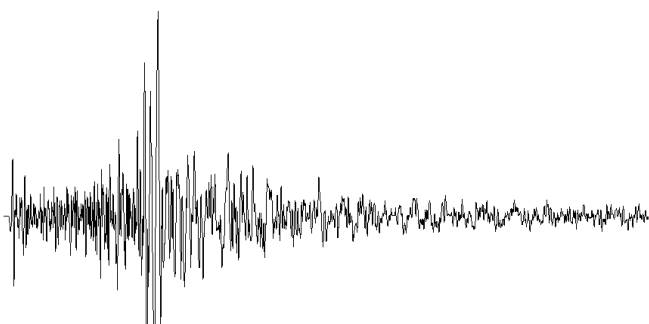
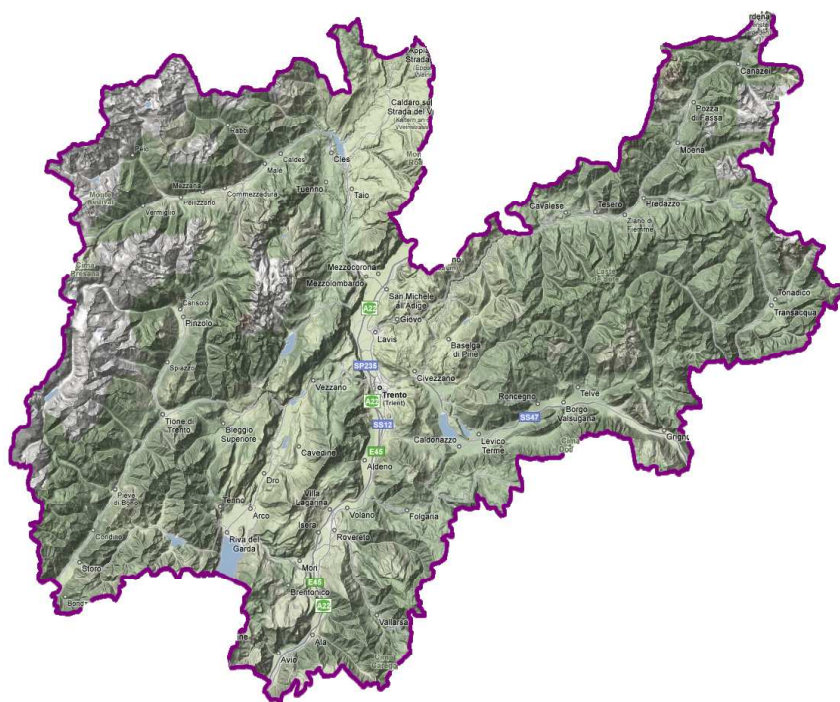


PROVINCIA AUTONOMA DI TRENTO

SERVIZIO GEOLOGICO

TRENTINO SEISMOMETRIC NETWORK

OCTOBER
DECEMBER
2013



QUARTERLY BULLETIN



PROVINCIA AUTONOMA DI TRENTO
Servizio Geologico



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

TRENTINO SEISMOMETRIC NETWORK

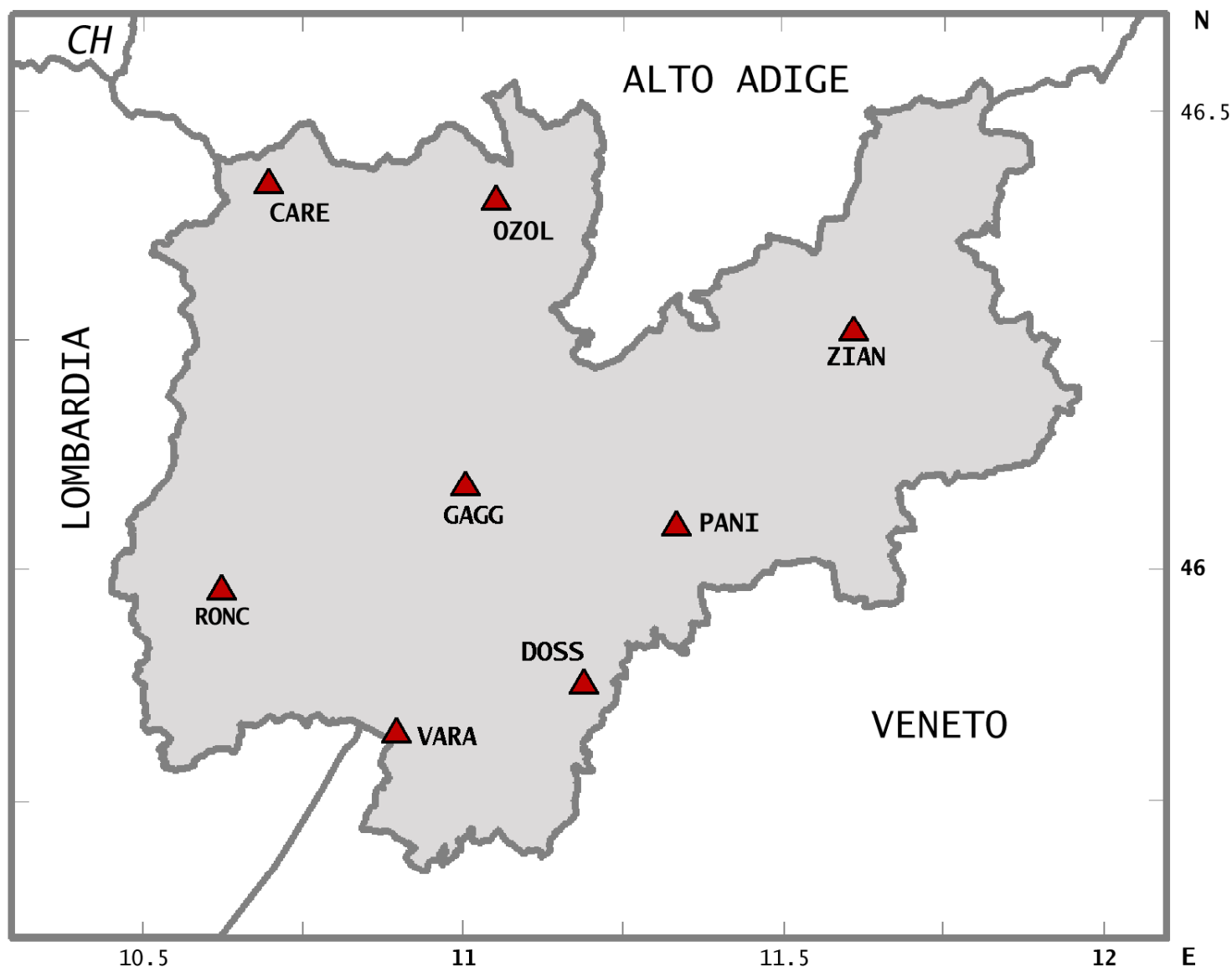
PROVINCIA AUTONOMA DI TRENTO

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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 OGS-CRS (N-E Italy Seismic Network)
(I) is the INGV (Rome)
(S) is the Swiss Seismological Service

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 2013*

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			

01/10/2013	01:09:28,74	,	,											10	PIANURA PADANA EMIL.	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	e	d	2	01:09:28.74			44,91	1							91					
DOSS			2	01:09:30.02			46,39	2							87					
RNI			2	01:09:31.32			48,9	1							90					
GAGG			2	01:09:33.00			51,28	1							88					
PANI			3	01:09:33.28			51,69	3							90					
ZIAN			2	01:09:37.13			59,38	3							90					
OZOL			3	01:09:37.49			59,08	2							87					

01/10/2013	12:40:59.41	,	,											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	12:40:59.41			60,1	0							22					

01/10/2013	18:01:02,37	45,6690	11,4378	17	1	1,1	0	0	0,4	90	0	0,4	B	0,1	0	SCHIO (VI)			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	0	18:01:08.46	30,4	320	12,89	2	119						16	0,13		-0,08	0,8	0,7	
PANI	i	d	0	18:01:10.35	43,2	349	16,13	3	111						12	0,04		-0,36	0,9	1,1	
VARA	e		3	18:01:10.75	45,6	292			110						14	0,06			1	0,8	
GAGG	e		2	18:01:12.76	59,2	321			106							-0,14			0	1,1	

02/10/2013	00:20:21,85	45,7638	11,0955		9,65	0,4		0	0	0,2	90	0	0,2	B	0,03	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	00:20:24.91	14,8	29	27,19	2	123							0,04		-0,03	0	0,2		
VARA	e		2	00:20:25.17	16,9	294	27,79	2	120							-0,01		0,01	0,3	0		

02/10/2013	08:15:54,52	45,5278	10,9865	12,67	1,9	1,8	0	0	0,9	90	0	0,9	C	0,19	0	GREZZANA (VR)			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	
VARA	i	d	0	08:16:00.85	33,9	348	5,25	2	111							0,14		-0,28	1,8	1,7	
DOSS	i	d	1	08:16:02.17	42,2	22	7,71	2	107							0,12		-0,22	2,2	2,4	
RNI	e	d	1	08:16:04.45	57,8	331			102						36	-0,18			1,7	1,8	
GAGG	e		2	08:16:05.25	61,8	358			102						30	-0,06			1,7	1,5	
PANI	e		1	08:16:05.71	64,1	25			101							0,01			1,5	1,8	
ZIAN	e		2	08:16:10.72	94,5	28			98							-0,1			2	2,1	
OZOL	e		2	08:16:11.73	97,4	3			97							0,41			2	1,9	
CARE	e		2	08:16:12.14	102,2	347			97							0,02			1,7	1,7	

02/10/2013	08:48:59,98	46,5721	10,2870		8,52	1,2		0	0	1,4	90	0	1,4	C	0,14	0	SAN GIACOMO FR. (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	08:49:06.21	35,5	118	10,77	3	103							-0,01		-0,32	1,1	1,1	
RNI	e		2	08:49:12.38	70,6	159				97						0,24			1	1,2	

QUATERLY BULLETTIN *October-December 2013*

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			

02/10/2013	15:17:15,92	46,1430	11,1746	0,91	1,1		0	0	0,6	90	0	0,6	C	0,12	2	ALBIANO (TN)	EXPL?
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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
PANI	e	c	1	15:17:18.60	16,1	130			93							-0,08			1,3	1,4
GAGG	e	c	1	15:17:19.02	18	248			93							0,02			0,9	0,9
DOSS	e	c	2	15:17:20.82	29,3	178			92							-0,11			1	1,2
OZOL	e		2	15:17:21.34	30,4	342			92							0,21			1	1
ZIAN	e		2	15:17:21.53	33,4	64			92							-0,11			1,2	0,8
CARE	e		2	15:17:24.17	48,3	310			91							-0,01			0	0,9

02/10/2013	16:28:38,31	46,1318	11,1841	6,48	0,9		0	0	0,2	90	0	0,2	B	0,02	2	ALBIANO (TN)	EXPL?
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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
PANI	i	c	0	16:28:41.05	14,7	128			114							-0,01			1	1
GAGG	e	c	2	16:28:41.60	18,2	253			110							-0,02			0,7	0,8
DOSS	i	c	1	16:28:43.25	28	179			103							0,03			0,8	1
ZIAN	i	c	1	16:28:44.11	33,4	61			101							-0,01			0,8	0,6
CARE	e		2	16:28:46.84	49,7	311			97							-0,03			0,9	1

02/10/2013	17:18:35,42	,	,												10		
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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			3	17:18:35.42			81,59	3							287					
PANI			3	17:18:38.51			87	3							282					
OZOL	e	d	2	17:18:38.78			86,33	2							281					
DOSS			2	17:18:41.08			89,57	3							280					
CARE			2	17:18:41.90			88,99	3							278					
GAGG			3	17:18:42.20			91,34	3							279					
VARA			3	17:18:43.86			92,96	3							279					
RNI			3	17:18:44.59			96,14	3							280					

02/10/2013	20:49:42,45	,	,												0	CARE	
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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
CARE	e		2	20:49:46.52	32	115	50,68	1	96							0,1		-0,03	1,2	1,1

03/10/2013	03:36:40,29	46,6248	10,2678	9,5	1		0	0	2	90	0	2	C	0,24	0	ACQUA DEL GALLO (SO)	M 1.0(S)
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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
CARE	e		2	03:36:47.48	39,8	124	52,31	2	103							0,19		-0,43	0,8	0
OZOL	e		2	03:36:51.76	65	112			98							0,23			1	0,9
RNI	e		2	03:36:53.49	76,6	159			97							-0,01			1	1,1

03/10/2013	03:39:20,13	45,9066	12,1965	11,88	1,2	1,2	0	0	2,6	90	0	2,6	D	0,12	0	PIEVE DI SOLIGO (TV)	
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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
PANI	e		2	03:39:32.19	68,7	283			100							0,15			1,1	1,4
DOSS	e		3	03:39:33.86	78,3	268			99							0,2			0	0

03/10/2013	04:43:49,76	46,0146	11,8278	6,38	1,6		0	0	0,5	90	0	0,5	B	0,12	0	FONZASO (BL)	M 1.5(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	d	1	04:43:55.92	35,6	325	60,61	2	100							-0,02		-0,14	1,6	1,7
PANI	e		2	04:43:56.85	38,4	276	61,56	3	99							0,44		-0,04	1	1,4
DOSS	e		2	04:43:58.93	51,8	253			97							0,25			1,4	1,3

QUATERLY BULLETTIN *October-December 2013*

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			

03/10/2013	15:00:10,40	46,1388	11,1801	2,52	1,3		0	0	0,3	90	0	0,3	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	15:00:13.05	15,5	129				99						-0,02			1,2	1,4
GAGG	i	c	1	15:00:13.57	18,2	250				98						0,03			1,3	1,2
DOSS	i	c	1	15:00:15.27	28,8	179				95						-0,07			1,1	1,3
OZOL	e		2	15:00:15.75	31	341				95						0,03			1,5	1,3
ZIAN	i	c	1	15:00:16.07	33,3	63				94						-0,03			1,1	1,2
CARE	e		1	15:00:18.78	48,9	310				93						0,01			1	0

03/10/2013	15:03:07,59	46,1270	11,1906	4,98	1,2		0	0	0	90	0	0	C	0	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	15:03:10.13	14	127				110						0			1,3	1,2
GAGG	e	d	1	15:03:10.88	18,6	255				105						0			1,3	0,9
DOSS	e	c	1	15:03:12.36	27,4	180				100						0			1	1
ZIAN	e		1	15:03:13.33	33,2	60				99						0			1,2	1

04/10/2013	06:59:21,92	,	,											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	d	1	06:59:21.92			23,15	1							30					

04/10/2013	14:38:15,00	45,7690	11,0354	12,94	1	1,1	0	0	0,7	90	0	0,7	C	0,2	0	ALA (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	
VARA	i	d	1	14:38:18.31	12,5	300	20,5	2	136						19	0,23		0,02	1	0,8	
DOSS	e		2	14:38:18.90	17,1	44	21,48	2	127						12	0,22		-0,06	0,8	0,7	
GAGG	e		2	14:38:21.79	35,5	350	26,45	2	110						14	0,33		-0,04	1,1	0,9	
PANI	e		2	14:38:21.87	39	37	27,38	3	108							-0,16		-0,12	0,6	0,8	
RNI	e		3	14:38:22.18	39,8	306	27,87	2	108							0,03		0,14	0,9	1,1	

04/10/2013	15:44:15,00	,	,											10	MAR ADRIATICO C-SETT	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	15:44:15.00			50,39	3							190					
VARA			2	15:44:15.91			52,41	2							195					
PANI	e	c	1	15:44:16.02			51,06	2							194					
ZIAN			2	15:44:17.49			53,32	2							195					
GAGG			1	15:44:18.79			56,95	2							190					
RNI			2	15:44:19.54			58,51	2							193					
OZOL			2	15:44:21.62			61,24	1							189					
CARE			2	15:44:24.30			65,86	2							186					

04/10/2013	22:23:05,58	,	,											10	CHIOGGIA (VE)			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
DOSS			1	22:23:05.58			22,09	1							94					
PANI			2	22:23:06.07			22,46	2							100					
ZIAN			1	22:23:07.74			25,25	3							102					
VARA			2	22:23:08.18			26,06	1							102					
GAGG			2	22:23:09.88			29,41	2							94					
RNI			2	22:23:12.28			33,85	1							100					
OZOL			2	22:23:13.03			34,11	1							96					
CARE			2	22:23:16.41			39,45	2							95					

QUATERLY BULLETTIN *October-December 2013*

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			

05/10/2013	09:05:04,83	45,8508	11,2898	14,58	0,5		0	0	1	90	0	1	C	0,18	0	LASTEBASSE (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	i	c	1	09:05:07.95	8,5	293	10,11	2	150							0,23		0,14	0,2	0,5
PANI	i	d	0	09:05:09.47	22,5	9	12,67	2	123							0,05		-0,32	0,3	0,3
VARA	e		2	09:05:10.75	30,7	265	15,02	3	115							0,11		-0,15	0,8	0,6
GAGG	e		2	09:05:11.63	36,4	315	16,59	2	112							0,09		-0,19	0	0

05/10/2013	10:52:59,59	,	,											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	2	10:53:03.66	31,6	110	7,81	2	101							0,1		-0,04	0,9	0

05/10/2013	15:45:28,63	46,3890	10,8568	7,87	1,2		0	0	0,7	90	0	0,7	B	0,27	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	15:45:31.50	12,9	288	33,32	1	121							0,28		0,09	1,1	1,4			
OZOL	e		1	15:45:31.63	15,1	84	33,66	2	118							0,09		-0,15	1,2	1,4			
GAGG	e		2	15:45:35.05	34,9	167			103							0,31			1,1	0			
RNI	e		2	15:45:37.25	48,8	202	43,72	3	99							0,16		0,04	0,7	1			
PANI	e		2	15:45:37.83	52,7	136			98							0,09			0	0,8			
ZIAN	e		2	15:45:38.34	55,8	103			98							0,07			0	1			
DOSS	e		2	15:45:39.46	62,1	156			97							0,12			1,2	1,4			

05/10/2013	15:50:55,30	46,3903	10,8566	7,77	1		0	0	1	90	0	1	B	0,28	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	c	1	15:50:58.13	12,8	287	59,94	1	121							0,27		0,08	1	1,4
OZOL	e	d	0	15:50:58.24	15,1	84	60,3	2	117							0,05		-0,15	1,2	1,4
GAGG	e		2	15:51:01.80	35	167				103						0,37			0	1
RNI	e	c	1	15:51:03.83	49	202				99						0,06			0,6	0,9
PANI	e		2	15:51:04.73	52,8	136				98						0,31			0,9	0,9
ZIAN	e		1	15:51:04.99	55,9	103				98						0,05			0,9	0,8

06/10/2013	03:17:52,74	,	,											0	RNI					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
RNI	e	c	1	03:17:52.74			53,29	1							23					

06/10/2013	17:38:44,80	46,4683	10,5136	2,71	0,6		0	0	0	90	0	0	B	0	0	IL GRAN ZEBRU' (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	i	d	0	17:38:47.40	14,9	109	49,42	1	100							0		0	0	0,3

07/10/2013	02:50:35,29	45,8573	11,2981	13,39	2	1,9	0	0	0,6	90	0	0,6	B	0,27	0	LASTEBASSE (VI)			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	
DOSS	i	d	0	02:50:38.43	8,9	287	40,59	2	147						30	0,39		0,41	1,8	2,3	
PANI	i	d	0	02:50:39.95	21,7	8	43,3	2	122						29	0,28		0,24	1,8	1,9	
VARA	e		2	02:50:41.26	31,4	264	45,49	2	113							0,12		-0,2	2	1,9	
GAGG	i	d	0	02:50:42.06	36,4	314	47,31	2	110						31	0,13		0,21	1,8	1,7	
ZIAN	i	d	0	02:50:44.37	50,9	24	50,46	2	105							0,08		-0,85	2,2	2,4	
RNI	e		1	02:50:44.71	54,2	285	51,86	2	104						38	-0,13		-0,42	1,7	1,8	
OZOL	e	c	1	02:50:46.48	63,6	343			102						38	0,07			1,9	1,9	
CARE	e		2	02:50:48.88	78,3	324			100							0			1,7	1,9	

QUATERLY BULLETTIN *October-December 2013*

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				

07/10/2013	22:52:53,67	,	,											0						
st_name	p_rem	m	w_p	time_s	dist	azm	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	22:52:53.67			55,57	1							37					
VARA	e	d	1	22:52:53.94			56,16	1							37					
DOSS	i	c	1	22:52:54.14			56,35	1							37					

07/10/2013	23:26:00,82	,	,											10	PIANURA PADANA EMIL.	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	e	d	2	23:26:00.82			15,6	2							107					
DOSS			2	23:26:01.09			16,34	1							104					
PANI			2	23:26:04.36			21,26	1							104					
RNI			2	23:26:04.61			22,68	2							104					
GAGG	e	d	1	23:26:05.40			22,71	1							104					
ZIAN			2	23:26:08.59			27,46	2							106					
OZOL			2	23:26:10.52			32,28	2							104					
CARE			2	23:26:11.24			33,63	1							101					

08/10/2013	10:19:58,38	,	,											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			2	10:19:58.38			73,51	1							90					
VARA			2	10:19:58.54			72,68	1							96					
PANI			2	10:20:01.61			18,27	1							92					
RNI			2	10:20:02.17			20,5	1							93					
GAGG			2	10:20:02.49			20,31	1							91					
ZIAN			2	10:20:04.98			23,52	1							94					
CARE			3	10:20:08.65			31,29	3							90					

08/10/2013	13:09:23,40	45,6208	9,8698	18,63	2,4	2,2	0	0	3,3	90	0	3,3	D	0,31	0	CAPRIOLO (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	
RNI	e		1	13:09:36.21	70,9	56	45,98	2	105						49	0,28		0,28	2,5	2,6	
VARA	e		2	13:09:37.82	83,1	74			59							-0,01			2,3	2,2	
GAGG	e		2	13:09:40.18	99	59			59						39	0,02			2,3	2,3	
DOSS	e		2	13:09:40.75	106,6	74			59						49	-0,53			2,4	2,4	
CARE	e	c	2	13:09:42.02	109,9	36			59						53	0,25			2	2	
OZOL	e		2	13:09:44.62	126,3	46			59						47	0,44			2,5	2,4	

