

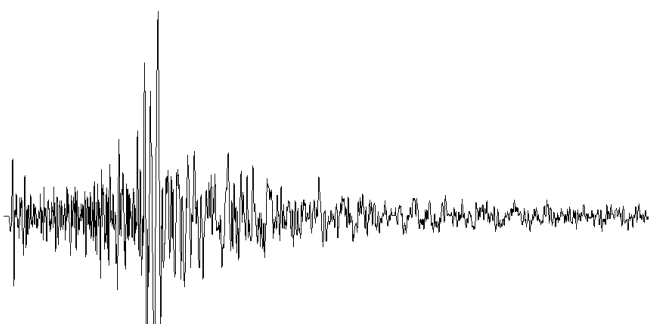
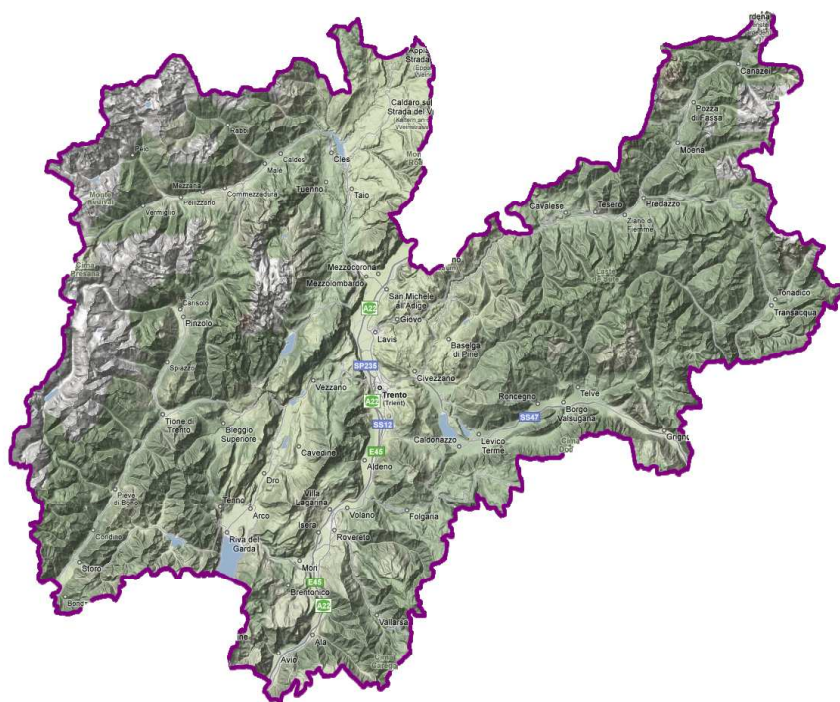


PROVINCIA AUTONOMA DI TRENTO

SERVIZIO GEOLOGICO

TRENTINO SEISMOMETRIC NETWORK

JULY
SEPTEMBER
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

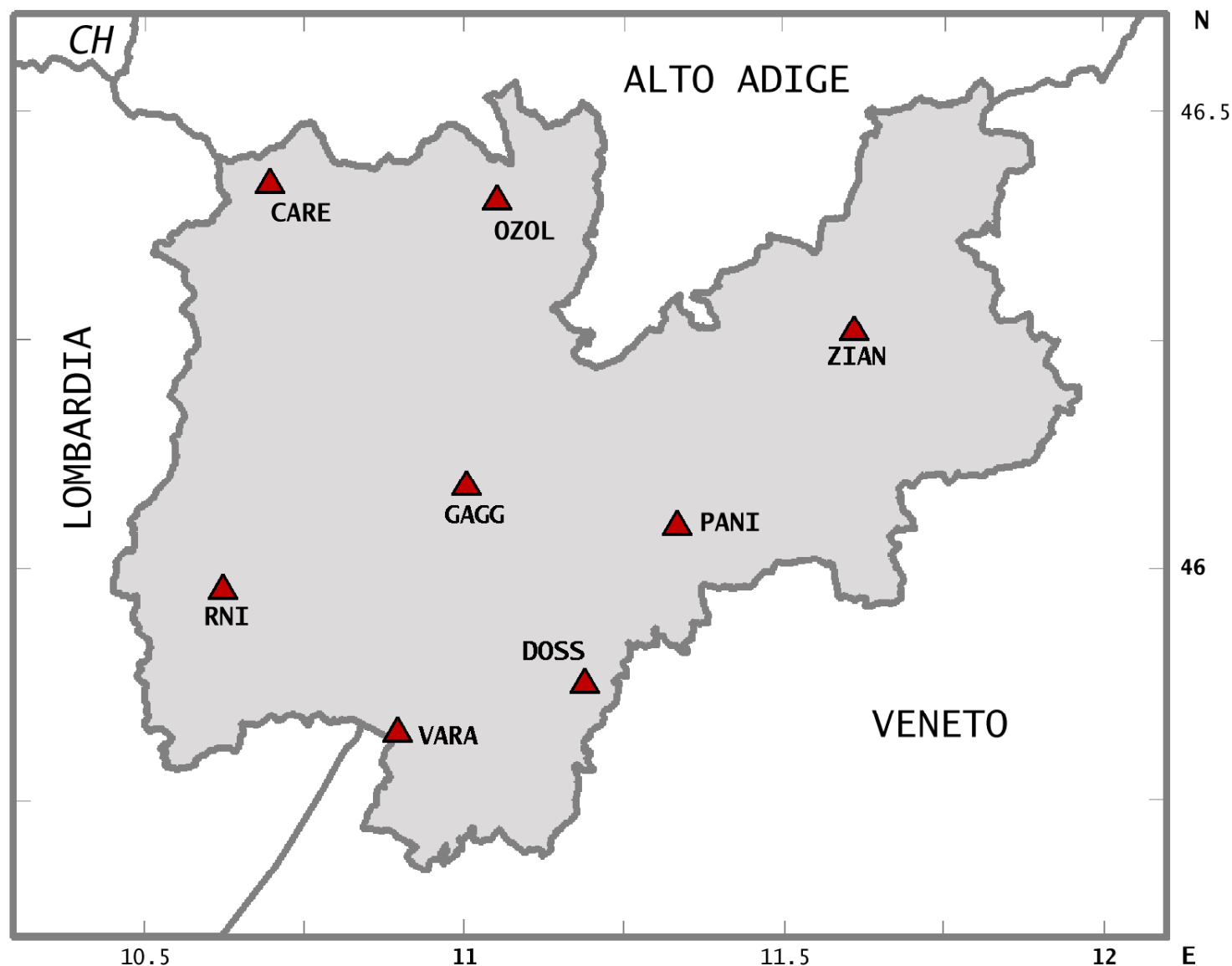
PROVINCIA AUTONOMA DI TRENTO

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RNI	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
 RNI 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 *July-September 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					

01/07/2013	11:07:23,69	46,3628	10,7304	1,54	0,9	1,2	0	0	0,3	90	0	0,3	C	0,11	0	PEJO (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
OZOL	i	d	1	11:07:27.87	25,1	80	31,23	2	94						16	-0,12		-0,11	1	1
GAGG	i	c	1	11:07:29.96	35,7	150	34,59	2	92							0,16		0,03	0,8	0,9

01/07/2013	11:28:30,84	,	,											10	ALPI APUANE				M 3.0(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			3	11:28:30.84			59,04	3							173							
RNI			3	11:28:32.28			60,77	3							172							
DOSS			3	11:28:32.62			60,2	3							168							
GAGG			3	11:28:34.16			64,82	3							168							
PANI			3	11:28:35.00			65,97	3							171							
OZOL			3	11:28:40.28			76,95	3							168							

01/07/2013	15:11:41,89	46,1341	11,1821	3,65	0,9	1,6	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	0	15:11:44.53	15	128			104							0			0,8	1
GAGG	e	c	1	15:11:45.06	18,2	252			101						23	0			0,8	0,8
DOSS	e	c	1	15:11:46.76	28,2	179			97							0			0,9	0,9

01/07/2013	16:57:18,61	,	,											10	ALPI APUANE				M 3.3(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			2	16:57:18.61			43,92	2							197							
RNI			3	16:57:19.35			46,52	3							196							
DOSS			2	16:57:19.77			47,97	2							192							
GAGG			2	16:57:22.25			52,21	3							193							
PANI			2	16:57:22.40			53,81	2							196							
OZOL			2	16:57:26.80			56,25	2							192							
ZIAN			2	16:57:26.80			62,1	2							195							

03/07/2013	10:21:50,79	,	,											10	CLAUT (PN)				M 2.6(O)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
PANI	i	d	2	10:21:50.79			63,86	2							150							
OZOL	i	d	2	10:21:53.52			69,66	3							149							
DOSS	e	d	2	10:21:53.60			70,89	2							148							
GAGG	i	d	2	10:21:55.18			72,31	2							148							
VARA	i	d	2	10:21:57.43			76,93	2							148							
CARE			3	10:21:57.66			77,16	3							147							
RNI	e	d	2	10:22:00.22			20,46	2							146							

03/07/2013	10:53:46,85	45,6781	10,8961	6,17	1,8	2	0	0	0,5	90	0	0,5	B	0,12	0	MONTE BALDO (VR)		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	e		2	10:53:49.90	16,4	0			111							0,05			2	1,8
DOSS	i	c	0	10:53:52.36	32	45	56,73	2	101						43	-0,05		-0,02	1,6	1,6
RNI	e		2	10:53:53.89	39,8	328	59,12	3	99							0,16		0,02	1,8	2,2
GAGG	e		2	10:53:54.61	45,3	6			98						35	-0,06			1,9	1,7
PANI	e	c	1	10:53:55.97	53,6	39			97							-0,11			1,4	1,5
CARE	e		3	10:54:01.55	84,4	349			94							0,24			1,5	1,6

QUATERLY BULLETTIN *July-September 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			

03/07/2013	14:52:47,55	46,7866	10,2993	11,25	1,9		0	0	2,6	90	0	2,6	D	0,2	0	PUNTA PISOC [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
GAGG	e	2		14:53:03.83	93,2	147				97						0,24			1,9	1,8

03/07/2013	15:40:34,09	45,5525	10,2663	1,81	1,6		0	0	0,6	90	0	0,6	C	0,09	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
RNI	e	2		15:40:43.56	55,1	30	50,9	3	92							0,05		0,04	1,4	1,6
DOSS	e	2		15:40:47.87	80,5	63	58,56	3	91							0,01		-0,03	1,5	1,4
ZIAN	e	3		15:40:56.24	128,8	51				91						0,13			1,7	1,8

03/07/2013	16:32:42.90	,	,											10	LUNIGIANA	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		3		16:32:42.90			67.97	3							155					
RNI		3		16:32:43.47			72.72	3							155					
DOSS		2		16:32:44.11			71.15	3							155					
GAGG		3		16:32:46.58			74.98	3							154					
PANI		3		16:32:47.30			77.02	2							154					
ZIAN		3		16:32:51.75											154					

03/07/2013	23:18:09,74	45,5513	10,9843	12,58	0,6	0,9	0	0	0,9	90	0	0,9	C	0,14	0	GREZZANA (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	d	1	23:18:15.70	31,3	347	20,08	2	112						12	0,19		0,08	0	0,6
DOSS	e	c	2	23:18:17.11	39,8	24	22,2	2	108							0,22		-0,26	0,8	0,7

03/07/2013	23:37:31,94	,	,											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	23:37:31.94			33	1							29					

04/07/2013	04:13:31,98	45,8781	11,9331	10,96	2,5	2,6	0	0	0,7	90	0	0,7	C	0,22	0	CAVASO D. TOMBA (TV)				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			
PANI	e	d	1	04:13:40.96	50,2	292	47,47	2	102						60	0,2		-0,14	2,2	2,3			
ZIAN	e		2	04:13:41.20	52,7	327	48,16	2	102							0,02		-0,2	2,5	2,6			
DOSS	e		2	04:13:41.88	57,8	270			101						76	-0,15			2,4	2,4			
GAGG	e	d	1	04:13:45.53	78,9	287			98						61	-0,06			2,9	2,6			
VARA	e		2	04:13:45.81	80,7	266			98							-0,09			2,9	2,8			
OZOL	e		3	04:13:47.71	89,7	311			97							0,28			2,8	2,6			
RNI	e		2	04:13:49.29	102,3	276			96							-0,27			2,4	2,4			
CARE			3	04:13:51.35	113,2	302			96							-0,06			2,6	2,6			

QUATERLY BULLETTIN *July-September 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				

04/07/2013	05:21:19,95	,	,											10	PIANURA PADANA EMIL.	M 2.4(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		3		05:21:19.95			35,2	2							113					
DOSS		2		05:21:21.02			36,5	2							108					
RNI		3		05:21:23.12			40,12	2							112					
PANI		3		05:21:24.23			41,59	2							112					
GAGG		3		05:21:24.42			42,03	2							107					
ZIAN		3		05:21:28.76			48,99	2							112					
OZOL		3		05:21:29.55			50,77	2							108					
CARE		2		05:21:30.80			51,62	3							105					

04/07/2013	06:44:10,99	,	,											0	OZOL					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
OZOL	i	c	1	06:44:10.99			12,72	2							34					

04/07/2013	15:53:24,79	46,1330	11,1826	4,43	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	i	c	0	15:53:27.45	14,9	128				107						0			0,8	0,9
GAGG	e	c	1	15:53:27.99	18,2	252				104						0			0,6	0,6
DOSS	e		2	15:53:29.66	28,1	179				99						0			0,6	0,8

04/07/2013	21:25:33,54	45,6231	10,6943	2,02	0,6	0,6	0	0	1,1	90	0	1,1	D	0,08	0	TOSCOLANO MAD. (BS)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e		2	21:25:38.21	27,5	35	41,96	2	94							-0,05		0,02	0	0,5

05/07/2013	00:42:03,03	,	,											10	ST. MORITZ [CH]			M 2.0(S)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	00:42:03.03			10,48	1							85					
RNI			2	00:42:05.82			16,18	1							83					
OZOL			2	00:42:07.51			18,79	2							83					
GAGG			2	00:42:08.03			19,43	2							83					
VARA			3	00:42:10.29											83					
DOSS			1	00:42:13.00			27,71	2							79					
PANI			2	00:42:13.15			27,23	2							80					
ZIAN			2	00:42:14.72			30,26	2							81					

05/07/2013	04:28:28,64	,	,											10	PIANURA PADANA EMIL.	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	e	c	2	04:28:28.64			43,67	2							117					
DOSS			2	04:28:29.38			43,3	2							119					
PANI			2	04:28:31.99			49,3	1							116					
RNI			2	04:28:32.71			50,71	1							115					
GAGG			2	04:28:33.15			50,49	2							118					
ZIAN			2	04:28:36.29			55,66	2							119					
OZOL			3	04:28:38.21			60,39	1							116					
CARE			3	04:28:39.14			61,62	2							114					

QUATERLY BULLETTIN *July-September 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			

05/07/2013	14:20:07,94	46,6015	10,2820	10,39	2	1,9	0	0	1,1	90	0	1,1	C	0,21	0	ACQUA DEL GALLO (SO)				M 2.1(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	0	14:20:14.62	37,5	122	19,6	2	105						37	0,04		-0,16	2,2	2	
OZOL	e		2	14:20:19.25	63	110			99							0,39			2,2	2,2	
RNI	e	c	0	14:20:20.80	73,8	159	30,31	2	98						36	0,12		-0,31	2,1	2,2	
GAGG	e	c	0	14:20:21.40	77,6	138			98							0,07			1,6	1,5	
PANI	e		2	14:20:26.14	101,6	127			96							0,75			2	1,7	

05/07/2013	15:06:37,61	45,4615	11,6361	18,32	1,5	1,5	0	0	0,7	90	0	0,7	B	0,13	0	MONTEGALDA (VI)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
DOSS	e	d	0	15:06:48.10	58,1	323	56,03	2	107						21	0,07		-0,12	1,2	1,2	
PANI	e	d	0	15:06:49.85	69,6	340			105							-0,06			1,2	1,5	
VARA	e	d	0	15:06:49.92	70,5	305			105							-0,14			1,6	1,7	
GAGG	e	c	1	15:06:52.61	86,9	323			59							-0,02			1,5	1,3	
ZIAN	e	c	2	15:06:53.19	90,7	356			59							0			1,8	1,7	

05/07/2013	15:47:18,19	46,1371	11,1858	4,12	1,2		0	0	0,3	90	0	0,3	C	0,06	2	ALBIANO (TN)			EXPL?		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
PANI	i	c	0	15:47:20.87	15	130				105						0,02			1,3	1,4	
GAGG	i	c	1	15:47:21.37	18,5	251				103						-0,07			1,4	1,3	
DOSS	i	c	0	15:47:23.11	28,6	180				98						-0,02			1,1	1,2	
OZOL	e		2	15:47:23.64	31,3	341				97						0,05			1,4	1,3	
ZIAN	e	c	1	15:47:23.86	33	62				97						-0,01			1,2	1	
VARA	e	c	2	15:47:25.44	41,2	213				96						0,17			1,1	1,1	
CARE	e		2	15:47:26.60	49,4	310				95						-0,06			0,9	1	

05/07/2013	17:29:30,62	46,1380	11,1838	7	0,4		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	17:29:33.46	15,2	130				115						-0,01			0,3	0,4			
GAGG	e	d	1	17:29:33.99	18,4	251				111						0			0,4	0			
DOSS	e		2	17:29:35.67	28,7	179				104						0,01			0,5	0			

05/07/2013	17:34:31,46	46,1293	11,1831	5,87	0,7		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	e	c	1	17:34:34.16	14,6	127				112						0,01			0,7	0,7	
GAGG	e		2	17:34:34.69	18,1	254				108						-0,02			0,6	0,5	
DOSS	e	c	2	17:34:36.33	27,7	179				102						0,03			0,7	0,7	
ZIAN	e	c	1	17:34:37.26	33,6	61				100						-0,03			0,7	0	

05/07/2013	17:34:54,49	46,1319	11,1856	4,42	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	i	c	1	17:34:57.11	14,6	128				107						0			0,7	0,8	
GAGG	e		2	17:34:57.71	18,4	253				104						-0,01			0,8	0,5	
DOSS	e		2	17:34:59.34	28	179				99						0			0	0,8	
ZIAN	e	c	1	17:35:00.23	33,3	61				98						0			0	0,7	

QUATERLY BULLETTIN *July-September 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			

06/07/2013	00:51:53,08	46,4661	10,0013	16,3	1,2	1,6	0	0	1,7	90	0	1,7	C	0,07	0	ALP BERNINA [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	1		00:52:02.65	53,7	95	10,08	2	107							-0,02		-0,07	1,1	1,2	
RNI	e	2		00:52:05.75	72,2	138				103						0,02			1	1,1	

06/07/2013	02:47:57,58	,	,											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		02:47:57.58			58,45	2							31					

06/07/2013	11:56:33,54	,	,											10	LUNIGIANA				M 2.7(l)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA		3		11:56:33.54			59,8	2							145							
DOSS		3		11:56:34.49			63,01	3							143							
RNI		3		11:56:35.22			63,36	3							144							
GAGG		3		11:56:36.67			65,81	3							144							
PANI		3		11:56:37.69			68,39	3							144							
CARE		3		11:56:41.13											139							
ZIAN		3		11:56:42.05			72,72	3							142							
OZOL		3		11:56:42.14			72,79	2							140							

06/07/2013	17:56:33,81	,	,											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
VARA		2		17:56:33.81			53,08	2							108					
DOSS		3		17:56:34.18			56,74	3							105					
RNI		3		17:56:35.55			57,84	3							108					
PANI		3		17:56:37.00			62,66	2							106					
GAGG		3		17:56:37.72			61,98	2							105					
ZIAN		2		17:56:41.34											103					

07/07/2013	00:17:59.79		,		,											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	
VARA			3	00:17:59.79																	
DOSS			3	00:17:59.87																	
RNI			2	00:18:02.53																	
PANI			3	00:18:04.19																	
GAGG			3	00:18:04.23																	
ZIAN			3	00:18:09.15																	
OZOL			3	00:18:09.42																	

07/07/2013	04:30:35,57	46,2066	11,5785	6,54	0,9		0	0	0,6	90	0	0,6	B	0,11	0	PIEVE TESINO (TN)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
ZIAN	e	d	1	04:30:37.40	7,8	351	38,68	2	130							0,09		0,01	1,1	0,6	
PANI	e		1	04:30:40.24	25,6	227	43,43	2	104							0,15		-0,18	0,7	0,8	
DOSS	e		2	04:30:43.75	47,2	220				98						0,03			0	1	

QUATERLY BULLETTIN *July-September 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			

07/07/2013	10:40:49,20	45,9063	11,6951	6,11	1,4	1,5	0	0	0,7	90	0	0,7	C	0,16	0	VALSTAGNA (VI)			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	
PANI	e	d	1	10:40:55.03	32,2	300	59,37	3	101						19	0,22		0,19	1,4	1,5	
DOSS	e		1	10:40:56.15	39,4	266	61,15	2	99						23	0,13		-0,18	1,4	1,5	
ZIAN	e		2	10:40:56.37	42,4	346			98							-0,15			1,6	1,5	
GAGG	e	d	1	10:40:59.59	60,4	289			96						20	0,02			1,4	1,4	
VARA	e	d	1	10:41:00.07	62,7	262			96							0,11			1,4	1,5	
OZOL	e		2	10:41:01.90	74,3	318			95							-0,05			1,2	1,1	

07/07/2013	15:40:20,69	,	,											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	15:40:20.69			22,8	1							25					
DOSS	i	c	1	15:40:21.39			23,74	1							24					

08/07/2013	06:48:33,40	45,9556	10,7800	9,52	0,8		0	0	0,6	90	0	0,6	B	0,17	0	TENNO (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	
RNI	e		2	06:48:35.99	12,5	283	38,43	2	127							-0,11		0,23	0,4	0,7	
VARA	e		2	06:48:36.92	17	148			119							0,17			0,7	0,4	
GAGG	e	d	2	06:48:37.18	19,8	44			116							0			0	0	
DOSS	e		2	06:48:39.42	32,8	105	43,53	2	106							0,17		-0,28	1,1	1,2	
PANI	e		2	06:48:41.28	44,3	76	47,12	3	102							0,13		-0,07	0,6	0,8	

08/07/2013	06:57:49,33	45,9483	10,7475	14,3	0,6		0	0	0,2	90	0	0,2	B	0,03	0	CONCEI (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	06:57:53.28	17,8	140	56,26	2	129							0,04		-0,03	0,6	0,4	
GAGG	e		2	06:57:53.81	22,2	47	57,41	2	123							-0,04		0,04	0	0,6	
DOSS	e		2	06:57:55.76	35,1	103				112						-0,05			0,8	0	

08/07/2013	07:27:42.42	,	,											0	RNI,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
RNI			2	07:27:42.42			44,14	3							28					
GAGG			2	07:27:43.30			46,97	2							28					

08/07/2013	14:56:42,67	46,1313	11,1838	2,79	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	14:56:45.23	14,7	127				101						0			0,7	0,9	
GAGG	e	c	2	14:56:45.82	18,2	253				99						0			0	0,5	
DOSS	e		2	14:56:47.47	27,9	179				96						0			0,6	0,7	

08/07/2013	14:58:23,17	46,1271	11,1848	6,61	0,9		0	0	0,1	90	0	0,1	B	0,01	2	ALBIANO (TN)				EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
PANI	i	c	0	14:58:25.88	14,4	126				115						0			0,9	1,2	
GAGG	e	c	1	14:58:26.47	18,1	254				110						0			0,9	0,8	
DOSS	e		2	14:58:28.00	27,5	179				104						0			0,9	0,9	
ZIAN	e		2	14:58:29.00	33,6	60				101						-0,02			0,9	0,9	

QUATERLY BULLETTIN *July-September 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			

