZIAN		2		17:12:13.87			44,63	2								168				
OZOL		3		17:12:15.41			46,64	3								166				

29/10/2016	17:15:19,74	,	,											10	MACERATA			M 3.2(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		2	17:15:19.74				57,75	3							205					
PANI		3	17:15:21.49				60,15	3							203					
ZIAN		3	17:15:23.02				65,41	3							205					
GAGG		3	17:15:23.63				65,7	3							203					
RONC		2	17:15:24.25				66,61	3							203					
OZOL		3	17:15:26.80				73,29	3							203					
CARE		3	17:15:29.85				74,67	3							200					

29/10/2016	22:09:03,03	,	,											10	PERUGIA	M 3.2(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	1	22:09:03.03			43,42	2							199					
PANI			3	22:09:04.98											196					
RONC			2	22:09:06.79			51,15	3							195					
ZIAN	e	d	2	22:09:06.86			49,5	3							200					
GAGG			3	22:09:07.22			50,39	3							194					
OZOL			3	22:09:10.54			57,81	3							194					
CARE			3	22:09:13.39			60,16	3							191					

29/10/2016	23:02:25,74	,	,											10	MACERATA	DOUBLE EV. M 3.3(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		2		23:02:25.74			63,87	3												
ZIAN		3		23:02:29.14			70,38	3												
RONC		3		23:02:29.63			71,24	3												
GAGG		3		23:02:29.78			71,19	3												
OZOL		2		23:02:32.49			78,32	3												
CARE		3		23:02:35.73			81,45	3												

30/10/2016	06:41:12,24	,	,											10	PERUGIA	M 6.5(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	06:41:12.24			56,31	3							802					
PANI	e	d	2	06:41:12.87			56,11	3							798					
GAGG	e	d	2	06:41:14.99			63,63	3							785					
ZIAN	e	d	1	06:41:15.31			61,08	2							801					
RONC	e	d	1	06:41:15.45			60,31	3							799					
OZOL	e	d	1	06:41:18.91			68,12	3							793					
CARE	e	d	1	06:41:21.07			70,19	3							778					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

30/10/2016	06:56:36,14	,	,												10	RIETI	M 4.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	06:56:36.14																
PANI			3	06:56:38.40																
GAGG			3	06:56:40.03																
OZOL			3	06:56:44.26																

30/10/2016	07:01:34,37	,	,											10	PERUGIA	M 4.1(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		3		07:01:34.37			88,47	3												
PANI		3		07:01:35.91			89,58	3												
GAGG		3		07:01:38.14																
OZOL		3		07:01:41.50																
CARE		3		07:01:43.23			97,37	3												

30/10/2016	07:04:17,50	,	,											10	PERUGIA	M 3.9(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		3		07:04:17.50			58,57	3												
PANI		3		07:04:19.14			60,79	3												
ZIAN		3		07:04:20.73																
RONC		3		07:04:21.39																
GAGG		3		07:04:21.48																
OZOL		3		07:04:24.67																
CARE		3		07:04:27.14																

30/10/2016	07:05:54,05	,	,											10	PERUGIA	M 4.0(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		2		07:05:54.05																
PANI		3		07:05:55.28																
GAGG		3		07:05:58.40																
RONC		3		07:05:58.89																

30/10/2016	07:06:52,37	,	,												10	PERUGIA	M 4.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		3		07:06:52.37			93,69	3												
PANI		3		07:06:53.47																
RONC		3		07:06:56.45																
ZIAN		3		07:06:56.71																
GAGG		3		07:06:57.47																
CARE		3		07:07:02.20																

30/10/2016	07:08:49,99	,	,												10	RIETI	M 4.2(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		2		07:08:49.99																
PANI		3		07:08:51.03																
ZIAN		2		07:08:53.14																
GAGG		3		07:08:53.73																
RONC		2		07:08:53.89																
OZOL		2		07:08:57.00																
CARE		3		07:08:59.37																

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

30/10/2016	07:09:31,35	,	,												10	RIETI	M 4.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		3		07:09:31.35			73,27	3												
PANI		3		07:09:32.94																
RONC		3		07:09:34.93			79,57	3												
GAGG		3		07:09:35.50																
ZIAN		3		07:09:35.61																
OZOL		3		07:09:39.89																
CARE		3		07:09:41.00																

30/10/2016	07:11:01,37	,	,												10	PERUGIA	M 3.7(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	07:11:01.37			42,68	3												
PANI			3	07:11:03.15			44,68	3												
RONC			3	07:11:04.88			49,54	3												
ZIAN			3	07:11:04.88																
GAGG			3	07:11:05.12			48,3	3												
OZOL			3	07:11:09.24			55,52	3												
CARE			3	07:11:11.06			57,06	3												

30/10/2016	07:14:01,31	,	,											10	RIETI				DOUBLE EV. M 4.5(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	d	2	07:14:01.31			42,23	3														
PANI	i	d	2	07:14:03.15			44,98	2														
ZIAN	i	d	1	07:14:05.12			50,53	2														
RONC	i	d	2	07:14:05.17			51,5	3														
GAGG			2	07:14:05.22			50,92	2														
OZOL	i	d	1	07:14:08.84			57,73	2														
CARE	e	d	2	07:14:11.33			60,82	3														

30/10/2016	07:20:49.99	,	,												10					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		3		07:20:49.99																
PANI		3		07:20:51.66																
OZOL		2		07:20:57.94																
CARE		3		07:21:00.53																

30/10/2016	07:25:34.67	,	,											10	RIETI				M 3.8(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			2	07:25:34.67			78,31	3														
PANI	i	c	2	07:25:35.25																		
ZIAN	i	c	2	07:25:37.31																		
RONC			3	07:25:37.79																		
GAGG			3	07:25:37.92			84,8	3														
OZOL	i	c	2	07:25:40.97																		
CARE			3	07:25:43.63																		



# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

30/10/2016	07:29:37,51	,	,												10					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		3		07:29:37.51			77,84	3												
PANI		3		07:29:37.70			78,48	3												
GAGG		3		07:29:39.83			84,27	3												
RONC		3		07:29:40.54			85,32	3												
OZOL		3		07:29:43.85																
CARE		3		07:29:45.18			93,23	3												

30/10/2016	07:31:08,01	,	,												10	PERUGIA	M 3.7(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		2		07:31:08.01			47,68	3												
PANI		2		07:31:09.72			52,73	3												
RONC		3		07:31:11.50																
ZIAN		3		07:31:11.57																
OZOL		3		07:31:15.51																

30/10/2016	07:35:41,52	,	,												10	MACERATA				M 4.0(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag			
VARA			2	07:35:41.52			79,92	3															
PANI			3	07:35:42.25			82,81	3															
ZIAN	e	c	2	07:35:44.48			84,85	3															
GAGG			3	07:35:44.89			87,46	3															
RONC	e	c	2	07:35:45.32			88,81	3															
OZOL	e	c	2	07:35:48.29			93,8	3															
CARE	e	c	2	07:35:50.54			97,53	3															

30/10/2016	07:38:14,57	,	,											10	MACERATA			M 3.6(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		3		07:38:14.57			53,53	3												
PANI		3		07:38:16.23																
ZIAN		3		07:38:18.55			63,03	3												

30/10/2016	07:39:55.89	,	,											10	RIETI	M 3.9(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		2		07:39:55.89			96,1	2												
PANI		3		07:39:57.14			98,41	2												
ZIAN		3		07:39:58.90			101,5	2												
GAGG		3		07:39:59.29			102,3	3												
RONC		3		07:39:59.50			102,6	3												
OZOL		2		07:40:02.57			49,77	2												
CARE		3		07:40:04.85			50,83	3												

30/10/2016	07:45:10,09	,	,											10	TREBLE EVENT					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		2		07:45:10.09																
PANI		3		07:45:10.88																
CARE		3		07:45:18.77																

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

30/10/2016	07:56:25,37		,	,											10	PERUGIA	DOUBLE EV. M 3.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	07:56:25.37																
PANI	i	c	2	07:56:27.02																
RONC			3	07:56:28.60																
ZIAN			3	07:56:28.85																
GAGG			3	07:56:29.06																
OZOL			3	07:56:32.68																
CARE			3	07:56:34.83																

30/10/2016	08:00:12,13	,	,											10	PERUGIA			DOUBLE EV. M 3.5(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	08:00:12.13			52,8	2												
PANI	e	c	2	08:00:13.70			55,02	3												
GAGG	e	c	2	08:00:15.41			59,4	3												
RONC	e	c	2	08:00:15.46			59,13	3												
ZIAN	e	c	2	08:00:15.85			60,54	3												
OZOL	e	c	2	08:00:19.44																
CARE	i	c	2	08:00:21.41			69,38	3												

30/10/2016	08:03:34,45		,	,											10	PERUGIA			TREBLE EV. M 3.4(I)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	08:03:34.45			74,9	3												
PANI			3	08:03:36.12																
RONC			3	08:03:37.73																
ZIAN			3	08:03:37.98			81,09	3												
GAGG			3	08:03:38.08			81,82	3												
OZOL			3	08:03:41.75			89,96	3												
CARE			3	08:03:43.64			90,84	3												

30/10/2016	08:11:45,54	,	,											10	PERUGIA	DOUBLE EV. M 3.5(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	08:11:45.54			84,94	3												
PANI			3	08:11:46.72			88,47	3												
GAGG			3	08:11:48.26			92,13	3												
ZIAN			3	08:11:48.73			90,52	3												
RONC			3	08:11:48.74			93,86	3												
OZOL			3	08:11:52.20			101,2	3												
CARE			3	08:11:54.60			101,8	3												

30/10/2016	08:13:59,15	,	,											10	MACERATA	M 3.5(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	08:13:59.15			97,79	3												
PANI			3	08:14:00.48			41,2	3												
ZIAN			3	08:14:02.69			45,7	3												
GAGG			3	08:14:03.00																
RONC			3	08:14:03.48			47,84	3												
OZOL			3	08:14:07.12			52,52	3												
CARE			3	08:14:08.55			57,38	3												

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

30/10/2016	08:22:49,23	,	,											10	PERUGIA	M 3.5(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		3		08:22:49.23																
PANI		3		08:22:50.87																
RONC		3		08:22:53.06																
ZIAN		3		08:22:53.68																
GAGG		3		08:22:53.92																
OZOL		3		08:22:56.79																
CARE		3		08:22:58.58																

30/10/2016	08:23:47,85	,	,											10	PERUGIA				M 3.7(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			2	08:23:47.85			89,84	2														
PANI			2	08:23:49.64			91,49	3														
RONC	e	c	2	08:23:51.39			97,48	3														
GAGG	i	c	3	08:23:51.47			96,54	3														
ZIAN			3	08:23:51.57			95,12	3														
OZOL	e	c	3	08:23:55.00			104,2	3														
CARE			2	08:23:57.29			106,4	3														

30/10/2016	08:32:00,78	,	,											10	MACERATA				M 3.7(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	c	2	08:32:00.78			40,3	3														
PANI			2	08:32:02.28																		
ZIAN	e	c	2	08:32:03.74			46,34	3														
RONC			2	08:32:03.89			46,84	3														
GAGG			3	08:32:04.72			46,98	3														
OZOL	e	c	2	08:32:07.55			52,67	3														
CARE	i	c	2	08:32:10.09																		

30/10/2016	08:32:56.66		,		,											10	MACERATA			DOUBLE EV. M 3.7(I)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
VARA			3	08:32:56.66			95.96	3													
PANI			3	08:32:57.45																	
ZIAN			3	08:32:59.45																	
RONC			3	08:33:00.42																	
OZOL			3	08:33:01.85																	
CARE			3	08:33:05.59																	

30/10/2016	08:35:16,03	,	,											10	PERUGIA	M 3.9(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	08:35:16.03			54,9	3												
PANI	i	c	2	08:35:17.50			57,65	3												
ZIAN	e	c	2	08:35:19.26			60,99	3												
GAGG			3	08:35:19.61			62,37	3												
RONC			2	08:35:19.94			64,13	3												
OZOL			2	08:35:23.15			70,48	3												
CARE			3	08:35:25.30			72,24	3												

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

30/10/2016	08:36:53,25	,	,											10	PERUGIA	M 4.4(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	08:36:53.25			92,63	2							294					
PANI	e	c	2	08:36:54.89			94,48	3							293					
ZIAN	e	c	3	08:36:56.47			98,45	3							293					
GAGG	e	c	3	08:36:56.57			98,98	3							290					
RONC			3	08:36:57.66			100,3	3							293					
OZOL			2	08:37:00.06			47,32	3							291					
CARE	i	c	2	08:37:02.33			47,64	2							288					

30/10/2016	08:42:14.52	,	,												10	MACERATA				M 3.6(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag			
VARA			2	08:42:14.52			53,22	3															
PANI	e	c	3	08:42:15.24			55,71	3															
ZIAN	e	c	2	08:42:17.53			60,34	3															
RONC	e	c	2	08:42:17.86			62,35	3															
GAGG			3	08:42:17.87			62,25	3															
OZOL	e	c	2	08:42:20.93			67,31	3															
CARE	i	c	2	08:42:23.76			70,99	3															

30/10/2016	08:49:43,90	,	,											10	MACERATA				M 3.4(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			2	08:49:43.90			83,05	3							231							
PANI	e	c	2	08:49:44.61			84,77	3							228							
ZIAN	e	c	2	08:49:46.85			89,08	3							231							
GAGG			3	08:49:48.06											224							
RONC	e	c	2	08:49:48.34			91,56	3							228							
OZOL	i	c	2	08:49:50.82											225							
CARE	i	c	3	08:49:52.98			99,25	3							224							

30/10/2016	08:57:40.59	,	,												10	PERUGIA	M 3.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	c	2	08:57:40.59			80,5	3												
PANI			3	08:57:41.66			82,12	3												
RONC			3	08:57:43.22			87,45	3												
ZIAN			3	08:57:43.90																
CARE			3	08:57:47.14			96,87	3												

30/10/2016	08:58:51,69	,	,												10	RIETI	DOUBLE EV. M 3.5(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	08:58:51.69																
PANI			3	08:58:52.65																
ZIAN			3	08:58:54.84																
RONC			3	08:58:55.16																
GAGG			3	08:58:55.85																
OZOL			3	08:58:59.91																

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

30/10/2016	09:03:23,80	,	,											10	MACERATA				M 3.5(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			3	09:03:23.80			63,18	3														
PANI	e	c	2	09:03:24.42			67,56	3														
ZIAN	i	c	2	09:03:26.40																		
GAGG	e	c	3	09:03:26.84			69,83	3														
RONC	e	c	2	09:03:26.84																		
OZOL			2	09:03:30.04			78,8	3														
CARE	i	c	2	09:03:32.72																		

30/10/2016	09:04:24,51	,	,												10	MACERATA	M 3.4(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	09:04:24.51																
PANI			3	09:04:26.55																
ZIAN			3	09:04:27.80																
GAGG			3	09:04:29.07																
OZOL			3	09:04:31.13																

30/10/2016	09:05:42,79	,	,											10	RIETI	M 3.5(l)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	09:05:42.79			81,79	3							229					
PANI			3	09:05:43.81			84,87	3							227					
OZOL			3	09:05:49.78			96,21	3							226					

30/10/2016	09:11:34,60	,	,												10	PERUGIA	M 3.2(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	09:11:34.60			74,05	3							199					
PANI	i	c	2	09:11:36.06											194					
ZIAN			3	09:11:38.33											197					
RONC			3	09:11:39.79			82,11	3							195					
OZOL			3	09:11:41.78			88,99	3							195					

30/10/2016	09:15:20,69	,	,											10						
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI			3	09:20:15.69			51,83	3												
VARA			3	09:20:15.86			53,24	3												
ZIAN			3	09:20:18.08			60,1	3												
GAGG			3	09:20:19.31																
RONC			3	09:20:21.13			61,62	3												

30/10/2016	09:24:47,40	,	,												10	PERUGIA	M 3.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	09:24:47.40			86,7	2							211					
PANI			3	09:24:49.08			88,66	3							208					
ZIAN			2	09:24:50.61											213					
RONC			3	09:24:51.08			93,94	3							209					
GAGG			3	09:24:51.22			94,66	3							208					
OZOL			2	09:24:54.27											207					
CARE			3	09:24:57.24			103,8	3							206					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

30/10/2016	09:34:57,55	,	,											10	RIETI	M 3.1(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	09:34:57.55			97,86	3							199					
PANI			3	09:34:58.11			101,4	3							198					
ZIAN			3	09:34:59.39			104,2	3							199					
RONC			3	09:35:00.71			45,5	3							197					
GAGG			3	09:35:01.32			45,14	3							196					
OZOL			3	09:35:04.37			53,21	3							197					
CARE			3	09:35:06.27			56,28	3							196					

30/10/2016	09:41:02,63	,	,											10						
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	c	2	09:41:02.63																
PANI			3	09:41:04.19																
GAGG			3	09:41:05.61																
ZIAN	e	c	2	09:41:06.16																
RONC			3	09:41:06.74																
OZOL	i	c	3	09:41:09.72																
CARE			3	09:41:12.27																

30/10/2016	09:41:57,68	,	,											10	ASCOLI PICENO	M 3.3(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	09:41:57.68			94,73	3							218					
PANI			3	09:41:58.52			97,86	3							217					
ZIAN	i	c	3	09:42:00.63											217					
GAGG	i	c	2	09:42:01.04			43,45	3							214					
RONC	i	c	3	09:42:01.40											216					
OZOL	i	c	2	09:42:04.38											215					
CARE	i	c	2	09:42:06.92			54,12	3							211					

30/10/2016	09:48:06,30	,	,												10	RIETI	M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	c	2	09:48:06.30			47,63	3							194					
PANI			3	09:48:07.17			50,61	3							192					
RONC			3	09:48:09.83			54,27	3							192					
GAGG			3	09:48:09.86											190					
OZOL			3	09:48:12.99											191					
CARE			3	09:48:15.67											188					

30/10/2016	09:51:58,91	,	,											10	PERUGIA	M 3.6(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	09:51:58.91			99,23	3							240					
PANI			3	09:51:59.88			101,2	3							238					
RONC			3	09:52:02.35			46,73	3							237					
ZIAN			3	09:52:02.37			44,43	3							240					
GAGG			3	09:52:02.65											232					
OZOL			3	09:52:06.02											233					
CARE			3	09:52:08.22											231					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

30/10/2016	10:01:43,23	,	,											10	PERUGIA	M 3.3(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		2		10:01:43.23			82,4	3							217					
PANI		3		10:01:44.68			86,55	3							219					
ZIAN		3		10:01:46.28											218					
RONC		3		10:01:46.60			90,29	3							220					
GAGG		3		10:01:46.79			89,76	3							216					
OZOL		3		10:01:50.13			97,16	3							217					
CARE		3		10:01:52.10											215					

30/10/2016	10:16:34,79	,	,												10	ASCOLI PICENO	M 3.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		3		10:16:34.79			75,92	3							215					
PANI		3		10:16:35.72			79,24	3							213					
ZIAN		3		10:16:37.73			81,18	3							216					
RONC		3		10:16:38.21			82,67	3							213					
OZOL		3		10:16:40.81			88,58	3							212					
CARE		3		10:16:43.95			93,14	3							209					

30/10/2016	10:20:21,12	,	,											10	PERUGIA				DOUBLE EV. M 4.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	d	2	10:20:21.12			60,16	3							289							
PANI	e	d	2	10:20:22.15			64,49	3							285							
ZIAN	e	d	2	10:20:24.13			67,01	3							288							
RONC	e	d	2	10:20:24.34			66,07	2							286							
GAGG	e	d	2	10:20:24.77			67,72	3							284							
OZOL			3	10:20:28.08			74,89	3							282							
CARE	e	d	2	10:20:30.31			76,72	2							283							

30/10/2016	10:25:28,00	,	,											10	MACERATA				M 3.7(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	i	c	2	10:25:28.00			66,89	3														
PANI	e	c	2	10:25:28.41			67,93	3														
ZIAN	e	c	2	10:25:30.63																		
GAGG	e	c	1	10:25:31.04			73,49	3														
RONC			2	10:25:31.93			74,5	3														
OZOL	e	c	1	10:25:34.34																		
CARE	i	c	1	10:25:36.85			85,24	3														

30/10/2016	10:27:19,57	,	,												10	PERUGIA	M 3.6(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	10:27:19.57																
PANI			3	10:27:21.81																
ZIAN			3	10:27:23.94																
RONC			3	10:27:24.10																

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

30/10/2016	10:30:18,11	,	,												10	MACERATA	DOUBLE EV. M 3.2(I)
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st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	10:30:18.11			57,1	3												
PANI			3	10:30:18.77																
ZIAN			3	10:30:20.63			61,76	3												
GAGG			3	10:30:21.62			66,05	3												
RONC			3	10:30:22.82			65,02	3												
OZOL			3	10:30:24.24			71,53	3												
CARE			3	10:30:26.72			73,14	3												

30/10/2016	10:33:07,33	,	,												10	MACERATA	M 3.3(I)
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st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	10:33:07.33			46,17	3												
PANI			3	10:33:08.25			48,55	3												
ZIAN			3	10:33:10.20																
GAGG			3	10:33:10.72			53,18	3												
RONC			3	10:33:11.20			55,09	3												
OZOL	e	d	2	10:33:13.52			60,57	3												
CARE			3	10:33:16.23			62,72	3												

30/10/2016	10:38:35,09	,	,												10	RIETI	M 3.1(I)
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st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	10:38:35.09			75,3	3							205					
PANI	i	d	2	10:38:36.52			78,47	3							203					
ZIAN			3	10:38:38.40			81,61	3							206					
GAGG			3	10:38:38.77			81,22	3							202					
RONC			3	10:38:38.85			83,25	3							203					
CARE			3	10:38:44.46											201					

30/10/2016	10:47:35,79	,	,												10	RIETI	M 3.2(I)
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st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	10:47:35.79			77,36	3												
PANI			2	10:47:36.92			79,61	3												
ZIAN	i	d	2	10:47:38.89			83,02	3												
GAGG			3	10:47:39.25			83,79	3												
RONC			3	10:47:39.35			83,86	3												
OZOL	e	d	2	10:47:42.60			90,93	3												
CARE	e	d	3	10:47:45.03			93,08	3												

30/10/2016	10:50:15,69	,	,												10	FORLI'-CESENA	M 3.7(I)
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st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	1	10:50:15.69			40,03	3												
PANI			2	10:50:17.08			40,85	3												
GAGG			2	10:50:18.97			45,4	3												
RONC	i	d	1	10:50:19.34			46,21	3												
ZIAN	e	d	1	10:50:19.41			44,69	2												
OZOL			2	10:50:22.81			52,65	3												
CARE	e	d	2	10:50:25.29			55,73	3												



# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

30/10/2016	10:51:33,06	,	,												10	PERUGIA	M 3.9(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		3		10:51:33.06			71,91	2												
PANI		3		10:51:34.58			73,92	3												
ZIAN		3		10:51:36.52			77,07	3												
GAGG		3		10:51:36.89			79,19	3												
OZOL		3		10:51:40.02			84,38	3												
CARE		3		10:51:41.28			89,43	3												

30/10/2016	11:01:44,48	,	,											10	PERUGIA	M 3.5(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	11:01:44.48			83,43	2												
PANI	i	c	2	11:01:46.33			85,22	3												
RONC	e	c	2	11:01:47.58			91,35	3												
ZIAN	e	c	2	11:01:47.68			89,79	3												
GAGG			3	11:01:47.98			90,28	3												
OZOL			3	11:01:51.25			99,19	3												
CARE			3	11:01:53.17			100,2	3												

30/10/2016	11:06:48,13	,	,											10	MACERATA				M 3.6(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			3	11:06:48.13			87,02	3							232							
PANI	e	c	2	11:06:48.97			88,15	3							230							
ZIAN	i	c	2	11:06:51.38			91,82	2							232							
RONC			3	11:06:51.62			96,83	3							232							
GAGG			2	11:06:51.66			93,26	3							229							
OZOL	i	c	1	11:06:55.26			99,64	3							230							
CARE	i	c	2	11:06:57.52			102,5	3							226							

30/10/2016	11:15:16,61	,	,												10	PERUGIA	DOUBLE EV. M 3.7(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		3		11:15:16.61																
PANI		3		11:15:17.69																
ZIAN		3		11:15:19.59																
GAGG		3		11:15:19.95																
OZOL		3		11:15:22.93																
CARE		3		11:15:25.60																

30/10/2016	11:21:17,10	,	,												10	PERUGIA	M 3.9(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	11:21:17.10																
PANI	e	c	2	11:21:17.85																
ZIAN	i	c	2	11:21:19.79																
GAGG	e	c	2	11:21:20.32																
RONC			3	11:21:21.09																
OZOL			2	11:21:23.27																
CARE	i	c	2	11:21:26.12																

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

30/10/2016	11:22:01,22	,	,											10	MACERATA			M 4.1(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		3		11:22:01.22			37,25	3												
PANI		3		11:22:02.33			38,93	3												
ZIAN		3		11:22:04.51			42,5	3												
RONC		3		11:22:04.51			44,31	3												
GAGG		3		11:22:05.17			44,56	3												
OZOL		3		11:22:07.42			50,52	3												
CARE		2		11:22:09.97			54,85	3												

30/10/2016	11:27:46,84	,	,											10	MACERATA			M 3.3(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	1	11:27:46.84			86,47	3							207					
PANI			2	11:27:48.13			89,87	3							207					
ZIAN			2	11:27:50.03											208					
RONC			2	11:27:50.34			95,01	3							206					
GAGG			2	11:27:50.44			94,11	3							209					
OZOL			3	11:27:54.01			101,4	3							207					
CARE	e	c	2	11:27:56.38											209					

30/10/2016	11:40:54,92	,	,											10	MACERATA	M 3.5(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	11:40:54.92			93,19	2							228					
PANI			2	11:40:56.32			95,19	2							227					
ZIAN			2	11:40:58.14			98,95	2							228					
RONC			3	11:40:58.98			101,7	3							227					
GAGG			3	11:40:59.04			99,49	2							227					
OZOL	e	c	2	11:41:01.88			47,49	3							227					
CARE	e	c	3	11:41:04.16			49,13	3							226					

30/10/2016	11:59:11,10	,	,											10	PERUGIA	M 4.0(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	11:59:11.10			52,44	3							267					
PANI	e	c	1	11:59:13.27			56,18	3							264					
RONC			2	11:59:14.74			60,2	3							264					
ZIAN			2	11:59:14.91											268					
GAGG			3	11:59:15.29			60	3							262					
OZOL	e	c	2	11:59:18.45											262					
CARE			2	11:59:20.68			67,27	3							260					

30/10/2016	12:04:11,26	,	,											10	PERUGIA	M 3.5(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		3		12:04:11.26			50,66	3												
PANI		3		12:04:13.77			54,8	3												
ZIAN		3		12:04:15.24			56,85	3												
GAGG		3		12:04:15.27			58,66	3												
RONC		3		12:04:15.32			60,3	3												
OZOL		3		12:04:19.13			64,86	3												
CARE		3		12:04:20.96			68,31	3												

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

30/10/2016	12:07:54,37	,	,											10	PERUGIA	M 4.6(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	12:07:54.37			94,04	2												
PANI	e	d	2	12:07:55.90			96,17	2												
ZIAN	e	d	1	12:07:57.73			99,93	2												
GAGG	e	d	1	12:07:57.92			101,9	2												
RONC	e	d	1	12:07:58.26			101,6	2												
OZOL	e	d	1	12:08:01.58			49,91	2												
CARE	e	d	1	12:08:03.89			50,55	2												

30/10/2016	12:27:11,61	,	,											10	MACERATA			M 3.7(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	1	12:27:11.61			50,52	3							298					
PANI			2	12:27:12.41			51,56	3							298					
ZIAN	e	c	1	12:27:14.62			55,08	3							298					
RONC	e	c	2	12:27:14.85			58,3	3							298					
GAGG	e	c	2	12:27:14.88											295					
OZOL	e	c	1	12:27:18.31			62,37	3							295					
CARE	i	c	1	12:27:20.75			65,55	3							293					

30/10/2016	12:33:14,35	,	,											10	MACERATA			M 3.4(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	12:33:14.35			54,45	3												
PANI			2	12:33:15.57			56,75	3												
ZIAN			2	12:33:17.55			59,71	3												
GAGG			3	12:33:17.89			62,07	3												
RONC	e	c	2	12:33:18.11			61,75	3												
OZOL			2	12:33:21.22			68,3	3												
CARE			2	12:33:23.58			70,93	3												

30/10/2016	12:36:02,83	,	,											10	MACERATA			M 3.4(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	12:36:02.83			42,47	3												
PANI			3	12:36:03.58			43,35	3												
ZIAN			3	12:36:05.31																
RONC			3	12:36:06.42																
GAGG			3	12:36:06.73																
OZOL			3	12:36:09.03			54,47	3												
CARE			3	12:36:12.16																

30/10/2016	12:41:06,56	,	,											10	MACERATA	M 3.2(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	12:41:06.56			45,03	3							207					
PANI	i	c	3	12:41:06.95			46,91	3							203					
RONC			3	12:41:10.28			52,87	3							204					
OZOL	e	c	2	12:41:13.12			59,35	3							198					
CARE	i	c	3	12:41:15.35			62,51	3							200					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

30/10/2016	12:50:18,41	,	,												10	RIETI	M 3.2(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	12:50:18.41			60,17	3												
PANI	i	c	2	12:50:19.50			63,93	3												
RONC			3	12:50:21.11																
ZIAN			3	12:50:21.29																
OZOL	e	c	2	12:50:24.87			74,14	3												
CARE	e	c	2	12:50:27.01																

30/10/2016	12:53:19,85	,	,											10	PERUGIA				M 3.2(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			3	12:53:19.85																		
PANI			3	12:53:21.72			62,29	3														
RONC			3	12:53:23.25			67,04	3														
ZIAN			3	12:53:23.54			65,16	3														
GAGG			3	12:53:24.08																		
OZOL			3	12:53:27.33			73,73	3														
CARE			3	12:53:29.66																		

30/10/2016	12:55:58,70	,	,											10						
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	12:55:58.70			97,82	3												
PANI	e	c	3	12:55:59.64			99,39	3												
ZIAN	e	c	3	12:56:01.71																
RONC	i	c	3	12:56:03.03			46,58	3												
GAGG			3	12:56:03.07																
OZOL	i	c	2	12:56:05.64																
CARE	i	c	1	12:56:08.01																

30/10/2016	12:58:35,17	,	,											10	MACERATA				M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	i	d	2	12:58:35.17			73,3	2							190							
PANI	e	d	3	12:58:35.59			75,15	2							190							
ZIAN	i	d	2	12:58:37.70			78,89	3							192							
GAGG			3	12:58:38.03											190							
RONC			3	12:58:38.99			81,22	3							193							
OZOL	i	d	3	12:58:41.55			88,67	3							190							
CARE	i	d	2	12:58:44.01			91,57	3							188							

30/10/2016	13:03:28,22	,	,											10	PERUGIA				M 3.5(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	d	2	13:03:28.22			69,04	3							244							
PANI	e	d	3	13:03:29.77			71,8	3							242							
ZIAN			3	13:03:31.62			75,28	3							246							
GAGG	e	d	2	13:03:32.10			75,63	3							240							
RONC			3	13:03:32.83											241							
OZOL	e	d	2	13:03:35.10			83,48	3							240							
CARE	e	d	3	13:03:37.15			85,64	3							236							

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

30/10/2016	13:15:11,60	,	,											10	PERUGIA	M 3.5(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	13:15:11.60			51,26	3							240					
PANI			2	13:15:13.03			54,04	3							238					
GAGG	e	c	2	13:15:14.37			58,3	3							235					
RONC	e	c	1	13:15:14.63			57,66	2							239					
ZIAN	e	c	2	13:15:15.46			58,08	2							240					
OZOL	e	c	1	13:15:18.70			66,99	3							235					
CARE	i	c	1	13:15:20.84			67,07	3							233					

30/10/2016	13:22:21,48	,	,												10	MACERATA				DOUBLE EV. M 3.6(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag			
VARA	e	d	1	13:22:21.48			60,59	3															
PANI	e	d	3	13:22:22.58																			
ZIAN	i	d	2	13:22:24.83			64,52	3															
GAGG			3	13:22:25.14																			
RONC			3	13:22:25.35			67,92	3															
OZOL	i	d	2	13:22:28.49																			
CARE	e	d	2	13:22:30.04			77,75	3															

30/10/2016	13:35:49,80	,	,											10	PERUGIA	M 4.5(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	1	13:35:49.80			90,45	3							319					
PANI			1	13:35:50.91			90,68	3							313					
ZIAN	e	c	2	13:35:52.63			94,88	3							318					
RONC			2	13:35:53.12											315					
GAGG	e	c	2	13:35:53.68			98,43	3							310					
OZOL	e	c	1	13:35:56.62			105,1	3							312					
CARE	e	c	2	13:35:58.83											310					

30/10/2016	13:42:58,47	,	,											10	MACERATA				M 3.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	c	2	13:42:58.47			97,4	3							213							
PANI	e	c	1	13:42:59.50											212							
ZIAN	i	c	1	13:43:01.63											215							
GAGG	e	c	1	13:43:01.88											210							
RONC			3	13:43:01.98											213							
OZOL	e	c	1	13:43:05.32			52,36	3							209							
CARE	i	c	1	13:43:07.95											210							

30/10/2016	13:48:22.07		,		,											10	MACERATA				M 3.1(I)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	i	d	2	13:48:22.07			60,59	3							190							
PANI	i	d	3	13:48:22.20			61,54	3							192							
ZIAN	i	d	2	13:48:24.27			65,76	3							191							
GAGG			2	13:48:24.78			66,88	3							192							
RONC	e	d	2	13:48:26.32			69,22	3							190							
OZOL	i	d	2	13:48:27.87			73,01	3							190							
CARE	i	d	2	13:48:30.57											192							

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

30/10/2016	14:04:12,02	,	,											10	MACERATA				M 3.6(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	c	2	14:04:12.02			51,33	3							234							
PANI	e	c	2	14:04:12.95			54,15	3							233							
ZIAN	e	c	1	14:04:14.85											234							
GAGG			2	14:04:15.29											226							
RONC	e	c	1	14:04:15.31			62,12	3							233							
OZOL	e	c	2	14:04:18.60											230							
CARE	i	c	1	14:04:21.22			69,3	3							225							