08/10/2013	15:44:39,82	46,4670	10,5233	7,95	0,9		0	0	1,6	90	0	1,6	C	0,17	0	IL GRAN ZEBRU' (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	i	c	0	15:44:42.75	14,2	109	44,69	2	119							0,16		-0,07	0,9	1,1	
RNI	e		2	15:44:49.48	54,6	172	56,32	2	98							0,23		-0,28	0,8	0,8	

09/10/2013	00:42:54,76	46,6340	10,1118	28,27	1		0	0	1	90	0	1	C	0,05	0	PONTE DEL GALLO (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	00:43:04.29	50,6	117	11,72	2	108							0		0	0,9	1	
RNI	e		3	00:43:08.89	82,6	152				98						0			0,9	1,2	

QUATERLY BULLETTIN *October-December 2013*

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				

09/10/2013	02:34:19,51	,	,											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		2		02:34:19.51			21,28	2							30					

09/10/2013	02:41:46,27	45,6635	10,7636		6,46	0,8		0	0	1,8	90	0	1,8	C	0,13	0	CAPRINO VERON. (VR)		M 0.9(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
VARA	e	2		02:41:49.78	20,8	30	53,03	2	107							-0,21		0,13	1	0,8
RNI	e	2		02:41:52.78	36,9	343			100							0,1			0,7	0,8

09/10/2013	16:07:00,90	46,1393	11,1805		3,05	1,3		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	0	16:07:03.63	15,5	130			101							0,03			1,2	1,4
GAGG	i	c	1	16:07:04.06	18,2	250			99							-0,01			1,3	1,1
DOSS	i	c	1	16:07:05.84	28,9	179			96							-0,02			1,1	1,3
OZOL	e	2		16:07:06.33	31	341			96							0,11			1,4	1,4
ZIAN	e	c	1	16:07:06.54	33,2	63			95							-0,07			1,4	1,2
CARE	e	c	2	16:07:09.18	48,9	310			94							-0,1			1,2	1,1

10/10/2013	14:07:50,35	46,6101	11,4026		7,98	1,1		0	0	0,5	90	0	0,5	C	0,07	0	SARENTINO (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		14:07:56.55	35,4	230	61,42	2	103							-0,01		0,02	0,9	1
ZIAN	e	2		14:07:57.31	39,1	162			102							0,13			1	1
CARE	e	2		14:08:00.32	57,9	249			98							-0,03			1,2	1,2

10/10/2013	22:42:36,71	,	,											10	C. MARCHIGIANA SETT		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		3		22:42:36.71			63,59	2							175					
ZIAN		3		22:42:40.38											172					
GAGG		3		22:42:41.07			69,69	2							174					
RONC		3		22:42:42.04			70,2	2							175					
OZOL		2		22:42:44.81			75,65	3							173					
CARE		3		22:42:46.61			79,91	2							172					

11/10/2013	08:14:40,84	45,8933	11,1245		7,79	0,8		0	0	0,6	90	0	0,6	C	0,02	0	TERRAGNOLO (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	0	08:14:42.42	5,2	107	43,71	1	146							-0,02		0,02	0,8	1
PANI	e	2		08:14:45.15	23,9	43			108							0,01			0,5	0,6
GAGG	e	c	1	08:14:45.30	24,7	329	48,71	2	107							0,02		-0,03	0	0,9

11/10/2013	15:31:48,34	46,1418	11,1818		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		15:31:51.24	15,6	131			114							-0,01			1	1,1
GAGG	e	c	1	15:31:51.71	18,4	249			111							0			0,8	0,8
DOSS	e	c	2	15:31:53.46	29,1	179			104							0,01			0,9	1

QUATERLY BULLETTIN *October-December 2013*

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			

11/10/2013	21:54:42,04	,	,										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	e	d	0	21:54:42.04			43,82	1							33					
OZOL			1	21:54:42.31			44,63	1							33					

11/10/2013	22:24:49,35	45,8153	11,0420		13,88	1,5	1,7	0	0	0,6	90	0	0,6	B	0,2	0	ROVERETO (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	i	d	0	22:24:52.65	11,4	276	54,9	2	141							0,24		0,1	1,5	1,4
DOSS	i	c	0	22:24:52.84	13,5	58	55,06	2	136						31	0,19		-0,17	1,6	1,7
GAGG	i	d	0	22:24:55.17	30,5	348	59,29	2	114						23	0,1		-0,25	1,2	1,1
PANI	e	c	1	22:24:55.90	34,7	41	60,42	3	112						25	0,17		-0,28	1,4	1,6
RONC	e	c	1	22:24:56.13	37,4	299	61,39	3	110							-0,03		-0,09	1,4	1,6
OZOL	e		2	22:25:00.81	65,4	1			102							0,04			1,3	1,3
ZIAN	e		2	22:25:00.85	65,2	38			102							0,11			1,6	1,6
CARE	e		1	22:25:02.10	72,8	339			101							0,09			1,6	0

12/10/2013	02:08:25,52	45,8273	11,0451		11,7	0,4		0	0	0,4	90	0	0,4	C	0,04	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	02:08:28.29	11,6	269	30,54	2	135							-0,04		0,02	0	0
DOSS	i	c	1	02:08:28.50	12,6	62	30,72	2	133							0,05		-0,03	0	0,4
GAGG	e		2	02:08:30.85	29,3	347	35,14	2	112							-0,05		0,04	0	0

12/10/2013	17:52:43,52	,	,												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	17:52:43.52			44,55	1							21					

13/10/2013	00:44:05,73	46,0301	11,6278		4,93	1,4	1,4	0	0	0,4	90	0	0,4	A	0,11	0	CINTE TESINO (TN)		M 1.2(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
ZIAN	e	d	1	00:44:10.57	27,8	350	14,43	2	100							0,01		0,1	1,6	1,4
DOSS	e		2	00:44:12.27	37,9	244			97							0			1,4	1,2
OZOL	e		2	00:44:16.25	60,8	313			95							0,09			1,7	1,6

13/10/2013	03:14:08,65	45,8523	10,9245		14,42	0,8		0	0	0,5	90	0	0,5	B	0,18	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	i	c	1	03:14:13.04	20,8	81	16,18	2	125							0,07		-0,16	0,6	0,7
GAGG	e		1	03:14:13.91	25,8	6	17,71	1	119							0,2		0,05	0	0
RONC	e		2	03:14:14.08	27,4	301	18,08	2	118							0,13		0	0,8	0,9
ZIAN	e		2	03:14:20.55	68,3	46			102							-0,04			1	0,8

13/10/2013	09:30:27,43	46,2605	11,5015		5,08	0,6		0	0	0,4	90	0	0,4	B	0,07	0	TESERO (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	i	c	0	09:30:28.66	5,1	70	29,63	2	135							0,01		0,02	0,8	0,4
PANI	e		2	09:30:31.99	26,6	209	35,72	2	101							-0,07		0,05	0,5	0,4
GAGG	e		2	09:30:35.58	46,3	245			96							0,19			0	0

QUATERLY BULLETTIN *October-December 2013*

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				

13/10/2013	20:50:50,27	,	,											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		20:50:50.27			64,49	2							101					
DOSS		3		20:50:50.85			65,87	2							96					
RONC		3		20:50:53.66			70,91	3							100					
PANI		3		20:50:53.81			71,57	3							100					
GAGG		3		20:50:54.21			71,78	3							95					
ZIAN		2		20:50:57.97			78,7	3							101					
OZOL		3		20:50:59.41			81,5	3							95					
CARE		3		20:51:00.31			23,02	3							96					

14/10/2013	02:09:05,38	,	,											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	02:09:05.38			6,71	1							25					

14/10/2013	16:27:03,50	,	,											10	APPENNINO LIGURE				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
RONC		3		16:27:03.50			28,27	3							117					
VARA		3		16:27:03.89			30,02	3							117					
DOSS		3		16:27:06.33			34,12	3							112					
GAGG		3		16:27:06.55			34,57	3							114					
PANI		3		16:27:08.60											115					
CARE		3		16:27:09.05			36,2	3							113					

15/10/2013	02:47:58,67	,	,											10	ALPI COZIE				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		
RONC	e	c	2	02:47:58.67			93,56	3							181							
VARA			3	02:48:00.06			34,33	3							181							
DOSS			2	02:48:02.41			37,39	2							178							
GAGG			2	02:48:02.65			37,98	3							178							
CARE			3	02:48:04.01			42,35	3							177							
PANI			2	02:48:04.62			41,22	2							179							
OZOL			2	02:48:06.85			45,86	3							179							
ZIAN			2	02:48:08.41			49,07	3							182							

15/10/2013	14:52:11,00	46,1286	11,2145	0,63	1		0	0	0,2	90	0	0,2	C	0,02	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	0	14:52:13.16	12,7	133				93						-0,01			0,9	1
GAGG	e		2	14:52:14.49	20,4	256				92						0			0,8	0,7
DOSS	e		2	14:52:15.75	27,7	184				91						0,01			0,9	1
ZIAN	e		2	14:52:16.35	31,5	59				91						-0,04			0	0
CARE	e		2	14:52:19.82	51,7	310				91						-0,01			1,2	0,8

16/10/2013	03:42:47,88	45,8238	11,3791		8,91	0,8		0	0	1,1	90	0	1,1	C	0,31	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	i	c	0	03:42:51.36	16	293	53,87	1	119							0,35		0,41	0,9	0,9	
PANI	e		1	03:42:52.74	25,5	352			109							0,25			0	0,4	
VARA	e		1	03:42:54.53	37,5	270	59,14	2	103							0,06		-0,47	0	0	
GAGG	e		2	03:42:55.56	43,5	312	61,25	2	102							0,09		-0,15	1,1	0	
ZIAN	e		1	03:42:57.00	52,3	16	63,12	2	100							0,06		-0,89	0,7	0,8	

QUATERLY BULLETTIN *October-December 2013*

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			

16/10/2013	15:23:44,76	46,1398	11,1831	4,98	0,8		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	e	c	0	15:23:47.52	15,3	130				108						0			0,9	1
GAGG	e	c	1	15:23:48.02	18,4	250				105						-0,01			0,8	0,7
DOSS	e	c	1	15:23:49.77	28,9	179				100						0			0,9	0,8
ZIAN	e	d	1	15:23:50.47	33	63				99						0			0,6	0,7

16/10/2013	15:24:49,14	46,1263	11,1911	5,67	0,7		0	0	0,4	90	0	0,4	C	0,03	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	e	c	1	15:24:51.70	13,9	127				112						-0,01			0,4	0,5
GAGG	e		1	15:24:52.44	18,6	255				107						-0,02			0	0,6
DOSS	e	c	1	15:24:53.94	27,4	180				102						0,02			0	0,7
ZIAN	e	c	1	15:24:54.84	33,2	60				100						-0,06			0,6	0,6

16/10/2013	17:37:04,04	,	,											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		2		17:37:04.04			6,21	1							32					

17/10/2013	04:02:58,36	,	,											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	e	c	1	04:02:58.36			58,77	1							26					

17/10/2013	10:08:06,87	46,1813	11,2025	8,74	1		0	0	0,2	90	0	0,2	B	0,03	2	CEMBRA (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		1	10:08:10.23	17,8	145				116						-0,02			0,7	1
GAGG	i	c	1	10:08:10.85	21,8	240				112						-0,03			0	0,8
OZOL	e		2	10:08:11.77	27,3	335				108						0,01			0,8	0,7
ZIAN	e	c	1	10:08:12.15	29,8	69				106						-0,02			1,1	0,7
DOSS	i	c	1	10:08:12.85	33,5	182				105						0,06			0,9	1
CARE	e		2	10:08:15.11	47,4	305				100						0,01			0,9	1,1

17/10/2013	10:09:30,35	46,1376	11,1841	6,69	1		0	0	0,2	90	0	0,2	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	0	10:09:33.17	15,1	130				114						-0,01			0,8	1	
GAGG	e	c	1	10:09:33.66	18,4	251				110						-0,04			1,1	0,7	
DOSS	e	c	1	10:09:35.40	28,6	179				103						0,02			0,8	0,9	
ZIAN	e	c	1	10:09:36.12	33,1	62				101						0			0,9	0,5	

17/10/2013	11:32:57,11	,	,											10	PIANURA PADANA EMIL.				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
VARA		2		11:32:57.11			72,78	2							94					
DOSS		2		11:32:57.63			72,58	1							93					
PANI		2		11:33:00.78			17,82	2							93					
RONC		3		11:33:01.06			18,96	2							92					
GAGG		2		11:33:01.75			18,87	1							92					
ZIAN		3		11:33:04.99			23,85	3							92					
CARE		2		11:33:07.82			30,1	2							91					

QUATERLY BULLETTIN *October-December 2013*

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			

17/10/2013	15:01:28,71	46,1330	11,1863	5,36	1,2		0	0	0,4	90	0	0,4	C	0,07	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	0	15:01:31.38	14,7	128			110							0			1,3	1,3	
GAGG	i	c	1	15:01:31.92	18,4	253			106							-0,08			1,1	0,9	
DOSS	i	c	1	15:01:33.58	28,1	180			101							-0,02			1	1,2	
ZIAN	i	c	0	15:01:34.46	33,2	61			99							0			1,2	1,1	
VARA	e	c	2	15:01:35.90	40,8	213			97							0,15			1,2	0,9	
RONC	e		2	15:01:37.02	46,8	249			97							0,26			0,9	1	
CARE	e		1	15:01:37.21	49,7	311			96							-0,05			0	1,2	

17/10/2013	15:38:00,01	45,7463	10,8651	14,4	1,5	1,6	0	0	0,6	90	0	0,6	B	0,18	0	AVIO (TN)				M 1.5(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			
VARA	i	c	0	15:38:03.20	9,2	15	5,36	2	147							0,27		0,16	1,8	1,5			
DOSS	i	c	1	15:38:05.77	29,2	59	10	2	116						27	0,2		0,08	1,7	1,6			
RONC	i	d	1	15:38:06.03	32,1	324	10,52	2	114							0		-0,2	1,4	1,6			
GAGG	e		2	15:38:07.23	38,2	11	12,07	2	111						23	0,25		-0,35	1,6	1,5			
PANI	e	c	1	15:38:09.00	49,7	47	15,71	2	106						21	0,14		-0,05	1,4	1,6			
CARE	e		2	15:38:13.48	76,5	350			101							0,17			0	1,4			
ZIAN	e		2	15:38:13.93	80	43			100							0,04			0	1,3			

18/10/2013	01:28:58,73	46,3725	10,4238	2,6	1,1		0	0	1,1	90	0	1,1	C	0,17	0	S. ANTONIO MOR. (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	i	c	0	01:29:02.45	21,8	75				97						-0,04			1	1	
RONC	e		2	01:29:07.00	46,2	161	12,74	2	93							0,36		-0,06	0,9	1	
OZOL	e	d	1	01:29:07.28	48,4	86				93						0,26			1,1	1	

18/10/2013	06:46:55,74	46,2321	10,5695	1,49	0,8		0	0	0,4	90	0	0,4	C	0,1	0	TEMU' (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	e		2	06:46:59.76	23,5	25	62,81	2	94							-0,01		-0,11	0,8	0,7
RONC	e	c	2	06:47:00.63	28,2	172	4,41	2	93							0,06		0,07	0,7	0,7

18/10/2013	11:44:41,86	,	,											10	COSTA TOSCANA SETT.				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			3	11:44:41.86			72,43	3							136					
DOSS			3	11:44:43.66			74,92	3							135					
RONC			3	11:44:45.92			75,78	3							134					
GAGG			3	11:44:46.76											134					
CARE			3	11:44:48.54											133					

18/10/2013	12:43:12,02	,	,												10	SONDRIO				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	2	12:43:12.02			20,34	1							68						
RONC			2	12:43:12.85			24,03	3							71						
GAGG			3	12:43:16.09			29,1	3							66						
OZOL			3	12:43:16.84											66						

QUATERLY BULLETTIN *October-December 2013*

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				

18/10/2013	14:44:39,93	,	,											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	e	c	1	14:44:39.93			41,97	0							28					

19/10/2013	13:30:13,44	,	,											10	COSTA TOSCANA SETT.				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		
VARA			3	12:30:13.44			51,67	3							188							
DOSS			2	12:30:14.20			51,47	2							183							
RONC			3	12:30:16.32			54,64	3							187							
GAGG			3	12:30:16.65			55,55	3							185							
PANI			2	12:30:16.78			55,47	3							187							
ZIAN			3	12:30:21.17			62	3							189							
OZOL			2	12:30:21.48			64,89	3							185							
CARE			2	12:30:21.58			64,67	3							181							

19/10/2013	16:22:26,06	,	,											10	APPENNINO LIGURE	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
RONC	e	d	1	16:22:26.06			50,13	2							189					
VARA			3	16:22:27.56			53,86	2							189					
DOSS			3	16:22:28.70			58,45	2							186					
GAGG			2	16:22:29.08			58,61	3							190					
PANI	e	d	1	16:22:31.49			62,66	2							187					
CARE	e	d	1	16:22:31.67			59,39	2							188					
OZOL			2	16:22:34.54			67,29	3							187					
ZIAN			2	16:22:35.66			70,43	2							186					

19/10/2013	20:23:22,29	45,8100	11,1701	14,03	0,6		0	0	0,8	90	0	0,8	C	0,15	0	TRAMBILENO (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	0	20:23:25.28	7,9	11	27,41	1	151							0,24		0,22	0	0,4	
VARA	e	c	1	20:23:26.74	21,3	275	29,94	2	123							0,08		-0,12	0,6	0,4	
PANI	e		2	20:23:28.03	29,7	26	31,93	2	115							0,13		-0,34	0,4	0,4	
GAGG	e		1	20:23:28.71	34,5	332	33,44	2	112							0,05		-0,19	1	0	

19/10/2013	20:45:16,69	45,8048	11,1601	13,98	0,5		0	0	0,6	90	0	0,6	B	0,11	0	TRAMBILENO (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	20:45:19.60	8,6	15	21,72	1	148							0,1		0,02	0	0,4	
VARA	e		2	20:45:21.10	20,6	277	24,32	2	124							0,15		0,04	0,4	0,5	
PANI	e		3	20:45:22.64	30,5	26			115							0,21			0	0,4	
GAGG	e	c	1	20:45:23.05	34,7	333	27,89	2	112							-0,04		-0,18	0	1	

21/10/2013	06:59:57,48	,	,											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	e	d	1	06:59:57.48			59,4	2							28					

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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			

21/10/2013	12:43:17,39	,	,											10	SOCA [SLO]				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		
ZIAN		3		12:43:17.39											124							
PANI		2		12:43:20.15			43,8	1							117							
DOSS		3		12:43:21.78			47,08	2							118							
OZOL		3		12:43:22.89			49,93	2							116							
GAGG		3		12:43:23.86			51,46	2							116							
CARE		3		12:43:26.76			56,09	3							117							
RONC		3		12:43:29.13			58,85	3							114							

21/10/2013	22:02:40,31	,	,											10					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		
ZIAN	e	d	2	22:02:40.31			62,98	2														
OZOL	i	d	2	22:02:45.06			67,65	2														
PANI			3	22:02:45.80			70,41	1														
DOSS	e	d	2	22:02:48.89			74,26	2														
CARE	e	d	2	22:02:49.03			73,82	2														
GAGG	e	d	2	22:02:49.32			75,6	2														
VARA	e	d	2	22:02:52.92			80,72	2														
RONC	e	d	2	22:02:53.40			82,32	1														

22/10/2013	16:48:46,54	46,1319	11,1780	4,63	1,3		0	0	0,3	90	0	0,3	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	0	16:48:49.22	15,1	127				107						-0,03			1,3	1,5	
GAGG	i	c	1	16:48:49.72	17,8	252				105						0,03			1,4	1,2	
DOSS	i	c	1	16:48:51.39	28	178				99						-0,01			1,2	1,3	
OZOL	e		2	16:48:52.11	31,7	342				98						0,09			1,4	1,2	
ZIAN	i	c	1	16:48:52.31	33,8	62				98						-0,06			1,3	1,1	
CARE	e	c	1	16:48:55.00	49,3	311				95						-0,01			0	1,2	

22/10/2013	17:08:51,67	46,1293	11,1820	2,52	0,7		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	1	17:08:54.22	14,7	126				100						0			0,4	0,5
GAGG	e		2	17:08:54.78	18	254				98						0			0,8	0
DOSS	e		2	17:08:56.43	27,7	179				95						0			0,7	0,8

22/10/2013	17:13:51,20	46,1308	11,1858	5,82	0,6		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	1	17:13:53.88	14,6	128				112						0			0,4	0,6
GAGG	e	d	1	17:13:54.49	18,3	253				108						0			0	0,6
DOSS	e	c	2	17:13:56.07	27,9	180				102						0			0	0,8
ZIAN	e	c	1	17:13:56.98	33,3	61				100						0			0	0,3

23/10/2013	02:26:30,92	46,5865	10,9625	1,61	0,8		0	0	0,2	90	0	0,2	C	0,07	0	NATURNO (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		3	02:26:34.65	21,5	161	37,4	2	94							0,05		-0,07	0,4	0,3	
CARE	i	c	1	02:26:35.62	27,2	228	39	3	93							0,05		-0,2	0,8	0	

QUATERLY BULLETTIN *October-December 2013*

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			

23/10/2013	09:17:45,95	45,6940	10,6521	12,69	1,2		0	0	1	90	0	1	C	0,12	0	GARGNANO (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	09:17:51.92	32	356	56,58	2	112							0,09		0,16	0,9	1,2	
DOSS	e	d	2	09:17:54.20	46,6	64	60,47	3	105							-0,01		-0,18	1,2	1,3	

23/10/2013	10:23:05,45	46,1378	11,1785	6,46	1,2		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	10:23:08.31	15,5	129				113						-0,01			1,4	1,4
GAGG	e	c	1	10:23:08.72	18	250				110						0			1	1
DOSS	i	c	1	10:23:10.51	28,7	178				103						0,03			1	1,1
OZOL	e		2	10:23:10.93	31,1	342				102						0,05			1,2	1,1
CARE	e		2	10:23:13.83	48,9	311				98						-0,05			1,1	0

23/10/2013	15:30:03,10	46,1378	11,1813	7,19	1,2		0	0	0,2	90	0	0,2	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	15:30:05.98	15,3	129				115						-0,01			1,1	1,4
GAGG	e	c	1	15:30:06.45	18,2	251				111						-0,01			1,3	1
DOSS	e	c	1	15:30:08.20	28,7	179				104						0,05			1,2	1,1
ZIAN	i	c	1	15:30:08.90	33,2	62				102						-0,02			1,2	1
CARE	e	c	1	15:30:11.59	49,1	311				98						0,01			1,2	0