08/07/2013	15:42:06,76	46,1301	11,2211	0,63	1		0	0	0,6	90	0	0,6	C	0,06	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	15:42:08.89	12,5	135				93						0			1,1	1,2
GAGG	i	c	1	15:42:10.32	21	256				92						-0,02			1,1	0,8
ZIAN	i	c	1	15:42:12.06	31	58				91						0			1	1
CARE	e		1	15:42:15.63	52	309				91						-0,01			0	0,9

08/07/2013	16:13:31,95	46,1330	11,1811	3,5	1,1		0	0	0,3	90	0	0,3	C	0,06	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	1	16:13:34.57	15	128				103						-0,01			1	1,2
GAGG	i	c	1	16:13:35.09	18,1	252				101						0			1,2	1,1
DOSS	i	c	1	16:13:36.76	28,1	179				97						-0,03			1,1	1,2
ZIAN	e	c	1	16:13:37.68	33,5	62				96						-0,03			1,1	1,2
VARA	e		2	16:13:39.04	40,6	213				95						0,12			1,1	1
CARE	e		2	16:13:40.34	49,4	311				94						-0,07			1	0,9

08/07/2013	16:40:18,82	45,6010	10,8653	0,89	0,9		0	0	1,1	90	0	1,1	D	0,1	0	DOLCE' (VR)							
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag			
VARA	e		2	16:40:23.24	25,1	6	26,6	3	92							0,11		0,12	0,7	0,5			
DOSS	e		2	16:40:25.71	39,9	39	30,78	3	91							0,05		-0,2	0	0			

08/07/2013	23:33:44,85	45,7548	11,0430	8,11			0	0	0,3	90	0	0,3	B	0,05	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	23:33:47.66	13,9	305	49,76	2	120							0,07		0,02	0	0	
DOSS	e		2	23:33:48.26	17,9	39	50,78	2	114							0,05		-0,06	0	0	

09/07/2013	06:36:26,12	46,0423	10,4648	5,11	0,9		0	0	2,6	90	0	2,6	D	0,2	0	M. RE CASTELLO (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	06:36:28.39	14	119	30,68	2	110							-0,28		0,02	0,7	0,8	
GAGG	e		2	06:36:32.86	38,5	83				98						0,11			0,9	0,8	
CARE	e		2	06:36:34.11	46,1	23				96						0,06			0,9	0,7	

09/07/2013	06:53:25,43	,	,											10	ALPI APUANE				M 2.5(l)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			3	06:53:25.43			49,45	2							126							
RNI			3	06:53:28.01			50,71	3							124							
DOSS			3	06:53:28.03			53,34	3							126							

09/07/2013	08:02:32,25	,	,												10	ALPI APUANE			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			3	08:02:32.25			58,47	2							171					
DOSS			3	08:02:33.91			64,21	3							167					
RNI			3	08:02:34.34											170					
GAGG			3	08:02:35.76			65,03	3							168					
PANI			3	08:02:36.96			67,87	3							169					
OZOL			3	08:02:40.84			70,8	3							168					
CARE			3	08:02:41.55											163					

QUATERLY BULLETTIN *July-September 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				

09/07/2013	08:31:04,92	,	,											10	ALPI APUANE			M 3.1(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	1	08:31:04.92			30,95	2							142					
RNI			2	08:31:06.35			33,34	3							141					
DOSS	e	d	1	08:31:06.48			34,27	3							141					
GAGG	e	d	2	08:31:08.50			36,47	3							139					
PANI			2	08:31:09.23			40,41	3							140					
CARE	e	d	2	08:31:13.22			43,32	2							141					
ZIAN			2	08:31:13.56			45,35	3							140					
OZOL	e	d	2	08:31:13.57			44,22	3							137					

09/07/2013	08:51:27,68	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	0	08:51:27.68			28,3	1							23					

09/07/2013	21:29:34,28	45,7566	10,8006	8,5300	0,2		0	0	0,6	90	0	0,6	B	0,08	0	MALCESINE (VR)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e		2	21:29:36.55	10,7	44	38,47	2	129							-0,08		0,02	0,1	-0,1

10/07/2013	15:04:12,76	46,1398	11,1861	5,78	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	0	15:04:15.54	15,2	131			111							0			0,6	0,8
GAGG	e	c	2	15:04:16.10	18,7	250			107							-0,01			0,7	0,4
DOSS	e	c	2	15:04:17.80	28,9	180			101							0			0,5	0,7
ZIAN	e	c	2	15:04:18.46	32,8	62			100							0			0	0

10/07/2013	18:54:56,61	,	,											10	ALPI APUANE	M 2.4(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	18:54:56.61			82,92	3							106					
DOSS			2	18:54:58.59			87,2	3							106					
RNI			3	18:54:58.87			85,43	3							106					
GAGG			3	18:55:00.07											106					
PANI			3	18:55:01.44											106					

11/07/2013	04:32:57,35	,	,											10	MONTEFELTRO			M 3.9(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS	e	d	3	04:32:57.35			91,77	3							284					
VARA			1	04:32:58.00			86,52	2							290					
PANI			2	04:32:59.46			89,24	3							286					
GAGG	e	d	2	04:33:00.75			35,91	3							283					
RNI			2	04:33:01.13			35,29	3							287					
ZIAN			2	04:33:02.56			35,02	3							290					
OZOL			1	04:33:05.57			40,45	3							282					
CARE	e	d	2	04:33:07.04			40,19	3							285					

QUATERLY BULLETTIN *July-September 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				

11/07/2013	06:29:50,27	,	,											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	06:29:50.27			52,22	2							30					
OZOL	e	c	1	06:29:50.29			52,6	2							30					

11/07/2013	08:03:11,19	,	,											10	MONTEFELTRO	M 2.7(l)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	08:03:11.19			39,07	3							133					
DOSS			3	08:03:12.90			44,81	3							131					

11/07/2013	12:09:05,83	,	,											10	MONTEFELTRO				M 3.2(l)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			2	12:09:05.83											167							
DOSS			3	12:09:06.02											159							
PANI			3	12:09:07.63											164							
RNI			3	12:09:09.11											165							
GAGG			3	12:09:09.50			40,25	3							160							
ZIAN			3	12:09:11.99											165							
OZOL			3	12:09:14.22			48,87	3							160							

11/07/2013	12:50:10,74	,	,												10	MONTEFELTRO			M 3.0(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	12:50:10.74			38,54	3							146					
DOSS			3	12:50:10.89			44,16	3							140					
PANI			3	12:50:12.62			41,44	2							145					
GAGG			3	12:50:13.46											139					
RNI			3	12:50:14.02			47,94	3							145					
OZOL			3	12:50:19.22			54,17	3							139					

11/07/2013	14:46:07,47	,	,											10	MONTEFELTRO			M 3.2(l)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			3	14:46:07.47			42,4	3								168				
VARA			3	14:46:07.95			35,31	3								171				
GAGG			3	14:46:11.44			44,11	3								167				
RNI			3	14:46:11.44			45,03	3								169				
ZIAN			3	14:46:14.14			42,82	3								170				
OZOL			3	14:46:16.64			51,44	3								166				

11/07/2013	15:07:32,29	,	,											10	MONTEFELTRO			M 2.8(l)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			3	15:07:32.29			62,25	3								168				
PANI			3	15:07:33.71			62,95	2								170				
GAGG			3	15:07:35.81												168				
RNI			3	15:07:37.07			68,9	3								171				
OZOL			3	15:07:40.82			74,15	3								168				

QUATERLY BULLETTIN *July-September 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				

11/07/2013	18:09:51,54	,	,											10		MONTEFELTRO	M 3.0(I)
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st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		3		18:09:51.54			78,68	3								171				
DOSS		3		18:09:51.69			85,41	3								168				
PANI		3		18:09:53.91			82,21	3								169				
GAGG		3		18:09:55.15												168				
RNI		3		18:09:56.71			89,08	3								168				
ZIAN		3		18:09:57.43			86,34	3								168				
OZOL		3		18:10:00.14			34,09	3								166				

11/07/2013	22:15:41,19	45,8780	10,9023	11,09	0,8		0	0	0,5	90	0	0,5	B	0,08	0	NAGO - TORBOLE (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
VARA	e	1		22:15:43.30	5,8	184	45	2	152							-0,03		0	0,8	0,6
DOSS	e	2		22:15:45.55	22,2	89	48,7	2	117							0,11		-0,05	0,8	1
GAGG	e	2		22:15:45.60	23,3	11	48,89	3	116							0,01		-0,14	0,8	0,5
RNI	e	2		22:15:45.82	24,5	298	49,52	2	114							0,03		0,15	0,5	0,6

12/07/2013	03:17:50,78	45,8843	11,1276	11,54	0,6		0	0	0,4	90	0	0,4	A	0,07	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	c	1	03:17:53.02	4,8	96	54,59	1	158							0,1		0,01	-0,2	0,1
VARA	i	c	1	03:17:54.74	19,1	250	57,52	2	121							0,14		-0,05	0,7	0,4
PANI	e	1		03:17:55.39	24,5	41			115							-0,02			0,1	0,3
GAGG	e	2		03:17:55.64	25,7	329	59,28	2	114							0,04		-0,08	0,6	0,6

12/07/2013	03:34:37,74	,	,											10		LUNIGIANA	M 3.4(I)
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st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	c	2	03:34:37.74			62,33	2							221					
RNI	e	c	2	03:34:39.20			64,56	3							222					
DOSS	e	c	2	03:34:39.24			66,21	2							219					
GAGG	e	c	1	03:34:41.38			66,9	2							221					
PANI	e	c	2	03:34:42.05			71,73	3							222					
CARE	i	c	2	03:34:46.07			74,47	3							213					
OZOL	e	c	2	03:34:46.45			75,81	3							218					
ZIAN	e	c	2	03:34:46.45			77,32	3							220					

12/07/2013	04:56:58,36	,	,											10		LUNIGIANA	M 2.7(I)
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st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		3		04:56:58.36			83,39	3												
DOSS		3		04:56:59.89			86,46	3												
RNI		3		04:57:00.46			26,97	3												
GAGG		3		04:57:01.90			28,35	3												
ZIAN		3		04:57:07.31			37,52	3												
CARE		3		04:57:07.51			34,63	3												
OZOL		3		04:57:07.77			36,1	3												

QUATERLY BULLETTIN *July-September 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				

12/07/2013	04:58:35,30	,	,											10	LUNIGIANA	M 3.3(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		3		04:58:35.30			60,16	3							201					
RNI		3		04:58:36.59			60,88	3							200					
DOSS		2		04:58:37.23			63,45	2							199					
PANI		3		04:58:38.51			68,32	3							198					
GAGG		2		04:58:38.95			64,45	2							200					
CARE		2		04:58:43.17			74,48	3							196					
OZOL		3		04:58:43.72			74,08	3							198					
ZIAN		2		04:58:44.64			74,71	3							199					

12/07/2013	10:21:02,98	,	,											0	OZOL					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
OZOL	i	c	1	10:21:02.98			4,88	1							26					

12/07/2013	19:32:14,73	,	,											10	PIANURA PADANA LOMB.	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		3		19:32:14.73			30,35	2							96					
DOSS		2		19:32:15.22			30,7	2							92					
RNI		2		19:32:17.91			35,3	2							94					
PANI		2		19:32:18.72			36,8	3							94					
GAGG		1		19:32:19.13			36,55	2							92					
ZIAN		2		19:32:22.64			42,35	2							94					
OZOL		3		19:32:24.31			46,44	2							91					
CARE		3		19:32:24.55			47,35	3							89					

12/07/2013	23:43:18,93	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	i	c	1	23:43:18.93			20,03	1							31					

13/07/2013	07:06:53,58	,	,											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	07:06:53.58			67,2	2							99					
DOSS			2	07:06:54.30			69,62	2							96					
RNI			2	07:06:56.71			73,75	3							98					
PANI			2	07:06:57.36			74,45	2							98					
GAGG	i	d	1	07:06:57.84			74,72	2							97					
ZIAN			3	07:07:01.07			20,9	2							98					
OZOL			3	07:07:03.05			24,66	3							95					
CARE			3	07:07:03.87			25,73	3							93					

QUATERLY BULLETTIN *July-September 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				

13/07/2013	10:24:09,62	,	,											10	LUNIGIANA				M 2.4(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA		3		10:24:09.62			35,14	3							120							
DOSS		3		10:24:11.02			38,49	3							115							
RNI		3		10:24:11.52			36,18	3							118							
GAGG		3		10:24:13.14			39,62	3							116							
PANI		3		10:24:14.21			43,28	3							118							
OZOL		3		10:24:18.11			47,15	3							115							
ZIAN		3		10:24:18.52			48,13	3							120							
CARE		3		10:24:19.38											112							

13/07/2013	14:46:11,90	46,6390	11,7688	13,1	2,8	2,6	0	0	0,4	90	0	0,4	C	0,2	0	SANTA MADDALENA (BZ)	M 2.6(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
ZIAN	i	d	1	14:46:19.74	43,3	201	25,49	3	107							0,11		-0,18	2,6	2,7
PANI	e	d	2	14:46:24.74	73,4	207				100						0,09			2,7	2,7
CARE	e		2	14:46:26.71	85,6	254				99						0,01			2,6	2,6
GAGG	e	d	2	14:46:27.15	87,8	225				98						0,08			2,7	2,8
DOSS	i	d	2	14:46:28.41	95,5	208				98						0,03			2,8	2,9
VARA	e		2	14:46:31.30	112,7	217				59						0,14			2,9	2,7

13/07/2013	18:48:02,06	,	,											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	18:48:02.06			45,24	3							216					
PANI	e	c	2	18:48:02.30			47,69	3							213					
DOSS	i	c	1	18:48:02.63											209					
VARA	e	c	2	18:48:05.16											216					
GAGG	i	c	2	18:48:05.81			55,57	3							209					
OZOL	e	c	2	18:48:07.10			59,43	3							211					
RNI	e	c	2	18:48:08.27											212					
CARE	i	c	2	18:48:10.20											208					

13/07/2013	22:05:26,77	45,8606	10,5283	9,36	1	1,6	0	0	1	90	0	1	C	0,13	0	STORO (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			
RNI	i	c	0	22:05:29.96	15,2	29	32,15	2	122						22	0,13		-0,06	1,2	1,2			
VARA	e	d	2	22:05:31.76	28,9	98	36,05	3	108							-0,2		0,05	0,9	0,8			
CARE	e		2	22:05:37.85	64	12				98						0,02			0	1,1			

14/07/2013	23:51:28,11	46,6338	11,7620	11,19	1,3		0	0	0,5	90	0	0,5	B	0,14	0	SANTA MADDALENA (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	i	d	2	23:51:35.74	42,6	201	41,47	3	105							0,11		-0,03	1,1	1,2
OZOL	e		2	23:51:38.93	60,2	245			101							0,35			1,2	1,2
PANI	e		2	23:51:40.53	72,7	207			99							-0,15			1,1	1,3
DOSS	e		2	23:51:44.43	94,7	208			97							0,01			1,5	1,4
RNI	e		2	23:51:47.85	113,9	230			96							0,18			1,4	1,5

QUATERLY BULLETTIN *July-September 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			

15/07/2013	00:43:01,87	46,6625	10,7975	9,17	1,6	2	0	0	0,4	90	0	0,4	C	0,18	0	SILANDRO (BZ)			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	
CARE	i	c	0	00:43:06.95	27,5	196	10,38	2	108						35	0,12		-0,33	1,5	1,5	
OZOL	i	d	0	00:43:08.28	34,8	146	12,54	2	105						46	0,26		-0,28	1,5	1,6	
GAGG	e		1	00:43:13.33	65,5	169			98							0,15			1,8	1,5	
ZIAN	e	d	2	00:43:14.61	72,8	126			97							0,19			1,3	1,3	
RNI	e	c	2	00:43:15.12	77	190			97							0			1,5	1,6	

15/07/2013	10:30:30,50	46,2038	11,0246	13,06	0,8		0	0	0,5	90	0	0,5	B	0,13	0	SPORMAGGIORE (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	10:30:33.94	14,3	201	36,57	2	132							0,12		0,17	0,8	0,5			
OZOL	e	d	2	10:30:35.02	22,3	5	38,24	2	120							0,11		-0,12	0,9	0,7			
CARE	e	c	1	10:30:37.08	35,2	314	41,71	2	110							0,16		-0,21	0,7	0,6			
DOSS	e		2	10:30:37.25	38,2	161	42,67	2	109							-0,15		-0,11	0,9	0,9			
RNI	e		2	10:30:37.70	39,8	231			108							0,04			0	0			
ZIAN	e		2	10:30:38.10	42,3	79			107							0,03			1	1			

15/07/2013	15:50:56,75	46,1331	11,2223	2,91	0,9		0	0	0	90	0	0	C	0,05	2	LONA - LASES (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e	c	2	15:50:58.90	12,6	136				103						-0,07			0,6	0,7
GAGG	e		2	15:51:00.37	21,1	255				98						-0,03			1,1	0,7
DOSS	e		2	15:51:01.66	28,3	185				96						0,05			0	0,9
ZIAN	e		2	15:51:02.08	30,7	59				95						0,05			0,7	0

15/07/2013	16:45:53,67	46,1361	11,1901	2,24	1		0	0	0,5	90	0	0,5	C	0,09	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	1	16:45:56.24	14,7	130				99						0,03			1	1,2
GAGG	i	c	2	16:45:56.77	18,8	252				97						-0,14			1	1
DOSS	i	c	1	16:45:58.48	28,5	180				94						-0,07			0,9	1
OZOL	e		2	16:45:59.09	31,6	340				94						0,01			1	1
ZIAN	i	c	1	16:45:59.26	32,7	62				94						-0,02			0,9	0,7
VARA	e		2	16:46:00.93	41,3	213				93						0,19			1,2	0,9

15/07/2013	17:06:05,78	,	,											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
DOSS			3	17:06:05.78											94					
VARA			2	17:06:06.55			32,65	3							95					
PANI			2	17:06:07.82			35,36	3							94					
GAGG			3	17:06:10.12											93					
ZIAN			3	17:06:11.04											96					

15/07/2013	18:32:33,36	45,8018	11,3921	11,24	1,7	2,4	0	0	0,4	90	0	0,4	B	0,18	0	ARSIERO (VI)			M 1.8(O)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
DOSS	i	c	0	18:32:37.36	18	299	40,18	2	122						60	0,37		0,36	1,7	2	
PANI	i	d	0	18:32:38.82	28	351	42,58	2	112						54	0,3		0,03	2,2	2	
VARA	i	c	1	18:32:40.26	38,6	274			106							0,03			1,6	1,5	
GAGG	i	c	1	18:32:41.45	45,9	313	47,3	2	104						47	0,01		-0,45	1,8	1,8	
ZIAN	i	d	1	18:32:42.90	54,4	14			102							0,05			1,9	1,7	
RNI	e		2	18:32:43.97	62,9	288			100							-0,32			1,4	1,4	
OZOL	e		2	18:32:45.87	71,9	339			99							0,08			2	1,8	

QUATERLY BULLETTIN *July-September 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				

15/07/2013	21:36:31,24	,	,											10	LUNIGIANA				M 2.4(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA		3		21:36:31.24			55,68	2							120							
DOSS		3		21:36:32.72			60,13	3							116							
RNI		3		21:36:32.76			57,25	3							119							
GAGG		3		21:36:34.69			60,17	3							116							
PANI		3		21:36:35.06			64,75	3							117							
OZOL		3		21:36:39.63			69,15	3							114							
ZIAN		3		21:36:42.53			72,66	3							118							

16/07/2013	13:57:28,09	45,5945	11,0256	13,89	1,2		0	0	1,4	90	0	1,4	C	0,18	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	13:57:33.43	27,6	339	37,75	3	117							0,06		0,26	1	0,9	
DOSS	e		2	13:57:34.63	34,2	22	39,11	2	112							0,24		-0,2	1,2	1,2	

16/07/2013	15:55:24,73	46,1386	11,1820	1,3	1,4	1,8	0	0	0,4	90	0	0,4	C	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	i	c	0	15:55:27.35	15,3	130			95						31	-0,01			1,2	1,5
GAGG	i	c	2	15:55:27.85	18,3	250			94						23	-0,02			1,6	1,2
DOSS	i	c	1	15:55:29.58	28,8	179			93						31	-0,07			1,2	1,3
OZOL	e		2	15:55:30.05	31,1	341			92							0,01			1,5	1,3
ZIAN	i	c	1	15:55:30.37	33,2	63			92							-0,03			1,3	1,1
VARA	e		2	15:55:31.92	41,2	212			92							0,15			1,3	1,2

16/07/2013	20:51:50,78	,	,											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		3		20:51:50.78											108					
OZOL		2		20:51:51.90			68,3	2							106					
PANI		2		20:51:55.69			79,18	2							104					
GAGG		3		20:51:57.11			77,63	2							103					
DOSS		2		20:51:58.57			80,82	1							102					
VARA		3		20:52:01.06			25,11	3							102					
RNI		3		20:52:01.28			24,89	3							101					

17/07/2013	12:53:09,00	,	,											10	MONTE CONERO			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		2		12:53:09.00			43,89	2								162				
VARA		3		12:53:09.58			45,76	3								169				
PANI		2		12:53:09.76			44,79	3								167				
GAGG		2		12:53:12.51												162				
RNI		3		12:53:13.31			52,33	3								166				
OZOL		3		12:53:15.50			55,5	3								163				

17/07/2013	14:42:46,88	46,1285	11,1900	4,32	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	14:42:49.41	14,1	128				107						0			0,5	0,6	
GAGG	e	c	2	14:42:50.14	18,6	254				103						0			0,4	0,4	
DOSS	e	c	2	14:42:51.66	27,6	180				99						0			0,6	0,7	
ZIAN	e		2	14:42:52.60	33,2	60				97						0			0,8	0	

QUATERLY BULLETTIN *July-September 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				

17/07/2013	15:00:07,27	46,1205	11,2348	3,84	1		0	0	0,5	90	0	0,5	C	0,04	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	15:00:09.24	10,9	135				109						-0,01			0,9	1
GAGG	e		2	15:00:11.06	21,7	259				100						0,02			1	0,9
DOSS	e	c	2	15:00:11.89	27	188				98						-0,03			0,7	0,9

17/07/2013	20:47:20,12	,	,												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
RNI			2	20:47:20.12			34,01	3							108					
GAGG			3	20:47:23.77			39,85	2							105					
VARA			2	20:47:24.31			42,16	3							105					
DOSS			3	20:47:27.63			47,24	2							103					

17/07/2013	21:21:58,75	,	,											10	MAR ADRIATICO C-SETT	M 3.2(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS	e	d	2	21:21:58.75			93,95	2							179					
VARA			2	21:21:59.63			96,01	2							187					
PANI	i	d	1	21:21:59.84			96,56	3							184					
ZIAN			2	21:22:01.27			37,92	3							188					
GAGG			2	21:22:02.58			40,27	3							181					
RNI			2	21:22:03.20			42,28	1							184					
OZOL	i	d	2	21:22:05.47			45,54	2							180					

18/07/2013	00:57:56,79	,	,											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			2	00:57:56.79			58,66	1							29					

18/07/2013	07:01:30,36	,	,											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	07:01:30.36			33	1							34					

18/07/2013	19:33:46,62	46,3146	10,4185	1,73	1,1		0	0	0,7	90	0	0,7	D	0,16	0	VAL GRANDE (SO)			M 1.1(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	i	c	1	19:33:50.84	24,7	60	54,34	2	94							-0,01		0,19	0,9	0,9	
RNI	e	d	2	19:33:53.74	40,3	157	58,73	2	92							0,22		-0,17	1	1,2	
OZOL	e		2	19:33:55.09	49,7	79			92							-0,04			1,1	1,1	