30/10/2016	14:08:14,96	,	,												10	PERUGIA	M 3.2(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	1	14:08:14.96			54,69	2							202					
PANI			3	14:08:16.49			57,24	3							201					
ZIAN			2	14:08:17.41			59,05	3							203					
GAGG			2	14:08:18.10			60,79	3							199					
RONC	e	c	1	14:08:18.16			62,11	3							202					
OZOL			2	14:08:21.40			67,51	3							199					
CARE			2	14:08:24.13			71,86	3							200					

30/10/2016	14:15:15,04	,	,												10	MACERATA	M 3.8(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	2	14:15:15.04																
PANI			2	14:15:15.27																
ZIAN			2	14:15:17.25																
GAGG			2	14:15:18.27																
RONC			3	14:15:18.52																
OZOL	e	d	2	14:15:21.16																
CARE			3	14:15:23.23																

30/10/2016	14:15:34,14	,	,												10	PERUGIA	M 3.8(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	14:15:34.14			74,33	3							262					
PANI			2	14:15:35.64			75,07	3							261					
RONC			3	14:15:37.66			80,89	3							263					
ZIAN			3	14:15:38.09			79,18	3							262					
GAGG			3	14:15:38.27			80,73	3							260					
OZOL			2	14:15:41.59			86,25	3							260					
CARE			3	14:15:44.16			90,73	3							261					

30/10/2016	14:23:26,42	,	,											10	RIETI				M 3.2(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			2	14:23:26.42																		
PANI			3	14:23:27.77			68,84	3														
GAGG			3	14:23:29.13																		
RONC			3	14:23:30.00			72,84	3														
ZIAN			3	14:23:30.02																		
OZOL			3	14:23:33.14			78,61	3														
CARE			3	14:23:35.61			83,44	3														

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

30/10/2016	14:25:39,03	,	,											10	PERUGIA	M 3.6(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	c	2	14:25:39.03			79,45	3							235					
PANI			2	14:25:41.20			82,77	3							232					
GAGG			2	14:25:42.37			86,88	3							227					
RONC	i	c	2	14:25:42.84											234					
ZIAN	e	c	2	14:25:43.39			84,87	3							235					
OZOL	e	c	2	14:25:46.86			93,06	3							228					
CARE			2	14:25:48.41			96,27	3							227					

30/10/2016	14:46:16,62	,	,											10	MACERATA				M 3.6(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	c	2	14:46:16.62			55,65	3							239							
PANI	e	c	1	14:46:17.60			57,87	3							237							
ZIAN	i	c	2	14:46:19.80											240							
GAGG			3	14:46:20.03											234							
RONC			2	14:46:20.06			64,61	3							238							
OZOL	e	c	1	14:46:23.39			68,54	3							234							
CARE	e	c	2	14:46:25.91			71,66	3							236							

30/10/2016	15:15:02,00	,	,												10	MACERATA				M 3.0(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag			
PANI	e	d	3	15:15:02.00			43,09	3							195								
VARA	i	d	2	15:15:02.44			42,09	3							196								
ZIAN			2	15:15:04.99			45,51	3							197								
GAGG			3	15:15:05.47			49,99	3							194								
RONC			3	15:15:05.47			50,53	3							196								
OZOL	i	d	2	15:15:08.81			55,4	3							193								
CARE			3	15:15:11.08											192								

30/10/2016	15:19:02,73	,	,											10	PERUGIA	M 3.2(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	15:19:02.73																
PANI			3	15:19:04.33																
RONC			3	15:19:05.35																
ZIAN			3	15:19:06.30																
GAGG			3	15:19:07.20																
OZOL			3	15:19:09.64																

30/10/2016	15:20:00,03	,	,											10	PERUGIA	M 3.2(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	15:20:00.03			40,18	3							201					
PANI			3	15:20:01.66			41,54	3							198					
GAGG			3	15:20:04.56			45,84	3							195					
ZIAN			3	15:20:04.83			45,87	3							204					
OZOL			3	15:20:07.61			53,56	3							193					
RONC			3	15:20:09.80			47,06	3							198					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

30/10/2016	15:32:43,88	,	,											10	PERUGIA	M 3.0(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		2		15:32:43.88			82,81	3							189					
PANI		2		15:32:45.38			87,6	3							187					
ZIAN		3		15:32:47.04			89,31	3							190					
GAGG		3		15:32:47.48			90,28	3							186					
RONC		3		15:32:47.63			90,66	3							187					
OZOL		3		15:32:50.60			97,46	3							186					
CARE		3		15:32:53.22											186					

30/10/2016	15:50:31,03	46,3503	10,8385	6,83	0,8		0	0	0,6	90	0	0,6	B	0,14	0	RABBI (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	i	d	1	15:50:33.81	13,6	307	35,64	2	117							0,17		-0,03	0,4	
OZOL	e		2	15:50:34.27	17,4	70	36,59	2	111							0,04		-0,14	0,8	
GAGG	e		2	15:50:36.56	31,1	163	40,83	2	102							0,09		0,12	1	

30/10/2016	16:08:14,30	,	,												10	MACERATA				M 3.6(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag			
VARA		3		16:08:14.30			51,6	3							250								
PANI		3		16:08:15.05											248								
ZIAN		2		16:08:16.57			57,69	3							251								
GAGG		3		16:08:18.06			59,43	3							245								
RONC		3		16:08:18.22			59,74	3							248								
OZOL		3		16:08:20.76			66,81	3							245								
CARE		3		16:08:23.03											245								

30/10/2016	16:16:38,64	,	,											10	PERUGIA			M 3.1(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	1	16:16:38.64			80,03	3												
RONC	i	d	2	16:16:41.93			87,32	3												
ZIAN	i	d	2	16:16:41.93			86,99	3												
GAGG	i	d	2	16:16:42.00																
OZOL	i	d	2	16:16:45.75			93,38	3												
CARE	i	d	2	16:16:48.04																

30/10/2016	16:19:30,45	,	,											10	PERUGIA				M 3.2(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	d	2	16:19:30.45			69,9	2							214							
PANI	e	d	2	16:19:32.08			72,58	3							211							
RONC	i	d	3	16:19:33.68			78,16	2							212							
ZIAN	e	d	2	16:19:33.72			75,97	3							215							
OZOL	e	d	2	16:19:37.79			84,85	3							208							
CARE	i	d	2	16:19:39.71			86,4	3							206							



# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

30/10/2016	16:31:03,44	,	,											10						
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	1	16:31:03.44																
PANI			2	16:31:05.46			45,18	3												
ZIAN			3	16:31:07.23																
GAGG			3	16:31:07.91																
RONC			3	16:31:08.43			50,2	3												
OZOL	i	c	2	16:31:11.14			55,38	3												
CARE			3	16:31:13.71																

30/10/2016	16:42:11,59	45,8145	11,1273	6,76	1		0	0	0,5	90	0	0,5	C	0,05	0	VALLARSA (TN)	M 1.3(O)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e		2	16:42:14.93	18	274	17,34	2	111							0,06		-0,09	0	
GAGG	e		1	16:42:17.33	32,6	336	21,7	2	102							0,05		-0,03	0,9	

30/10/2016	17:08:23,35	,	,											10	MACERATA				M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			3	17:08:23.35			60,07	3							196							
PANI			3	17:08:24.44			61,98	3							194							
ZIAN			3	17:08:26.17			64,74	3							196							
GAGG			3	17:08:26.86			67,06	3							191							
RONC			3	17:08:27.11			69,15	3							195							
OZOL			3	17:08:29.87			74,37	3							192							
CARE			3	17:08:32.99			77,84	3							189							

30/10/2016	17:12:05,60	,	,											10	L'AQUILA				M 3.0(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	d	1	17:12:05.60			47,75	2														
PANI	i	d	2	17:12:07.22			50,61	3														
ZIAN	i	d	2	17:12:09.45																		
RONC			3	17:12:10.50			54,61	3														
OZOL			3	17:12:12.96			62,22	3														
CARE	i	d	2	17:12:15.96																		

30/10/2016	17:14:08,88	,	,											10	PERUGIA	M 3.0(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	17:14:08.88			50,92	3							195					
PANI			3	17:14:11.12			53,65	3							192					
ZIAN			3	17:14:12.41			57,68	3							196					
RONC			3	17:14:12.73			58,29	3							193					
OZOL			3	17:14:16.31			65,2	3							189					

30/10/2016	17:20:41,92	,	,											10	PERUGIA			DOUBLE EV. M 3.0(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	17:20:41.92			82,99	2												
PANI			3	17:20:43.90			85,69	3												
GAGG			3	17:20:45.14			89,66	3												
RONC			2	17:20:45.39			89,79	3												
ZIAN	e	c	2	17:20:45.94			88,04	3												
CARE	i	c	3	17:20:51.61			98,35	3												

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

30/10/2016	17:23:33,82	,	,											10	MACERATA	M 3.1(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	2	17:23:33.82			74,06	2							206					
PANI			3	17:23:35.59											201					
RONC			3	17:23:37.90			80,96	3							203					

30/10/2016	17:33:03,32	,	,											10	MACERATA			M 3.4(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	17:33:03.32			42,11	2							230					
PANI	e	c	2	17:33:04.70			44,14	3							226					
ZIAN	e	c	2	17:33:06.46			48,12	3							232					
GAGG			3	17:33:07.54			50,56	3							221					
RONC			2	17:33:08.08			51,78	3							227					
OZOL	e	c	2	17:33:10.31			54,91	3							223					
CARE	i	c	3	17:33:12.54			60,17	3							221					

30/10/2016	17:50:07,38	,	,											10	MACERATA			M 3.5(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	2	17:50:07.38			46,34	3							232					
PANI			3	17:50:09.07			48,53	3							229					
ZIAN			2	17:50:10.99			52,83	3							232					
RONC	e	d	2	17:50:12.13			55,45	3							228					
GAGG			3	17:50:12.16			54,01	2							225					
OZOL			3	17:50:15.22			60,69	3							225					
CARE			3	17:50:17.98			63,6	3							224					

30/10/2016	18:22:04,82	,	,											10	PERUGIA			DOUBLE EV. M 4.0(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	18:22:04.82			46,7	3												
PANI	e	c	1	18:22:06.04			48,85	3												
ZIAN	e	c	1	18:22:08.19			53,48	3												
GAGG	e	c	2	18:22:08.26																
RONC	e	c	2	18:22:08.42			57,19	3												
OZOL	e	c	1	18:22:11.80			61,74	3												
CARE	i	c	1	18:22:14.38			63,09	3												

30/10/2016	18:40:23,87	,	,											10	PERUGIA			M 3.5(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	1	18:40:23.87			63,51	2							229					
PANI	e	c	1	18:40:25.20			66,05	2							226					
ZIAN			2	18:40:27.04			68,34	3							229					
RONC			2	18:40:27.24			70,01	3							227					
GAGG			3	18:40:27.30			69,79	3							223					
OZOL	e	c	1	18:40:30.92			76,83	3							223					
CARE			3	18:40:33.40			78,22	3							220					

30/10/2016	19:17:06,97	45,8128	11,1228		9,76	0,7		0	0	1,4	90	0	1,4	C	0,11	0	VALLARSA (TN)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e		2	19:17:10.54	17,7	275	12,98	2	119							0,12		-0,13	0	
GAGG	e		2	19:17:13.00	32,7	337			107							0,2			0	

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

30/10/2016	19:29:22,66	,	,												10	ASCOLI PICENO	M 3.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	19:29:22.66			63,86	3												
PANI	e	c	2	19:29:23.56																
ZIAN	i	c	3	19:29:25.58																
GAGG			3	19:29:26.28																
RONC			3	19:29:27.12			71,4	3												
OZOL	i	c	2	19:29:29.24			77,25	3												
CARE			3	19:29:32.18																

30/10/2016	19:44:29,08	,	,											10	MACERATA				M 3.4(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	i	d	2	19:44:29.08			66,39	3							219							
PANI			3	19:44:31.03			69,12	3							212							
RONC			3	19:44:34.85			75,15	3							214							

30/10/2016	20:10:52,02	,	,												10	RIETI	M 3.2(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	1	20:10:52.02			92,89	2							196					
PANI	e	d	2	20:10:53.48			93,77	3							193					
GAGG			3	20:10:55.43			99,91	3							194					
ZIAN	e	d	2	20:10:55.43			98,22	2							197					
RONC	e	d	2	20:10:55.43			99,63	2							194					
OZOL	e	d	1	20:10:59.12			104,8	3							193					
CARE	i	d	3	20:11:01.36			49,34	3							190					

30/10/2016	20:16:08,64	,	,												10	PARMA	M 2.6(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	1	20:16:08.64			28,39	1							150					
RONC	e	c	1	20:16:09.98			30,19	2							149					
GAGG	i	c	1	20:16:12.23			33,92	2							148					
PANI	i	c	1	20:16:13.25			37,52	2							148					
CARE	e	c	2	20:16:17.03			41,51	2							150					
OZOL	e	c	1	20:16:17.26			42,81	2							146					
ZIAN			2	20:16:17.37			42,17	2							148					

30/10/2016	20:48:01,95	,	,											10	MACERATA				M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	c	2	20:48:01.95			41,29	3							206							
PANI	i	c	2	20:48:02.96			42,78	3							205							
RONC			2	20:48:05.14			50,92	3							205							
ZIAN	i	c	2	20:48:05.25			46,61	3							206							
GAGG			2	20:48:05.56			49,21	3							200							
OZOL	e	c	1	20:48:08.88			56,54	3							201							
CARE	i	c	1	20:48:11.43			58,91	3							199							

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

30/10/2016	20:53:10,21	,	,											10	MACERATA	M 3.4(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	20:53:10.21			47,14	2							223					
PANI	i	c	2	20:53:11.25			49,6	3							221					
ZIAN			3	20:53:13.85			53,52	3							225					
GAGG			3	20:53:14.11			54,34	3							218					
RONC	e	c	2	20:53:14.95			54,99	3							221					
OZOL			3	20:53:17.53			61,26	3							219					
CARE	i	c	3	20:53:20.43			64,28	3							217					

30/10/2016	22:20:37,35	,	,											10	MACERATA				M 3.4(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			2	22:20:37.35			76,92	2							230							
PANI	e	c	2	22:20:37.99			77,33	3							228							
ZIAN	e	c	2	22:20:40.09			81,19	3							229							
GAGG			3	22:20:41.22			82,06	3							224							
RONC			3	22:20:41.78			83,22	3							228							
OZOL	e	c	2	22:20:44.21			90,09	3							225							
CARE			2	22:20:46.55			91,63	3							221							

30/10/2016	22:47:58,56	,	,											10	PERUGIA	M 3.4(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	22:47:58.56			98,14	3							222					
PANI			2	22:47:59.79			101	3							220					
ZIAN			2	22:48:01.55			44,38	2							223					
RONC			3	22:48:01.94			45,97	3							220					
GAGG			2	22:48:02.09			44,58	3							216					
OZOL	e	c	1	22:48:05.38			52,46	2							216					
CARE	e	c	2	22:48:07.96			55,08	3							215					

30/10/2016	23:06:25,39	,	,											10	MACERATA				DOUBLE EV. M 3.5(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	d	2	23:06:25.39			64,3	3														
PANI			3	23:06:25.95			65,97	3														
ZIAN	e	d	3	23:06:27.99			71,47	3														
RONC	i	d	2	23:06:28.58			71,99	3														
GAGG	e	d	2	23:06:28.82																		
OZOL	e	d	1	23:06:32.24			78,69	3														
CARE			2	23:06:34.34																		

30/10/2016	23:10:03,73	,	,											10	MACERATA				M 3.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			2	23:10:03.73			42,33	3							208							
PANI			3	23:10:05.28			44,57	3							206							
RONC			2	23:10:07.87			50,87	3							206							
ZIAN			3	23:10:08.07			47,89	3							208							
OZOL			3	23:10:11.33			57,25	3							202							
CARE			3	23:10:14.01			57,47	3							201							

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

30/10/2016	23:40:51,56	45,8315	11,6983	8,93	1		0	0	0,7	90	0	0,7	C	0,17	0	CONCO (VI)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e		2	23:40:58.25	37,3	311	63,18	3	103							0,14		-0,04	1,1	
ZIAN	e		2	23:41:00.51	50,5	348	6,82	2	100							0,18		-0,35	1,1	
VARA	e		2	23:41:02.47	62,3	269				98						0,15			1,6	

30/10/2016	23:53:24,33	,	,											10	PERUGIA	M 3.4(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	1	23:53:24.33			64,55	2							218					
PANI			2	23:53:26.00			67,69	3							218					
RONC	e	c	2	23:53:27.97			71,34	3							218					
GAGG	i	c	2	23:53:27.99			71,9	3							214					
ZIAN			2	23:53:28.11			70,89	2							218					
OZOL			2	23:53:31.75			76,97	3							214					
CARE	i	c	1	23:53:33.94			81,4	3							212					

30/10/2016	23:57:13,93	,	,											10	PERUGIA	M 3.6(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	d	1	23:57:13.93			59,28	3							249					
PANI	i	d	2	23:57:15.55			61,45	3							244					
ZIAN			3	23:57:17.26			66,96	3							251					
RONC			3	23:57:17.41			68,88	3							246					
GAGG			3	23:57:17.61			67,54	3							242					
OZOL			3	23:57:20.89			74,84	3							243					
CARE	e	d	3	23:57:23.53			77,74	3							244					

31/10/2016	00:12:05,46	,	,											10	PERUGIA			M 3.3(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	c	1	00:12:05.46			45,96	2							221					
PANI	i	c	2	00:12:07.15			48,04	3							217					
GAGG	e	c	1	00:12:08.80			53,38	3							214					
RONC	i	c	2	00:12:09.01			53,48	3							218					
ZIAN	i	c	2	00:12:09.42			50,97	2							222					
OZOL			2	00:12:13.08			58,78	2							214					
CARE			3	00:12:14.46			61,3	3							213					

31/10/2016	00:17:32,55	,	,											10	RIETI	M 3.0(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	00:17:32.55			74,74	2												
PANI			2	00:17:33.51			77,05	3												
ZIAN			2	00:17:35.63			79,5	3												
RONC			2	00:17:35.93			81	3												
GAGG			2	00:17:36.39																
OZOL			2	00:17:39.13			87,59	3												
CARE			3	00:17:42.45																

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

31/10/2016	00:31:25,81	,	,											10	PERUGIA	M 3.4(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			1	00:31:25.81			65,98	2							228					
PANI	i	d	2	00:31:27.92			68,75	3							226					
GAGG			2	00:31:29.12			72,76	3							222					
RONC	e	d	2	00:31:29.50			73,17	2							226					
ZIAN	e	d	2	00:31:29.80			72,4	3							227					
OZOL	i	d	1	00:31:33.62			81,93	3							221					
CARE			2	00:31:35.38			82,09	3							220					

31/10/2016	00:46:26,24	,	,											10	PERUGIA	M 3.2(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	00:46:26.24			66,28	2							216					
PANI	e	c	2	00:46:27.66			68,18	2							212					
GAGG	e	c	2	00:46:29.46			72,33	3							212					
RONC	i	c	1	00:46:29.71			73,22	3							214					
ZIAN	e	c	2	00:46:29.82			72,36	3							215					
OZOL	i	c	1	00:46:33.67			79,67	2							209					
CARE	e	c	1	00:46:35.63			81,9	3							209					

31/10/2016	01:02:28,43	,	,											10	PERUGIA	M 3.2(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	01:02:28.43			67,44	2							210					
PANI			3	01:02:30.27			69,81	3							210					
RONC	e	d	2	01:02:31.53			75,38	2							210					
ZIAN			3	01:02:32.47			73,11	2							208					
GAGG			3	01:02:33.61			75,29	3							207					
OZOL	e	d	2	01:02:35.65			81,09	3							208					
CARE			3	01:02:37.53			83,82	3							207					

31/10/2016	01:36:21,02	,	,											10	RIETI	M 3.1(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	01:36:21.02			62,44	2							208					
PANI	e	d	2	01:36:22.42			62,54	3							206					
RONC			2	01:36:24.22			69,2	3							206					
GAGG			3	01:36:24.42			68,24	3							203					
ZIAN			2	01:36:24.53			67,01	3							207					
OZOL	e	d	2	01:36:28.12			74,63	3							203					
CARE			3	01:36:30.44			78,13	3							203					

31/10/2016	01:49:16,25	,	,											10	MACERATA				M 3.4(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			2	01:49:16.25			53,99	3							232							
PANI			2	01:49:17.17			56,8	3							230							
ZIAN	e	d	2	01:49:18.78											233							
RONC			2	01:49:20.08											230							
GAGG			2	01:49:20.10			63,3	3							224							
OZOL	e	d	2	01:49:22.37			70,66	3							225							
CARE	e	d	3	01:49:25.71			73,19	3							223							

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

31/10/2016	02:03:18,18	,	,											10	PERUGIA	M 3.2(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	02:03:18.18			57,93	3							215					
PANI	i	d	2	02:03:20.06			61,49	3							215					
RONC	e	d	2	02:03:21.80			66,49	3							214					
GAGG	e	d	2	02:03:21.81			65,3	3							210					
ZIAN	e	d	2	02:03:22.20											215					
OZOL	i	d	2	02:03:25.76			73	3							212					
CARE	e	d	2	02:03:27.98			74,91	3							207					

31/10/2016	02:50:33,15	,	,											10	MACERATA				M 3.6(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	c	1	02:50:33.15			70,35	2							249							
PANI	e	c	1	02:50:34.88			72,91	2							247							
ZIAN	e	c	1	02:50:36.30			75,79	2							250							
RONC	e	c	2	02:50:37.15			78,73	3							248							
GAGG			3	02:50:37.33			77,72	3							242							
OZOL	e	c	1	02:50:40.06			83,21	3							244							
CARE			2	02:50:43.01			86,6	3							239							

31/10/2016	03:00:12,93	,	,											10	RIETI	M 3.4(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	03:00:12.93			54,79	1							212					
PANI			2	03:00:13.96			57,48	2							211					
ZIAN	i	c	1	03:00:16.36			61,31	2							212					
RONC	e	c	1	03:00:16.43			61,94	2							212					
GAGG	i	c	2	03:00:16.43			61,68	2							209					
OZOL	e	c	2	03:00:19.78			68,7	2							210					
CARE	i	c	2	03:00:22.43			70,37	3							208					

31/10/2016	03:06:39,21	,	,											10	PERUGIA	M 3.3(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	2	03:06:39.21			79,27	3							213					
PANI	i	d	2	03:06:41.79			81,9	3							212					
GAGG			3	03:06:42.69			86,68	3							211					
RONC			3	03:06:43.06			88,6	3							212					
ZIAN	e	d	2	03:06:44.08			84,93	2							212					
OZOL	i	d	2	03:06:47.60			93,51	3							212					
CARE			3	03:06:48.76			96,7	3							210					

31/10/2016	03:28:24,94	,	,											10	PERUGIA	M 4.2(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			1	03:28:34.94			74,83	3												
PANI	i	c	1	03:28:36.55			76,96	3												
GAGG	i	c	1	03:28:38.21			82,68	3												
RONC	e	c	1	03:28:38.31			83,62	2												
ZIAN	e	c	1	03:28:38.99			81,69	2												
OZOL	e	c	1	03:28:42.50			88,28	2												
CARE	e	c	1	03:28:44.46			93,26	3												

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

31/10/2016	03:33:31,23	,	,											10	MACERATA			M 3.7(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	03:33:31.23			70,34	3												
PANI			3	03:33:32.02																
ZIAN	i	c	2	03:33:34.40																
GAGG			3	03:33:35.16																
RONC			3	03:33:35.57																
OZOL	i	c	2	03:33:37.94																
CARE	i	c	2	03:33:40.61																

31/10/2016	03:38:43,16	,	,											10	RIETI	M 3.0(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	03:38:43.16			83,46	3							196					
PANI	i	c	2	03:38:44.52			86,69	3							194					
ZIAN			2	03:38:46.28			90,68	3							196					
GAGG			3	03:38:46.75			90,2	3							191					
RONC			3	03:38:46.83			91,74	3							194					
OZOL	i	c	2	03:38:50.09			99,34	3							190					
CARE			3	03:38:52.43			101,7	3							191					

31/10/2016	03:50:18,68		,	,											10	MACERATA	M 3.0(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	03:50:18.68			56,37	2							203					
PANI	i	c	2	03:50:20.46			58,48	3							199					
ZIAN			3	03:50:22.30			61,65	3							203					
GAGG			3	03:50:22.85			63,12	3							196					
RONC			2	03:50:23.83			64,74	3							201					
OZOL	e	c	2	03:50:25.70			70,28	3							197					
CARE	i	c	2	03:50:29.71			74,64	3							195					

31/10/2016	04:21:22,46	,	,											10	MACERATA			M 3.2(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	04:21:22.46			61,98	3												
PANI			2	04:21:23.80			63,8	3												
ZIAN			2	04:21:25.42			68,17	3												
GAGG			3	04:21:26.43																
RONC			3	04:21:26.74			70,17	3												
OZOL	e	d	2	04:21:29.17			75,89	3												
CARE			3	04:21:32.08																

31/10/2016	04:23:13,05	,	,											10	PERUGIA	M 3.4(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	04:23:13.05			52,98	3							234					
PANI			3	04:23:14.50											230					
ZIAN	i	d	2	04:23:16.89			57,07	3							235					
RONC			3	04:23:17.52			60,12	3							231					
OZOL	i	d	2	04:23:20.31			68,15	3							226					
CARE			3	04:23:22.59											225					



# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

31/10/2016	04:34:44,53	,	,											10	PERUGIA	M 3.0(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	04:34:44.53			85,18	3							185					
PANI			3	04:34:45.70			87,9	3							182					
ZIAN			3	04:34:47.21			91,01	3							185					
GAGG			3	04:34:48.16											182					
RONC			3	04:34:48.18			91,62	3							183					
OZOL	i	d	2	04:34:51.24			99,27	3							182					
CARE			3	04:34:53.60											180					

31/10/2016	04:50:10,67	,	,											10	PERUGIA				DOUBLE EV. M 3.2(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			2	04:50:10.67			50,5	2														
PANI			3	04:50:13.10			53,79	3														
GAGG			3	04:50:14.19			57,82	3														
RONC	e	c	2	04:50:14.49			58,04	2														
ZIAN	i	c	2	04:50:15.03			57,33	3														
OZOL			2	04:50:18.49			65,31	3														
CARE			3	04:50:20.48			68,39	3														

31/10/2016	05:16:00,25	,	,											10						
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	c	2	05:16:00.25											172					
PANI	i	c	2	05:16:01.48			42,08	3							171					
RONC	e	c	2	05:16:03.31			46,85	3							170					
ZIAN	e	c	2	05:16:03.41			45,6	3							172					
GAGG			3	05:16:03.60											172					
OZOL			2	05:16:07.07			54,08	3							170					
CARE			3	05:16:09.38											170					

31/10/2016	05:19:01,67	,	,											10	ASCOLI PICENO				DOUBLE EV. M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	d	2	05:19:01.67			42,24	2														
PANI			3	05:19:02.90			43,83	3														
ZIAN			3	05:19:04.76																		
RONC	e	d	2	05:19:05.01			49,9	3														
GAGG			3	05:19:05.32			49,76	3														
OZOL	e	d	2	05:19:08.27			56,81	2														
CARE			3	05:19:11.18			59,24	3														

31/10/2016	06:18:16,26	,	,											10	ASCOLI PICENO	M 3.9(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	06:18:16.26			56,89	3							269					
PANI	e	c	1	06:18:17.26			58,41	3							267					
ZIAN			2	06:18:19.17			65,22	3							270					
GAGG			2	06:18:19.38			65,03	3							264					
RONC	e	c	1	06:18:19.49			64,81	3							268					
OZOL	e	c	1	06:18:22.83			71,52	2							264					
CARE			2	06:18:25.14			73,78	3							262					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

31/10/2016	07:02:58,76	,	,											10	PERUGIA	M 3.0(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		2		07:02:58.76			98,61	3												
PANI		2		07:02:59.88			99,37	3												
GAGG		3		07:03:01.77																
ZIAN		2		07:03:02.01																
RONC		2		07:03:02.13			45,99	3												
OZOL		2		07:03:05.55																
CARE		3		07:03:08.03																

31/10/2016	07:06:39,39	,	,											10	PERUGIA	M 4.2(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	07:06:39.39			79,89	3												
PANI			2	07:06:40.52			81,8	3												
RONC	e	c	1	07:06:42.54			87,91	3												
ZIAN	e	c	1	07:06:42.73			86,64	3												
GAGG			2	07:06:42.83			86,73	3												
OZOL	e	c	2	07:06:46.31			94,61	3												
CARE	e	c	2	07:06:48.64			96,42	3												

31/10/2016	07:11:15,75	,	,											10	MACERATA	M 3.3(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	d	2	07:11:15.75			54,48	3							210					
PANI			3	07:11:16.57			55,58	3							205					
ZIAN			3	07:11:18.88											212					
GAGG	i	d	2	07:11:19.57											208					
RONC			3	07:11:19.75			64,19	3							207					
OZOL			3	07:11:22.20											206					
CARE	i	d	3	07:11:25.13											207					

31/10/2016	08:38:26,20	,	,											10	MACERATA			M 3.5(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	08:38:26.20			63,23	3												
PANI			3	08:38:27.35			66,38	3												
ZIAN			3	08:38:29.22			70,11	3												
GAGG			3	08:38:30.55			71,07	3												
RONC			3	08:38:30.79			72,09	3												
OZOL			3	08:38:33.32			77,73	3												
CARE	i	d	3	08:38:35.80			82,22	3												

31/10/2016	08:41:31,36	,	,											10	PERUGIA	M 3.3(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		2		08:41:31.36			71,58	3												
PANI		3		08:41:33.00			73,61	3												
GAGG		3		08:41:34.32																
RONC		3		08:41:34.64			80,05	3												
ZIAN		3		08:41:34.99			76,67	3												
OZOL		3		08:41:39.25																
CARE		3		08:41:40.53			86,48	3												

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

31/10/2016	08:59:05,16	,	,												10	PERUGIA	M 3.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		2		08:59:05.16			45,29	3							201					
PANI		2		08:59:06.45			46,42	3							199					
GAGG		3		08:59:08.73			52,73	3							199					
RONC		3		08:59:08.94			52,86	3							198					
OZOL		2		08:59:11.97			58,65	3							199					
CARE		3		08:59:14.78			62,34	3							199					

31/10/2016	09:05:40,32	,	,												10	PERUGIA	M 2.9(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	09:05:40.32			80,5	3												
PANI			2	09:05:42.22																
ZIAN			3	09:05:44.04																
GAGG			3	09:05:44.23																
RONC			3	09:05:44.28			87,18	3												
OZOL			3	09:05:47.55																
CARE			3	09:05:50.23																

31/10/2016	09:35:12,71	,	,												10	PERUGIA	M 3.6(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	09:35:12.71			52,37	3												
PANI	e	c	2	09:35:13.87			56,17	3												
ZIAN	e	c	2	09:35:15.97			59,79	3												
RONC			2	09:35:16.15			59,98	3												
GAGG			3	09:35:16.19			59,22	3												
OZOL			2	09:35:19.41																
CARE			3	09:35:22.07			69,33	3												

31/10/2016	09:38:00,19	,	,											10	MACERATA				M 3.0(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	i	c	2	09:38:00.19			39,03	3														
PANI			3	09:38:02.05																		
RONC	e	c	2	09:38:04.67			46	3														
CARE			3	09:38:10.16																		

31/10/2016	10:19:32,86	,	,											10	MACERATA				M 3.0(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			3	10:19:32.86			71,06	2							183							
PANI			3	10:19:34.00			73,11	3							180							
GAGG			3	10:19:36.11			76,97	3							182							
RONC			3	10:19:36.75			79,97	3							181							
OZOL	i	c	2	10:19:39.35											181							
CARE	i	c	3	10:19:42.26											181							

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

31/10/2016	11:04:00,36	,	,											10	PERUGIA	M 3.3(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	11:04:00.36			40,2	2							214					
PANI	e	d	2	11:04:02.36			43,6	3							212					
GAGG	e	d	2	11:04:03.70			46,3	3							210					
RONC	e	d	1	11:04:04.02			48,16	3							213					
ZIAN	e	d	2	11:04:04.55			46,55	3							213					
OZOL	e	d	2	11:04:08.20			55,47	2							211					
CARE	i	d	2	11:04:10.04											208					

31/10/2016	14:32:18,06	,	,											10	MACERATA				M 3.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	i	d	2	14:32:18.06			55,9	3							215							
PANI			3	14:32:19.30											212							
ZIAN	i	d	2	14:32:21.35											216							
GAGG			3	14:32:22.42											212							
RONC			3	14:32:22.64											213							
OZOL			3	14:32:25.09											213							
CARE			3	14:32:27.35											210							

31/10/2016	15:09:00,69	,	,												10	PERUGIA	M 3.2(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	15:09:00.69			41,81	2							199					
PANI			3	15:09:03.16			44,34	3							196					
GAGG			3	15:09:04.95			48,2	3							194					
RONC			3	15:09:05.45			49,92	3							197					
OZOL			3	15:09:08.95			56,38	3							194					
CARE			3	15:09:10.32											192					

31/10/2016	15:30:38,39	,	,											10	PERUGIA	M 2.9(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	c	2	15:30:38.39			78,68	3							185					
PANI	i	c	2	15:30:39.51			81,43	3							182					
ZIAN			3	15:30:41.46			85,52	3							185					
GAGG			3	15:30:41.73											179					
RONC			3	15:30:42.11			86,78	3							183					
OZOL			2	15:30:45.17											180					
CARE			3	15:30:47.55											175					

31/10/2016	15:56:21,61	,	,											10	MACERATA			M 3.4(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	15:56:21.61			59,87	3							235					
PANI			2	15:56:22.71			62,99	3							233					
RONC	e	c	1	15:56:25.65			68,24	2							233					
GAGG			3	15:56:26.19											230					
OZOL	i	c	2	15:56:28.61											232					
CARE			3	15:56:31.00			77,84	3							226					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