24/10/2013	06:38:48,82	,	,											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			1	06:38:48.82			51,24	1							33					

24/10/2013	10:10:55,55	46,1328	11,1865	7	0,8		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	e	c	1	10:10:58.32	14,6	128				116						0			0,6	0,8	
GAGG	e		1	10:10:58.92	18,5	253				111						0			0,7	0,6	
DOSS	e		2	10:11:00.50	28,1	180				104						0			0,7	0,7	

24/10/2013	15:42:17,51	46,1369	11,1845	5,49	0,9		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	e		1	15:42:20.25	15,1	129				110						0			0,9	1
GAGG	e		2	15:42:20.79	18,4	251				107						-0,01			0,8	1
DOSS	e		2	15:42:22.48	28,6	179				101						0			0,9	0,8
ZIAN	e		2	15:42:23.24	33,1	62				99						0			0,6	0,5

25/10/2013	03:20:33,73	,	,													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
ZIAN			2	03:20:33.73			49,14	3							114					
PANI			3	03:20:35.46			52,11	2							111					
DOSS			2	03:20:37.77			54,66	2							109					
GAGG			2	03:20:40.53			58,89	2							109					
OZOL			2	03:20:40.58			59,97	2							111					
CARE			2	03:20:44.63			66,16	1							107					
RONC			3	03:20:45.34			66,42	2							110					

QUATERLY BULLETTIN *October-December 2013*

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				

25/10/2013	06:59:35,25	,	,											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	e	c	1	06:59:35,25			36,53	1							29					

25/10/2013	09:17:27,80	,	,											10	FRIGNANO				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	09:17:27.80			50,51	2							170							
DOSS			2	09:17:28.56			53,27	3							168							
RONC			2	09:17:29.65			54,49	2							169							
GAGG			2	09:17:31.35			58,35	2							169							
PANI	i	d	1	09:17:31.59			54,07	3							169							
ZIAN			2	09:17:35.54			61,28	2							168							
OZOL			2	09:17:36.04			62,85	2							168							
CARE			2	09:17:36.47			62,45	2							167							

25/10/2013	12:24:54,90													10	PIANURA PADANA LOMB.					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	
VARA			2	12:24:54.90			70,37	2							97						
DOSS			2	12:24:56.43			70,71	2							92						
PANI			3	12:24:58.76			75,81	2							95						
GAGG			2	12:24:59.30			76,55	2							93						
RONC			3	12:24:59.39			75,31	2							94						
ZIAN			3	12:25:03.00			22,81	2							96						
OZOL			3	12:25:04.92			25,62	3							93						
CARE			3	12:25:05.65			26,49	3							94						

25/10/2013	12:59:06,02	45,7288	11,0081	10,98	1,4		0	0	0,4	90	0	0,4	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	i	d	1	12:59:09.21	13,9	321	11,4	2	128							0,17		0	1,8	1,6	
DOSS	i	d	0	12:59:10.31	21,9	40	13,27	2	117							0,1		-0,2	1,4	1,1	
GAGG	e		2	12:59:13.28	39,6	354	18,33	2	105							0,23		-0,2	1,1	1,2	
PANI	e		2	12:59:13.85	43,9	35	19,91	3	104							0,1		0,13	0,9	1,1	
ZIAN	e		2	12:59:18.90	74,5	35			98							0,01			1,3	1,4	
CARE	e		2	12:59:20.24	81	343			98							0,25			1,4	1,4	

25/10/2013	15:24:55,98	46,1091	11,2471	8,99	0,9		0	0	1,5	90	0	1,5	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	1	15:24:58.19	9,4	134				134						-0,01			0,9	1,1
GAGG	e		2	15:24:59.93	22,5	263				112						-0,19			0,9	0,9
DOSS	e		2	15:25:00.86	25,9	190				109						0,19			0,7	0,7
ZIAN	e	c	1	15:25:01.48	30,7	53				106						0,03			0,8	0,8

QUATERLY BULLETTIN *October-December 2013*

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				

25/10/2013	23:09:01,97	,	,											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	c	2	23:09:01.97			42,55	1							219					
PANI	e	c	2	23:09:02.16			42,97	1							223					
ZIAN			2	23:09:02.74			44,43	2							221					
VARA			2	23:09:03.79			46,63	2							222					
GAGG	e	c	2	23:09:05.46			49,63	2							221					
RONC			2	23:09:07.19			52,78	2							219					
OZOL	e	c	1	23:09:07.44			54,03	1							221					
CARE			2	23:09:10.46			57,58	1							215					

26/10/2013	15:08:46,20	45,8175	11,2741		9,25	1		0	0	0,4	90	0	0,4	B	0,13	0	POSINA (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	i	d	0	15:08:48.64	9,6	316	50,33	2	134							0,16		0,07	1,1	1
PANI	i	c	1	15:08:51.09	26,4	10	54,45	2	109							0,11		-0,25	0,9	0,9
VARA	e	d	1	15:08:51.45	29,4	272	55,47	2	107							-0,01		-0,1	1,1	1,1
GAGG	e		2	15:08:52.91	38,4	320	58,1	2	104							-0,04		-0,11	0	0
ZIAN	e		1	15:08:55.84	55,7	24			99							-0,01			0,9	1,2

26/10/2013	17:51:45,74	,	,												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	17:51:45.74			46,71	1							21					

26/10/2013	21:40:14,13	,	,												10	APPENNINO MODENESE	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			3	21:40:14.13			33,06	2							81					
DOSS			3	21:40:14.25			34,69	1							84					
PANI			3	21:40:18.80			40,35	3							82					
ZIAN			3	21:40:20.87			48,32	3							80					

27/10/2013	07:26:59,70	,	,												10	APPENNINO LIGURE	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			2	07:26:59.70			83,76	2							158					
VARA			3	07:27:00.48			27,43	3							158					
DOSS			2	07:27:02.49			32,18	3							158					
GAGG			2	07:27:02.81			31,09	3							158					
PANI			2	07:27:05.23			35,71	3							157					
CARE			2	07:27:05.28			31,97	3							161					
OZOL			2	07:27:07.46			36,71	3							157					
ZIAN			2	07:27:09.32			44,31	3							160					

28/10/2013	14:08:37,58	46,1496	11,1736		0,89	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	c	1	14:08:40.41	16,6	131			93							-0,02			0,5	0,7
GAGG	e		2	14:08:40.68	18,2	246			93							-0,01			0	0,8
DOSS	e		2	14:08:42.74	30	178			92							0,03			0	0

QUATERLY BULLETTIN *October-December 2013*

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				

29/10/2013	13:18:13,28	,	,											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		2		13:18:13.28			16,03	1							30					

29/10/2013	22:59:44.33	,	,											10	AUSTRIA	M 2.3(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		22:59:44.33			56,5	1							115					
OZOL		2		22:59:45.16											117					
ZIAN		1		22:59:49.56			70,77	2							118					
PANI		3		22:59:52.74			74,16	2							116					
GAGG		3		22:59:52.75			73,57	3							114					
DOSS		3		22:59:55.47			78	2							113					

30/10/2013	11:15:54,04	46,1096	10,9811	10,14	1		0	0	0,1	90	0	0,1	C	0	0	VEZZANO (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	0	11:15:55.87	3,4	211	57,29	2	162							0		0	1	0,9	
DOSS	e		2	11:15:59.48	30,2	148	63,73	3	109							0		0	0,8	0,9	
VARA	e		2	11:15:59.81	32,2	192				107						0			1,1	0	

30/10/2013	15:39:19,01	,	,											10	APPENNINO LIGURE	M 2.9(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	d	1	15:39:19.01			44,37	3							156					
RONC	e	d	1	15:39:19.17			44,71	2							156					
DOSS			2	15:39:21.53			50,58	3							156					
GAGG	e	d	1	15:39:22.18			47,52	3							155					
PANI	i	d	2	15:39:24.24			51,45	2							155					
CARE	e	d	1	15:39:25.22			55,86	3							156					
OZOL			2	15:39:26.83			56,78	3							155					
ZIAN			3	15:39:28.18			58,29	3							157					

31/10/2013	01:50:06,07	,	,											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	i	d	0	01:50:06,07			6,8	1							20					

31/10/2013	05:48:16,81		,		,											10	APPENNINO LIGURE				M 2.4(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		
RONC		2		05:48:16.81												125						
VARA		3		05:48:18.03			44,09	3								124						
DOSS		3		05:48:19.90			47,42	3								124						
PANI		3		05:48:22.07												124						
CARE		3		05:48:22.41			49,73	3								122						
ZIAN		3		05:48:26.34												124						

31/10/2013	07:16:29,81	,	,											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	e	d	1	07:16:29.81			31,42	1							28					

QUATERLY BULLETTIN *October-December 2013*

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			

31/10/2013	16:12:27,96	46,1596	11,1928	7	1,2		0	0	0	90	0	0	C	0	2	LISIGNAGO (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	16:12:30.99	16,3	138				113						-0,01			0,9	1,2	
GAGG	e		1	16:12:31.58	20	245				109						0			0	1,1	
DOSS	e		2	16:12:33.41	31,1	181				103						0			1	1,3	

31/10/2013	16:16:29,05	46,1406	11,1860	0,98	1,2		0	0	0,3	90	0	0,3	D	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	0	16:16:31.65	15,2	131				94						-0,01			0,9	1,1
GAGG	e		2	16:16:32.19	18,7	250				93						-0,06			1	0
DOSS	e		2	16:16:34.05	29	180				92						0,04			0	0
CARE	e		2	16:16:37.49	49,1	310				91						0,04			1,3	0

31/10/2013	16:26:19,42	46,0525	11,3964	12,89	1		0	0	4,3	90	0	4,3	D	0,2	0	RONCEGNO (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			
PANI	i	c	1	16:26:21.55	4,8	268	23,86	3	160							-0,22		0,25	0,5	0,8			
DOSS	e		2	16:26:24.17	25	220				117						-0,07			0,7	1			
ZIAN	e		2	16:26:24.81	28	27				115						0,12			1	0,7			
GAGG	e		3	16:26:25.97	34,1	276				111						0,32			0	1,2			

31/10/2013	18:46:22.03	46,1953	12,4620	9,01	3,3	3,2	0	0	0,8	90	0	0,8	C	0,13	0	BARCIS (PN)			M 3.1(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		1	18:46:33.94	69,9	277				97						-0,14			3,1	3,2	
DOSS	e		2	18:46:40.13	104,6	250				95						0,15			3,4	3,4	
OZOL	e		3	18:46:41.26	111,1	282				95						0,18			3,3	3,4	

31/10/2013	22:10:23,87	,	,											10	ALPI MARITTIME				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			2	22:10:23.87			59,49	3							176							
VARA	e	d	2	22:10:24.31			60,64	3							175							
DOSS	e	d	2	22:10:26.85			64,99	3							177							
GAGG			3	22:10:26.95			65,38	1							175							
PANI			2	22:10:29.51			68,87	1							174							
CARE			3	22:10:29.74			69,79	3							177							
OZOL	e	d	1	22:10:31.86			73,52	2							174							
ZIAN	e	d	2	22:10:33.60			76,22	2							173							

01/11/2013	04:48:25,18	46,0390	10,5698	7	0,9		0	0	3,6	90	0	3,6	C	0,24	0	BREGUZZO (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	d	1	04:48:26.97	7,7	148	28,33	2	132							0,02		0	0,7	0,7
GAGG	e		2	04:48:30.52	30,5	81	34,69	2	103							0		-0,01	0	0

01/11/2013	07:57:24.67	,	,												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			1	07:57:24.67			25,57	1							23					

QUATERLY BULLETTIN *October-December 2013*

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					

01/11/2013	09:44:03,19	46,0148	11,8240	8,1	1,7	1,6	0	0	0,3	90	0	0,3	B	0,09	0	FONZASO (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	d	1	09:44:09.46	35,4	325	14,17	2	103							0,07		-0,06	1,6	1,8	
DOSS	e		3	09:44:12.10	51,5	253				99						0			1,4	1,5	

01/11/2013	11:08:04,68	46,0073	11,8158	10,02	0,6		0	0	1,8	90	0	1,8	C	0,13	0	FONZASO (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	11:08:11.12	35,7	327	15,74	2	106							0,1		-0,22	0	0,5			

01/11/2013	17:05:07,84	45,8604	11,6423	13,59	1,6	1,8	0	0	0,6	90	0	0,6	B	0,21	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	i	d	1	17:05:14.03	31,9	312	18,2	2	113						34	0,27		-0,18	1,4	1,3
DOSS	i	d	0	17:05:14.48	35,3	274	19,03	3	111						27	0,18		-0,31	1,6	1,6
ZIAN	i	d	0	17:05:16.33	46,6	352	22,11	2	106							0,19		-0,5	1,6	1,5
GAGG	i	d	1	17:05:18.18	58,5	295			103						25	0,08			1,7	1,6
OZOL	e		3	17:05:21.20	75,7	323			100							0,22			1,5	1,3
CARE	e		2	17:05:24.44	96,2	311			98							-0,01			0	1,8

01/11/2013	18:40:00,74	,	,											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			2	18:40:00.74			1,75	1							24							

02/11/2013	03:32:07,38	45,4266	10,0770	10,01	2,5	2,6	0	0	0,9	90	0	0,9	C	0,12	0	ORZIVECCHI (BS)			M 2.3(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		2	03:32:24.57	100,2	60	37,97	3	96						60	-0,04		-0,07	2,5	2,4	
CARE	e		2	03:32:28.09	120,9	23			95						66	-0,03			2,5	2,5	
PANI	e		2	03:32:28.12	120	55			95						74	0,15			2,4	2,4	
OZOL	e		2	03:32:29.95	132,3	35			59							0,15			2,8	2,8	
ZIAN	e		2	03:32:32.31	149,1	51			59							0,03			2,5	2,5	

02/11/2013	22:01:50,60	46,6368	10,4996	5,88	0,3		0	0	4,2	90	0	4,2	D	0,14	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		2	22:01:55.56	28,1	147				102						0,06			0	0	

03/11/2013	02:03:45,41	46,5160	9,9055	16,94	1,2		0	0	3,3	90	0	3,3	D	0,13	0	BEVER [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	i	c	1	02:03:56.24	61,7	99				105						-0,1			1,3	1,3	
OZOL	e		2	02:04:00.93	88,9	98				59						0,08			1	0,9	

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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			

03/11/2013	21:56:19,49	,	,											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
ZIAN		2		21:56:19.49			42,26	2							119					
PANI		2		21:56:24.00			48,41	2							110					
OZOL		2		21:56:24.82			52,2	2							111					
DOSS		3		21:56:26.00			53,53	3							111					
GAGG		3		21:56:27.72			55,9	3							111					
CARE		3		21:56:28.84			58,46	3							110					
VARA		3		21:56:29.61			59,95	3							114					
RONC		3		21:56:33.13											112					

04/11/2013	09:31:19,30	45,4978	10,8545	12,97	1,1		0	0	4,4	90	0	4,4	D	0,21	0	PESCANTINA (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		09:31:26.26	36,6	5				110						0,31			1,2	1	
DOSS	e	3		09:31:27.86	49,8	32				105						-0,25			0	1,3	

04/11/2013	16:04:51,25	46,1401	11,1843	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		16:04:54.11	15,3	130				115						-0,01			0,9	1,1	
GAGG	e	1		16:04:54.64	18,5	250				111						0			1	0,7	
DOSS	e	2		16:04:56.34	28,9	179				104						0,01			1	1	

04/11/2013	17:09:07,68	46,1315	11,1835	5,25	1,1		0	0	0,2	90	0	0,2	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	i	c	1	17:09:10.37	14,7	127				110						0,01			1	1,1	
GAGG	e	c	1	17:09:10.89	18,2	253				106						-0,03			0,9	0,8	
DOSS	i	c	1	17:09:12.54	28	179				101						-0,01			0,9	1,1	
OZOL	e		1	17:09:13.19	31,9	341				99						-0,01			0,9	0,7	
ZIAN	e	c	1	17:09:13.48	33,4	61				99						0,01			1	0,6	
CARE	e		1	17:09:16.19	49,6	311				96						-0,03			1,1	1,3	

04/11/2013	17:22:00,73	46,1308	11,1825	4,83	0,8		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	e		1	17:22:03.38	14,8	127				108						0			0,4	0,6
GAGG	e		1	17:22:03.92	18,1	253				105						-0,01			0,7	0,8
DOSS	e		2	17:22:05.59	27,9	179				100						0,02			0	0
ZIAN	e		1	17:22:06.49	33,5	61				98						-0,03			0,6	0,5

04/11/2013	20:59:32.93		,	,											10	PIANURA PADANA EMIL.				M 2.1(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	20:59:32.93			47,84	1							99								
DOSS			2	20:59:33.78			49,21	2							96								
RONC			3	20:59:36.55			53,86	2							98								
PANI			2	20:59:36.69			53,95	2							98								
GAGG			3	20:59:37.18			54,43	2							97								
ZIAN			2	20:59:40.86			61,5	3							99								
OZOL			3	20:59:42.18			64,07	2							94								
CARE			3	20:59:43.17			64,31	3							95								

QUATERLY BULLETTIN *October-December 2013*

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				

05/11/2013	00:21:28,41	,	,											10	BACINO DI GUBBIO			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		00:21:28.41																
VARA		2		00:21:28.70																
PANI		3		00:21:30.39																
GAGG		3		00:21:32.08			70,41	3												
RONC		3		00:21:32.26																
ZIAN		2		00:21:32.63																
OZOL		3		00:21:36.13			77,42	2												
CARE		3		00:21:37.83			78,65	3												

05/11/2013	08:13:12,82	45,6681	10,2016	13,04	1,5		0	0	3,2	90	0	3,2	D	0,05	0	G. VAL TROMPIA (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		08:13:22.90	56,8	72				103						0,11			1,3	1,2
DOSS	e	2		08:13:26.67	80,3	73				99						-0,06			1,6	1,5

05/11/2013	08:35:53,44	,	,											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		2		08:35:53.44			55,81	1							33					

05/11/2013	13:41:30,08	46,3008	9,9733	8,91	1,2		0	0	0	90	0	0	C	0,03	0	LAGO ALPE GERA (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		13:41:40.05	57,4	76				99						0,04			0	0	

05/11/2013	14:12:59,89	,	,											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	i	d	0	14:12:59.89			60,5	1							27					

06/11/2013	07:09:36,49	,	,											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	07:09:36,49			37,1	0							30					

06/11/2013	19:42:26,70	,	,											0	OZOL,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
OZOL	e	c	1	19:42:26.70	12,5	90	28,62	2	120							0		0	0	0,1
CARE	e		1	19:42:27.06	14,9	279	29,28	2	116							0		0	0	0

07/11/2013	11:16:27,04	46,0503	10,9418	1,8	0,7		0	0	1,4	90	0	1,4	C	0,06	0	CALAVINO (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	e	c	1	11:16:27.77	3,9	19				115						-0,01			0,8	0,7
DOSS	e		1	11:16:31.61	26,9	135	35,26	3	94							-0,04		0,01	0	0,9
PANI	e		2	11:16:32.40	30,4	90	36,23	3	93							0,15		-0,08	0	0,4

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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			

07/11/2013	15:50:54,70	46,1471	11,1896	6,29	1		0	0	0	90	0	0	C	0,07	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	15:50:57.61	15,5	134				112						0,05			1	1
GAGG	e	c	2	15:50:58.04	19,2	248				108						-0,11			1,1	0
DOSS	e		2	15:50:59.85	29,7	180				102						-0,04			1,1	1
CARE	e		2	15:51:03.20	48,9	309				97						0,07			0	0

08/11/2013	00:31:00,33	45,5208	10,5256	5,88	1,8	2,3	0	0	1,4	90	0	1,4	C	0,17	0	MANERBA GARDA (BS)		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
RONC	e		2	00:31:09.37	51,7	8	16,39	3	96							0,15		0,23	1,9	1,9
DOSS	e		2	00:31:11.41	65,3	52				95					57	-0,12			1,8	1,7
GAGG	e		2	00:31:12.82	71	28				95						0,31			0	1,6
ZIAN	e		2	00:31:19.95	116,3	44				93						-0,28			1,9	1,9

08/11/2013	04:17:41,92	,	,											10	PIANURA PADANA EMIL.	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			2	04:17:41.92			56,93	1							156					
DOSS			2	04:17:42.00			56,33	1							153					
PANI			2	04:17:45.20			61,92	2							155					
RONC	e	c	1	04:17:45.70			63,72	1							155					
GAGG			2	04:17:46.06			63,87	1							155					
ZIAN			2	04:17:49.00			68,72	1							157					
CARE			2	04:17:52.14			74,35	1							152					

08/11/2013	07:19:22,87	46,4840	10,6840	3,38	1		0	0	0,5	90	0	0,5	C	0,08	0	MONTE CEVEDALE (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	07:19:24.12	6,7	171	25,14	1	117							-0,03		-0,01	1,2	1
RONC	e		2	07:19:32.64	56,1	185				93						0,16			0,9	1,1

08/11/2013	08:34:15,62	,	,											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	08:34:15.62			16,8	1							26					

08/11/2013	09:58:14,58	45,7806	11,0515	10,54	1,1		0	0	0,4	90	0	0,4	B	0,15	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	09:58:17.61	13,1	293	19,77	2	129							0,16		0,09	1,2	1,1	
DOSS	e		2	09:58:17.95	15,4	44	20,3	2	124							0,19		0,06	0,7	0,8	
GAGG	e		2	09:58:20.80	34,4	348	25,62	2	107							0,07		0,09	0,9	0,9	
PANI	e	d	1	09:58:21.32	37,2	36	25,85	2	106							0,13		-0,5	0,7	0,9	

08/11/2013	14:51:19,00	,	,											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	14:51:19.00			20,02	0							30					

QUATERLY BULLETTIN *October-December 2013*

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			

08/11/2013	15:50:16,89	46,1371	11,1805	6,02	1,4	1,1	0	0	0,4	90	0	0,4	C	0,1	2	ALBIANO (TN)			EXPL? 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
PANI	i	c	0	15:50:19.65	15,3	129			111						14	-0,06			1,3	1,7
GAGG	e	c	1	15:50:20.15	18,2	251			108						15	-0,01			1,4	1,5
DOSS	e	c	0	15:50:21.89	28,6	179			102							0			1,3	1,4
OZOL	e		1	15:50:22.45	31,2	341			101							0,12			1,5	1,4
ZIAN	e	c	1	15:50:22.63	33,3	62			100							-0,05			1,4	1,3
CARE	e	c	1	15:50:25.35	49,1	311			97							0,01			1,2	1,2