19/07/2013	10:11:01,83	46,1836	11,2006	6,1	0,8		0	0	0,2	90	0	0,2	C	0,02	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
GAGG	i	c	1	10:11:05.70	21,8	239				106						0,01			0,8	0,9
OZOL	e		2	10:11:06.52	27	335				103						-0,04			0,8	0,7
ZIAN	e	c	1	10:11:07.02	29,8	70				102						-0,01			0,9	1
DOSS	i	c	1	10:11:07.70	33,8	182				100						0,01			0,8	0,8
CARE	e		2	10:11:09.94	47,1	305				97						-0,01			0	0,7

QUATERLY BULLETTIN July-September 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					

19/07/2013	11:59:45,22	45,7368	11,0806	7,89	0,7		0	0	0,3	90	0	0,3	B	0,05	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	c	1	11:59:48.49	17,4	305	51,05	2	114							0		0,01	0,9	0,9			
DOSS	e	d	1	11:59:48.67	18	28	51,17	2	114							0,09		-0,02	0,4	0,4			
GAGG	e	c	2	11:59:52.04	39,7	346				101						-0,09			0,8	0			

19/07/2013	13:25:54,80	,	,											10	FRIGNANO			M 2.4(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	13:25:54.80			79,65	2							104					
DOSS			3	13:25:55.14			82,62	3							106					
PANI			3	13:25:57.55											104					
RNI			3	13:25:58.64			80,54	3							104					
GAGG			3	13:26:01.51											104					

20/07/2013	03:31:20.89	,	,											10	HERISAV [CH]			M 3.5(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			2	03:31:20.89			42,49	2							199					
RNI	e	c	1	03:31:27.16			53,09	2							202					
GAGG			2	03:31:28.71			54,05	3							200					
ZIAN			2	03:31:30.10			58,3	1							203					
PANI			2	03:31:30.70			59,72	2							201					
VARA			2	03:31:31.51			59,93	2							202					
DOSS			2	03:31:32.97			61,57	2							197					

20/07/2013	06:18:46,29	46,2910	12,1091	9	1,9		0	0	1,1	90	0	1,1	C	0,21	0	CIME S. SEBAST. (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	06:18:53.49	42,1	268	59,23	3	102							-0,16		-0,16	1,8	1,9
PANI	e		2	06:18:57.89	65,5	246			98							0,3			1,7	2
DOSS	e		2	06:19:00.92	84,6	237			96							0,09			2	2,1
GAGG	e		3	06:19:02.23	91,8	255			96							0,18			1,8	2
VARA	e		2	06:19:05.04	107,1	241			95							0,37			1,9	1,8
CARE	e		2	06:19:05.27	109,7	278			95							0,17			1,9	1,9

20/07/2013	14:06:23,61	46,4511	12,2711	1,43	1,4		0	0	0,3	90	0	0,3	C	0,19	0	MONTE ANTELAO (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	c	2	14:06:33.75	57,9	250				91						0,25			1,6	1,6	

20/07/2013	19:50:26,06	46,8328	10,0450	7,91	2,6		0	0	1,9	90	0	1,9	D	0,19	0	PLATTEN [CH]		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
CARE	e	d	1	19:50:37.56	67,5	132			97							-0,12			2,7	2,5
RNI	e	c	2	19:50:44.21	104,6	155			94							0,21			2,6	2,8
GAGG	e		2	19:50:44.75	108,9	140			94							0,02			2,3	2,2
VARA	e		3	19:50:48.16	129,7	150			93							-0,12			2,4	2,2

20/07/2013	23:15:36,31	46,3121	10,4208	2,99	0,5		0	0	0,6	90	0	0,6	D	0,12	0	VAL GRANDE (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	1	23:15:40.52	24,7	60	44,01	2	97							-0,04		0,13	0,5	0,4			

QUATERLY BULLETTIN July-September 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			

21/07/2013	01:33:12,29	,	,											10	MONTE CONERO	M 4.9(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
DOSS	i	c	1	01:33:12.29			71,21	3							480					
VARA			2	01:33:13.43											484					
PANI	i	c	1	01:33:13.68											479					
ZIAN	i	c	2	01:33:15.12			69,97	3							484					
GAGG	i	c	1	01:33:16.12			83,73	3							478					
RNI	e	c	2	01:33:16.81			72,94	3							476					
CARE	i	c	1	01:33:22.01			87,67	3							482					

21/07/2013	03:08:13,03	,	,											10	MONTE CONERO			M 4.0(l)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS		2	03:08:13.03				49,79	2							336					
PANI		2	03:08:13.82				50,89	2							337					
VARA		2	03:08:13.99				50,19	2							336					
ZIAN		2	03:08:15.44				52,52	2							337					
GAGG		2	03:08:16.92				54,95	3							335					
RNI		2	03:08:17.67				56,51	2							333					
CARE		2	03:08:22.49				64,78	3							328					

21/07/2013	08:46:45,74	45,9090	10,8448	9,02	0,4		0	0	0,7	90	0	0,7	C	0,1	0	RIVA DEL GARDA (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		08:46:48.08	10,1	157				132						0,03			0,2	0	
GAGG	e	2		08:46:49.68	21,3	24	52,75	2	113							-0,01		-0,03	0,6	0,5	
DOSS	e	2		08:46:50.76	26,9	97	54,24	2	109							0,17		-0,13	0,5	0,6	

22/07/2013	10:12:57,27	46,1836	11,2003	7,96	0,8		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		2	10:13:00.61	18,1	145				114						-0,03			0,5	0,8	
GAGG	i	c	1	10:13:01.22	21,7	239				110						0			0,7	0,7	
OZOL	e		2	10:13:02.11	27	335				106						0,04			0,7	0,5	
ZIAN	e		2	10:13:02.54	29,8	70				105						0			0,9	0,7	
DOSS	e	c	1	10:13:03.24	33,8	182				103						0,04			0,6	0,9	
CARE	e		2	10:13:05.36	47,1	305				100						-0,07			0	0	

22/07/2013	15:00:44,87	46,1276	11,2198	2,74	0,8		0	0	0,3	90	0	0,3	C	0,04	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	e	c	1	15:00:47.01	12,3	134				103						-0,02			0,7	1
GAGG	e		2	15:00:48.44	20,8	256				98						-0,01			0,9	0,6
DOSS	e		2	15:00:49.67	27,6	185				96						0,05			0,8	0,8
ZIAN	e		2	15:00:50.29	31,2	58				95						0,06			0,8	0,8

22/07/2013	19:41:37,80	,	,											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	19:41:37.80			40,18	1							38							
DOSS	i	c	1	19:41:38.19			40,65	1							38							

QUATERLY BULLETTIN *July-September 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			

22/07/2013	21:10:05,72	,	,											10	LUNIGIANA	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
VARA		3		21:10:05.72			29,86	2							132					
DOSS		3		21:10:07.90			34,28	3							129					
RNI		3		21:10:08.65			34,31	3							131					
GAGG		3		21:10:09.51			37,11	3							128					
ZIAN		3		21:10:15.55			45,6	2							130					
OZOL		3		21:10:15.94			44	3							127					

22/07/2013	22:09:17,94	46,3136	11,3120	0,14	0,4		0	0	0	90	0	0	C	0,11	0	EGNA (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	1		22:09:21.54	19,8	102	23,94	2	90							0,22		-0,02	0	0	

23/07/2013	05:21:39,25	,	,											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	i	d	0	05:21:39.25			39,62	2							23					

23/07/2013	10:14:52,92	,	,											1	GAGG,DOSS				EXPL??	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
GAGG	i	c	1	10:14:52.92	0,2	215	54,26	2	179							-0,02		0,04	-0,6	-0,5
DOSS	e		2	10:14:56.57	28,9	142	60,39	3	108							0,07		-0,16	0,6	0,7

23/07/2013	10:57:09,28	45,7306	10,7845	6,65	0,6		0	0	2,5	90	0	2,5	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	2		10:57:11.70	13,7	39				116						-0,2			0,4	0,4	
RNI	e	2		10:57:14.88	30,5	336				102						0,25			0,5	0,7	

23/07/2013	14:32:36,61	46,1390	11,1550	11,41	1,2		0	0	0,8	90	0	0,8	C	0,1	2	TRENTO	EXPL?			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
GAGG	e		1	14:32:39.74	16,4	248	42,91	2	125							-0,28		0,23	1,2	1
PANI	i	c	1	14:32:40.06	17	125			124							-0,05			1,2	1,2
DOSS	i	c	1	14:32:41.97	28,9	175			112							0,05			1,1	1,3
OZOL	e		2	14:32:42.20	30,4	345			111							0,03			1,2	1,2
CARE	e		1	14:32:44.98	47,4	312			104							0,03			0,9	0,9

23/07/2013	15:23:24,69	46,1253	11,2146	4,18	0,9		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	15:23:26.94	12,5	132				109						0			0,9	1
GAGG	e		1	15:23:28.23	20,3	257				102						-0,01			0,8	0,7
DOSS	e	c	1	15:23:29.43	27,3	184				99						0,01			0,7	0,8
ZIAN	e		2	15:23:30.11	31,7	58				98						-0,05			0,9	1

23/07/2013	17:20:34,08	,	,											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	17:20:34.08			34,39	1							21					

QUATERLY BULLETTIN *July-September 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				

23/07/2013	19:31:02,57	,	,											10	MAR ADRIATICO C-SETT		M 3.0(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS		3		19:31:02.57			39,51	3								180				
PANI		2		19:31:03.04			38,32	3								187				
VARA		3		19:31:03.22			40,03	3								188				
ZIAN		2		19:31:04.62			39,96	3								187				
GAGG		2		19:31:05.76			43,94	3								180				
RNI		3		19:31:07.21			46,64	3								186				
OZOL		2		19:31:08.63			48,25	1								182				
CARE		2		19:31:11.33			53,19	3								176				

24/07/2013	13:35:41,14	46,6098	10,5780	11,43	2,3	2,2	0	0	0,8	90	0	0,8	B	0,25	0	LASA (BZ)			M 2.2(O)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
CARE	i	d	0	13:35:45.62	22,5	156	48,43	2	117						48	0,16		-0,4	2,4	2,3	
OZOL	i	d	1	13:35:49.00	43	122	54,15	2	105						47	0,25		-0,53	2,4	2,4	
GAGG	e	d	2	13:35:52.60	65,4	153			100							0,1			2	1,9	
RNI	e	d	1	13:35:53.29	70	177			99							0,02			2,5	2,6	
ZIAN	e	c	2	13:35:55.95	84,3	116			98							0,27			2,4	2,2	
PANI	e		2	13:35:55.96	85,2	137			98							0,13			2	2,1	
DOSS	e		2	13:35:57.36	93,8	150			97							0,06			2	2	

24/07/2013	20:48:03,52	,	,											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		2		20:48:03.52			4,27	1							20					

24/07/2013	21:50:31,32	,	,												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	1	21:50:31.32			45,76	1							115					
DOSS	e	d	1	21:50:31.66			45,61	2							114					
RNI			2	21:50:34.96			52,71	3							114					
GAGG	i	d	1	21:50:35.89			52,78	2							116					
ZIAN	i	d	1	21:50:39.09			57,89	1							114					
OZOL	e	d	1	21:50:41.18			62,51	2							114					

25/07/2013	05:01:44,06	,	,												10	ALPI APUANE	M 2.8(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		2		05:01:44.06			69,68	1							164					
DOSS		3		05:01:44.97			73,05	2							162					
RNI		3		05:01:45.11			69,62	3							163					
GAGG		2		05:01:47.15			74,86	3							161					
OZOL		3		05:01:52.06			83,31	1							161					
ZIAN		3		05:01:52.30			84,1	2							164					

QUATERLY BULLETTIN *July-September 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				

25/07/2013	06:35:41,41														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		06:35:41.41			55,57	3							130					
DOSS		2		06:35:42.65			58,17	2							130					
RNI		3		06:35:44.55			61,7	2							129					
GAGG		3		06:35:46.05			63,67	3							130					
ZIAN		3		06:35:50.17			70,42	2							128					
OZOL		3		06:35:51.04			73,35	3							127					

25/07/2013	13:53:59,58	,	,											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		13:53:59.58			62,08	2							33					

25/07/2013	15:29:30,83	46,1283	11,2146	5,33	0,8		0	0	0,9	90	0	0,9	C	0,06	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	15:29:33.04	12,7	133	35,05	2	113							-0,14		0,03	0,7	1
GAGG	e		2	15:29:34.43	20,4	256			105							-0,01			0,6	0,7
DOSS	e	c	1	15:29:35.69	27,7	184			101							0,04			0,7	0,6
ZIAN	e		2	15:29:36.34	31,5	59			100							0,04			0,8	0,8

26/07/2013	00:27:40,75	45,7571	11,0375		9,9	0,8	1,9	0	0	0,3	90	0	0,3	B	0,11	0	ALA (TN)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	d	1	00:27:43.77	13,4	305	45,9	2	126						32	0,17		0,08	0,9	0,8
DOSS	e		1	00:27:44.38	18	41	46,96	2	119							0,11		-0,05	0,3	0,4
GAGG	e		2	00:27:47.39	36,8	350	52,16	2	105							0,12		-0,19	1	0,8
RNI	e		2	00:27:47.76	40,7	308				104						-0,15			0,8	0,7

26/07/2013	01:11:03,08	,	,											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		01:11:03.08			17,67	3							96					
DOSS		3		01:11:04.20			17,84	2							90					
RNI		3		01:11:06.36											94					
GAGG		3		01:11:07.30			24,39	2							92					
OZOL		3		01:11:12.53			33,4	3							90					

26/07/2013	10:16:20,12	46,1833	11,2043	6,68	0,8		0	0	0	90	0	0	B	0,01	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
GAGG	i	c	1	10:16:24.04	22	240				107						-0,01			0,8	0,8
OZOL	e		2	10:16:24.90	27,1	334				104						0,01			0,8	0,6
ZIAN	i	c	1	10:16:25.29	29,5	70				103						0			0,9	0,9
DOSS	e	c	2	10:16:26.00	33,7	182				101						0,01			0,8	0,8
CARE	e		2	10:16:28.29	47,4	304				98						-0,01			0	0,7

QUATERLY BULLETTIN July-September 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			

26/07/2013	10:35:41,52	46,7868	12,1715	13,88	1,6	1,6	0	0	0,9	90	0	0,9	B	0,25	0	MONGUELFO (BZ)			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
ZIAN	e	1		10:35:54.19	73,5	219				101						-0,11			1,5	1,5
OZOL	e	2		10:35:57.86	95,8	244				98						-0,21			1,9	2
PANI	e	2		10:35:59.12	104,1	218				59						-0,33			1,6	1,6
CARE	e	2		10:36:01.62	119,9	250				59						-0,16			1,9	1,7
GAGG	e	2		10:36:02.13	121,7	230				59						0,1			1,6	1,6
DOSS	e	2		10:36:02.68	126	217				59						0			1,8	1,7

26/07/2013	16:57:15,91	46,1316	11,1815	5,16	0,8		0	0	0,1	90	0	0,1	B	0,01	2	ALBIANO (TN)				EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
PANI	i	c	0	16:57:18.60	14,9	127				109						0			0,8	1	
GAGG	i	c	1	16:57:19.12	18	253				106						0			0,7	0,6	
DOSS	e	c	1	16:57:20.78	28	179				100						0			0,7	0,9	
ZIAN	e		1	16:57:21.71	33,6	61				99						-0,01			0,8	0,6	

27/07/2013	01:34:20,25	45,7126	10,8106	7,12	0,3		0	0	0,6	90	0	0,6	B	0,06	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		01:34:23.03	14,3	28	25,09	2	117							0,05		-0,01	0,4	0,2	

27/07/2013	23:24:47,48	46,6033	10,3200	7,03	0,8		0	0	1	90	0	1	C	0,08	0	ACQUA 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	23:24:53.67	35,1	124	58,23	2	101								0,07		-0,15	0,7	0,4
OZOL	e	2	23:24:58.02	60,4	112				97							0,14			0,8	0,8

29/07/2013	02:39:07,03	45,5595	10,5101	6,43	2	2	0	0	1,2	90	0	1,2	C	0,19	0	MANERBA GARDA (BS)			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
VARA	e		2	02:39:14.48	42,2	45	20,16	2	99							0,15		0,13	2,2	2,2
RNI	e		2	02:39:15.44	47,6	11	21,92	2	98						38	0,19		0,26	2,1	2,1
DOSS	e	c	1	02:39:17.62	63,7	56			96						45	-0,36			2,1	2
GAGG	e		2	02:39:18.94	67,9	31			95							0,25			2,1	2
ZIAN	e		2	02:39:26.17	114,1	46			93							-0,4			2,3	2,1

29/07/2013	05:05:40,44	45,8261	11,0196	13,13	0,8	0,8	0	0	0,6	90	0	0,6	B	0,13	0	ROVERETO (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS	i	c	0	05:05:43.96	14,4	65	46,42	2	132						13	0,19		0,04	0,7	0,8
GAGG	e	d	1	05:05:45.89	29	351	49,91	2	114							0,01		-0,21	0	0,6
ZIAN	e		2	05:05:51.76	65,4	40			101							-0,08			0,9	0,7
CARE	e		2	05:05:52.76	71	339			100							-0,02			0	1

29/07/2013	14:35:27,53	46,1356	11,2136	1,28	1,1		0	0	0,7	90	0	0,7	C	0,1	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	14:35:29.66	13,3	135	31,65	2	95							-0,15		0,06	1	1,1
GAGG	e		2	14:35:31.15	20,5	254			94							0,1			0,8	0,7
DOSS	i	c	1	14:35:32.29	28,5	184	36,2	2	93							-0,11		0	1	0,8
ZIAN	e		2	14:35:32.87	31,2	60			92							0,01			1	0,8

QUATERLY BULLETTIN *July-September 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			

30/07/2013	01:45:45,76	,	,											10	ALPI APUANE			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		01:45:45.76			71,27	3							163					
DOSS		3		01:45:47.30			74,98	3							163					
RNI		3		01:45:47.57			71,85	3							163					
OZOL		3		01:45:53.84			84,71	3							159					
ZIAN		3		01:45:55.31			85,8	3							161					

30/07/2013	10:06:47,40	46,1405	11,1856	4	1,1		0	0	0,6	90	0	0,6	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	10:06:50.11	15,2	131				105						0,01			1,2	1,3	
GAGG	i	c	1	10:06:50.54	18,7	250				102						-0,12			1	1	
DOSS	e	c	2	10:06:52.30	29	180				98						-0,1			1	1	
OZOL	e		2	10:06:52.84	31	341				97						0,1			1	1,1	
ZIAN	e	c	1	10:06:53.05	32,8	63				97						0			1,1	0,9	
VARA	e	c	1	10:06:54.75	41,5	213				96						0,22			1,1	0	
CARE	e		2	10:06:55.78	49,1	310				95						-0,05			1	0,8	

30/07/2013	10:14:15,60	46,1375	11,1865	2,12	1		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	1	10:14:18.19	15	130				98						0,01			0,9	1,1
GAGG	i	c	2	10:14:18.78	18,6	251				97						-0,02			0,8	0,8
DOSS	i	c	1	10:14:20.42	28,6	180				94						-0,08			0,8	0,9
ZIAN	e		2	10:14:21.24	32,9	62				94						0,01			1,1	0,9
VARA	e		2	10:14:22.76	41,3	213				93						0,1			1	0,9
CARE	e		2	10:14:24.06	49,4	310				92						0,01			0	0

30/07/2013	14:58:54,76	46,1380	11,1788	0,33	1,1		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	1	14:58:57.35	15,5	129				91						-0,05			1	1,2
GAGG	e	c	2	14:58:57.85	18,1	250				91						0,01			1,1	0,8
DOSS	e	c	1	14:58:59.55	28,7	178				91						-0,11			0,8	1
ZIAN	e		2	14:59:00.42	33,4	63				91						-0,05			1	0,9
CARE	e		2	14:59:03.15	48,9	311				90						0,04			1	0,8

31/07/2013	09:31:08,85	46,6861	10,6426	11,03	3,1		0	0	0,6	90	0	0,6	C	0,22	0	VAL MAZIA (BZ)			M 2.9(O)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
CARE	i	c	1	09:31:14.33	29,4	172	17,9	2	111							0,11		-0,5	3,4	3,2	
GAGG	e		2	09:31:21.22	71,3	160			99							0,04			3,1	2,8	
RNI	i	c	1	09:31:22.36	78,4	181			98							-0,03			3,1	3,2	
ZIAN	e		2	09:31:23.54	84,1	123			97							0,19			2,6	2,8	
PANI	e	c	2	09:31:24.34	88,5	143			97							0,25			3	2,9	
VARA	e		2	09:31:25.29	97,6	168			96							-0,35			3,1	3	
DOSS	e		2	09:31:25.93	99	155			96							0,05			2,9	2,8	

31/07/2013	09:47:33,08	46,6795	10,6440	10,6	0,6		0	0	0	90	0	0	C	0	0	VAL MAZIA (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	09:47:38.30	28,6	172				110						0			0,6	0,6	

QUATERLY BULLETTIN *July-September 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			

31/07/2013	14:43:47,42	46,0246	10,4918	2,24	1,1		0	0	1,8	90	0	1,8	C	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
RNI	i	c	1	14:43:49.35	11,3	116				101						-0,03			0,8	1
CARE	e		2	14:43:55.55	47,2	20				93						0,06			0	0,9

31/07/2013	16:04:16,93	46,1421	11,1806	3,19	1		0	0	0,4	90	0	0,4	C	0,05	2	ALBIANO (TN)				EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
PANI	i	c	1	16:04:19.69	15,7	130				101						0,02			1	1,1	
GAGG	e	c	1	16:04:20.09	18,4	249				100						-0,03			0,9	0,7	
DOSS	e	c	2	16:04:21.90	29,2	179				96						-0,05			0,8	1	
ZIAN	e	c	1	16:04:22.60	33,1	63				96						-0,01			1	0,7	
VARA	e		2	16:04:24.18	41,5	212				94						0,13			1,2	1	

01/08/2013	05:01:20,39	46,5541	10,3366	10,09	0,9	1,4	0	0	0,9	90	0	0,9	C	0,1	0	GIOGO S. MARIA (SO)			M 1.0(S)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e		2	05:01:26.16	31,2	118	30,22	2	108							0,16		-0,16	0,9	0,7

01/08/2013	09:31:50,37	,	,												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
VARA	i	d	2	09:31:50.37			69,72	2												
RNI			2	09:31:51.73			71,74	2												
DOSS			2	09:31:52.01			73,15	2												
GAGG			2	09:31:53.68			74,91	2												
PANI			3	09:31:55.06			76,22	3												
CARE			2	09:31:58.67			82,71	2												

02/08/2013	13:23:24,25	,	,											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	d	0	13:23:24.25			25,43	1							30					

03/08/2013	12:00:40,22	45,9383	11,1540	14,9	1,3	1,1	0	0	0,6	90	0	0,6	B	0,15	0	BESENELLO (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
DOSS	i	d	0	12:00:43.26	7	157	45,21	2	155						17	0,23		-0,02	1,1	1,3
PANI	i	c	0	12:00:44.53	18,8	48	47,33	2	128						12	0,21		-0,18	1,3	1,5
GAGG	i	c	0	12:00:44.78	22,1	317			124						15	0			0,9	0,7
VARA	e	d	2	12:00:45.08	23,6	238	48,51	2	122							0,1		-0,19	1,2	1,1
ZIAN	i	c	0	12:00:49.08	49,1	40			107							0,09			1,6	1,6

03/08/2013	12:25:39,21	45,9503	11,1368	11,3	0,5		0	0	0,6	90	0	0,6	B	0,06	0	BESENELLO (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	d	1	12:25:41.69	8,8	153	43,62	2	142							0,03		0,05	0,1	0,2	
PANI	e	c	0	12:25:42.97	19	54	45,87	2	121							-0,01		-0,06	0,2	0,5	
GAGG	e		2	12:25:43.22	20,2	317			119							0,05			0,6	0,4	
VARA	e		2	12:25:43.67	23,2	233	46,92	2	116							0,04		-0,15	0,7	0,4	