31/10/2016	17:15:40,02	,	,											10	PERUGIA	M 3.2(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	17:15:40.02			79,23	3							207					
PANI	i	c	2	17:15:41.72			82,59	3							204					
GAGG			3	17:15:43.19			86,8	3							203					
RONC	i	c	2	17:15:43.38			87,09	3							206					
ZIAN			2	17:15:43.59			86,64	3							206					
OZOL	e	c	2	17:15:47.41			94,18	3							204					
CARE			3	17:15:49.13			95,9	3							201					

31/10/2016	17:41:25,20	,	,											10	MACERATA			M 3.1(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	17:41:25.20			63,64	2							209					
PANI			3	17:41:25.83			64,84	3							207					
ZIAN	e	c	2	17:41:27.93			68,16	2							210					
GAGG			3	17:41:28.53											209					
RONC			3	17:41:29.01			71,49	3							207					
OZOL	i	c	2	17:41:31.75			76,15	3							207					
CARE	i	c	2	17:41:34.03			78,49	3							208					

31/10/2016	20:25:10,66	,	,											10	MACERATA	M 3.2(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	d	1	20:25:10.68			48,65	1							192					
PANI			3	20:25:11.23			50,49	3							188					
ZIAN	i	d	2	20:25:13.43			54,99	3							192					
GAGG			3	20:25:13.70											188					
RONC	e	d	2	20:25:14.45			57,14	3							189					
OZOL	i	d	2	20:25:17.03			63,41	3							187					

31/10/2016	21:10:04,50	,	,											10	MACERATA			DOUBLE EV. M 3.0(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	d	2	21:10:04.50			42,78	3												
PANI			3	21:10:05.76																
ZIAN	i	d	2	21:10:07.60																
RONC	i	d	2	21:10:08.50			52,47	3												
GAGG			3	21:10:08.53																
OZOL	i	d	1	21:10:11.28			56,46	3												
CARE			3	21:10:14.11																

31/10/2016	22:25:47,78	,	,											10	PERUGIA	M 3.3(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	22:25:47.78			86,93	2							220					
PANI	e	d	2	22:25:49.33			90,31	3							218					
RONC			2	22:25:51.12			95,05	3							218					
GAGG	e	d	2	22:25:51.41			93,88	3							216					
ZIAN	i	d	2	22:25:51.65			93,8	2							221					
OZOL	i	d	1	22:25:55.19			101	2							217					
CARE	i	d	2	22:25:57.41											214					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

31/10/2016	23:01:05,18	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	i	d	0	23:01:05.18			6,06	1							27					

31/10/2016	23:56:47,58	,	,											10	MACERATA	M 3.2(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	23:56:47.58			85,99	3							207					
PANI	e	c	3	23:56:48.22			87,8	3							205					
ZIAN	i	c	2	23:56:50.40			90,6	2							207					
GAGG			3	23:56:51.11			91,28	3							202					
RONC			3	23:56:51.71			94,23	3							204					
OZOL	i	c	2	23:56:54.12			98,57	2							202					
CARE	i	c	3	23:56:56.64			101,5	3							202					

01/11/2016	00:28:57,85	,	,											10	MACERATA				M 3.0(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	i	c	2	00:28:57.85			96,62	3							198							
PANI	i	c	2	00:28:58.81											196							
ZIAN	i	c	3	00:29:00.21											199							
GAGG			3	00:29:01.32											193							
RONC			3	00:29:01.54											196							
OZOL	e	c	2	00:29:04.58											192							
CARE	i	c	3	00:29:07.08											190							

01/11/2016	00:37:30,45	,	,											10	PERUGIA	M 3.2(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	c	2	00:37:30.45			69,89	2							206					
PANI			2	00:37:32.16			71,29	3							205					
ZIAN	e	c	3	00:37:33.70			75,3	3							207					
RONC	e	c	2	00:37:33.92			76,68	3							204					
GAGG	e	c	2	00:37:33.94			77,39	3							202					
OZOL	e	c	1	00:37:37.31			83,42	3							203					
CARE	e	c	2	00:37:40.21			86,39	3							200					

01/11/2016	00:41:27,16	,	,											10	MACERATA				M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	d	2	00:41:27.16			66,38	3							197							
PANI			3	00:41:29.18			68,96	3							198							
ZIAN	e	d	2	00:41:30.68			71,29	3							196							
GAGG	e	d	2	00:41:31.08											198							
RONC	e	d	2	00:41:31.15			73,18	3							197							
OZOL	e	d	2	00:41:34.29			81,34	3							198							
CARE	i	d	2	00:41:37.02											197							

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA		NOTES	
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q						

01/11/2016	02:07:28,11	,	,											10						
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	1	02:07:28.11			69,36	2							208					
PANI	e	d	2	02:07:29.21			73,24	3							207					
ZIAN	i	d	1	02:07:31.44			75,1	3							209					
GAGG	e	d	1	02:07:31.50			76,52	3							204					
RONC	e	d	2	02:07:31.75			75,7	3							207					
OZOL	i	d	1	02:07:35.13			84,85	3							204					
CARE	e	d	2	02:07:37.54			86,52	3							202					

01/11/2016	02:36:45,23	,	,											10	RIETI	M 3.2(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	2	02:36:45.23			86,78	3							213					
PANI			3	02:36:47.03			88,98	3							214					
ZIAN	i	d	2	02:36:48.79			91,91	3							213					
GAGG			3	02:36:48.84			93,11	3							214					
RONC	e	d	2	02:36:49.09			93,85	3							213					
OZOL	e	d	2	02:36:52.36			99,14	3							213					
CARE	e	d	3	02:36:54.89			103,6	3							213					

01/11/2016	03:19:57,80	,	,											10	ASCOLI PICENO				M 3.7(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	d	1	03:19:57.80			95,58	3							249							
PANI	e	d	1	03:19:58.71			98,22	3							246							
GAGG	e	d	1	03:20:00.86											242							
ZIAN	i	d	1	03:20:00.88			41,87	3							251							
RONC	e	d	1	03:20:01.01			44,41	3							246							
OZOL	i	d	1	03:20:04.54			47,95	3							243							
CARE	e	d	1	03:20:06.99			53,73	3							240							

01/11/2016	03:54:18,35	,	,											10	PERUGIA	M 2.8(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	03:54:18.35			58,68	3							179					
PANI	i	c	2	03:54:21.01			61,29	3							177					
RONC			3	03:54:21.74			65,97	3							177					
GAGG			3	03:54:21.89			65,27	3							174					
ZIAN			3	03:54:22.59			65,72	3							179					
OZOL	e	c	2	03:54:26.32			72,58	3							173					
CARE			3	03:54:27.99											174					

01/11/2016	04:10:12.59	,	,											10	L'AQUILA				M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	d	1	04:10:12.59			53,44	2														
PANI	i	d	2	04:10:13.62			55,78	3														
GAGG	e	d	2	04:10:15.57			60,5	3														
ZIAN	i	d	1	04:10:15.58			59,68	3														
RONC			2	04:10:15.73			60,4	3														
OZOL	i	d	1	04:10:19.26			67,76	3														
CARE	i	d	2	04:10:21.65			69,96	3														

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

01/11/2016	04:56:36,83	,	,											10	PERUGIA	M 3.0(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	04:56:36.83			77,46	2							198					
PANI			2	04:56:39.20			80,24	3							197					
RONC	e	c	2	04:56:40.42			84,26	3							198					
ZIAN			3	04:56:40.51			84,24	3							199					
GAGG	e	c	2	04:56:40.62			83,99	3							194					
OZOL	e	c	3	04:56:44.27			91,9	3							194					
CARE			3	04:56:46.40											193					

01/11/2016	06:36:58,31	,	,											10	MACERATA				M 3.6(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	c	2	06:36:58.31			96,35	2							239							
PANI	e	c	1	06:36:59.29			98,04	3							237							
ZIAN	e	c	1	06:37:01.48			41,31	2							239							
GAGG	e	c	2	06:37:01.59			42,86	3							235							
RONC			3	06:37:02.48											237							
OZOL	e	c	2	06:37:05.20			51,12	3							235							
CARE	i	c	1	06:37:07.54			52,48	3							234							

01/11/2016	06:44:25,89	,	,											10	MACERATA				M 3.2(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	c	2	06:44:25.89			65,07	3							210							
PANI	e	c	2	06:44:26.72			66,12	3							210							
ZIAN	e	c	2	06:44:29.28											210							
RONC	e	c	3	06:44:30.01			75,68	3							209							
GAGG			2	06:44:30.19											207							
OZOL	e	c	2	06:44:32.68			79,93	3							208							
CARE	i	c	2	06:44:35.00			83,29	3							207							

01/11/2016	07:57:32,22	,	,											10	MACERATA				M 4.8(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	d	2	07:57:32.22			71,18	3														
PANI	e	d	2	07:57:33.51			74,53	3														
ZIAN	e	d	2	07:57:35.38			77,85	3														
RONC	e	d	2	07:57:36.06			79,99	3														
GAGG			2	07:57:36.18			77,16	3														
OZOL	e	d	2	07:57:39.03			85,91	3														
CARE	e	d	2	07:57:41.60			88,74	3														

01/11/2016	08:02:19,51	,	,											10	PERUGIA				M 3.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			3	08:02:19.51			57,51	3														
PANI			3	08:02:20.45																		
ZIAN			3	08:02:22.48																		
RONC			3	08:02:23.94			65,21	3														
GAGG			3	08:02:24.49																		
OZOL			3	08:02:26.28			72,06	3														
CARE			3	08:02:27.18			75,62	3														



# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

01/11/2016	10:48:11,51	,	,											10	FIRENZE	M 3.1(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	c	1	10:48:11.51																
RONC			2	10:48:14.40																
GAGG			2	10:48:15.29			45,75	3												
PANI			3	10:48:15.40			46,06	3												
ZIAN	e	c	2	10:48:18.42			49,45	2												
OZOL	e	c	2	10:48:20.08			53,26	2												
CARE	e	c	2	10:48:20.96			54,25	3												

01/11/2016	11:33:40,10	,	,											10	RIETI	M 3.2(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	11:33:40.10			81,28	3							206					
PANI			3	11:33:41.38			84,37	3							202					
ZIAN			3	11:33:43.28			87,36	3							208					
RONC	e	c	2	11:33:43.63			88,86	3							204					
GAGG	i	c	2	11:33:44.51			87,38	3							199					
OZOL	e	c	1	11:33:47.14			95,28	3							199					
CARE			3	11:33:49.58			98	3												

01/11/2016	11:34:55,20	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	i	c	0	11:34:55.20			55,94	1							33					

01/11/2016	11:42:48,48	,	,											10	RIETI	M 3.2(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	11:42:48.48			88,69	2							206					
PANI	e	d	2	11:42:49.78			91,49	2							204					
RONC			3	11:42:51.42			95,63	3							204					
ZIAN	i	d	2	11:42:51.77			94,47	3							208					
GAGG			3	11:42:52.01			94,57	3							204					
OZOL	i	d	2	11:42:55.04			102,5	3							204					
CARE			3	11:42:57.73			105,1	3							205					

01/11/2016	11:55:22,11	,	,											10	PERUGIA	M 3.0(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	11:55:22.11			62,86	2							198					
PANI			3	11:55:23.41			65,74	3							195					
ZIAN			2	11:55:25.36			70,11	3							198					
GAGG			3	11:55:25.67											193					
RONC	e	c	2	11:55:25.71			70,33	3							195					
OZOL	i	c	2	11:55:28.96			76,04	3							192					
CARE	i	c	2	11:55:31.67											192					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA		NOTES	
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q					

01/11/2016	14:11:45,24	,	,											10						
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		3		14:11:45.24			82,04	3							193					
PANI		3		14:11:46.81			84,4	3							192					
ZIAN		3		14:11:48.67			89,97	3							193					
GAGG		3		14:11:49.16			90,88	3							191					
RONC		3		14:11:49.96			91,12	3							189					
OZOL		2		14:11:52.70			97,34	3							190					
CARE		3		14:11:55.26											188					

01/11/2016	15:14:37,42	,	,											10	MACERATA				M 3.6(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	c	2	15:14:37.42			77	3							248							
PANI	e	c	1	15:14:38.45											245							
RONC	e	c	2	15:14:40.64			85,74	3							246							
GAGG	e	c	2	15:14:40.70			85,75	3							241							
ZIAN	i	c	1	15:14:40.71			81,84	2							248							
OZOL	e	c	2	15:14:44.34											240							
CARE	i	c	1	15:14:46.82			93,35	3							239							

01/11/2016	16:01:54,20	,	,											10	PERUGIA	M 3.3(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	d	1	16:01:54.20			93,59	2							216					
PANI	i	d	1	16:01:55.38			95,93	3							214					
RONC	e	d	2	16:01:57.39			101,5	3							215					
ZIAN	i	d	1	16:01:57.54			100,3	3							216					
GAGG	i	d	2	16:01:57.65			101,2	3							211					
OZOL	e	d	1	16:02:01.05			48,39	2							211					
CARE	e	d	2	16:02:03.53			50,69	3							209					

01/11/2016	16:31:24.65	,	,											10	MACERATA				M 3.2(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	c	2	16:31:24.65			63,84	2							205							
PANI	e	c	2	16:31:25.81			66,76	3							205							
ZIAN	i	c	2	16:31:27.51			68,87	3							208							
RONC	e	c	2	16:31:27.91			71,49	3							204							
GAGG			3	16:31:28.21			69,95	3							204							
OZOL	i	c	2	16:31:31.47			77,61	3							204							
CARE	i	c	2	16:31:33.80			82,06	3							202							

01/11/2016	17:06:29,08	,	,											10	PERUGIA	M 3.3(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	17:06:29.08			68,88	3							218					
PANI			3	17:06:31.09			71,04	3							213					
GAGG	e	c	2	17:06:32.45			76,45	3							211					
RONC	i	c	2	17:06:32.58			76,64	3							215					
ZIAN	e	c	2	17:06:33.31			74,84	3							218					
OZOL	e	c	2	17:06:36.30			81,39	3							211					
CARE	i	c	2	17:06:38.48			86,29	3							209					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

01/11/2016	18:00:08,06	,	,											10	PERUGIA	M 3.5(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	18:00:08.06			48,41	2												
PANI	e	c	3	18:00:09.22			49,78	3												
RONC			2	18:00:11.42			56,22	3												
ZIAN	e	c	2	18:00:11.43			55,33	3												
GAGG	i	c	2	18:00:11.59			56,39	3												
OZOL	e	c	2	18:00:14.99			61,78	3												
CARE	i	c	2	18:00:17.68			63,84	3												

01/11/2016	18:03:49,16	,	,											10	MACERATA				M 3.8(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	c	2	18:03:49.16																		
PANI	e	c	2	18:03:50.63																		
ZIAN			2	18:03:52.16																		
RONC			2	18:03:52.43																		
GAGG			2	18:03:52.79																		
OZOL	e	c	2	18:03:56.30																		
CARE	i	c	2	18:03:58.64																		

01/11/2016	18:04:03,07	,	,											10	PERUGIA	M 3.9(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	18:04:03.07																
PANI			3	18:04:04.80																
ZIAN			3	18:04:06.63																
GAGG			3	18:04:07.22																
RONC			3	18:04:07.46																
OZOL			3	18:04:09.91																
CARE			3	18:04:11.99																

01/11/2016	18:48:47,21	,	,											10	RIETI	M 3.4(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	2	18:48:47.21			88,6	2							231					
PANI	e	d	2	18:48:48.34			90,08	3							228					
RONC	e	d	2	18:48:50.58			96,93	2							228					
ZIAN	i	d	1	18:48:50.58			93,87	2							230					
GAGG	e	d	2	18:48:50.60			93,9	3							226					
OZOL	i	d	1	18:48:54.28			102,1	3							226					
CARE	i	d	1	18:48:56.72			104,7	2							223					

01/11/2016	19:04:14,83	,	,											10	PERUGIA	M 3.7(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	19:04:14.83			56,15	2							253					
PANI	e	d	1	19:04:16.63			57,96	2							252					
GAGG			2	19:04:17.96			62,27	3							254					
RONC			2	19:04:18.38			63,4	3							252					
ZIAN	i	d	2	19:04:19.00			60,08	3							251					
OZOL	i	d	1	19:04:22.55			68,59	3							253					
CARE	e	d	2	19:04:24.52			73,46	3							253					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

01/11/2016	20:39:15,24	,	,											10	MACERATA				M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	d	2	20:39:15.24			53,45	2							210							
PANI			3	20:39:16.37			55,93	3							206							
ZIAN	i	d	2	20:39:18.18			59,58	3							213							
GAGG	e	d	2	20:39:18.58			60,86	3							203							
RONC			3	20:39:19.25			60,25	2							207							
OZOL	e	d	2	20:39:21.65			66,26	3							202							
CARE			3	20:39:24.37			69,23	3							202							

01/11/2016	20:47:18,71	,	,											10	MACERATA				M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	d	2	20:47:18.71			55,76	3							193							
PANI			3	20:47:20.25			57,78	3							190							
ZIAN	e	d	2	20:47:21.84			61,06	3							193							
RONC			3	20:47:22.66			64,69	3							190							
GAGG			3	20:47:22.97			62,28	3							188							
OZOL	i	d	2	20:47:25.40			70,17	3							189							
CARE			3	20:47:28.10											187							

01/11/2016	22:24:28,89	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	d	1	22:24:28.89			29,7	1												

02/11/2016	05:31:53,16	,	,												10	MACERATA			M 3.2(I)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	05:31:53.16											204					
ZIAN			3	05:31:56.10			96,67	3							204					
RONC			3	05:31:56.68			99,46	3							202					
GAGG			3	05:31:56.95			98,61	3							203					
OZOL			3	05:31:59.85			106,7	3							201					
CARE			3	05:32:02.84			48,84	3							199					

02/11/2016	06:08:40,31	,	,												10	PERUGIA	M 3.4(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	2	06:08:43.31																
GAGG			3	06:08:46.87																
RONC	i	d	2	06:08:47.23																
OZOL	i	d	2	06:08:51.34																
CARE			3	06:08:53.08																

02/11/2016	06:09:46,37	,	,												10	MACERATA	M 3.5(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
GAGG			3	06:09:46.37											231					
RONC			3	06:09:48.28											232					
OZOL			3	06:09:48.39			90,84	3							229					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

02/11/2016	06:42:08,76	,	,											10	PERUGIA	M 3.5(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	1	06:42:08.76			49,56	3							229					
PANI			3	06:42:10.17			51,26	3							227					
RONC	e	c	2	06:42:11.90			55,98	3							226					
GAGG			3	06:42:12.09			57,95	3							223					
OZOL	e	c	2	06:42:15.56			63,54	3							222					
CARE	i	c	2	06:42:17.87			65,24	3							221					

02/11/2016	06:55:34,73	,	,											10	PARMA	M 2.6(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	1	06:55:34.73			50,65	2							161					
RONC	e	d	1	06:55:36.32			52,58	1							160					
GAGG	i	d	1	06:55:38.80			56,11	2							159					
PANI	i	d	1	06:55:40.37			58,18	2							157					
CARE	e	d	2	06:55:43.11			63,58	2							157					
OZOL			2	06:55:43.78			65,48	3							156					
ZIAN	e	d	1	06:55:44.45			65,98	2							162					

02/11/2016	09:28:36,85		,	,											10	MACERATA	M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	09:28:36.85			74,14	2								198				
GAGG			3	09:28:40.46			79,95	3								195				
RONC			2	09:28:41.49			81,68	3								195				
OZOL	i	c	2	09:28:43.17			87,26	3								194				
CARE	i	c	3	09:28:45.79												195				

02/11/2016	11:14:48,40	,	,											10	ASCOLI PICENO			M 3.3(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	11:14:48.40			89,22	2												
PANI	e	d	2	11:14:49.56			91,16	3												
ZIAN	i	d	2	11:14:51.46			94,68	3												
RONC	e	d	2	11:14:51.79			96,15	3												
GAGG	e	d	2	11:14:51.86			94,78	3												
OZOL	i	d	2	11:14:55.07			103,3	3												
CARE	i	d	3	11:14:57.44			105,5	3												

02/11/2016	12:06:07,18	,	,											10	MACERATA	M 3.1(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	12:06:07.18			45,67	2							192					
PANI	i	c	2	12:06:08.67			48,31	3							189					
GAGG			3	12:06:10.73			53,2	3							186					
RONC			3	12:06:11.33			53,4	3							189					
OZOL	i	c	2	12:06:14.43			59,28	3							186					
CARE	i	c	2	12:06:16.48			64,35	3							184					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

02/11/2016	15:18:25,66	,	,												10	PERUGIA	M 3.0(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	c	1	15:18:25.66			65,65	3							186					
PANI			3	15:18:27.30											184					
GAGG			3	15:18:28.64											185					
RONC			3	15:18:28.83			73,72	3							183					
OZOL	i	c	2	15:18:32.67											185					
CARE	i	c	3	15:18:34.72											184					

02/11/2016	15:52:11,33	46,1319	11,1840	5,43	1,1		0	0	1,2	90	0	1,2	C	0,09	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	1	15:52:14.01	14,8	128				110						-0,01			1,1	
GAGG	e	c	2	15:52:14.55	18,2	253				107						-0,03			1,1	
ZIAN	e		2	15:52:17.03	33,4	61				99						-0,08			1,1	

02/11/2016	15:53:54,41	,	,												10	MACERATA			M 3.4(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
VARA			3	15:53:54.41			91,7	2							219						
PANI			3	15:53:56.41			93,21	3							216						
GAGG			3	15:53:58.64			98,87	3							215						
RONC			3	15:53:58.82			101,2	3							216						
OZOL			3	15:54:02.26											214						
CARE			3	15:54:05.11											211						

02/11/2016	16:13:06,11	,	,											10	RIETI				M 2.9(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	i	c	2	16:13:06.11			46,88	3							179							
PANI			2	16:13:07.48			49,84	3							178							
RONC			3	16:13:09.65			54,13	3							177							
GAGG			3	16:13:09.87											171							
OZOL			3	16:13:13.00			61,07	3							174							

02/11/2016	17:09:26,50	,	,											10	C. MARCH. MACERATES	M 3.3(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e	c	3	17:09:26.50			66,65	3							210					
VARA	e	c	2	17:09:26.70			66,61	2							212					
ZIAN			3	17:09:27.96			69,56	3							214					
GAGG	e	c	2	17:09:29.19			72,39	3							208					
RONC	e	c	2	17:09:30.08			72,23	3							211					
OZOL	e	c	2	17:09:32.29			76,97	2							208					
CARE			3	17:09:35.00											204					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

02/11/2016	19:27:41,42	,	,											10	MACERATA	M 3.4(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	19:27:41.42																
PANI	i	c	2	19:27:42.52																
ZIAN			3	19:27:44.11			85,34	3												
GAGG			3	19:27:44.80																
RONC			3	19:27:45.02																
OZOL	e	c	2	19:27:48.08																
CARE	i	c	3	19:27:50.63																

02/11/2016	19:28:34.98	,	,											10	MACERATA			M 3.4(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	c	2	19:28:34.98			73,45	3							222					
ZIAN			3	19:28:38.89											220					
RONC			3	19:28:39.42			80,85	3							220					

02/11/2016	19:38:43,99	,	,											10	PERUGIA				M 3.7(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	d	2	19:38:43.99			84,29	2							249							
PANI	e	d	2	19:38:45.16			86,11	3							251							
GAGG			2	19:38:47.51											253							
ZIAN	i	d	2	19:38:47.59											248							
RONC			2	19:38:47.67			92,33	3							251							
OZOL	e	d	2	19:38:51.17			98,91	3							252							
CARE	e	d	2	19:38:53.35			101	3							249							

02/11/2016	21:58:28,38	,	,											10	MACERATA				DOUBLE EV. M 3.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	c	2	21:58:28.38			68,94	3														
PANI			3	21:58:29.71																		
ZIAN			3	21:58:31.63			73,42	3														
GAGG			3	21:58:32.27																		
RONC	e	c	3	21:58:32.27																		
OZOL	i	c	1	21:58:35.38																		
CARE	e	c	3	21:58:37.62																		

02/11/2016	22:11:48,10	,	,											10	MACERATA				M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	i	d	2	22:11:48.10			85,27	3							196							
RONC			3	22:11:51.31			93,79	3							194							
GAGG			3	22:11:51.43											191							
ZIAN	i	d	2	22:11:51.53											198							
OZOL	i	d	2	22:11:54.87			98,06	3							192							
CARE			3	22:11:57.51			104,2	3							190							

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

02/11/2016	22:57:59,50	,	,											10	RIETI	M 3.1(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	22:57:59.50			100,9	2							188					
PANI			3	22:58:01.02			45,01	3							186					
ZIAN	i	c	2	22:58:02.93			47,01	2							188					
RONC			2	22:58:03.08			48,88	3							186					
GAGG	e	c	2	22:58:03.15			48,4	3							184					
OZOL	i	c	1	22:58:06.69			55,02	2							184					
CARE	e	c	2	22:58:09.17			57,36	3							183					

03/11/2016	00:35:52,76	,	,											10	MACERATA				M 4.7(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	d	2	00:35:52.76			90,92	2							442							
PANI	e	d	2	00:35:53.79			93,02	3							437							
ZIAN	e	d	2	00:35:55.91			96,67	3							442							
RONC	e	d	2	00:35:55.98			99,91	2							439							
GAGG	e	d	2	00:35:56.22			98,22	3							436							
OZOL	e	d	2	00:35:59.70			102,5	3							434							
CARE	i	d	2	00:36:02.17											431							

03/11/2016	00:48:09,07	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	0	00:48:09.07			9,88	0							29					

03/11/2016	01:19:28,91	,	,												10	RIETI	M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	01:19:28.91			72,94	3							199					
PANI			3	01:19:29.88											198					
ZIAN	e	c	2	01:19:32.06			79,28	3							200					
RONC	i	c	2	01:19:32.39			78,92	3							197					
GAGG			2	01:19:32.41			79,5	3							194					
OZOL	i	c	2	01:19:35.80			84,07	3							195					
CARE	i	c	2	01:19:38.41			89,03	3							193					

03/11/2016	01:47:21,12	,	,											10	MACERATA				M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	c	2	01:47:21.12			57,92	2							196							
PANI			3	01:47:23.99			59,9	3							193							
ZIAN			2	01:47:24.78			63,21	2							198							
GAGG			3	01:47:25.07			64,98	3							190							
RONC			3	01:47:26.23			65,81	2							193							
OZOL			3	01:47:28.64			70,92	3							191							
CARE			3	01:47:31.87											186							



# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

03/11/2016	02:39:25,76	,	,											10	RIETI	M 3.2(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	02:39:25.76			65,74	3							210					
PANI			3	02:39:27.02			67,49	3							206					
ZIAN	i	c	2	02:39:28.75			68,45	3							210					
GAGG			2	02:39:29.09			72,32	3							203					
RONC	i	c	2	02:39:29.85			74,02	3							208					
OZOL	e	c	2	02:39:32.41			80,63	3							203					
CARE	i	c	3	02:39:34.84			82,01	3							202					

03/11/2016	04:24:58,21	,	,											0	VARA					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	c	1	04:24:58.21			58,62	2							28					

03/11/2016	05:48:57,18		,		,											10	SINGEN [D]			M 3.0(S)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
CARE			3	05:48:57.18			82,32	2							169							
OZOL			3	05:49:02.88			29,29	2							172							
RONC			3	05:49:04.03			33	3							173							
GAGG			3	05:49:06.39			34,16	2							172							
ZIAN			3	05:49:08.07			39,49	2							175							
DOSS			3	05:49:10.01			42,11	2							170							

03/11/2016	06:22:25,52	,	,											10	ASCOLI PICENO			M 2.8(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	2	06:22:25.52			66,29	3							174					
DOSS			3	06:22:25.86			65,34	3							169					
PANI	i	d	2	06:22:26.69											172					
GAGG			3	06:22:29.03											169					
RONC			2	06:22:29.24											173					
OZOL	i	d	2	06:22:32.41											171					

03/11/2016	07:40:02.43		,		,												10	PERUGIA				M 3.4(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag					
VARA			3	07:40:02.43			41,88	2							212										
DOSS	e	c	2	07:40:02.71			41,99	3							208										
PANI	e	c	2	07:40:04.13			45,25	3							210										
GAGG			3	07:40:06.10			49,4	3							208										
RONC	e	c	2	07:40:06.21			49,2	3							211										
ZIAN	i	c	2	07:40:06.94			48,64	3							214										
OZOL			3	07:40:09.93			56,69	3							208										
CARE	i	c	2	07:40:12.29			58,26	3							206										

03/11/2016	08:25:19,44	45,5671	11,3798		10,8	1,1		0	0	1,6	90	0	1,6	C	0,15	0	ARZIGNANO (VI)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS	e	c	2	08:25:26.35	37,8	337	31,6	2	106							0,19		0,19	1	
VARA	e		2	08:25:27.91	47,4	307	33,93	2	103							0,16		-0,28	1,3	
GAGG	e		2	08:25:31.06	66,1	330			99							0,18			1,3	

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

03/11/2016	10:15:09,40	,	,											10	ASCOLI PICENO				M 3.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	d	2	10:15:09.40			50,17	3							218							
DOSS			3	10:15:09.63			49,98	3							210							
PANI			2	10:15:10.43																		
RONC			3	10:15:12.71			57,45	3							216							
GAGG	e	d	3	10:15:12.80			58,03	3							211							
ZIAN			3	10:15:12.96											218							
OZOL			3	10:15:16.50											212							
CARE			3	10:15:18.74			67,29	3							207							

03/11/2016	12:00:12,38	,	,											10	MACERATA				M 3.5(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	d	2	12:00:12.38			50,61	3							226							
DOSS			3	12:00:12.72			52,14	3							219							
PANI	i	d	2	12:00:13.37			53,09	3							224							
ZIAN	i	d	2	12:00:15.60			57,28	3							227							
GAGG	e	d	2	12:00:16.30			56,19	3							220							
RONC			3	12:00:16.48			59,91	3							226							
OZOL			2	12:00:18.83			65,3	2							222							
CARE	i	d	1	12:00:21.81			68,3	3							216							

03/11/2016	12:23:14,42	,	,											10	MACERATA				M 3.4(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag			
DOSS			3	12:23:14.42			52,62	3							213								
VARA	e	d	2	12:23:14.51			52,9	3							216								
GAGG			3	12:23:17.89			60,13	3							213								
RONC	i	d	3	12:23:18.53			60,58	3							214								
OZOL			3	12:23:21.16			66,28	3							213								
CARE			3	12:23:23.87			69,78	3							211								
03/11/2016	13:11:41,91	,	,												10	RIETI				M 3.7(I)			

03/11/2016	13:11:41,91	,	,												10	RIETI	M 3.7(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	13:11:41.91			82,71	2								238				
RONC			3	13:11:45.51			89,57	3								236				
GAGG			3	13:11:45.54			89,71	3								233				
ZIAN			3	13:11:46.19												238				
OZOL			3	13:11:49.17			96,37	3								233				
CARE			3	13:11:51.30			99,11	3								232				

03/11/2016	14:42:22.22	,	,											10	MACERATA			M 3.5(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	14:42:22.22			60,25	3							236					
DOSS			3	14:42:22.80											232					
GAGG			3	14:42:27.37			68,5	3							232					
RONC			3	14:42:27.40			68,43	3							232					
OZOL			3	14:42:31.18											232					
CARE			3	14:42:31.79											231					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

03/11/2016	15:53:16,51	46,1288	11,2330	1,65	1,2		0	0	0,7	90	0	0,7	C	0,17	2	BASELGA DI P. (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	1	15:53:18.54	11,7	138				98						0,01			1,4	
GAGG	e	c	2	15:53:20.01	21,8	257				94						-0,24			1,1	
DOSS	e	c	1	15:53:21.17	27,9	187				93						-0,11			1,3	
VARA	e		2	15:53:24.00	42,6	218				92						0,2			1,3	
CARE	e		2	15:53:25.26	52,8	309				92						-0,28			1,3	
RONC	e		2	15:53:25.35	50	251				92						0,28			1,1	

03/11/2016	16:07:48,40	46,1333	11,1848	2,83	0,9		0	0	0	90	0	0	C	0,05	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e		2	16:07:50.99	14,8	128				101						0,02			0,7	
GAGG	e		2	16:07:51.53	18,3	252				99						-0,04			0,9	
DOSS	e	c	2	16:07:53.19	28,2	179				96						-0,04			1	

03/11/2016	16:14:21,05	46,1388	11,1776		0,77	1,4		0	0	0,6	90	0	0,6	C	0,15	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
PANI	i	c	1	16:14:23.63	15,6	129				93						-0,09			1,4		
GAGG	i	c	2	16:14:24.16	18	250				92						0,03			1,4		
DOSS	i	c	1	16:14:25.87	28,8	178				92						-0,1			1,4		
ZIAN	e		2	16:14:26.65	33,4	63				91						-0,12			1,1		
VARA	e		2	16:14:28.08	41	212				91						0,01			1,3		
RONC	e		2	16:14:29.16	46,4	248				91						0,18			1,3		
CARE	e	c	2	16:14:29.30	48,8	311				91						-0,09			1,5		

03/11/2016	17:27:27,11	,	,											10	MACERATA				M 3.2(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			3	17:27:27.11			63,82	2							211							
DOSS			3	17:27:27.27			64,07	3							207							
PANI			3	17:27:28.24			65,58	3							208							
ZIAN			3	17:27:30.24			69,75	3							212							
RONC			3	17:27:32.38			72,6	3							207							
OZOL			3	17:27:33.61											205							
CARE			3	17:27:37.06											205							

03/11/2016	17:46:04,50	,	,											10	ASCOLI PICENO			M 2.8(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			3	17:46:04.50			44,62	3							172					
VARA	e	c	1	17:46:04.58			43,84	1							176					
PANI			2	17:46:06.18			46,4	3							174					
ZIAN	i	c	2	17:46:07.65			50,16	3							177					
GAGG			3	17:46:08.07											171					
RONC			3	17:46:08.12			51,02	3							174					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

03/11/2016	18:40:30,90	,	,											10	PERUGIA	M 2.9(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	2	18:40:30.90			70,39	3							197					
DOSS			3	18:40:31.43			71,31	3							192					
PANI			3	18:40:32.72			73,55	3							195					
GAGG			3	18:40:34.13			78,17	3							192					
RONC			3	18:40:34.29			78,82	3							196					
ZIAN			3	18:40:34.66			76,58	3							198					
OZOL			3	18:40:38.22			86,15	3							193					