08/11/2013	16:57:56,56	46,2738	12,5373	7,14	1,5	1,2	0	0	2,29	90	0	2,29	C	0,19	0	CLAUT (PN)			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	
ZIAN	e		2	16:58:09.40	75,1	270				95						-0,05			1,5	1,4	
PANI	e		2	16:58:13.12	96,1	255				94						0,09			1,3	1,6	
DOSS	e		2	16:58:15.54	113,1	247				94						-0,39			1,7	1,8	
OZOL	e		2	16:58:16.74	115,3	277				94						0,44			1,3	1,4	

08/11/2013	18:48:07,00	46,4786	10,5698	5,23	0,4		0	0	1	90	0	1	C	0,11	0	IL GRAN ZEBRU' (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	18:48:09.27	11,5	122	10,79	2	114							0,11		-0,05	0	0,5	
OZOL	e		2	18:48:13.76	38	103	18,42	2	98							0,21		-0,24	0,4	0	

09/11/2013	13:22:59,64	46,5428	10,8335	8,67	1,2		0	0	0,5	90	0	0,5	B	0,18	0	SAN NICOLO' (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	13:23:02.96	16,8	218	5,11	2	117							0,09		-0,28	1,2	1,4	
OZOL	e		2	13:23:04.04	22,8	133	7,14	2	111							0,23		0,07	1	0,8	
GAGG	e		2	13:23:08.76	52	169	15,74	2	99							0,12		0,07	0	0	
ZIAN	e		2	13:23:10.93	63,4	118			98							0,35			0,9	0,8	

09/11/2013	16:11:31,03	,	,											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	16:11:31.03			31,93	0							28					

09/11/2013	16:43:54.30	,	,											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	16:43:54.30			55,32	0							31					

09/11/2013	22:39:22.40	,	,											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	22:39:22.40			23,76	1							27					

09/11/2013	22:46:45.90	,	,											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	22:46:45.90			47,19	1							26					

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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			

11/11/2013	16:26:26,44	45,8295	11,2978	7,15	1,2		0	0	1,7	90	0	1,7	C	0,17	0	POSINA (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	i	d	0	16:26:28.42	10,2	304	30,2	1	125							-0,14		-0,02	1,4	1
PANI	e	d	0	16:26:30.92	24,8	7	34,38	2	106							0,08		0,1	0,9	0,8
ZIAN	e		2	16:26:35.76	53,7	22			98							0,06			1	1
CARE	e		2	16:26:40.06	80,8	325			95							-0,24			0	0

12/11/2013	09:20:58,10	46,0846	10,9761	7,5	0,6		0	0	0,1	90	0	0,1	C	0	0	VEZZANO (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	09:20:59.40	1,4	264	60,42	2	170							0		0	0,1	0,3
PANI	e		2	09:21:03.06	28	98	6,92	2	105							0		0	0,7	0,8
DOSS	e		2	09:21:03.07	28,1	144				105						0			0	0

12/11/2013	09:33:20,38	46,1165	10,9886	5,45	0,7		0	0	0,7	90	0	0,7	C	0,05	0	VEZZANO (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	0	09:33:21.54	4,3	212	22,54	2	141							-0,03		0,04	0,7	0,7
PANI	e		1	09:33:25.22	27,8	105	28,98	2	101							0,01		-0,01	0	0,8
DOSS	e		2	09:33:25.78	30,5	149	29,75	2	100							0,1		-0,06	0	0

12/11/2013	11:08:32,31	46,1869	11,2006	6,53	1,4		0	0	0,5	90	0	0,5	C	0,14	2	CEMBRA (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	0	11:08:35.55	18,3	146			110							-0,09			0,9	1,3	
GAGG	e	c	1	11:08:36.17	22	238			107							-0,06			1,3	1,1	
OZOL	e		1	11:08:36.99	26,6	334			104							-0,01			1,2	0,9	
ZIAN	e	c	1	11:08:37.48	29,7	70			102							-0,03			1,3	0,9	
DOSS	e	c	1	11:08:38.17	34,1	182			101							-0,08			1,6	0	
CARE	e	c	1	11:08:40.43	46,9	304			98							0,02			1,4	0	
RONC	e		2	11:08:41.28	50,2	243			97							0,31			1	1,1	

12/11/2013	12:38:20,14	45,6846	11,0665	8,82	0,9		0	0	4,4	90	0	4,4	D	0,13	0	MONTI LESSINI (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	12:38:24.48	23,7	24				110						0,02			1	0

12/11/2013	14:29:13,02	45,6501	10,7616	7,55	1,7		0	0	1,3	90	0	1,3	C	0,19	0	CAPRINO VERON. (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	14:29:17.05	22,2	28	20,63	3	109							0,03		0,48	1,7	1,8
RONC	i	c	1	14:29:19.62	38,3	344	24,92	2	101							-0,07		0,02	1,6	1,7
DOSS	e		2	14:29:20.62	41,9	52	25,87	2	100							0,32		-0,11	1,6	1,5
PANI	e		2	14:29:24.01	63	45			97							0,15			1,5	1,5

12/11/2013	14:43:40,92	45,6726	10,7513	5,11	1,4		0	0	1	90	0	1	C	0,17	0	BRENZONE (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	c	2	14:43:44.51	20,4	34	47,56	2	104							-0,01		0,23	1,3	1,4
RONC	e	c	2	14:43:47.01	35,7	344			98							-0,07			1,2	1,1
DOSS	e		2	14:43:48.09	41,1	56	53,31	3	97							0,1		-0,21	0	1,2

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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			

12/11/2013	14:54:58,27	45,8006	11,0181	8,41	1,7	2	0	0	0,3	90	0	0,3	B	0,14	0	ALA (TN)			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	
VARA	i	c	1	14:55:00.58	9,9	287	2,32	2	130							0,1		0,11	1,7	1,5	
DOSS	i	d	1	14:55:01.55	15,9	56	3,76	2	118						39	0,2		0,01	1,8	1,7	
GAGG	i	d	1	14:55:03.93	31,8	352	8,14	2	105						28	0,04		-0,13	1,6	1,4	
PANI	i	d	0	14:55:04.88	37,1	41	9,68	3	103							0,11		-0,16	1,4	1,5	
ZIAN	e		2	14:55:09.86	67,6	39			97							-0,06			1,6	1,4	
CARE	e		2	14:55:10.92	73,6	340			97							-0,02			1,4	1,6	

13/11/2013	03:28:18,56	,	,											10	PIANURA PADANA EMIL.				M 2.1(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	03:28:18.56				34,1	2							101					
DOSS		3	03:28:19.02				33,68	2							101					
PANI		2	03:28:21.78				39,13	2							100					
RONC		3	03:28:22.14				40,52	3							99					
GAGG		2	03:28:22.70				40,6	2							100					
ZIAN		2	03:28:25.79				45,75	3							100					
OZOL		3	03:28:28.06				50,03	2							98					
CARE		3	03:28:28.38				50,89	3							102					

13/11/2013	03:59:02,84	45,7115	10,7750	9,02	0,4		0	0	0,3	90	0	0,3	B	0,03	0	BRENZONE (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	03:59:05.91	15,8	37	8,41	2	120								-0,04		0,02	0,5	0,4			

13/11/2013	10:23:25,44	,	,											10	PIANURA PADANA EMIL				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	10:23:25.44			40,77	1							132					
DOSS	i	d	1	10:23:25.75			40,37	2							128					
PANI	e	d	2	10:23:28.87			45,68	2							129					
RONC			2	10:23:29.16			47,3	2							129					
GAGG	i	d	1	10:23:30.06			47,2	1							129					
ZIAN			2	10:23:33.36			52,06	2							131					
OZOL			3	10:23:34.86			56,91	1							128					
CARE	i	d	1	10:23:35.95			57,98	1							129					

13/11/2013	15:46:59,75	46,1225	11,2320	4,01	1		0	0	0	90	0	0	C	0	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	15:47:01.79	11,3	135				110						0			0,8	1
GAGG	e		2	15:47:03.50	21,6	258				101						0			1	1
DOSS	i	c	1	15:47:04.44	27,2	187				98						0			1,1	1
ZIAN	e		2	15:47:05.05	30,8	56				97						0			1	0

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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			

14/11/2013	09:34:35,22	46,0896	11,0166	3,03	1,1		0	0	0,5	90	0	0,5	B	0,17	0	TERLAGO (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	0	09:34:35.93	4,5	261	36,98	2	124							-0,22		0,1	1,3	1,2			
PANI	e	d	1	09:34:39.48	25	100			97							-0,04			0,9	0,9			
DOSS	e		1	09:34:39.62	26,9	150	43,73	2	96							-0,22		0,28	1,1	1,3			
VARA	e		2	09:34:40.72	30,8	198			96							0,22			1,1	1,1			
RONC	e		2	09:34:41.05	32,8	248	45,53	2	95							0,2		0,28	0,9	0,9			
OZOL	e		2	09:34:41.35	35	4	46,16	2	95							0,13		0,26	1,2	0,9			
CARE	e		2	09:34:42.86	44,6	327	48,7	2	94							0		-0,13	1,1	1,3			

14/11/2013	11:35:11,00	,	,											10	ZONA GENOVA	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
RONC		2		11:35:11.00			38,42	3							163					
VARA		2		11:35:11.12			40,55	3							165					
DOSS		2		11:35:13.56			42,65	3							162					
GAGG		2		11:35:14.01			42,82	3							162					
PANI		2		11:35:16.13			44,59	2							161					
CARE		2		11:35:16.49			48,25	3							162					
OZOL		2		11:35:18.69			49,24	2							161					
ZIAN		2		11:35:20.42			53,5	3							165					

14/11/2013	11:54:47,81	46,1296	11,1916	4,94	0,7		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	1	11:54:50.37	14,1	128				109						0,01			0,3	0,2
GAGG	e		2	11:54:51.11	18,7	254				105						-0,01			1	0,9
DOSS	e		2	11:54:52.63	27,7	180				100						0			0	0
ZIAN	e	c	2	11:54:53.47	33	60				99						-0,04			0,7	0,6

14/11/2013	11:56:48,95	,	,											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	11:56:48.95			50,05	1							28					

14/11/2013	12:29:00,06	45,5088	10,8596	2,87	1		0	0	1,5	90	0	1,5	D	0,12	0	SAN PIETRO CAR. (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		3	12:29:06.36	35,4	5				95						0,23			1	0,8
DOSS	e		2	12:29:08.49	48,6	32	14,75	3	93							0,11		-0,12	0	0

15/11/2013	10:24:17,32	46,0721	11,0028	4,45	1,1		0	0	0,7	90	0	0,7	B	0,19	0	VEZZANO (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	10:24:18.11	3,6	290	19,15	2	141							-0,19		0,08	1,1	1,1			
PANI	e	d	2	10:24:21.68	25,8	95	25,57	2	100							-0,11		0,28	0,8	0,9			
DOSS	e		2	10:24:21.69	25,8	146			100							-0,1			0	1,1			
OZOL	e		2	10:24:23.75	37	6	28,93	2	97							0,06		0,27	1,2	0,9			
CARE	e		2	10:24:24.95	45,7	329	31,06	2	96							-0,22		-0,23	1,2	1,3			

QUATERLY BULLETTIN *October-December 2013*

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			

15/11/2013	13:16:06,20	45,7440	11,0716	9,5300	0,9		0	0	0,6	90	0	0,6	B	0,12	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	13:16:09.59	16,4	304	12,05	2	120							0,15		0,08	0,9	0,6
DOSS	e	d	1	13:16:09.77	17,7	31	12,19	2	118							0,14		-0,11	0	0
GAGG	e		2	13:16:13.13	38,7	347	18,09	2	104							0,11		-0,25	0	0

15/11/2013	16:00:26,20	46,1325	11,1848	5,72	1,1		0	0	0,2	90	0	0,2	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	e	c	1	16:00:28.90	14,7	128			111							0			0,9	1,1
GAGG	e	c	1	16:00:29.47	18,3	253			107							-0,01			1	0,9
DOSS	e	c	1	16:00:31.12	28,1	179			102							0,02			1,2	1,1
ZIAN	e	c	1	16:00:31.96	33,3	61			100							-0,01			0,8	0,8
CARE	e		1	16:00:34.73	49,7	311			97							-0,02			1,2	1,4

15/11/2013	20:39:19,30	,	,												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			2	20:39:19.30			32,6	1							79					
ZIAN	e	c	2	20:39:19.81			33,31	1							79					
CARE			2	20:39:20.93			35,92	2							81					
PANI	i	c	2	20:39:24.22			41,44	1							78					
GAGG			3	20:39:25.43											77					
DOSS			2	20:39:27.41			46,79	1							78					
VARA			3	20:39:29.27			50,75	3							76					

16/11/2013	04:16:06,47	46,0528	10,7441	6,08	0,7		0	0	0,9	90	0	0,9	C	0,07	0	MONTAGNE (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	0	04:16:08.81	12,3	230	10,67	2	116							-0,01		0,01	0,1	0	
GAGG	e		2	04:16:09.47	16,9	78	12,02	2	110							-0,08		0,07	0	1,1	

16/11/2013	10:27:26,41	,	,											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	0	10:27:26.41			26,9	2							20					

16/11/2013	13:38:44,43	,	,											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	i	c	0	13:38:44.43			46,01	0							27					

16/11/2013	23:58:13,11	46,4968	10,4601	4,45			0	0	0,9	90	0	0,9	C	0,11	0	IL GRAN ZEBRU' (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	23:58:16.77	19,9	114	19,15	2	103							0,17		-0,17	0	0

17/11/2013	05:13:30,56	,	,											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	05:13:30.56			32,86	2							29					

QUATERLY BULLETTIN *October-December 2013*

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			

17/11/2013	06:12:03,07	46,8688	11,3468	13,43	1,5	1,2	0	0	1	90	0	1	C	0,27	0	VIPITENO (BZ)			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	
OZOL	e		2	06:12:13.26	56,5	204	20,41	2	103						19	0,26		-0,33	1,6	1,3	
CARE	e	c	1	06:12:15.06	70,1	225			101							-0,21			0	1,4	
ZIAN	i	d	1	06:12:15.18	67,9	166			101							0,27			1,6	1	
PANI	e		2	06:12:19.02	90,9	181			98							0,23			1,5	1,6	
GAGG	e		2	06:12:19.34	92,3	199			98							0,33			0	0	
DOSS	e		2	06:12:22.14	110,6	186			59							0,14			1,9	1,8	

17/11/2013	06:57:37,50	46,8766	11,3451	13,41	1,4		0	0	1	90	0	1	C	0,28	0	VIPITENO (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	d	1	06:57:47.80	57,2	203				103						0,26			1,2	1
CARE	e		1	06:57:49.60	70,6	225				101						-0,18			1,4	1,6
ZIAN	e		1	06:57:49.70	68,8	166				101						0,22			1,5	1
PANI	e		2	06:57:53.56	91,8	180				98						0,2			1,2	1,5
GAGG	e		2	06:57:53.86	93	199				98						0,3			1,7	0

17/11/2013	14:07:36,81														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	14:07:36.81											130					
VARA			2	14:07:37.27			85,97	3							133					
PANI			3	14:07:38.88			86,66	3							132					
GAGG			3	14:07:40.68											128					
ZIAN			2	14:07:40.77											133					
OZOL			3	14:07:44.46			97,12	3							126					
CARE			3	14:07:46.67											127					

18/11/2013	04:00:12,37	46,7200	9,9991	1,54	1,4		0	0	0,9	90	0	0,9	D	0,07	0	ALP GRIALETSCHE [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	04:00:23.17	62,8	122				91						0,07			0	1,4
OZOL	e		2	04:00:27.35	88	114				91						-0,07			1,2	1,2

18/11/2013	11:11:54,27	46,1403	11,1803	1,85	0,8		0	0	0	90	0	0	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	e	c	0	11:11:56.90	15,5	130				97						-0,04			0,3	0,7	
GAGG	e		2	11:11:57.35	18,3	250				96						-0,05			0,8	0,8	
DOSS	e		2	11:11:59.28	28,9	179				94						0,06			0	1	

18/11/2013	11:15:43,80	46,1856	11,1985	4,53	1,3	1,2	0	0	0,3	90	0	0,3	C	0,08	2	CEMBRA (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			
PANI	i	c	1	11:15:47.03	18,3	145				104					13	0			1,2	1,5			
GAGG	e	c	1	11:15:47.63	21,7	239				102					14	0,03			1,4	1,2			
OZOL	e	c	1	11:15:48.39	26,7	335				100						-0,05			1,4	1,3			
ZIAN	i	c	1	11:15:48.95	29,9	70				99						-0,02			1,4	1,3			
DOSS	i	c	1	11:15:49.65	34	181				98					24	-0,01			1,3	1,2			
CARE	e		1	11:15:51.85	46,9	305				96						0			0	1,2			
VARA	e	c	2	11:15:51.89	46,3	210				96						0,13			1,3	1,1			

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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			

18/11/2013	15:42:01,87	46,1341	11,1848	0,66	0,9		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	15:42:04.40	14,8	129				93							-0,01			0,8	0,7
GAGG	e	2	15:42:05.01	18,4	252				92							0			0,9	0
DOSS	e	2	15:42:06.71	28,3	179				91							0,01			1	0,9

19/11/2013	10:12:59,82	46,0776	11,0086	3,66	1,2		0	0	0,6	90	0	0,6	C	0,16	0	VEZZANO (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	0	10:13:00.44	3,9	280	1,56	2	133							-0,3		0,11	1,2	1,2	
PANI	e		2	10:13:04.10	25,4	97	7,84	2	98							-0,11		0,21	0,9	1,1	
RONC	e		2	10:13:05.34	31,8	250			97							0,05			1,1	1	
OZOL	e		2	10:13:06.00	36,4	5	11,17	3	96							-0,07		0,23	1,1	1	
CARE	e		2	10:13:07.41	45,4	328	13,56	3	95							-0,2		-0,13	0	1,4	

19/11/2013	22:02:02,52	46,3068	12,6245	9,9400	1,4		0	0	2,4	90	0	2,4	C	0,11	0	CLAUTANA (PN)			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		22:02:16.67	81,9	268				97						0,06			1	0
DOSS	e	2		22:02:23.27	120,8	247				95						0,04			0	1,8

20/11/2013	09:43:20,50	46,3525	10,8208	12,22	1,1		0	0	0,8	90	0	0,8	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	i	d	0	09:43:23.71	12,4	310	25,83	2	135							0,23		0,03	0,8	0,8	
OZOL	e		2	09:43:24.13	18,6	72	26,91	2	123							-0,18		-0,37	0,8	0,6	
GAGG	e		2	09:43:26.57	31,7	160	30,76	2	111							0,26		-0,08	0	1,2	
RONC	e		2	09:43:28.34	44	200			106							0,03			0,8	0,7	
PANI	e		2	09:43:29.95	51,9	130			103							0,33			0,9	0	

20/11/2013	16:27:01,48	46,1391	11,1830	6,32	1,4	1,3	0	0	0,2	90	0	0,2	B	0,05	2	ALBIANO (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	
PANI	i	c	0	16:27:04.31	15,3	130				112					14	0			1,3	1,5	
GAGG	i	c	1	16:27:04.78	18,4	250				109					17	-0,03			1,2	1,2	
DOSS	i	c	1	16:27:06.55	28,8	179				102					21	0,02			1,4	1,3	
OZOL	e		2	16:27:06.92	31,1	341				102						0,02			1,4	1,2	
ZIAN	i	c	1	16:27:07.25	33,1	63				101						0,01			1,3	1	
CARE	e	c	1	16:27:09.95	49,1	310				97						0,01			1,3	0	

20/11/2013	18:43:50,76	46,0486	10,5506	3,76	0,4		0	0	0,8	90	0	0,8	C	0,03	0	DAONE (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		1	18:43:52.49	9,4	144				112						0			0,3	0,2	

20/11/2013	21:51:09,09	46,2131	10,5813	3,04	1,3		0	0	0,4	90	0	0,4	C	0,1	0	SPIAZZO (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	21:51:13.40	25,1	21	16,7	2	97							-0,01		-0,09	0	0
RONC	e		2	21:51:13.75	26	173	17,12	2	97							0,18		0,06	0,9	1,3
GAGG	e	c	1	21:51:14.73	32,5	116	19,19	2	95							0,06		0,16	0	0
OZOL	e	c	1	21:51:16.22	41,9	60			94							-0,06			0,9	0,7

QUATERLY BULLETTIN *October-December 2013*

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				

21/11/2013	05:47:51,89	,	,											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		2	05:47:53.02	25,3	13	56,26	2	90							0,05		-0,09	1	1

21/11/2013	07:15:47,79	,	,											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	e	c	1	07:15:47.79			48,97	1							24					

21/11/2013	10:05:27,16	,	,											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			2	10:05:27.16			28,86	2							27					

21/11/2013	10:34:43,05	,	,											10	APPENNINO LIGURE				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	d	1	10:34:43.05			66,03	3														
VARA			2	10:34:45.49			68,73	3														
GAGG	e	d	2	10:34:46.16			74,82	3														
DOSS			3	10:34:46.20			75,55	2														
CARE	i	d	2	10:34:48.44			75,27	3														
PANI			2	10:34:49.04			78,4	2														
OZOL			3	10:34:50.10			82,81	3														
ZIAN			2	10:34:56.77																		

21/11/2013	10:37:18,06	,	,											10	APPENNINO LIGURE				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
RONC	i	d	0	10:37:18.06			40,9	2							176					
VARA			2	10:37:18.75			44,78	2							177					
GAGG	e	d	1	10:37:21.16			48,99	2							176					
DOSS	e	d	1	10:37:21.21			49,08	2							176					
CARE	e	d	2	10:37:23.16			50,03	3							174					
PANI	i	d	1	10:37:23.86			53,67	2							173					
OZOL			2	10:37:25.22			57,63	2							174					
ZIAN			2	10:37:27.72			63,4	2							175					

21/11/2013	10:40:49,42	,	,											10	APPENNINO LIGURE	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
RONC			2	10:40:49.42			72,25	2							112					
VARA			3	10:40:51.46			74,84	2							112					
DOSS			3	10:40:53.12			82,01	3							115					
CARE			3	10:40:54.72			83,14	3							116					

