






LINEA 6 – METROPOLITANA DI NAPOLI

				(PRIMA EMISSIONE) – OTTOBRE 2013	OTT 13						
Albinati	De Risi	Manferlotti	Di Luccio								
REDATTO	CONTROLLATO	APPROVATO	AUTORIZZATO	DESCRIZIONE REVISIONE DOCUMENTO	DATA	REV					
 Ansaldo STS A Finmeccanica Company CONCESSIONARIA				 COMUNE DI NAPOLI CONCEDENTE		PROG	IMP	NUMERO			
						L	M	6	7	F	X
						CODICE PRODOTTO		AREA	TIPO	FASE	
								2	C	E S	
A termini di legge è rigorosamente vietato riprodurre e comunicare a terzi il contenuto del presente documento	TITOLO DOCUMENTO: LINEA 6 METROPOLITANA DI NAPOLI PROGETTO ESECUTIVO OPERE CIVILI – MONITORAGGIO GEOTECNICO GEOREFERENZIATO REPORT DELLE MISURE (INTERNO) – STAZIONE CHIAIA										
	EMITTENTE  METROPOLITANA DI NAPOLI S.p.A. RESPONSABILE PROGETTAZIONE OPERE CIVILI				A.T.I. LM6			CODICE ENTE 			
	 Monitoraggio delle gallerie e prove di laboratorio per la qualifica dei materiali e loro controllo Monitoraggio opere civili e monitoraggio ambientale				FORMATO A4		SCALA /		FOGLIO 1 DI 138		

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 <p>Ansaldo STS A Finmeccanica Company</p>	<p>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</p> <p><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C I 26 Data: 25/10/13 Metropolitana di Napoli A.T.I. LM6 TreEsse Engineering S.r.l.</p>
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1. PREMESSA

Nell'ambito della realizzazione della nuova Metropolitana di Napoli (**Linea 6, tratta Mergellina - Municipio**) è prevista una rete di monitoraggio e controllo finalizzata alla periodica registrazione delle grandezze fisiche di maggiore interesse e agli effetti legati alle attività di cantiere.

In generale, per le stazioni il sistema di monitoraggio prevede i seguenti strumenti:

- Capisaldi di livellazione, posti sul terreno e sui marciapiedi degli edifici adiacenti il pozzo di stazione;
- Staffe livellometriche, poste sugli edifici adiacenti il pozzo di stazione;
- Piezometri Casagrande o a tubo aperto, realizzati in prossimità delle paratie del pozzo di stazione;
- Piezometri elettrici, realizzati all'interno del pozzo di stazione;
- Inclinometri ed estenso-inclinometri, realizzati in prossimità delle paratie del pozzo di stazione;
- Inclinometri, realizzati nelle paratie perimetrali del pozzo di stazione;
- Mire ottiche, poste sulle paratie all'interno del pozzo di stazione
- Celle di carico, disposte sui puntoni metallici di contrasto;
- Barrette estensimetriche, disposte sui puntoni metallici di contrasto e/o all'interno delle paratie perimetrali del pozzo di stazione.

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L'installazione di tale strumentazione impiegata lungo le aree di cantiere (stazione Chiaia, S. Pasquale, Arco Mirelli e Municipio) risulta completa all'interno ed all'esterno dei pozzi di stazione; diversamente, quella relativa alla Galleria di linea è ad oggi in fase d'installazione.

Di seguito saranno restituiti i grafici frutto delle letture svolte nel cantiere, relativi alla sola strumentazione interna:


- Inclinatori, Estensimetri, Piezometri, acquisizione elaborazione restituzione dati competenza Tre Esse.
- Staffe di livellazione, Capisaldi acquisizione competenza ATI, elaborazione restituzione dati competenza Tre Esse.

2. DATI GENERALI

Commessa: Linea 6 – Metropolitana Di Napoli

Impresa esecutrice: Chiaia S.c.a.r.l.

Monitoraggio: Tre Esse Engineering S.r.l.

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3. STRUMENTAZIONE INTERNA INSTALLATA

La nomenclatura della strumentazione di monitoraggio ha subito una variazione rispetto all'installazione, necessaria per rendere uniforme ed univoco il nome di ogni strumento installato lungo tutta la tratta.

Esempio: **CH_P50_S1;**

la prima serie di simboli identifica la stazione di monitoraggio (in questo caso San Pasquale),

la seconda è identificativa del numero di pannello monitorato,

la terza corrisponde al tipo di barretta estensimetrica installata (S sta per Strain gauge – corda vibrante) e al numero progressivo della barretta (1,2,...).


Elenco strumentazione installata e funzionante.

- n°4 Inclinometri

CH_IN_P13
CH_IN_P50
CH_IN_P67
CH_IN_P81

- n°24 Barrette Estensimetriche a corda vibrante per metallo

CH_P13_S1-6
CH_P50_S1-6
CH_P67_S1-6
CH_PU1_S1-4
CH_PU2_S5-8

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- n°11 Celle di Carico

Primo Ordine di Tiranti

CH_CC1-4

Secondo Ordine di Tiranti

CH_CC5-9

Puntoni

CH_PU1_CC

CH_PU2_CC

- n°64 Mire Ottiche

Primo Ordine

CH_MO1-16

Secondo Ordine

CH_MO17-32

Terzo Ordine


CH_MO33-40

Quarto Ordine

CH_MO36-44

Supplementari

CH_MO45-64

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4. PLANIMETRIA STRUMENTAZIONE MONITORAGGIO

Nella figura successiva viene rappresentata la planimetria del cantiere e la disposizione degli strumenti previsti per il monitoraggio geotecnico installati internamente al pozzo stazione.

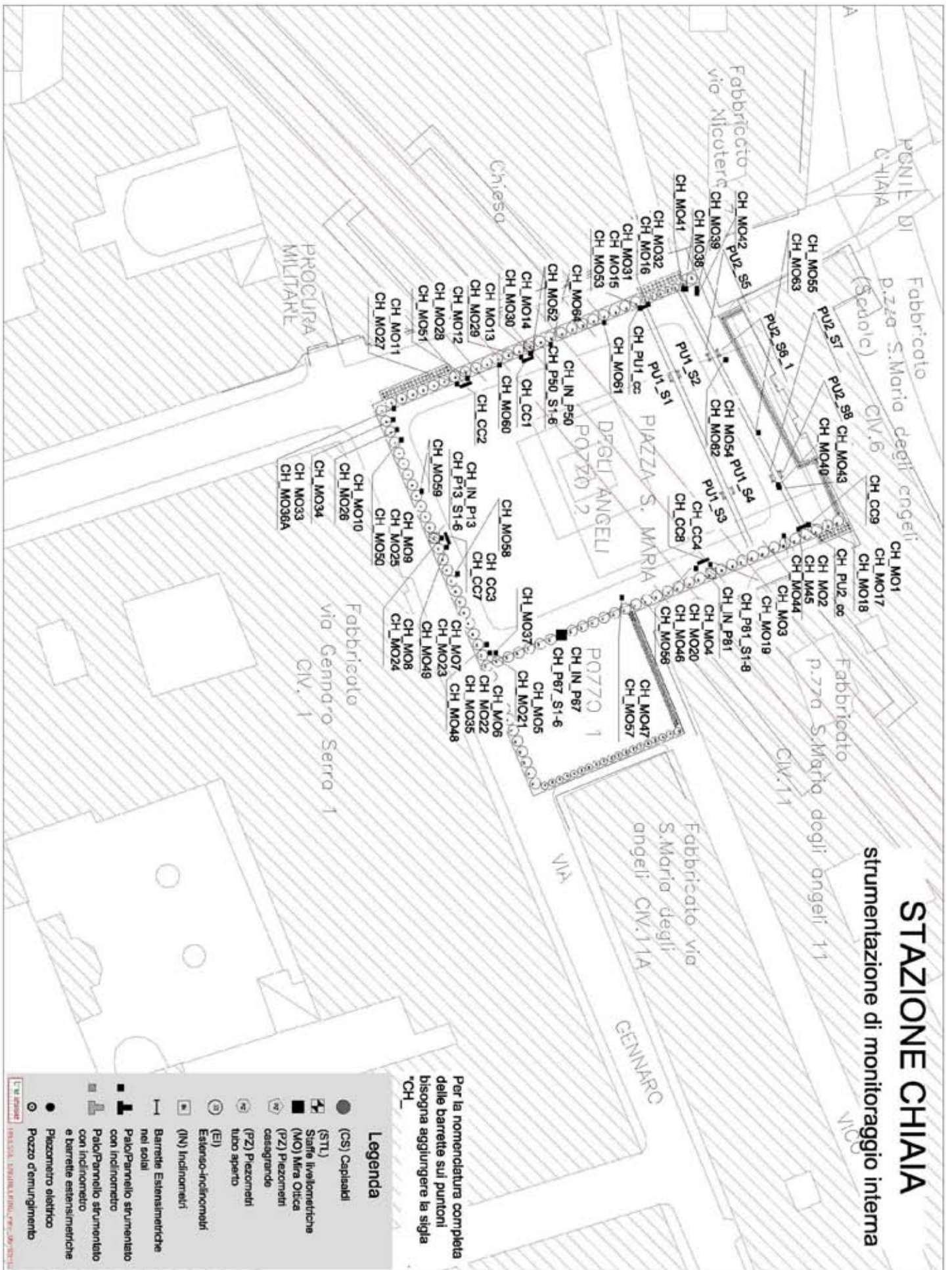



Figura 4.1.: Planimetria pozzo stazione, raffigurante la disposizione della strumentazione di monitoraggio geotecnico interno installata.

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5. PLANIMETRIA E SEZIONI ANDAMENTO TETTO DEL TUFO

Nella figura 5.1 viene rappresentata la Planimetria pozzo stazione, nella quale è riportata la collocazione di alcuni sondaggi effettuati per la campagna propedeutica alla stesura del Progetto Definitivo (2005).

Nella figura 5.2 viene rappresentato l'andamento del tetto del Tufo (lato monte e lato mare) con uno stralcio tratto dall'elaborato grafico del Progetto Definitivo (Stazione Chiaia) allegato alla Relazione Geologica (cod. doc.:LM67F2C0159 – ANNO 2005).