03/11/2016	19:17:31,86	,	,											10	MACERATA				M 3.2(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	i	c	1	19:17:31.86			69,45	3							205							
DOSS			3	19:17:32.04			69,05	3							200							
PANI	i	c	2	19:17:33.46			71,48	3							203							
ZIAN			3	19:17:35.38			74,91	3							206							
GAGG			3	19:17:35.67			76,11	3							200							
RONC			3	19:17:37.05			75,64	3							203							
OZOL			3	19:17:38.74			82,17	3							200							
CARE			3	19:17:41.95			86,61	3							198							

03/11/2016	19:35:20,67		,		,												10	RIETI				M 2.9(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag					
VARA			2	19:35:20.67			61,05	2							198										
DOSS			3	19:35:20.72			61,29	3							193										
PANI	i	c	2	19:35:22.62			64,81	3							195										
GAGG			3	19:35:24.13			67,37	3							192										
ZIAN			2	19:35:24.32			68,58	3							199										
RONC			3	19:35:24.63											196										
OZOL	e	c	2	19:35:28.02			75,22	3							194										
CARE			3	19:35:30.28			77,78	3							188										

03/11/2016	20:33:35,22	,	,											10	PERUGIA				M 3.7(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			3	20:33:35.22			76,89	3							235							
VARA			3	20:33:35.61			75,99	2							237							
PANI	e	c	2	20:33:37.44			78,6	3							236							
GAGG	e	c	2	20:33:38.91			82,68	3							234							
RONC			3	20:33:39.03											236							
ZIAN	i	c	2	20:33:39.08			81,71	2							237							
OZOL	e	c	2	20:33:42.67			88,58	3							237							
CARE	e	c	2	20:33:44.95			91,05	3							233							

03/11/2016	21:11:19,70	,	,											10	PERUGIA	M 3.4(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			3	21:11:19.70			59,07	3							227					
VARA			3	21:11:19.89			59,95	3							231					
PANI			3	21:11:21.80			63,26	2							231					
GAGG			2	21:11:23.27			67,94	3							226					
ZIAN			3	21:11:23.97			66,22	3							232					
OZOL			3	21:11:27.57			75,38	3							229					
CARE			3	21:11:29.32			77,13	3							226					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

03/11/2016	23:25:29,64	,	,											10	PERUGIA	M 3.4(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		3		23:25:29.64			69,85	3							215					
DOSS		3		23:25:30.01											215					
PANI		3		23:25:31.60			72,1	3							212					
GAGG		3		23:25:33.32											216					
ZIAN		3		23:25:33.35			75,32	3							220					
OZOL		3		23:25:36.81			83,04	3							215					
CARE		3		23:25:39.35											212					

04/11/2016	01:33:55,50	,	,											10	MACERATA				DOUBLE EV. M 3.0(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	d	2	01:33:55.50			95,36	3														
DOSS	e	d	2	01:33:55.75																		
PANI	e	d	3	01:33:56.52			97,14	3														
ZIAN	e	d	2	01:33:58.62			100,5	3														
GAGG			3	01:33:59.12																		
RONC			3	01:33:59.92			103,4	3														
OZOL	e	d	2	01:34:02.29			49,47	3														
CARE	i	d	2	01:34:04.98			51,8	3														

04/11/2016	02:09:40,94	,	,											10	RIETI				M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			3	02:09:40.94			81,47	3							191							
VARA	e	c	2	02:09:41.01			81,46	2							196							
PANI			3	02:09:42.57			85,09	3							194							
RONC			3	02:09:43.92			88,14	3							194							
ZIAN			2	02:09:44.11			88,98	3							197							
GAGG			3	02:09:44.67			89	2							193							
OZOL			3	02:09:47.85			95,51	3							194							
CARE			3	02:09:50.24			96,79	3							190							

04/11/2016	06:14:07,17	,	,												10	PERUGIA	M 3.0(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	c	1	06:14:07.17			47,46	2							190					
DOSS			3	06:14:07.48			46,94	3							184					
PANI	i	c	2	06:14:09.06			49,89	3							186					
GAGG			3	06:14:10.88			54,42	3							183					
RONC			3	06:14:11.45			53,65	3							187					
OZOL			3	06:14:14.33			60,26	3							183					
CARE			3	06:14:16.67			63,95	3							182					

04/11/2016	07:04:41,74	,	,											0	OZOL					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
OZOL	i	d	1	07:04:41.74			42,96	2							24					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

04/11/2016	10:49:27,95	,	,											10	MACERATA				M 3.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	i	d	1	10:49:27.95			66,61	3							207							
DOSS	i	d	2	10:49:28.46											210							
GAGG	e	d	3	10:49:31.38			74,78	3							209							
RONC			2	10:49:31.99			76,09	3							204							
OZOL	i	d	1	10:49:34.84			83,2	3							207							
CARE	i	d	2	10:49:37.43											210							

04/11/2016	13:16:52,20	45,8289	11,0211	15,22	2,6		0	0	0,4	90	0	0,4	B	0,22	0	ROVERETO (TN)				M 2.8(O)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
VARA	i	c	1	13:16:55.64	9,7	268	57,99	2	148							0,36		0,3	2,2		
DOSS	i	c	1	13:16:56.00	14,2	66	58,47	2	137							0,24		-0,06	2,8		
GAGG	i	d	1	13:16:57.90	28,7	350	61,93	2	118							0,15		-0,15	3		
RONC	i	d	1	13:16:58.76	35,2	299	63,53	2	113							0		-0,34	3		
PANI	e		2	13:16:58.76	34,6	45	63,51	2	114							0,09		-0,2	2,8		
OZOL	e		2	13:17:03.51	63,9	2			103							0,09			2,8		
ZIAN	e	d	2	13:17:03.61	65	40			103							-0,01			2,6		
CARE	i	d	2	13:17:04.64	70,8	339			102							0,07			1,5		

04/11/2016	13:46:24,59	45,8248	11,0148	14,44	1,9		0	0	0,5	90	0	0,5	B	0,24	0	ROVERETO (TN)				M 2.3(O)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
VARA	i	c	1	13:46:27.88	9,2	271	30,27	2	148							0,37		0,47	1,5		
DOSS	i	c	1	13:46:28.26	14,8	66	30,71	2	134							0,13		-0,18	2		
GAGG	i	d	1	13:46:30.14	29,1	351	34,19	2	116							0		-0,28	2,2		
RONC	e	d	2	13:46:31.01	35	300	36,29	2	112							-0,05		0,18	2,2		
OZOL	e	c	2	13:46:35.79	64,4	3			103							-0,07			1,9		
ZIAN	e		2	13:46:35.94	65,7	40			102							-0,15			1,8		
CARE	i	d	1	13:46:36.93	71	340			101							-0,05			1,9		

04/11/2016	23:46:16,33	,	,											10	PERUGIA	M 3.4(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			3	23:46:16.33			57,63	3							221					
VARA	i	c	1	23:46:16.55			57,42	3							227					
PANI			2	23:46:18.14			60,07	3							226					
GAGG	e	c	2	23:46:19.59			63,49	3							223					
ZIAN	e	c	2	23:46:19.96			62,03	3							228					
OZOL	e	c	2	23:46:23.59											221					
CARE	i	c	2	23:46:25.67			73,29	3							224					

05/11/2016	00:43:00,30	,	,											10	ASCOLI PICENO	M 3.1(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			3	00:43:00.30											194					
VARA	e	c	1	00:43:00.67			40,11	3							198					
PANI	i	c	2	00:43:01.97											196					
ZIAN	i	c	2	00:43:03.88			47,08	3							197					
GAGG			3	00:43:04.42											195					
OZOL	e	c	2	00:43:07.50			54,44	3							193					
CARE			3	00:43:10.28											192					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

05/11/2016	02:10:20,15	,	,											10	MACERATA				M 3.0(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	c	2	02:10:20.15			58,86	3							200							
DOSS			3	02:10:20.56			60,66	3							193							
PANI	i	c	2	02:10:21.89			61,89	3							198							
ZIAN			3	02:10:23.42			63,88	3							201							
GAGG	i	c	2	02:10:24.52			65,19	3							194							
OZOL	i	c	2	02:10:27.17			74,81	3							194							
CARE			3	02:10:30.80											192							

05/11/2016	03:21:51,72	,	,											10	PERUGIA				M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	d	1	03:21:51.72			92,8	2														
DOSS			3	03:21:51.91			92,85	3														
PANI			2	03:21:53.32			94,71	3														
ZIAN	e	d	2	03:21:55.07			99,48	3														
GAGG			3	03:21:55.29																		
OZOL			3	03:21:58.68			105,5	3							189							
CARE			3	03:22:01.55			48,23	3														

05/11/2016	08:18:37,38	,	,											10	RIETI	M 3.6(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	08:18:37.38			77,4	3							230					
DOSS			3	08:18:37.68			77,44	3							231					
OZOL			3	08:18:44.66			90,73	3							226					
CARE			3	08:18:46.80			94,54	3							229					

05/11/2016	08:26:26,53		,	,											10	RIETI			M 3.1(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
DOSS			3	08:26:26.53			67,1	3							195						
VARA			2	08:26:26.87			67,96	3							198						
GAGG			3	08:26:30.28			74,15	3							195						
OZOL	i	d	2	08:26:33.96			80,84	3							193						
CARE			3	08:26:36.43			84,3	3							192						

05/11/2016	11:06:18,32		,												10	MACERATA			DOUBLE EV. M 3.4(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
DOSS	e	d	2	11:06:18.32																	
VARA	e	d	2	11:06:19.11																	
PANI	i	d	2	11:06:20.11																	
ZIAN	e	d	2	11:06:21.83																	
GAGG	e	d	2	11:06:23.14																	
CARE	i	d	2	11:06:28.44																	

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

05/11/2016	11:16:20,08	,	,											10	MACERATA				M 3.2(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			3	11:16:20.08											207							
VARA	e	c	2	11:16:20.68			58,92	3							209							
PANI			3	11:16:21.82											208							
ZIAN	i	c	2	11:16:23.85											211							
GAGG	e	c	3	11:16:23.98			69,53	3							206							
OZOL	i	c	2	11:16:27.23											205							
CARE	e	c	2	11:16:30.17			78,44	3							205							

05/11/2016	14:10:49,76	,	,												10	PERUGIA	M 3.0(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	14:10:49.76			89,86	3							180					
DOSS			3	14:10:49.78			88,68	3							180					
ZIAN			3	14:10:53.02											181					
GAGG			3	14:10:53.10											178					
CARE			3	14:10:58.27			105,8	3							181					

05/11/2016	14:46:13,26	,	,											10	MACERATA				M 3.4(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	d	2	14:46:13.26			51,04	3							226							
DOSS			3	14:46:13.38											221							
PANI			3	14:46:14.93			53,83	3							224							
ZIAN	i	d	2	14:46:16.43			56,66	3							226							
GAGG			3	14:46:17.25			57,82	3							223							
OZOL			3	14:46:20.17											220							
CARE			3	14:46:22.68			66,9	3							222							

05/11/2016	17:53:47,56	,	,												10	RIETI			M 3.4(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
VARA	i	d	1	17:53:47.56			90,51	3							224						
DOSS			3	17:53:47.73											220						
PANI			3	17:53:49.00			91,83	3							222						
ZIAN	e	d	2	17:53:50.77											226						
GAGG	e	d	3	17:53:51.01			99,35	3							222						
OZOL	e	d	2	17:53:54.37			103,4	3							221						
CARE	e	d	2	17:53:56.65											217						

05/11/2016	19:12:52,66	,	,											10	MACERATA			M 3.5(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			3	19:12:52.66																
VARA			2	19:12:52.90			90,97	3												
PANI			3	19:12:54.04			94,3	3												
ZIAN	i	c	2	19:12:55.56			97,62	3												
GAGG			3	19:12:56.38			97,68	3												
OZOL	e	c	1	19:12:59.27			105,2	3												
CARE	e	c	2	19:13:01.83			46,69	3												



# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

05/11/2016	21:30:07,39	,	,											10	RIETI	M 3.4(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			3	21:30:07.39			47,97	3							223					
VARA	e	c	2	21:30:07.45			48,22	3							225					
PANI			2	21:30:08.88			52,93	3							225					
ZIAN	e	c	1	21:30:10.69			55,57	3							226					
GAGG			3	21:30:10.78			55,06	3							222					
OZOL	i	c	2	21:30:14.31			63,58	3							222					
CARE	i	c	2	21:30:16.88			64,13	3							222					

05/11/2016	22:32:59,37	,	,											10	MACERATA			M 3.2(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	2	22:32:59.37			97,31	3							207					
DOSS	e	d	3	22:32:59.81			99,99	3							205					
PANI			3	22:33:00.57											206					
ZIAN	e	d	2	22:33:02.12			41,74	3							208					
GAGG	e	d	2	22:33:03.07			43,08	3							204					
OZOL	e	d	2	22:33:05.78			51,46	3							204					
CARE	e	d	3	22:33:08.71			55,1	3							203					

06/11/2016	03:20:22,59	,	,											10	MACERATA	M 3.8(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			3	03:20:22.59			59,63	3							277					
VARA	e	c	2	03:20:22.82			59,72	2							280					
PANI			2	03:20:24.35			62,74	3							279					
ZIAN			2	03:20:26.38			67,69	3							280					
GAGG			3	03:20:26.81			67,81	3							276					
OZOL	e	c	2	03:20:29.76			77,64	3							276					
CARE	i	c	2	03:20:32.26			76,9	3							276					

06/11/2016	04:41:47,08	,	,											10	PERUGIA	M 3.1(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	04:41:47.08			87,31	3							191					
DOSS			3	04:41:47.22											187					
PANI			2	04:41:48.76			90,07	3							190					
GAGG			3	04:41:50.46			93,58	3							187					
ZIAN	i	d	2	04:41:50.70			92,38	3							192					
OZOL	e	d	2	04:41:54.18			101,3	3												
CARE			3	04:41:56.35											189					
OZOL			0	04:45:01.66											0					

06/11/2016	04:45:21,98	,	,											10	ASCOLI PICENO	M 3.4(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			3	04:45:21.98			64,06	3							227					
VARA	e	c	2	04:45:22.23			62,82	2							233					
PANI			2	04:45:23.08			64,61	3							231					
ZIAN			2	04:45:25.10			69,23	3							234					
GAGG			3	04:45:25.65			70,97	3							228					
OZOL	i	c	2	04:45:28.64			76,72	3							227					
CARE	e	c	3	04:45:31.48			80,04	3							226					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

06/11/2016	14:27:41,13	45,7905	10,9798	11,86	1,1		0	0	0,6	90	0	0,6	B	0,11	0	BRENTONICO (TN)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
VARA	e	c	1	14:27:43.63	7,6	301	45,55	2	147							0,1		0,14	1,1		
DOSS	e		2	14:27:45.14	19	59	47,85	2	122							0,18		-0,1	0		
GAGG	e		2	14:27:47.03	32,6	357			110							-0,03			0		
CARE	e	c	2	14:27:53.89	73,8	343			99							-0,01			0		

06/11/2016	18:16:15,34	,	,											10	PERUGIA	M 3.6(l)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	18:16:15.34			55,86	2							240					
DOSS			2	18:16:15.37			54,77	3							236					
PANI	i	d	1	18:16:16.65			57,68	3							239					
ZIAN	i	d	2	18:16:18.68			63,51	3							241					
GAGG	e	d	2	18:16:18.85			60,73	3							236					
OZOL			2	18:16:22.00			68,76	3							236					
CARE	i	d	2	18:16:25.25			72,32	3							236					

07/11/2016	03:13:58,67	,	,											10	MACERATA				M 3.1(l)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			3	03:13:58.67			97,5	3							195							
VARA	i	c	2	03:13:59.35			97,89	2							197							
PANI	i	c	2	03:14:00.16			40,75	3							197							
ZIAN	e	c	2	03:14:01.84			41,97	3							197							
GAGG	e	c	2	03:14:02.82											194							
OZOL	e	c	2	03:14:05.47			51,67	3							193							
CARE			3	03:14:08.07			54,5	3							198							

07/11/2016	07:44:34,60	46,7321	10,1273	6,82	1,4		0	0	1,1	90	0	1,1	C	0,16	0	VAL MUSTAIR [CH]				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e		2	07:44:44.08	55,5	128				97						-0,08			1,9	

07/11/2016	11:04:26,34	46,1416	11,2113	5,65	1,1		0	0	0,3	90	0	0,3	C	0,03	2	LONA-LASES (TN)	EXPL?			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	1	11:04:28.90	13,9	137				112						0			1,2	
GAGG	e		2	11:04:29.94	20,6	252				105						-0,05			1	
DOSS	e		2	11:04:31.45	29,1	183				101						0,04			1,1	
ZIAN	e	c	2	11:04:31.70	31	61				100						-0,03			0,9	

07/11/2016	12:35:26,90	,	,											10	PERUGIA				M 3.1(l)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			3	12:35:26.90											194							
VARA			2	12:35:27.19			66,02	3														
PANI	e	d	2	12:35:28.58			68,24	3							192							
GAGG			3	12:35:30.72			73,13	3							192							
RONC			3	12:35:30.81			73,72	3							192							
OZOL			3	12:35:34.27											191							
CARE			3	12:35:36.67											195							

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

07/11/2016	16:59:24,99	,	,											10	MACERATA				M 3.4(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			3	16:59:24.99			64,01	3														
VARA			2	16:59:25.22			63,11	2														
PANI	i	d	2	16:59:26.43			65,42	3														
ZIAN	i	d	2	16:59:28.53			67,8	3														
GAGG			3	16:59:29.17			68,25	3														
RONC			3	16:59:29.99			69,87	3														
OZOL	e	d	2	16:59:32.16			77,54	3														
CARE	e	d	3	16:59:34.10			80,16	3														

07/11/2016	18:57:09,86	,	,											10	MACERATA				M 3.8(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS	e	d	2	18:57:09.86											266							
VARA	e	d	1	18:57:10.60			48,89	2							272							
PANI	e	d	2	18:57:11.61			51,56	3							270							
ZIAN	e	d	1	18:57:13.75			55,82	3							274							
GAGG	e	d	2	18:57:13.83			57,07	3							266							
RONC	e	d	2	18:57:13.89			57,87	3							271							
OZOL	e	d	1	18:57:17.39			63,29	3							268							
CARE	i	d	2	18:57:20.09			67,92	3							266							

07/11/2016	20:46:47,86	46,6381	10,4870	5,64	1,2		0	0	0,6	90	0	0,6	B	0,22	0	TUBRE (BZ)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
CARE	e	d	1	20:46:52.96	28,7	146	56,54	2	101							0,09		-0,23	0		
OZOL	e		2	20:46:56.74	50,6	121	63,02	2	96							0,17		-0,33	1,2		
RONC	e		2	20:47:00.58	73,8	172			94							0,06			1,3		

08/11/2016	04:27:00,02	,	,											10						
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
OZOL	i	c	1	04:27:00.02			7,65	1							92					
CARE	e	d	2	04:27:00.81			9,92	2							91					
ZIAN	i	d	1	04:27:03.11			13,11	1							92					
GAGG			3	04:27:06.02			18,04	3							91					
PANI			2	04:27:06.82			18,67	2							91					
DOSS			3	04:27:09.61			23,79	2							91					

08/11/2016	05:21:12,57	,	,											10	MACERATA				M 3.0(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	d	2	05:21:12.57			51,66	3							191							
DOSS			2	05:21:12.69			51,94	3							188							
PANI			3	05:21:14.03			53,62	3							188							
ZIAN	e	d	2	05:21:15.73			57,8	3							191							
GAGG			3	05:21:16.50											187							
RONC	e	d	2	05:21:17.26			59,98	3							189							
OZOL			3	05:21:19.26			64,75	3							187							
CARE	i	d	3	05:21:22.01			68,61	3							189							

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

08/11/2016	06:01:33,78	,	,											10	ASCOLI PICENO			M 3.4(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	06:01:33.78			74,31	2												
DOSS			3	06:01:34.33																
PANI			2	06:01:35.23			76,46	2												
GAGG			3	06:01:37.78			81,78	3												
RONC			3	06:01:37.81			81,66	3												
OZOL			3	06:01:40.69			89,02	3							220					
CARE			3	06:01:42.88			91,18	3												

08/11/2016	08:17:21,27	,	,											10	PERUGIA			M 3.2(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	08:17:21.27			60,89	3							208					
DOSS			3	08:17:21.28			60,64	3							204					
PANI	i	c	3	08:17:23.45			62,54	3							205					
RONC			3	08:17:25.33			68,38	3							206					
GAGG			3	08:17:25.63			67,79	3							204					
OZOL			3	08:17:29.58			75,35	3							202					
CARE			3	08:17:31.26			78,15	3							199					

08/11/2016	10:57:47,46	45,7736	10,9606	14,35	0,8		0	0	0,7	90	0	0,7	B	0,13	0	BRENTONICO (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	c	1	10:57:50.37	7,7	319	52,3	2	152							0,13		-0,11	0,4	
DOSS	e		2	10:57:51.92	21,3	56	55,34	2	124							0,07		0,07	0,7	

08/11/2016	20:01:49,20	,	,											10	PERUGIA			M 3.3(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	20:01:49.20			87,63	3							216					
DOSS			3	20:01:49.29			89,72	3							210					
GAGG			3	20:01:52.45											213					
RONC			3	20:01:53.28			93,78	3							213					
ZIAN			3	20:01:53.43			94,18	3							215					
OZOL			3	20:01:57.23			101,9	3							212					
CARE			3	20:01:58.80			104,4	3							209					

09/11/2016	01:08:25,89	,	,											10	L'AQUILA			M 3.1(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	01:08:25.89			69,14	3							212					
DOSS	i	c	2	01:08:26.20			69,08	3							204					
PANI	e	c	2	01:08:27.67			71,82	3							210					
GAGG			3	01:08:29.09			76,43	3							205					
RONC			3	01:08:29.67			77,32	3							210					
ZIAN	i	c	2	01:08:29.74			75,16	3							211					
OZOL	e	c	2	01:08:33.45			84,66	3							205					
CARE	i	c	3	01:08:35.40			86,13	3							206					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

09/11/2016	02:17:03,13	45,7118	11,0460	5,18	1,1		0	0	0,4	90	0	0,4	B	0,14	0	ALA (TN)			M 1.1(O)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	d	2	02:17:06.33	17,2	318	8,83	2	107							0,13		0,23	0	
DOSS	e		2	02:17:07.09	21,7	31	9,96	2	103							0,14		0,03	0,9	
GAGG	e		2	02:17:10.36	41,9	351	15,64	2	97							0,02		-0,32	1,4	
RONC	e		2	02:17:10.90	44,4	312			97							0,12			1,2	

09/11/2016	03:16:01,51	,	,											10	MACERATA				M 3.5(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	c	2	03:16:01.51			39,21	3							234							
DOSS			3	03:16:01.77											225							
PANI	e	c	2	03:16:02.05			41	2							230							
ZIAN	e	c	2	03:16:04.79			44,2	3							238							
RONC			2	03:16:05.21			49,91	3							232							
GAGG			3	03:16:05.25			46,37	3							225							
OZOL	e	c	2	03:16:08.32			53,99	3							225							
CARE	e	c	3	03:16:10.54			57,71	3							222							

09/11/2016	03:51:03.57	,	,											10	MACERATA			DOUBLE EV. M 3.2(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	03:51:03.57			40,73	3												
DOSS			3	03:51:04.18																
PANI	e	c	2	03:51:04.75			43,68	3												
ZIAN	i	c	2	03:51:06.56			47,28	3												
GAGG			3	03:51:07.34			48,79	3												
RONC			3	03:51:07.85			49,6	3												
OZOL	e	c	2	03:51:10.24			52,63	3												
CARE	i	c	3	03:51:12.70			54,14	3												

09/11/2016	06:14:07,46	,	,											10	RIETI			M 3.7(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	06:14:07.46			48,39	2							235					
DOSS			2	06:14:07.53			48	3							233					
PANI			2	06:14:08.82			50,62	3							234					
RONC	e	c	2	06:14:10.92			54,83	2							234					
GAGG			3	06:14:11.06			53,29	3							231					
ZIAN	e	c	2	06:14:11.30			55,39	2							235					
OZOL			2	06:14:14.65			61,76	2							232					
CARE	i	c	2	06:14:16.95			63,78	2							231					

09/11/2016	06:30:51,40	,	,											10	RIETI				M 3.5(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	i	c	2	06:30:51.40			92,52	2							232							
DOSS	e	c	2	06:30:51.61			92,37	3							224							
PANI	e	c	2	06:30:53.13			95,34	3							229							
ZIAN	i	c	1	06:30:55.29			99,16	3							233							
GAGG			3	06:30:55.50			98,72	3							226							
RONC	e	c	2	06:30:55.56			99,18	3							229							
OZOL			2	06:30:59.24			107,5	3							226							

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

09/11/2016	09:40:24,35	45,5098	10,2450	9,75	1,6		0	0	2,4	90	0	2,4	C	0,13	0	BRESCIA				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
RONC	e		2	09:40:34.79	60	29			99							0,05			1,4	
DOSS	e		2	09:40:38.78	84,2	61			97							-0,06			1,7	

09/11/2016	15:36:08,48	,	,											10	FRANCE	M 3.5(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	15:36:08.48											208					
RONC			2	15:36:08.88			53,15	3							207					
GAGG			3	15:36:11.86			58,9	3							203					
DOSS			2	15:36:12.32			57,77	3							202					
CARE			3	15:36:13.42											202					
PANI			3	15:36:14.82			61,88	3							205					
OZOL			3	15:36:16.45			67,11	3							204					
ZIAN			3	15:36:18.90			69,74	3							207					

10/11/2016	01:15:28,03	,	,											10	MACERATA				M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			3	01:15:28.03											200							
VARA	e	c	1	01:15:28.34			66,84	3							207							
PANI			3	01:15:29.37											206							
ZIAN	e	c	2	01:15:31.05			73,6	3							208							
GAGG	i	c	2	01:15:31.67											201							
RONC	i	c	2	01:15:32.39			75,51	3							205							
OZOL	i	c	2	01:15:35.04			81,1	3							202							
CARE			3	01:15:37.55			83,96	3							200							

10/11/2016	02:46:43,64	,	,											10	FRANCE				M 3.2(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
RONC	e	d	2	02:46:43.64			87,36	3														
VARA	e	d	2	02:46:45.30																		
DOSS	e	d	2	02:46:47.17			92,79	3														
GAGG	e	d	2	02:46:47.75																		
CARE			3	02:46:48.69																		
PANI			2	02:46:49.73			97,03	3														
OZOL	e	d	3	02:46:51.01			102,1	3														
ZIAN			3	02:46:53.71			105	3														

10/11/2016	02:49:10,56	,	,											10	FRANCE				M 3.7(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
RONC	e	c	1	02:49:10.56			55,12	3							245							
VARA			2	02:49:12.18											245							
DOSS	e	c	2	02:49:14.16			60,1	3							243							
GAGG	e	c	2	02:49:14.77			61,93	3							243							
CARE			3	02:49:15.08			63,45	3							244							
PANI	e	c	2	02:49:16.70			65,06	3							242							
OZOL			2	02:49:18.31			69,48	3							241							
ZIAN	e	c	2	02:49:20.37			72,39	2							242							

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

10/11/2016	03:50:59,36	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	i	d	0	03:50:59.36			60,26	1							30					

10/11/2016	04:24:45,64	46,4575	11,6291	11,34	1,7			0	0	0,3	90	0	0,3	B	0,17	0	POZZA DI FASSA (TN)		M 1.7(O)	
<b>st_name</b>	<b>p_rem</b>	<b>m</b>	<b>w_p</b>	<b>time_s</b>	<b>dist</b>	<b>azm</b>	<b>s_sec</b>	<b>w_s</b>	<b>ain</b>	<b>mx_amp</b>	<b>per</b>	<b>p_calc</b>	<b>p_std</b>	<b>cf</b>	<b>f_p_time</b>	<b>p_res</b>	<b>s_std</b>	<b>s_res</b>	<b>xmag</b>	<b>fmag</b>
ZIAN	i	d	2	04:24:49.91	20,8	194	52,87	2	119							0,22		0,03	1,5	
OZOL	i	c	1	04:24:53.66	44,8	262	59,62	2	104							0,12		-0,08	1,5	
PANI	e		2	04:24:54.91	50,6	207	60,9	2	103							0,41		-0,51	1,7	
GAGG	i	c	2	04:24:57.21	66,3	231			100							0,06			1,6	
CARE	e	c	2	04:24:57.99	71,7	267			99							-0,06			0	
DOSS	e		2	04:24:58.37	72,6	208			99							0,16			2,2	
VARA	e	c	2	04:25:01.30	90,2	219			97							0,12			0	
RONC	e		2	04:25:01.79	94	236			97							-0,04			1,6	

10/11/2016	05:47:02,67	,	,											10	GENOVA				M 2.9(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	i	c	1	05:47:02.67			25,24	2							173							
RONC	e	c	2	05:47:02.91			26,5	3							173							
DOSS	i	c	1	05:47:05.10			29,71	3							169							
GAGG	e	c	2	05:47:05.86			30,61	3							169							
PANI	i	c	1	05:47:08.00			33,67	3							171							
CARE			3	05:47:09.43			36,15	2							168							
OZOL			3	05:47:11.03			39,06	3							169							
ZIAN	e	c	1	05:47:12.07			41,23	2							172							

10/11/2016	11:02:01,85	46,1401	11,1840	4,46	1,4			0	0	0,2	90	0	0,2	B	0,05	2	ALBIANO (TN)		EXPL? M 1.8(O)	
<b>st_name</b>	<b>p_rem</b>	<b>m</b>	<b>w_p</b>	<b>time_s</b>	<b>dist</b>	<b>azm</b>	<b>s_sec</b>	<b>w_s</b>	<b>ain</b>	<b>mx_amp</b>	<b>per</b>	<b>p_calc</b>	<b>p_std</b>	<b>cf</b>	<b>f_p_time</b>	<b>p_res</b>	<b>s_std</b>	<b>s_res</b>	<b>xmag</b>	<b>fmag</b>
PANI	i	c	2	11:02:04.57	15,3	130			106							-0,01			1,6	
GAGG	i	c	2	11:02:05.08	18,5	250			104							-0,03			1,3	
DOSS	i	c	1	11:02:06.82	28,9	179			99							-0,03			1,3	
OZOL	e		2	11:02:07.24	31	341			98							0,04			1,4	
ZIAN	e		2	11:02:07.52	32,9	63			98							-0,01			1,2	
VARA	e		2	11:02:09.07	41,4	213			96							0,1			0	
CARE	e	c	2	11:02:10.24	49,1	310			95							-0,03			1,8	

10/11/2016	11:09:40,15	46,1346	11,1851	1,07	1,2			0	0	0,3	90	0	0,3	C	0,06	2	ALBIANO (TN)		EXPL?	
<b>st_name</b>	<b>p_rem</b>	<b>m</b>	<b>w_p</b>	<b>time_s</b>	<b>dist</b>	<b>azm</b>	<b>s_sec</b>	<b>w_s</b>	<b>ain</b>	<b>mx_amp</b>	<b>per</b>	<b>p_calc</b>	<b>p_std</b>	<b>cf</b>	<b>f_p_time</b>	<b>p_res</b>	<b>s_std</b>	<b>s_res</b>	<b>xmag</b>	<b>fmag</b>
PANI	i	c	1	11:09:42.74	14,9	129			94							0,03			1,1	
GAGG	i	c	1	11:09:43.31	18,4	252			93							0			1,2	
DOSS	i	c	1	11:09:44.93	28,3	179			92							-0,08			1,2	
OZOL	e		2	11:09:45.50	31,6	341			92							-0,06			1,1	
ZIAN	e		2	11:09:45.84	33,2	62			92							0,01			1,1	
VARA	e		2	11:09:47.28	41	213			91							0,11			1,6	

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA		NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

10/11/2016	11:17:05,54	46,1296	11,1828	4,41	0,8		0	0	0,8	90	0	0,8	C	0,1	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	1	11:17:08.15	14,7	127				107						-0,01			0,8	
GAGG	i	c	1	11:17:08.67	18,1	254				104						-0,05			0,8	
DOSS	e		2	11:17:10.38	27,7	179				99						0,04			0	
ZIAN	i	c	1	11:17:11.23	33,6	61				97						-0,1			0,8	

10/11/2016	11:19:14,77	46,1415	11,1806	4,95	1,1		0	0	0,1	90	0	0,1	B	0,02	2	ALBIANO (TN)				EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
PANI	i	c	1	11:19:17.57	15,6	130				108						0			0,9		
GAGG	e	c	2	11:19:18.02	18,3	249				105						0			0,9		
DOSS	i	c	1	11:19:19.79	29,1	179				100						-0,02			1,1		
ZIAN	i	c	2	11:19:20.49	33,1	63				98						0			1		

10/11/2016	13:06:14,89	,	,											0	RONC					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
RONC			2	13:06:14.89			16,01	2							35					

10/11/2016	13:51:53,51	,	,											10	MACERATA				M 3.6(I)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS	e	d	2	13:51:53.51			93,92	3							232					
VARA	i	d	1	13:51:53.54			92	3							233					
PANI	i	d	2	13:51:54.71			94,58	3							232					
ZIAN			3	13:51:56.76			96,96	3							233					
GAGG	e	d	2	13:51:57.02			98,21	3							231					
RONC	e	d	2	13:51:57.57			99,36	3							232					
OZOL	i	d	2	13:52:00.36			45,76	3							231					
CARE	i	d	2	13:52:03.11			50,33	3							231					

10/11/2016	15:46:37,89	46,1455	11,1826	7	1,1		0	0	0	90	0	0	C	0,02	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	1	15:46:40.85	15,8	132				114						0			1	
GAGG	e		2	15:46:41.28	18,6	248				111						-0,02			1	
DOSS	e		2	15:46:43.06	29,5	179				103						-0,02			1,2	

10/11/2016	15:58:26,35	,	,											10	MACERATA	M 3.4(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	15:58:26.35			63,93	3							216					
DOSS			3	15:58:26.71			65,08	3							212					
PANI			3	15:58:27.39			67,48	3							213					
GAGG			3	15:58:30.28											213					
RONC			3	15:58:31.36											214					
CARE			3	15:58:35.43											209					



# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

10/11/2016	16:04:11,12	,	,											10	RIETI				M 3.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	d	2	16:04:11.12			52,33	2							207							
DOSS	i	d	1	16:04:11.14			52,01	3							201							
PANI			3	16:04:12.41			54,99	2							204							
GAGG			3	16:04:14.25			58,16	2							202							
ZIAN			3	16:04:14.61			58,68	3							207							
RONC			3	16:04:14.68			59,83	3							204							
OZOL			3	16:04:18.20											202							
CARE			3	16:04:20.48			68,03	3							201							

10/11/2016	17:24:23,14	,	,											10	MACERATA				M 3.4(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	d	1	17:24:23.14			64	3							230							
DOSS			3	17:24:23.24			60,72	3							228							
PANI			3	17:24:24.18			65,12	3							227							
ZIAN	e	d	3	17:24:25.80			65,89	3							231							
GAGG	e	d	3	17:24:26.64											226							
RONC	e	d	3	17:24:27.28											228							
OZOL	i	d	2	17:24:30.11											225							
CARE	i	d	2	17:24:32.51											226							

10/11/2016	19:55:29,08	,	,											10	PERUGIA				M 3.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			3	19:55:29.08			69,9	3							210							
VARA			3	19:55:29.22			69,9	2							214							
PANI	i	c	2	19:55:31.43											212							
ZIAN			3	19:55:33.26			76,99	3							215							
GAGG	i	c	2	19:55:33.34			76,2	3							210							
RONC			3	19:55:33.48			76,99	3							212							
OZOL	e	c	2	19:55:37.15			84,67	2							210							
CARE	e	c	3	19:55:39.03			86,17	3							207							

11/11/2016	02:28:08,55	45,8390	10,9850	16,97	1		0	0	0,4	90	0	0,4	B	0,13	0	MORI (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e		2	02:28:11.96	7	258	14,33	2	157							0,27		0,19	0	
DOSS	e		2	02:28:12.62	16,5	74	15,61	2	136							0,03		-0,14	0,7	
GAGG	i	d	1	02:28:14.11	27,2	356	18,12	2	122							0,07		-0,2	1	
PANI	e		2	02:28:15.51	35,9	49	20,58	2	115							0,17		-0,06	1,2	
ZIAN	e		2	02:28:20.25	66,1	43			104							0,04			1,3	

11/11/2016	03:14:39,69	45,8275	10,9686	14,39	1,2		0	0	0,4	90	0	0,4	B	0,08	0	MORI (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS	e		3	03:14:43.91	18,1	71	46,6	2	129							0,27		-0,12	0	
GAGG	e		2	03:14:45.13	28,5	358				117						-0,02			1,2	

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

11/11/2016	05:39:40,78	,	,											10	CUNEO	M 3.0(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
RONC	i	c	1	05:39:40.78			76,07	3							188					
VARA			3	05:39:41.81			77,28	3							188					
DOSS	i	c	2	05:39:44.49											187					
GAGG			3	05:39:44.64											186					
CARE			3	05:39:46.19											187					
PANI	i	c	2	05:39:47.20			86,48	3							186					
OZOL	e	c	2	05:39:49.13			89,36	3							185					
ZIAN	e	c	2	05:39:50.53			91,04	3							188					

11/11/2016	15:07:00,03	45,6316	10,4408	8,18	1,3		0	0	1,3	90	0	1,3	C	0,14	0	GAVARDO (BS)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
RONC	e		2	15:07:07.20	41,3	20				101						-0,03			1,4		
VARA	e		2	15:07:07.22	41,5	59				101						-0,04			0		

11/11/2016	17:54:04,00	,	,											10	ASCOLI PICENO	M 3.1(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	17:54:04.00			42,98	2							198					
DOSS			3	17:54:04.12			42,43	3							193					
ZIAN			2	17:54:07.22											197					
GAGG			3	17:54:07.44											194					
RONC			3	17:54:08.20			50,92	3							196					
OZOL	i	c	2	17:54:11.17											195					
CARE			3	17:54:13.41											194					

12/11/2016	09:05:02,46	,	,											10	MACERATA				M 3.2(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			2	09:05:02.46			40,97	3							201							
DOSS			3	09:05:02.49			41,23	3							196							
PANI			3	09:05:03.79			43,44	3							200							
ZIAN			3	09:05:05.87											201							
GAGG			3	09:05:06.10			49,46	3							196							
RONC			2	09:05:06.68			49,61	3							200							
OZOL	i	c	2	09:05:09.61			53,96	3							198							
CARE			3	09:05:12.05			56,57	3							196							

12/11/2016	11:20:59,19	,	,											10	PERUGIA				M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			3	11:20:59.19			98,22	3							195							
VARA	e	c	2	11:20:59.21			97,65	2							200							
PANI			3	11:21:02.36			41,11	3							198							
GAGG	e	c	3	11:21:02.69			44,9	3							196							
RONC			3	11:21:02.99			43,67	3							198							
ZIAN			3	11:21:03.33			44,66	3							199							
OZOL			3	11:21:07.31			51,24	3							195							
CARE			3	11:21:08.68			53,01	3							193							

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

12/11/2016	12:35:04,16	,	,											10	MACERATA				M 3.9(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			3	12:35:04.16																		
VARA	e	c	2	12:35:04.42			44,58	3														
PANI	e	c	2	12:35:05.35			44,28	3														
ZIAN	i	c	2	12:35:07.75			48,38	3														
RONC			2	12:35:08.15			51,82	3														
GAGG			2	12:35:08.34			48,69	3														
OZOL	e	c	2	12:35:11.34			57,35	3														
CARE	i	c	2	12:35:13.80			59,58	3														

12/11/2016	13:00:11,57	,	,											10	MACERATA				M 3.7(I)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	13:00:11.57			50,03	3							255					
DOSS			3	13:00:11.77											250					
PANI	e	c	2	13:00:12.40			51,31	3							251					
ZIAN	e	c	2	13:00:14.82											257					
GAGG			3	13:00:15.54											250					
RONC	e	c	2	13:00:15.67			59,05	3							253					
OZOL	e	c	2	13:00:18.37			63,36	3							249					
CARE	i	c	3	13:00:20.82			68,1	3							250					

12/11/2016	14:44:30,04	,	,											10	RIETI				M 4.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	c	2	14:44:30.04			71,36	3							284							
DOSS	e	c	2	14:44:30.24											280							
PANI	e	c	2	14:44:32.00			72,35	3							282							
GAGG			3	14:44:33.28			79,05	3							279							
ZIAN			2	14:44:33.72			77,2	3							284							
RONC	e	c	1	14:44:33.72			79,87	3							282							
OZOL			3	14:44:37.52			85,86	3							278							
CARE	e	c	2	14:44:39.31			88,82	3							281							

12/11/2016	16:39:15,20	45,8443	11,6893	20,39	1		0	0	0,5	90	0	0,5	C	0,07	0	VALSTAGNA (VI)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
PANI	e		2	16:39:22.25	35,8	310	27,74	2	120							0		0	1,3		
DOSS	e		2	16:39:22.64	39,1	276			118							-0,09			1,1		
ZIAN	e		2	16:39:24.38	49	349	31,15	3	113							0,11		-0,2	1,1		

12/11/2016	19:19:22.27	,	,											10	MACERATA			M 3.2(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	19:19:22.27			59,58	2							204					
DOSS			3	19:19:22.68			58,22	3							202					
GAGG			3	19:19:25.82			66,46	3							200					
ZIAN			3	19:19:25.83											205					
RONC			3	19:19:27.70			68,21	3							200					
OZOL			3	19:19:29.55			73	3							199					
CARE			3	19:19:32.34											204					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

12/11/2016	22:33:18,49	,	,											10	PERUGIA	M 3.9(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			3	22:33:18.49			59,98	3							266					
VARA			2	22:33:18.84			58,79	3							267					
PANI	i	c	2	22:33:20.25			62,02	3							266					
ZIAN	e	c	2	22:33:22.16			65,88	3							266					
RONC	e	c	2	22:33:22.25			67,6	3							267					
GAGG	e	c	2	22:33:22.37			65,53	3							265					
OZOL	e	c	1	22:33:25.98			71,39	3							264					
CARE	i	c	2	22:33:28.39			74,73	3							264					

12/11/2016	22:52:04,25	,	,											10	MACERATA				M 3.2(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			3	22:52:04.25			43,54	3							202							
VARA	e	c	2	22:52:04.83			43,57	3							206							
PANI	e	c	2	22:52:05.91			44,81	3							204							
ZIAN	e	c	2	22:52:07.64			50,57	3							208							
GAGG			3	22:52:08.02											202							
RONC	e	c	2	22:52:08.98			53,47	3							204							
OZOL	e	c	2	22:52:11.55			57,28	3							201							
CARE	e	c	3	22:52:13.93											202							

12/11/2016	23:20:31,98	,	,											10	PERUGIA				M 3.2(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS	e	c	2	23:20:31.98																		
VARA	i	c	2	23:20:32.49			71,82	2														
PANI	e	c	2	23:20:33.72			74,03	3														
GAGG	e	c	2	23:20:35.72			78,39	3														
RONC	i	c	1	23:20:35.83			79,39	3														
ZIAN			3	23:20:36.25			77,03	3														
OZOL	e	c	2	23:20:39.62			86,64	3														
CARE	i	c	2	23:20:41.74			86,9	3														

12/11/2016	23:56:30,53	,	,											10	PERUGIA				M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS	e	d	2	23:56:30.53																		
VARA			2	23:56:30.69			71,16	3														
PANI	e	d	2	23:56:32.37			73,31	3														
GAGG	e	d	2	23:56:34.09			77,34	3														
RONC			2	23:56:34.20			77,54	3														
ZIAN	i	d	2	23:56:34.31			76,16	3														
OZOL	e	d	2	23:56:37.88			85,12	3														
CARE	i	d	2	23:56:40.38																		

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

13/11/2016	03:16:51,27	,	,											10	L'AQUILA	M 3.3(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	03:16:51.27			94,92	3							226					
DOSS			3	03:16:51.52			94,8	3							217					
PANI	e	c	2	03:16:53.28			96,88	3							222					
GAGG			3	03:16:54.45			103,4	3							217					
ZIAN	i	c	2	03:16:55.13			101	3							228					
RONC			3	03:16:55.76			102,4	3							223					
OZOL	e	c	2	03:16:58.57			108,3	3							218					
CARE	i	c	2	03:17:00.53			51,2	3							216					

13/11/2016	11:54:50,80	,	,											10	RIETI	M 3.3(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			3	11:54:50.80			92,66	3							213					
VARA			3	11:54:50.96			92,06	3							216					
PANI			3	11:54:52.61											216					
GAGG			3	11:54:54.36											213					
ZIAN			2	11:54:54.62											217					
RONC			3	11:54:55.15			99,62	3							216					
OZOL			2	11:54:58.37			107,4	3							215					
CARE			3	11:55:00.44			49,1	3							213					

13/11/2016	13:02:26,25	46,0485	10,5386	4,72	1,7		0	0	0,8	90	0	0,8	B	0,08	0	VALDAONE (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
RONC	e		2	13:02:28.20	10	139	29,51	2	115							0,07		-0,09	1,3	
GAGG	e		2	13:02:31.82	32,7	83	36,25	2	98							-0,08		-0,06	0	

13/11/2016	19:14:20,05	46,0351	10,7488	8,76	0,8		0	0	0,7	90	0	0,7	C	0,15	0	ZUCLO (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
RONC	i	c	1	19:14:22.62	11,5	238	24,55	2	127							0,09		0,1	0,7	
GAGG	e	c	2	19:14:23.33	17,1	72	25,97	2	117							-0,01		0,06	0,7	
VARA	e		2	19:14:24.75	25,9	154	28,55	2	109							0,01		0,17	1	
DOSS	e		2	19:14:26.89	38,2	117	31,86	2	103							0,13		-0,13	0	

13/11/2016	20:31:07,98	,	,											10	RIETI	M 2.8(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	20:31:07.98			49,13	2							175					
DOSS			3	20:31:08.76			50,31	3							169					
ZIAN			2	20:31:11.34			56,06	3							176					
GAGG			3	20:31:11.93											169					
RONC			3	20:31:12.41			57,09	3							172					
OZOL	e	c	2	20:31:15.05			63,01	3							170					
CARE	i	c	2	20:31:18.28											172					

13/11/2016	22:40:43,96	46,0653	11,8348	6,78	0,8		0	0	0,3	90	0	0,3	B	0,07	0	FELTRE (BL)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
ZIAN	e		2	22:40:49.62	31,5	318	53,76	2	102							0,16		0	0,9	

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

13/11/2016	23:02:45,11	,	,											10	MACERATA			M 3.2(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	2	23:02:45.11			82,57	2							212					
DOSS			3	23:02:45.25			83,4	3							208					
PANI			3	23:02:47.42			85,95	3							210					
ZIAN	e	d	2	23:02:48.39			90,52	3							213					
GAGG			3	23:02:49.25			91,07	3							208					
RONC	e	d	3	23:02:49.45			91,87	3							211					
OZOL	e	d	2	23:02:52.00			96,93	3							208					
CARE			3	23:02:54.56			99,7	3							206					

14/11/2016	01:34:37,89	,	,											10	MACERATA			M 4.0(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	d	1	01:34:37.89			77,34	3							296					
DOSS	i	d	2	01:34:38.11			77,82	3							289					
PANI	e	d	2	01:34:39.07			80,36	3							294					
ZIAN	i	d	1	01:34:41.19			82,2	3							298					
GAGG	e	d	2	01:34:41.25			84,74	3							290					
RONC	e	d	2	01:34:41.39			85,15	3							294					
OZOL	i	d	1	01:34:44.84			90,15	3							291					
CARE	i	d	2	01:34:47.32			92,2	3							289					

14/11/2016	04:05:47,25	45,9518	11,5393	7,34	1,3		0	0	0,9	90	0	0,9	C	0,22	0	CIMA DODICI (BL)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
PANI	e		2	04:05:51.11	19,3	305	53,81	2	111							0,33		0,28	1		
DOSS	i	c	1	04:05:52.43	28,3	254			105							0,17			0		
ZIAN	i	d	1	04:05:53.55	36,1	3			101							0			0,9		
GAGG	i	c	2	04:05:55.61	47,3	288	61,36	2	99							0,18		-0,45	1,4		
VARA	i	c	1	04:05:56.41	51,8	254			98							0,21			1,7		

14/11/2016	05:33:34,53	,	,											10	MACERATA			M 3.1(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	d	2	05:33:34.53			72,58	2							195					
DOSS			3	05:33:35.65			72,95	3							192					
PANI			3	05:33:36.15			74,22	3							194					
ZIAN			3	05:33:38.30			77,33	3							197					
GAGG			3	05:33:38.58											192					
RONC			3	05:33:39.03			80,85	3							193					
OZOL			3	05:33:41.77			85,64	3							192					
CARE			3	05:33:44.33											190					

14/11/2016	12:45:54,27	,	,											0	RONC					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
RONC	e	d	2	12:45:54.27			57,27	2							33					

14/11/2016	13:52:46,10	,	,												0	RONC				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
RONC	i	d	1	13:52:46.10			48,52	2							34					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

14/11/2016	14:39:30,92	,	,											0	RONC					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
RONC	e	d	1	14:39:30.92			33,83	2							34					

14/11/2016	19:50:44,50	,	,											10	MACERATA				M 3.9(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			2	19:50:44.50			81,62	3							285							
VARA	i	c	1	19:50:44.58			83,47	2							292							
PANI	e	c	2	19:50:45.82			85,52	3							291							
RONC	e	c	1	19:50:47.83			90,71	3							290							
ZIAN	i	c	1	19:50:47.91			89,94	3							293							
GAGG	e	c	2	19:50:48.08			88,97	3							286							
OZOL	i	c	1	19:50:51.54			97,52	3							287							
CARE	i	c	2	19:50:54.01			100,3	3							286							

15/11/2016	11:33:55,68	46,1298	11,1868	6,38	1,4		0	0	0,4	90	0	0,4	C	0,1	2	ALBIANO (TN)			EXPL? M 2.0(O)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	1	11:33:58.30	14,4	127				114						-0,07			1,5	
GAGG	i	c	2	11:33:58.98	18,4	254				109						-0,02			1,6	
DOSS	i	c	1	11:34:00.52	27,8	180				103						-0,03			1,5	
OZOL	e		2	11:34:01.25	32,1	341				101						-0,03			1,3	
ZIAN	i	c	1	11:34:01.46	33,3	61				101						-0,01			1,4	
VARA	e		2	11:34:02.83	40,6	214				99						0,13			0	
CARE	i	c	1	11:34:04.33	50	311				97						0,04			1,5	

15/11/2016	17:07:10,12	,	,											0	RONC					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
RONC			2	17:07:10.12			11,3	1							30					

15/11/2016	18:31:50,35	,	,											10	MACERATA			M 3.2(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	d	2	18:31:50.35			87,95	2												
DOSS			3	18:31:50.74			88,88	3												
PANI			3	18:31:52.35			91,48	3												
ZIAN			3	18:31:54.05																
GAGG			3	18:31:54.55																
OZOL			3	18:31:57.27			103,1	3												
CARE			3	18:31:59.56			107,9	3												

15/11/2016	22:58:48,65	,	,											10	RIETI				M 3.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	i	c	2	22:58:48.65			90,06	2							212							
DOSS	e	c	2	22:58:48.83			89,57	3							206							
PANI			2	22:58:49.91			92,72	3							210							
RONC			2	22:58:52.02			96,18	3							212							
GAGG			3	22:58:52.05			97,04	3							207							
ZIAN	i	c	1	22:58:52.07			95,99	3							212							
OZOL	i	c	1	22:58:55.72			103,9	3							208							
CARE	i	c	2	22:58:58.12			106,7	3							206							

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

15/11/2016	23:39:01,76	45,9108	10,8918	12,28	0,4		0	0	0,5	90	0	0,5	C	0,07	0	ARCO (TN)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
VARA	e		2	23:39:04.37	9,4	178	6,53	2	142							-0,04		0,06	0		
GAGG	e		2	23:39:05.72	19,9	15	8,94	2	122							-0,04		0,07	0,7		
DOSS	e		2	23:39:06.40	23,3	98	9,75	2	118							0,13		-0,03	0,7		

16/11/2016	10:38:43,90	46,0231	10,6468	12,87	1,1		0	0	0,9	90	0	0,9	B	0,21	0	SELLA GIUDICAR. (TN)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
RONC	i	c	1	10:38:46.66	5,1	202	48,23	2	159							0,4		0,13	1,2		
GAGG	i	c	1	10:38:48.78	25	74	52,2	2	117							0,07		-0,26	1,2		
DOSS	e		2	10:38:51.94	44,9	111	58,12	3	106							0,05		0	1,2		
CARE	i	c	1	10:38:51.94	44,8	5			106							0,08			0		

16/11/2016	11:36:41,96	46,3515	10,8510	8,31	1		0	0	0,5	90	0	0,5	B	0,13	0	MALE' (TN)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
CARE	i	d	1	11:36:44.86	14,3	304	46,89	2	120							0,06		-0,12	0		
OZOL	e	c	2	11:36:45.17	16,5	70	47,8	2	117							0,05		0,22	0,9		
GAGG	e		2	11:36:47.57	30,9	164	51,48	2	105							0,13		-0,23	0		
RONC	e		2	11:36:49.76	44,8	203	55,97	3	101							0		0,14	1		
ZIAN	e		2	11:36:51.67	55,5	99			99							0,12			1,1		

16/11/2016	11:53:17,65	,	,												10	PERUGIA	M 3.8(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			2	11:53:17.65			58,17	3							262					
VARA	e	c	2	11:53:17.92			59,09	3							268					
PANI	e	c	2	11:53:18.99			61,17	3							267					
ZIAN	e	c	2	11:53:21.29											268					
GAGG			2	11:53:21.35			64,3	3							263					
RONC	e	c	2	11:53:21.54			67,22	3							268					
OZOL	e	c	2	11:53:24.85			73,35	3							264					
CARE	i	c	1	11:53:27.31			75,77	3							262					

16/11/2016	15:48:15,36	46,1345	11,1948	1,59	1		0	0	0,4	90	0	0,4	C	0,05	2	ALBIANO (TN)	EXPL?			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	1	15:48:17.81	14,3	131				96						-0,01			0,7	
GAGG	e		2	15:48:18.62	19,1	253				95						-0,02			0,9	
DOSS	e		2	15:48:20.13	28,3	181				93						-0,07			0,9	
VARA	e		2	15:48:22.56	41,3	214				92						0,12			0	
CARE	e		2	15:48:23.91	50,1	310				92						-0,02			1,6	

16/11/2016	21:08:18,19	,	,											10						
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS	e	d	1	21:08:18.19			54,82	2							201					
PANI	i	d	1	21:08:18.44			55,47	2							200					
ZIAN	e	d	2	21:08:18.50			56,45	3							205					
VARA	e	d	2	21:08:20.28			59,81	3							204					
GAGG			2	21:08:21.64			62,93	3							201					
OZOL	e	d	2	21:08:23.44			65,09	2							202					
RONC			3	21:08:24.46			66,93	2							202					
CARE	e	d	2	21:08:26.66			69,51	2							200					



# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

16/11/2016	23:32:32,27	,	,											0	PANI					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	d	1	20:32:32.27			33,43	1							31					

17/11/2016	00:14:08,78	,	,											10	MACERATA			M 3.2(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	00:14:08.78			46,6	2							210					
DOSS			3	00:14:08.88											205					
PANI			3	00:14:09.88			47,54	3							208					
ZIAN	i	d	2	00:14:11.72			50,72	3							212					
GAGG			3	00:14:12.66											205					
RONC			3	00:14:12.67			55,18	3							208					
OZOL			2	00:14:15.19			58,44	3							203					
CARE	e	d	3	00:14:18.15											208					

17/11/2016	13:27:25,14	45,7553	11,0198	11,82	1		0	0	0,5	90	0	0,5	B	0,11	0	ALA (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e		2	13:27:28.29	12,4	309	30,34	2	134							0,22		-0,01	1,3	
DOSS	e		2	13:27:29.03	19,1	43	32	2	122							0,05		0,03	0,8	

17/11/2016	15:16:10,79	,	,											10	MACERATA			M 3.0(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE			1	13:10:46.25			4,67								2131					
DOSS			3	15:16:10.79			49,19	3							178					
VARA	e	d	1	15:16:10.81			49,93	3							176					
PANI			2	15:16:11.93											174					
RONC	i	d	2	15:16:14.60			57,39	3							173					
GAGG	i	d	2	15:16:15.17											175					
CARE			3	15:16:20.38			506,8	1							177					

17/11/2016	16:47:48,26	,	,											0	RONC					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
RONC			2	16:47:48.26			49,13	1							29					

17/11/2016	23:17:46,26	,	,											10	ASCOLI PICENO			M 3.4(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			2	23:17:46.26			85,7	3												
VARA	i	c	1	23:17:46.54			86,67	3												
PANI	e	c	2	23:17:47.93			87,48	3												
ZIAN	e	c	2	23:17:49.78			93,29	3												
GAGG			3	23:17:49.84			92,73	3												
RONC	e	c	2	23:17:50.14			95,22	3												
OZOL	e	c	1	23:17:53.56			100,8	3												
CARE	e	c	2	23:17:55.87			105,5	3												

18/11/2016	04:40:16,29	45,9553	11,7476	8,85	0,7		0	0	0,7	90	0	0,7	B	0,17	0	ARSIE' (BL)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
ZIAN	e		2	04:40:23.12	38,4	338	28,35	2	103							0,09		0,06	0	

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

18/11/2016	15:11:29,05	,	,											1	PANI,DOSS			EXPL??		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e	c	1	15:11:29.05			31,04	1							33					
DOSS			2	15:11:31.57			35,9	2							34					

18/11/2016	16:47:37,65	46,0116	11,3128		15,03	1,6		0	0	0,5	90	0	0,5	B	0,2	0	LEVICO TERME (TN)		M 1.9(O)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	d	1	16:47:40.60	4,7	21	42,51	2	163							0,25		0,06	1,1	
DOSS	i	c	1	16:47:41.84	17,5	213	44,59	2	131							0,24		-0,09	1,8	
GAGG	i	c	1	16:47:43.30	28,6	286	47,13	2	118							0,13		-0,35	1,8	
ZIAN	e	c	1	16:47:44.31	35,2	33	48,99	2	113							0,11		-0,32	1,9	
VARA	e	c	2	16:47:44.83	38,3	237	49,98	2	111							0,14		-0,2	1,6	
OZOL	i	d	1	16:47:46.35	48	335			107							0,1			1,3	
RONC	e		2	16:47:47.19	53,6	266			106							0,02			1,6	
CARE	i	d	2	16:47:49.30	66	314			103							0,07			0	

19/11/2016	01:13:29,71	,	,											10	MACERATA				M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			3	01:13:29.71			68,59	3							203							
VARA	e	c	1	01:13:30.36			68,29	2							204							
PANI			3	01:13:32.08			70,63	3							203							
GAGG			3	01:13:33.77			76,65	3							202							
ZIAN	e	c	2	01:13:33.99			73,57	3							206							
OZOL	i	c	2	01:13:37.51			82,14	2							201							
CARE			3	01:13:39.95			85,79	3							201							

19/11/2016	19:49:15,93	,	,											10	MACERATA				M 3.2(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			2	19:49:15.93			55,2	3							216							
DOSS			3	19:49:16.28			55,44	3							212							
PANI			2	19:49:17.43			56,15	3							214							
ZIAN			2	19:49:19.17			59,63	3							218							
GAGG			3	19:49:19.70			60,89	3							212							
OZOL			2	19:49:22.96			67,72	3							210							
CARE			3	19:49:25.95			71,68	3							211							

19/11/2016	22:56:10,82	45,8816	11,0738		9,38			0	0	1,9	90	0	1,9	C	0,14	0	ROVERETO (TN)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS	i	c	1	22:56:13.16	8,9	91	14,61	2	136							0,13		-0,15	0	
GAGG	e		2	22:56:15.30	24,1	338	18,49	2	111							0,05		-0,21	0	

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

20/11/2016	01:42:48,80	,	,											10	RIETI	M 3.2(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			2	01:42:48.80			91,11	3							211					
VARA	e	d	1	01:42:49.24			89,69	2							217					
PANI	e	d	2	01:42:51.13			93,99	3							215					
GAGG			3	01:42:52.53			97,8	2							211					
RONC	i	d	2	01:42:52.59			97,39	3							215					
ZIAN	e	d	1	01:42:53.09			97,16	3							219					
OZOL	e	d	2	01:42:56.63			103,9	3							212					
CARE	e	d	2	01:42:58.60			106,8	3							211					

20/11/2016	06:19:20,84	46,6380	10,6598	10,67	0,8		0	0	2,1	90	0	2,1	C	0,3	0	LASA (BZ)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e		2	06:19:25.56	23,9	173	28,52	2	114							0,24		-0,28	0	

20/11/2016	08:05:36,89	46,6398	10,6553	10,54	1,1		0	0	1,3	90	0	1,3	B	0,16	0	LASA (BZ)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e		2	08:05:41.42	24,1	172				114						0,02			0	

20/11/2016	11:53:11,75	,	,												10	MACERATA				M 3.2(I)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
VARA	e	c	1	11:53:11.75			50,93	3							202						
DOSS			3	11:53:12.07											203						
PANI	i	c	2	11:53:13.59											204						
ZIAN			2	11:53:15.32											201						
GAGG			3	11:53:15.65			60,47	3							203						
RONC			3	11:53:15.67			58,42	3							203						
CARE	e	c	2	11:53:21.17			68,18	3							201						

21/11/2016	03:05:41.69	,	,											10	PARMA				M 3.2(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	d	2	03:05:41.69			64,97	2							198							
RONC			3	03:05:42.75			66,2	2							196							
DOSS	e	d	2	03:05:43.38			67,96	2							197							
GAGG	e	d	2	03:05:44.79			70,97	2							197							
PANI			2	03:05:46.29			73,47	2							196							
CARE			2	03:05:48.68			76,08	3							198							
OZOL	e	d	3	03:05:49.74			79,93	3							196							
ZIAN	e	d	2	03:05:50.41			80,78	2							198							

21/11/2016	03:14:35,06	,	,											10	PARMA	M 2.3(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	03:14:35.06			58,39	2							152					
RONC			3	03:14:36.19			59,3	1							150					
DOSS			3	03:14:36.38			62,69	3							150					
OZOL			3	03:14:47.24			72,84	3							147					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

21/11/2016	03:25:17,16	,	,											0	PARMA			M 2.4(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	03:25:17.16			41,16	3								146				
DOSS			3	03:25:19.74												150				
RONC			3	03:25:19.77			41,81	2								145				
ZIAN			3	03:25:27.11			56,28	3								149				
OZOL			3	03:25:29.88			55,63	3								146				
DOSS	e	d	3	03:25:44.73												125				

21/11/2016	03:34:22,66	,	,											10	PARMA			M 3.1(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	1	03:34:22.66			45,26	2							185					
DOSS			3	03:34:24.01			49,48	3							186					
RONC			3	03:34:24.30			47,29	1							184					
GAGG	e	d	2	03:34:25.40			52,1	3							185					
PANI			3	03:34:27.12			56,06	3							183					
CARE			3	03:34:31.34			57,53	3							186					
OZOL			3	03:34:31.50			61,28	3							184					
ZIAN			3	03:34:31.88			61,33	3							187					

21/11/2016	03:41:05,53	,	,											10	PARMA	M 2.5(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	03:41:05.53			28,32	2								153				
DOSS			3	03:41:07.00			33,03	3								153				
RONC			3	03:41:07.02			30,02	2								152				
GAGG			3	03:41:08.41			33,68	3								153				
ZIAN			3	03:41:14.39			43,13	3								156				
CARE			3	03:41:15.84			39,22	3								156				

21/11/2016	03:46:43,07	,	,											10	MACERATA	M 3.0(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	03:46:43.07			81,26	3							182					
DOSS			3	03:46:43.77											178					
ZIAN			3	03:46:46.71											181					
OZOL			3	03:46:50.07			98,85	3							177					

21/11/2016	11:12:26,87	46,1848	11,2040	5,17	1,2		0	0	0,3	90	0	0,3	C	0,05	2	CEMBRA LISIGN. (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e		2	11:12:30.06	18	146				106						-0,01			0,9	
GAGG	e	c	2	11:12:30.71	22,1	239				103						-0,03			1,1	
OZOL	e		2	11:12:31.58	27	334				101						0,02			0,8	
ZIAN	i	c	1	11:12:32.01	29,5	70				100						0,02			1,1	
DOSS	i	c	2	11:12:32.71	33,9	182				99						-0,02			1,1	
CARE	e		2	11:12:34.94	47,3	304				96						-0,05			1,8	
VARA	e		2	11:12:35.01	46,5	211				96						0,15			1,7	

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

21/11/2016	12:16:26,02	,	,											10	MODENA			M 3.0(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		3	12:16:26.02				48,2	3							177					
DOSS		2	12:16:26.82				49,65	3							178					
RONC		3	12:16:29.71				51,85	3							176					
GAGG		3	12:16:30.46				55,7	3							178					
PANI		3	12:16:32.50				54,77	3							176					
ZIAN		3	12:16:33.39				57,98	3							177					
OZOL		3	12:16:35.44				60,53	3							176					
CARE		3	12:16:35.71				60	3							179					

21/11/2016	15:29:59,70	46,1235	11,2291	3,11	1		0	0	0,4	90	0	0,4	C	0,03	2	BASELGA DI P. (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	2	15:30:01.74	11,5	135				105						0			1,1	
GAGG	i	c	2	15:30:03.37	21,4	258				98						-0,03			1	
DOSS	i	c	2	15:30:04.38	27,2	187				97						-0,01			0,9	
ZIAN	e		2	15:30:05.00	30,9	57				96						0			1	

21/11/2016	19:55:25,79	45,9333	11,0980	10,71	1,4		0	0	0,4	90	0	0,4	A	0,15	0	CALLIANO (TN)			M 2.2(O)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS	i	c	1	19:55:28.37	9,2	130	30,12	2	139							0,17		0,03	1,5	
GAGG	i	d	1	19:55:29.75	19,9	327	32,58	2	118							0,1		-0,08	1,8	
VARA	e	c	1	19:55:29.82	19,7	233	32,67	2	119							0,2		0,06	1,2	
PANI	e	c	1	19:55:30.13	22,5	55	33,07	2	115							0,08		-0,3	1,6	
RONC	i	c	2	19:55:32.27	37,2	278	37,37	3	106							-0,14		-0,2	1	
OZOL	e		2	19:55:34.76	52,4	356			102							-0,16			1,3	
ZIAN	e		2	19:55:34.88	52,4	43			102							-0,05			1,5	
CARE	e		2	19:55:36.81	62,7	330			100							0,14			0	

22/11/2016	01:29:10,43	,	,											10	TERAMO			M 2.9(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS	e	c	1	01:29:10.43			52,42	3												
VARA	i	c	1	01:29:10.95			51,83	2												
ZIAN	e	c	2	01:29:13.70			56,34	3												
GAGG	i	c	2	01:29:13.89			58,69	3												
RONC			3	01:29:14.63			58,52	3												
OZOL	e	c	1	01:29:17.51			64,81	2												
CARE	i	c	2	01:29:20.05			68,64	3												

22/11/2016	01:55:00,34	,	,											10	PARMA			M 2.8(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	d	2	01:55:00.34			22,92	3								164				
RONC			3	01:55:01.71			25	1								162				
DOSS			3	01:55:02.19			26,26	3								159				
GAGG			3	01:55:03.71			28,1	3								161				
ZIAN			3	01:55:09.60			38,78	3								164				
CARE			3	01:55:09.78			35,05	3								160				
OZOL			3	01:55:12.57			38,31	3								161				

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

22/11/2016	11:15:46,45	46,0601	10,9046	7,91	0,4		0	0	0,4	90	0	0,4	C	0,03	0	S. LOR. DORSINO (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
GAGG	i	c	1	11:15:48.06	4,9	58	49,27	2	148							0,02		-0,01	0,5	
DOSS	e		2	11:15:51.74	29,8	132	55,78	3	105							0,03		-0,04	0	