QUATERLY BULLETTIN *July-September 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			

03/08/2013	18:37:59,60	46,0635	12,1696	17,26	1	1	0	0	2,2	90	0	2,2	C	0,21	0	MEL (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	18:38:09.18	52,5	297	16,18	2	108							0,14		-0,23	1,1	1,2
DOSS	e		3	18:38:13.70	78,7	255				102						0,32			1,2	1,2

04/08/2013	21:27:42,10	,	,											0	ZIAN					
st_name	p_rem	m	w_p	time_s	dist	azm	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	21:27:42.10			42,55	1							31					

05/08/2013	00:41:54,98	45,6515	11,0976	6,16	0,6		0	0	0,6	90	0	0,6	B	0,12	0	SELVA DI PROGNO (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	d	2	00:41:59.41	24,9	321	62,91	2	104							0,04		0,11	0,6	0,4	
DOSS	e		2	00:41:59.74	26,4	16	63,11	2	103							0,13		-0,11	0,4	0,4	

05/08/2013	18:34:52,84	46,1606	12,3386	1,93	1,4		0	0	1,2	90	0	1,2	D	0,19	0	PUOS D' ALPAGO (BL)				M 1.1(O)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
ZIAN	e		2	18:35:03.48	61,2	282				92						0,17			1,7	1,5	
CARE	e		3	18:35:15.21	129,9	283				91						0,17			1,6	1,8	

06/08/2013	06:41:34,99	,	,											10	PARMENSE				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	e	d	2	06:41:34.99			52,93	2														
RNI	e	d	2	06:41:36.32			55,16	2														
DOSS			2	06:41:36.56			56,18	2														
GAGG			3	06:41:38.23			59,99	3														
PANI	e	d	2	06:41:39.64			61,63	3														
CARE			2	06:41:43.16			67,51	3														
ZIAN			2	06:41:44.60																		

06/08/2013	07:03:53,23	,	,											10	PARMENSE			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			2	07:03:53.23			71,12	3							116					
RNI			3	07:03:54.53			73,91	3							116					
DOSS			2	07:03:54.98			75,12	3							114					
GAGG			3	07:03:56.50			78,21	3							114					
PANI			3	07:03:57.64											114					
CARE			3	07:04:02.28			26,16	3							110					

06/08/2013	10:34:47,00	,	,											10	FRIGNANO				M 2.6(I)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			3	10:34:47.00			65,14	3							133					
VARA			2	10:34:47.55			67,31	3							135					
GAGG			3	10:34:49.61			69,67	3							133					
RNI			2	10:34:49.95			71,06	3							134					
PANI			3	10:34:50.46			71,32	3							133					
ZIAN			2	10:34:53.84			76,75	2							135					
CARE			3	10:34:56.16			78,8	3							127					

QUATERLY BULLETTIN *July-September 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				

06/08/2013	13:44:11,04	,	,											10	BACINO DI GUBBIO	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		1		13:44:11.04			44,19	3								162				
VARA		2		13:44:11.59			43,04	2								166				
PANI		3		13:44:13.52			45,23	3								165				
GAGG		2		13:44:14.81			49,08	2								162				
RNI		2		13:44:15.03			49,61	2								164				
ZIAN		3		13:44:15.42												167				

06/08/2013	14:51:39,57	46,1283	11,1905	4,46	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	i	c	1	14:51:42.10	14,1	128				108						0			1,1	1,2
GAGG	e		1	14:51:42.84	18,6	254				103						0			1,1	1
DOSS	i	c	2	14:51:44.35	27,6	180				99						0			1,1	1
CARE	e		2	14:51:48.20	50,3	311				95						0			0,9	0,8

07/08/2013	04:15:31,32	,	,											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		04:15:31.32			49,88	3							104					
VARA		3		04:15:31.81											103					
GAGG		2		04:15:33.94			53,83	3							103					
RNI		3		04:15:34.12											102					
PANI		3		04:15:36.30											102					
ZIAN		3		04:15:38.38			61,19	2							101					

07/08/2013	20:25:19,39	46,1586	12,0628	8,52	0,6		0	0	1,8	90	0	1,8	C	0,13	0	SANTA GIUSTINA (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	20:25:26.74	40,7	289	31,85	2	102							0,23		-0,2	0,9	0,7	

08/08/2013	01:04:03,03	,	,											10	LUNIGIANA				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	01:04:03.03			28,77	3							171							
DOSS	e	d	2	01:04:04.59			32,29	3							168							
RNI			3	01:04:06.13			31,24	3							169							
GAGG			2	01:04:06.43			35,91	3							167							
PANI			2	01:04:09.35											167							
CARE			3	01:04:11.75			40,72	2							162							
ZIAN			2	01:04:11.77			42,96	3							167							

08/08/2013	06:40:19,62	46,0300	10,4860	2,27	1,2		0	0	1	90	0	1	C	0,11	0	M. RE CASTELLO (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	i	c	1	06:40:21.57	11,9	117				101						-0,12			1	1,1	
GAGG	e		2	06:40:25.92	37,1	81	31,13	2	94							-0,04		0,22	1,3	0,9	
CARE	e	c	2	06:40:27.72	46,8	20	33,85	2	93							0,1		-0,02	1	0	

QUATERLY BULLETTIN July-September 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			

08/08/2013	15:32:10,42	46,1336	11,1910	0,54	0,8		0	0	0,7	90	0	0,7	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	e		2	15:32:12.82	14,4	130				92						-0,07			0,5	0,7
DOSS	e		2	15:32:15.28	28,2	180				91						0,04			0,6	0,6
ZIAN	i	c	1	15:32:16.13	32,8	61				91						0,1			1	0,7
CARE	e		2	15:32:18.95	49,9	310				91						0			0,9	0,8

08/08/2013	15:43:52,14	46,1333	11,1858	5,7	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	c	2	15:43:54.82	14,7	129				111						-0,02			0,7	0,9
GAGG	e		2	15:43:55.44	18,4	252				107						0			0,8	0,7
DOSS	e	c	2	15:43:57.05	28,2	180				101						0			0,5	0,6
ZIAN	e		2	15:43:57.93	33,2	61				100						0,04			0,6	0

08/08/2013	16:14:07,34	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	d	1	16:14:07.34			8,36	1							42					

09/08/2013	10:05:07,14	46,1435	11,1860	3,01	1,4	1,4	0	0	0,3	90	0	0,3	C	0,04	2	ALBIANO (TN)			EXPL? 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	
PANI	i	c	1	10:05:09.85	15,4	132				101					17	0,02			1,6	1,8	
GAGG	e	c	1	10:05:10.36	18,8	249				99					19	-0,04			1,5	1,3	
DOSS	e	c	1	10:05:12.11	29,3	180				96						-0,07			1,5	1,5	
ZIAN	i	c	2	10:05:12.80	32,6	63				95						0,06			1,4	1,4	
VARA	e	c	2	10:05:14.41	41,8	212				94						0,1			1,4	1,3	
CARE	e	c	1	10:05:15.53	48,9	310				94						0,01			1,1	1,2	

09/08/2013	10:43:40,53	45,6745	10,8786	18,26	0,3		0	0	0,4	90	0	0,4	C	0,03	0	MONTE BALDO (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	10:43:44.81	16,9	5	48,06	2	137							0,03		-0,03	0	0,3	
GAGG	e		2	10:43:48.99	45,9	8				112						0,02			0	0	

09/08/2013	10:44:26.64	,	,											10	AUSTRIA				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		
CARE	i	d	2	10:44:26.64			40,7	3							186							
ZIAN	i	d	1	10:44:27.10			40,88	2							184							
PANI	e	d	1	10:44:31.20			48,89	2							188							
GAGG			2	10:44:31.31			49,04	2							187							
RNI			2	10:44:34.43			58,06	3							186							
DOSS	i	d	2	10:44:34.44			53,49	2							185							
VARA	e	d	2	10:44:36.03			57,7	2							183							

QUATERLY BULLETTIN *July-September 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			

09/08/2013	13:29:43,67	45,4226	9,8023	5,22	2,4	2,5	0	0	5,9	90	0	5,9	D	0,22	0	ORZIVECCHI (BS)			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
RNI	e	2		13:29:58.73	89,1	46			93						75	-0,19			2,3	2,4
VARA	e	3		13:30:00.23	96,4	62			93							0,06			2,4	2,2
GAGG	e	2		13:30:03.65	116,1	51			93						67	0,11			2,4	2,3
CARE	e	2		13:30:06.55	131,2	32			92							0,43			2,4	2,2
PANI	e	2		13:30:07.08	138,2	60			92							-0,23			2,3	2,6

09/08/2013	17:11:58,56	46,4901	10,5333	3,56	0,9		0	0	0,6	90	0	0,6	C	0,09	0	IL GRAN ZEBRU' (SO)		M 0.8(S)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	i	c	1	17:12:01.29	14,6	120	3,06	2	104							0,16		-0,06	1	0,8
GAGG	e		2	17:12:08.01	55,8	144			94							-0,12			0	0
RNI	e		2	17:12:08.33	57	173			94							0			0,7	0,8

09/08/2013	17:33:00,55	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	i	d	0	17:33:00.55			1,31	1							31					

09/08/2013	18:30:29,07	45,9630	10,8679	6,41	1,2		0	0	0,5	90	0	0,5	B	0,13	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
GAGG	i	d	1	18:30:31.70	15,1	28	34,17	2	113							-0,18		0,1	1,1	1,1
VARA	i	c	1	18:30:31.83	15,4	172			113							-0,09			1,1	1
RNI	e		2	18:30:32.57	19,1	276	35,26	2	109							0,05		0,05	1	1,1
DOSS	e		2	18:30:33.65	26,5	110	37,52	2	104							-0,09		0,14	1,4	1,5

09/08/2013	22:48:06,11	,	,											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
RNI		2		22:48:06.11			21,26	2							110					
VARA		3		22:48:07.99			24,65	3							110					
DOSS		3		22:48:09.69			30,46	3							108					
CARE		3		22:48:11.87			30,64	3							110					
ZIAN		3		22:48:17.36			43,84	3							108					

09/08/2013	23:11:56,12	,	,											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		3		23:11:56.12			71,71	3							70					
DOSS		2		23:11:56.33			70,96	2							72					
PANI		1		23:11:59.58			75,89	2							70					
RNI		3		23:11:59.94			74,74	2							70					
ZIAN		2		23:12:03.61			22,26	2							68					
CARE		3		23:12:06.90			28,75	3							68					

10/08/2013	02:56:09,19	,	,											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		1		02:56:09.19			10,9	1							32					

QUATERLY BULLETTIN *July-September 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			

10/08/2013	09:00:32,75	45,8371	11,1796	14,2	0,7		0	0	2	90	0	2	C	0,14	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	e	c	1	09:00:35.39	4,8	8	37,45	2	161							0,08		0,14	0	0,4
VARA	e		2	09:00:37.26	22	267	40,56	2	123							0,03		-0,17	0,8	1
PANI	e		2	09:00:38.04	26,6	27	41,66	2	118							0,13		-0,27	0,8	0,8
GAGG	e	d	1	09:00:38.93	32,3	328			114							0,15			0	0

10/08/2013	13:11:41,66	,	,											10	ALPI APUANE			M 2.7(l)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA			3	13:11:41.66			66,27	2							135					
DOSS			3	13:11:42.23			68,86	3							132					
GAGG			3	13:11:45.05			73,79	3							132					
PANI			3	13:11:46.09											133					
ZIAN			3	13:11:49.20											132					

10/08/2013	14:54:03,41	,	,											10	FRIGNANO			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			2	14:54:03.41			22,96	2							126					
DOSS			2	14:54:04.70			24,33	3							124					
RNI			2	14:54:05.04			24,17	2							126					
GAGG	e	c	2	14:54:06.94			27,25	3							122					
PANI	e	c	1	14:54:07.52			28,44	3							124					
CARE			2	14:54:11.67			34,89	3							120					
ZIAN	e	c	2	14:54:11.68			35,8	3							125					

10/08/2013	23:13:54,67	45,8128	11,1908	14,46	0,4		0	0	0,3	90	0	0,3	B	0,03	0	PASUBIO (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	23:13:57.48	7,5	359	59,6	2	153							0,02		-0,03	-0,2	0	
VARA	e		2	23:13:59.34	22,9	274			122							0,03			0,4	0,3	
PANI	e		2	23:14:00.18	28,7	23			117							0,01			0,4	0,3	
GAGG	e		2	23:14:01.08	35,1	329			112							-0,08			0,8	0,7	

11/08/2013	01:48:06,73	46,6281	10,3060	0,9	0,4		0	0	0,1	90	0	0,1	C	0,05	0	ACQUA 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	01:48:13.22	37,6	127	18,22	2	91							0,06		0,05	0	0

11/08/2013	23:18:14,31	46,0121	10,6921	7,11	0,3		0	0	0,8	90	0	0,8	B	0,15	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
RNI	i	d	0	23:18:15.88	6,4	237	17,09	2	138							-0,07		-0,13	0,6	0,7
GAGG	e		2	23:18:18.17	22,1	69	21,47	2	108							-0,11		0,09	0	0

12/08/2013	00:07:43,16	46,4981	10,6111	0,94	0,7		0	0	0,6	90	0	0,6	C	0,14	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	e		1	00:07:44.99	10,5	141	46,22	1	95							0,02		-0,15	0,8	0,3

QUATERLY BULLETTIN *July-September 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			

12/08/2013	03:12:41,35	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE		1		03:12:41.35			42,64	1							27					

12/08/2013	03:32:23.92	,	,											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	03:32:23.92			24,82	1							34					

12/08/2013	07:11:41,38	45,8668	11,3768		8,36	0,9		0	0	1,2	90	0	1,2	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	e	d	2	07:11:44.20	14,7	276	46,56	2	120							-0,07		0,04	0,6	0,6
GAGG	e		2	07:11:48.51	40,4	307	53,88	2	102							0,08		-0,05	0,8	0,7
ZIAN	e	c	1	07:11:49.67	47,7	18			100							0			1,3	1

12/08/2013	23:26:48,48	45,5626	11,4478		10,5	1,2		0	0	1	90	0	1	C	0,15	0	ARZIGNANO (VI)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS	e	c	2	23:26:55.73	40,6	330	60,96	3	104							0,08		-0,28	1	1,1
PANI	e		2	23:26:58.27	55	351			101							0,23			0,9	0,9
ZIAN	i	d	1	23:27:02.15	79,8	6			97							-0,09			1,1	1,1

13/08/2013	02:33:51,70	46,8463	10,2936		13,55	1,3		0	0	3,6	90	0	3,6	D	0,24	0	TASLANIA [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	02:34:01.46	56,2	147			104							-0,11			1,1	1,1

13/08/2013	06:40:37,27	45,7421	10,4708		1,36	1,4		0	0	1,1	90	0	1,1	D	0,08	0	IDRO (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	c	1	06:40:42.31	29	24	46,28	3	93							0,07		0,16	1,2	1,3
DOSS	e		2	06:40:47.14	57,9	75			91							-0,03			1,3	1,5
CARE	e		2	06:40:50.51	77,9	13			91							-0,07			0	0

13/08/2013	08:50:44,05	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE		1		08:50:44.05			45,54	1							30					

13/08/2013	08:52:11,71	45,8075	11,0361		14,02	0,9		0	0	0,4	90	0	0,4	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	i	c	0	08:52:14.91	11	281	17,2	2	142							0,15		0,06	0,7	0,5
DOSS	i	c	1	08:52:15.30	14,3	56	17,8	2	134							0,17		-0,01	0,8	0,5
GAGG	e	d	1	08:52:17.59	31,3	349	21,89	2	114							0,03		-0,24	0,9	0,8
PANI	e		2	08:52:18.40	35,6	41	23,21	3	111							0,15		-0,14	0,6	0,6
ZIAN	e		2	08:52:23.29	66,2	38			102							0,02			0,9	0,9
CARE	e		2	08:52:24.49	73,4	339			101							0,01			1,2	0

QUATERLY BULLETTIN July-September 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			

13/08/2013	10:27:29,78	,	,											10	FRIGNANO	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		10:27:29.78			48,91	2							112					
DOSS		2		10:27:31.17			51,21	3							109					
RNI		2		10:27:31.64			51,03	2							110					
GAGG		2		10:27:33.32			55,98	2							109					
PANI		2		10:27:33.92											109					
CARE		3		10:27:38.13			61,77	3							104					
ZIAN		2		10:27:38.38			62,53	2							112					

13/08/2013	13:53:54,82	,	,											10	FRIGNANO			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	13:53:54.82			73,59	3												
DOSS	e	d	2	13:53:56.07			76,91	3												
RNI			3	13:53:56.53			75,78	2												
GAGG			2	13:53:58.33			79,73	3												
PANI			2	13:53:58.82																
CARE			3	13:54:02.97			26,26	2												
ZIAN			2	13:54:03.04			27,37	2												

13/08/2013	18:45:07,92	45,8431	11,1905	14,04	0,7		0	0	1,1	90	0	1,1	C	0,05	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	e	c	1	18:45:10.36	4,1	358	12,4	2	164							-0,06		0,03	0,1	0,6	
PANI	e	d	2	18:45:13.01	25,7	26	16,76	2	119							0,09		-0,05	0,9	0,8	
GAGG	e	d	2	18:45:13.91	32,2	326			114							-0,01			0,7	0	
ZIAN	e		2	18:45:17.83	56,1	31			104							0,02			0,6	0,6	

14/08/2013	05:53:57,76	45,8051	11,1313	10,86	0,5		0	0	0,6	90	0	0,6	B	0,07	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		1	05:54:00.30	9,4	28	2,06	2	139							0,09		-0,07	0,6	0,3
VARA	e		2	05:54:01.32	18,4	277	4,31	2	121							-0,09		0,05	0,5	0,4

14/08/2013	09:52:30,87	,	,											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	0	09:52:30.87			32,4	1							35					

14/08/2013	11:02:10,98	,	,											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		11:02:10.98			29,65	2							100					
DOSS		2		11:02:11.89			33,1	3							103					
RNI		3		11:02:12.99			32,59	3							102					
GAGG		3		11:02:14.54			36,48	3							101					
PANI		3		11:02:14.99											102					

15/08/2013	00:56:40,12	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	i	c	1	00:56:40.12			41,27	1							30					

QUATERLY BULLETTIN *July-September 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			

14/08/2013	15:28:52,06	45,7030	10,7530	8,22	0,3		0	0	0,6	90	0	0,6	C	0,05	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		15:28:55.31	17,7	39	58,08	3	115							-0,08		0,09	0	0,6	

14/08/2013	22:19:26,54	,	,											10	ALPI APUANE				M 3.6(l)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA		2		22:19:26.54			52,58	2							251							
RNI		2		22:19:28.01			55,47	2							250							
DOSS		2		22:19:28.22			55,87	2							243							
GAGG		2		22:19:30.20			60,71	2							245							
PANI		2		22:19:31.10			62,34	3							248							
CARE		2		22:19:34.76			66,55	2							242							
ZIAN		2		22:19:35.49			66,95	3							250							

16/08/2013	04:57:11,49	,	,											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		1		04:57:11,49			12,95	1							23					

16/08/2013	21:18:42,50	,	,											10	ALPI APUANE			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
VARA		3		21:18:42.50			68,25	3							132					
DOSS		3		21:18:43.95			71,57	3							135					
RNI		3		21:18:44.77			68,38	3							132					
GAGG		3		21:18:45.73			74,94	3							133					
PANI		3		21:18:46.70											133					
ZIAN		3		21:18:51.74			80,54	3							129					

16/08/2013	23:00:49,09	,	,											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		23:00:49.09			72,12	3							108					
CARE		2		23:00:53.98			79,67	3							107					
PANI		2		23:00:54.22			81,42	2							104					
GAGG		2		23:00:56.02			82,4	3							105					
DOSS		2		23:00:57.61			86,78	3							105					
RNI		2		23:00:59.96			88,46	3							103					
VARA		2		23:01:00.19			29,98	2							103					

17/08/2013	03:20:40,82	46,6481	10,0856	2,54	2,4		0	0	0,9	90	0	0,9	C	0,1	0	PONTE DEL GALLO (SO)				M 2.1(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	
CARE	e		2	03:20:49.64	53,1	118				93						-0,27			2,4	2,2	
RNI	e	d	1	03:20:55.51	84,9	151				92						0,16			2,5	2,6	
GAGG	e	c	2	03:20:56.48	91,9	133				92						-0,06			2,1	2,1	
VARA	e		2	03:20:59.60	110,7	146				91						-0,15			2,2	2	
ZIAN	e	c	1	03:21:01.48	120,8	110				91						0,01			2,2	2,2	
DOSS	e		2	03:21:01.56	120,5	135				91						0,13			2,3	2,1	

QUATERLY BULLETTIN July-September 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			

17/08/2013	03:22:22,31	46,6648	9,9888	3,86	1,2		0	0	1,3	90	0	1,3	D	0,14	0	BRAIL [CH]				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	1		03:22:32.70	60,5	116				94						0,02			1,1	0,9
RNI	e	2		03:22:37.80	90,4	147				92						0,03			1,2	1,3
DOSS	e	2		03:22:44.34	127,1	133				92						0,28			0	0

17/08/2013	08:52:48,10	45,9955	10,6916	6,35	0,8		0	0	0,8	90	0	0,8	B	0,11	0	BONDO (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
RNI	e	1		08:52:49.52	5,6	253	50,68	2	139							-0,03		0	0,8	1
GAGG	e	2		08:52:51.98	22,9	65	55,5	2	106							-0,18		0,17	0,8	0,9

17/08/2013	15:19:27,14	45,8179	11,0278	14,32	0,4		0	0	0,8	90	0	0,8	B	0,15	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	15:19:30.32	10,2	275	32,51	2	144							0,17		0,01	0,4	0,2
DOSS	e	c	2	15:19:30.81	14,3	61	33,32	2	135							0,21		0,02	0,5	0,4
GAGG	e		2	15:19:32.86	30	350	37,01	2	116							0,04		-0,25	0	0

17/08/2013	16:11:09,97	45,8025	11,0998	12,64	2,6	2,3	0	0	0,5	90	0	0,5	B	0,2	0	VALLARSA (TN)			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	
DOSS	i	c	0	16:11:13.09	11	39	15,23	1	139						26	0,25		0,15	2,8	2,9	
VARA	e	c	1	16:11:13.71	16	279	16,32	2	128							0,25		0,14	2,6	2,6	
PANI	i	d	0	16:11:16.16	33,1	33	20,22	2	111						75	0,14		-0,52	2,8	2,8	
GAGG	i	d	1	16:11:16.22	33,1	341			111						57	0,2			2,5	2,5	
RNI	e		2	16:11:17.49	42	298			107							0,02			2,3	2,5	
ZIAN	i	d	1	16:11:20.96	63,7	34			101							-0,11			2,7	2,7	
CARE	i	d	1	16:11:23.14	75,8	336			99							0,03			2,4	2,2	

17/08/2013	18:44:47,88	45,8070	11,0996	11,36	0,6		0	0	1,1	90	0	1,1	B	0,2	0	VALLARSA (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS	i	c	1	18:44:50.60	10,7	40	52,73	1	137							0,05		0,1	0,2	0,5
VARA	e		2	18:44:51.54	15,9	278	53,81	2	125							0,31		-0,03	0,3	0,3
GAGG	e	d	1	18:44:53.75	32,6	340	58,08	2	109							-0,04		-0,31	0,8	0,6

17/08/2013	19:10:08,38	45,8001	11,1051	13,29	0,8		0	0	0,7	90	0	0,7	B	0,1	0	VALLARSA (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS	i	c	1	19:10:11.48	11	36	13,59	2	140							0,15		-0,04	0,6	0,8
VARA	e		2	19:10:12.13	16,5	280	14,73	2	129							0,13		-0,1	0,6	0,4
GAGG	i	d	1	19:10:14.61	33,5	340			112							0,07			0,7	0