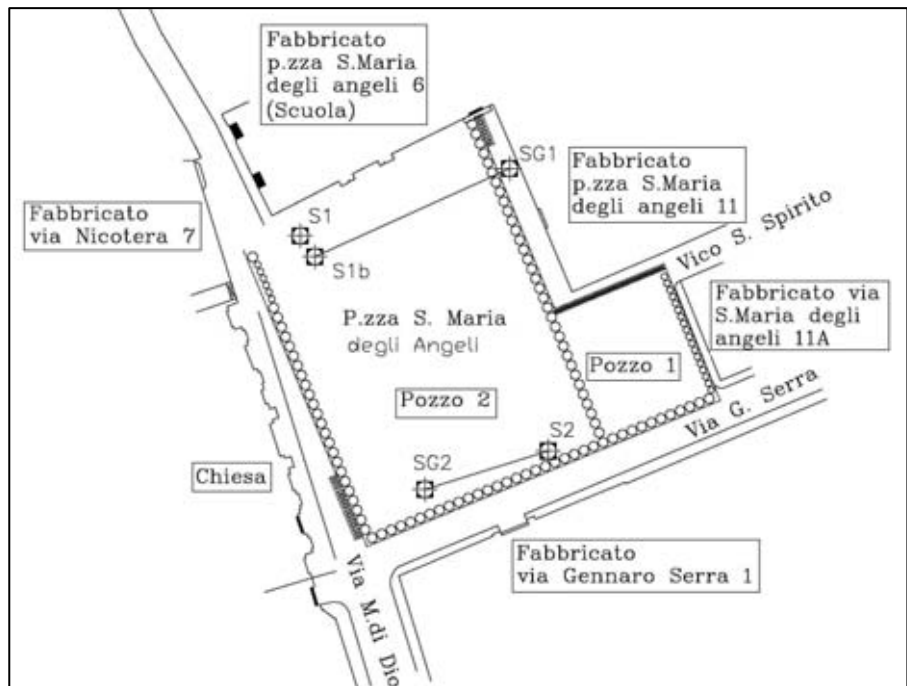


Figura 5.1.: Planimetria pozzo stazione, raffigurante la collocazione di alcuni sondaggi effettuati per la campagna propedeutica alla stesura del Progetto Definitivo (2005).

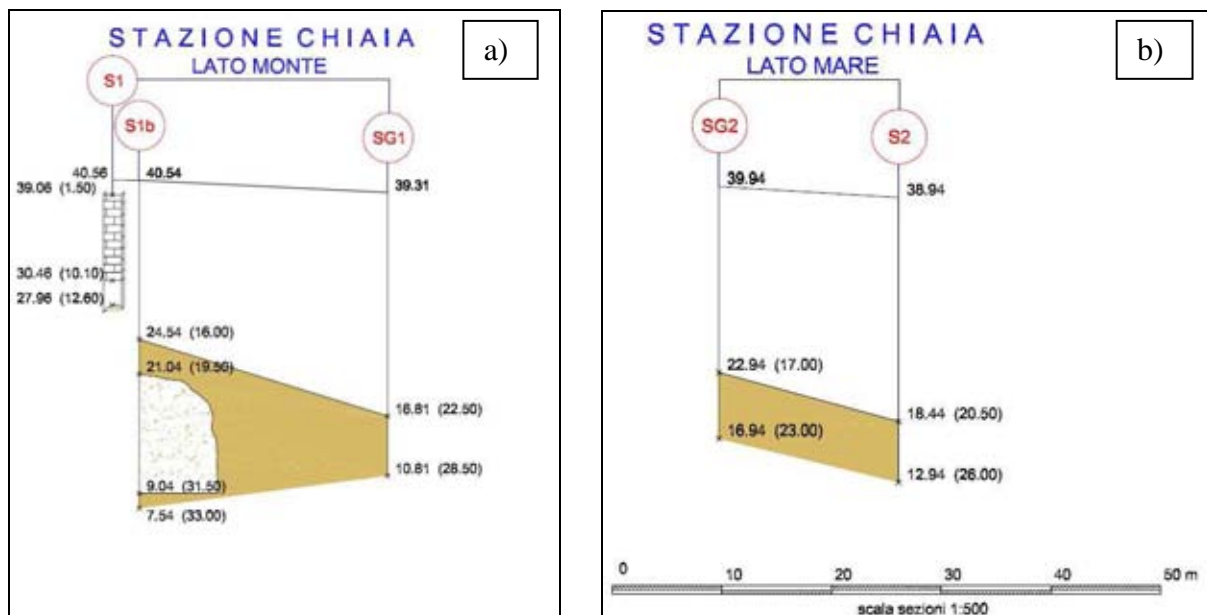



Figura 5.2a e5.2b.: Andamento del tetto del Tufo (lato monte e lato mare) - Stralcio da Elaborato grafico Progetto Definitivo Stazione Chiaia allegato alla Relazione Geologica (cod. doc.: LM67F2C0159 – ANNO 2005).


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6.FASI LAVORATIVE

Nel presente capitolo vengono espone le principali lavorazioni in svolgimento nel cantiere di Chiaia (Metropolitana di Napoli - Linea 6).

Le indicazioni riportate, aggiornate al periodo di riferimento del presente report, sono frutto sia delle osservazioni in sito dei tecnici Tre Esse sia delle informazioni comunicateci dall'Impresa Esecutrice.

Nella planimetria e nelle sezioni realizzate dalla Scrivente, di seguito riportate, sono state individuate e stimate qualitativamente le aree interessate dalle lavorazioni ritenute significative ai fini del monitoraggio, che rispetto al periodo d'osservazione precedente non hanno subito variazioni rilevanti. La planimetria in figura 6.1 raffigura il pozzo stazione, con la suddivisione in aree di lavoro. Riferendoci alle sezioni A-A'(fig.6.2), B-B'(fig.6.3), si osserva quanto di seguito riportato. Le principali fasi lavorative hanno riguardato il proseguimento degli scavi per l'approfondimento del pozzo stazione, la conclusione dei lavori per l'allargamento della galleria lato san Pasquale e il prosieguo degli scavi per l'allargo lato Municipio. Sul lato prossimo alla scuola, longitudinalmente alla facciata principale dell'edificio sono presenti 2 puntoni in acciaio di contrasto fra le paratie di pannelli. Le paratie di pannelli sono inoltre collegate fra di loro a varie quote grazie all'utilizzo di travi in acciaio tirantate, che risultano sul lato

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V.G. Serra 1 sotto l'impalcato in fase di completamento fino al terzo ordine di tiranti, sugli altri lati è stato completato il secondo ordine.

La strumentazione geotecnica prossima alle sezioni è la seguente:

- tubi inclinometrici CH_IN1, CH_IN_P67, tubo piezometrico (a tubo aperto) CH_PZ2, per la sezione A-A'
- tubo estenso-inclinometrico CH_EI1/ES1 e inclinometrico CH_IN3, CH_PZ3 per la sezione B-B'

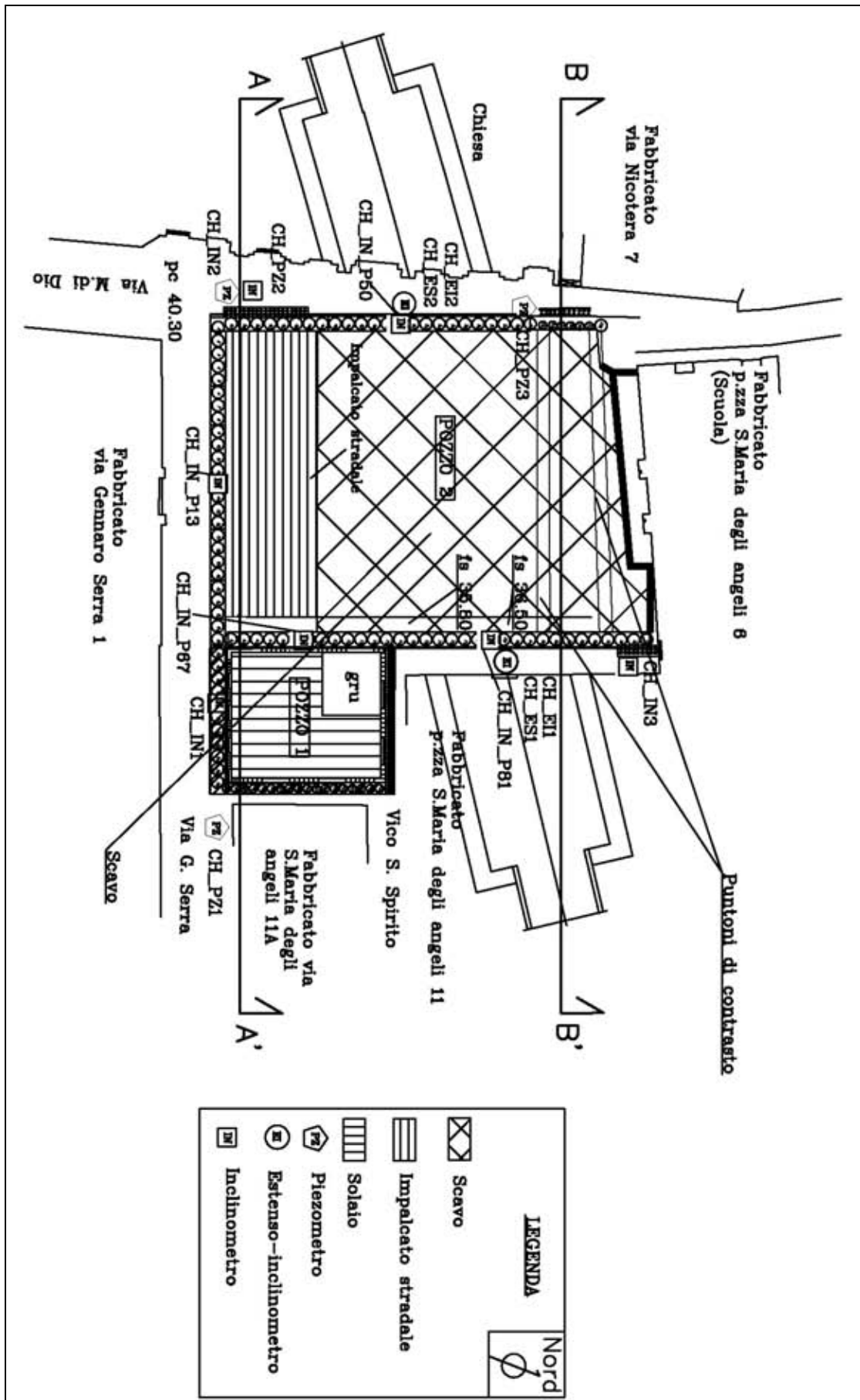


Figura 6.1.: Planimetria pozzo stazione, raffigurante la suddivisione in aree di lavoro.