23/11/2016	00:03:37,32	,	,											10	PERUGIA	M 3.6(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS	e	d	2	00:03:37.32			76,98	3							229					
VARA			2	00:03:37.43			77,21	2							232					
PANI	e	d	2	00:03:38.67			79,3	2							233					
GAGG	e	d	2	00:03:40.85			85	3							228					
ZIAN	e	d	2	00:03:40.89			86,15	3							234					
RONC	i	d	2	00:03:41.66			83,65	3							232					
OZOL	e	d	1	00:03:44.50			92,33	2							231					
CARE			2	00:03:47.40			94,17	3							227					

23/11/2016	01:35:07,08	,	,											10	MACERATA				M 3.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS	e	c	2	01:35:07.08			46,96	3							222							
VARA	i	c	1	01:35:07.99			46,95	2							224							
PANI	i	c	2	01:35:09.04			48,58	3							222							
ZIAN	i	c	2	01:35:11.05											224							
GAGG	e	c	2	01:35:11.49			54,34	3							220							
RONC	e	c	2	01:35:12.56			54,71	3							223							
OZOL	i	c	2	01:35:14.73			60,6	2							220							
CARE	i	c	2	01:35:17.03											222							

23/11/2016	03:06:13,69	45,7941	10,7723	10,9	0,7		0	0	0,7	90	0	0,7	B	0,15	0	MALCESINE (VR)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
VARA	e		1	03:06:16.14	10,3	70	18,21	2	137							-0,11		-0,04	0,7		
RONC	i	c	2	03:06:18.23	23,8	331	21,77	2	115							0,07		0,12	0,7		

23/11/2016	07:55:36,71	,	,											10	MACERATA				M 3.4(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			3	07:55:36.71											224							
VARA	i	d	1	07:55:37.39			75,61	3							231							
PANI			3	07:55:38.76			77,86	3							228							
RONC	e	d	2	07:55:40.84			86,03	3							229							
GAGG			3	07:55:41.63			83,29	3							225							
OZOL	i	d	2	07:55:44.67			89,71	3							227							
CARE	e	d	3	07:55:46.03											226							

23/11/2016	09:39:54,60	46,3530	10,8590	8,91	1		0	0	0,6	90	0	0,6	B	0,13	0	MALE' (TN)							
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag			
CARE	i	d	1	09:39:57.60	14,8	303	59,78	2	121							0,06		-0,06	0				
OZOL	e		2	09:39:57.79	15,8	69	60,26	2	119							0,09		0,13	0,8				
GAGG	e		2	09:40:00.32	30,9	166	4,24	2	106							0,22		-0,15	0				
RONC	e		2	09:40:02.42	45,2	204				101						-0,05			1				

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

23/11/2016	21:12:13,49	,	,											10	RIETI	M 3.8(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	21:12:13.49			54,94	2							226					
DOSS	i	d	2	21:12:13.65			54,83	3							222					
PANI	e	d	2	21:12:14.67			57,34	3							223					
ZIAN	i	d	1	21:12:16.64			60,68	2							229					
GAGG			2	21:12:16.81			60,29	3							222					
RONC			2	21:12:17.29			61,97	2							223					
OZOL	i	d	1	21:12:20.33			68,67	3							222					
CARE	e	d	2	21:12:22.94			70,91	3							224					

24/11/2016	11:07:48,82	46,1708	11,1881		7	1,1		0	0	0	90	0	0	C	0,04	2	CEMBRA LISIGN. (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
PANI	e		2	11:07:52.03	17,5	140				112						-0,02			0,9		
GAGG	e		2	11:07:52.52	20,2	241				109						0,04			1		
DOSS	e		2	11:07:54.52	32,3	180				102						0,04			1,2		

24/11/2016	16:13:01,61	46,1428	11,1893		7	1		0	0	0	90	0	0	C	0,02	2	ALBIANO (TN)				EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
PANI	e		2	16:13:04.49	15,2	132				115						0,02			1,1			
GAGG	e		2	16:13:05.05	19	250				110						-0,02			0,9			
DOSS	e		2	16:13:06.72	29,2	180				103						-0,03			1			

24/11/2016	16:30:41,07	46,1363	11,1853	1,17	1,2		0	0	0,4	90	0	0,4	C	0,08	2	ALBIANO (TN)			EXPL? M 1.7(O)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	1	16:30:43.64	15	129				94						0			1,3	
GAGG	i	c	2	16:30:44.22	18,5	251				94						-0,02			1,1	
DOSS	i	c	1	16:30:45.88	28,5	179				92						-0,06			1,2	
OZOL	e		2	16:30:46.46	31,4	341				92						0,01			1,2	
ZIAN	i	c	2	16:30:46.70	33,1	62				92						-0,02			1	
VARA	e	c	2	16:30:48.21	41,1	213				92						0,11			0	
CARE	e	c	1	16:30:49.47	49,4	310				91						-0,05			0	

25/11/2016	02:22:48,84	,	,											10	PARMA	M 2.8(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	1	02:22:48.84			66,03	2							163					
DOSS	e	d	1	02:22:50.20			68,58	2							161					
RONC	e	d	2	02:22:50.74			68,89	2							163					
GAGG	e	d	2	02:22:52.21			72,68	2							162					
PANI	e	d	2	02:22:53.05			74,77	2							162					
CARE	e	d	1	02:22:57.26			78,8	2							161					
ZIAN			2	02:22:57.34			80,71	3							164					
OZOL	e	d	2	02:22:57.37			80,21	3							162					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

26/11/2016	04:35:31,18	,	,											10	PERUGIA			DOUBLE EV. M 3.2(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			3	04:35:31.18			72,12	3												
ZIAN			3	04:35:32.58			78,22	3												
PANI	i	d	2	04:35:33.13			73,15	3												
RONC			3	04:35:34.33			77,85	3												
GAGG			3	04:35:34.87			76,93	3												
OZOL	i	d	2	04:35:39.05			84,48	3												
CARE			3	04:35:40.33			87,09	3												

27/11/2016	03:58:03,34	,	,											10	ASCOLI PICENO				M 3.5(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			3	03:58:03.34			42,97	3							224							
VARA	e	d	2	03:58:03.52			43,24	2							228							
PANI	e	d	2	03:58:04.33			45,62	3							227							
ZIAN	e	d	2	03:58:06.24			50,09	3							229							
RONC			2	03:58:07.11			53,43	3							228							
GAGG	e	d	2	03:58:07.39			50,32	3							224							
OZOL	e	d	2	03:58:09.85			58,37	3							225							
CARE	e	d	2	03:58:12.19			60,19	3							222							

27/11/2016	05:39:15,40	,	,											10	C. MARCHIG. PESARESE	M 2.6(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			3	05:39:15.40			45,33	2							162					
VARA			2	05:39:16.58			45,82	2							163					
PANI			3	05:39:16.73			45,93	3							164					
ZIAN			2	05:39:18.69			48,24	2							166					
GAGG			3	05:39:19.34			50,61	3							162					
RONC			3	05:39:20.86			51,94	2							164					
OZOL			3	05:39:22.59											162					

27/11/2016	11:31:23,15	46,7054	10,8670	3,16	1,4		0	0	0,4	90	0	0,4	C	0,2	0	SENALES (BZ)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
CARE	e		1	11:31:29.12	33,8	203	33,06	3	95							0,16		-0,43	1,6		

27/11/2016	15:42:00,07	,	,											10	MACERATA			M 3.1(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	15:42:00.07			37,4	3							204					
DOSS			3	15:42:00.20			37,3	3							202					
PANI			3	15:42:01.57			39,51	3							202					
ZIAN			3	15:42:03.64											206					
RONC			3	15:42:05.65			46,67	3							202					
OZOL			3	15:42:06.76			51,18	3							200					
CARE			3	15:42:09.44			55,63	3							200					



# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

27/11/2016	16:17:31,27	,	,											10	MACERATA				M 3.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			3	16:17:31.27											217							
VARA	e	d	2	16:17:32.02			69,73	2							216							
PANI			3	16:17:33.14			72,23	3							215							
GAGG			3	16:17:35.48											216							
ZIAN			3	16:17:35.50			75,85	3							217							
RONC			3	16:17:35.55			79	3							215							
OZOL			3	16:17:39.20			86,52	3							214							
CARE			3	16:17:41.22			84,78	3							213							

27/11/2016	19:10:11,38	,	,											10	MACERATA				M 3.5(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			3	19:10:11.38			50,16	3							224							
VARA	e	d	1	19:10:11.60			50,89	3							225							
PANI	e	d	2	19:10:12.96			52,72	3							222							
RONC			3	19:10:15.07			58,11	3							224							
ZIAN			2	19:10:15.37			55,42	3							224							
GAGG			3	19:10:15.56			57,76	3							222							
OZOL	i	d	2	19:10:18.60			64,24	3							222							
CARE			3	19:10:21.07			68,65	3							223							

27/11/2016	19:35:20,04	,	,											10	MACERATA				M 3.6(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			3	19:35:20.04			59,69	3							231							
VARA	e	d	2	19:35:20.59			58,61	2							235							
PANI			2	19:35:22.10			61,03	2							234							
ZIAN			2	19:35:24.25			63,87	3							237							
RONC			3	19:35:24.44			65,89	3							234							
GAGG			3	19:35:24.61			65,07	3							231							
OZOL			2	19:35:27.67			72,83	2							231							
CARE			2	19:35:30.43			75,48	3							232							

27/11/2016	19:52:04,10	,	,											10	MACERATA				M 3.2(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	i	d	2	19:52:04.10			41,76	3							197							
DOSS			3	19:52:04.70			42,94	3							192							
PANI			3	19:52:05.64			44	3							195							
RONC			3	19:52:07.51			49,67	3							196							
ZIAN			3	19:52:07.55			47,88	3							197							
GAGG			3	19:52:08.40			49,89	3							192							
OZOL			3	19:52:10.95			57,75	3							194							
CARE			3	19:52:13.87			59,04	3							189							

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

27/11/2016	20:41:10,98	,	,											10	MACERATA			M 3.4(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	d	2	20:41:10.98			49,43	2							220					
DOSS			3	20:41:11.69			49,87	3							215					
PANI			3	20:41:12.45			51,25	3							218					
ZIAN			3	20:41:14.63			57,63	3							222					
RONC			3	20:41:15.70			57,26	3							218					
OZOL			3	20:41:17.98			64,37	3							216					
CARE			3	20:41:21.20			66,94	3							212					

27/11/2016	20:59:26,12	,	,											10	MASSA CARRARA	M 2.7(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	3	20:59:26.12			49,38	2							160					
DOSS			3	20:59:27.74			51,52	3							160					
RONC			3	20:59:28.04			51,2	2							159					
GAGG			3	20:59:29.14			54,26	3							160					
PANI			2	20:59:30.53			55,97	3							159					
CARE			3	20:59:33.58			59,83	3							162					
OZOL			3	20:59:35.32			63,8	3							158					
ZIAN			3	20:59:35.44			63,68	3							161					

27/11/2016	21:42:05,81	,	,											10	MACERATA			M 3.9(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			2	21:42:05.81											271					
VARA	e	d	2	21:42:05.82			44,15	2							276					
PANI	e	d	2	21:42:07.41			45,45	3							275					
ZIAN	e	d	2	21:42:09.27			49,35	3							277					
RONC	e	d	2	21:42:09.60			55,23	3							274					
GAGG	e	d	2	21:42:09.81			50,28	3							270					
OZOL	e	d	1	21:42:12.84			60,29	3							270					
CARE	e	d	2	21:42:15.25			59,79	3							270					

28/11/2016	00:17:39,54	45,6081	10,6028	10,8	1,1		0	0	0,5	90	0	0,5	C	0,1	0	TOSCOLANA MAD. (BS)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e		2	00:17:45.54	33,3	43	50,37	2	108							0,02		0,18	1,2	
RONC	e		2	00:17:46.87	41,5	2	52,52	2	105							0,01		-0,05	1	
DOSS	e		2	00:17:48.83	54,7	56				101						-0,24			0	

28/11/2016	05:13:40,02	,	,											10	RIETI	M 3.1(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	2	05:13:40.02			81,34	2							198					
DOSS			3	05:13:40.54			82,36	3							192					
PANI	i	d	2	05:13:41.86			84,65	2							196					
RONC	e	d	2	05:13:43.60			88,2	3							196					
ZIAN	e	d	2	05:13:43.66			87,75	3							198					
GAGG	i	d	3	05:13:44.27			88,19	3							194					
OZOL	i	d	2	05:13:47.39			95,14	3							193					
CARE			3	05:13:49.26			96,94	3							192					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

28/11/2016	06:36:35,47	,	,											10	PERUGIA	M 3.3(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	c	2	06:36:35.47			74,62	2							211					
DOSS			3	06:36:35.59			74,41	3							206					
PANI			3	06:36:37.41			76,87	3							207					
GAGG			2	06:36:39.00											207					
RONC	e	c	2	06:36:39.27			81,62	3							208					
OZOL			3	06:36:43.90			86,76	3							205					
CARE			3	06:36:45.14			90,08	3							207					

28/11/2016	07:54:20,49	,	,											10	MACERATA				M 3.6(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			3	07:54:20.49											229							
VARA	e	c	1	07:54:20.82			58,85	3							233							
PANI			3	07:54:22.24			59,96	3							233							
RONC			3	07:54:24.21			66,73	3							232							
GAGG			2	07:54:24.45			67,14	3							228							
ZIAN			3	07:54:24.68											232							
OZOL			3	07:54:27.81			74,61	3							229							
CARE			3	07:54:30.15			77,59	3							230							

28/11/2016	11:10:36,72	46,1330	11,1863	3,71	0,8		0	0	0,1	90	0	0,1	C	0,01	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	2	11:10:39.32	14,7	129				104						0			0,7	
GAGG	e		2	11:10:39.95	18,4	253				101						0			0	
DOSS	e		2	11:10:41.57	28,1	180				98						-0,01			1	
ZIAN	e		2	11:10:42.44	33,2	61				96						0			0,9	

28/11/2016	11:16:19,27	46,1763	11,2038	13,2	1		0	0	0,5	90	0	0,5	B	0,1	2	CEMBRA LISIGN. (TN)				EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
PANI	e		2	11:16:22.94	17,2	144				127						-0,04			0,8		
GAGG	e		2	11:16:23.62	21,6	241				121						0,03			1		
OZOL	e		1	11:16:24.54	27,8	335				115						0			0,8		
ZIAN	e		2	11:16:24.83	29,9	68				114						-0,02			0,8		
DOSS	e		2	11:16:25.18	33	182				112						-0,16			1,2		
VARA	e		2	11:16:27.30	45,6	211				106						-0,09			0		
CARE	e	c	2	11:16:27.85	47,8	305				105						0,1			1,7		

28/11/2016	11:18:23,07	46,1855	11,1990	6,97	0,9		0	0	0,1	90	0	0,1	B	0,01	2	CEMBRA LISIGN. (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e		2	11:18:26.41	18,3	145				111						-0,01			0,7	
GAGG	i	c	2	11:18:26.98	21,8	239				108						0			0	
OZOL	e		2	11:18:27.80	26,7	335				105						0			0,9	
ZIAN	e		1	11:18:28.31	29,8	70				103						0			0,8	
DOSS	e		2	11:18:29.03	34	181				102						0,03			1	

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

28/11/2016	11:33:31,76	46,1313	11,1851	4,5	0,8		0	0	0,1	90	0	0,1	B	0,01	2	ALBIANO (TN)	EXPL?			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e	c	2	11:33:34.38	14,6	128				107						0			0,5	
GAGG	e		2	11:33:34.98	18,3	253				104						-0,01			1	
DOSS	e		2	11:33:36.59	27,9	179				99						-0,01			0	
ZIAN	e		2	11:33:37.52	33,3	61				98						0,01			0,9	

28/11/2016	11:40:35,08	46,1316	11,1906	0,88	1		0	0	0,9	90	0	0,9	C	0,12	2	ALBIANO (TN)	EXPL?			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e		2	11:40:37.60	14,3	129				94						0,07			0,8	
GAGG	i	d	2	11:40:38.14	18,7	253				93						-0,14			1	
DOSS	e		2	11:40:39.81	28	180				92						-0,05			1	
ZIAN	e		2	11:40:40.67	32,9	61				92						-0,04			0,9	
VARA	e		2	11:40:42.35	40,9	214				91						0,28			1,5	

28/11/2016	11:46:24,12	46,1343	11,1820	2,06	1,1		0	0	0,5	90	0	0,5	C	0,09	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	1	11:46:26.69	15	128				98						-0,02			1,1	
GAGG	e	c	2	11:46:27.20	18,2	252				96						-0,04			0,9	
DOSS	e	c	1	11:46:28.88	28,3	179				94						-0,08			1	
ZIAN	i	c	1	11:46:29.77	33,4	62				94						-0,06			1	
VARA	e		2	11:46:31.29	40,8	213				93						0,19			0	
CARE	e		2	11:46:32.50	49,4	311				92						-0,06			0	

28/11/2016	13:36:08,00	46,5576	10,6078	3,22	0,7		0	0	0,6	90	0	0,6	C	0,06	0	CIMA VERTANA (BZ)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	d	1	13:36:10.89	16,3	155	13,03	2	101							0,05		-0,03	0	

28/11/2016	16:22:32,80	,	,											10	MACERATA				M 3.6(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			3	16:22:32.80			72,49	3							230							
VARA			2	16:22:34.23			71,44	2							236							
PANI			3	16:22:36.25			74,21	3							231							
ZIAN	i	c	3	16:22:37.90			76,28	3							236							
RONC			3	16:22:39.14			80,39	3							233							
OZOL			3	16:22:41.38			86,94	3							230							
CARE			3	16:22:43.88			89,18	3							229							

28/11/2016	22:29:33,00	,	,												10	MACERATA			M 3.4(I)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			3	22:29:33.00											225					
VARA	e	c	1	22:29:33.02			70,28	3							229					
PANI			2	22:29:34.61			73,68	3							228					
GAGG			3	22:29:36.40											226					
ZIAN	i	c	2	22:29:36.61											229					
RONC			3	22:29:36.63			80,34	3							228					
OZOL			2	22:29:40.31											224					
CARE			3	22:29:41.59											225					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

28/11/2016	22:40:36,29	45,9580	12,1611	10,16	1,8		0	0	0,9	90	0	0,9	C	0,31	0	CISON VALMARINO (TV) M 2.3(O)
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st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
ZIAN	e	c	1	22:40:46.38	58,2	307			100							-0,01			1,8	
PANI	e		2	22:40:47.62	64,8	279			99							0,11			1,8	
DOSS	e		2	22:40:49.55	75,9	263			98							0,16			1,9	
GAGG	e		2	22:40:52.55	94,2	279			96							0,07			2,2	
VARA	e		2	22:40:53.19	99,3	261			96							-0,16			2,2	
OZOL	e		2	22:40:53.71	98,9	300			96							0,42			2	

29/11/2016	01:53:52,49	,	,											10	PERUGIA	M 3.4(I)
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st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	01:53:52.49			90,72	3							219					
DOSS			3	01:53:52.80											219					
PANI			3	01:53:55.15			93,87	3							220					
GAGG			3	01:53:55.67											218					
RONC			3	01:53:56.10											220					
ZIAN	e	c	2	01:53:56.48			99,73	3							219					
OZOL			3	01:54:00.21											217					
CARE			3	01:54:02.19			47,06	3							216					

29/11/2016	01:59:30,36	45,7461	11,0956	9,93	1,5		0	0	0,4	90	0	0,4	B	0,16	0	ALA (TN)	DOUBLE EV. M 1.9(O)
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st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS	i	d	1	01:59:33.96	16,5	26	36,43	2	121							0,3		0,2	1,5	
VARA	e	c	2	01:59:33.97	17,8	300	36,69	2	119							0,12		0,12	1,5	
PANI	e		2	01:59:37.32	38,6	29	42,1	2	104							0,15		-0,39	1,4	
GAGG	i	d	1	01:59:37.35	39	344	42,62	3	104							0,12		0,03	0	
RONC	e		2	01:59:38.43	45	305	44,21	3	102							0,19		-0,18	1,3	
ZIAN	e		2	01:59:42.20	69,2	32			98							-0,1			1,5	
OZOL	e		2	01:59:42.82	73,1	357			98							-0,15			1,5	
CARE	e		2	01:59:44.37	81,4	338			97							-0,01			0	

29/11/2016	03:26:43,00	,	,											10	REGGIO EMILIA	M 2.3(I)
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st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	1	03:26:43.00			58,16	2							136					
DOSS	e	d	1	03:26:44.38			60,68	2							136					
RONC	i	d	2	03:26:45.77			62,77	2							135					
GAGG	e	d	2	03:26:46.97			65,81	2							136					
PANI	e	d	2	03:26:47.52			66,07	2							135					
ZIAN	e	d	2	03:26:51.43			73,51	2							138					
OZOL	e	d	2	03:26:52.00			73,55	2							134					
CARE			3	03:26:52.58			74,2	3							139					

29/11/2016	03:36:29,45	,	,											10	ASCOLI PICENO	M 3.6(I)
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st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			2	03:36:29.45			70,72	3							235					
VARA	e	c	1	03:36:29.65			70,34	2							238					
PANI	e	c	2	03:36:30.92			72,52	2							237					
ZIAN	i	c	1	03:36:32.95			76,54	3							239					
GAGG	e	c	2	03:36:32.99			77,87	3							234					
RONC			2	03:36:33.12			76,83	2							237					
OZOL	e	c	1	03:36:36.59			83,04	2							235					
CARE	e	c	2	03:36:39.05			86,97	3							234					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

29/11/2016	04:19:49,29	,	,											10	MACERATA			M 3.4(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	c	1	04:19:49.29			87,22	2							227					
DOSS			3	04:19:49.74											222					
PANI			3	04:19:50.38											224					
ZIAN			2	04:19:52.51			93,63	3							227					
GAGG			3	04:19:53.16											223					
RONC			3	04:19:53.94			94,46	3							224					
OZOL	e	c	2	04:19:55.93			102,5	3							221					
CARE	i	c	2	04:19:58.40			103,6	3							225					

29/11/2016	16:15:00,93	,	,											10	L'AQUILA	M 4.4(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			2	16:15:00.93			44,26	3							344					
VARA	e	c	1	16:15:01.05			43,05	2							352					
PANI	e	c	2	16:15:02.96			46,52	2							350					
GAGG	e	c	1	16:15:04.31			49,36	2							346					
RONC	i	c	2	16:15:04.42			50,92	2							352					
ZIAN	e	c	2	16:15:04.98			49,41	2							356					
OZOL	e	c	1	16:15:08.44			57,56	2							348					
CARE	e	c	2	16:15:10.45			59,82	2							345					

29/11/2016	20:02:44,90	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	i	d	1	20:02:44.90			45,84	1							26					

30/11/2016	05:53:15,37	,	,											10	REGGIO EMILIA	M 3.5(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	1	05:53:15.37			31,85	2							238					
DOSS	i	d	1	05:53:17.05			34,2	2							239					
RONC	e	d	2	05:53:17.67			35,53	2							237					
GAGG	e	d	1	05:53:19.36			38,63	2							239					
PANI	i	d	2	05:53:19.81			39,71	2							237					
ZIAN	e	d	1	05:53:23.86			47,65	2							240					
OZOL	e	d	1	05:53:24.54			46,07	2							237					
CARE	e	d	1	05:53:24.71			46,29	2							239					

30/11/2016	10:10:40,52	45,7823	11,0506	10,06	0,6		0	0	0,7	90	0	0,7	B	0,13	0	ALA (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e		2	10:10:43.39	12,9	292	45,6	2	128							0,06		0,09	0	
DOSS	e		2	10:10:43.83	15,3	45	46,16	2	123							0,18		0,07	0,5	

30/11/2016	14:47:46,25	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE			1	14:47:46,25			46,78	1							26					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

01/12/2016	10:23:30,37	45,7871	10,6086	15,18	1,1		0	0	0,3	90	0	0,3	B	0,07	0	VALVESTINO (BS)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
RONC	i	c	2	10:23:34.90	21,6	3	38,31	2	125							0,02		-0,08	1,2		
VARA	e		2	10:23:35.12	22,8	79	38,74	3	124							0,07		0,04	0		

01/12/2016	11:31:45,71	,	,											10	MACERATA				M 3.9(l)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	c	1	11:31:45.71			85,59	3							278							
DOSS			2	11:31:46.11											275							
PANI			3	11:31:47.03			87,08	3							278							
ZIAN	e	c	2	11:31:49.08			95,02	3							280							
GAGG			2	11:31:50.47			93,22	3							272							
RONC			3	11:31:50.67			94,19	3							277							
OZOL	e	c	2	11:31:52.54											274							
CARE	e	c	3	11:31:54.95			102,2	3							273							

01/12/2016	14:05:55,12	46,4455	10,6990	8,41	0,7		0	0	1,3	90	0	1,3	B	0,17	0	RABBI (TN)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
CARE	i	d	1	14:05:56.72	2,3	183	57,72	2	164							0,11		-0,05	0,1		
OZOL	e		2	14:06:00.06	27,5	100	3,71	2	107							0,03		-0,16	1		

01/12/2016	15:42:27,79	46,1481	11,1871	7	1		0	0	0	90	0	0	C	0,01	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e		2	15:42:30.74	15,7	133				114						0			1	
GAGG	e		2	15:42:31.26	19,1	248				110						-0,01			1,2	
DOSS	e		2	15:42:33.02	29,8	180				103						-0,01			0,9	

01/12/2016	15:59:44,77	46,1319	11,1876	5,81	1		0	0	0,3	90	0	0,3	B	0,03	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	1	15:59:47.45	14,5	128				112						0,01			1	
GAGG	e		2	15:59:48.04	18,5	253				107						-0,05			1	
DOSS	e		2	15:59:49.66	28	180				102						0			1,1	
OZOL	e		2	15:59:50.38	31,9	341				100						0,06			0,9	
ZIAN	e	c	2	15:59:50.52	33,1	61				100						0			1	

01/12/2016	16:18:00,79	46,0983	11,1803	2,4	0,7		0	0	0	90	0	0	C	0,12	2	CIVEZZANO (TN)	EXPL?			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e		2	16:18:03.08	13,1	114				100						0,02			0,7	
GAGG	e		2	16:18:03.64	17,2	265				98						-0,12			0,6	
DOSS	e		2	16:18:04.87	24,3	178				96						-0,08			0,8	

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

01/12/2016	16:19:28,82	46,1316	11,1808	3,74	1,3		0	0	0,3	90	0	0,3	C	0,06	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	1	16:19:31.45	14,9	127				104						0			1,3	
GAGG	e	c	1	16:19:31.97	18	253				102						0,01			1,3	
DOSS	e	c	2	16:19:33.64	28	179				98						-0,01			1,3	
OZOL	e		2	16:19:34.31	31,8	342				97						0,02			1,3	
ZIAN	e		2	16:19:34.54	33,6	61				96						-0,06			1,2	
VARA	e		2	16:19:35.77	40,5	213				95						0			0	
CARE	e		2	16:19:37.24	49,5	311				94						-0,06			1,6	

01/12/2016	16:58:10,31	,	,											10	MACERATA			M 3.5(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			3	16:58:10.31			48,21	3							212					
VARA	i	d	1	16:58:10.43			47,61	2							215					
ZIAN	i	d	2	16:58:14.06			53,89	3							215					
GAGG			3	16:58:14.69			56,22	3							213					
RONC			3	16:58:15.22			54,89	3							212					
OZOL			3	16:58:17.40			61,93	3							212					
CARE			3	16:58:19.95			64,91	3							208					

01/12/2016	20:08:25,55	,	,											10	MACERATA	M 3.2(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	20:08:25.55			62,93	2							198					
DOSS			3	20:08:25.56			62,14	3							194					
RONC			3	20:08:29.18			70,17	3							197					
ZIAN			2	20:08:29.21			69,79	3							201					
GAGG			3	20:08:29.47			69,77	3							194					
OZOL			3	20:08:32.66			77,29	2							195					
CARE			3	20:08:34.98			80,01	3							194					

01/12/2016	21:48:20,03	,	,											10	MACERATA			M 3.2(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			2	21:48:20.03			56,86	3							200					
VARA	e	c	2	21:48:20.38			58,13	2							208					
PANI			3	21:48:22.28			60,01	3							206					
RONC	e	c	3	21:48:23.84			64,59	3							206					
GAGG			3	21:48:24.08			64,96	3							201					
ZIAN			3	21:48:24.16			64,29	3							208					
OZOL	e	c	2	21:48:27.37			71,82	2							202					
CARE			3	21:48:29.03			74,74	3							200					

01/12/2016	23:01:03,97	,	,											10	SARNICO (BG)	M 2.4(O)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
RONC	e	c	1	23:01:03.97																
VARA	e	c	1	23:01:06.29																
GAGG			3	23:01:08.83																
DOSS			2	23:01:09.88																
PANI	i	c	2	23:01:13.34																
OZOL			3	23:01:13.60																
ZIAN	e	c	1	23:01:17.23																



# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

02/12/2016	07:19:51,92	,	,											0	OZOL					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
OZOL	i	c	1	07:19:51.92			53,07	1												

02/12/2016	07:20:07,90	,	,											0	OZOL					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
OZOL	i	c	1	07:20:07.90			8,57	1							27					

02/12/2016	07:42:59,29	,	,											0	RONC					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
RONC	e	c	2	07:42:59.29			60,5	1							30					

02/12/2016	10:59:57,74	46,1481	11,1445	0,73	1		0	0	0	90	0	0	C	0,02	2	TRENTO	EXPL?			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
GAGG	e		2	11:00:00.47	16,1	243				93						-0,02			1	
OZOL	e		2	11:00:02.76	29,2	346				91						0,02			1	

02/12/2016	16:31:18,26	,	,											0	RONC					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
RONC	e	d	1	16:31:18.26			19,52	1							27					

03/12/2016	02:07:48,67	,	,											10	MACERATA			M 3.2(l)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	c	1	02:07:48.67											38					
DOSS			2	02:07:49.12			86,32	3							200					
PANI			3	02:07:50.72			88,21	3							202					
ZIAN	i	c	2	02:07:52.02			92,36	3							209					
GAGG			3	02:07:52.63			94,73	3							199					
RONC			3	02:07:52.93			93,35	3							204					
OZOL	e	c	2	02:07:55.47			100,4	3							199					
CARE			3	02:07:58.47			102	3							198					

03/12/2016	02:34:06,83	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	02:34:06.83			7,6	2							26					

03/12/2016	02:43:30,80	,	,											10	MACERATA			M 3.8(l)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			3	02:43:30.80											250					
VARA	e	c	2	02:43:30.99			70,93	3							257					
PANI			2	02:43:32.59			75,91	3							252					
GAGG			3	02:43:34.45											249					
ZIAN			2	02:43:34.56			80,2	3							257					
RONC			3	02:43:34.91											254					
OZOL	e	c	1	02:43:38.18			85,89	3							247					
CARE			3	02:43:40.95			87,42	3							248					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

03/12/2016	03:43:52,51	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE		2		03:43:52.51			52,99	1							25					

03/12/2016	05:29:14,27	45,6035	10,8660	15,48	1		0	0	0,5	90	0	0,5	C	0,12	0	DOLCE' (VR)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
VARA	e	2		05:29:19.35	24,8	5	23,25	2	122							0,08		0,08	1		
GAGG	e	2		05:29:23.61	53,8	8	31,46	2	106							-0,23		0,15	1,4		

03/12/2016	05:38:25,18	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	05:38:25.18			25,25	1							26					

03/12/2016	07:14:53,75	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	d	1	07:14:53.75			53,98	1							26					

03/12/2016	09:02:42,58	,	,											10	FRANCE				M 3.8(l)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
CARE		3		09:02:42.58											212							
RONC		3		09:02:43.46											216							
VARA		3		09:02:45.97			92,6	3							217							
GAGG		3		09:02:46.97											214							
DOSS		3		09:02:48.33			95,4	3							212							
PANI		3		09:02:49.84			96,67	3							214							

03/12/2016	12:54:27,09	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	i	d	1	12:54:27.09			27,23	1							24					

03/12/2016	13:17:56,46	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	13:17:56.46			56,73	1							24					

03/12/2016	16:17:48,59	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	d	1	16:17:48.59			48,79	1							25					

03/12/2016	21:27:31,85	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	21:27:31.85			33,49	1							29					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

03/12/2016	22:24:01,35	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	22:24:01.35			1,62	2							26					

03/12/2016	23:28:55,22	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	d	1	23:28:55.22			55,8	2							22					

03/12/2016	23:48:42,19	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE			2	23:48:42.19			42,58	2							25					

04/12/2016	00:05:09,01	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	00:05:09.01			9,65	1							23					

04/12/2016	03:23:40,74	,	,												0	CARE				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	03:23:40.74			40,98	1							25					

04/12/2016	03:32:01,75	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	d	1	03:32:01.75			2,03	1							23					

04/12/2016	04:01:26.59	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	04:01:26.59			26,99	2							28					

04/12/2016	04:11:57,55	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	04:11:57.55			57,9	1							25					

04/12/2016	05:08:34,94	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	05:08:34.94			35,09	1							25					

04/12/2016	05:18:19,81	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	05:18:19.81			20,14	1							27					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

04/12/2016	05:26:32,06	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	d	1	05:26:32.06			32,2	1							24					

04/12/2016	06:12:41,16	,	,											0	CARE	DOUBLE EVENT				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	06:12:41.16			41,34	1												

04/12/2016	06:15:12,91	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	2	06:15:12.91			13,33	1							22					

04/12/2016	06:55:58,44	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	06:55:58.44			58,79	1							31					

04/12/2016	07:45:03,33	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	07:45:03.33			3,48	1							26					

04/12/2016	08:49:00,54	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	d	1	08:49:00.54			0,83	1							28					

04/12/2016	10:04:25,73	46,5441	10,7751	8,6	1,1		0	0	1	90	0	1	B	0,19	0	MARTELLO (BZ)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	i	c	1	10:04:28.72	14,6	204	30,66	2	120							0,09		-0,23	0	
OZOL	e		2	10:04:30.80	26,4	126	34,43	3	108							0,32		0,25	0	

04/12/2016	13:37:34,10	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	13:37:34.10			34,22	1							25					

04/12/2016	16:12:14,67	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	16:12:14.67			14,75	1							27					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