18/08/2013	12:18:53,17	,	,											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		2		12:18:53.17			54,27	1							29					

QUATERLY BULLETTIN July-September 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				

19/08/2013	06:55:53,39	,	,											10	PIANURA PADANA LOMB.	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
RNI			2	06:55:53.39			68,32	1							100					
VARA			2	06:55:54.83			71,71	3							101					
GAGG			3	06:55:56.89			74,85	2							98					
DOSS	e	d	1	06:55:57.49			75,68	1							98					
CARE			2	06:55:58.04			76,51	3							98					
PANI	i	d	1	06:55:59.94			79,48	1							97					
ZIAN			2	06:56:02.96			26,45	2							100					

19/08/2013	19:03:22.26	45,7981	11,1059	12,43	0,5		0	0	0,4	90	0	0,4	B	0,06	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		1	19:03:25.22	11,1	35	27,3	1	138							0,11		-0,04	0,3	0,4
VARA	e		2	19:03:25.88	16,6	281	28,53	2	127							0,08		-0,03	0	0,6
GAGG	e		1	19:03:28.35	33,7	340				110						-0,05			0	0

19/08/2013	23:16:37,28	,	,											10	LUNIGIANA				M 3.0(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			3	23:16:37.28			61,33	3							179							
GAGG			3	23:16:37.91			66,07	3							178							
DOSS			3	23:16:38.06			66,72	2							179							
RNI			3	23:16:38.35			63,84	2							178							
PANI			3	23:16:40.01			70,14	3							177							
ZIAN			2	23:16:45.27			75,3	2							178							
CARE			3	23:16:46.57			73,86	3							177							

21/08/2013	00:49:28,69	,	,											10	ALPI APUANE				M 2.8(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			2	00:49:28.69			52,27	2														
DOSS			3	00:49:29.14			56,3	2														
RNI			3	00:49:29.99			52,6	3														
PANI			3	00:49:31.83			61,39	3														
GAGG			3	00:49:33.15			60,33	3														
ZIAN			3	00:49:36.03			66,71	3														
CARE			3	00:49:36.32			64,68	3														

21/08/2013	01:11:32.49	,	,											10	ALPI APUANE				M 3.1(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			3	01:11:32.49			57,13	2							165							
RNI			3	01:11:33.16			57,64	2							164							
DOSS			3	01:11:33.21			60,98	2							165							
GAGG			3	01:11:35.38			65,43	3							163							
PANI			2	01:11:35.82			66,4	2							163							
ZIAN			2	01:11:40.19			69,99	2							163							
CARE			3	01:11:40.78			68,9	3							160							

QUATERLY BULLETTIN July-September 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				

21/08/2013	05:26:02.50	,	,											10	ALPI APUANE			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	05:26:02.50			33,72	2							128					
VARA			3	05:26:05.29			29,87	3							123					
RNI			3	05:26:06.85			30,15	3							122					
GAGG			3	05:26:08.39			37,15	3							126					

21/08/2013	05:32:41,25	,	,												10	FRIGNANO	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		05:32:41.52			68,36	3												
VARA		3		05:32:42.17			64,49	2												
PANI		3		05:32:43.72			73,71	3												
RNI		3		05:32:44.32			69,1	3												

21/08/2013	05:33:31,90	,	,											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		05:33:31.90			57,4	3							150					
DOSS		3		05:33:34.76			60,27	3							152					
GAGG		3		05:33:35.07			64,29	3							152					
RNI		3		05:33:37.00			58,1	3							149					
PANI		3		05:33:37.11			67,46	3							150					

21/08/2013	06:10:31,15	,	,											10	ALPI APUANE			M 2.9(I)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		3		06:10:31.15			56,59	3							137					
DOSS		3		06:10:32.37			60,34	3							135					
RNI		3		06:10:34.07			57,67	2							135					
GAGG		3		06:10:34.57			64,72	3							134					
PANI		3		06:10:34.98			65,89	3							134					
CARE		3		06:10:39.26			68,53	3							131					

21/08/2013	16:03:40.48	,	,											10	PARMENSE				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			1	16:03:40.48			59,1	1							105							
RNI			3	16:03:41.31			61,23	1							104							
DOSS			2	16:03:42.10			63,35	2							106							
GAGG			2	16:03:43.66			66,52	1							106							
PANI			2	16:03:45.02			68,75	2							104							
CARE			3	16:03:47.89			70,77	3							107							
ZIAN			2	16:03:49.49			76,9	3							104							

22/08/2013	06:45:39.44	,	,												10	MAR ADRIATICO C-SETT	M 4.4(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS	e	c	1	06:45:39.44			73,48	3												
VARA			2	06:45:40.60			78,85	3												
PANI	e	c	1	06:45:40.65			76,17	2												
ZIAN	e	c	1	06:45:42.28			78,64	1												
GAGG	e	c	1	06:45:43.30			81,78	3												
RNI			2	06:45:43.75			82,82	2												
CARE	i	c	1	06:45:49.13			89,35	3												

QUATERLY BULLETTIN *July-September 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			

22/08/2013	23:26:06,34	46,5640	11,5743	12,1	1,3		0	0	0,6	90	0	0,6	B	0,23	0	CASTELROTTO (BZ)			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	i	d	1	23:26:12.42	32	182	16,67	2	111							0,23		-0,08	1,2	0,8	
PANI	e		2	23:26:16.93	60	198			101							0,13			1,1	1	
CARE	e	c	2	23:26:18.28	69,1	257			100							-0,05			0	1,2	
GAGG	e	d	1	23:26:18.79	71,4	222			100							0,06			1,5	0	
DOSS	e	c	2	23:26:20.52	81,6	201			98							0,07			1,9	1,5	

23/08/2013	12:56:34,49	,	,											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		2		12:56:34.49			35,8	1							32					

24/08/2013	03:39:54.79	,	,											10	ALPI APUANE				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		03:39:54.79			80,83	2							151							
DOSS		3		03:39:56.06			84,39	3							149							
GAGG		3		03:39:58.39			88,39	3							147							
PANI		3		03:39:59.16											147							
RNI		3		03:39:59.88			84,14	3							147							
ZIAN		3		03:40:02.81			38,52	3							148							
CARE		3		03:40:03.21			32,22	3							146							

24/08/2013	13:59:13,93	,	,											10	BARCIS (PN)				M 3.6(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		
ZIAN		1		13:59:13.93			24,21	2							168							
PANI		2		13:59:17.57			30,13	1							171							
DOSS		1		13:59:20.35			35,45	1							169							
GAGG		1		13:59:22.49			38,17	1							168							
VARA		2		13:59:24.11			43,36	2							166							
CARE		2		13:59:25.61			45,33	2							166							
RNI		2		13:59:26.96			48,44	1							164							

25/08/2013	02:38:21,35	46,4795	10,1938	22,91	1,8		0	0	1,1	90	0	1,1	C	0,03	0	PIZZO FILONE(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		3	02:38:29.07	39,2	99				101						0,03			2	2,1	

25/08/2013	03:01:34,74	46,4840	10,4923	4,33	0,8	1,1	0	0	0,3	90	0	0,3	B	0,04	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	03:01:37.81	17,1	113	40,07	2	104							0,06		-0,03	0,9	0,6				

25/08/2013	13:23:20,89	45,6991	10,9476	11,76	0,5		0	0	1,5	90	0	1,5	C	0,18	0	AVIO (TN)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
VARA	e		2	13:23:24.35	14,7	344	26,83	2	129							0,25		0,23	0,5	0,3	
DOSS	e		2	13:23:26.05	27,5	43	29,71	2	113							0,05		-0,28	0,6	0,6	

QUATERLY BULLETTIN *July-September 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				

26/08/2013	01:43:36,88	,	,											10	MONTEFELTRO				M 3.2(l)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
DOSS		2		01:43:36.88			60,74	3							162							
VARA		2		01:43:37.25			61,9	2							166							
PANI		2		01:43:38.87			61,92	2							162							
RNI		2		01:43:40.49			68,19	2							164							
GAGG		2		01:43:40.50			66,51	3							161							
ZIAN		2		01:43:41.36			68,89	2							168							
CARE		2		01:43:46.67			76,88	3							157							

26/08/2013	04:49:13,48	,	,											10	PIANURA PADANA EMIL.	M 2.1(l)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS		2		04:49:13.48			29,13	2							91					
VARA		2		04:49:13.97			28,44	2							92					
PANI		2		04:49:16.41			33,88	2							90					
GAGG		2		04:49:17.63			35,54	2							89					
RNI		2		04:49:18.04			35,64	2							90					
ZIAN		2		04:49:20.20			39,26	2							91					
CARE		3		04:49:24.73			46,74	3							86					

26/08/2013	19:15:43,53	46,3431	12,1091		2,87	1	1,1	0	0	0,7	90	0	0,7	C	0,1	0	FORNO DI ZOLDO (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	i	c	1	19:15:50.93	42,7	260	56,19	3	94						18	0,08		-0,37	1	1

26/08/2013	22:10:33,54	,	,											10	BACINO DI GUBBIO	M 3.7(l)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS		2		22:10:33.54												232				
VARA		1		22:10:34.00			67,25	2								232				
PANI		2		22:10:35.77			71	3								230				
RNI		2		22:10:37.30												231				
GAGG		2		22:10:37.42			75,05	2								230				
ZIAN		2		22:10:38.04			73,64	3								233				
CARE		3		22:10:43.55			84,63	3								226				

26/08/2013	23:15:31,92	,	,												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	23:15:31.92			33,12	1							29					

27/08/2013	02:30:11,86	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	02:30:11.86			12,46	1							30					

QUATERLY BULLETTIN *July-September 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			

27/08/2013	22:15:47,32	,	,											10	LUNIGIANA	M 2.5(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA		3		22:15:47.32			71,29	3												
DOSS		3		22:15:48.06			74,71	3												
RNI		3		22:15:48.57			72,92	3												
GAGG		3		22:15:50.23			77,37	3												
PANI		3		22:15:51.44			78,05	3												
ZIAN		3		22:15:54.72			84,41	3												

28/08/2013	04:52:12,04	45,6931	10,9293	12,5	0,5		0	0	0,8	90	0	0,8	B	0,08	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		04:52:15.56	15	350	17,91	2	130							0,19		-0,06	0,4	0,3			

28/08/2013	10:54:40,53	46,1466	11,1715	0,32	0,8		0	0	0,1	90	0	0,1	C	0,01	2	ALBIANO (TN)				EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
PANI	e	c	2	10:54:43.34	16,5	130				91						-0,02			0,6	0,8	
GAGG	e		2	10:54:43.59	17,9	247				91						0			0,6	0,8	
DOSS	e		2	10:54:45.60	29,7	177				91						-0,01			0,6	0,8	
OZOL	e		2	10:54:45.66	30	342				91						0			0,8	0,6	

28/08/2013	15:25:00,22	46,1310	11,1878	2,06	1		0	0	0,4	90	0	0,4	C	0,05	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e	c	1	15:25:02.71	14,4	128				98						0			1	1,2
GAGG	e	c	1	15:25:03.38	18,5	253				96						-0,02			1	0,8
DOSS	i	c	1	15:25:04.95	27,9	180				94						-0,05			0,9	1
ZIAN	e		2	15:25:05.84	33,2	61				94						-0,06			0,9	0,8
VARA	e	c	2	15:25:07.33	40,7	214				93						0,14			1	0,8
CARE	e		2	15:25:08.74	49,9	311				92						-0,02			0,9	0,8

28/08/2013	16:36:06,42	46,1311	11,1836	5,81	0,9		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	16:36:09.12	14,7	127				112						0			0,8	1,1
GAGG	e		1	16:36:09.68	18,2	253				108						0			1	0,7
DOSS	e	c	1	16:36:11.31	27,9	179				102						0,02			0,7	0,8
ZIAN	i	c	1	16:36:12.21	33,4	61				100						-0,01			0,8	0,6
CARE	e		2	16:36:14.94	49,7	311				97						-0,03			0	0,7

29/08/2013	00:43:17,39	45,7626	11,0883	8,83	0,4		0	0	0,1	90	0	0,1	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	
DOSS	i	c	1	00:43:20.42	15,2	31	22,72	2	120							0,02		-0,03	0,2	0,4	
VARA	e		2	00:43:20.60	16,5	295	23,09	2	118							0		0	0,4	0	

29/08/2013	15:15:09,86	46,1570	11,2441	10,5	1,1		0	0	2	90	0	2	C	0,15	2	LONA - LASES (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e		2	15:15:12.82	13,7	149	15,08	2	127							0,01		-0,03	1,2	1,1
GAGG	e		2	15:15:14.06	23,5	250	17,83	2	114							-0,2		0,13	0,9	1
DOSS	e		2	15:15:15.66	31,1	188	19,76	3	109							0,2		-0,08	1	1

QUATERLY BULLETTIN *July-September 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			

29/08/2013	17:47:48,73	46,4740	10,5536	7,63	0,7	0,9	0	0	0,1	90	0	0,1	B	0,02	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	2		17:47:51.23	12,3	117	53,12	2	122							0,02		-0,02	0,7	0,8

29/08/2013	18:47:01,86	,	,											0	PANI					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	d	0	18:47:01.86			2,07	1							13					

30/08/2013	09:54:02,95	,	,											10	MONTEFELTRO				M 3.0(l)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA		2		09:54:02.95			30,62	3							161							
DOSS		3		09:54:03.09			37,79	3							161							
PANI		3		09:54:05.00			33,29	3							160							
GAGG		3		09:54:06.98			41,23	3							160							
RNI		3		09:54:08.01			41,25	3							160							
ZIAN		3		09:54:08.14			38,12	3							159							
OZOL		3		09:54:10.68			46,27	3							159							
CARE		3		09:54:11.61			46,81	3							158							

30/08/2013	21:41:59,26	,	,											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			1	21:41:59.26			60,89	1							29					
OZOL	i	d	1	21:41:59.70			62,11	2							30					

30/08/2013	23:01:22,49	45,7766	11,0275	12,15	0,4		0	0	0,3	90	0	0,3	B	0,06	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	c	1	23:01:25.38	11,6	298	27,62	2	136							0,03		0,03	0,4	0,4	
DOSS	e		2	23:01:25.95	17	48	28,88	2	126							-0,11		0,03	0,3	0,2	

31/08/2013	04:03:31,43	,	,											10	MAR ADRIATICO C-SETT	M 3.3(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		2		04:03:31.43			67,84	3							174					
VARA		1		04:03:32.52			68,87	3							174					
PANI		2		04:03:32.58			69,11	3							173					
ZIAN		2		04:03:33.91			71,09	2							176					
RNI		2		04:03:35.93			77,02	3							174					
OZOL		2		04:03:38.14			78,49	3							171					
CARE		2		04:03:40.84			82,1	3							167					

31/08/2013	05:16:34,24	45,7666	11,3178	7,26	1,4	1,3	0	0	0,4	90	0	0,4	B	0,11	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	05:16:37.47	16,1	321	39,78	2	114						26	0,21		0,17	1,4	1,2
PANI	i	d	0	05:16:39.88	31,6	2	43,94	2	103						12	0,1		-0,16	1,4	1,3
VARA	i	c	1	05:16:40.20	33,4	281	44,44	2	102						14	0,12		-0,2	1,5	1,4
ZIAN	e	d	2	05:16:44.41	59,7	19			97							-0,12			1,7	1,6
CARE	e		2	05:16:49.15	87,5	327			95							-0,09			1,2	0

QUATERLY BULLETTIN *July-September 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				

31/08/2013	14:23:41,82	46,7546	10,4098	7,05	0,8		0	0	2,6	90	0	2,6	D	0,24	0	CIMA DI GRION (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	14:23:49.31	42,8	149	54,82	2	99							0,08		-0,2	0	0	

31/08/2013	16:11:09,76	,	,											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	i	d	1	16:11:09.76	7,9	139	11,3	3	132							-0,05		0,08	0,2	0,2

31/08/2013	19:04:51,31	,	,											10	HORJOL [SLO]			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
ZIAN	e	c	1	19:04:51.31			78,18	2							178					
PANI	e	c	1	19:04:52.12			79,12	3							177					
DOSS	e	c	1	19:04:53.37			83,11	3							176					
OZOL	e	c	1	19:04:55.40			85,87	2							176					
GAGG	e	c	1	19:04:55.72			85,78	3							176					
VARA	e	c	1	19:04:56.32			87,62	3							175					
CARE			2	19:04:58.45			91,25	3							176					
RNI	e	c	1	19:04:58.90			91,73	3							174					

31/08/2013	20:43:42,79	46,5255	10,3946	7,45	0,6		0	0	0,7	90	0	0,7	C	0,06	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		1	20:43:47.48	25,8	116	50,9	2	106							0,09		-0,07	0,6	0,7

01/09/2013	01:49:57,70	45,7660	11,3121	8,1900	0,7	1	0	0	0,5	90	0	0,5	B	0,11	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	1	01:50:00.96	15,9	323	3,26	2	117							0,2		0,12	0	0	
PANI	e		2	01:50:03.35	31,7	3	7,41	2	104							0,05		-0,26	0,5	0	
VARA	e		2	01:50:03.62	33	282	7,9	2	104					14		0,11		-0,15	0,7	0,5	

01/09/2013	15:01:18,30	,	,											10	LUNIGIANA				M 2.8(I)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA			2	15:01:18.30			45,5	3							140							
DOSS			2	15:01:19.65			46,96	3							137							
RNI			2	15:01:21.09			45,69	3							139							
GAGG			2	15:01:21.72			48,42	3							136							
PANI			2	15:01:22.59			50,03	3							138							
OZOL			2	15:01:26.87			58,26	3							136							
ZIAN			2	15:01:27.02			57,34	2							138							
CARE			2	15:01:27.34			56,04	3							132							

QUATERLY BULLETTIN July-September 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			

01/09/2013	22:19:07,34	46,6815	10,6476	10,98	2,2	2,1	0	0	0,5	90	0	0,5	C	0,18	0	VAL DI MAZIA (BZ)			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
CARE	i	c	0	22:19:12.76	28,8	172	16,26	2	111						41	0,15		-0,46	2,4	2,5
OZOL	e	c	1	22:19:15.25	43,8	135	20,9	2	104						41	0,2		-0,17	1,7	1,7
GAGG	e		2	22:19:19.65	70,6	160			99						44	0,09			2,1	1,9
RNI	e	c	1	22:19:20.80	77,9	181			98							0,02			2,3	2,4
ZIAN	e		2	22:19:21.90	83,5	123			97							0,17			1,9	2,1
DOSS	e		2	22:19:23.78	98,4	155			96							-0,48			2	2
VARA	e		2	22:19:24.00	97	169			96							-0,02			2,2	2,1

01/09/2013	22:22:47,96	46,6971	10,6065	10,95	0,6		0	0	2,7	90	0	2,7	C	0,17	0	VAL DI MAZIA (BZ)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e		1	22:22:53.50	31,1	167				109						-0,1			0	0,7

02/09/2013	02:28:07,13	46,6690	10,7648	11,93	1,1		0	0	1,2	90	0	1,2	B	0,23	0	PUNTA SALDURA (BZ)			M 1.3(S)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	02:28:12.61	27,7	191	16,06	2	113							0,33		-0,23	0,9	1,1
OZOL	e		1	02:28:14.02	36,8	143	18,59	2	108							0,28		-0,32	0,8	0,8
ZIAN	e		2	02:28:20.47	75,3	125			99							0,32			1	0,9

02/09/2013	05:30:09,38	46,0771	10,5448	3	0,6		0	0	0,5	90	0	0,5	C	0,09	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
RNI	e	c	1	05:30:11.46	12,3	151	13,18	2	104							-0,09		-0,05	0,1	0,4

02/09/2013	07:21:36,18	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	1	07:21:36.18			38,02	1							32					

02/09/2013	09:09:28,28	,	,											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	09:09:28.28			51,32	2							99					
PANI			3	09:09:28.96			52,95	3							99					
CARE			3	09:09:31.66			56,88	3							98					
DOSS			3	09:09:31.79			56,99	3							97					
GAGG			3	09:09:32.20			58,53	3							97					
VARA			3	09:09:35.56			64,03	3							99					

02/09/2013	10:12:36,11	46,1338	11,1903	4,86	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	10:12:38.73	14,5	130			109							0			0,5	0,8
GAGG	e		2	10:12:39.42	18,8	253			105							-0,01			0,6	0,6
DOSS	e		2	10:12:41.01	28,2	180			100							0			0,7	0,7
ZIAN	e		1	10:12:41.79	32,8	61			98							0			0,7	0,7

QUATERLY BULLETTIN *July-September 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			

02/09/2013	13:21:51,14	46,3675	11,1018	9,89	1,3		0	0	1,5	90	0	1,5	B	0,17	0	COREDO (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
OZOL	e	2		13:21:52.84	5,5	316				151						-0,24			1,8	1,7
GAGG	e	2		13:21:57.27	33,4	199	61,95	3	106							0,17		0,2	1,4	1,3
ZIAN	e	2		13:21:57.52	36,9	106				105						-0,16			1	1,3
PANI	e	2		13:21:57.91	39,5	153				104						-0,2			1,1	1,2

02/09/2013	15:07:26,73	46,1500	11,1856	3,03	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	e		2	15:07:29.51	16	134				101						0			1,2	1,4
GAGG	e		2	15:07:30.03	19	247				99						0			1,1	0,9
DOSS	e		2	15:07:31.89	30	180				96						0			1	1

02/09/2013	16:53:29,55	45,7283	11,1218	8,55	0,5		0	0	0,5	90	0	0,5	B	0,06	0	ALA (TN)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
DOSS	e	d	2	16:53:33.00	17,6	17	35,47	2	116							0,1		-0,04	0,3	0,4	
VARA	e		2	16:53:33.28	20,6	302	36,41	3	113							-0,08		0,07	0,5	0,4	

03/09/2013	08:43:15,41	,	,											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	e	d	1	08:43:15.41			16,55	1							34					

03/09/2013	14:55:47,64	46,1321	11,2190	1,12	0,8		0	0	0	90	0	0	C	0,06	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		1	14:55:49.84	12,7	135				95						0,02			0,7	0,9
GAGG	e	c	2	14:55:51.10	20,8	255				93						-0,1			0,8	0,6
DOSS	e		2	14:55:52.46	28,1	185				92						0,01			0,6	0
CARE	e		2	14:55:56.54	51,7	309				91						0,06			0,9	0

03/09/2013	16:10:40,28	46,1330	11,1921	1,18	1		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	1	16:10:42.74	14,3	130				95						0,01			1,2	1,2	
GAGG	e	c	2	16:10:43.45	18,9	253				94						-0,06			0,9	0,8	
DOSS	e		1	16:10:45.01	28,1	181				92						-0,08			1,1	1,1	
OZOL	e	c	1	16:10:45.82	31,9	340				92						0,08			1,1	0,8	
ZIAN	e	c	1	16:10:45.84	32,8	61				92						-0,04			1,2	0,9	
VARA	e		2	16:10:47.54	41,1	214				92						0,24			0	0,9	
CARE	e		1	16:10:48.76	50,1	310				91						-0,07			0,8	0,8	

03/09/2013	16:32:37,35	46,1330	11,1893	3,32	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	16:32:39.89	14,5	129				103						0			0,8	0,8
GAGG	e	c	1	16:32:40.59	18,7	253				100						0			0,7	0,6
DOSS	e		2	16:32:42.19	28,1	180				97						0			0,6	0,9
ZIAN	e		2	16:32:43.01	33	61				96						0			1	0,6

QUATERLY BULLETTIN *July-September 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			

04/09/2013	00:22:53,36	,	,											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	d	1	00:22:53.36			55,23	1							31					