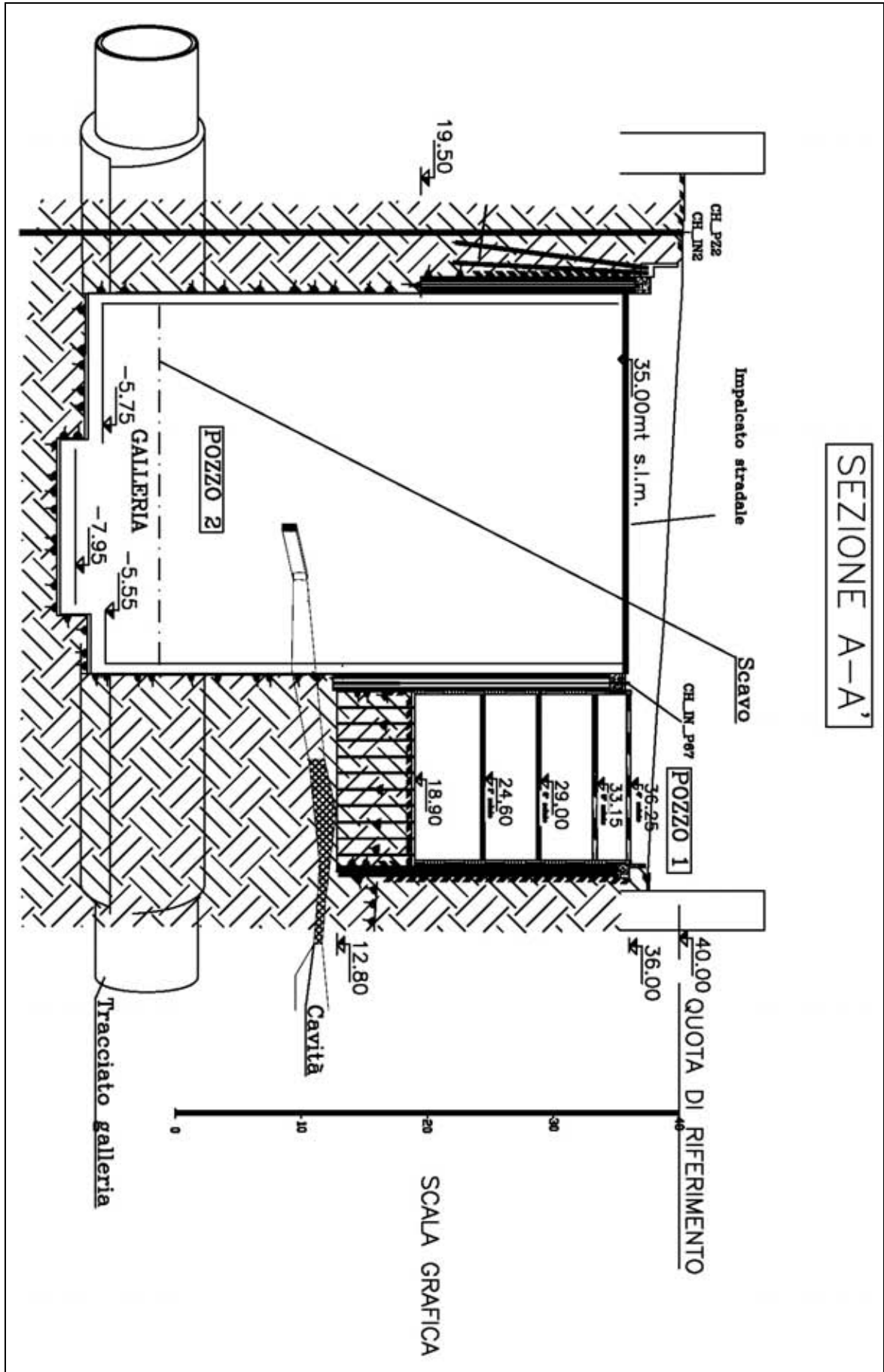


Figura 6.2.: Sezione A-A' pozzo stazione, raffigurante la suddivisione in aree di lavoro.

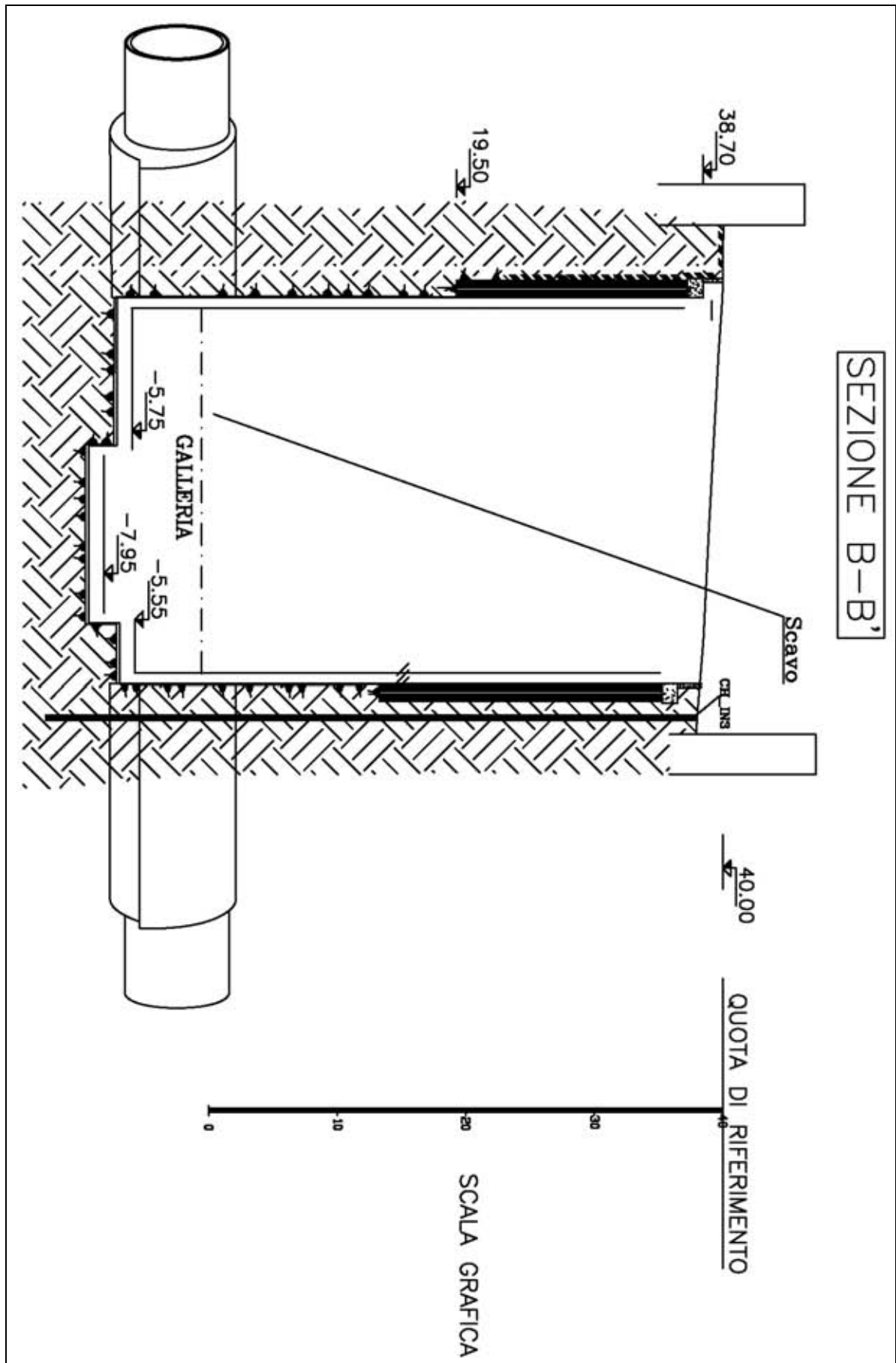



Figura 6.3.: Sezione B-B' pozzo stazione, raffigurante la suddivisione in aree di lavoro.

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7. MISURE GEOTECNICHE – INCLINOMETRICHE

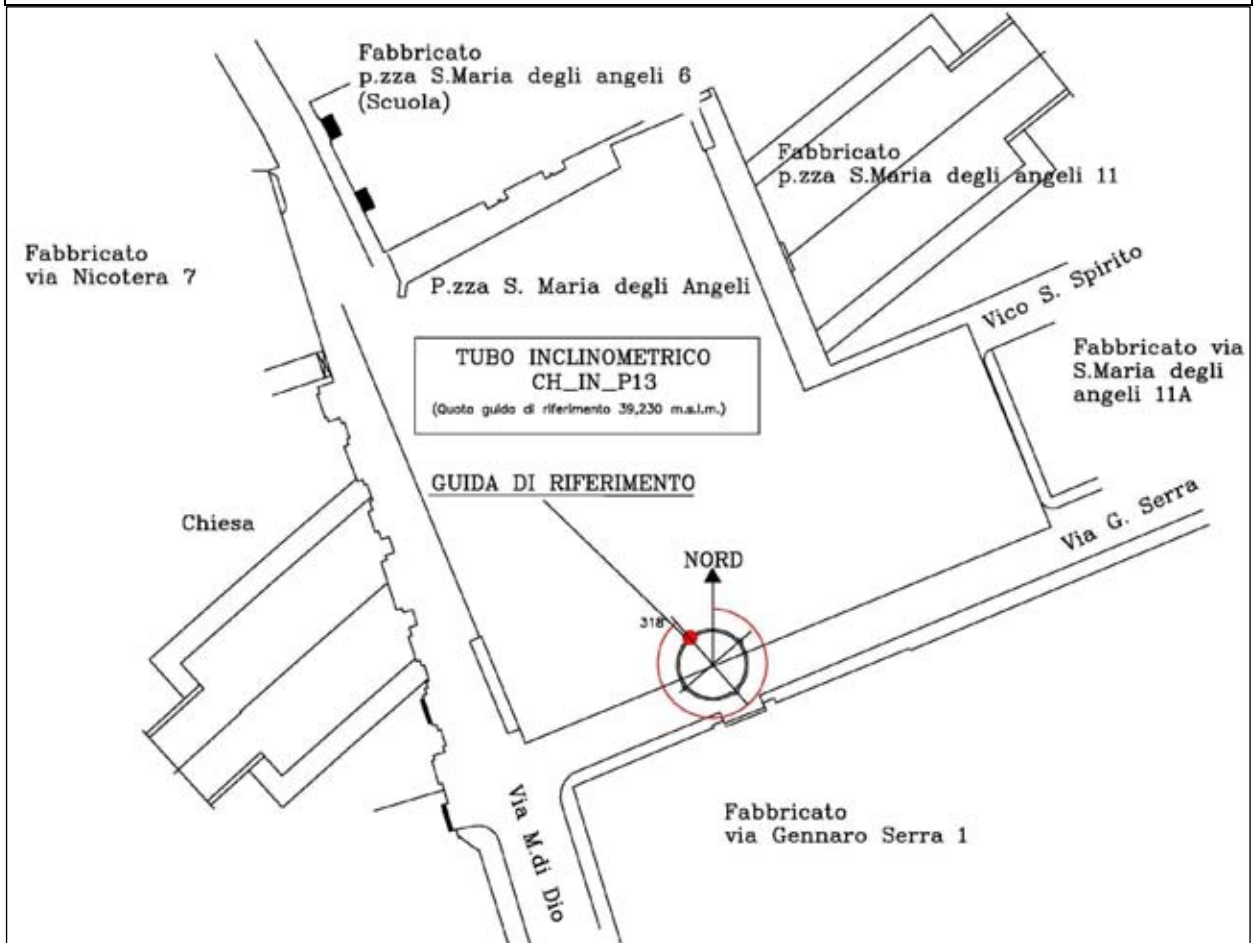
Gli inclinometri sono strumenti di controllo dei movimenti e delle deformazioni dei terreni nonché delle variazioni di assetto delle strutture. I rilievi consistono nella misura della variazione delle inclinazioni rispetto alla verticale di punti significativi, dall'inclinazione, mediante integrazione numerica si risale agli spostamenti sul piano x-y. La strumentazione di base è composta da tubo inclinometrico a sezione circolare provvisto di scanalature con funzione di guida per la sonda, sonda inclinometrica, cavo e centralina di misura.