22/11/2013	10:28:20,32	45,8113	11,3955	9,22	1		0	0	0,5	90	0	0,5	B	0,15	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	i	c	1	10:28:24.05	17,8	295	26,61	2	117							0,3		0,19	1,2	1,2	
PANI	e		2	10:28:25.42	27	350	28,93	2	109							0,21		-0,09	0,8	0,7	
VARA	e	c	1	10:28:27.12	38,8	272	32,22	2	103							-0,02		-0,24	1,2	0	
GAGG	e	d	2	10:28:28.21	45,4	312	34,13	2	101							-0,04		-0,28	0	1,2	

QUATERLY BULLETTIN *October-December 2013*

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				

22/11/2013	11:46:12,94	46,1319	11,1808	1,18	0,8		0	0	0,6	90	0	0,6	D	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	11:46:15.48	14,9	127				95						-0,02			0,4	0,5
GAGG	e		1	11:46:15.99	18	253				94						-0,03			0	0
DOSS	e		2	11:46:17.78	28	179				92						0,05			0	0,9
ZIAN	e		2	11:46:18.58	33,6	61				92						-0,1			0	0,5

22/11/2013	12:19:21,34	,	,												10	APPENNINO FORLIVESE	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
DOSS	e	c	2	12:19:21.34																
VARA	e	c	1	12:19:21.67																
PANI			2	12:19:23.54																
RONC			2	12:19:24.61																
GAGG	e	c	2	12:19:24.83																
ZIAN			2	12:19:26.89																
OZOL			2	12:19:29.53																

22/11/2013	12:35:32.04	,	,											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			1	12:35:32.04			32,25	1							19					

22/11/2013	19:50:52,63	,	,											10	APPENNINO LIGURE	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	d	1	19:50:52.63			75,61	1							194					
VARA			3	19:50:54.42			78,77	2							195					
GAGG			2	19:50:55.55			83,02	3							191					
DOSS			2	19:50:55.63			84,97	2							190					
PANI	i	d	1	19:50:58.44			87,84	3							193					
OZOL			2	19:50:59.95			92,01	2							193					
ZIAN			2	19:51:02.37			38,09	2							194					

22/11/2013	23:04:35,18	,	,											10	APPENNINO LIGURE				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
RONC	e	d	1	23:04:35.18			58,15	3							217					
VARA			2	23:04:35.92			61,37	2							218					
DOSS	e	d	1	23:04:38.33			67,48	1							210					
GAGG	e	d	2	23:04:38.37											213					
CARE	e	d	2	23:04:40.36			69,21	3							213					
PANI	e	d	1	23:04:40.93			70,56	2							216					
OZOL			3	23:04:42.29			75,94	3							218					
ZIAN			2	23:04:45.03			80,04	2							221					

24/11/2013	16:47:44,07	45,7416	10,7315	12,59	1,1		0	0	0,3	90	0	0,3	C	0,03	0	BRENZONE (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	16:47:51.07	38,7	67	56,46	2	108							0,03		-0,01	0	1,1	
ZIAN	e		2	16:47:59.19	87,6	47				98						-0,02			1,1	1	

QUATERLY BULLETTIN *October-December 2013*

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			

25/11/2013	16:37:45,99	46,5961	10,4376	9,76	1,1		0	0	0,8	90	0	0,8	C	0,09	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		2	16:37:51.09	27,6	134	54,78	2	109							0,1		-0,11	1	1,2		

25/11/2013	20:54:44,90	45,8216	11,8356	13,3	0,6		0	0	0	90	0	0	C	0	0	ASOLO (TV)					
st_name	p_rem	m	w_p	time_s	dist	azm	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	20:54:53.85	50,7	277				105						0			0	0	
ZIAN	e		2	20:54:54.53	54,8	337				104						0			0	0,7	

26/11/2013	11:41:32,32	46,0798	11,0140	4,26	1,3		0	0	0,7	90	0	0,7	B	0,17	0	VEZZANO (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	e	c	1	11:41:33.06	4,3	275	34,31	2	135							-0,28		0,15	1,5	1,5			
PANI	e		2	11:41:36.72	25	97	40,2	2	100							0,06		0,16	1	1,1			
DOSS	e		2	11:41:36.77	26	149			99							-0,05			1,1	1,2			
VARA	e		2	11:41:37.50	29,7	198			98							0,06			1,5	1,5			
CARE	e		2	11:41:40.04	45,4	327	46,17	3	95							-0,08		-0,03	0	1,4			
ZIAN	e		2	11:41:40.28	47,7	63			95							-0,22			1	0,9			

27/11/2013	20:21:18,49	,	,											10	PIANURA PADANA EMIL.	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			2	20:21:18.49			34,45	2							121					
VARA	e	c	1	20:21:18.51			34,21	2							122					
PANI			1	20:21:21.45			39,4	1							121					
RONC	e	c	1	20:21:22.25			41,42	1							121					
GAGG			2	20:21:22.90			40,85	1							122					
ZIAN			2	20:21:25.32			44,92	1							122					
OZOL	e	c	1	20:21:27.89			50,72	1							120					
CARE			3	20:21:28.99			52,54	2							121					

28/11/2013	02:38:11,48	45,8545	11,2945	15,26	1,6	1,8	0	0	0,4	90	0	0,4	B	0,17	0	LASTEBASSE (VI)			M 1.5(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	d	0	02:38:14.74	8,7	289	16,96	2	150						23	0,26		0,14	1,8	1,8	
PANI	i	d	0	02:38:16.22	22,1	8	19,74	2	125						33	0,16		0,1	1,6	1,4	
VARA	i	d	0	02:38:17.58	31,1	264	21,87	2	116							0,19		-0,14	1,6	1,6	
GAGG	i	d	1	02:38:18.34	36,4	314			113							0,12			1,4	1,2	
ZIAN	i	d	1	02:38:20.62	51,3	24			107							0			1,7	1,8	
RONC	e		2	02:38:20.92	54	285			106							-0,14			1,4	1,6	
OZOL	e	c	2	02:38:22.74	63,8	343			103						30	0,04			1,6	1,4	
CARE	e		2	02:38:25.21	78,4	324			101							0,08			0	0	

28/11/2013	08:13:04,91	,	,											10	VAL DI TARO				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			2	08:13:04.91			22,4	2							113							
RONC			2	08:13:05.87			24,24	2							112							
DOSS			3	08:13:07.01			25,41	3							109							
GAGG			3	08:13:07.74			27,8	3							110							
PANI			2	08:13:10.09			30,03	2							110							
CARE			2	08:13:11.85			35,54	3							107							
ZIAN			3	08:13:14.41			37,61	2							110							

QUATERLY BULLETTIN *October-December 2013*

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			

28/11/2013	11:15:31,87	46,0573	10,9100	7	0,9		0	0	1,6	90	0	1,6	C	0,08	0	LOMASO (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	11:15:33.28	4,8	52				146						-0,03			1	1	
DOSS	e		2	11:15:36.95	29,2	132	41,13	3	103							-0,06		0,11	1,1	0	
PANI	e		2	11:15:37.74	32,9	91	42,02	2	102							0,13		-0,08	0,7	0,8	

28/11/2013	13:57:29,84	46,3926	10,8559	9,52	1,9	1,8	0	0	0,5	90	0	0,5	B	0,23	0	RABBI (TN)				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	
CARE	i	c	0	13:57:32.81	12,7	286	34,63	1	127						28	0,25		-0,05	2	2,3	
OZOL	i	d	0	13:57:32.92	15,1	86	35,06	2	122						33	0,03		-0,21	2,1	2,3	
GAGG	e	d	1	13:57:36.30	35,3	167	41,13	2	105						26	0,21		0,17	1,9	1,7	
RONC	i	c	0	13:57:38.51	49,2	201	45,01	3	101							0,1		-0,08	1,8	2	
PANI	e		2	13:57:39.10	53	136			100							0,05			1,5	1,6	
ZIAN	i	d	1	13:57:39.66	56	103			100							0,11			1,6	1,7	
DOSS	e		2	13:57:40.75	62,5	156			99							0,1			1,6	1,7	

29/11/2013	00:26:38,22	45,7646	10,6813	9,76	0,3		0	0	0,6	90	0	0,6	B	0,06	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	00:26:41.64	18,1	68	44,54	2	118							-0,1		0,06	0,6	0,4			

29/11/2013	11:18:17,29	46,1821	11,1998	8,97	1		0	0	0,2	90	0	0,2	B	0,04	2	CEMBRA (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		1	11:18:20.68	18	144				117						-0,04			0,9	1,2	
GAGG	e	c	1	11:18:21.29	21,6	240				113						0			1,1	1,1	
OZOL	e		2	11:18:22.14	27,1	335				108						-0,03			1	1	
ZIAN	e		1	11:18:22.61	29,9	70				107						-0,02			1,1	1	
DOSS	e	c	1	11:18:23.30	33,6	181				105						0,07			0,9	1	
CARE	e		2	11:18:25.52	47,2	305				101						0,03			0	1,1	

29/11/2013	13:02:33,80	,	,											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	13:02:33.80			37,61	2							27					

29/11/2013	15:23:46,23	46,4258	10,8588	11,91	1,1		0	0	0,4	90	0	0,4	B	0,09	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	15:23:49.25	12,4	269	51,44	2	134							0,08		-0,02	0,7	0,5	
GAGG	e		2	15:23:53.28	38,8	169	58,6	2	107							0,11		0,02	0	1,1	

29/11/2013	18:44:54,20	46,1655	12,3936	1,58	1,4		0	0	0,8	90	0	0,8	D	0,16	0	PUOS D' ALPAGO (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	18:45:05.47	65,3	281				91						0,11			1,2	1,3	
PANI	e		2	18:45:08.58	82,9	261				91						0,22			1,1	1,4	
DOSS	e		2	18:45:11.09	98,6	251				91						0,04			1,6	1,6	

QUATERLY BULLETTIN *October-December 2013*

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			

30/11/2013	01:18:40,70	,	,											10	ZONA BOLOGNA	DOUBLE EVENT
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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		3		01:18:40.70																
VARA		3		01:18:41.36																
RONC		3		01:18:41.56																
GAGG		3		01:18:43.29																
PANI		3		01:18:43.91																
ZIAN		3		01:18:45.62																

30/11/2013	14:11:09,59	45,9926	11,3548	8,7800	0,8		0	0	0,8	90	0	0,8	B	0,1	0	LEVICO TERME (TN)	
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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
PANI	i	d	0	14:11:11.49	6,6	347	13,02	2	143							0,02		0,08	0,4	0,2
GAGG	e	2		14:11:15.20	32,3	288			105							-0,11			1,1	0
ZIAN	e	d	1	14:11:16.06	35,4	27	20,61	2	104							0,24		-0,08	0	0,8

01/12/2013	02:43:19,35	,	,											0	CARE	
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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
CARE	e	d	1	02:43:19.35			20,11	1							24					

01/12/2013	02:50:02,85	,	,											0	CARE	
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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
CARE	e	c	1	02:50:02.85			3	1							13					

01/12/2013	03:11:34,57	,	,											0	CARE	
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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
CARE	e	c	1	03:11:34.57			34,73	1							20					

02/12/2013	00:09:25,25	,	,											10	PIANURA PADANA EMIL.	M 2.4(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	e	c	2	00:09:25.25			40,94	2							118					
DOSS		2		00:09:25.29			40,43	2							116					
PANI		2		00:09:28.25			46,07	1							114					
RONC		2		00:09:29.07			48,15	2							116					
GAGG		2		00:09:29.37			47,95	1							116					
ZIAN		2		00:09:32.22			51,53	2							119					
OZOL		2		00:09:34.45			57,55	1							114					
CARE		3		00:09:35.93			59,33	3							115					

02/12/2013	21:33:50,82	,	,											10	VAL DI TARO	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		2		21:33:50.82			68,2	2							117					
RONC		2		21:33:51.32			69,94	2							117					
DOSS		2		21:33:52.94			71,32	1							118					
GAGG		3		21:33:53.83			73,6	3							118					
PANI		2		21:33:55.92			76,05	1							114					
CARE		2		21:33:57.68			80,99	2							116					
OZOL		2		21:33:58.87			84,07	3							115					
ZIAN		2		21:34:00.11			23,32	2							117					

QUATERLY BULLETTIN *October-December 2013*

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			

03/12/2013	08:06:59,56	,	,											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	e	c	1	08:06:59.56			60,78	2							32					

03/12/2013	13:19:07,24	46,0776	11,0085		4,54	1,4		0	0	0,3	90	0	0,3	A	0,11	0	VEZZANO (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
GAGG	i	c	0	13:19:08.06	3,9	279	9,15	2	139							-0,2		0,09	1,6	1,6
PANI	e		1	13:19:11.60	25,4	97	15,14	2	100							-0,05		0,04	1,4	1,4
DOSS	e	c	1	13:19:11.74	26	148			100							-0,02			1,4	1,5
VARA	e		2	13:19:12.39	29,3	197			99							0,08			1,6	1,6
RONC	e	c	2	13:19:12.81	31,7	250			98							0,09			1,4	1,3
OZOL	e		2	13:19:13.60	36,3	5	18,59	2	97							0,1		0,2	1,5	1,4
CARE	e	d	1	13:19:14.99	45,4	328	20,9	2	96							-0,05		-0,22	1,4	1,6

03/12/2013	22:01:43,71	46,6470	12,3008		6,77	0,9		0	0	1,1	90	0	1,1	C	0,21	0	TRE CIME LAVAR. (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	22:01:55.76	70,1	234			96							0,02			0,8	0

04/12/2013	00:04:03,03	45,8110	10,5068		9,61	1,6		0	0	1,3	90	0	1,3	C	0,18	0	BAGOLINO (BS)		M 1.4(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		1	00:04:07.12	20,9	26	10,26	2	115							0,16		0,23	1,7	1,7
VARA	e	d	2	00:04:08.38	30,3	87			108							-0,09			1,7	1,4
GAGG	e		2	00:04:10.83	46,3	49			102							-0,28			1,4	0
DOSS	e		2	00:04:12.52	53,5	82			100							0,2			1,4	1,4
CARE	e		2	00:04:15.24	69,8	12			98							0,18			1,5	1,4
ZIAN	e		2	00:04:19.70	96,7	58			96							0,05			1,1	1,2

04/12/2013	02:00:00,02	,	,											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	02:00:00.02			0,34	1							19					

04/12/2013	04:14:28,76	45,7565	10,6873		9,38	0,8		0	0	1	90	0	1	B	0,14	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	d	1	04:14:32.01	18	65	34,87	2	118							-0,22		-0,06	0,6	0,6
RONC	e	d	2	04:14:33.49	25,4	349	37,21	2	110							0,1		0,2	0,9	0,8

04/12/2013	04:18:10,83	45,9118	10,8598		8,84	0,8		0	0	0,5	90	0	0,5	B	0,17	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	c	1	04:18:12.87	10	163	14,79	3	132							-0,23		-0,09	1,1	0,9
RONC	e		2	04:18:14.54	19,9	293	17,49	2	114							-0,01		0,03	0,6	0,5
GAGG	e		2	04:18:14.66	20,6	22	17,79	2	113							0,01		0,15	0	0
DOSS	e		2	04:18:15.67	25,8	98	19,16	2	109							0,18		0,04	0	0

04/12/2013	06:10:03,37	,	,											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			1	06:10:03.37			3,65	1							17					

QUATERLY BULLETTIN *October-December 2013*

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			

05/12/2013	03:04:58,95	45,7640	10,6938	7,88	0,9		0	0	0,6	90	0	0,6	B	0,12	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	d	1	03:05:02.04	17,2	66	4,62	2	115							-0,15		-0,09	0,8	0,8
RONC	e		2	03:05:03.53	24,7	347	7,17	2	108							0,14		0,32	0,9	1
DOSS	e		2	03:05:05.93	40,6	71	11,4	2	101							-0,09		-0,13	1,1	0

05/12/2013	03:39:30,55	,	,											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	d	1	03:39:30.55			31,79	0							26					

05/12/2013	05:23:24,46	45,7626	10,6866	9,26	2		0	0	0,4	90	0	0,4	B	0,11	0	VALVESTINO (BS)			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	
VARA	i	d	1	05:23:27.75	17,8	67	30,45	2	118							-0,14		-0,11	2,2	2,1	
RONC	i	d	1	05:23:29.05	24,8	348	32,91	2	110							0,07		0,4	2,4	2,4	
DOSS	e		2	05:23:31.50	41,1	72	37,11	2	103							-0,17		-0,19	2	2,2	
GAGG	e		2	05:23:31.58	41,4	31	37,67	2	103							-0,14		0,28	1,8	1,7	
PANI	e	c	2	05:23:34.79	59,6	57			99							0,01			1,8	1,8	
CARE	e	d	2	05:23:37.17	73,6	1			97							0,03			1,6	1,6	
ZIAN	e		2	05:23:39.56	88,7	50			96							-0,15			1,8	1,8	

05/12/2013	06:32:51,16	45,8466	11,1023	10,49	0,8		0	0	0,8	90	0	0,8	B	0,21	0	TRAMBILENO (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	06:32:53.64	7,7	61	55,31	2	144							0,26		0,2	0,6	0,8	
VARA	e		2	06:32:54.67	16,2	262	57,01	2	123							0,22		-0,01	0,8	0	
GAGG	e		2	06:32:56.49	28,6	337	60,08	2	110							0,13		-0,34	1,1	1,1	
PANI	e	d	1	06:32:56.53	29	38	60,31	2	110							0,11		-0,22	0	0,4	
ZIAN	e		2	06:33:01.51	59,6	37			100							0,01			0,7	0,8	

05/12/2013	09:31:15,93	45,9950	12,1736	10,51	1,5		0	0	0	90	0	0	C	0,27	0	CISON VALMARINO (TV)				
st_name	p_rem	m	w_p	time_s	dist	azm	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	09:31:29.74	77,4	260				98						0,45			0	0

05/12/2013	10:12:06,37	45,7616	10,6851	9,27	1,5		0	0	0,5	90	0	0,5	B	0,12	0	VALVESTINO (BS)			M 1.5(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
VARA	e	c	1	10:12:09.60	17,9	66	12,4	2	117							-0,22		-0,11	1,5	1,4
RONC	e	c	2	10:12:11.03	24,8	349	14,7	2	110							0,13		0,27	1,6	1,7
DOSS	e		2	10:12:13.39	41,3	71	19,28	3	103							-0,21		0,04	1,5	1,6
GAGG	e		2	10:12:13.58	41,6	31	19,55	3	103							-0,07		0,22	1,4	0

05/12/2013	10:16:53,92	,	,											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	d	1	10:16:53.92			55,39	2							30					

QUATERLY BULLETTIN *October-December 2013*

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					

05/12/2013	11:06:52,92	46,1435	11,1780	0,25	1,2		0	0	0,6	90	0	0,6	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	0	11:06:55.62	15,9	130			91							-0,02			1,2	1,2
GAGG	e	c	1	11:06:56.04	18,2	249			91							0,01			1	0,8
DOSS	e		1	11:06:57.86	29,3	178			90							-0,06			0	1,2
ZIAN	e	c	1	11:06:58.53	33,2	64			90							-0,06			1	1
VARA	e		2	11:07:00.11	41,5	212			90							0,1			1,2	1,1
CARE	e		2	11:07:01.20	48,5	310			90							0			0	1,3

05/12/2013	15:47:05,83	46,1335	11,1828	4,7	1,2		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	1	15:47:08.50	14,9	128				107						0			1	1,1
GAGG	e	c	1	15:47:09.04	18,2	252				104						0			1,1	0,9
DOSS	i	c	1	15:47:10.71	28,2	179				99						0			1,2	1
CARE	e		2	15:47:14.32	49,5	311				95						0			1,4	0

05/12/2013	18:43:12,01	,	,											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			2	18:43:12.01			12,67	1							35					

05/12/2013	18:49:52.73	,	,											10	ZONA FORLI'				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		
DOSS			3	18:49:52.73			77,35	2							110							
VARA			3	18:49:54.98			78,11	3							114							
PANI			3	18:49:55.07			81,54	3							109							
GAGG			3	18:49:57.02			84,26	3							109							
ZIAN			2	18:49:57.72			82,14	3							114							
RONC			3	18:49:59.50			85,47	3							110							
OZOL			3	18:50:01.09			33,97	3							109							
CARE			3	18:50:02.47			37,29	3							110							

06/12/2013	10:20:00,63	45,7668	10,6953	8,83	0,9		0	0	0,7	90	0	0,7	B	0,06	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		1	10:20:03.85	17	67				117						-0,05			0,7	0,7		

06/12/2013	11:03:42,09	46,1301	11,1893	5,12	1,1		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	e	c	1	11:03:44.68	14,3	128				110						0			1,2	1,3
GAGG	e	c	1	11:03:45.38	18,6	254				105						0			1,1	0
DOSS	e	c	2	11:03:46.92	27,8	180				100						0			1	0

06/12/2013	11:15:21,36	46,1196	11,0128	7,3	1,3		0	0	0	90	0	0	C	0	0	TERLAGO (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	11:15:22.95	5,8	226	24,21	3	141							-0,01		0,01	1,3	1	
DOSS	e		2	11:15:26.63	29,9	153			104							0			0	0	

QUATERLY BULLETTIN *October-December 2013*

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			

06/12/2013	11:21:30,09	46,3933	11,3408	10,68	1,1		0	0	0,6	90	0	0,6	B	0,06	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	
ZIAN	e	c	1	11:21:34.29	21,5	127	37,41	2	116							0,1		0,02	1,5	1,2	
OZOL	e		2	11:21:34.35	22,3	273	37,59	2	116							0,04		-0,01	0,8	0,6	
DOSS	e		2	11:21:40.11	58,3	192				100						-0,1			1,3	0	

06/12/2013	15:05:26,31	46,3000	9,9225		7	1,4		0	0	0	90	0	0	C	0	0	VAL MALENCO (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	15:05:36.84	61,2	77				97						0			1,5	0		

06/12/2013	15:22:30,40	46,1361	11,1810	0,93	1,2		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	e		2	15:22:32.97	15,2	129				94						-0,04			1	1,2
GAGG	e	c	1	15:22:33.53	18,2	251				93						0,02			1	1
DOSS	e	c	1	15:22:35.18	28,5	179				92						-0,1			0	1,3
ZIAN	i	c	0	15:22:36.06	33,4	62				92						-0,05			1	0,8
VARA	e		2	15:22:37.51	40,9	213				91						0,11			1	1
CARE	e		2	15:22:38.83	49,2	311				91						0,02			1,1	1