04/09/2013	00:41:08,52	46,6053	10,5771	11,02	1,2	1,4	0	0	0,6	90	0	0,6	B	0,17	0	TUBRE (BZ)			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
CARE	e	d	0	00:41:12.83	22,1	155	15,72	2	116						19	0,08		-0,32	0	0
OZOL	e	d	2	00:41:16.17	42,8	122	21,75	2	104						20	0,09		-0,22	1,1	1,1
GAGG	e		2	00:41:19.96	65	153			100							0,17			0	0
RNI	e		2	00:41:20.57	69,5	177			99							0,02			0	1,4
ZIAN	e		2	00:41:23.37	84,1	116			97							0,34			1,4	1,4

04/09/2013	07:03:23,11		,		,											10	PIANURA PADANA EMIL.				M 3.3(I)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag		
VARA	e	d	1	07:03:23.11			37,91	1							172							
DOSS	i	d	1	07:03:23.45			38,73	1							172							
PANI	i	d	1	07:03:26.58			43,77	1							172							
RNI			2	07:03:26.66			44,95	2							171							
GAGG	i	d	1	07:03:27.33			45,53	1							173							
ZIAN			1	07:03:30.59			49,55	1							171							
OZOL	e	d	1	07:03:32.21			54,36	2							172							
CARE	i	d	1	07:03:33.33			55,86	2							170							

04/09/2013	10:31:13,65	46,1823	11,2009	9,09	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	i	c	1	10:31:17.03	17,9	145				117						-0,05			0,6	1
GAGG	i	c	1	10:31:17.66	21,7	240				113						-0,01			0,9	0,9
OZOL	e		2	10:31:18.53	27,1	335				109						-0,01			0,8	0,7
ZIAN	e		2	10:31:18.99	29,8	69				107						0,01			1	0,7
DOSS	i	c	1	10:31:19.67	33,6	182				105						0,07			0,8	0,9
CARE	e		2	10:31:21.90	47,2	305				101						0,03			0,9	0

04/09/2013	15:06:13,37	46,1390	11,1873	7	0,8		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	15:06:16.19	15	131				115						-0,01			0,7	0,9	
GAGG	e	c	1	15:06:16.79	18,7	251				110						0			0,6	0,6	
DOSS	e		2	15:06:18.44	28,8	180				104						0,01			0,9	0,8	

04/09/2013	16:35:33,96	,	,											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			2	16:35:33.96			49,23	2							121					
DOSS	e	d	2	16:35:34.31			49,49	2							116					
PANI			2	16:35:37.44			54,68	2							118					
RNI			2	16:35:37.77			55,68	2							118					
GAGG			2	16:35:38.25			55,97	2							115					
ZIAN			2	16:35:41.73			60,67	2							118					
OZOL			2	16:35:43.73			65,45	2							115					
CARE			2	16:35:44.39			66,72	3							113					

QUATERLY BULLETTIN *July-September 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				

04/09/2013	21:27:38,92	,	,											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		21:27:38.92			54,52	2							102					
DOSS		2		21:27:39.92			55,62	2							103					
RNI		3		21:27:42.72			60,78	2							101					
PANI		2		21:27:42.73			60,31	2							101					
GAGG		3		21:27:43.41			61,4	2							101					
ZIAN		2		21:27:46.86			65,83	2							100					

05/09/2013	09:07:45,96	,	,											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		09:07:45.96			46,46	2							27					

05/09/2013	11:06:09,77	45,7028	10,5295	7,61	0,8	0	0	0	1,4	90	0	1,4	C	0,04	0	IDRO (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	3		11:06:15.49	31,7	13				103						0,14			0,5	0,7

05/09/2013	11:16:15,08	,	,												10	NW BALKAN PENINSULA	DOUBLE EV. M 3.5(l)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
ZIAN			2	11:16:15.08																
PANI	i	c	1	11:16:16.98																
DOSS			2	11:16:18.27																
OZOL	e	c	1	11:16:19.96																
GAGG	i	c	1	11:16:20.51																
VARA	i	c	1	11:16:21.47																
RNI			2	11:16:23.93																

05/09/2013	12:25:51,07	45,8035	10,7511	1,46	0,6		0	0	0,8	90	0	0,8	C	0,11	0	MALCESINE (VR)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
VARA	i	d	1	12:25:52.89	11,6	78	54,67	2	97							-0,17		0,05	0,7	0,5	
RNI	e		2	12:25:55.03	22,1	333	57,74	2	94							0,18		-0,07	0,6	0,5	

05/09/2013	18:48:04,28	,	,											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		18:48:04.28			18,7	2							86					
DOSS		2		18:48:05.13			19,33	1							84					
RNI		2		18:48:07.80			25,54	2							84					
PANI		2		18:48:08.14			25,02	1							83					
GAGG		2		18:48:08.79			26,1	1							82					
ZIAN		2		18:48:12.15			31,82	2							85					
OZOL		3		18:48:13.64			36,76	2							80					

QUATERLY BULLETTIN *July-September 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				

05/09/2013	20:51:54,52	,	,											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		20:51:54.52			66,6	3							87					
DOSS		3		20:51:55.05			69,55	2							88					
RNI		3		20:51:56.35			71,54	3							86					
GAGG		3		20:51:58.04			73,8	2							86					
PANI		2		20:51:58.24			74,74	1							86					
ZIAN		2		20:52:02.90			22,41	2							86					
OZOL		3		20:52:02.92			22,76	2							84					

05/09/2013	20:59:00,07	,	,											10	PREALPI VENETE			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
ZIAN		2		20:59:00.07												85				
PANI		2		20:59:04.49			18,04	3								84				
DOSS		3		20:59:07.25			22,58	2								83				
OZOL		2		20:59:07.61			24,78	2								83				
GAGG		3		20:59:09.90			27,3	3								82				
VARA		3		20:59:10.88			29,5	1								82				

05/09/2013	22:21:15,03	,	,											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	e	d	1	22:21:15.03			29,73	2							145					
DOSS	i	d	1	22:21:15.32			30,46	1							146					
PANI			1	22:21:18.47			35,97	1							144					
RNI	e	d	1	22:21:18.76			36,75	1							144					
GAGG	e	c	1	22:21:19.22			36,97	1							144					
ZIAN	e	d	1	22:21:22.34			41,63	1							143					
OZOL			2	22:21:24.00			46,12	2							142					

06/09/2013	01:45:26,09	,	,											10	PIANURA PADANA EMIL.	M 3.4(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	1	01:45:26.09			40,95	1							172					
DOSS	i	d	1	01:45:26.46			41,71	1							168					
PANI	e	d	1	01:45:29.59			46,95	1							170					
RNI	e	d	1	01:45:29.66			48,06	1							170					
GAGG	i	d	1	01:45:30.38			48,24	1							168					
ZIAN	e	d	1	01:45:33.48			52,92	1							174					
OZOL	e	d	1	01:45:35.23			57,47	1							166					

06/09/2013	02:18:55,42	,	,											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		02:18:55.42			71,15	2							107					
DOSS		2		02:18:56.08			70,87	2							101					
RNI		3		02:18:58.99			76,77	2							104					
PANI		2		02:18:59.00			76,39	2							105					
GAGG		3		02:18:59.42			77,59	3							100					
ZIAN		3		02:19:02.70			22,02	2							107					
OZOL		3		02:19:04.81			27,48	3							101					

QUATERLY BULLETTIN *July-September 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			

06/09/2013	15:01:52,25	,	,											10	PREONE (UD)	M 2.9(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	i	d	1	15:01:52.25			64,76	3							144					
PANI	e	d	1	15:01:56.24			72,85	2							139					
OZOL	e	d	1	15:01:58.55			79,66	1							139					
DOSS			2	15:01:59.07			78,86	2							139					
GAGG	e	d	1	15:02:00.42			21,1	1							138					
VARA			2	15:02:02.70			24,57	1							139					
CARE	e	d	1	15:02:03.01			24,69	1							138					

06/09/2013	16:14:03,07	46,1294	11,1823	6,49	0,9		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	16:14:05.80	14,7	127				114						-0,01			0,9	1,1	
GAGG	e	c	1	16:14:06.32	18	254				110						-0,03			0,9	0,8	
DOSS	i	c	1	16:14:07.98	27,7	179				103						0,04			0,8	0,9	
ZIAN	i	c	1	16:14:08.91	33,6	61				101						-0,01			0,8	0,7	
CARE	e		2	16:14:11.62	49,7	311				97						-0,02			0	0	

07/09/2013	01:17:11,21	45,6368	10,7179	3,8	0,5		0	0	1	90	0	1	C	0,13	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	01:17:15.41	25,2	33	19,04	2	99							-0,16		0,07	0,6	0,4
RNI	e		2	01:17:17.77	38,9	349	23,03	3	96							-0,13		-0,09	0,4	0,4

07/09/2013	02:28:12,28	45,5011	10,4093	9,15	1,2		0	0	3,6	90	0	3,6	D	0,16	0	BEDIZZOLE (BS)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
VARA	e		2	02:28:21.53	52,4	46				100						0,16			1,1	0,9	
DOSS	e		3	02:28:24.81	73,9	55				97						-0,19			1,1	1,2	
ZIAN	e		2	02:28:33.71	124,3	46				94						0,13			1,4	1,5	

07/09/2013	12:23:55,27	45,7653	11,1480	10,51	0,5		0	0	0,5	90	0	0,5	B	0,08	0	VALLARSA (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS	i	d	1	12:23:58.16	13,1	14	60,35	2	129							0,01		-0,04	0,2	0,2
VARA	e		2	12:23:59.47	20,7	289	62,35	2	117							0,23		0,02	0,7	0,5
GAGG	e		2	12:24:02.00	38,3	337			105							-0,06			0	0

07/09/2013	15:20:02,51	,	,											10	SPRENICA [SLO]			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
ZIAN			3	15:20:02.51			23,11	1							174					
PANI			2	15:20:04.44			27,02	1							168					
DOSS			3	15:20:06.27			29,65	2							167					
OZOL			2	15:20:07.29			32,42	2							167					
GAGG			3	15:20:08.13			33,9	1							166					
VARA			3	15:20:09.67			35,89	3							168					
CARE			3	15:20:10.94			38,65	2							165					
RNI			3	15:20:13.25			41,1	2							166					

QUATERLY BULLETTIN July-September 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			

07/09/2013	16:07:17,06	,	,											10	BOVEC [SLO]			M 2.5(O)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
ZIAN		2		16:07:17.06			37,8	1												
PANI		2		16:07:18.83			40,69	1												
DOSS		3		16:07:20.42			44,66	2												
OZOL		3		16:07:22.12			46,27	1												
GAGG		3		16:07:22.32			47,91	2												
VARA		3		16:07:23.80			50,72	3												
CARE		3		16:07:25.99			52,63	2												

07/09/2013	17:01:56,28	,	,											10	BOVEC [SLO]			M 3.0(O)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
ZIAN			2	17:01:56.28			77,15	1							160					
PANI	e	d	1	17:01:58.05			80,15	2							156					
DOSS			2	17:02:00.09			23,25	1							155					
OZOL	e	d	2	17:02:00.91			26,25	1							155					
GAGG	e	d	2	17:02:01.76			27,99	1							154					
VARA			3	17:02:03.43			30,43	3							156					
CARE			3	17:02:05.09			32,34	2							152					
RNI			3	17:02:05.70			35,38	2							155					

08/09/2013	01:36:39,56	45,9441	11,7803	8,96	0,5		0	0	0,9	90	0	0,9	C	0,08	0	ARSIE' (BL)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
ZIAN	e	2		01:36:46.71	40,6	336	52,2	3	102							0,05		0	0,6	0,2
DOSS	e	2		01:36:47.61	46,4	261			101							-0,03			0	0
GAGG	e	3		01:36:50.95	65,5	284			98							0,09			0	0,9

08/09/2013	04:39:26,15	,	,											10	FRIGNANO				M 3.3(I)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	e	d	1	04:39:26.15			45,02	2							224					
RNI	e	d	1	04:39:27.70			47,65	2							223					
DOSS	i	d	1	04:39:27.74			49,22	1							217					
GAGG	i	d	2	04:39:29.79			50,47	1							215					
PANI	e	d	1	04:39:30.59			54,71	1							221					
ZIAN	e	d	1	04:39:34.56			60,41	2							221					
CARE	i	d	1	04:39:34.58			58,09	2							212					
OZOL	i	d	1	04:39:34.87			59,37	2							209					

08/09/2013	21:09:36,24	46,0288	10,4836	3,49	0,1		0	0	0	90	0	0	C	0	0	M. RE CASTELLO (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	2		21:09:38.38	12	116				106						0			-0,2	-0,1

09/09/2013	22:07:34,67	45,7428	10,9716	11,5	0,9		0	0	0,4	90	0	0,4	B	0,09	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	d	1	22:07:37.53	10,9	328	39,6	2	136							0,14		0,1	0,9	0,8
DOSS	e		2	22:07:39.05	22,7	48	42,21	2	117							0,02		-0,22	0,8	0
PANI	e		2	22:07:42.56	44,3	39			105							0,06			0	0,8
ZIAN	e		2	22:07:47.52	74,9	38			99							-0,11			1,1	0,9

QUATERLY BULLETTIN July-September 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			

10/09/2013	00:48:11,85	46,5368	10,8990	7,6	0,7		0	0	0,7	90	0	0,7	C	0,16	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
OZOL	i	d	0	00:48:15.43	18,9	142	18,11	2	112							0,1		0,06	0,4	0,2
CARE	i	c	0	00:48:15.47	19,9	231	18,12	2	111							-0,02		-0,21	0,5	0

10/09/2013	01:24:41,51	45,9773	10,9041	11,51	0,7		0	0	0,7	90	0	0,7	B	0,2	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	
GAGG	e		2	01:24:44.42	12,5	20	46,66	2	133							0		-0,03	0	0,5	
VARA	e		2	01:24:44.74	16,8	182	47,67	2	124							-0,25		-0,04	0,5	0,4	
DOSS	e		2	01:24:46.42	24,6	116	50	2	115							0,27		0,23	0,8	0,8	

10/09/2013	04:17:28,51	46,5323	12,2066	2,98	0,9		0	0	0,6	90	0	0,6	C	0,18	0	LAGO MISURINA (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	i	d	1	04:17:38.25	57,1	240				93						-0,04			0	1
PANI	e		2	04:17:42.95	85,9	231				92						-0,26			0	1,2

10/09/2013	07:21:15,59	45,7664	11,0875	11,57	1,3	1,5	0	0	0,3	90	0	0,3	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	
DOSS	i	c	0	07:21:18.99	14,9	32	21,33	1	128						21	0,18		0	1,2	1,3	
VARA	i	c	0	07:21:19.15	16,3	294	21,73	2	125						22	0,15		0,07	1,6	1,6	
GAGG	e	d	1	07:21:22.20	36,6	344	27,08	2	108						22	0,04		-0,2	1,7	1,6	
PANI	e		2	07:21:22.25	37	31	27,18	2	107							0,04		-0,2	0,8	1	
RNI	e		2	07:21:23.43	43,2	303	28,84	2	105							0,19		-0,37	1,3	1,2	

10/09/2013	10:51:11,34	,	,											10	APPENNINO BOLOGNES	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			2	10:15:11.34			29,73	2							109					
VARA			2	10:15:12.21			32,59	2							110					
PANI			3	10:15:14.55			34,35	3							107					
RNI			3	10:15:15.08			38,28	3							107					
GAGG			3	10:15:16.25			38,61	2							106					
ZIAN			1	10:15:17.91			40,42	1							110					
CARE			3	10:15:20.66			44,36	3							101					

10/09/2013	15:27:07,88	46,1338	11,1771	1,65	1,1		0	0	0,6	90	0	0,6	C	0,06	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	1	15:27:10.46	15,3	127				96						-0,05			1	1
GAGG	e	c	1	15:27:10.99	17,8	252				95						0,05			1	0,9
DOSS	e		2	15:27:12.66	28,2	178				93						-0,06			0,9	1,1
VARA	e		2	15:27:14.97	40,6	212				92						0,15			0	1
CARE	e		2	15:27:16.24	49,1	311				92						-0,04			0,9	1,2

10/09/2013	15:48:51,06	46,1388	11,1855	6,78	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		2	15:48:53.89	15,1	130				114						0			0,8	1,2
GAGG	e	d	2	15:48:54.44	18,6	251				110						0			1	0,8
DOSS	i	c	2	15:48:56.11	28,8	179				103						0			0,8	0,9
ZIAN	e		2	15:48:56.80	32,9	62				102						0			0,9	1,1

QUATERLY BULLETTIN *July-September 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				

10/09/2013	18:41:41.47	,	,											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	18:41:41.47			42,75	1							33					

11/09/2013	04:52:42,56	46,6315	10,2755	13,14	1,2		0	0	5	90	0	5	D	0,32	0	ACQUA DEL GALLO (SO)	M 1.3(S)			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	2	04:52:49.49	39,7	125	54,92	2	108							-0,22		-0,37	1,2	1,1
OZOL	e		2	04:52:54.38	64,7	113			101							0,53			1,3	1,3
RNI	e		2	04:52:55.76	77,1	160			100							-0,17			1,1	1,2

11/09/2013	09:15:37,30	,	,											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
RNI	i	c	1	09:15:37.30			43,46	1							58					
CARE			3	09:15:44.34			53,32	2							58					

11/09/2013	09:23:57,57	,	,											10	BOVEC [SLO]			M 2.7(O)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
ZIAN			3	09:23:57.57			78,01	2												
PANI			2	09:24:00.10			21,91	1							155					
DOSS			2	09:24:02.06			25,37	2							154					
GAGG			3	09:24:03.61			29,93	2							154					
OZOL			2	09:24:03.62			27,6	1							154					
VARA			3	09:24:05.01			31,9	3							155					
CARE			3	09:24:07.14			34,12	1							150					
RNI			3	09:24:08.09			37,2	1							154					

11/09/2013	14:02:53,27	46,3913	11,1106	13,38	1,4		0	0	0,9	90	0	0,9	C	0,12	0	ROMENO (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
OZOL	e		2	14:02:55.55	4,7	286	57,66	3	161							-0,14		0,08	1,7	1,5
GAGG	e		3	14:02:59.99	36,2	199	64,79	3	110							0,13		-0,21	1,4	1,3
ZIAN	e		3	14:03:00.15	37,1	110			110							0,14			1,1	1,4
PANI	e		2	14:03:00.70	41,6	155	6,56	3	108							-0,04		-0,01	1,2	1,3

12/09/2013	05:30:58,89	,	,											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	05:30:58.89			59,7	1							29					

12/09/2013	07:28:12,12	,	,											10	VAL DI TARO	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			3	07:28:12.12			31,51	1							90					
RNI			3	07:28:13.25			33,11	1							90					
DOSS			3	07:28:13.71			35,5	2							89					
GAGG			3	07:28:15.02			36,38	3							90					
PANI			2	07:28:16.68											89					
CARE			3	07:28:19.05			45,9	3							86					

QUATERLY BULLETTIN *July-September 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			

12/09/2013	15:26:55,75	46,1251	11,2195	5	0,9		0	0	0,3	90	0	0,3	C	0,04	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	15:26:57.98	12,2	133				112						-0,02			0,9	1
GAGG	e	c	1	15:26:59.39	20,7	257				104						0			0,9	0,8
DOSS	e	c	1	15:27:00.55	27,3	185				100						0,05			0,8	0,7
ZIAN	e		2	15:27:01.15	31,4	58				99						-0,04			1	0,8
CARE	e	c	1	15:27:04.70	52,2	310				95						-0,02			0,9	0

12/09/2013	15:36:45,28	46,8548	11,1080	1,64	1,2		0	0	0,7	90	0	0,7	D	0,11	0	CORVARA PASS. (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	15:36:54.03	50,4	185	60,72	2	92							0,13		0,1	1,1	1,1
CARE	e		2	15:36:55.17	57,2	213			92							0,1			0,9	1
ZIAN	e		2	15:36:57.55	73,2	152			91							-0,24			0	0
PANI	e		2	15:37:00.82	91,1	169			91							-0,03			1,2	1,3
DOSS	e		2	15:37:03.93	108,5	177			91							0,09			1,5	1,6

12/09/2013	15:40:57,14	46,1401	11,1858	5,31	1,2		0	0	0,4	90	0	0,4	C	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	i	c	0	15:40:59.89	15,2	131				109						0			1,3	1,5
GAGG	i	c	2	15:41:00.35	18,7	250				106						-0,11			1,3	1,2
DOSS	i	c	2	15:41:02.12	28,9	180				100						-0,05			1,1	1,3
OZOL	e		2	15:41:02.55	31	341				100						0,03			1,2	1,1
ZIAN	i	c	1	15:41:02.82	32,8	63				99						0			1,3	1
VARA	e		2	15:41:04.42	41,5	213				97						0,13			1,4	1
RNI	e		2	15:41:05.49	47	248				96						0,26			1	1,2
CARE	e	c	1	15:41:05.52	49,2	310				96						-0,07			1,1	1

12/09/2013	16:11:54,13	,	,												10	VAL DI TARO	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			3	16:11:54.13			71,99	3							79					
RNI			2	16:11:54.65			71,85	2							79					
DOSS			3	16:11:56.46			75,05	3							80					
PANI			3	16:11:59.30			79,45	2							78					
CARE			3	16:12:00.68			22,95	2							76					

12/09/2013	17:00:49,03	46,1968	12,5278	6,97	2,5		0	0	1,3	90	0	1,3	C	0,24	0	BARCIS (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
ZIAN	e		2	17:01:01.40	74,9	277				95						-0,49			2,4	2,5
PANI	e		2	17:01:05.43	93,6	260				94						0,36			2,5	2,8
DOSS	e		2	17:01:07.85	109,5	251				94						0,07			2,7	2,7

12/09/2013	18:59:40,54	,	,											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	i	c	1	18:59:40.54			42,18	1							29					

12/09/2013	19:12:36,95	,	,											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	19:12:36.95			38,63	1							31					

QUATERLY BULLETTIN *July-September 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				

12/09/2013	20:16:29,35	,	,											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		2		20:16:29.35			31	1							26					

13/09/2013	00:55:09,09	46,4911	11,5005	20,8	0,5		0	0	1,6	90	0	1,6	C	0,24	0	NOVA LEVANTE (BZ)							
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag			
ZIAN	i	d	0	00:55:14.62	24,4	169	18,56	2	130							0,05		-0,28	0,5	0,2			
OZOL	e		2	00:55:16.58	35,8	254	21,93	2	120							0,41		0,23	0,6	0,8			
CARE	e		2	00:55:20.58	62,1	263	28,54	2	59							0,33		-0,42	0,9	0			

13/09/2013	02:10:40,16	,	,											10	ALPI APUANE				M 3.0(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	02:10:40.16			65,52	2							177							
RNI			3	02:10:41.46			66,72	3							177							
DOSS			3	02:10:42.17			67,36	2							173							
PANI			3	02:10:44.45			74,91	3							174							
GAGG			3	02:10:44.85			69,36	2							173							
ZIAN			3	02:10:48.49			79,05	2							175							
OZOL			3	02:10:48.79			79,19	3							173							
CARE			3	02:10:50.01			77,8	3							168							

13/09/2013	03:48:26,11	46,8679	11,2251	3,27	1		0	0	1,8	90	0	1,8	D	0,21	0	VALLETTINA (BZ)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e		2	03:48:36.62	63,7	219				93						-0,4			0	1
ZIAN	e		2	03:48:38.16	70,7	158				93						-0,04			0,9	0
RNI	e		2	03:48:44.81	108,9	205				92						0,07			1,1	1,2

13/09/2013	13:19:02,43	45,8491	10,9295	16,34	0,8		0	0	1	90	0	1	B	0,27	0	BRENTONICO (TN)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
VARA	i	c	1	13:19:05.52	3,6	225	7,73	2	167							0,23		0,21	0,4	0	
DOSS	i	c	1	13:19:07.05	20,4	80	10,12	2	129							0,15		-0,27	0,6	0,6	
GAGG	e	d	2	13:19:07.85	26,1	5	11,62	2	122							0,15		-0,19	0,9	0,7	
PANI	e	c	1	13:19:09.77	38,6	55	14,97	2	113							0,18		-0,21	0,6	0,9	
CARE	e		2	13:19:14.36	66,4	344			104							0,24			0	0,9	