Tabella riepilogativa per gli inclinometri installati in cantiere

NOME	TIPOLOGIA STRUMENTO	DATA INSTALLAZIONE	DISPONIBILITA' LETTURA			NOTE
			DATA LETTURA DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
CH_IN_P13	INCLINOMETRO	06/12/10	22/12/10			
CH_IN_P50	INCLINOMETRO	21/12/10	21/01/11			
CH_IN_P67	INCLINOMETRO	18/11/09	25/11/09			
CH_IN_P81	INCLINOMETRO	21/12/10	21/01/11			

Inclinometro

CH_IN_P13



Affidabilità strumentale
A.T.I. LM6 – TreEsse

buono
da rivedere
da scartare

X

Congruenza progettuale
C.T. ATI LM6 – C.T. Monitoraggio

congruente
non congruente, da valutare
non congruente con implicazioni sulla
sicurezza

NOTE

Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P13**
 Azimut di riferimento **318**
 Quota guida rif. (m.s.l.m.) **39,23**
 Data lettura di zero **22/12/2010**
 Data posa in opera **06/12/2010**

Misura **77** in data **25/10/2013 12.01**

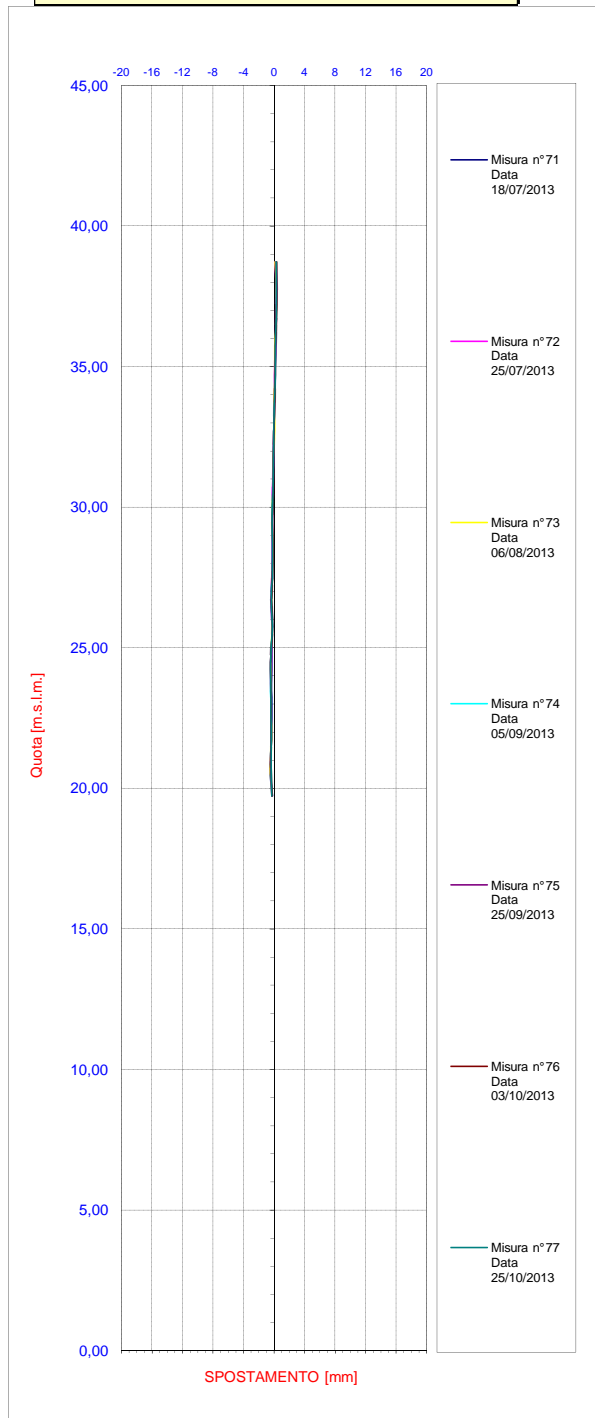
SPOSTAMENTI LOCALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
38,7	0,306	0,128	0,332	67,374
37,7	0,305	-0,137	0,334	114,228
36,7	0,287	-0,394	0,488	143,907
35,7	0,184	-0,245	0,306	143,189
34,7	0,185	-0,180	0,258	134,180
33,7	0,067	-0,104	0,124	147,275
32,7	-0,043	-0,101	0,110	203,221
31,7	-0,058	-0,216	0,223	195,076
30,7	-0,102	-0,097	0,141	226,544
29,7	-0,241	-0,043	0,245	260,000
28,7	-0,213	0,029	0,215	277,779
27,7	-0,192	-0,029	0,194	261,289
26,7	-0,332	0,156	0,367	295,103
25,7	-0,224	0,269	0,350	320,262
24,7	-0,425	0,431	0,606	315,409
23,7	-0,431	0,427	0,607	314,745
22,7	-0,405	0,492	0,637	320,553
21,7	-0,371	0,391	0,539	316,488
20,7	-0,391	0,565	0,687	325,294
19,7	-0,301	0,516	0,597	329,776

SPOSTAMENTI INTEGRALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
38,7	-2,396	1,858	3,032	307,787
37,7	-2,702	1,730	3,209	302,628
36,7	-3,007	1,867	3,539	301,838
35,7	-3,294	2,261	3,995	304,466
34,7	-3,478	2,506	4,287	305,780
33,7	-3,663	2,686	4,543	306,256
32,7	-3,730	2,790	4,658	306,801
31,7	-3,687	2,891	4,685	308,105
30,7	-3,628	3,107	4,777	310,570
29,7	-3,526	3,204	4,764	312,256
28,7	-3,285	3,246	4,618	314,660
27,7	-3,072	3,217	4,448	316,325
26,7	-2,880	3,246	4,340	318,428
25,7	-2,547	3,091	4,005	320,506
24,7	-2,324	2,822	3,656	320,530
23,7	-1,899	2,391	3,053	321,545
22,7	-1,468	1,963	2,451	323,224
21,7	-1,063	1,472	1,815	324,160
20,7	-0,692	1,081	1,283	327,378
19,7	-0,301	0,516	0,597	329,776

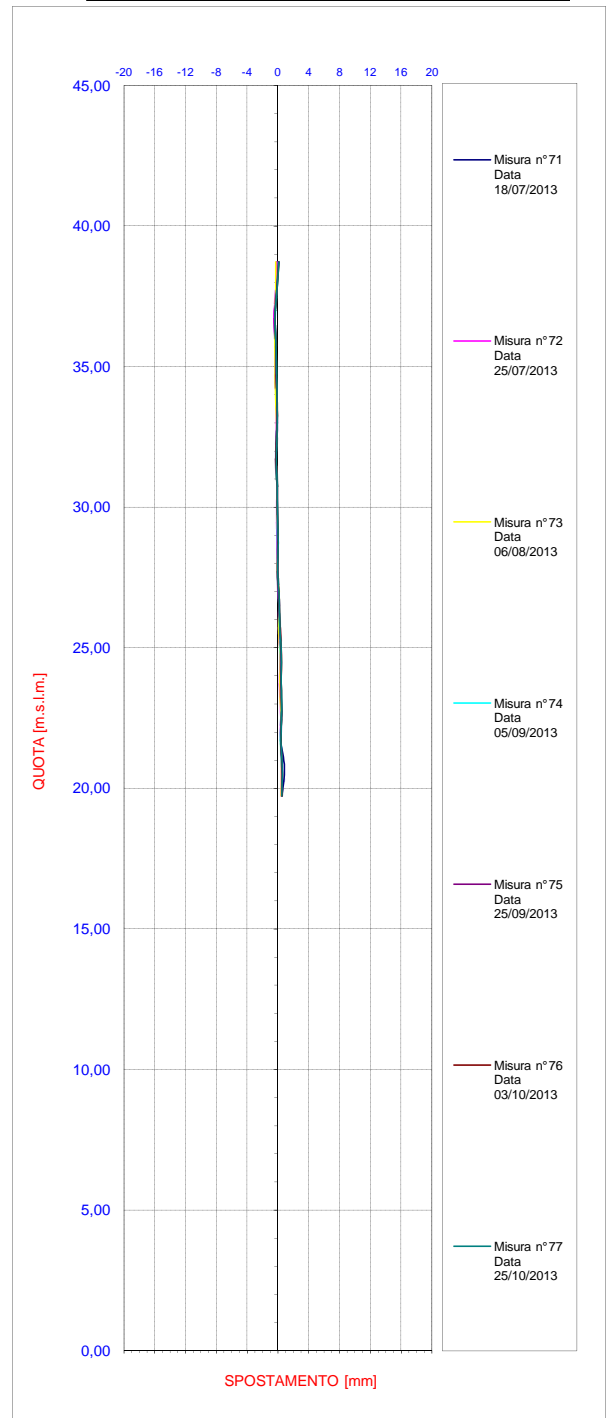
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P13**
 Azimut di riferimento **318**
 Quota guida rif. (m.s.l.m.) **39,23**
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 Data posa in opera **06/12/2010**