04/12/2016	20:23:12,14	,	,											10	MACERATA			M 3.5(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS	e	d	1	20:23:12.14			49,27	3							245					
VARA			2	20:23:12.36			50,1	2							250					
PANI	i	d	2	20:23:13.72			52,61	3							248					
ZIAN	e	d	2	20:23:15.72			54,87	3							251					
GAGG	e	d	2	20:23:15.73			56,28	3							246					
RONC	e	d	2	20:23:15.79			57,62	3							249					
OZOL	e	d	1	20:23:19.35			63,38	2							246					
CARE	e	d	2	20:23:21.78			66,53	3							244					

04/12/2016	21:53:58,81	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE		1		21:53:58.81			59,24	1							32					

04/12/2016	22:25:55,33	46,5420	10,3540	6,29	1,2		0	0	0,6	90	0	0,6	B	0,16	0	GIOGO S. MARIA (SO)		M 0.8(S)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	2	22:26:00.42	29,4	116	4,34	2	102							-0,06		-0,15	1,2	
OZOL	e		2	22:26:05.07	55,8	106			96							0,15			1,2	
RONC	e		2	22:26:06.71	65,7	162			95							0,09			1,2	

04/12/2016	22:28:19,61	46,5411	10,3548	5,96	0,7		0	0	0,4	90	0	0,4	B	0,09	0	GIOGO S. MARIA (SO)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e		2	22:28:24.64	29,3	116	28,58	2	101							-0,08		-0,13	0	

04/12/2016	22:31:30,18	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE		2		22:31:30.18			31,03	2							28					

04/12/2016	22:37:10,81	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	22:37:10.81			11,21	2							24					

04/12/2016	22:38:16,26	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	d	1	22:38:16.26			16,66	2							28					

05/12/2016	00:28:54.63	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	00:28:54.63			55,22	2												

05/12/2016	02:29:33,19	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	d	1	02:29:33.19			33,52	2							26					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

05/12/2016	04:13:23,24	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	04:13:23.24			23,7	2							29					

05/12/2016	07:33:09,21	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE		2		07:33:09.21			9,62	2							30					

05/12/2016	11:44:48,38	,	,											10						
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS		3		11:44:48.38			61,25	2							122					
VARA		2		11:44:48.49			61,62	3							123					
PANI		3		11:44:51.06			67,42	3							119					
RONC		3		11:44:52.05			69,12	3							121					
GAGG		3		11:44:52.06			68,67	2							122					
ZIAN		3		11:44:55.33			73,22	3							123					

05/12/2016	15:59:32.62	,	,												0	CARE				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	d	1	15:59:32.62			33,31	1												

05/12/2016	17:47:10.13	,	,												0	CARE				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE		2		17:47:10.13																

05/12/2016	18:57:46,59	,	,												0	CARE				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	d	1	18:57:46.59			46,76	1							22					

05/12/2016	20:30:54.50	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	d	1	20:30:54.50			55.29	1							26					

05/12/2016	20:34:03,43	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	d	1	20:34:03.43			4,35	2							25					

05/12/2016	22:07:58,53	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE		1		22:07:58.53			59,49	2							30					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

05/12/2016	22:55:31,55	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE		1		22:55:31.55			32,29	2												

05/12/2016	23:20:35,34	45,6895	10,9451	10,15	0,8		0	0	0,4	90	0	0,4	B	0,15	0	AVIO (TN)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
VARA	e	2	23:20:38.81	15,6	346	41,25	2	123								0,28		0,24	0,8		
DOSS	e	2	23:20:40.50	28,4	42	44,48	3	110								0		-0,04	0,7		
RONC	e	2	23:20:42.33	40,9	322	47,85	2	104								-0,22		-0,32	1,1		
ZIAN	e	2	23:20:49.38	80,9	36			97								0,1			0		

05/12/2016	23:43:26,37	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	0	23:43:26.37			26,73	1							28					

05/12/2016	23:57:49,97	,	,												0	CARE	DOUBLE EVENT			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	23:57:49.97			51,11	1												

06/12/2016	00:51:27,93	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE		1		00:51:27.93			28,25	1							32					

06/12/2016	01:27:55,43	45,7850	11,4193	4,91	0,7		0	0	0,5	90	0	0,5	C	0,07	0	ARSIERO (VI)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS	e	d	2	01:27:59.03	20,8	301	61,94	2	103							-0,05		0,01	0,6	
PANI	e		2	01:28:00.61	30,3	347				99						-0,06			0,8	

06/12/2016	01:43:50,59	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	i	d	1	01:43:50.59			51,31	1							26					

06/12/2016	01:51:06,63	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE		1		01:51:06.63			7,26	1							30					

06/12/2016	02:04:06,52	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	02:04:06.52			6,86	1							27					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

06/12/2016	02:24:36,97	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	02:24:36.97			37,47	2							28					

06/12/2016	03:12:37,46	,	,											0	CARE	DOUBLE EVENT				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE			2	03:12:37.46																

06/12/2016	03:31:44,39	,	,											0	CARE	DOUBLE EVENT				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	03:31:44.39			45,75	2												

06/12/2016	04:27:03,52	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE			2	04:27:03.52			4,07	2							27					

06/12/2016	05:17:48,63	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	05:17:48.63			48,87	2							28					

06/12/2016	06:19:37,63	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	06:19:37.63			38,02	1							31					

06/12/2016	06:33:43,66	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE			1	06:33:43.66			44,03	1							22					

06/12/2016	07:05:05,80	,	,											10	PARMA	M 2.2(l)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	07:05:05.80			24,18	2							116					
RONC			3	07:05:07.46			24,69	3							114					
DOSS			3	07:05:07.51			26,62	3							115					
GAGG			2	07:05:08.69			28,38	2							116					
PANI	e	d	2	07:05:10.21			30,79	2							115					
CARE			3	07:05:12.85			35,48	3							115					

06/12/2016	07:07:13,09	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	07:07:13.09			13,27	1							32					



# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

06/12/2016	07:32:28,38	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE		1		07:32:28.38			28,92	2							26					

06/12/2016	08:10:07,89	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	d	2	08:10:07.89			8,15	1							28					

06/12/2016	08:52:31,12	45,7745	11,1183	8,06	0,8		0	0	0,6	90	0	0,6	B	0,14	0	VALLARSA (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS	i	c	2	08:52:33.85	12,9	25	35,95	2	122							0,12		0,19	0,6	
VARA	e		2	08:52:34.67	18,2	288	37,16	2	114							0,15		-0,01	0,9	
PANI	e		2	08:52:37.11	35	29			103							-0,15			0,9	
GAGG	e		2	08:52:37.56	36,5	340			102							0,05			1,2	

06/12/2016	10:15:33,22	45,7795	11,1246	9,14	1,1		0	0	0,7	90	0	0,7	B	0,18	0	VALLARSA (TN)				M 1.0(O)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
DOSS	i	d	1	10:15:36.10	12,2	24	38,24	2	127							0,27		0,38	1,1		
VARA	e		2	10:15:36.98	18,5	286	39,44	2	116							0,24		-0,05	0		
PANI	i	c	2	10:15:39.36	34,3	28	43,73	2	105							0,08		-0,28	1		
GAGG	e		2	10:15:39.56	36,2	339	44,37	2	104							-0,03		-0,2	1,1		

06/12/2016	10:23:10,89	45,7755	11,1185	9,27	0,9		0	0	0,4	90	0	0,4	B	0,11	0	VALLARSA (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS	i	d	1	10:23:13.76	12,8	25	15,89	2	126							0,17		0,19	0,9	
VARA	e		2	10:23:14.52	18,2	288	17,07	2	117							0,15		-0,02	0,7	
PANI	i	c	2	10:23:17.04	34,9	29	21,8	3	105							-0,02		-0,07	1,1	
GAGG	e		2	10:23:17.24	36,4	340	22,13	2	104							-0,07		-0,19	1	

06/12/2016	10:31:10,34	46,7251	10,3851	1,77	1,2		0	0	0,3	90	0	0,3	C	0,06	0	MONPICCO (BZ)							
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag			
CARE	e		2	10:31:17.45	41,1	144	22,74	2	92							0,08		-0,12	0				

06/12/2016	10:40:09,20	,	,											10	PERUGIA			M 3.2(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	10:40:09.20			49,95	3							201					
DOSS			3	10:40:09.39											199					
PANI	i	c	2	10:40:10.92			53,11	3							200					
GAGG			2	10:40:12.65			58,6	3							198					
RONC			2	10:40:12.78			59,61	3							200					
OZOL			3	10:40:16.78			68,23	3							199					
CARE			3	10:40:18.58											199					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

06/12/2016	11:02:11,33	46,1601	11,1881	7	1		0	0	0	90	0	0	C	0,02	2	CEMBRA LISIGN. (TN)	EXPL?			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e		2	11:02:14.41	16,6	137				113						0			0,9	
GAGG	e		2	11:02:14.92	19,7	244				110						0,02			0,9	
DOSS	e		2	11:02:16.79	31,1	180				103						0,01			1,1	

06/12/2016	12:57:52,04	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	i	c	1	13:13:45.04			46,1	1							27					

06/12/2016	12:57:52.81	,	,											0	RONC					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
RONC			1	12:57:52.81			53,51	1							27					

06/12/2016	15:48:52,91	46,1400	11,1858	3,56	1,2		0	0	0,4	90	0	0,4	C	0,1	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	1	15:48:55.63	15,2	131				103						0,05			1,3	
GAGG	i	c	2	15:48:56.04	18,7	250				101						-0,12			1,3	
DOSS	e	c	2	15:48:57.87	28,9	180				97						-0,02			1,2	
OZOL	e		2	15:48:58.33	31	341				97						0,07			1,2	
ZIAN	e	c	2	15:48:58.56	32,8	63				96						0			1,2	
VARA	e		2	15:49:00.24	41,5	213				95						0,21			0	
CARE	e		2	15:49:01.24	49,2	310				94						-0,1			0	

07/12/2016	05:29:28,76	,	,											10	GERMANY				M 2.3(G)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
OZOL			3	05:29:28.76			55,13	2							139							
ZIAN			3	05:29:29.26			57,01	2							142							
CARE			3	05:29:30.07			56,18	3							137							
PANI			3	05:29:32.73			63,48	3							140							
GAGG	i	c	3	05:29:35.03			64,64	2							136							
DOSS			3	05:29:38.13			69,13	2							136							
VARA			3	05:29:40.32			71,36	3							143							

07/12/2016	05:58:02.06	,	,											10	MACERATA			M 3.1(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			2	05:58:02.06			40,93	3							186					
VARA	e	c	1	05:58:02.10			41,41	3							190					
PANI			2	05:58:03.32			43,7	3							189					
ZIAN	e	c	2	05:58:05.15			45,74	3							191					
GAGG			3	05:58:05.34			46,73	3							187					
RONC			2	05:58:05.62			48,96	3							188					
OZOL			3	05:58:08.89			55,32	3							187					
CARE	i	c	2	05:58:11.57			58	3							186					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

07/12/2016	06:48:12,98	,	,											10	MAR ADRIATICO CENTR.	M 3.3(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS	i	d	1	06:48:12.98			51,37	2							205					
PANI	i	d	1	06:48:13.87			53,39	2							208					
VARA	i	d	1	06:48:14.18			53,57	2							211					
ZIAN	i	d	1	06:48:14.95			54,12	2							212					
GAGG	i	d	1	06:48:16.53			58,05	2							206					
RONC	e	d	1	06:48:17.51			59,37	2							210					
OZOL	e	d	1	06:48:19.26			63,62	2							206					
CARE	e	d	1	06:48:22.18			66,44	2							209					

07/12/2016	14:24:37,27	,	,											10	L'AQUILA	M 3.2(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	14:24:37.27			79,56	2							200					
DOSS			3	14:24:37.77			80,72	3							199					
PANI	i	c	2	14:24:38.62			81,52	3												
RONC			3	14:24:40.77			86,34	3							197					
GAGG			3	14:24:40.96			86,23	3							199					
ZIAN			3	14:24:40.99											203					
CARE	e	c	3	14:24:46.60			97,05	3							196					

08/12/2016	02:27:14,10	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	i	d	0	02:27:14.10			15,22	1							32					

08/12/2016	04:53:48,68	46,3415	11,6766	9,96	1		0	0	1,2	90	0	1,2	C	0,17	0	MOENA (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
ZIAN	e		1	04:53:51.37	11,4	230	53,34	2	131							0,11		0,07	0,6	
OZOL	e		2	04:53:57.24	48,6	278	63,49	2	102							0,09		-0,28	1	

08/12/2016	07:52:13,93	,	,											0	RONC					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
RONC	e	d	1	07:52:13.93			14,12	1							22					

08/12/2016	08:33:34,56	,	,											10	PERUGIA	M 3.4(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	08:33:34.56			74,6	3							229					
PANI	e	d	2	08:33:36.54			77,45	3							227					
RONC			2	08:33:38.29			82,24	3							227					
GAGG	e	d	3	08:33:38.36			81,56	3							227					
ZIAN	e	d	2	08:33:38.76			82,49	3							228					
OZOL	e	d	2	08:33:42.30			89,75	3							225					
CARE	i	d	2	08:33:44.52			91,65	3							226					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

08/12/2016	13:35:28,83	,	,											10	MACERATA				M 2.9(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS	e	c	2	13:35:28.83			62,97	2							182							
VARA	e	c	1	13:35:29.58			64,07	2							185							
PANI	i	c	1	13:35:30.00			64,37	2							184							
ZIAN	e	c	1	13:35:31.71			66,41	2							186							
GAGG	e	c	1	13:35:32.32			69,66	2							182							
OZOL	i	c	1	13:35:35.73			74,64	2							181							
CARE	i	c	1	13:35:38.25			79,1	3							181							

08/12/2016	14:39:20,23	46,0455	10,5156		7	1,2		0	0	0,9	90	0	0,9	C	0,18	0	VALDAONE (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
RONC	e		2	14:39:22.66	11	131	24,02	2	123							0,2		-0,18	1,7		
GAGG	e		2	14:39:26.35	34,5	83	30,77	2	101							0,09		-0,19	0		
CARE	e		2	14:39:28.06	44,4	18	33,6	2	99							0,14		-0,31	1,7		

08/12/2016	14:45:18,03	,	,											0	RONC					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
RONC	e	c	1	14:45:18.03			19,33	1							31					

08/12/2016	21:22:30,34	,	,											10	TERAMO				M 3.7(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS	e	c	2	21:22:30.34			71	3							254							
VARA	i	c	1	21:22:31.13			70,6	2							258							
PANI			2	21:22:31.77			73,04	3							256							
ZIAN	i	c	1	21:22:33.65			75,87	2							260							
GAGG	e	c	2	21:22:34.05			76,36	3							254							
RONC			2	21:22:34.32			77	2							256							
OZOL	e	c	2	21:22:37.47			82,71	2							253							
CARE	e	c	2	21:22:39.88			86,65	3							254							

09/12/2016	07:22:17,17	,	,												10	REGGIO EMILIA			M 4.0(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
VARA	e	c	2	07:22:17.17			40,05	2							288						
DOSS	e	c	2	07:22:18.52			42,04	2							285						
RONC	e	c	2	07:22:19.04			43,2	2							286						
PANI	e	c	2	07:22:21.15			47,45	3							286						
GAGG	e	c	2	07:22:21.31			49,52	3							288						
ZIAN	e	c	2	07:22:25.41			52,43	3							291						
CARE	e	c	2	07:22:26.06			54,17	3							283						
OZOL	e	c	2	07:22:26.29			52,76	3							285						

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

09/12/2016	00:10:55,26	,	,											10	MACERATA				M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			2	00:10:55.26			94,25	3								187						
VARA	e	c	2	00:10:55.87			94,19	2								185						
PANI	i	c	3	00:10:57.37												184						
RONC	e	c	2	00:10:59.08			101,5	3								184						
GAGG			3	00:10:59.14			101,8	3								186						
ZIAN			2	00:10:59.18			100,2	3								185						
OZOL	i	c	2	00:11:02.89			47,02	3								186						
CARE			3	00:11:04.83												187						

09/12/2016	00:20:10.83	,	,											0	RONC					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
RONC	i	d	2	00:20:10.83			12.62	2							33					

09/12/2016	03:32:48,05	,	,												10	RONC				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
RONC	e	c	1	03:32:48.05			49,91	2							34					

09/12/2016	07:15:21,93	,	,												10	MACERATA				M 3.6(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag			
VARA	e	c	2	07:15:21.93			59,92	2							238								
DOSS			3	07:15:22.77											234								
PANI			3	07:15:23.17			61,82	3							239								
GAGG			3	07:15:25.45											234								
ZIAN			3	07:15:25.72											239								
RONC			3	07:15:26.73			68,6	3							236								
OZOL			3	07:15:29.26			76,85	3							235								
CARE			3	07:15:30.22											234								

09/12/2016	13:26:56,32	46,5423	10,3610	6,22	1,5		0	0	0,6	90	0	0,6	B	0,11	0	GIOGO S. MARIA (SO)				M 1.2(S)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
CARE	i	c	2	13:27:01.47	29	117	5,05	2	102							0,08		-0,28	0		
OZOL	e		2	13:27:05.76	55,3	106			96							-0,07			1,4		
RONC	e		2	13:27:07.71	65,6	162			95							0,12			1,5		

10/12/2016	00:13:36,42	,	,											10	BOLOGNA				M 2.8(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	c	2	00:13:36.42			60,08	3							159							
DOSS	e	c	2	00:13:36.58			62,36	3							156							
RONC	e	c	2	00:13:39.23			66,2	3							157							
PANI			3	00:13:39.30			62,13	3							157							
GAGG			2	00:13:39.93			68,71	3							157							
ZIAN	e	c	2	00:13:42.47			67,04	2							159							
OZOL	e	c	2	00:13:44.76			73,46	3							156							
CARE	e	c	2	00:13:45.92			80,19	3							156							

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

11/12/2016	01:22:09,36	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE		1		01:22:09.36			9,58	1							28					

11/12/2016	07:18:52,82	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	07:18:52.82			53,3	2							33					

11/12/2016	12:55:45,54	,	,											10	MACERATA				M 4.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS	e	d	2	12:55:45.54			86,5	3							309							
VARA	e	d	1	12:55:46.45			85,8	2							310							
PANI	e	d	2	12:55:47.41			90,01	3							308							
ZIAN	i	d	1	12:55:49.63			93,87	3							310							
RONC	e	d	2	12:55:49.65			95,68	3							308							
GAGG	i	d	2	12:55:49.83			94,33	3							307							
OZOL	e	d	2	12:55:53.63			101,7	2							308							
CARE	i	d	2	12:55:55.55			103,9	3							309							

11/12/2016	21:54:24.64	,	,											10	FERRARA				M 2.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			3	21:54:24.64			44,39	2							138							
VARA			3	21:54:25.55			47,18	2							136							
PANI			3	21:54:26.85			48,28	3							135							
GAGG			3	21:54:29.14			52,23	2							136							
ZIAN			3	21:54:29.85			54,75	2							136							
RONC			3	21:54:31.66			53,53	3							135							
OZOL			3	21:54:33.31			60,54	3							134							
CARE			3	21:54:34.63			63,49	3							138							

12/12/2016	00:19:21,53	45,9050	11,5005	13,91	0,8		0	0	0,8	90	0	0,8	C	0,19	0	ASIAGO (VI)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
PANI	e		2	00:19:26.06	20,7	322	29,2	2	124							0,27		0,08	0,7		
DOSS	i	d	1	00:19:26.26	24,4	263	29,81	2	120							-0,07		-0,26	0,9		
ZIAN	e		2	00:19:29.22	41,6	7	34,42	2	109							0,2		-0,45	1		

12/12/2016	01:12:55,76	45,7388	10,9491	11,71	0,8		0	0	0,5	90	0	0,5	B	0,18	0	AVIO (TN)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
VARA	i	d	2	01:12:58.74	10,5	337	60,81	2	138							0,28		0,26	0		
DOSS	i	c	1	01:13:00.52	24,4	50	3,87	2	116							0,14		-0,12	0,9		
RONC	e		2	01:13:02.56	37	317	7,31	2	108							0,17		-0,25	0,9		
GAGG	e		2	01:13:02.83	38,3	1	7,68	2	107							0,22		-0,27	0		

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

12/12/2016	15:19:54,07	46,1378	11,1808	7,27	1,2		0	0	0,4	90	0	0,4	C	0,06	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	2	15:19:56.99	15,3	129				115						0,01			1	
GAGG	e	c	2	15:19:57.34	18,2	251				112						-0,09			1,1	
DOSS	e		2	15:19:59.17	28,7	179				104						0,04			1,1	
OZOL	e		2	15:19:59.64	31,1	341				103						0,1			1,1	
ZIAN	e		2	15:19:59.86	33,3	62				102						-0,04			1,1	
CARE	e		2	15:20:02.47	49	311				98						-0,08			1,7	

12/12/2016	17:10:35,67	,	,											10	PERUGIA	M 3.4(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	1	17:10:35.67			75,9	2							225					
DOSS	e	c	2	17:10:35.95			76,34	3							222					
PANI			2	17:10:37.70			78,26	3							223					
GAGG	e	c	2	17:10:38.92			82,64	3							223					
RONC	i	c	1	17:10:39.60			82,24	2							223					
ZIAN	e	c	2	17:10:39.99			83,01	2							226					
OZOL	e	c	2	17:10:43.49			90,27	3							222					
CARE	i	c	2	17:10:45.43			91,89	3							224					

12/12/2016	21:58:27,43	46,4818	11,5140	18,89	0,6		0	0	1,2	90	0	1,2	B	0,14	0	NOVA LEVANTE (BZ)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
ZIAN	e		2	21:58:32.67	23,2	171	36,42	2	129							0,14		-0,1	0,6		
OZOL	e		2	21:58:34.66	36,6	256	39,65	2	117							0,2		-0,3	0		

12/12/2016	22:53:53,10	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	22:53:53.10			53,35	1							25					

13/12/2016	01:46:13,54	,	,											10	FRANCE	M 3.1(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
RONC			3	01:46:13.54			56,44	2							183					
VARA			3	01:46:15.66			60,05	3							187					
CARE			3	01:46:16.02			61,3	3							183					
GAGG			3	01:46:17.20			63,63	3							184					
DOSS			3	01:46:19.16			65,27	3							185					
OZOL			3	01:46:19.49			68,5	3							183					
PANI			3	01:46:20.27			68,29	3							184					
ZIAN			3	01:46:22.52			73,69	3							187					

13/12/2016	02:02:39,55	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	i	c	1	02:02:39.55			40,69	3							29					

13/12/2016	06:07:56,37	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	d	1	06:07:56.37			57,76	2							30					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

13/12/2016	12:13:25,28	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	0	12:13:25.28			25,71	2							28					

13/12/2016	14:18:13,96	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	14:18:13.96			14,43	1							25					

13/12/2016	21:48:52,09	,	,											10	MACERATA				M 3.5(l)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	c	1	21:48:52.09			89,66	2							230							
DOSS			3	21:48:52.12			90,19	3							227							
PANI			2	21:48:53.34			92,81	3							227							
ZIAN			2	21:48:55.44			95,89	3							231							
GAGG			3	21:48:55.47			97,35	3							227							
RONC	e	c	2	21:48:55.56			98,84	3							228							
OZOL	e	c	1	21:48:59.10			104,2	2							227							
CARE			3	21:49:01.88			45,46	3							225							

14/12/2016	03:54:57,35	,	,											10	RIETI				M 3.8(l)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS	e	d	2	03:54:57.35			102,8	3							291							
VARA	e	d	1	03:54:57.89			100,9	3							293							
PANI	e	d	2	03:54:58.90			104,1	3							291							
ZIAN	e	d	1	03:55:01.09			47,93	3							293							
RONC	e	d	2	03:55:01.16			47,79	3							292							
GAGG			2	03:55:01.29			46,32	3							290							
OZOL	e	d	1	03:55:04.75			55,81	3							290							
CARE	i	d	1	03:55:07.34			56,65	3							288							

14/12/2016	13:38:23,64	,	,											10	MACERATA				M 3.4(l)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			3	13:38:23.64			60,84	3														
VARA	e	c	2	13:38:23.91			61,32	2														
PANI			2	13:38:24.94			64,25	3														
GAGG			3	13:38:27.05			67,79	3														
ZIAN			3	13:38:27.40																		
RONC	i	c	2	13:38:27.41			69,2	3														
CARE			3	13:38:32.45			78,55	3														

14/12/2016	13:41:24,37	,	,											10	MACERATA				M 3.7(l)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			2	13:41:24.37			61,66	3							252							
VARA	i	c	1	13:41:24.84			62,17	2							252							
PANI	i	c	1	13:41:25.87			64,06	2							250							
GAGG			2	13:41:28.28			68,69	3							250							
RONC	i	c	2	13:41:28.32			70,65	3							250							
ZIAN			2	13:41:28.47			67,64	3							251							
OZOL	e	c	2	13:41:31.86			76,15	3							250							
CARE	i	c	2	13:41:34.29			79,43	3							252							



# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

14/12/2016	14:25:44.66	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	i	d	0	14:25:44.66			45,56	0							27					

14/12/2016	15:43:02,31	46,1275	11,1915		5,67	1,3		0	0	0,4	90	0	0,4	C	0,11	2	FORNACE (TN)				EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
PANI	i	c	1	15:43:04.88	14	128				112						-0,02			1,4			
GAGG	e	c	2	15:43:05.58	18,7	255				107						-0,08			1,3			
DOSS	i	c	1	15:43:07.12	27,5	180				102						-0,01			1,3			
ZIAN	e		2	15:43:08.05	33,1	60				100						-0,02			1,1			
OZOL	e		2	15:43:08.08	32,5	341				100						0,12			0			
VARA	e		2	15:43:09.43	40,6	214				98						0,1			1,4			
CARE	e	c	2	15:43:10.89	50,4	311				96						-0,11			0			

14/12/2016	16:09:48,10	,	,												10					
<b>st_name</b>	<b>p_rem</b>	<b>m</b>	<b>w_p</b>	<b>time_s</b>	<b>dist</b>	<b>azm</b>	<b>s_sec</b>	<b>w_s</b>	<b>ain</b>	<b>mx_amp</b>	<b>per</b>	<b>p_calc</b>	<b>p_std</b>	<b>cf</b>	<b>f_p_time</b>	<b>p_res</b>	<b>s_std</b>	<b>s_res</b>	<b>xmag</b>	<b>fmag</b>
DOSS			3	16:09:48.10			86,94	3							201					
VARA	e	c	2	16:09:48.81			85,9	2							201					
PANI			2	16:09:50.09			89,58	3							197					
RONC			3	16:09:52.19			93,74	3							199					
ZIAN			3	16:09:52.25											201					
OZOL			2	16:09:55.82			100,5	3							199					
CARE			3	16:09:58.15			103,7	3							196					

15/12/2016	00:25:33,43	46,7650	10,6255	8,18	1,6		0	0	0,6	90	0	0,6	C	0,19	0	CIMA DEI CORVI (BZ)			M 2.1(O)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e		2	00:25:40.18	38,2	172	45,25	2	102							0,07		-0,08	1,2	
OZOL	e		2	00:25:42.45	51,8	141	49,09	3	99							0,06		-0,28	1,4	
RONC	e		3	00:25:48.40	87,2	180			95							0,01			1,8	
ZIAN	e		2	00:25:49.06	90,2	127			95							0,16			1,5	

15/12/2016	00:32:00,72	,	,											10	L'AQUILA				M 3.2(I)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	00:32:00.72			43,86	2							211					
DOSS			3	00:32:00.84			43,75	3							213					
PANI	e	c	2	00:32:02.28			44,98	3							209					
RONC			3	00:32:04.11			49,73	3							209					
GAGG			3	00:32:04.30			49,54	3							211					
ZIAN	i	c	2	00:32:04.30			48,59	3							215					
OZOL	i	c	2	00:32:07.93			56,38	3							209					
CARE	e	c	3	00:32:09.65			59,48	3							211					

15/12/2016	05:49:17,91	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	d	1	05:49:17.91			18,04	1							28					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

15/12/2016	11:15:49,05	46,1338	11,1855	0,21	1		0	0	0,2	90	0	0,2	C	0,02	2	ALBIANO (TN)	EXPL?			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	2	11:15:51.59	14,8	129				91						0,01			0,8	
GAGG	e	c	2	11:15:52.17	18,4	252				91						-0,03			0,9	
DOSS	e		2	11:15:53.92	28,2	179				90						0,04			1	
ZIAN	i	c	1	11:15:54.70	33,2	62				90						-0,02			0,9	

15/12/2016	11:20:23,15	46,3825	11,3285	8,76	1,2		0	0	0,5	90	0	0,5	B	0,08	0	NOVA PONENTE (BZ)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
OZOL	e		2	11:20:27.15	21,4	276	30,33	2	112							0,04		0,13	1		
ZIAN	i	c	1	11:20:27.15	21,6	123	30,25	2	112							0,01		0,01	1,4		
CARE	e		2	11:20:31.81	48,8	276	38,03	3	100							0,19		-0,2	0		
DOSS	e		2	11:20:32.93	56,9	191			99							-0,06			1,6		

15/12/2016	11:24:17,66	46,1386	11,1791	0,8	1,4		0	0	0,5	90	0	0,5	C	0,1	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	2	11:24:20.22	15,5	129				93						-0,09			1,3	
GAGG	e	c	1	11:24:20.73	18,1	250				93						-0,03			1,2	
DOSS	e	c	2	11:24:22.42	28,8	179				92						-0,16			1,2	
OZOL	e		2	11:24:23.03	31	342				91						0,07			1,1	
VARA	e		2	11:24:24.77	41,1	212				91						0,09			1,7	
CARE	e		2	11:24:26.04	48,9	311				91						0,03			0	

15/12/2016	15:13:26,20	46,1365	11,1919	4,99	1,3		0	0	0,6	90	0	0,6	C	0,16	2	ALBIANO (TN)			EXPL? M 1.6(O)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
PANI	i	c	1	15:13:28.79	14,6	131				109						-0,04			1,1		
GAGG	i	c	2	15:13:29.56	19	252				105						0,01			1,2		
DOSS	i	c	1	15:13:31.06	28,5	180				100						-0,09			0		
OZOL	e		2	15:13:31.21	31,6	340				99						-0,45			1,2		
ZIAN	e	c	2	15:13:31.91	32,6	62				99						0,08			1,2		
VARA	i	c	1	15:13:33.47	41,4	214				97						0,14			0		
RONC	e		2	15:13:34.55	47,3	249				96						0,22			1,2		
CARE	e		2	15:13:34.88	49,8	310				96						0,13			0		

15/12/2016	16:04:20,99	46,1321	11,1910	4,79	1		0	0	0,1	90	0	0,1	B	0,01	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	2	16:04:23.57	14,3	129				108						0			0,9	
GAGG	e	d	2	16:04:24.29	18,8	253				104						-0,01			1	
DOSS	e		2	16:04:25.83	28	180				100						-0,02			1	
ZIAN	e		2	16:04:26.67	32,9	61				98						0			0,9	

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

17/12/2016	01:34:49,88	,	,											10	MACERATA			M 3.4(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			3	01:34:49.88			89,8	3							217					
VARA	e	d	2	01:34:50.13			88,24	3							220					
PANI			3	01:34:51.81			90,71	3							216					
ZIAN	i	d	2	01:34:53.53			97,08	3							221					
RONC			2	01:34:53.61			99,93	3							218					
GAGG			3	01:34:54.58											216					
OZOL	e	d	3	01:34:57.03			103,3	3							215					
CARE			3	01:34:59.60			105,2	3							218					

17/12/2016	22:58:05,55	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	0	22:58:05.55			5,91	1							25					

17/12/2016	23:55:05,27	,	,											10	MACERATA			M 3.4(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			3	23:55:05.27											217					
VARA	e	c	2	23:55:05.74			44,02	3							223					
PANI	e	c	3	23:55:06.48			46,52	3							218					
ZIAN	i	c	2	23:55:08.73			49,27	3							224					
GAGG			3	23:55:09.32			50,97	3							216					
RONC			3	23:55:09.57			53	3							220					
OZOL	e	c	2	23:55:12.84			57,98	3							215					
CARE	i	c	2	23:55:14.94			60,45	3							216					

18/12/2016	00:45:47,34	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE			2	00:45:47.34			47,97	1							29					

18/12/2016	01:16:59,37	,	,											0	CARE	DOUBLE EVENT				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	01:16:59.37			60,08	2												

18/12/2016	02:01:43,46	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE			2	02:01:43.46			43,77	1							25					

18/12/2016	03:40:27,65	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE			1	03:40:27.65			28,45	1							28					

18/12/2016	15:17:41,66	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	0	15:17:41.66			42,89	1							30					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

18/12/2016	18:17:52,57	,	,											10	MACERATA			M 3.2(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			2	18:17:52.57			92,13	3							226					
DOSS			3	18:17:53.18											219					
PANI			3	18:17:53.52			92,74	3							222					
ZIAN			3	18:17:55.21			97,75	3							225					
GAGG			3	18:17:56.40											219					
RONC			2	18:17:56.90			99,72	3							222					
OZOL	i	c	2	18:17:59.71			105,8	3							218					
CARE			3	18:18:01.55											216					

18/12/2016	21:36:04,16	,	,											10	MACERATA			M 3.1(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			3	21:36:04.16																
VARA	i	d	2	21:36:04.75			43,43	3												
PANI	i	d	3	21:36:05.89																
ZIAN			3	21:36:07.71			48,38	3												
GAGG			3	21:36:08.29			50,61	3												
RONC			3	21:36:08.59			51,79	3												
OZOL	i	d	2	21:36:11.69			56,4	3												
CARE	e	d	3	21:36:13.65			61,14	3												

18/12/2016	23:52:36,67	46,4665	10,6806	5,77	1,1		0	0	0,7	90	0	0,7	B	0,18	0	PEJO (TN)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
CARE	i	d	1	23:52:38.06	4,8	165	38,96	1	140							0,1		0	0		
OZOL	e		2	23:52:41.98	29,4	104	45,63	2	101							0,19		-0,15	1		
GAGG	e		2	23:52:45.03	47,7	153			97							0,15			1,2		
RONC	e		2	23:52:46.09	54,2	185			96							0,11			1		

19/12/2016	07:53:47,83	,	,											10	PRAGELPASS [CH]	M 2.4(S)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE			3	07:53:47.83			69,83	2							135					
RONC			3	07:53:50.44			72,2	2							130					
GAGG			3	07:53:52.72			77,68	3							131					
DOSS			3	07:53:57.55											131					