13/09/2013	17:22:22,11	46,6313	10,2901	5,18	1,4		0	0	0,9	90	0	0,9	C	0,13	0	ACQUA DEL GALLO (SO)		M 1.6(S)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e		2	17:22:28.62	38,8	126	33,79	2	98							-0,18		-0,23	1,6	1,5
OZOL	e		2	17:22:33.09	63,7	113			95							0,05			1,4	1,5
RNI	e		3	17:22:35.51	76,7	160			94							0,25			1,2	1,4
GAGG	e		2	17:22:35.72	79,7	140			94							-0,05			1,2	1,3

QUATERLY BULLETTIN *July-September 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			

14/09/2013	17:24:10,66	46,4216	10,7868	10,96	1,2	1,6	0	0	0,7	90	0	0,7	B	0,26	0	RABBI (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			
CARE	i	c	0	17:24:13.11	6,9	273	14,52	1	148						33	0,24		-0,08	1,2	1,3			
OZOL	i	c	0	17:24:14.75	20,5	96	17,49	2	118						25	0,12		-0,23	1,2	1,4			
GAGG	e	d	1	17:24:17.96	39,9	161			105							0,24			1	1			
RNI	e		2	17:24:19.73	50,6	194			102							0,22			1	1,4			
PANI	e		3	17:24:21.16	59	134			101							0,24			0,9	0,9			
ZIAN	e		2	17:24:21.63	61,9	105			100							0,23			1	1,1			
DOSS	e		2	17:24:22.52	67,7	153			99							0,13			1	1,1			

14/09/2013	17:35:39,61	46,4201	10,7858	10,24	1,2		0	0	0,8	90	0	0,8	B	0,26	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	0	17:35:42.02	6,8	274	43,44	1	146							0,3		0,08	1,2	1,4
OZOL	i	c	1	17:35:43.65	20,5	95	46,38	2	117							0,12		-0,21	1,2	1,4
GAGG	e	d	2	17:35:46.87	39,7	160			104							0,24			1	0
RNI	e		2	17:35:48.66	50,4	194			101							0,25			1	1,3
ZIAN	e		2	17:35:50.56	61,9	105			99							0,21			0,8	1,1
DOSS	e		2	17:35:51.48	67,6	153			99							0,17			0	1,3

14/09/2013	18:15:39,87	,	,												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	18:15:39.87			58,44	2							107					
OZOL			3	18:15:42.44			62,04	1							101					
PANI			3	18:15:44.93			67,68	2							101					
CARE			3	18:15:45.40			67,35	2							100					
GAGG			3	18:15:46.96			71,05	2							99					
DOSS			3	18:15:48.67			72,93	2							100					
RNI			3	18:15:50.26			78,82	2							102					
VARA			3	18:15:50.84			78,45	1							103					

16/09/2013	03:53:28,90	45,7741	11,0336	12,45	0,5		0	0	0,8	90	0	0,8	C	0,05	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	c	0	03:53:31.81	12,1	298	34,31	3	136							-0,06		0,12	0,4	0,3	
DOSS	e		2	03:53:32.52	16,8	46	35,26	2	126							0,04		-0,01	0	0,6	

16/09/2013	04:51:06,80	45,0803	12,5396	9,61	1,7		0	0	1	90	0	1	C	0,02	0	MAR ADRIATICO SETT.				
st_name	p_rem	m	w_p	time_s	dist	azm	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	04:51:30.09	138	310				59						-0,01			2	2
PANI	e		2	04:51:30.85	143,1	319				59						0,01			1,7	1,7
ZIAN	e		2	04:51:32.32	153,2	330				59						0			1,6	1,8

16/09/2013	07:52:33,13	,	,											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	07:52:33.13			35,72	1							39					

QUATERLY BULLETTIN *July-September 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			

16/09/2013	14:40:48,82	46,1315	11,1884	2,46	1,1		0	0	0,4	90	0	0,4	C	0,05	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	1	14:40:51.31	14,4	128				100						-0,01			1,2	1,1
GAGG	e		1	14:40:52.03	18,6	253				98						0,01			1	1
DOSS	e	c	2	14:40:53.56	27,9	180				95						-0,05			0,9	0
ZIAN	e		2	14:40:54.46	33,1	61				94						-0,03			1,1	0,8
VARA	e		2	14:40:55.98	40,8	214				93						0,18			1,2	0
CARE	e	c	1	14:40:57.35	49,9	311				93						-0,01			1	1,1

16/09/2013	15:46:56,35	46,2720	11,3766	16,28	0,9		0	0	4,4	90	0	4,4	D	0,13	0	CASTELLO FIERME (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
ZIAN	e		1	15:47:00.10	14,4	88	3,06	2	139							0,04		0,1	0,6	0,7
PANI	e		2	15:47:01.23	24,8	187			123							-0,19			0,7	0,8
DOSS	e		2	15:47:04.85	46	198				110						0,17			1,2	0

17/09/2013	13:03:03,43	45,4966	10,9895	13,77	1,3		0	0	1,4	90	0	1,4	C	0,05	0	VERONA				
st_name	p_rem	m	w_p	time_s	dist	azm	s_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	13:03:10.37	37,3	349				110						0,14			1,1	1
DOSS	e		2	13:03:11.48	45,3	20				107						-0,05			1,4	1,5

18/09/2013	00:14:44,49	45,7850	10,5576	9,97	1		0	0	0,6	90	0	0,6	C	0,06	0	BONDONE (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	
RNI	e		2	00:14:48.66	22,3	13	51,9	2	114							-0,01		-0,04	1,1	1,1	
VARA	e		3	00:14:49.38	26,7	80			110							0,01			1	1	
DOSS	e		3	00:14:53.36	50,2	78	60,01	3	101							0,13		-0,04	0	1,2	

18/09/2013	15:19:02,65	46,1400	11,1896	7,18	0,8		0	0	0,7	90	0	0,7	C	0,05	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e		2	15:19:05.47	15	131				116						-0,02			0,6	0,8
GAGG	e		2	15:19:06.09	18,9	251				111						-0,03			0,8	0,8
ZIAN	e		1	15:19:08.44	32,6	62				102						0,09			0,6	0,6
CARE	e		2	15:19:11.20	49,4	310				98						0,01			1	0

18/09/2013	16:01:06,70	46,1240	11,2303	3,25	1		0	0	0,2	90	0	0,2	C	0,01	2	BASELGA DI P. (TN)	EXPL?			
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	0	16:01:08.73	11,5	135				106						-0,01			0,9	1,2
GAGG	i	c	1	16:01:10.44	21,5	258				99						0,02			1	0
DOSS	i	c	2	16:01:11.40	27,3	187				97						0			0,8	1
ZIAN	e	c	1	16:01:12.00	30,8	57				96						0,01			0,9	0,6
CARE	e		2	16:01:15.76	53	309				94						-0,01			0	0

18/09/2013	18:39:30,43	,	,											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		3		18:39:30.43			37,4	3							48					

QUATERLY BULLETTIN July-September 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			

18/09/2013	21:13:24,37	46,4663	10,7043	10,83	1,4	1,5	0	0	0,6	90	0	0,6	B	0,22	0	CIMA STERNAI (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
CARE	i	d	0	21:13:26.56	4,7	187	27,91	1	157						18	0,17		-0,05	1,2	1,1
OZOL	i	c	1	21:13:29.53	27,6	105	33,13	2	111						30	0,09		-0,26	1,3	1,6
GAGG	e		2	21:13:32.79	46,8	155			103							0,2			0	1,1
RNI	i	c	0	21:13:34.09	54,3	187	40,81	2	101							0,25		-0,41	1,6	1,7
ZIAN	e		2	21:13:36.49	69,4	108			99							0,12			1,1	1,2
DOSS	e		2	21:13:37.63	75,1	150			98							0,28			1,3	1,3

19/09/2013	00:43:35,89	46,4148	10,9591	11,82	1		0	0	0,7	90	0	0,7	B	0,2	0	BRESIMO (TN)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
OZOL	i	d	1	00:43:38.24	7,2	100	40,04	2	149							-0,02		-0,07	1	0,7	
CARE	e	d	1	00:43:40.19	20,2	273	43,03	2	120							0,3		0,03	0,8	1,3	
GAGG	e		2	00:43:42.57	36,8	180	47,74	2	108							0,07		0,08	1	0	
ZIAN	e		2	00:43:44.59	49	108			104							0,09			0,6	0,8	

19/09/2013	14:29:04,31	,	,											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			2	14:29:04.31			5,25	2							21					

19/09/2013	14:51:17,89	46,1360	11,1791	0,78	1		0	0	0,5	90	0	0,5	C	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		2	14:51:20.50	15,3	128				93						-0,02			0,9	1,2	
GAGG	e	c	1	14:51:21.00	18	251				92						0,01			0	0,6	
DOSS	i	c	1	14:51:22.65	28,5	179				92						-0,12			0,8	1	
ZIAN	i	c	1	14:51:23.54	33,5	62				91						-0,09			0,9	0,9	
VARA	e		2	14:51:24.99	40,8	212				91						0,11			1,1	1	
CARE	e		2	14:51:26.32	49,1	311				91						0,03			1	1,1	

19/09/2013	15:44:06,53	46,1273	11,1880	3,35	1		0	0	0,3	90	0	0,3	C	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	15:44:09.05	14,2	127				103						0,02			1	1,1
GAGG	i	c	1	15:44:09.71	18,4	255				100						-0,02			0,8	0,9
DOSS	i	c	1	15:44:11.27	27,5	180				97						0			0,9	0,9
ZIAN	i	c	1	15:44:12.19	33,4	60				96						-0,07			1	0,6

19/09/2013	23:40:30,95	,	,											10	MAR ADRIATICO C-SETT	DOUBLE EV. M 3.3(I)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS			2	23:40:30.95																
PANI	e	c	1	23:40:31.99																
VARA			2	23:40:32.27																
ZIAN			2	23:40:33.80																
GAGG			2	23:40:34.93																
RNI			2	23:40:35.45																
OZOL			2	23:40:37.75																
CARE			2	23:40:40.36																

QUATERLY BULLETTIN *July-September 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			

20/09/2013	04:31:01,85	46,0200	10,7185	7,66	0,6		0	0	1,2	90	0	1,2	C	0,09	0	BOLBENO (TN)				
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
RNI	i	c	1	04:31:03.83	8,6	240	5,39	2	132							0,01		0,03	0,8	0,9
GAGG	e		2	04:31:05.33	19,9	69	8,39	2	111							-0,17		0,05	0	0,6

20/09/2013	04:49:01,56	,	,											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	2	04:49:01.56			3,34	1							25					

20/09/2013	15:53:01,23	46,1375	11,1843	5,62	1,1		0	0	0,1	90	0	0,1	B	0,01	2	ALBIANO (TN)				EXPL?
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	0	15:53:03.99	15,1	130				110						0			1	1,4
GAGG	e	c	1	15:53:04.50	18,4	251				107						-0,03			1,1	1,1
DOSS	e	c	1	15:53:06.24	28,6	179				101						0,02			1,1	1,2
ZIAN	e	c	1	15:53:06.95	33,1	62				100						-0,01			1,1	0,8
CARE	e		2	15:53:09.72	49,3	310				97						0,01			0	1,1

20/09/2013	16:15:23,66	46,1313	11,1865	6,55	0,8		0	0	0,5	90	0	0,5	C	0,04	2	ALBIANO (TN)				EXPL?
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	i	c	1	16:15:26.38	14,6	128				114						-0,01			0,7	0,9
GAGG	e		1	16:15:26.98	18,4	253				110						-0,02			0,5	0,6
DOSS	e	c	1	16:15:28.60	27,9	180				103						0,04			0,7	0,7
ZIAN	i	c	1	16:15:29.43	33,2	61				101						-0,02			0,8	0,5
CARE	e		2	16:15:32.19	49,8	311				97						-0,06			0	0

20/09/2013	22:28:53,91	45,9876	10,7913	9,71	0,8		0	0	0,5	90	0	0,5	B	0,13	0	BLEGGIO SUPER. (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	
RNI	e		1	22:28:56.68	13,1	267	59,07	2	127							-0,02		0,2	0,6	0,7	
GAGG	e		2	22:28:57.17	16,8	51	59,82	2	120							-0,05		0,01	0,5	0,3	
DOSS	e		2	22:28:59.99	33,1	111	64,16	2	106							0,19		-0,24	0,6	0	
CARE	e		2	22:29:02.55	49,1	352			101							0,08			1	0	
ZIAN	e		2	22:29:05.56	67,7	62			98							-0,05			0,9	0,8	

21/09/2013	02:44:47,86		,	,											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
VARA			3	02:44:47.86																
DOSS			2	02:44:49.00																
RNI			3	02:44:50.55																
GAGG			3	02:44:52.05																
PANI	e	c	2	02:44:52.74																
ZIAN			3	02:44:57.08																
CARE			3	02:44:57.56																

QUATERLY BULLETTIN *July-September 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				

21/09/2013	09:04:55,53	,	,											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		2		09:04:55.53			71,12	1							103					
DOSS		2		09:04:55.86			71,1	2							102					
PANI		2		09:04:58.95			76,21	1							100					
RNI		2		09:04:59.13			77,56	1							100					
GAGG		1		09:05:00.01			17,4	1							99					
ZIAN		2		09:05:03.28			22,16	2							101					
CARE		3		09:05:06.15			28,51	1							98					

21/09/2013	17:33:35,54	46,6701	10,1233	17,67	1,1		0	0	2	90	0	2	C	0,07	0	PUNTA LASCH [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		17:33:45.01	51,8	122				109						0,1			0	0
RNI	e	2		17:33:50.47	85,7	153				59						0,01			0,9	1,3

22/09/2013	01:21:10,52	45,8141	10,9958	14,28	0,6		0	0	0,5	90	0	0,5	A	0,13	0	BRENTONICO (TN)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
VARA	i	c	1	01:21:13.49	7,8	280	15,71	2	151							0,18		0,23	0,2	0,3	
DOSS	i	c	1	01:21:14.41	16,7	64	17,08	2	131							0,13		-0,12	0,3	0,5	
GAGG	e		1	01:21:16.25	30,1	354	20,44	2	115							0,04		-0,21	0	0	
ZIAN	e		2	01:21:22.38	67,6	41			102							0,05			0,8	0,8	

23/09/2013	01:52:20,26	46,5448	10,3410	9,58	0,5		0	0	1	90	0	1	C	0,04	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	c	1	01:52:25.78	30,5	116	29,92	2	107							0,06		-0,06	0	0,8

23/09/2013	02:37:22,06													10	ALPI APUANE			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		02:37:22.06			47,18	2							124					
RNI		3		02:37:22.45			48,26	3							126					
DOSS		3		02:37:23.26			49,62	3							123					
GAGG		3		02:37:25.58			56,81	3							125					
ZIAN		3		02:37:30.81			60,43	3							121					

24/09/2013	04:23:03,81	,	,											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		04:23:03.81			4,18	1							24					

24/09/2013	07:14:43,18	,	,											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	e	c	2	07:14:43.18			44,94	2							26					

QUATERLY BULLETTIN *July-September 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			

24/09/2013	15:38:16,39	46,1205	11,2070	0,56	0,9		0	0	0,1	90	0	0,1	D	0,01	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	15:38:18.55	12,6	128				93						0			0,6	0,6
GAGG	e		2	15:38:19.76	19,6	258				92						0			0,7	0,7
DOSS	e		2	15:38:20.98	26,8	183				91						0			0	0,9
ZIAN	e		2	15:38:21.94	32,5	58				91						-0,02			0,6	0,8

24/09/2013	21:30:52.47	,	,											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	21:30:52.47			53,69	0							27					

24/09/2013	21:43:05,27	45,8505	10,9331	15,17	0,6		0	0	0,5	90	0	0,5	B	0,12	0	MORI (TN)					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag	
VARA	e		2	21:43:08.16	3,9	226	10,25	2	165							0,22		0,22	0	0	
DOSS	e	c	2	21:43:09.65	20,1	81	12,81	2	127							0,08		-0,12	0	0,5	
GAGG	e		2	21:43:10.50	26	4	14,29	2	120							0,09		-0,13	0	0,4	

25/09/2013	03:41:52,71	,	,											10	RAKEK [SLO]			M 2.5(O)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
ZIAN			2	03:41:52.71			78,78	2							128					
PANI			3	03:41:54.82			81,53	2							126					
DOSS			3	03:41:55.05			86,39	3							125					
OZOL			3	03:41:57.99			88,08	1							124					
VARA			3	03:41:58.34			89,22	2							127					
GAGG			3	03:41:59.36			87,57	3							124					
CARE			3	03:42:02.92			38,64	3							120					
RNI			3	03:42:03.38			32,86	3							124					

25/09/2013	09:38:32,01	46,0318	10,4155	1,35	1,7		0	0	0,9	90	0	0,9	D	0,21	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			
RNI	e	d	1	09:38:34.87	17	109	36,97	2	95							-0,06		-0,23	2,1	2,1			
GAGG	e		2	09:38:39.19	42,4	82	44,88	2	92							-0,07		-0,04	1,9	1,4			
VARA	e		2	09:38:39.74	43,8	122	45,38	2	92							0,25		0,05	1,4	1,2			
CARE	i	c	0	09:38:40.58	48,8	26	46,75	2	92							0,23		-0,1	1,8	1,9			
OZOL	e		2	09:38:43.05	64,1	50			91							0,07			1,6	1,6			

25/09/2013	10:52:54,48	45,8016	11,7231	11,75	1		0	0	1,5	90	0	1,5	C	0,13	0	BASSANO GRAPPA (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		1	10:53:02.19	42,4	282	7,72	2	105							0,19		-0,15	0,9	1	
ZIAN	e		1	10:53:03.78	54,2	347				102						-0,18			1,1	1	

QUATERLY BULLETTIN July-September 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			

25/09/2013	12:31:53,67	46,0343	10,4395	3,55	1,9	1,7	0	0	1	90	0	1	C	0,21	0	CAPO DI PONTE (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
RNI	e		1	12:31:56.32	15,4	113	58,4	2	103						43	-0,06		-0,09	2,3	2,3
GAGG	e		1	12:32:00.58	40,5	82	6,28	2	95						39	-0,05		0,22	2,2	1,7
VARA	e		2	12:32:00.90	42,4	123	6,71	2	95							-0,04		0,1	1,8	1,6
CARE	e	c	1	12:32:01.96	47,7	25	7,8	2	94							0,11		-0,43	2,1	2,2
OZOL	e		2	12:32:04.27	62,5	49			93							-0,11			1,9	1,8
PANI	e		2	12:32:05.77	69,3	89			93							0,23			1,8	1,9
ZIAN	e		2	12:32:09.38	90,9	73			92							0,16			1,6	1,7

25/09/2013	12:33:07,52	,	,											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		2		12:33:07.52			8,32	1							22					

25/09/2013	13:00:43,63	,	,											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		2		13:00:43.63			44,53	2							18					

25/09/2013	13:01:35,04	46,0325	10,4403	2,54	1,4		0	0	0,4	90	0	0,4	C	0,09	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	
RNI	e		2	13:01:37.62	15,3	112	39,71	2	99							-0,07		-0,04	1,7	1,8	
GAGG	e	d	1	13:01:41.94	40,5	82	47,53	2	94							-0,04		0,13	1,5	1	
CARE	i	c	1	13:01:43.29	47,9	24	49,48	2	93							0,05		-0,15	1,5	1,6	
OZOL	e		2	13:01:45.75	62,6	49			92							-0,01			1,3	1,1	

25/09/2013	13:02:41,22	,	,											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		2		13:02:41.22			42,12	1							23					

25/09/2013	13:38:59,61	46,3495	11,1371	11,51	1,2		0	0	0,5	90	0	0,5	B	0,1	0	SFRUZ (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		2	13:39:05.63	32,6	205	10,12	2	109							0,11		-0,01	1,3	1,3	
ZIAN	e		2	13:39:05.75	33,8	104			109							0,04			1,2	1,4	
CARE	e		2	13:39:05.95	34,8	284	10,6	3	108							0,07		-0,17	1,1	1,1	
PANI	e		2	13:39:06.06	36,5	155	11,07	3	107							-0,09		-0,19	1,1	1,4	

25/09/2013	15:10:39,65	,	,											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		2		15:10:39.65			40,48	0							24					

QUATERLY BULLETTIN *July-September 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			

25/09/2013	15:25:15,52	46,1336	11,1866	0,59	0,8		0	0	1	90	0	1	C	0,12	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e	c	1	15:25:18.06	14,7	129				92						0,02			0,8	0,8
GAGG	e		2	15:25:18.58	18,5	252				92						-0,1			0,8	0,6
DOSS	e	c	2	15:25:20.29	28,2	180				91						-0,05			0,7	0,8
ZIAN	e		2	15:25:21.01	33,1	61				91						-0,17			0,6	0,7
VARA	e		2	15:25:22.76	40,9	213				91						0,24			0	0,9

25/09/2013	20:42:44,29	,	,											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	i	d	0	20:42:44.29			45,18	1							27					

26/09/2013	15:05:40,08	46,1443	11,1800	1,2	1,2		0	0	0,6	90	0	0,6	C	0,17	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	15:05:42.66	15,9	131				94						-0,13			1,2	1,5
GAGG	i	c	1	15:05:43.18	18,4	248				94						-0,05			1,2	1,1
DOSS	e		2	15:05:44.79	29,4	179				92						-0,31			1,2	1,2
OZOL	e		2	15:05:45.30	30,4	341				92						0,02			1,2	1
VARA	e		2	15:05:47.39	41,6	212				92						0,19			1,2	1
RNI	e		2	15:05:48.33	46,8	247				91						0,25			1	1,1
CARE	e		1	15:05:48.36	48,5	310				91						-0,01			0,8	0,9

26/09/2013	16:36:20,17	46,1301	11,1846	2	0,8		0	0	0,5	90	0	0,5	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	1	16:36:22.73	14,6	127				98						0,04			0,7	0,8
GAGG	e		2	16:36:23.26	18,2	253				96						-0,05			0,5	0,7
DOSS	e		2	16:36:24.90	27,8	179				94						-0,04			0,8	0,9
ZIAN	e		1	16:36:25.83	33,4	61				93						-0,06			0,9	0,8
VARA	e		2	16:36:27.23	40,5	213				93						0,12			0,8	0

26/09/2013	16:46:31,46	46,1315	11,1794	1,41	1,1		0	0	0,5	90	0	0,5	C	0,05	2	ALBIANO (TN)			EXPL?	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
PANI	e	c	1	16:46:34.02	15	127				95						-0,01			1,1	1,1
GAGG	e		1	16:46:34.53	17,9	253				95						0			1,1	1,1
DOSS	e		1	16:46:36.23	28	179				93						-0,02			0,8	1
VARA	e		2	16:46:38.52	40,4	213				92						0,14			1,1	0,8

26/09/2013	21:33:05,68	45,9848	12,2339	10,64	0,9	0,8	0	0	1	90	0	1	C	0,04	0	VITTORIO VEN. (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
PANI	e		2	21:33:17.76	70	276				99						-0,03			0,7	0

26/09/2013	22:14:44,31	46,3860	10,8441	6,51	0,7		0	0	1,2	90	0	1,2	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	c	1	22:14:46.76	12,1	291	48,45	1	118							0,11		-0,03	0,2	0,8	
OZOL	e	c	1	22:14:47.10	16,1	83	49,4	2	112							-0,17		-0,19	0,9	0,8	
ZIAN	e		2	22:14:54.34	56,7	102			97							0,28			0	0	
DOSS	e		2	22:14:54.97	62,2	155			96							-0,03			1	0	

QUATERLY BULLETTIN *July-September 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			