Ultima Misura **77** in data **25/10/2013 12.01**

**Spostamenti Differenziali Locali
OVEST- (valori negativi) / EST + (valori positivi)**

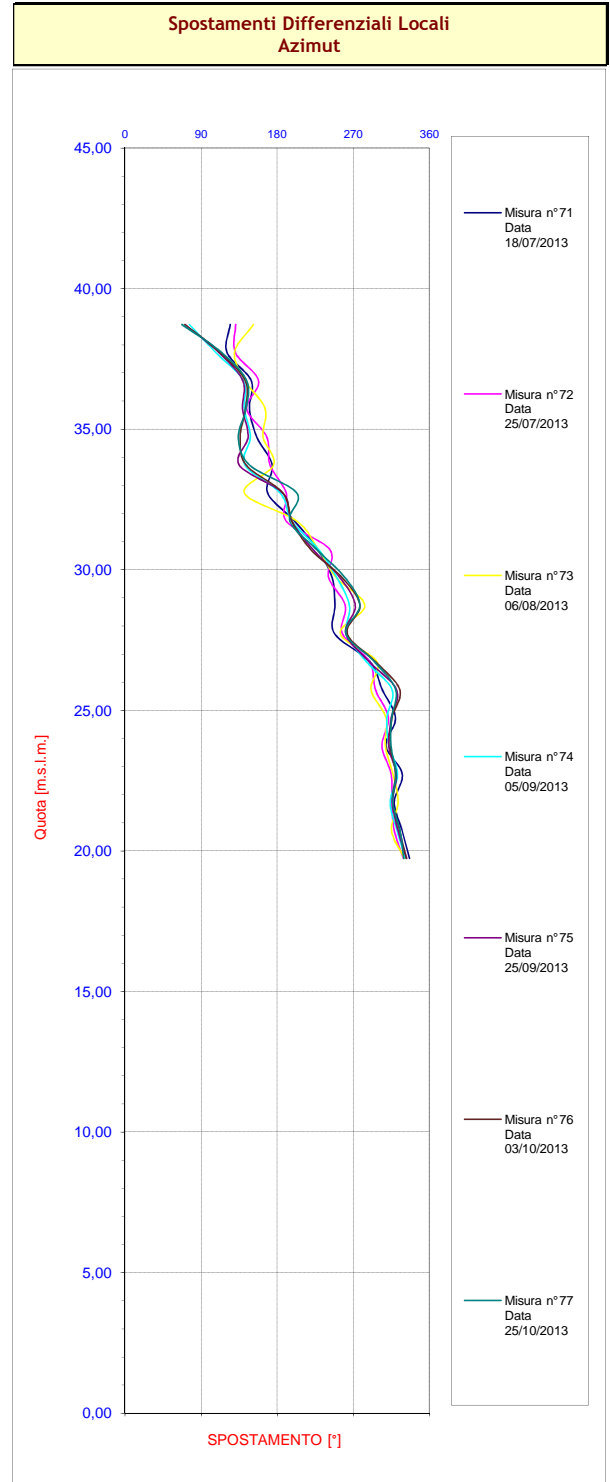
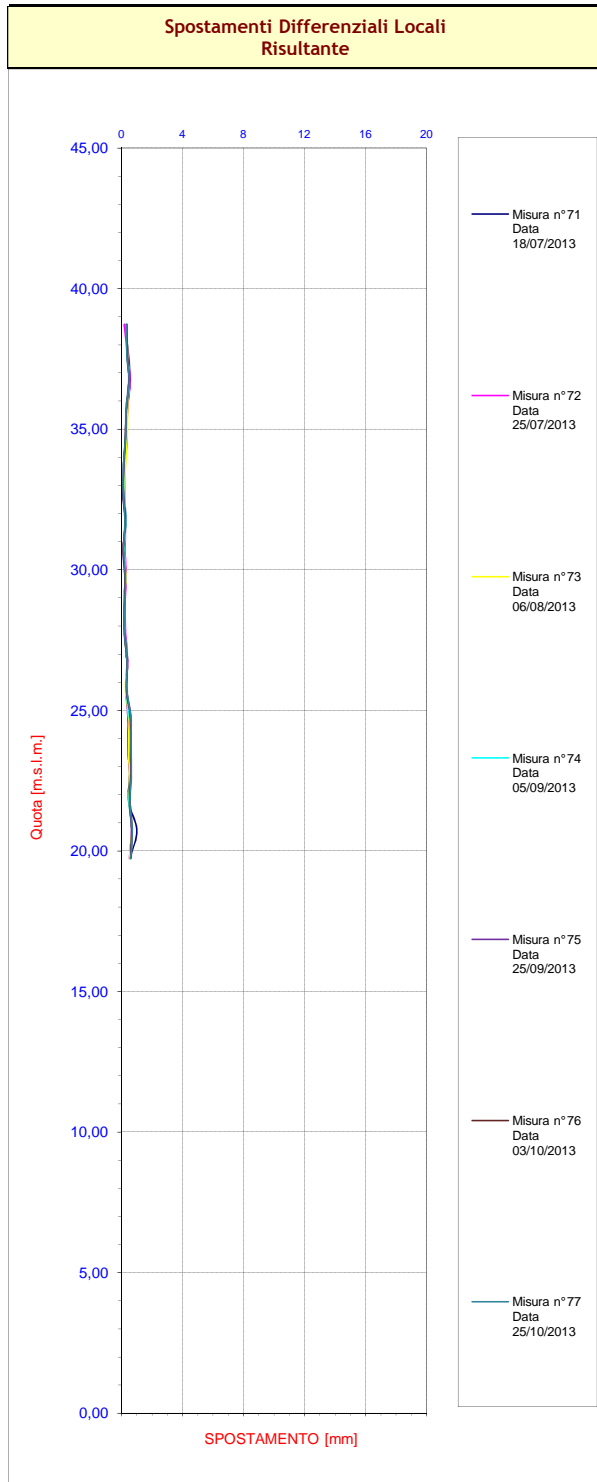


**Spostamenti Differenziali Locali
SUD - (valori negativi) / NORD + (valori positivi)**



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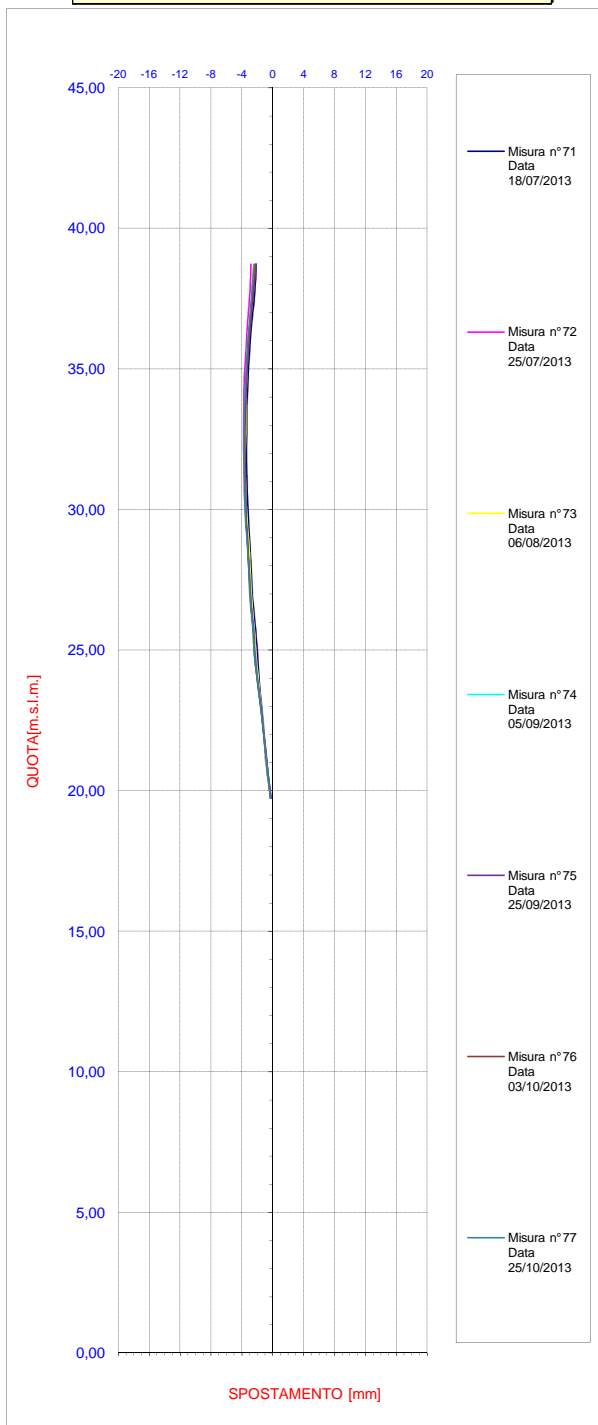
Ultima Misura **77** in data **25/10/2013 12.01**



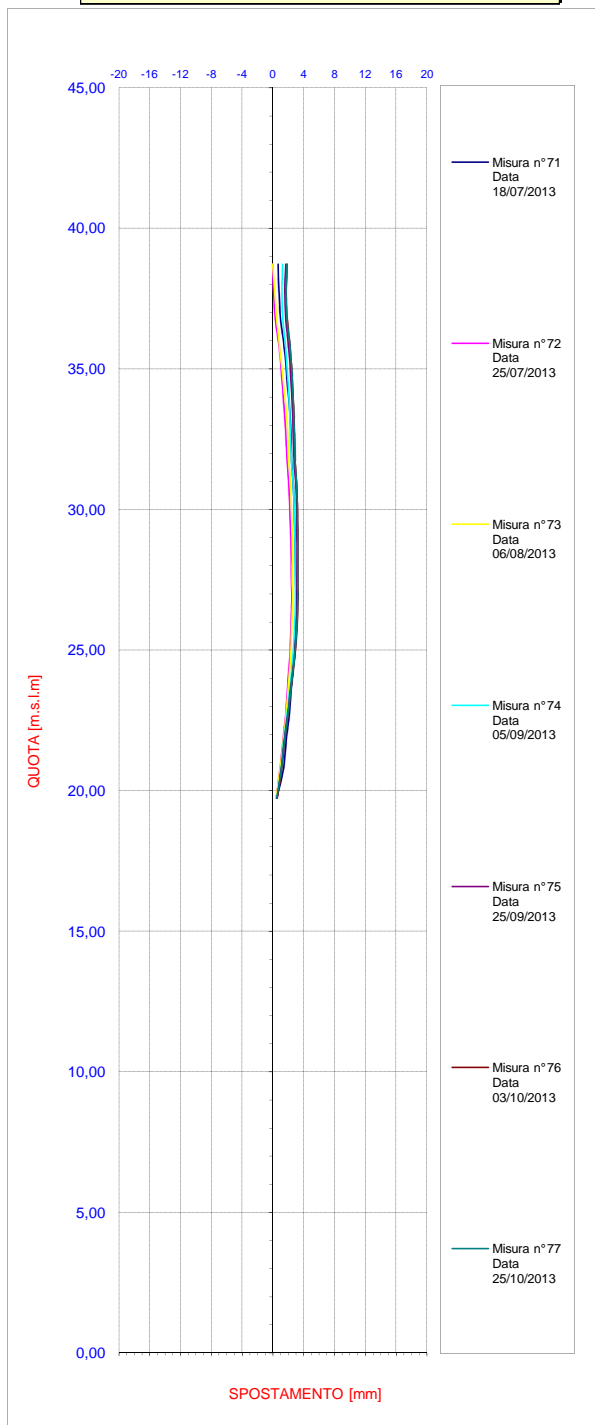
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 Data posa in opera **06/12/2010**

Ultima Misura **77** in data **25/10/2013 12.01**

Spostamenti Differenziali Integrali
OVEST- (valori negativi) / EST + (valori positivi)