06/12/2013	23:11:10,00	,	,											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	e	d	1	23:11:10.00			13,67	1							34					

07/12/2013	18:53:23,87	45,7571	10,6891	9,43	0,8		0	0	0,8	90	0	0,8	B	0,11	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		1	18:53:27.14	17,8	65	29,99	2	118							-0,18		-0,02	0,6	0,7	
RONC	e		2	18:53:28.59	25,4	348	32,23	2	110							0,09		0,12	0,8	0,9	

07/12/2013	20:49:08,62	,	,											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	d	0	20:49:08.62			9,54	1							30					

08/12/2013	16:41:57,76	46,0503	10,5539	3,72	1,2		0	0	0,5	90	0	0,5	B	0,11	0	DAONE (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	d	1	16:41:59.47	9,4	145	60,97	2	112							-0,01		0,14	1,2	1,2
GAGG	e		2	16:42:03.16	31,5	83	7,33	2	97							-0,02		-0,09	1,1	1,4
VARA	e	c	1	16:42:03.94	36,4	133				96						-0,08			1,2	0,8
CARE	e		2	16:42:05.24	43	15	10,62	2	95							0,1		-0,28	1,1	0
OZOL	e		2	16:42:07.23	54,9	44				94						0,07			1	1
ZIAN	e		2	16:42:12.00	81,9	72				93						0,23			1,1	1

08/12/2013	17:58:06,47	46,0270	10,4290	2	1		0	0	0,4	90	0	0,4	C	0,03	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	e		2	17:58:09.24	15,9	109	11,36	2	97							0,04		0,02	1,1	1,3	
GAGG	e		1	17:58:13.58	41,5	81	19,08	2	93							0,01		-0,02	1,2	0	

QUATERLY BULLETTIN *October-December 2013*

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			

08/12/2013	19:42:50,48	46,0258	10,4291	2,25	1		0	0	0,4	90	0	0,4	C	0,05	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	e		2	19:42:53.28	15,8	108	55,38	2	98							0,07		0,04	1,1	1,4	
GAGG	e	d	2	19:42:57.60	41,5	81	63,07	2	93							0,02		-0,05	0	0	
CARE	e		2	19:42:58.87	48,9	25			93							0,02			0	0	

08/12/2013	20:48:58,25	46,0513	10,5503	4,33	1		0	0	0,4	90	0	0,4	B	0,05	0	DAONE (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	d	1	20:49:00.05	9,6	144	1,54	2	114							-0,01		0,07	1	1
GAGG	e		2	20:49:03.78	31,8	84	7,95	2	98							0,05		-0,06	0,9	0,9

08/12/2013	22:56:14,12	46,0523	10,5491	4,26	0,6		0	0	0,7	90	0	0,7	C	0,04	0	DAONE (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		1	22:56:15.94	9,8	144	17,37	2	114							-0,01		0	0,5	0,5	

08/12/2013	22:57:20,16	,	,											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	22:57:20.16			21,5	1							27					

08/12/2013	23:07:48,58	46,0526	10,5518	4,24	0,8		0	0	0,2	90	0	0,2	B	0,04	0	DAONE (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	d	1	23:07:50.39	9,7	145	51,81	2	114							0		0,01	0,7	0,5
GAGG	e		2	23:07:54.07	31,7	84	58,24	2	98							0,03		-0,06	0,8	0,8
VARA	e	c	2	23:07:54.87	36,7	133	59,92	2	97							-0,03		0,09	0,8	0

08/12/2013	23:08:13,01	,	,											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		23:08:13.01			14,1	1							26					

09/12/2013	00:07:15,96	46,0465	10,5495	3,46	0,6		0	0	0,7	90	0	0,7	B	0,1	0	DAONE (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		1	00:07:17.63	9,2	142	19,06	2	111							-0,02		0,1	0,4	0,5			
GAGG	e		2	00:07:21.65	31,9	83	25,55	2	96							0,2		-0,18	0	0			
VARA	e		2	00:07:22.25	36,4	132			95							0,04			0,7	0,6			

09/12/2013	00:10:50,52	46,4503	10,3019	7,26	1,8		0	0	1,4	90	0	1,4	C	0,24	0	VALLE DI DENTRO (SO)				M 1.8(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	i	c	1	00:10:56.12	30,5	95	60,08	2	103							0,24		0,02	2	2	
OZOL	e	c	2	00:11:00.72	57,9	95			97							0,23			1,9	1,8	
RONC	e		2	00:11:00.73	57,8	155	7,85	2	97							0,26		-0,38	1,8	1,9	
GAGG	e		2	00:11:01.91	65	129			96							0,21			1,7	1,6	

QUATERLY BULLETTIN *October-December 2013*

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				

09/12/2013	02:53:31,38	,	,											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	02:53:31.38			32,74	2							26					

09/12/2013	11:42:53,32	46,0525	10,5500	4,34	0,9		0	0	0,8	90	0	0,8	C	0,05	0	DAONE (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	d	1	11:42:55.13	9,8	145	56,61	2	114							-0,02		0,04	0,9	0,7			
VARA	e	c	2	11:42:59.60	36,8	133			97							-0,06			0,9	0,8			

09/12/2013	12:56:32,07	45,7870	11,6801	14,93	1		0	0	0,7	90	0	0,7	C	0,13	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	
DOSS	e		2	12:56:39.29	39,5	285	44,73	3	111							-0,01		-0,21	1	1	
PANI	e		2	12:56:39.42	39,7	318	44,84	2	111							0,09		-0,15	1,1	1	
VARA	e		2	12:56:42.89	61,1	274				104						0,07			1,2	1,1	

09/12/2013	17:39:16,46	,	,												10	CLAUT (PN)				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			2	17:39:16.46			33,38	2							102								
DOSS			2	17:39:19.13			36,22	2							101								
OZOL			2	17:39:19.84			39,22	3							101								
GAGG			2	17:39:21.38			40,03	2							100								
VARA			2	17:39:23.57			42,46	2							102								
CARE			2	17:39:23.80			43,37	2							98								
RONC			1	17:39:26.29			46,46	1							99								

09/12/2013	22:25:15,54	45,6158	11,0485	7,98	1		0	0	0,8	90	0	0,8	C	0,15	0	BOSCOCHIESAN. (VR)	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
VARA	i	d	1	22:25:20.36	26,2	333	24,05	2	107							0,14		0,18	1,2	0,9
DOSS	e	d	1	22:25:21.17	31,3	20	25,15	2	104							0,1		-0,23	1,2	0,8
GAGG	e		2	22:25:24.74	52,4	352				99						0,13			1,1	0,9

09/12/2013	23:08:23.41	,	,											10	PIANURA PADANA EMIL.				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			2	23:08:23.41			37,48	2							135							
DOSS	e	d	1	23:08:23.70			37,35	1							134							
PANI	e	d	1	23:08:26.90			43,55	1							135							
RONC	e	d	1	23:08:27.17			45,31	1							136							
GAGG	e	d	1	23:08:28.04			44,86	2							134							
OZOL			2	23:08:33.03			54,24	1							133							
CARE			2	23:08:34.41			55,54	1							129							

10/12/2013	11:22:27,88	,	,											0	ALA (TN)				M 0.9(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		
VARA			1	11:22:27.88			30,15	1							33							
DOSS			3	11:22:28.35			31,21	1							34							

QUATERLY BULLETTIN *October-December 2013*

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			

10/12/2013	12:50:17,76	46,0791	11,0116	3,32	1,3		0	0	0,7	90	0	0,7	B	0,13	0	VEZZANO (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	12:50:18.45	4,1	277	19,5	2	129							-0,21		0,13	1,4	1,4	
PANI	e		2	12:50:22.14	25,2	97	25,57	3	98							0,04		0,08	1,2	1,2	
DOSS	e		2	12:50:22.21	26	148			97							-0,04			1,2	1,2	
VARA	e		2	12:50:22.93	29,5	198			96							0,09			1,4	1,4	
OZOL	e		2	12:50:24.14	36,2	5			95							0,17			1,3	1,3	
CARE	e		2	12:50:25.43	45,4	328			94							-0,11			1,1	1,4	

11/12/2013	02:32:53,72	,	,											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	02:32:53.72			55,11	1							29					

11/12/2013	05:22:36,79	,	,											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	05:22:36.79			45,19	1							63					
DOSS	e	d	1	05:22:37.49			46,08	1							65					
GAGG			3	05:22:41.06			52,16	2							62					

11/12/2013	06:04:16,25	,	,											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	06:04:16.25			17,79	1							26					

11/12/2013	10:25:56,01	,	,											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	10:25:56.01			57,4	1							25					

11/12/2013	11:40:29,52	46,1428	11,1841	0,87	1		0	0	0,7	90	0	0,7	D	0,08	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	11:40:32.15	15,5	131				93						-0,02			1	1
GAGG	e		2	11:40:32.55	18,6	249				93						-0,16			0,9	0,9
OZOL	e		2	11:40:34.81	30,7	341				92						0,04			1	0,8
VARA	e		2	11:40:36.79	41,7	212				91						0,14			0	0,9

11/12/2013	14:39:21,29	46,0510	10,5528	4,08	1,7		0	0	0,2	90	0	0,2	B	0,04	0	DAONE (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	d	1	14:39:23.05	9,5	145	24,47	2	113							0		0,04	1,8	1,6	
GAGG	e		2	14:39:26.78	31,6	83	30,94	2	97							0,05		-0,04	1,8	1,8	
VARA	e		2	14:39:27.54	36,5	133			96							-0,03			1,4	1,1	

11/12/2013	14:39:29,84	46,0491	10,5546	3,71	1,8		0	0	0,3	90	0	0,3	B	0,06	0	DAONE (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	d	1	14:39:31.56	9,2	145	33,05	2	112							0,01		0,18	1,8	1,6
GAGG	e		2	14:39:35.20	31,5	83	39,44	2	97							-0,06		-0,05	1,8	1,8
VARA	e		2	14:39:35.99	36,3	133			96							-0,09			1,7	1,3
CARE	e		1	14:39:37.27	43,1	15			95							0,03			1,7	1,4

QUATERLY BULLETTIN *October-December 2013*

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				

11/12/2013	14:52:54,37	,	,											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	14:52:54.37			55,77	1							26					

11/12/2013	19:19:51,77	46,0496	10,5523		4,13	0,8		0	0	0,3	90	0	0,3	B	0,05	0	DAONE (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	d	1	19:19:53.50	9,4	145	54,93	2	114							-0,02		0,04	0,6	0,8	
GAGG	e		1	19:19:57.28	31,7	83	61,43	2	97							0,05		-0,05	0	0	
VARA	e	c	2	19:19:57.98	36,5	133			96							-0,06			0	0,8	

11/12/2013	23:33:16,72	46,6979	9,9173		5,26	1,4		0	0	0,8	90	0	0,8	C	0,02	0	ALP FUNTAUANA [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	23:33:28.24	67,1	117				94						0,01			1,4	0	
RONC	e	c	2	23:33:33.22	96,5	146				93						-0,02			1,5	1,5	

12/12/2013	00:59:37,95	,	,											10	SARGANS [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
CARE	e	c	1	00:59:37.95											242					
OZOL			2	00:59:42.01			67,24	3							242					
RONC			2	00:59:43.54											247					
GAGG	e	c	1	00:59:44.85			70,36	3							242					
VARA	e	c	1	00:59:47.68			75,72	1							247					
PANI	e	c	1	00:59:49.35			74,96	1							244					
ZIAN	e	c	2	00:59:49.41			74,24	3							247					
DOSS	e	c	1	00:59:49.68			78,52	3							240					

12/12/2013	02:08:46,76	45,7638	10,6886	8,4400	1		0	0	0,6	90	0	0,6	B	0,11	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	c	1	02:08:49.87	17,6	67	52,62	2	116							-0,22		-0,07	0,9	0,8	
RONC	e	c	1	02:08:51.32	24,7	348	54,9	2	109							0,11		0,21	1,1	1,1	
GAGG	e		2	02:08:53.86	41,2	31			102							-0,1			0	1,2	
DOSS	e		2	02:08:53.99	41	72			102							0,08			1,2	0	

12/12/2013	10:59:49,66	46,1363	11,1811		2,41	1,2		0	0	0,4	90	0	0,4	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	10:59:52.25	15,2	129				99						-0,04			1,1	1,3	
GAGG	e	c	1	10:59:52.81	18,2	251				98						0,02			1	1	
DOSS	e	c	1	10:59:54.47	28,5	179				95						-0,07			1	1,2	
ZIAN	e	c	2	10:59:55.31	33,3	62				94						-0,06			1	0,9	
VARA	e		2	10:59:56.80	40,9	213				93						0,13			0	0	
CARE	e	c	1	10:59:58.07	49,2	311				93						0			1,2	0	

QUATERLY BULLETTIN *October-December 2013*

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					

12/12/2013	11:05:37,51	46,1410	11,1843	4,54	1,4		0	0	0,3	90	0	0,3	B	0,05	2	ALBIANO (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	
PANI	i	c	0	11:05:40.24	15,4	131				106						-0,01			1,6	1,7	
GAGG	i	c	2	11:05:40.73	18,6	250				104						-0,05			1,4	1,2	
DOSS	i	c	1	11:05:42.49	29	179				99						-0,04			1,5	1,4	
OZOL	e		2	11:05:42.89	30,9	341				98						0,04			1,6	1,4	
ZIAN	i	c	1	11:05:43.18	32,9	63				98						0			1,3	1,3	
VARA	e	c	2	11:05:44.78	41,5	212				96						0,13			1,4	1,2	
CARE	e	c	2	11:05:45.90	49	310				95						-0,02			1,2	1,3	

12/12/2013	11:07:00.69	,	,											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	1	11:07:00.69			2,21	1							24					

12/12/2013	11:15:45,37	46,0561	10,9450	5,85	0,8		0	0	1,4	90	0	1,4	C	0,18	0	VEZZANO (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	e		1	11:15:46.33	3,2	19	47,58	2	151							-0,18		0,18	0,8	0,7
VARA	e	d	2	11:15:49.98	25,9	188	53,19	3	103							0,08		-0,25	0,7	0,8
DOSS	e		2	11:15:50.28	27,2	136	53,9	2	102							0,15		0,06	0	0
PANI	e		2	11:15:50.83	30,2	91	54,46	2	101							0,2		-0,26	0,6	0,9

12/12/2013	14:08:53,49	,	,											10	PIANURA PADANA EMIL.	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			2	14:08:53.49			67,79	1							105					
DOSS			2	14:08:54.20			67,38	1							106					
PANI			2	14:08:57.04			73,41	1							105					
RONC			2	14:08:57.48			74,63	1							104					
GAGG			2	14:08:57.89			74,8	1							106					
ZIAN			2	14:09:01.29			19,95	1							107					
OZOL			3	14:09:02.80			24,31	1							104					
CARE			2	14:09:04.35			25,48	1							102					

12/12/2013	14:14:22,38	,	,											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
VARA			2	14:14:22.38			36,4	1							127					
DOSS			3	14:14:22.65			36,09	1							123					
PANI			1	14:14:25.80			42,31	2							123					
RONC			2	14:14:26.30			43,35	1							125					
GAGG	e	d	1	14:14:26.80			43,66	2							123					
ZIAN			2	14:14:30.10			48,75	1							128					
OZOL			3	14:14:32.22			53,32	1							123					
CARE			2	14:14:33.33			54,34	1							122					

12/12/2013	15:30:04,20	46,1358	11,1778	1,33	1,2		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	0	15:30:06.79	15,4	128				95						-0,05			1	1,1	
GAGG	e	c	1	15:30:07.32	17,9	251				94						0,05			0	0,9	
DOSS	i	c	1	15:30:08.98	28,5	178				93						-0,09			1,1	1,1	
ZIAN	e	c	1	15:30:09.87	33,6	62				92						-0,07			0,9	1	
CARE	e	c	1	15:30:12.59	49	311				92						0,01			1,4	1,3	

QUATERLY BULLETTIN *October-December 2013*

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			

12/12/2013	17:14:57,50	45,9721	11,8455	6,99	0,6		0	0	0,4	90	0	0,4	B	0,06	0	SEREN D. GRAPPA (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	17:15:04.39	40,2	327				100						-0,1			0,4	0,4

13/12/2013	11:07:40,64	46,1294	11,1888	3,56	1,2		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	0	11:07:43.13	14,3	128				104						-0,03			1,2	1,4
GAGG	e	c	2	11:07:43.79	18,5	254				101						-0,08			1,2	0,9
DOSS	e		2	11:07:45.37	27,7	180				97						-0,05			0	1,1
ZIAN	e		2	11:07:46.29	33,2	61				96						-0,06			1,3	0,8
VARA	e		2	11:07:47.82	40,6	214				95						0,2			1,1	0

13/12/2013	20:54:12,46	,	,											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	20:54:12.46			12,86	1							26					

13/12/2013	22:06:13,76	,	,											10	MAR ADRIATICO C-SETT				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	22:06:13.76			55,77	2							192					
PANI	e	d	2	22:06:13.78			55,64	2							190					
ZIAN	e	d	2	22:06:13.85											197					
VARA			2	22:06:15.74			58,99	3							194					
GAGG			2	22:06:17.06			62,26	2							190					
OZOL	e	d	2	22:06:18.69			65,07	2							188					
RONC			2	22:06:19.91			67,31	3							190					
CARE			2	22:06:21.97			69,43	3							192					

13/12/2013	23:34:30,05	,	,											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			2	23:34:30.05			70,91	3							181					
ZIAN			2	23:34:30.48											185					
PANI			2	23:34:30.72			72,21	3							180					
VARA			2	23:34:32.30			77,15	3							184					
GAGG			3	23:34:33.52											180					
OZOL			2	23:34:35.11			81,14	3							180					
RONC			3	23:34:36.42											180					
CARE			3	23:34:38.35			86,54	3							178					

14/12/2013	03:57:04,42	,	,											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	03:57:04.42			5,84	1							23					

14/12/2013	03:58:52,91	46,0526	10,5533	4,11	1		0	0	0,6	90	0	0,6	B	0,11	0	DAONE (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	d	1	03:58:54.68	9,6	146	56,16	2	113							-0,03		0,06	0,8	0,6	
GAGG	e		2	03:58:58.46	31,5	84	62,55	2	97							0,11		-0,04	0	0	
CARE	e		2	03:59:00.45	42,8	15	5,76	2	95							0,19		-0,23	1,3	0	

QUATERLY BULLETTIN *October-December 2013*

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				

14/12/2013	04:15:42,13	,	,											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	04:15:42.13			43,55	1							22					

14/12/2013	06:48:57,33	,	,											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	06:48:57.33			57,8	1							23					

14/12/2013	07:53:54,00	,	,											0						
st_name	p_rem	m	w_p	time_s	dist	azm	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	07:53:54.00			55,4	1							28					
GAGG	i	d	1	07:53:57.41			61,43	1							30					
CARE	e	d	1	07:53:57.94			64,43	1							30					

14/12/2013	15:02:18,33	,	,											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	15:02:18.33			19,23	1							29					

14/12/2013	17:36:06,91	46,1023	10,5983		6,58	1,4		0	0	0,6	90	0	0,6	B	0,13	0	VILLA RENDENA (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	d	1	17:36:09.54	13,6	172	11,35	2	116							0,04		-0,16	1,1	1,3
GAGG	e	c	1	17:36:11.67	28	94	15,68	2	103							-0,15		0,03	1,2	1,2
CARE	e		2	17:36:13.47	36,6	12	18,08	2	100							0,2		-0,15	1,3	1,2
OZOL	e		2	17:36:15.37	48,4	46			98							0,11			1,1	1,1
PANI	e		2	17:36:16.83	57,3	96			97							0,07			1,1	1,4

14/12/2013	20:00:54,39	,	,											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	e	c	1	20:00:54.39			56,6	0							23					
DOSS	i	c	0	20:00:55.02			57,6	2							22					

14/12/2013	20:01:19,33	,	,										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	e	c	1	20:01:19.33			21,55	1							26					
DOSS			2	20:01:19.95			22,62	2							28					

16/12/2013	01:26:30,00	,	,											10	SARGANS [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	01:26:30.00			44,49	3							111					
OZOL			2	01:26:35.23			57,67	3							114					
RONC			2	01:26:35.98			53,7	1							113					
GAGG			3	01:26:37.19											112					
VARA			3	01:26:41.21			66,84	2							112					
DOSS			3	01:26:42.57			64,7	3							111					

QUATERLY BULLETTIN *October-December 2013*

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			

16/12/2013	03:17:44,59	45,6801	10,6918	9,47	0,5		0	0	0,8	90	0	0,8	C	0,07	0	GARGNANO (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	03:17:48.67	22,7	44	52,09	2	113							-0,13		0,01	0	0	
DOSS	e		2	03:17:52.43	44,6	60				102						0,05			0	0	

16/12/2013	07:15:07,05	,	,											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		07:15:07.05			8,18	3							24							

16/12/2013	14:09:55,11	46,6851	10,6441	9,1	1,6		0	0	0,8	90	0	0,8	C	0,22	0	VAL MAZIA (BZ)				M 1.5(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	1	14:10:00.29	29,3	172	4,03	2	107							-0,05		-0,4	1,5	1,8	
OZOL	e		2	14:10:02.90	44,3	135	8,57	2	102							0,07		-0,28	1,1	0,9	
RONC	e		2	14:10:08.38	78,3	181			97							-0,2			1,5	1,7	

16/12/2013	17:44:55,61	46,2835	10,0566	7	1,2		0	0	0	90	0	0	C	0,03	0	PIZZO SCALINO (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	17:45:04.50	51,8	72				98						-0,04			1,2	0	

16/12/2013	18:05:16,84	46,0534	10,5541	4,24	1,1		0	0	0,8	90	0	0,8	B	0,11	0	DAONE (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	d	1	18:05:18.65	9,7	147	20,08	2	114							0		0,02	1,1	1	
VARA	i	c	1	18:05:23.13	36,7	134	28,25	2	97							-0,02		0,18	1	0	
CARE	e		2	18:05:24.39	42,7	15	29,69	2	96							0,21		-0,21	1,2	0	