27/09/2013	00:00:09,44	,	,											10	MAR ADRIATICO C-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	00:00:09.44			44,23	2												
VARA			2	00:00:10.23			46,53	2												
PANI			2	00:00:10.26			45,65	2												
ZIAN			2	00:00:11.75			47,47	1												
GAGG			2	00:00:13.09			51,24	2												
RNI	e	d	1	00:00:13.88			52,74	2												
OZOL			2	00:00:15.75			55,35	2												
CARE			2	00:00:18.54			60,18	2												

27/09/2013	10:10:36,78	46,1846	11,2050	4,01	1		0	0	0,7	90	0	0,7	C	0,15	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	1	10:10:39.92	17,9	146				103						-0,01			0,9	1,3	
GAGG	i	c	1	10:10:40.55	22,1	239				100						-0,07			0,9	1,2	
OZOL	e		2	10:10:41.36	27	334				98						-0,09			0,9	0,8	
ZIAN	i	c	0	10:10:41.86	29,5	70				98						0			1,2	0,8	
DOSS	e	c	2	10:10:42.56	33,9	182				97						-0,05			1,2	1	
CARE	e	c	1	10:10:44.80	47,3	304				95						-0,1			0,8	0	
RNI	i	c	1	10:10:45.82	50,4	243				95						0,4			0,9	1	

27/09/2013	12:18:51,77	45,7371	11,4488	10,72	1		0	0	1,7	90	0	1,7	C	0,2	0	SCHIO (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	12:18:56.74	25,7	308	60,57	1	113							0,21		0,32	0,9	0,9	
PANI	e	d	1	12:18:58.30	36	346	62,96	1	107							0,11		-0,23	0,8	0,8	
VARA	e		1	12:18:59.59	44,1	283	65,2	2	104							0,06		-0,37	0	0,9	
GAGG	i	c	1	12:19:01.23	54,1	315			101							0,03			0	1,1	

27/09/2013	15:34:58,37	46,1343	11,1850	4,95	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	15:35:01.05	14,8	129				108						0			0,5	0,7
GAGG	i	c	1	15:35:01.63	18,4	252				105						0			0,7	0,5
DOSS	e	c	2	15:35:03.28	28,3	179				100						0			0,6	0,8
ZIAN	e	c	1	15:35:04.11	33,2	62				98						0			0,6	0,6

27/09/2013	15:35:19,69	46,1311	11,1836	6,24	0,8		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	i	c	1	15:35:22.42	14,7	127				113						0			0,7	0,8	
GAGG	e	c	1	15:35:22.97	18,2	253				109						-0,01			0	0,6	
DOSS	e	c	1	15:35:24.61	27,9	179				103						0,03			0,6	0,8	
ZIAN	e		1	15:35:25.49	33,4	61				101						-0,02			0,7	0,6	
CARE	e		2	15:35:28.25	49,7	311				97						0			0,9	0,8	

27/09/2013	19:59:01,18	46,6511	10,1509	17,5	1,1		0	0	2,4	90	0	2,4	C	0,21	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	19:59:10.35	48,9	121	16,79	2	110							0,28		-0,19	0,9	1,2
RNI	e		2	19:59:15.77	82,9	154			102							0,1			1,2	1,3

QUATERLY BULLETTIN July-September 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			

27/09/2013	20:36:54,55	46,1348	10,9215	6,58	0,9		0	0	0,4	90	0	0,4	A	0,15	0	S. LORENZO BAN. (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	d	1	20:36:56.09	6,4	153	57,45	2	136							-0,03		0,11	0,9	0,6	
RNI	e	c	0	20:36:59.75	28,8	233			103							0,16			0,5	0,6	
OZOL	e		2	20:37:00.17	31,5	19	4,17	2	102							0,12		-0,17	1	0,9	
PANI	i	c	1	20:37:00.49	33,3	106	4,66	2	101							0,14		-0,22	1,2	1,2	
DOSS	e		2	20:37:00.65	35,1	144	5,56	2	101							0		0,15	0,8	1	
CARE	e	d	1	20:37:00.91	36,5	332			100							0,01			0,8	0,8	
ZIAN	e		1	20:37:03.46	52	72			97							-0,04			0,7	0	

27/09/2013	20:38:18,01	,	,											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		1		20:38:18.01			18,93	1							29					

27/09/2013	22:40:46,92	46,0308	10,5813	3,56	0,7		0	0	0,2	90	0	0,2	B	0,02	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
RNI	e	d	0	22:40:48.20	6,4	150				119						0,03			0,5	0,5
GAGG	e		2	22:40:52.04	29,8	79				97						0			0	0,8
VARA	e	c	1	22:40:52.66	33,4	133				96						0			0,6	0

28/09/2013	01:08:47,63	,	,											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		2		01:08:47.63			63,57	1							104					
DOSS		1		01:08:47.93			62,46	1							94					
PANI		2		01:08:51.07			68,2	1							102					
RNI		2		01:08:51.33			69,73	1							102					
GAGG		2		01:08:51.98			69,5	1							95					
ZIAN		2		01:08:55.19			74,6	1							102					
OZOL		2		01:08:57.43			79,41	1							93					
CARE		3		01:08:58.19			80,66	2							91					

28/09/2013	16:45:01,65	46,5601	10,3746	2,89	0,9		0	0	1,4	90	0	1,4	C	0,22	0	GIOGO S. MARIA (SO)		M 1.0(S)		
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	i	c	1	16:45:06.43	29	121	10,38	2	96							-0,2		-0,14	0,9	1
OZOL	e		2	16:45:11.18	54,8	109				93						0,15			1	1,1
RNI	e		2	16:45:13.54	67,2	163				92						0,39			0,8	0,9

28/09/2013	16:47:57,25	45,7391	11,1419	10,64	0,9		0	0	0,4	90	0	0,4	B	0,09	0	VALLARSA (TN)			M 1.0(O)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
DOSS	i	c	1	16:48:00.68	16,1	13	3,07	2	124							0,14		-0,04	0,4	0,4
GAGG	e		2	16:48:04.47	40,8	340	10,07	2	105							0,01		-0,02	0	0,9
ZIAN	e		2	16:48:08.84	68	29			99							-0,18			0,7	0,8

29/09/2013	03:28:30,30	,	,											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	03:28:30.30			31,31	1							26					

QUATERLY BULLETTIN *July-September 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			

29/09/2013	06:31:19,28	,	,											0	CARE					
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
CARE	e	c	0	06:31:19.28			20,14	1							29					

29/09/2013	11:50:50,66	,	,											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		1		11:50:50.66			52,27	1							28					
OZOL		3		11:50:51.53			53,15	1							28					

29/09/2013	12:53:32,58	46,6530	10,1403	11,67	1,1		0	0	2,5	90	0	2,5	D	0,21	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		12:53:41.54	49,7	121	47,89	3	103							0,23		-0,22	1	1,2	
RNI	e	2		12:53:47.07	83,4	154			98							0,09			1,1	0	

29/09/2013	15:49:19,34	,	,											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		15:49:19.34			33,52	1												
DOSS		3		15:49:20.94			35,68	1												
RNI		3		15:49:21.75			37,59	1												
GAGG		3		15:49:23.55			39,86	2												
PANI		2		15:49:24.22			40,68	2												
ZIAN		3		15:49:28.54			48,58	2												

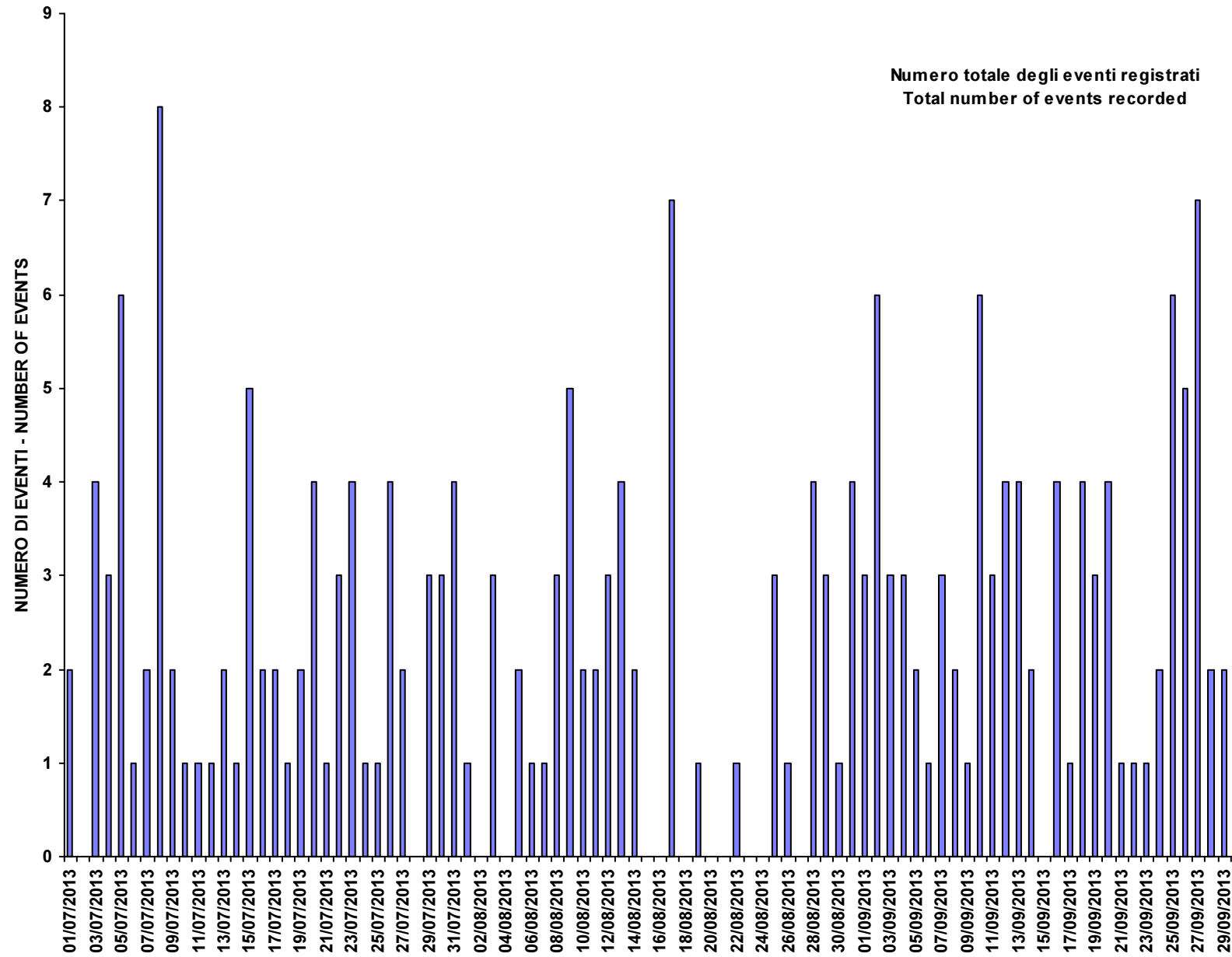
29/09/2013	19:30:42,88	45,6781	11,0791	6,7	1,5	1,4	0	0	0,6	90	0	0,6	C	0,2	0	CIMA CAREGA (TN)			M 1.5(O)	
st_name	p_rem	m	w_p	time_s	dist	azm	s_sec	w_s	ain	mx_amp	per	p_calc	p_std	cf	f_p_time	p_res	s_std	s_res	xmag	fmag
VARA	i	d	0	19:30:46.95	21,7	319				107						0,19			1,3	1
DOSS	e	c	1	19:30:47.45	24	21	50,66	2	106					47		0,31		0,2	1,9	1,6
PANI	i	c	1	19:30:51.00	45,9	26	56,43	2	98							0,19		-0,56	1,3	1,2
GAGG	e	c	2	19:30:51.07	46	348	56,77	3	98							0,25		-0,25	1,5	1,4
RNI	e	c	1	19:30:51.22	48,9	313			98							-0,09			1	1
ZIAN	i	c	1	19:30:55.96	76,3	29			95							-0,02			1,5	1,7
CARE	e	c	2	19:30:58.12	88,1	340			94							0,15			1,4	1,4

30/09/2013	10:01:37,01	45,8263	11,2243	13	0,8		0	0	0,8	90	0	0,8	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	c	1	10:01:39.76	6,6	335	41,73	2	153							0,26		0,28	0	0	
VARA	e		2	10:01:42.01	25,5	270	45,62	2	117							0,11		-0,09	0	0,6	
PANI	e		1	10:01:42.13	26,4	19	45,69	2	116							0,09		-0,27	0	0,7	
GAGG	e		2	10:01:43.52	35,2	324	48,2	2	110							0,09		-0,24	1,1	0	

30/09/2013	15:40:12,06	46,1391	11,1866	0,08	1		0	0	0,7	90	0	0,7	0	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	15:40:14.66	15,1	131				90						0,02			1	1
GAGG	e		1	15:40:15.20	18,7	251				90						-0,05			0,9	0,8
DOSS	e		2	15:40:17.05	28,8	180				90						0,07			0,9	1
ZIAN	e		2	15:40:17.62	32,8	62				90						-0,05			0,9	0,8
CARE	e		2	15:40:20.55	49,3	310				90						0,07			0	0

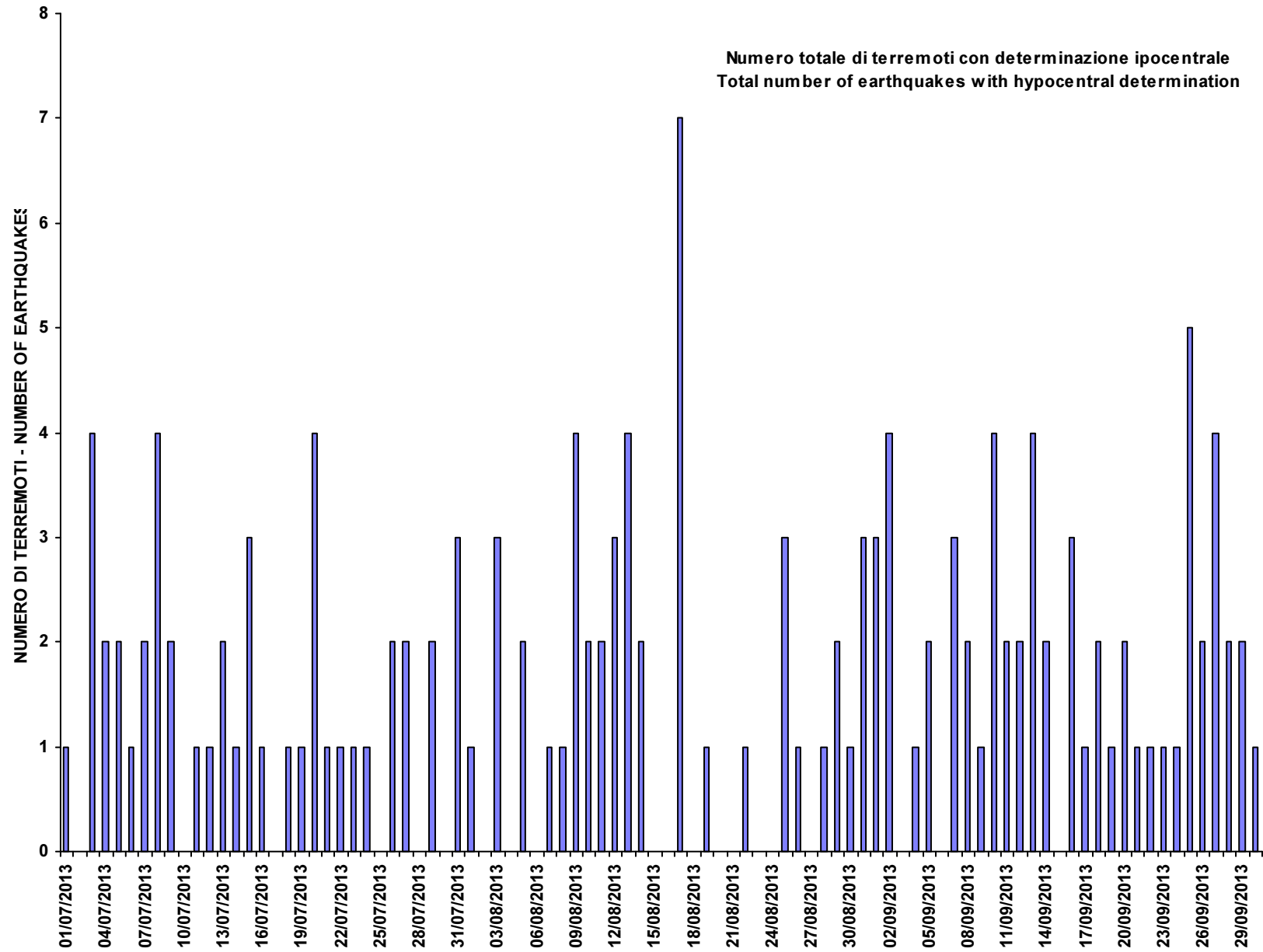
RETE SISMICA DEL TRENTINO ; PERIODO : LUGLIO - SETTEMBRE 2013

TRENTINO SEISMOMETRIC NETWORK ; PERIOD : JULY - SEPTEMBER 2013



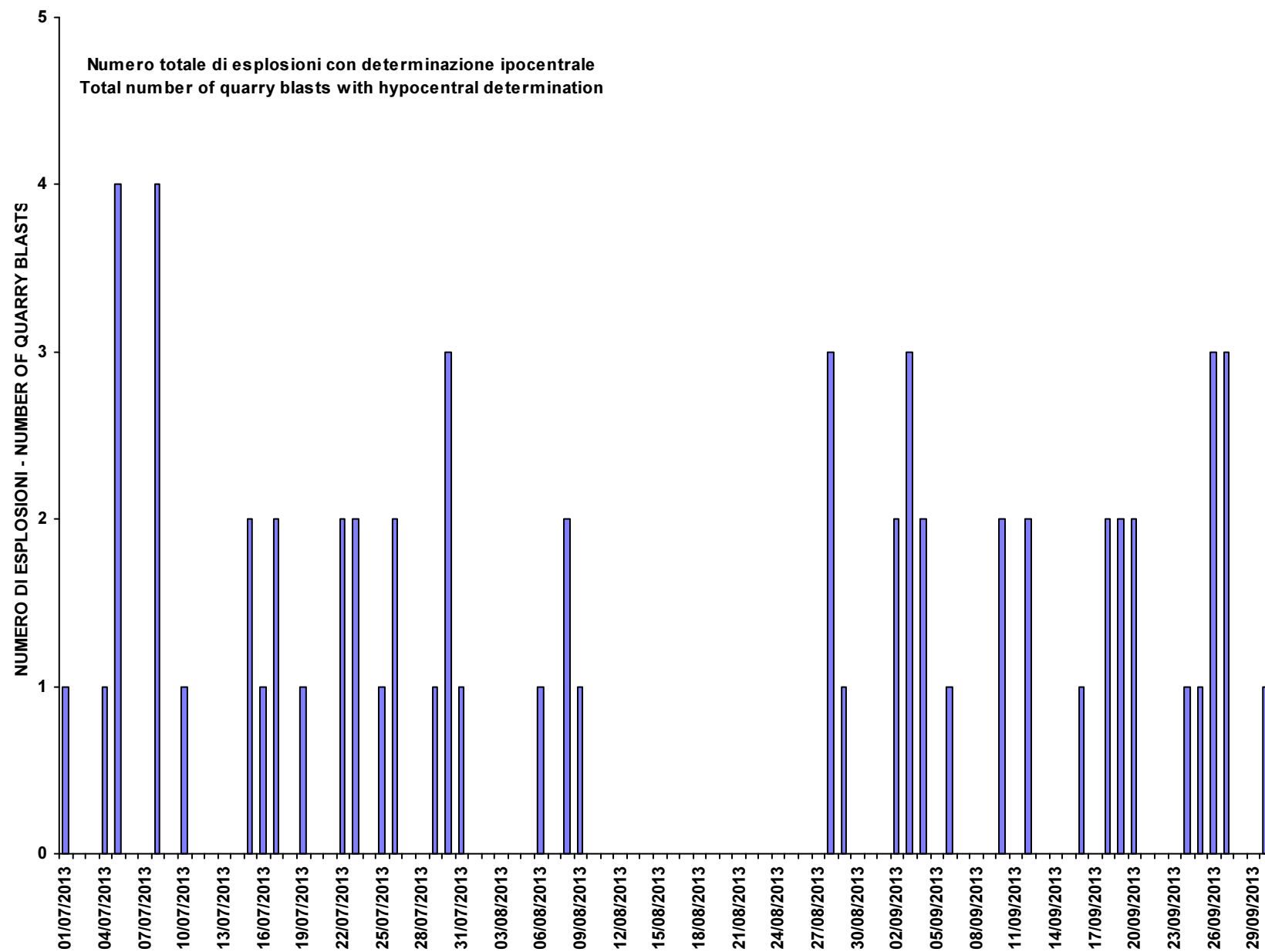
RETE SISMICA DEL TRENTINO ; PERIODO : LUGLIO - SETTEMBRE 2013

TRENTINO SEISMOMETRIC NETWORK ; PERIOD : JULY - SEPTEMBER 2013



RETE SISMICA DEL TRENTINO ; PERIODO : LUGLIO - SETTEMBRE 2013

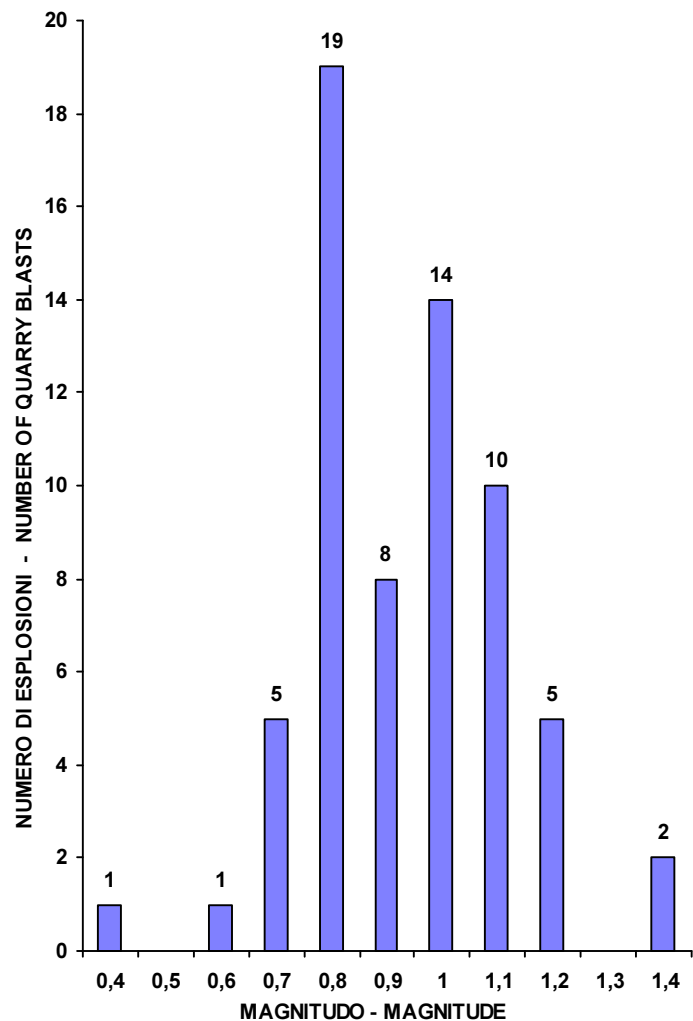
TRENTINO SEISMOMETRIC NETWORK ; PERIOD : JULY - SEPTEMBER 2013



RETE SISMICA DEL TRENTINO ; PERIODO : LUGLIO - SETTEMBRE 2013

TRENTINO SEISMOMETRIC NETWORK ; PERIOD : JULY - SEPTEMBER 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