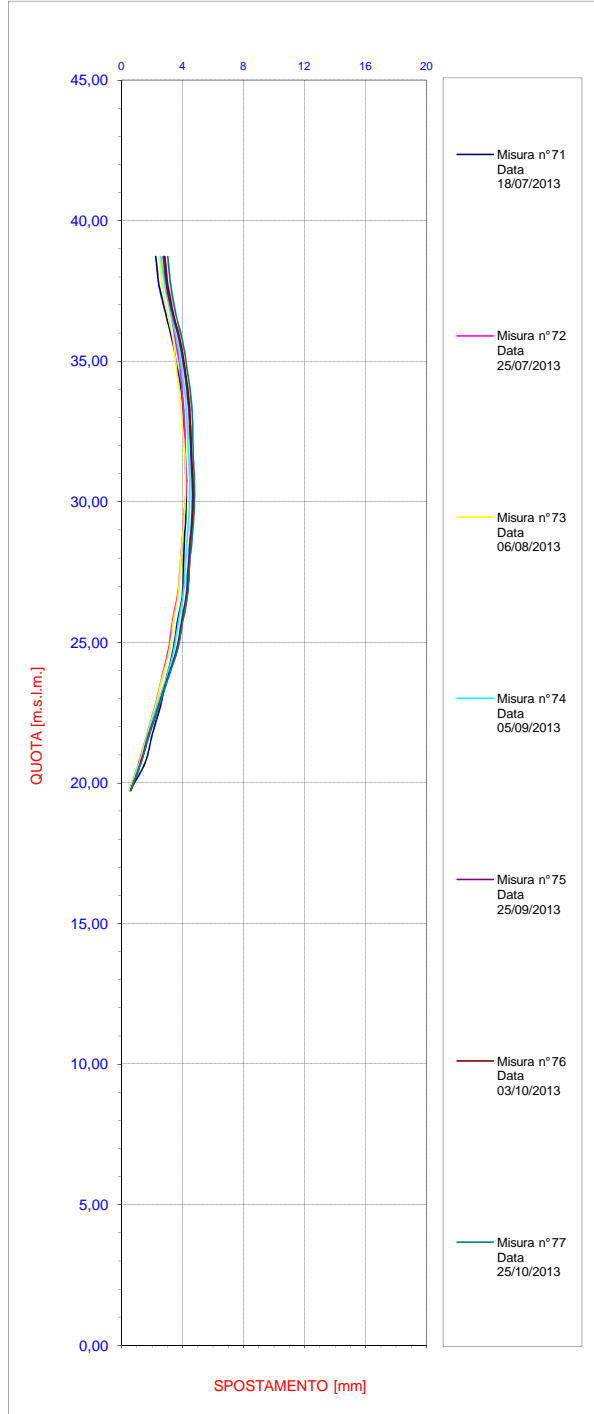
Spostamenti Differenziali Integrali
SUD - (valori negativi) / NORD + (valori positivi)



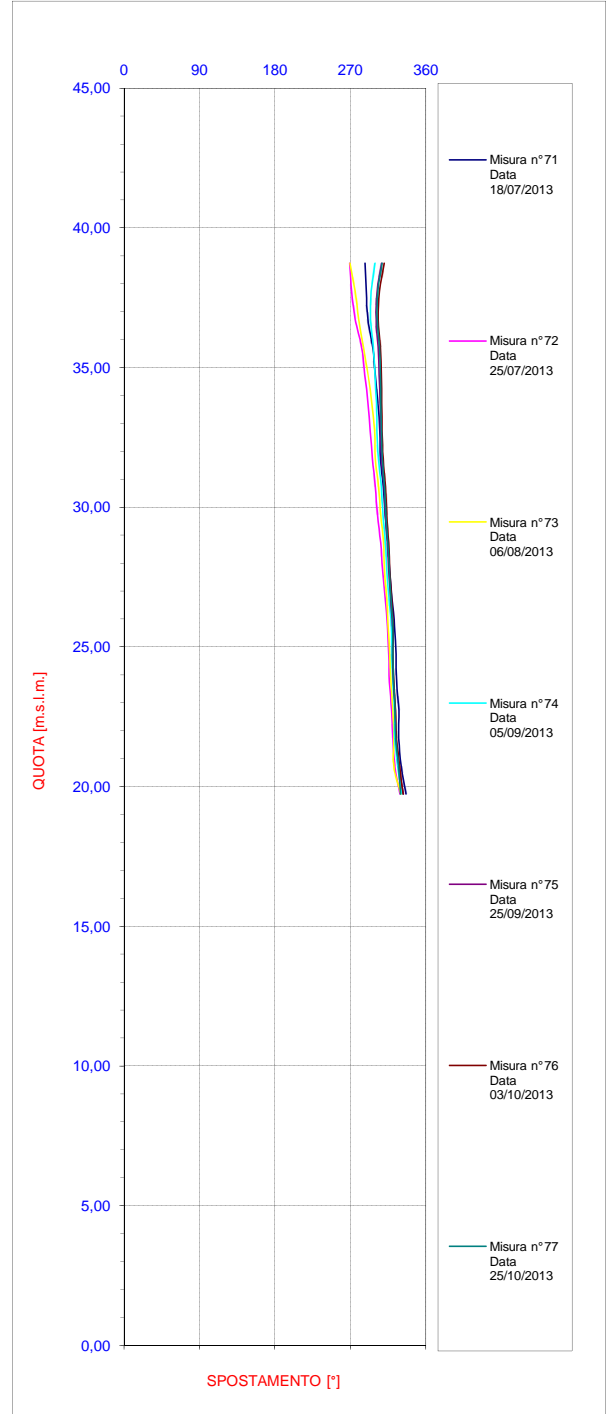
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Ultima Misura **77** in data **25/10/2013 12.01**

Spostamenti Differenziali Integrali Risultante



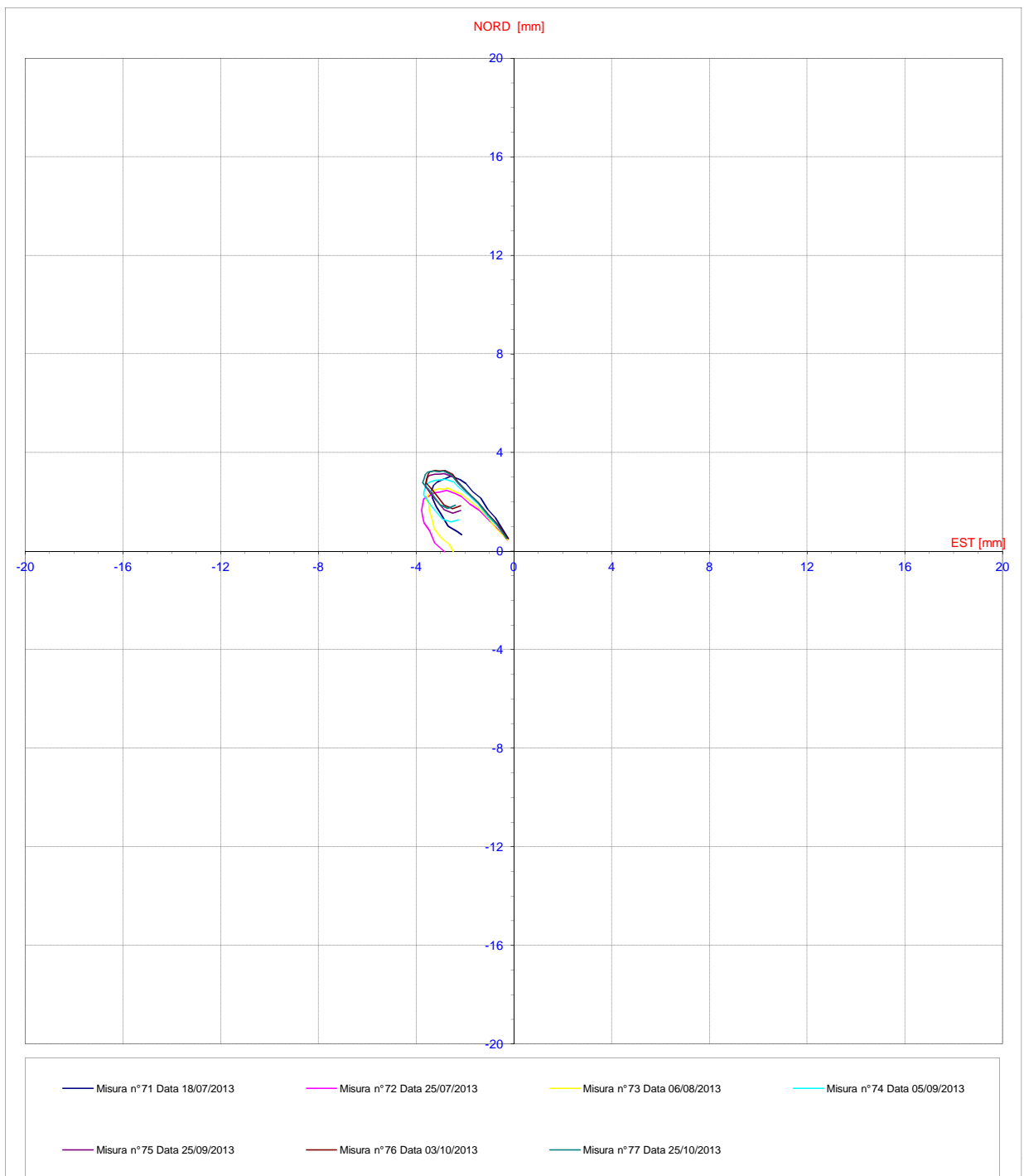
Spostamenti Differenziali Integrali Azimut



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 Data posa in opera **06/12/2010**

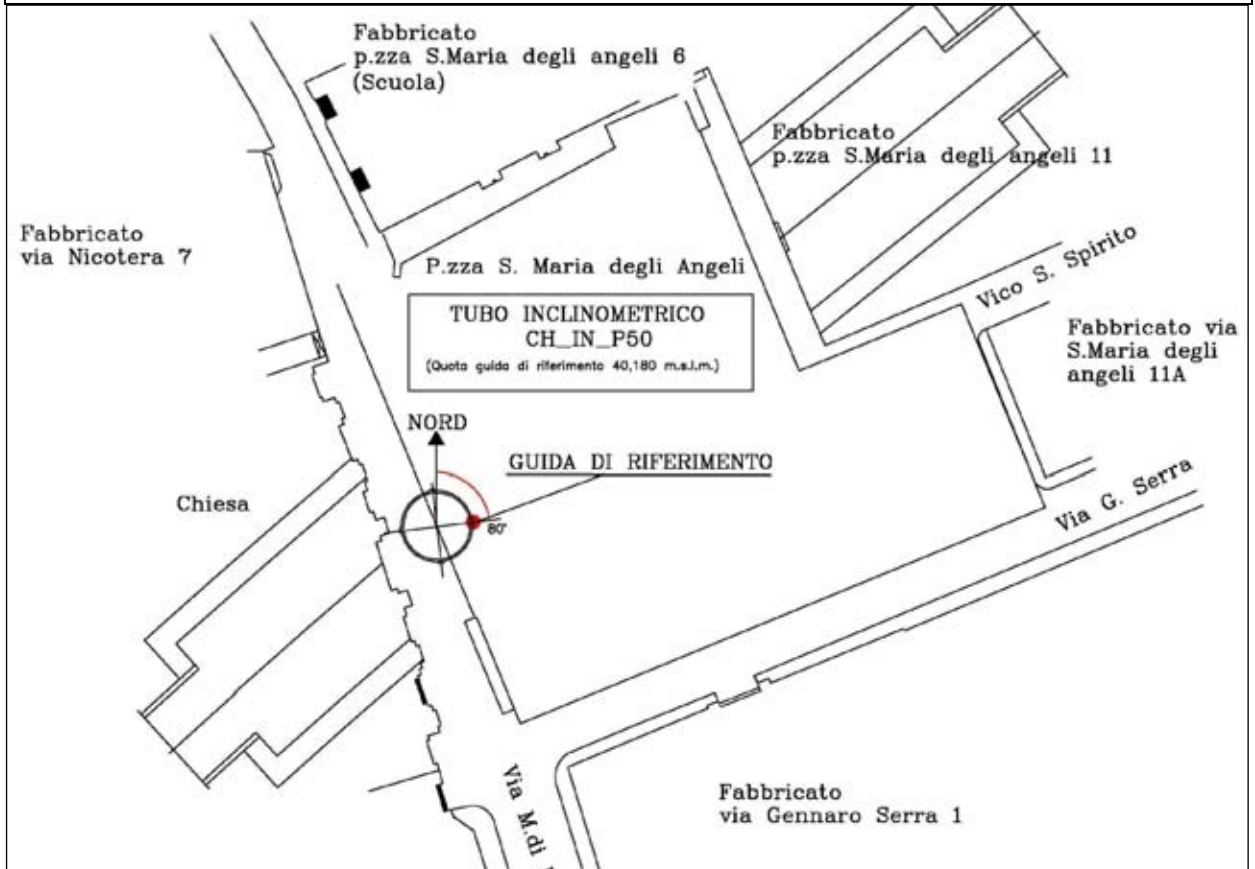
Ultima Misura **77** in data **25/10/2013 12.01**