16/12/2013	18:17:36,56	46,0534	10,5506	4,49	0,8		0	0	0,7	90	0	0,7	C	0,05	0	DAONE (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	d	1	18:17:38.39	9,8	145	39,86	2	115							-0,01		0,02	0,6	0,6	
VARA	e	c	1	18:17:42.87	36,8	133			97							-0,03			0	0,8	

16/12/2013	18:26:03,36	46,0515	10,5465	4,79	0,9		0	0	0,7	90	0	0,7	C	0,05	0	DAONE (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	d	1	18:26:05.22	9,8	143	6,72	2	116							-0,01		0,03	0,9	0,8	
VARA	e	c	1	18:26:09.69	36,9	133			97							-0,04			0,9	0	

17/12/2013	02:21:15,56	45,7625	11,0416	9,6	0,6		0	0	0,2	90	0	0,2	B	0,02	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	1	02:21:18.35	13,3	302	20,57	2	126							-0,02		0,01	0,4	0	
DOSS	e		2	02:21:18.99	17,4	41	21,57	2	119							0,04		-0,02	0	0,7	

QUATERLY BULLETTIN *October-December 2013*

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				

17/12/2013	10:13:03,29	46,0851	11,0116	3,65	1,2		0	0	0,9	90	0	0,9	B	0,15	0	VEZZANO (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	10:13:03.96	4,1	267	5,17	2	132							-0,27		0,2	1,4	1,4	
PANI	e		2	10:13:07.60	25,3	99	11,12	3	98							-0,06		0,05	1,1	1,1	
DOSS	e		3	10:13:07.91	26,6	149			98							0,02			1,1	1,2	
RONC	e		2	10:13:08.88	32,3	249			96							0,04			1,1	1	
CARE	e		2	10:13:11.06	44,8	327	16,87	2	95							0,08		-0,11	0	1,3	

17/12/2013	11:49:55,27	,	,											10	TRAMONTI DI S. (PN)		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
PANI			2	11:49:55.27			73,25	1							168					
ZIAN			2	11:49:55.45											168					
DOSS			2	11:49:57.58			76,33	1							163					
OZOL			2	11:49:58.47			78,7	2							166					
GAGG			2	11:49:59.66			80,03	1							165					
VARA			2	11:50:01.99			22,37	2							164					
CARE			2	11:50:02.85			23,74	1							161					
RONC			1	11:50:04.26			26,61	1							164					

17/12/2013	11:56:03,68	46,1369	11,1831	1,27	1,2		0	0	0,7	90	0	0,7	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	1	11:56:06.27	15,1	129			95							0			1	1,3
GAGG	e	c	1	11:56:06.77	18,3	251			94							-0,05			1,1	1
DOSS	e		2	11:56:08.50	28,6	179			93							-0,06			1,1	0
ZIAN	e		2	11:56:09.36	33,2	62			92							0,01			1,1	0,8
RONC	e		2	11:56:11.95	46,7	248			92							0,28			0,9	1
CARE	e		2	11:56:12.08	49,2	310			91							-0,01			1,1	0

18/12/2013	04:01:08,18	,	,												10	FRIGNANO			DOUBLE EV. 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			2	04:01:08.18																	
RONC			2	04:01:09.58																	
DOSS			2	04:01:09.93																	
GAGG	e	d	1	04:01:11.61																	
PANI			2	04:01:12.99																	
CARE			2	04:01:16.43																	
OZOL	e	d	1	04:01:16.67																	
ZIAN			2	04:01:17.25																	

18/12/2013	08:49:26,21	46,8396	10,6203	12,35	1,7		0	0	1,9	90	0	1,9	C	0,31	0	CIMA DEI CORVI (BZ)				M 1.8(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		2	08:49:34.69	46,5	173	40,21	2	105							0,25		-0,64	1,7	1,6	
OZOL	e	d	2	08:49:36.79	58,7	146			102							0,33			1,4	1,2	

QUATERLY BULLETTIN *October-December 2013*

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			

18/12/2013	10:59:37,06	,	,											10	BACINO DI GUBBIO			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	10:59:37.06			78,88	3												
VARA			2	10:59:37.19																
PANI			2	10:59:38.84			77,72	3												
GAGG			2	10:59:40.29			78,82	3												
RONC			3	10:59:40.67																
ZIAN			3	10:59:41.20			78,34	3												
OZOL			3	10:59:44.35			85,59	3												
CARE	e	d	2	10:59:46.45			88,17	2												

18/12/2013	16:06:26,22	46,1355	11,1818	4,37	1,2		0	0	1	90	0	1	D	0,07	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	16:06:28.91	15,1	128				106						0			1,2	1,2	
GAGG	e	c	2	16:06:29.38	18,2	251				104						-0,04			1,3	1	
DOSS	e		2	16:06:31.17	28,4	179				99						0,03			1	0	
ZIAN	e		2	16:06:31.81	33,3	62				97						-0,16			1	0,9	

18/12/2013	17:24:58,00	,	,											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	e	c	0	17:24:58.00			58,67	1							24					

18/12/2013	17:29:33,96	46,2218	10,5861	1,77	1,2		0	0	0,3	90	0	0,3	C	0,09	0	VERMIGLIO (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	17:29:38.18	24,1	21	41,17	2	94								0,09		-0,14	0	1	
RONC	e	1	17:29:38.74	26,9	174	42,08	2	94								0,17		-0,09	1,2	1,3	
GAGG	e	2	17:29:39.58	32,6	118	43,92	2	93								0,04		0,02	0	0	
OZOL	e	2	17:29:41.01	41,1	61			92								0,01			0,8	0,7	

19/12/2013	04:12:28,14	,	,											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	04:12:28.14			28,92	2							25					

19/12/2013	15:17:55,52	,	,											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	c	0	15:17:55.52			56,42	1							25					

20/12/2013	11:08:51,12	46,1806	11,2040	9,55	1,1		0	0	0,3	90	0	0,3	B	0,05	2	CEMBRA (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		1	11:08:54.51	17,6	145				118						-0,04			0,9	0,9
GAGG	e	c	1	11:08:55.17	21,8	240				114						-0,03			1,2	0
OZOL	e		1	11:08:56.10	27,4	335				109						0,02			0,6	0,5
ZIAN	e	c	1	11:08:56.44	29,7	69				108						-0,01			0,9	0,8
DOSS	e		2	11:08:57.19	33,4	182				106						0,12			0	0
CARE	e		2	11:08:59.40	47,5	305				101						-0,01			0	1,4

QUATERLY BULLETTIN *October-December 2013*

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				

20/12/2013	12:15:09,57	,	,												10	BACINO DI GUBBIO	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		2		12:15:09.57												187				
DOSS		3		12:15:10.56												185				
PANI		3		12:15:11.47			46,26	3								182				
GAGG		3		12:15:13.06			48,98	3								184				
RONC		3		12:15:13.84												184				
ZIAN		3		12:15:14.04												186				
CARE		3		12:15:18.69			60,33	3								182				

20/12/2013	12:27:34,67	,	,												0	CARE, RONC	
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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
CARE	i	d	0	12:27:34.67			35,57	0								30				
RONC	e	c	1	12:27:42.73			49,41	2								32				

20/12/2013	15:46:24,70	46,1323	11,1810	3,12	1,1		0	0	0,5	90	0	0,5	C	0,08	2	ALBIANO (TN)	EXPL?
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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
PANI	e	c	1	15:46:27.32	15	127			102							0,01			0,9	1
GAGG	i	c	2	15:46:27.83	18	252			100							0			1,2	0
DOSS	e		2	15:46:29.41	28,1	179			96							-0,12			1,2	0
ZIAN	e	c	1	15:46:30.44	33,6	62			95							-0,02			0,8	0,6
VARA	e		2	15:46:31.87	40,6	213			94							0,21			1,1	0
CARE	e		2	15:46:33.15	49,4	311			94							-0,02			1,3	0

20/12/2013	17:14:24,36	45,8388	11,1960	11,49	1,1		0	0	0,6	90	0	0,6	B	0,21	0	TERRAGNOLO (TN)	
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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	0	17:14:26.68	4,6	353	28,19	1	158							0,2		0,06	0,5	0,6
VARA	e	c	1	17:14:28.97	23,3	266			116							0,17			0,9	0,9
PANI	i	d	1	17:14:29.44	25,9	25	32,71	2	114							0,23		-0,27	1	1
GAGG	e	d	2	17:14:30.41	32,8	326	34,67	2	109							0,1		-0,27	0	1,4
ZIAN	e		2	17:14:34.21	56,3	30			102							0,02			1,2	1,1

20/12/2013	20:03:16,74	,	,												10	MONFERRATO	M 2.2(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
RONC	e	d	2	20:03:16.74			39,74	2								122				
DOSS			3	20:03:20.39			46,01	2								120				
GAGG			3	20:03:20.41			46,21	3								121				
PANI			2	20:03:22.75			50,05	2								120				

21/12/2013	09:37:30,21	,	,												0	RONC	
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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
RONC	e	c	1	09:37:30.21			31,54	1								28				

QUATERLY BULLETTIN *October-December 2013*

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				

21/12/2013	16:10:12,39	,	,											10	ALPI COZIE	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		2		16:10:12.39			55,16	3								145				
GAGG		3		16:10:17.06												143				
PANI		3		16:10:18.60			63,94	3								144				
CARE		3		16:10:19.81			61,8	3								142				
OZOL		3		16:10:22.19			69,4	3								142				

21/12/2013	19:08:50,17	46,3886	10,8531	8,27	1,2		0	0	0,7	90	0	0,7	B	0,21	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	c	1	19:08:53.00	12,6	288	54,83	1	123							0,25		0,07	0,8	1
OZOL	e	d	1	19:08:53.14	15,4	84	55,23	2	118							-0,01		-0,25	0,8	1
GAGG	e		2	19:08:56.55	34,9	167	61,3	2	103							0,25		0,22	1,3	0
ZIAN	e		2	19:08:59.89	56,1	103			98							0,03			0	0,6

22/12/2013	01:37:45,77	,	,											10	BACINO DI GUBBIO			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	01:37:45.77			81,34	3								208				
VARA			3	01:37:46.42												209				
PANI			2	01:37:47.89			83	3								204				
GAGG			2	01:37:49.19			87,56	3								207				
RONC			3	01:37:49.97												205				
ZIAN			2	01:37:50.23												211				
OZOL			2	01:37:53.65			93,44	3								203				
CARE	e	d	2	01:37:55.46			94,81	3								202				

22/12/2013	10:07:20,58	,	,											10	BACINO DI GUBBIO			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			2	10:07:20.58			57,51	3												
VARA			2	10:07:21.19			54,54	2												
PANI	e	d	1	10:07:22.28			57,25	2												
GAGG			2	10:07:24.22			60,41	2												
RONC	e	d	1	10:07:24.24			66,27	3												
ZIAN	e	d	1	10:07:24.68			60,99	3												
OZOL			2	10:07:28.14			70,16	2												
CARE			2	10:07:30.42			70,77	3												

22/12/2013	20:07:57,93	46,0243	10,4863	3,74	1,9		0	0	0,5	90	0	0,5	C	0,14	0	DAONE (TN)			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
RONC	e	d	1	20:08:00.03	11,6	115	1,78	2	108							0,02		0,14	2,2	2,6
GAGG	e		2	20:08:04.33	37,1	80	9,27	2	96							0,02		-0,01	1,6	1,7
VARA	e		2	20:08:04.45	38,7	125	9,81	3	96							-0,12		0,05	1,8	1,5
CARE	e		2	20:08:06.26	47,4	20	12,27	2	95							0,21		-0,11	2	1,9
OZOL	e	c	2	20:08:08.24	60,6	46			94							-0,07			1,9	1,9
ZIAN	e		2	20:08:13.04	87,8	71			92							0,1			1,6	1,7

22/12/2013	23:08:35,81	46,3695	10,8596	5,15	0,6		0	0	4,4	90	0	4,4	D	0,04	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	23:08:38.38	13,9	296	40,27	2	110							0,04		-0,05	0	0
OZOL	e		1	23:08:38.51	15,2	76	40,75	2	109							-0,05		0,05	0	0,1

QUATERLY BULLETTIN *October-December 2013*

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			

23/12/2013	03:17:10,53	45,5070	10,1393	12,25	3,5		0	0	1,6	90	0	1,6	C	0,24	0	TRAVAGLIATO (BS)			M 3.3(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	
RONC	e		2	03:17:21.57	64,7	36				101						-0,22			3,6	3,7	
VARA	e		2	03:17:22.71	68,8	59				100						0,23			3,2	3,2	
GAGG	e		2	03:17:26.08	90,4	45				98						-0,04			3,4	3,4	
DOSS	e	c	2	03:17:26.15	91,7	63				98						-0,19			3,5	3,4	
CARE	e		2	03:17:29.26	110,8	23				96						-0,32			3,6	3,6	
PANI	e	c	2	03:17:29.68	110,9	57				96						0,08			3,4	3,5	
OZOL	e		3	03:17:31.41	122,2	35				59						0,14			3,9	3,8	
ZIAN	e	c	1	03:17:34.33	139,7	52				59						0,48			3,6	3,6	

23/12/2013	04:14:44,67													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	04:14:44.67			46,24	1							24					

23/12/2013	04:57:12,02	45,4906	10,1466	9,0300	1,9		0	0	4	90	0	4	D	0,14	0	BAGNOLO MELLA (BS)				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			
RONC	e		2	04:57:23.32	65,9	34				98						-0,07			1,8	2			
VARA	e		2	04:57:24.07	69,3	57				97						0,1			1,6	1,4			
DOSS	e		2	04:57:27.58	92	62				96						-0,24			1,8	0			
GAGG	e		3	04:57:27.69	91,3	44				96						0			1,8	0			
PANI	e		2	04:57:31.28	111,4	56				95						0,15			1,8	2			
CARE	e		2	04:57:31.40	112,2	22				95						0,13			0	1,9			
OZOL	e		2	04:57:33.35	123,4	35				94						0,19			2,1	2,2			
ZIAN	e		2	04:57:35.65	140,4	52				59						-0,06			1,9	1,8			

23/12/2013	05:07:25,12	45,4140	10,0686	6,32	1,7		0	0	4,4	90	0	4,4	D	0,09	0	B. SAN GIACOMO (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	05:07:38.15	76,4	34				95						-0,07			1,5	1,6	
VARA	e		3	05:07:38.66	79,2	55				95						-0,04			1,5	1,3	
DOSS	e		3	05:07:42.57	101,5	59				94						0,06			0	1,7	
PANI	e		2	05:07:45.80	121,3	54				93						-0,09			1,5	1,6	
CARE	e		2	05:07:46.21	122,5	23				93						0,13			1,8	1,9	
OZOL	e		2	05:07:48.21	133,8	35				93						0,18			1,9	1,8	
ZIAN	e		2	05:07:50.51	150,6	50				59						-0,04			1,8	1,5	

23/12/2013	09:05:17,63	45,5570	10,2771	10,45	1,6		0	0	4,59	90	0	4,59	D	0,12	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	09:05:27.18	54,2	30				101						0,1			1,5	1,5
VARA	e		2	09:05:27.40	56,8	58				100						-0,1			1,5	1,6
PANI	e		2	09:05:34.63	98,9	56				96						0			1,4	1,8
CARE	e		3	09:05:35.03	101,8	19				96						-0,09			0	0
OZOL	e		2	09:05:36.98	111,6	33				95						0,19			1,8	1,8

23/12/2013	09:35:05,43	45,4929	10,1744	0,77	1,7		0	0	0	90	0	0	C	0,16	0	BAGNOLO MELLA (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	09:35:16.41	64,5	33				91						-0,05			1,4	1,5	
CARE	e		2	09:35:24.70	111,2	21				90						0,26			1,9	2	

QUATERLY BULLETTIN *October-December 2013*

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			

23/12/2013	09:51:36,08	45,4998	10,1310	12,36	3,5		0	0	4,2	90	0	4,2	D	0,36	0	BAGNOLO MELLA (BS)	M 3.3(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
RONC	e	d	2	09:51:47.04	65,8	36				101						-0,47			3,4	3,4
VARA	e	d	2	09:51:48.47	69,8	59				100						0,27			3,2	3
GAGG	e		3	09:51:51.47	91,4	45				98						-0,37			3,3	3,4
DOSS	e		2	09:51:51.81	92,6	63				98						-0,24			3,4	3,6
CARE	e		2	09:51:54.85	111,8	23				59						-0,42			3,4	3,4
PANI	e		2	09:51:55.35	111,9	57				59						0,06			3,5	3,8
OZOL	e		2	09:51:57.57	123,2	35				59						0,62			3,8	3,7
ZIAN	e	c	2	09:51:59.87	140,7	52				59						0,34			3,5	3,5

23/12/2013	10:23:55,90	46,1443	11,1825	4,59	1,4		0	0	0,6	90	0	0,6	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
GAGG	e	d	2	10:23:59.15	18,6	249				104						-0,02			0	0
CARE	e		2	10:24:04.27	48,7	310				95						0,02			0	0

23/12/2013	10:42:24,36	45,4053	10,0198	3,06	2,1		0	0	3,8	90	0	3,8	D	0,15	0	B. SAN GIACOMO (BS)			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	
RONC	e		2	10:42:37.76	79,4	36				92						-0,17			2,2	2,4	
VARA	e		2	10:42:38.66	82,8	56				92						0,13			1,9	1,7	
DOSS	e		2	10:42:42.47	105,3	60				92						0,1			2	2	
CARE	e		3	10:42:45.57	124,9	25				91						-0,14			2,1	2,2	
PANI	e		2	10:42:45.62	125	55				91						-0,11			2	2,1	
OZOL	e		3	10:42:48.04	136,8	36				91						0,28			2,4	2,3	

23/12/2013	10:51:51,34	45,3985	10,0291	5,87	1,9		0	0	5	90	0	5	D	0,09	0	B. SAN GIACOMO (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	10:52:04.86	79,6	36				94						-0,11			2	2,1
VARA	e		3	10:52:05.67	82,7	55				94						0,16			1,5	1,4
DOSS	e		3	10:52:09.34	105,1	59				93						0,01			1,8	1,9
PANI	e		2	10:52:12.72	124,9	54				93						0,01			1,7	1,8
CARE	e		3	10:52:12.84	125,3	24				93						0,06			0	0
OZOL	e		3	10:52:14.93	137	35				92						0,15			2,1	2,2
ZIAN	e		3	10:52:17.19	154	51				59						-0,12			1,8	1,8

23/12/2013	10:57:11,27	,	,											10	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
RONC			3	10:57:11.27																
VARA			3	10:57:12.17																
GAGG			2	10:57:15.95																
CARE			3	10:57:19.08																

23/12/2013	17:01:12,98	46,4598	10,7246	7,05	0,7		0	0	0,5	90	0	0,5	C	0,04	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	17:01:14.40	4,5	208	15,52	1	148							-0,01		0	0	0			

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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				

24/12/2013	01:30:11,78	,	,											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	01:30:11.78			13,07	1							26					

24/12/2013	06:57:21,51	45,8016	11,3361	7,87	1,2		0	0	0,4	90	0	0,4	B	0,11	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	i	d	1	06:57:24.34	14,4	307	26,59	2	119							0,03		0,09	1,1	1,1			
PANI	e		2	06:57:26.33	27,7	360	30,16	3	106							-0,1		-0,11	0,6	0,7			
GAGG	e		2	06:57:29.11	42,9	317	34,76	2	100							0,15		-0,01	1,7	0			
ZIAN	e		2	06:57:31.00	55,6	18			98							-0,11			0,8	0,8			

24/12/2013	07:27:48,40	46,0540	10,5523	4,23	0,9		0	0	0,4	90	0	0,4	B	0,05	0	DAONE (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	07:27:50.28	9,8	146	51,7	2	113							0,06		0,05	0,6	0,5
GAGG	e		2	07:27:53.81	31,6	84	58,08	2	98							-0,04		-0,02	0	1,2

24/12/2013	08:10:13,55	45,3810	10,0681	9,33	2		0	0	4,2	90	0	4,2	D	0,08	0	B. SAN GIACOMO (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	08:10:27.36	79,4	33				97						0,14			1,7	1,6
GAGG	e		3	08:10:31.56	104,4	42				95						0,1			2,2	0
PANI	e		2	08:10:34.75	123,6	53				94						0,02			1,6	1,8
CARE	e		2	08:10:35.22	125,8	23				59						0,15			0	2
ZIAN	e		2	08:10:38.99	153	49				59						-0,07			1,7	1,6

24/12/2013	12:43:35,73	,	,											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
ZIAN			2	12:43:35.73											100					
PANI	e	c	1	12:43:38.59			54,37	2							98					
DOSS	e	c	2	12:43:40.82			56,99	1							98					
OZOL			2	12:43:42.76			60,4	1							98					
GAGG			3	12:43:43.34			60,57	1							99					
VARA			3	12:43:45.53			63,42	3							96					
CARE			2	12:43:47.09			66,08	1							95					

24/12/2013	13:11:23,22	46,5185	10,3746	8,4	0,8		0	0	1	90	0	1	C	0,11	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	13:11:28.18	26,9	113	31,69	2	107							0,14		-0,11	0	0

24/12/2013	20:26:20,77	46,1351	10,6771	0,91	1,1		0	0	0,3	90	0	0,3	C	0,1	0	SPIAZZO (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	20:26:23.80	17,7	194	26,31	2	93							0,01		0,16	0,8	1,1	
GAGG	e		2	20:26:24.62	22,5	105	27,56	2	92							0		-0,06	0	0	
CARE	e		2	20:26:26.39	32,2	3	30,59	2	92							0,12		0,03	0	0	

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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					

25/12/2013	06:56:41,89	45,7039	10,9405	10,19	1,2		0	0	0,7	90	0	0,7	B	0,12	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	06:56:45.03	14	346	47,24	2	126							0,18		0,08	0,8	0,7
DOSS	e		2	06:56:46.90	27,5	45	50,63	3	110							0		-0,18	1,3	0
GAGG	e		2	06:56:49.26	42,2	2				104						-0,06			0	1,5

25/12/2013	13:29:26,39	45,8576	11,4370	5,87	1,1		0	0	0,5	90	0	0,5	C	0,04	0	ROTZO (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	i	c	1	13:29:29.79	19,4	277	32,59	2	107							-0,07		0,02	0	1,1
GAGG	e		2	13:29:34.15	44,8	304			97							0,04			0	0
ZIAN	e		2	13:29:34.56	47,6	12			97							-0,02			0,7	0,7