19/12/2016	10:41:49,75	,	,											10	PERUGIA	M 3.3(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	10:41:49.75			89,9	3							220					
DOSS	e	c	2	10:41:49.85			89,86	3							218					
PANI			3	10:41:51.79			93,1	3							218					
RONC			3	10:41:52.97			97,09	3							218					
ZIAN			3	10:41:53.54											222					
GAGG			3	10:41:53.58			97,19	3							217					
OZOL	i	c	2	10:41:57.13			104,8	3							218					
CARE			3	10:41:59.27			106,6	3							214					

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

19/12/2016	11:11:27,58	46,1851	11,2031	7,22	1		0	0	0,2	90	0	0,2	B	0,05	2	CEMBRA LISIGN. (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e	c	2	11:11:30.89	18,1	146				112						-0,02			1	
GAGG	e	c	2	11:11:31.52	22	239				108						-0,02			1,2	
OZOL	e		2	11:11:32.33	26,9	334				105						-0,02			0,8	
ZIAN	i	c	1	11:11:32.81	29,6	70				104						0,03			1	
DOSS	e		2	11:11:33.49	33,9	182				102						-0,02			0	
CARE	e		2	11:11:35.74	47,2	304				99						0			0	
VARA	e		2	11:11:35.75	46,5	211				99						0,13			0	

19/12/2016	16:28:28,46	46,1378	11,1810	4,47	1,1		0	0	0,2	90	0	0,2	C	0,01	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e		2	16:28:31.17	15,3	129				106						-0,02			1,1	
GAGG	e	c	2	16:28:31.68	18,2	251				104						0,01			1,2	
ZIAN	e		2	16:28:34.19	33,3	62				98						-0,01			1	

19/12/2016	17:18:26,22	45,8211	11,1176	11,81	0,7		0	0	1	90	0	1	C	0,12	0	VALLARSA (TN)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
DOSS	i	c	1	17:18:28.71	8,6	40	30,79	2	144							0		0,13	0,7		
VARA	e		2	17:18:29.88	17,2	272	32,39	2	124							0,09		-0,18	0		
PANI	e		2	17:18:31.90	30,6	33	35,93	2	111							0,08		-0,26	0		
GAGG	e		2	17:18:32.13	31,7	337				110						0,14			0		

19/12/2016	19:28:59,56	,	,											0	VARA					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	19:28:59.56			61,57	1							27					

20/12/2016	12:52:25,94	45,7706	11,0531	7,86	1		0	0	0,4	90	0	0,4	C	0,03	0	ALA (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e		1	12:52:28.60	13,6	297	30,77	2	120							-0,03		0,04	0	
DOSS	i	c	2	12:52:29.04	16,1	41	31,37	2	116							0,04		-0,02	1	

20/12/2016	14:16:30,55	,	,											10	FIRENZE	M 2.8(l)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	14:16:30.55			57,22	3							177					
DOSS			3	14:16:30.86			57,36	3							175					
RONC			3	14:16:33.19			63,62	3							176					
GAGG			3	14:16:33.88			64,5	3							177					
OZOL			2	14:16:39.03			72,8	3							174					
CARE			3	14:16:39.74			72,85	3							174					

20/12/2016	18:02:17,34	46,5671	10,5935	5,77	0,8		0	0	0,7	90	0	0,7	B	0,11	0	CIMA VERTANA (BZ)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
CARE	i	d	1	18:02:20.62	17,7	153	23,06	2	108							0,09		0,04	0		
OZOL	e		2	18:02:24.22	39,6	117	29,34	2	98							0,04		-0,18	0		

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

21/12/2016	01:17:21,99	46,3596	10,8508	9,57	0,8		0	0	0,5	90	0	0,5	B	0,15	0	RABBI (TN)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
CARE	i	d	1	01:17:25.03	13,8	301	27,03	2	125							0,17		-0,07	0		
OZOL	i	c	1	01:17:25.22	16,2	73	27,83	2	121							0,02		0,12	0,8		
GAGG	e		2	01:17:27.81	31,8	165	32,1	2	107							0,15		0,01	0		
RONC	e	d	2	01:17:29.90	45,6	203	36,09	2	102							-0,06		-0,09	0		

21/12/2016	11:05:08,39	46,1433	11,1801	2,06	1,3		0	0	0,1	90	0	0,1	B	0,01	2	ALBIANO (TN)			EXPL?		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
PANI	i	c	2	11:05:11.11	15,8	131				97						0			1,2		
GAGG	e	c	2	11:05:11.54	18,4	249				96						-0,01			1,3		
DOSS	e		3	11:05:13.46	29,3	179				94						0,05			1,3		
OZOL	e		2	11:05:13.65	30,6	341				94						0,02			1,2		
ZIAN	e	c	2	11:05:14.05	33,1	63				94						-0,01			1,1		
VARA	e		2	11:05:15.49	41,6	212				93						-0,02			0		
CARE	e		2	11:05:16.71	48,6	310				92						0			0		

21/12/2016	11:21:42,58	46,5203	10,3803	6,93	1,2		0	0	0,5	90	0	0,5	B	0,08	0	GIOGO S. MARIA (SO)							
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag			
CARE	e		2	11:21:47.44	26,6	114	50,88	2	105							0,17		-0,06	1,5				

21/12/2016	16:52:27,76	,	,												10	PERUGIA	M 3.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	16:52:27.76			68,79	3							218					
DOSS	i	c	2	16:52:28.35											215					
PANI	i	c	2	16:52:29.84			72,69	3							214					
GAGG	i	c	2	16:52:31.54			76,12	3							214					
RONC			2	16:52:31.60			77,32	3							215					
ZIAN	i	c	2	16:52:32.25			76,11	3							221					
OZOL	i	c	2	16:52:35.70			84,73	3							213					
CARE	e	c	3	16:52:36.75			85,66	3							216					

21/12/2016	19:19:31,60	45,7630	11,0883	10,55	2		0	0	0,4	90	0	0,4	B	0,18	0	ALA (TN)			M 2.5(O)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS	i	c	1	19:19:35.08	15,2	31	37,41	2	125							0,32		0,18	2,3	
VARA	i	d	1	19:19:35.16	16,5	295	37,66	2	123							0,21		0,1	1,6	
GAGG	i	d	1	19:19:38.35	37	344	43,08	3	106							0,17		-0,24	1,8	
PANI	i	d	1	19:19:38.43	37,3	31	43,16	2	106							0,2		-0,23	2	
RONC	e		2	19:19:39.10	43,5	304	44,92	2	104							-0,16		-0,3	1,8	
ZIAN	e		2	19:19:43.38	67,9	33			99							0,03			1,9	
OZOL	e		2	19:19:43.92	71,2	358			98							0,01			1,8	
CARE	e		2	19:19:45.31	79,5	338			98							0			2,2	

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

22/12/2016	01:34:59,52	,	,											10	ROVIGO	M 3.0(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	d	1	01:34:59.52			72,53	2							203					
DOSS	i	d	1	01:34:59.66			72,86	2							200					
PANI	i	d	1	01:35:02.63			17,52	2							200					
RONC	i	d	1	01:35:03.36			19,24	2							200					
GAGG	e	d	1	01:35:03.72			20,24	2							202					
ZIAN	i	d	1	01:35:06.74			24,16	2							207					
OZOL	e	d	1	01:35:09.00			28,69	2							201					
CARE			2	01:35:10.41			30,9	2							202					

22/12/2016	06:00:24,88	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	06:00:24.88			25,18	2							25					

22/12/2016	08:44:18,28	,	,											10	UCCEA (UD)			M 3.0(O)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
ZIAN	e	d	2	08:44:18.28			35,51	3							147					
PANI	e	d	2	08:44:20.54			39,86	2							142					
DOSS	e	d	2	08:44:22.91			43,43	2							142					
OZOL	e	d	1	08:44:23.49			45,99	2							142					
GAGG			3	08:44:24.37			47,35	2							142					
VARA			3	08:44:25.97			50,86	3							144					
CARE			2	08:44:27.23			52,11	3							141					
RONC			2	08:44:29.10			54,74	2							142					

22/12/2016	10:59:00,12	45,7621	11,0890	11,16	1,8		0	0	0,4	90	0	0,4	B	0,2	0	ALA (TN)			M 2.2(O)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS	i	c	1	10:59:03.66	15,2	31	6	2	126							0,31		0,14	2,2	
VARA	i	d	1	10:59:03.76	16,6	295	6,3	2	124							0,22		0,1	1,6	
GAGG	i	d	2	10:59:06.94	37,1	344	11,67	2	107							0,19		-0,24	1,7	
PANI	i	c	1	10:59:06.96	37,3	31	11,67	2	107							0,18		-0,3	1,9	
RONC	e		2	10:59:07.78	43,6	304			104							-0,03			1,7	
ZIAN	e		2	10:59:11.93	67,9	33			99							0,04			1,8	
OZOL	e		2	10:59:12.64	71,3	358			99							0,18			1,7	
CARE	e		2	10:59:13.95	79,6	338			98							0,09			2,2	

22/12/2016	15:28:48,13	46,1271	11,2208	4,8	1,2		0	0	0,9	90	0	0,9	C	0,13	2	BASELGA DI P. (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	2	15:28:50.36	12,2	134			111							-0,01			1,1	
GAGG	i	c	2	15:28:51.62	20,8	257			103							-0,16			1,4	
ZIAN	e		2	15:28:53.54	31,2	58			99							0,02			1	
OZOL	e		2	15:28:54.10	33,4	337			98							0,21			1,1	
VARA	e		2	15:28:55.55	41,9	217			97							0,22			0	
CARE	e	c	2	15:28:56.92	52,2	309			95							-0,16			0	

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

22/12/2016	19:51:06,39	,	,												10	MONTREUX [F]			M 3.4(S)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
RONC		3		19:51:06.39			43,92	3								223					
CARE		3		19:51:06.87			42,57	3								227					
GAGG		3		19:51:09.75			49,08	3								221					
VARA		3		19:51:09.88			45,31	3								224					
OZOL		3		19:51:10.41			51,63	3								221					
PANI		3		19:51:12.34			53,6	3								222					
DOSS		3		19:51:12.36												223					

23/12/2016	01:30:14,13	45,7575	11,0908	8,77	0,7		0	0	0,5	90	0	0,5	B	0,08	0	ALA (TN)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
DOSS	e	2		01:30:17.27	15,6	29	19,57	2	119							0,08		0	0,7		
VARA	e	2		01:30:17.53	16,9	297	19,87	2	117							0,14		-0,06	0		
GAGG	e	2		01:30:20.57	37,7	344	25,84	2	103							-0,17		-0,05	0		

23/12/2016	16:43:01,27	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	0	16:43:01.27			2,15	1							32					

23/12/2016	17:42:33,28	,	,												10	L'AQUILA	M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	c	2	17:42:33.28			76,01	2							186					
DOSS			3	17:42:33.36			75,44	3							185					
PANI			3	17:42:34.87			78,73	3							185					
GAGG			3	17:42:36.49			82,24	3							185					
RONC	e	c	2	17:42:36.52			82,89	3							184					
ZIAN	i	c	1	17:42:37.06			81,7	3							186					
OZOL	i	c	1	17:42:40.61			89,78	3							187					

24/12/2016	12:39:20,14	46,1246	11,7763	11,4	0,6		0	0	0,9	90	0	0,9	B	0,13	0	IMER (TN)							
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag			
ZIAN	e	d	1	12:39:24.81	23,6	316	27,88	2	116							0,19		-0,23	0				

24/12/2016	19:41:30,05	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	d	1	19:41:30.05			30,98	1							29					

25/12/2016	19:39:13,56	46,3496	12,1131	6,69	0,9		0	0	0,5	90	0	0,5	B	0,16	0	FORNO DI ZOLDO (BL)				M 1.1(O)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
ZIAN	e	2		19:39:21.17	43,1	259	26,63	2	99							0,15		-0,21	1,1		

26/12/2016	04:59:39,15	46,0014	10,7428	8,47	1,1		0	0	0,7	90	0	0,7	B	0,08	0	BOLBENO (TN)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
RONC	i	c	1	04:59:41.33	9,6	256	43,04	2	131							-0,02		-0,01	0,7		
GAGG	e	c	2	04:59:42.65	19	61	45,56	2	114							-0,08		0,06	1		



# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

26/12/2016	06:15:16,39	,	,											10						
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
RONC	i	d	2	06:15:16.39			22,51	2							87					
GAGG			2	06:15:21.09			30,57	2							86					
CARE			3	06:15:22.05			32,09	3							87					

26/12/2016	13:44:56,91	,	,											10	MACERATA	M 3.2(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	13:44:56.91			95,97	3							207					
PANI			3	13:44:57.93			97,66	3							206					
DOSS			3	13:44:58.01			94,06	3							203					
ZIAN			3	13:45:00.27			40,21	3							208					
GAGG			3	13:45:00.59			41,26	3							204					
RONC			3	13:45:00.88			43,55	3							206					
OZOL			3	13:45:03.70			49,56	3							205					
CARE			3	13:45:06.11			51,77	3							204					

26/12/2016	14:36:14.63	,	,											10						
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
RONC	i	c	1	14:36:14.63			20,59	1							88					
VARA			3	14:36:17.82			27,61	3							88					
GAGG			2	14:36:19.20			28,61	2							90					
OZOL			2	14:36:23.01			35,35	2							88					

26/12/2016	14:51:54,26	45,8620	10,1286	15,23	1,8		0	0	1,7	90	0	1,7	C	0,18	0	DARFO-BOARIO T. (BS)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
RONC	e		2	14:52:01.82	40,5	71	7,29	3	111							0,15		-0,15	1,8		
GAGG	i	c	2	14:52:06.65	68,9	69			102							0,33			0		
CARE	e		2	14:52:07.58	76,4	35			101							0			0		
OZOL	e		2	14:52:10.38	93,3	50			99							-0,04			1,9		

26/12/2016	19:27:38,58	,	,											10	MACERATA				M 3.5(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS			3	19:57:38.58			78,16	3							228							
VARA	i	c	2	19:57:39.09			79,05	3							235							
PANI	i	c	3	19:57:39.97											232							
ZIAN	e	c	2	19:57:41.54			84,19	3							236							
GAGG			3	19:57:42.07			84,12	3							228							
RONC			3	19:57:42.50			84,52	3							234							
OZOL	e	c	2	19:57:45.46			91,89	3							228							
CARE	i	c	2	19:57:47.75			95,03	3							230							

27/12/2016	02:32:32,04	45,3633	11,7039	11,94	1,4		0	0	2,9	90	0	2,9	D	0,15	0	ABANO TERME (PD)		M 1.6(O)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS	e		2	02:32:44.15	70,1	325				100						-0,04			1,9	
VARA	e		2	02:32:45.80	81,3	309				98						-0,28			0	

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS						RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q			

27/12/2016	07:41:31,89	46,7120	10,1883	5,68	1,7		0	0	0,3	90	0	0,3	B	0,05	0	VAL MUSTAIR [CH]					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
CARE	e		2	07:41:40.71	50,5	129	47,41	3	96							0,14		0,07	1,9		

27/12/2016	10:38:49,53	,	,											0	RONC							
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
RONC			2	10:38:49.53			51,85	2							31							

27/12/2016	19:05:43,96	45,8308	11,0219	10,29	0,6		0	0	0,3	90	0	0,3	C	0,03	0	ROVERETO (TN)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
VARA	e		2	19:05:46.36	9,8	267	48,3	2	137							-0,03		0,02	0,7		
DOSS	e	c	2	19:05:46.98	14,1	67	49,24	2	126							0,04		-0,03	0,8		

28/12/2016	04:37:50,30	,	,											10	FICAROLO (RO)			M 2.3(O)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	1	04:37:50.30			64,64	3							119					
DOSS			2	04:37:50.67			64,68	3							116					
RONC	i	d	2	04:37:54.15			71,7	2							117					
GAGG			2	04:37:54.28			71,74	2							118					
ZIAN			2	04:37:56.69			75,74	2							120					
OZOL			3	04:37:59.73			81,04	3							118					

28/12/2016	11:10:37,82	45,8590	10,9933	15,1	1,3		0	0	0,6	90	0	0,6	C	0,19	0	MORI (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	c	2	11:10:41.03	8,4	244	43,31	2	151							0,26		0,24	0	
DOSS	i	c	1	11:10:41.50	15,4	81	44,13	2	135							0		-0,24	1	
GAGG	e	d	1	11:10:42.90	25,1	354	46,56	2	121							0,08		-0,17	1,3	
RONC	e		2	11:10:44.01	31,8	295	48,64	2	115							0,18		0,12	1,3	
OZOL	e		2	11:10:48.54	60,7	4			104							0,03			1,4	
ZIAN	e		2	11:10:48.90	64	44			103							-0,16			1,5	
CARE	e		2	11:10:49.67	66,9	340			103							0,13			0	

30/12/2016	18:12:37,53	46,4443	10,0236	8,08	2,2		0	0	0,6	90	0	0,6	B	0,19	0	FORCA LIVIGNO (SO)	M 2.4(O)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	i	d	2	18:12:46.44	51,8	92				99						-0,05			0	
RONC	e		2	18:12:49.51	69,2	138				97						0,07			2,2	
OZOL	e		2	18:12:51.29	79,2	93				96						0,16			2,2	
GAGG	e		2	18:12:51.64	82,5	119				96						-0,06			2,4	
VARA	e		2	18:12:54.08	96,3	136				95						0,03			0	

30/12/2016	19:18:55,47	46,4468	10,8766	1,29	0,8		0	0	0,7	90	0	0,7	C	0,05	0	BRESIMO (TN)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
CARE	i	c	1	19:18:57.88	14	260	59,71	2	95							0		-0,04	0		
OZOL	e		2	19:18:58.02	14,3	110	59,78	2	95							0,09		-0,06	0,8		

# QUATERLY BULLETTIN *October-December 2016*

DATE	TIME	Geogr. Coord.		DEPTH	Magnitude		LOCATION ERRORS							RMS	TYPE	EPICENTRAL AREA	NOTES
DD-MM-YY	HH/MM/SS	LAT N	LON E	h (Km)	MA	MD	az1	dp1	se1	az2	dp2	se2	q				

31/12/2016	08:39:31,71	45,7551	11,1080	9,72	1,1		0	0	0,6	90	0	0,6	B	0,1	0	VALLARSA (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS	e		2	08:39:34.88	15,2	24	37,3	2	123							0,08		0,09	0,8	
VARA	e		2	08:39:35.35	18,2	296	38,04	2	118							0,11		0,04	1,6	

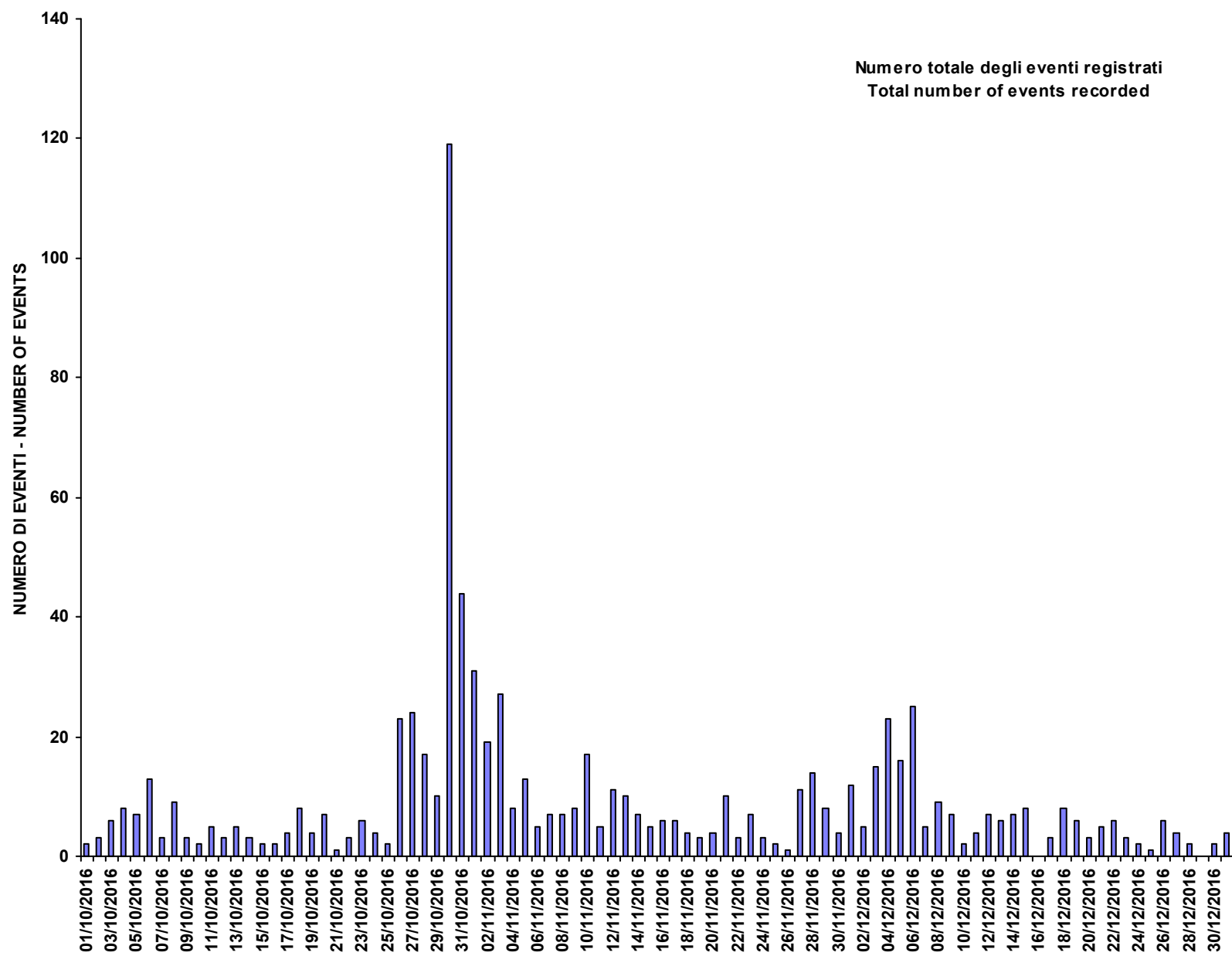
31/12/2016	12:10:12,69	46,6238	11,6988	19,57	1,6		0	0	2,5	90	0	2,5	D	0,19	0	FUNES (BZ)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
ZIAN	e		2	12:10:20.57	40	195	26,04	2	116							0,26		-0,21	1	
CARE	e		2	12:10:26.49	80	254			59							-0,09			2,2	

31/12/2016	18:01:17,61	,	,											10	C. MARCHIG. PESARESE	M 2.7(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS		3		18:01:17.61			43,35	3							167					
VARA		2		18:01:18.04			43,62	2							173					
PANI		2		18:01:18.66			44,41	2							171					
ZIAN		2		18:01:20.73			47,74	3							175					
GAGG		3		18:01:21.33			49,36	3							169					
RONC		3		18:01:21.41			49,32	3							172					
OZOL		3		18:01:24.53			54,69	3							168					
CARE		3		18:01:27.25			59,04	3							166					

31/12/2016	21:55:13,72	,	,												10	BOLOGNA				M 2.0(I)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
VARA		2		21:55:13.72			29,84	2							112						
DOSS		2		21:55:13.73			29,54	2							114						
PANI		2		21:55:16.36			34,73	2							110						
RONC		2		21:55:17.81			36,22	2							111						
GAGG		3		21:55:17.88			36,44	2							113						
ZIAN		3		21:55:20.34			40,88	3							113						
OZOL		3		21:55:23.79			45,62	3							110						

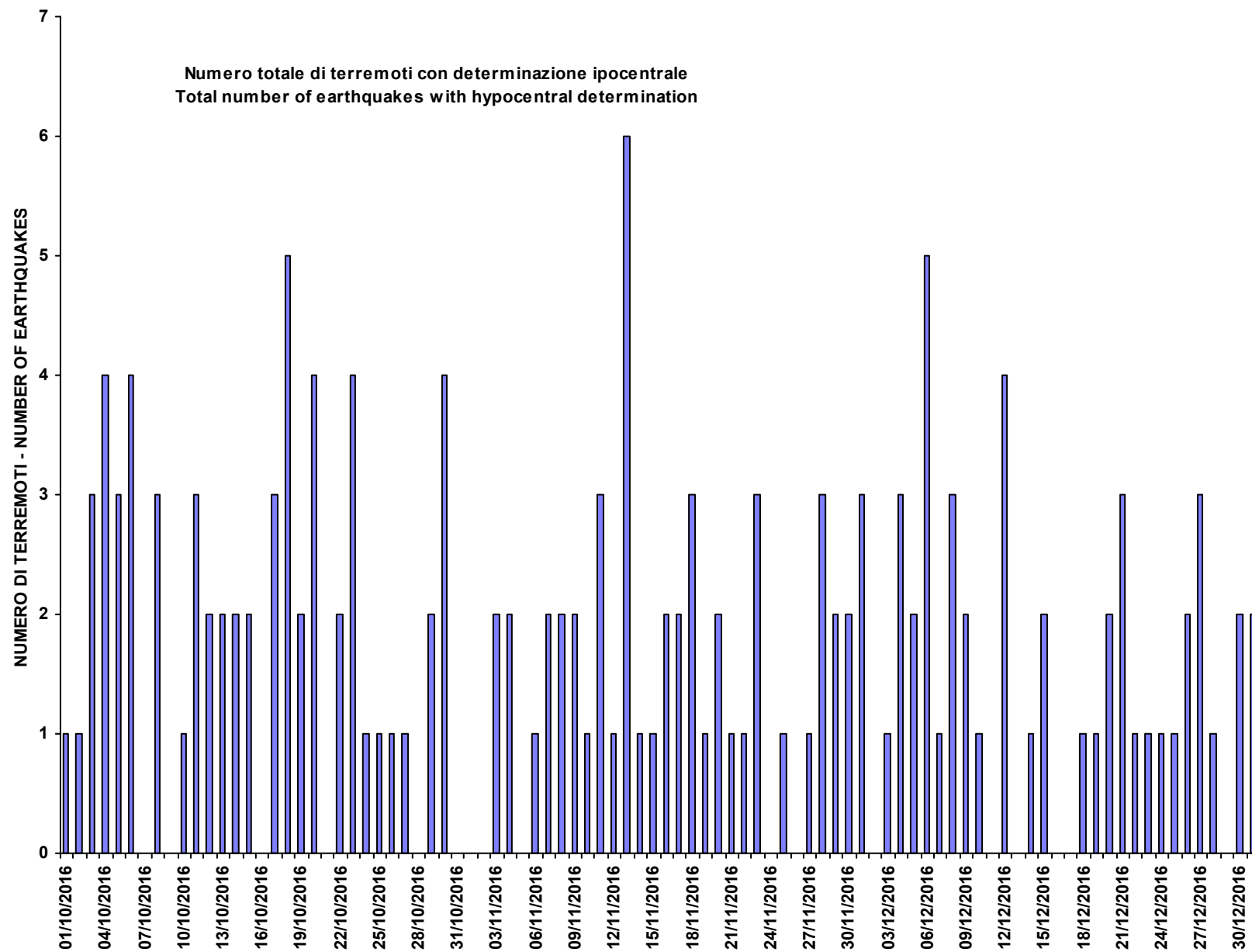
RETE SISMICA DEL TRENTINO ; PERIODO : OTTOBRE - DICEMBRE 2016

TRENTINO SEISMOMETRIC NETWORK ; PERIOD : OCTOBER - DECEMBER 2016



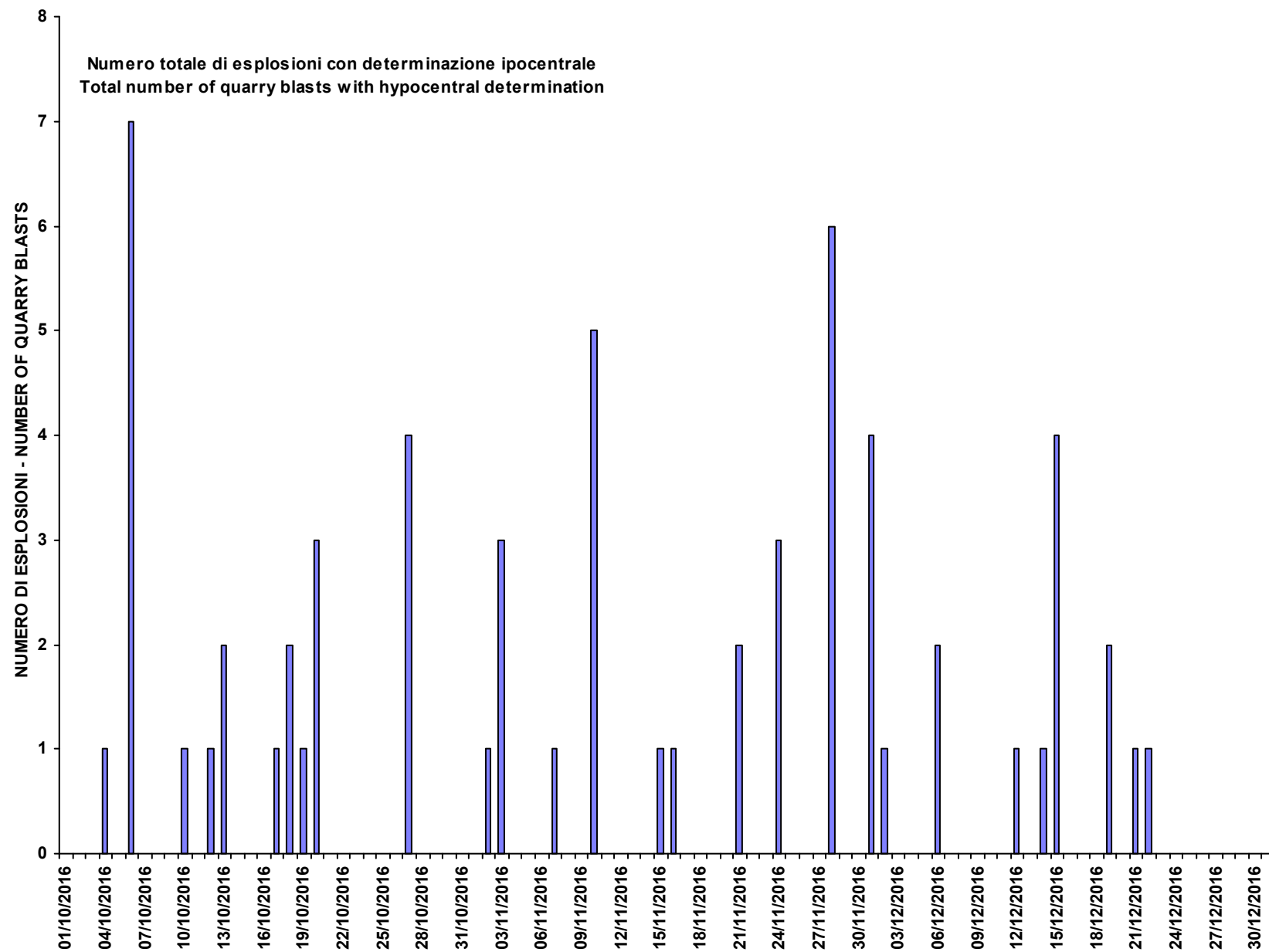
## RETE SISMICA DEL TRENTINO ; PERIODO : OTTOBRE - DICEMBRE 2016

TRENTINO SEISMOMETRIC NETWORK ; PERIOD : OCTOBER - DECEMBER 2016



RETE SISMICA DEL TRENTINO ; PERIODO : OTTOBRE - DICEMBRE 2016

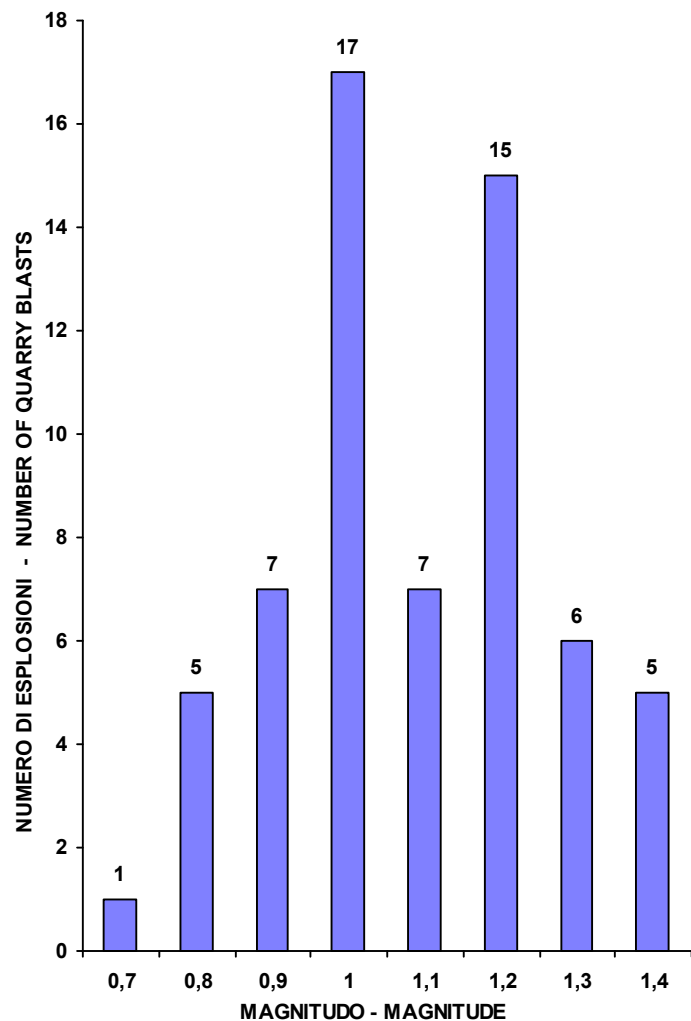
TRENTINO SEISMOMETRIC NETWORK ; PERIOD : OCTOBER - DECEMBER 2016



RETE SISMICA DEL TRENTINO ; PERIODO : OTTOBRE - DICEMBRE 2016

TRENTINO SEISMOMETRIC NETWORK ; PERIOD : OCTOBER - DECEMBER 2016

Numero di esplosioni in funzione della magnitudo  
Number of quarry blasts versus magnitude



Numero di terremoti in funzione della magnitudo  
Number of earthquakes versus magnitude