Spostamenti Differenziali Integrali
Diagramma polare



Inclinometro

CH_IN_P50



Affidabilità strumentale
A.T.I. LM6 – TreEsse

buono
da rivedere
da scartare

X

Congruenza progettuale
C.T. ATI LM6 – C.T. Monitoraggio

congruente
non congruente, da valutare
non congruente con implicazioni sulla
sicurezza

NOTE

Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P50**
 Azimut di riferimento **80**
 Quota guida rif. (m.s.l.m.) **40,18**
 Data lettura di zero **21/01/2011**
 Data posa in opera **21/12/2010**

Misura **82** in data **25/10/2013 11.49**

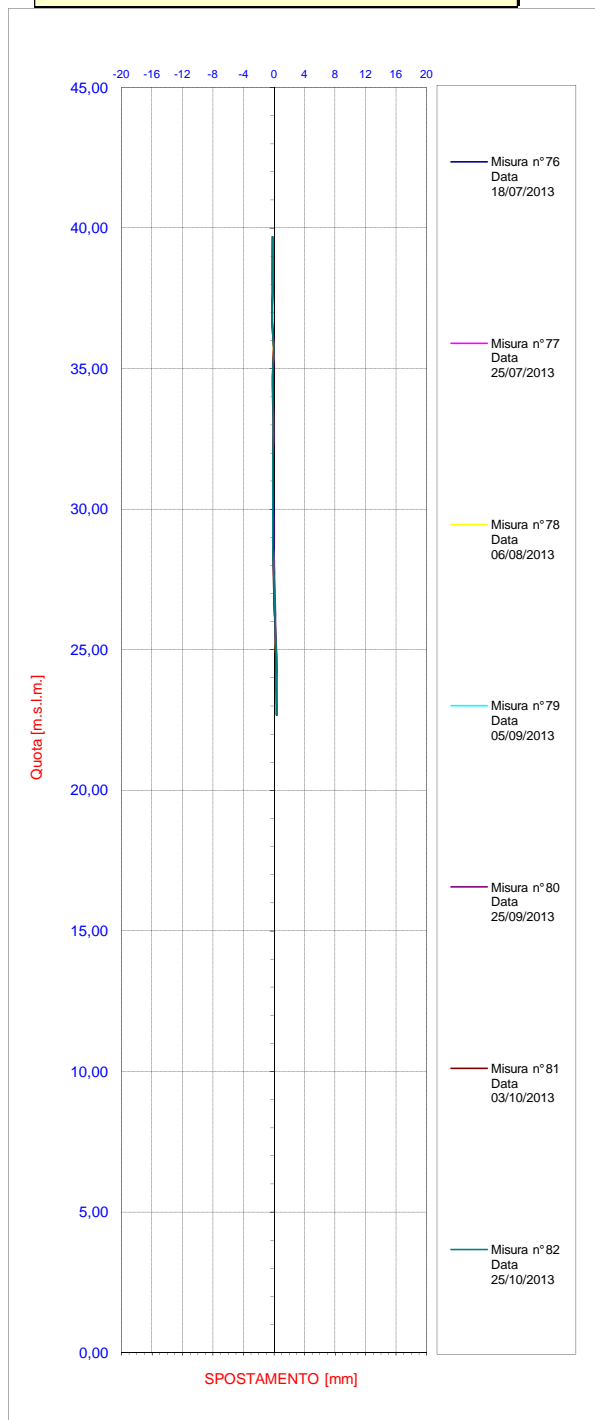
SPOSTAMENTI LOCALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
39,7	-0,203	-0,165	0,262	230,924
38,7	-0,243	-0,111	0,267	245,410
37,7	-0,202	-0,054	0,209	255,050
36,7	-0,247	-0,140	0,284	240,549
35,7	-0,038	-0,245	0,248	188,850
34,7	-0,188	-0,131	0,229	235,200
33,7	-0,115	-0,178	0,212	212,920
32,7	-0,076	-0,012	0,077	260,777
31,7	-0,137	0,011	0,137	274,416
30,7	-0,137	0,071	0,155	297,437
29,7	-0,156	0,047	0,163	286,860
28,7	-0,138	-0,035	0,142	255,658
27,7	-0,053	0,014	0,054	285,019
26,7	0,040	0,081	0,090	26,431
25,7	0,176	0,132	0,220	53,082
24,7	0,298	0,081	0,309	74,760
23,7	0,339	0,105	0,355	72,856
22,7	0,360	0,053	0,364	81,694

SPOSTAMENTI INTEGRALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
39,7	-0,718	-0,476	0,862	236,474
38,7	-0,515	-0,311	0,602	238,887
37,7	-0,272	-0,200	0,338	233,738
36,7	-0,071	-0,146	0,162	205,858
35,7	0,177	-0,006	0,177	92,060
34,7	0,215	0,239	0,321	41,972
33,7	0,403	0,370	0,547	47,480
32,7	0,518	0,547	0,754	43,433
31,7	0,594	0,559	0,816	46,700
30,7	0,731	0,549	0,914	53,090
29,7	0,868	0,478	0,991	61,180
28,7	1,024	0,430	1,110	67,191
27,7	1,161	0,466	1,251	68,150
26,7	1,214	0,452	1,295	69,593
25,7	1,174	0,371	1,231	72,470
24,7	0,998	0,238	1,026	76,557
23,7	0,699	0,157	0,717	77,332
22,7	0,360	0,053	0,364	81,694

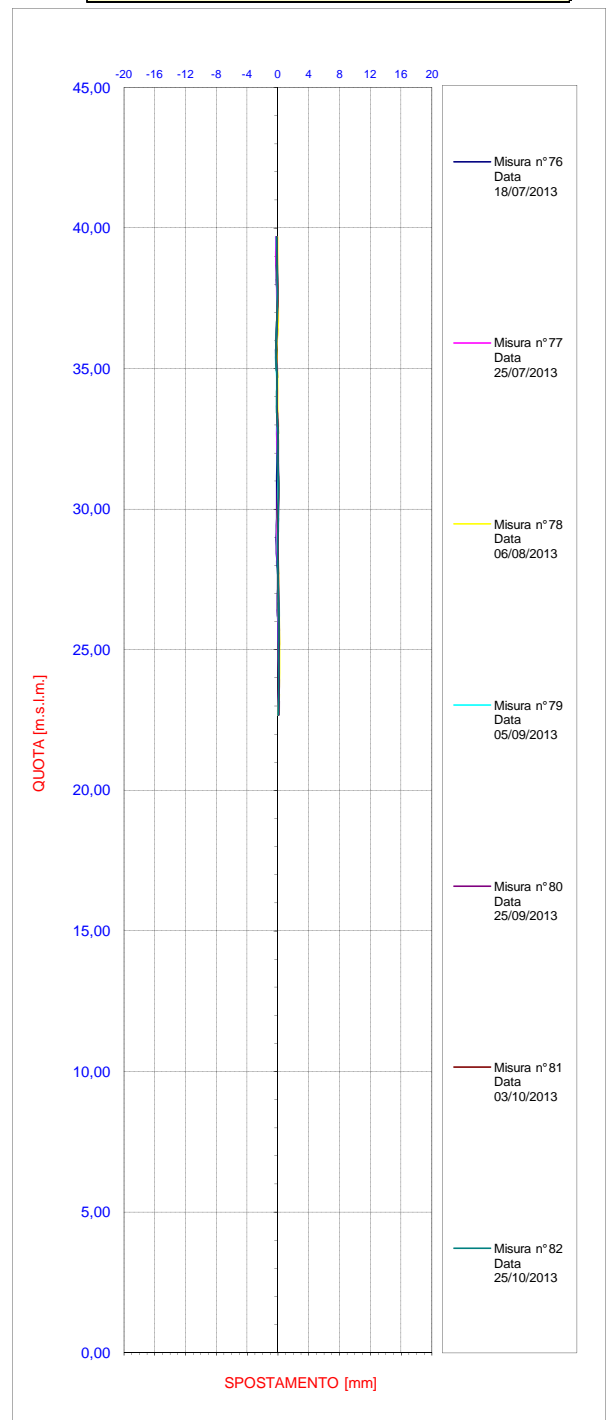
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P50**
 Azimut di riferimento **80**
 Quota guida rif. (m.s.l.m.) **40,18**
 Data lettura di zero **21/01/2011**
 Data posa in opera **21/12/2010**