25/12/2013	19:47:55,93	45,8491	10,9275	11,89	0,8		0	0	0,5	90	0	0,5	B	0,09	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
DOSS	i	c	1	19:48:00.05	20,6	80	3,06	2	120							0,06		-0,1	0	0
GAGG	e		1	19:48:00.93	26,2	5	4,72	1	114							0,09		0,05	0	0
ZIAN	e		2	19:48:07.63	68,4	46				100						-0,16			0	0,8

26/12/2013	00:44:21,18	,	,											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			2	00:44:21.18			22,88	2							27					

26/12/2013	01:15:31,74	45,6138	11,0423	7,47	1,3		0	0	1	90	0	1	C	0,16	0	BOSCOCHIESAN. (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	01:15:36.56	26,2	334	40,22	2	106							0,17		0,2	0	1,2
DOSS	e		2	01:15:37.38	31,7	21	41,37	2	103							0,08		-0,27	1,5	0
GAGG	e	c	2	01:15:40.95	52,6	353			98							0,13			1,6	1,8

26/12/2013	23:12:59,72	,	,											0	RONC,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
RONC	e	d	1	23:12:59.72			61,07	1							25					
CARE			3	23:13:06.27			10,21	2							25					

26/12/2013	23:37:58,32	,	,											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	23:37:58.32			60,23	1							24					

28/12/2013	00:13:22,25	,	,											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
DOSS			2	00:13:22.25			38,13	2							109					
RONC			2	00:13:23.60			40,53	1							108					
GAGG	i	d	2	00:13:25.09			43,24	1							109					
PANI			2	00:13:25.25			44,12	2							109					
ZIAN	e	d	1	00:13:29.42			51,32	2							106					
OZOL			3	00:13:29.79			51,06	3							108					
CARE			3	00:13:30.78											106					

QUATERLY BULLETTIN *October-December 2013*

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				

27/12/2013	07:08:47,26	,	,												10	SARGANS [CH]	M 3.6(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	e	c	2	07:08:47.26			63,17	2							218					
RONC	i	c	1	07:08:53.61			75,98	3							216					
GAGG	e	c	2	07:08:54.19			76,77	3							215					
ZIAN	e	c	2	07:08:58.86			83,81	2							214					
DOSS			2	07:08:59.29			83,19	3							212					

27/12/2013	08:37:54,05	,	,											0	RONC,GAGG							
st_name	p_rem	m	w_p	time_s	dist	azm	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	08:37:54.05			55,17	0							29							
GAGG			2	08:37:56.43			59,85	1							30							

27/12/2013	19:44:09,39	,	,											10	BACINO DI GUBBIO	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	19:44:09.39			50,04	2							216					
PANI	e	d	1	19:44:11.85			50,51	2							219					
GAGG			2	19:44:13.39											215					
RONC			2	19:44:13.47											218					
ZIAN	e	d	1	19:44:13.82											219					
OZOL			2	19:44:17.20			56,95	3							218					
CARE	e	d	2	19:44:19.18			61,07	2							212					

28/12/2013	06:40:16,27	45,4618	10,2610	14,34	1,9		0	0	4,5	90	0	4,5	D	0,14	0	CASTENEDOLO (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	06:40:27.42	64,2	26				103						-0,09			1,6	1,7	
DOSS	e		3	06:40:31.34	86	57				99						0,18			0	0	
GAGG	e		2	06:40:31.50	87,9	38				99						0,01			0	0	
PANI	e		2	06:40:34.38	106,1	52				59						-0,08			1,7	2	
CARE	e		2	06:40:35.23	112,2	18				59						-0,13			0	2	
OZOL	e		2	06:40:36.88	121,3	30				59						0,19			2,1	2	

28/12/2013	06:55:40,22	45,4426	10,1971	12,52	1,6		0	0	4,9	90	0	4,9	D	0,12	0	BAGNOLO MELLA (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		3	06:55:52.10	68,4	29				100						0			1,5	1,6	
DOSS	e		2	06:55:56.10	91,3	58				98						0,13			1,7	0	
GAGG	e		2	06:55:56.38	92,6	40				98						0,18			0	1,9	
PANI	e		2	06:55:59.31	111,4	53				59						-0,03			1,5	1,7	
CARE	e		2	06:56:00.04	115,8	20				59						0,05			0	0	
ZIAN	e		2	06:56:03.49	140,9	49				59						-0,19			1,5	1,4	

29/12/2013	01:56:46,31	,	,											10	BACINO DI GUBBIO			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	01:56:46.31			81,56	3								203				
GAGG			3	01:56:50.27			87,67	3								203				
ZIAN			2	01:56:50.91												203				
OZOL			2	01:56:54.21			95,38	2								202				
CARE			3	01:56:56.03			96,79	3								204				

QUATERLY BULLETTIN *October-December 2013*

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				

29/12/2013	03:51:38,78	,	,											10		BACINO DI GUBBIO	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
DOSS		2		03:51:38.78												196				
PANI		3		03:51:41.11			78,5	3								200				
GAGG		2		03:51:42.43			79,58	3								197				
RONC		3		03:51:42.67												200				
ZIAN		2		03:51:43.40			80,23	3								201				
OZOL		2		03:51:46.73			87,8	2								198				
CARE		2		03:51:48.56			90,3	3								192				

29/12/2013	08:48:50,23	45,6920	10,6123	10,5	1		0	0	1,5	90	0	1,5	C	0,09	0	GARGNANO (BS)	
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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
RONC	e	2		08:48:56.06	32,1	1	60,5	2	108							0,05		-0,01	0,9	1

30/12/2013	13:45:01,45	45,5965	10,4891	5,44	1,6		0	0	1,3	90	0	1,3	C	0,17	0	SALO' (BS)	
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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	2		13:45:08.43	40,7	51	14,11	2	98							-0,04		0,17	1,3	1,4
RONC	e	2		13:45:09.32	44	14	14,97	2	97							0,3		0,04	1,2	1,3
ZIAN	e	2		13:45:20.49	112,5	48			93							-0,21			1,4	1,4

30/12/2013	19:16:17,51	45,5858	10,3170	9,27	1,6		0	0	5	90	0	5	D	0,09	0	LUMEZZANE (BS)	
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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
RONC	e	3		19:16:26.17	49,9	28			101							-0,02			0,9	1,1
VARA	e	2		19:16:26.66	52,4	59			100							0,05			1,2	0
DOSS	e	2		19:16:30.60	75,3	64			97							0,12			0	1,6
PANI	e	2		19:16:33.76	94,5	57			96							0,02			1,2	1,4
CARE	e	2		19:16:34.36	97,8	18			95							0,06			1,8	1,6
ZIAN	e	2		19:16:38.77	123,4	52			94							0,1			1,3	1,4

30/12/2013	21:11:04,72	45,5461	10,2298	14,26	1,7		0	0	4,3	90	0	4,3	D	0,11	0	BRESCIA	
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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
RONC	e	3		21:11:14.77	57,2	32			104							-0,02			1,6	1,6
GAGG	e	2		21:11:19.16	82,3	43			100							0,16			0	0
DOSS	e	2		21:11:19.24	83,4	64			100							0,06			0	0
PANI	e	2		21:11:22.28	102,6	57			59							-0,12			1,4	1,7
CARE	e	3		21:11:22.50	104,1	20			59							-0,12			1,8	0
OZOL	e	2		21:11:24.34	114,6	34			59							0,18			1,8	1,7
ZIAN	e	2		21:11:26.53	131,5	52			59							-0,12			1,6	1,6

31/12/2013	00:30:55,11	,	,											10		ZONA ASCOLI PICENO	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
DOSS	e	c	2	00:30:55.11			92,05	3								173				
PANI	e	c	1	00:30:56.56			93,43	2								176				
ZIAN	i	c	1	00:30:58.35												178				
GAGG			2	00:30:58.73			99,91	3								174				
RONC			2	00:30:59.48			100,8	3								176				
OZOL	i	c	1	00:31:02.27			46,18	2								174				

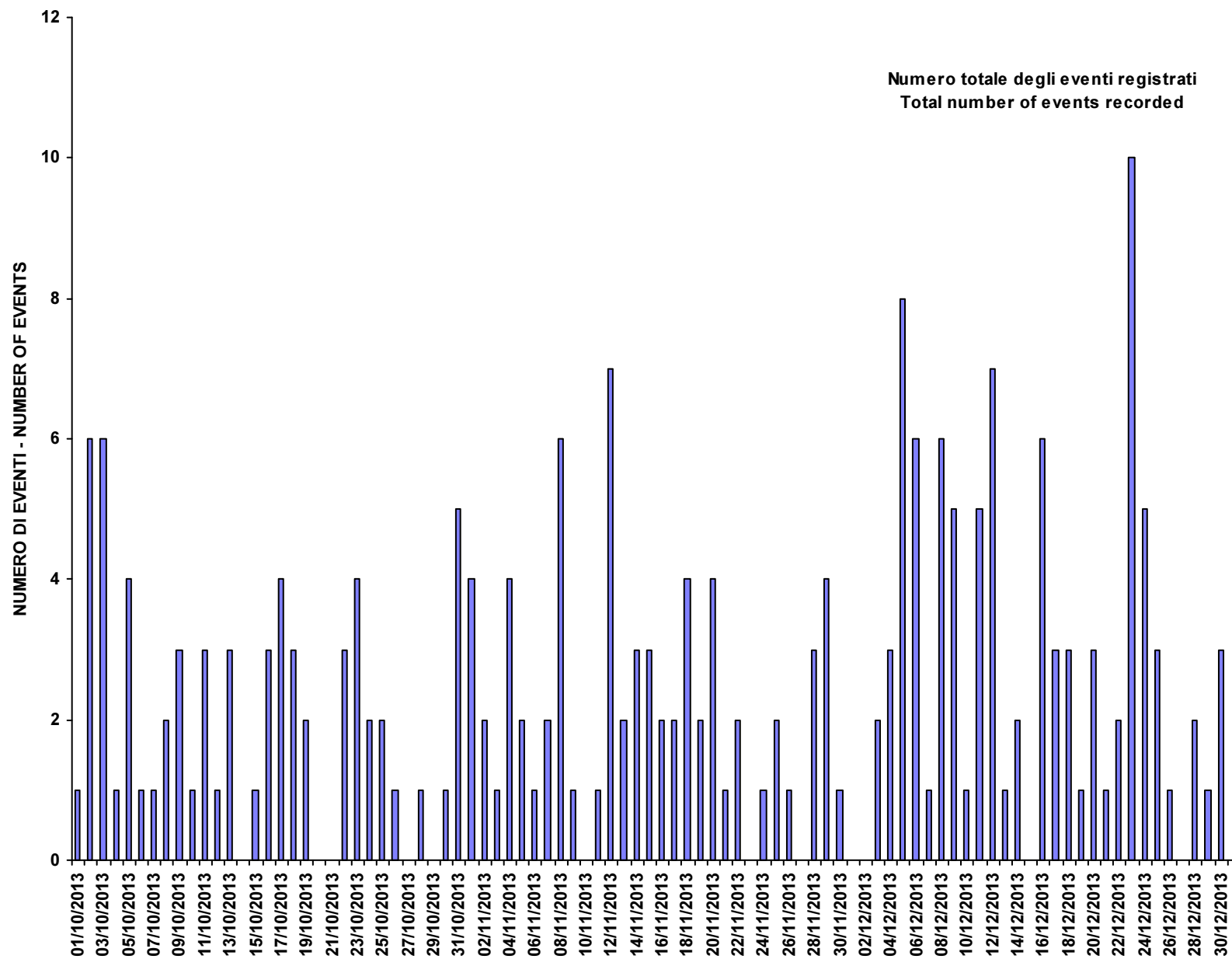
QUATERLY BULLETTIN *October-December 2013*

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				

31/12/2013	15:44:07.91	,	,											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	15:44:07.91			8,33	2							25					

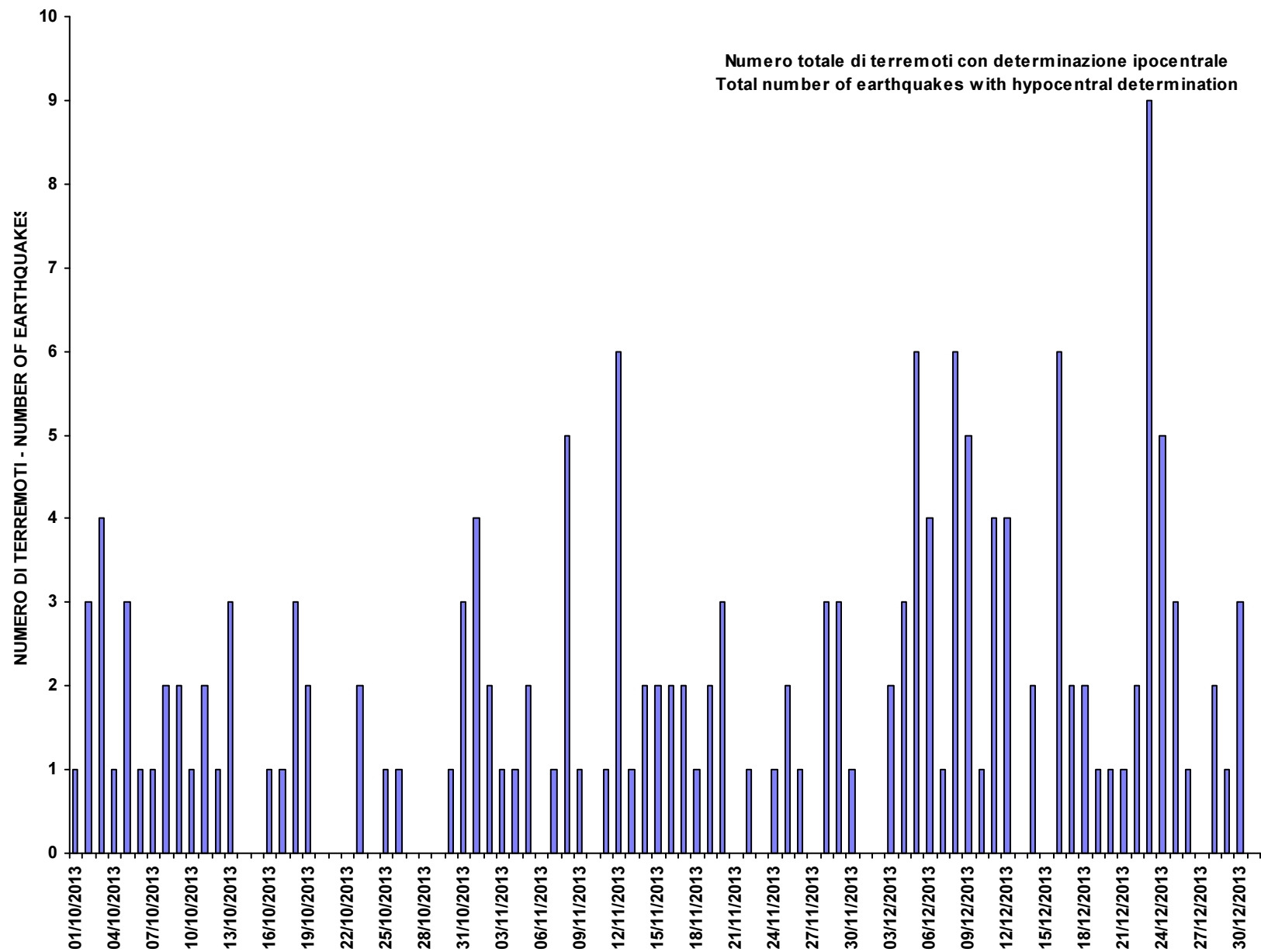
RETE SISMICA DEL TRENTINO ; PERIODO : OTTOBRE - DICEMBRE 2013

TRENTINO SEISMOMETRIC NETWORK ; PERIOD : OCTOBER - DECEMBER 2013



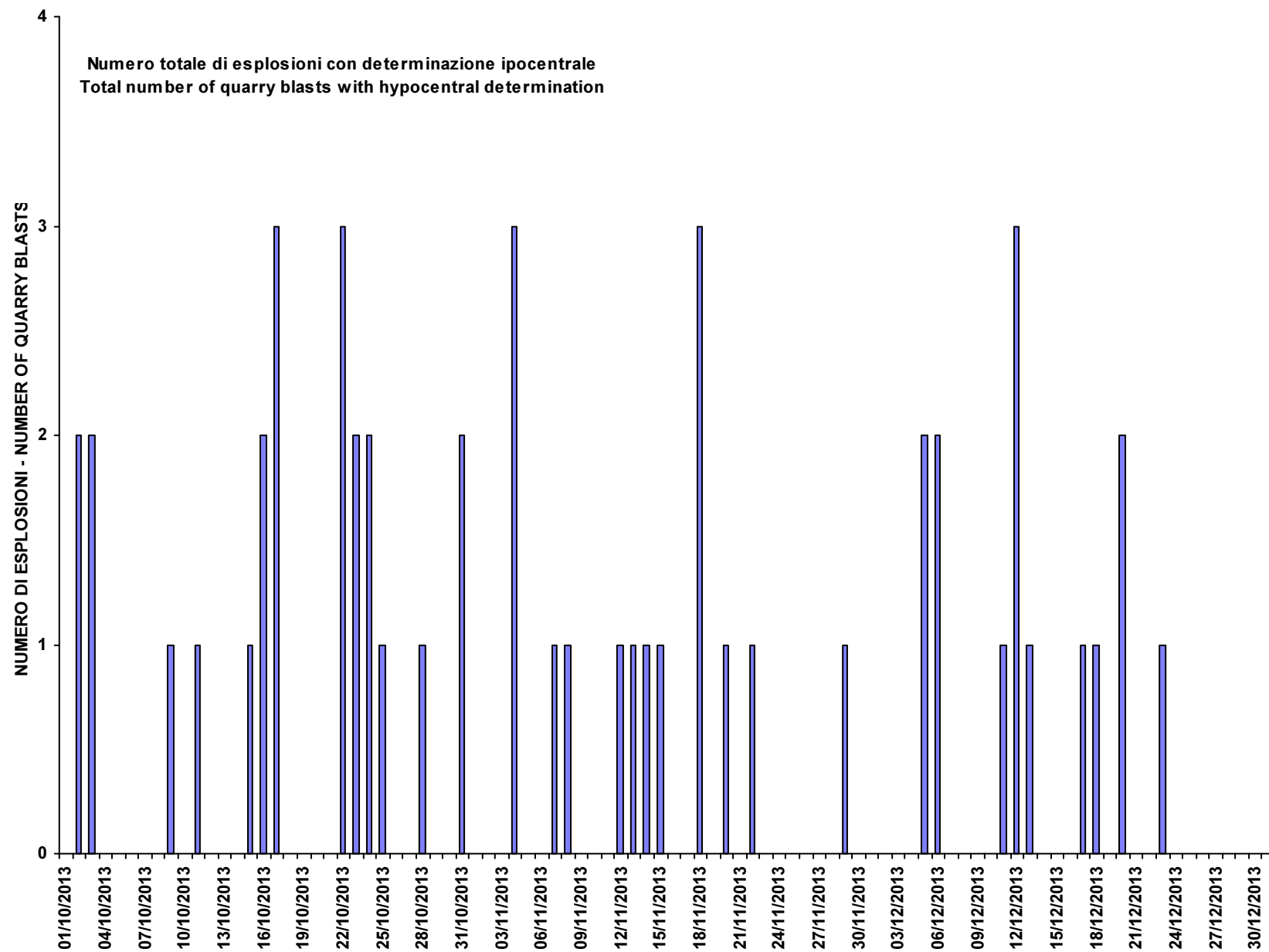
RETE SISMICA DEL TRENTINO ; PERIODO : OTTOBRE - DICEMBRE 2013

TRENTINO SEISMOMETRIC NETWORK ; PERIOD : OCTOBER - DECEMBER 2013



RETE SISMICA DEL TRENTINO ; PERIODO : OTTOBRE - DICEMBRE 2013

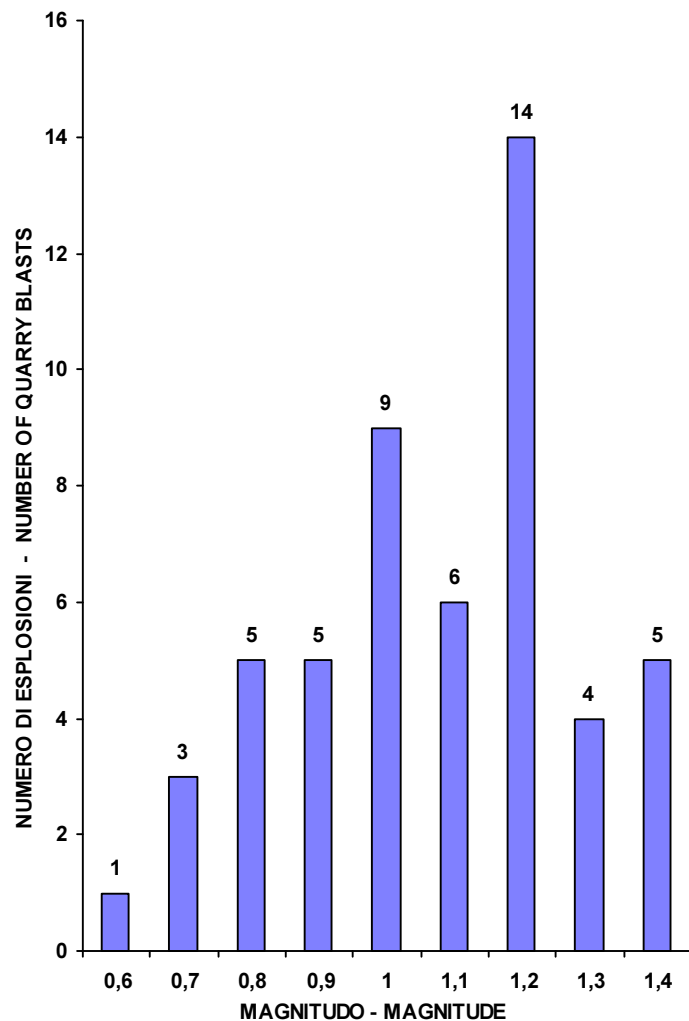
TRENTINO SEISMOMETRIC NETWORK ; PERIOD : OCTOBER - DECEMBER 2013



RETE SISMICA DEL TRENTINO ; PERIODO : OTTOBRE - DICEMBRE 2013

TRENTINO SEISMOMETRIC NETWORK ; PERIOD : OCTOBER - DECEMBER 2013

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