Ultima Misura **82** in data **25/10/2013 11.49**

**Spostamenti Differenziali Locali
OVEST- (valori negativi) / EST + (valori positivi)**

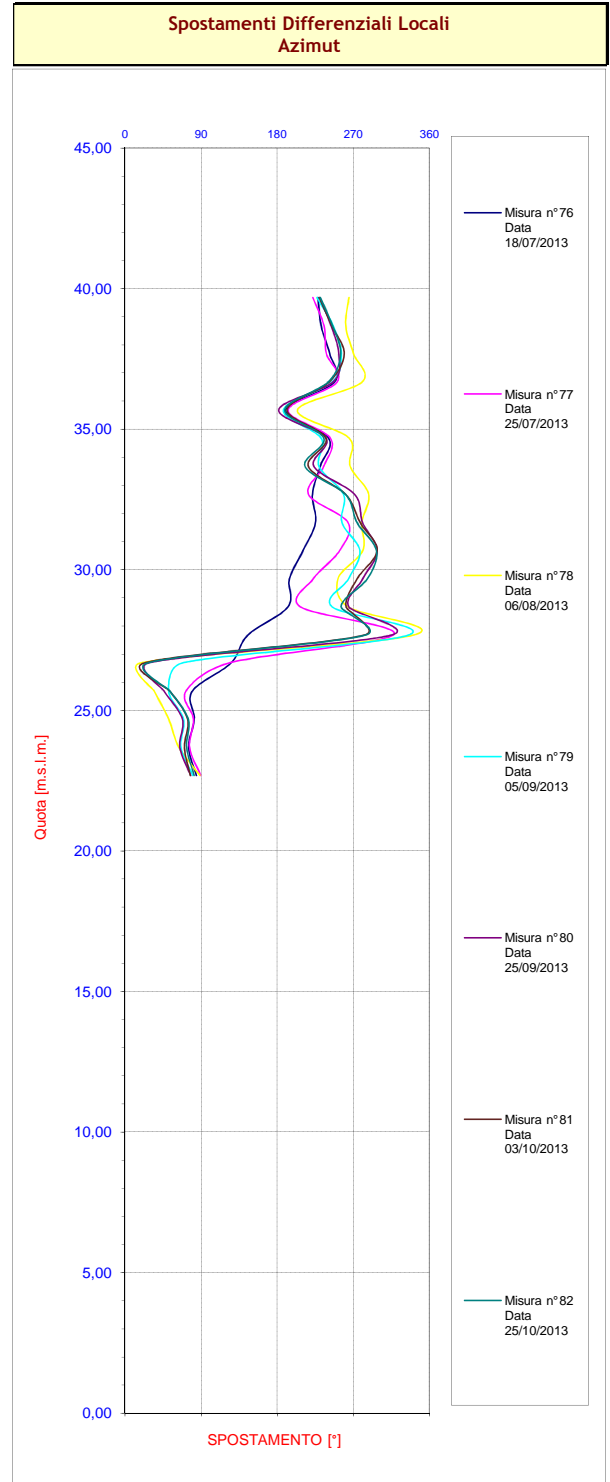
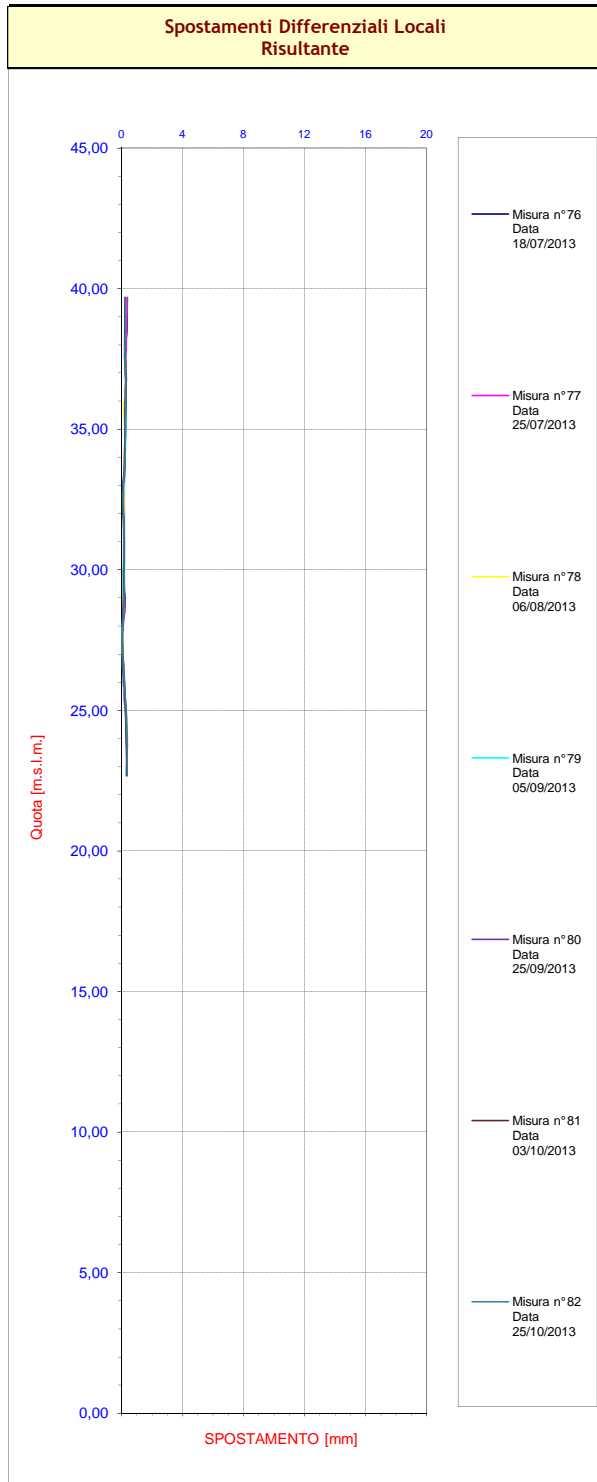


**Spostamenti Differenziali Locali
SUD - (valori negativi) / NORD + (valori positivi)**



Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P50**
 Azimut di riferimento **80**
 Quota guida rif. (m.s.l.m.) **40,18**
 Data lettura di zero **21/01/2011**
 Data posa in opera **21/12/2010**

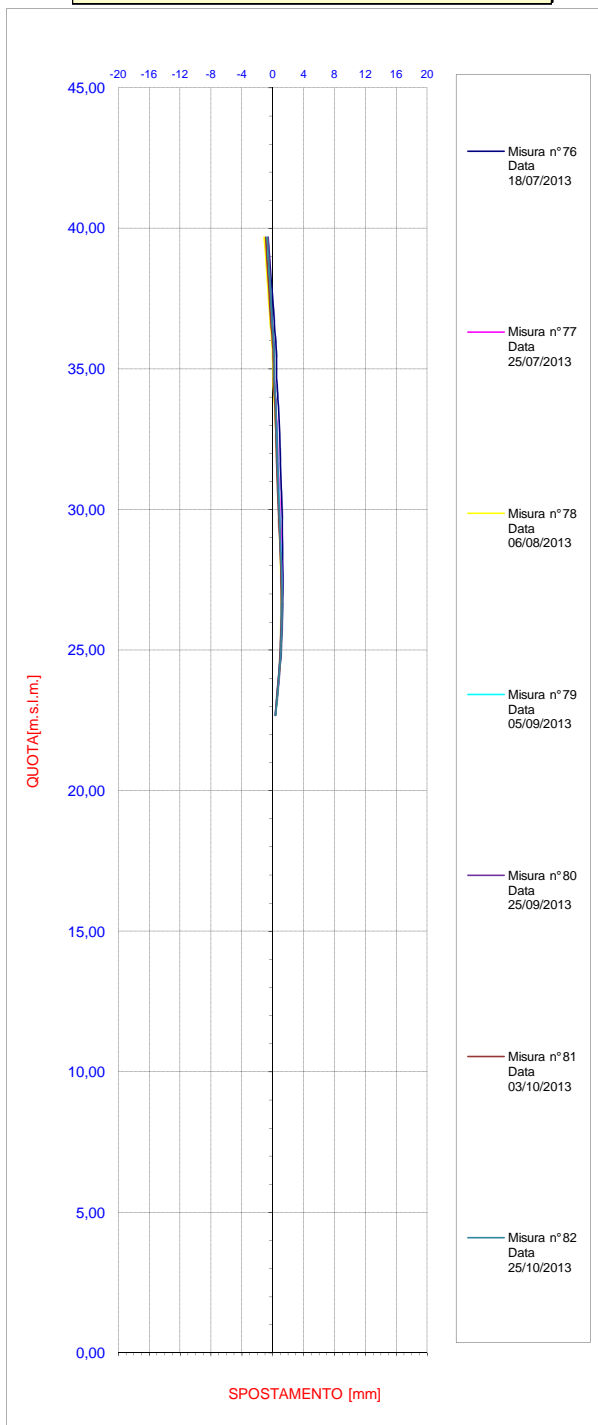
Ultima Misura **82** in data **25/10/2013 11.49**



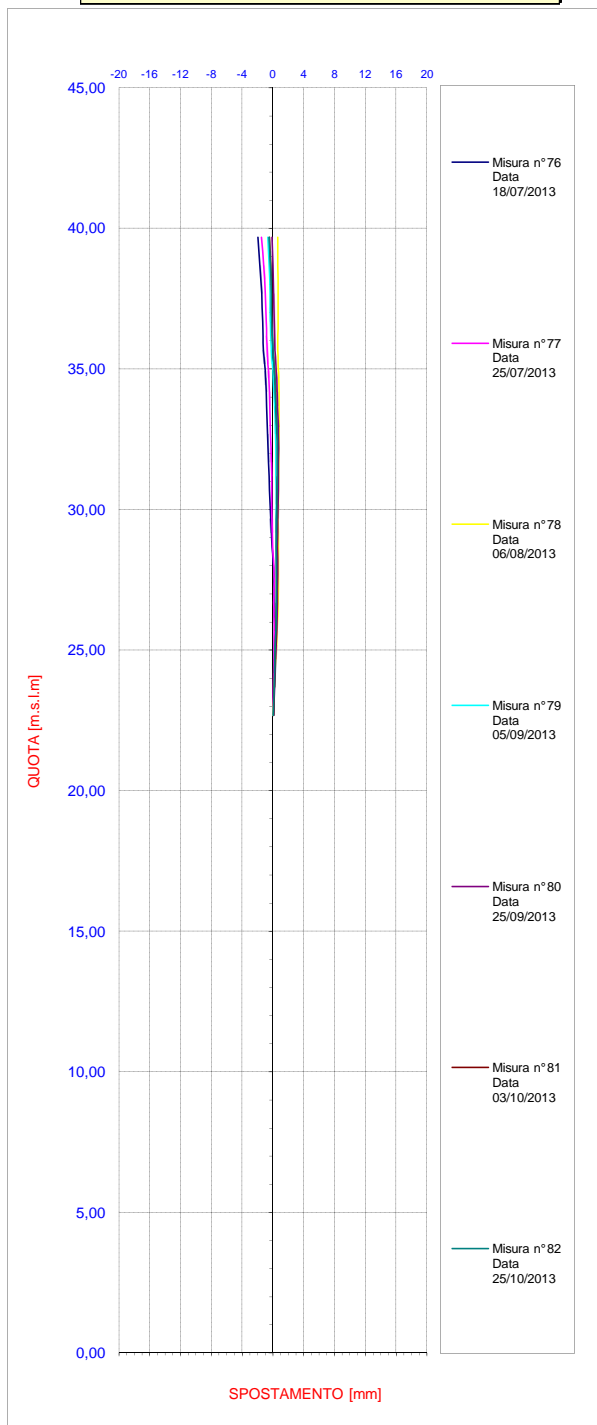
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P50**
 Azimut di riferimento **80**
 Quota guida rif. (m.s.l.m.) **40,18**
 Data lettura di zero **21/01/2011**
 Data posa in opera **21/12/2010**

Ultima Misura **82** in data **25/10/2013 11.49**

Spostamenti Differenziali Integrali
OVEST- (valori negativi) / EST + (valori positivi)



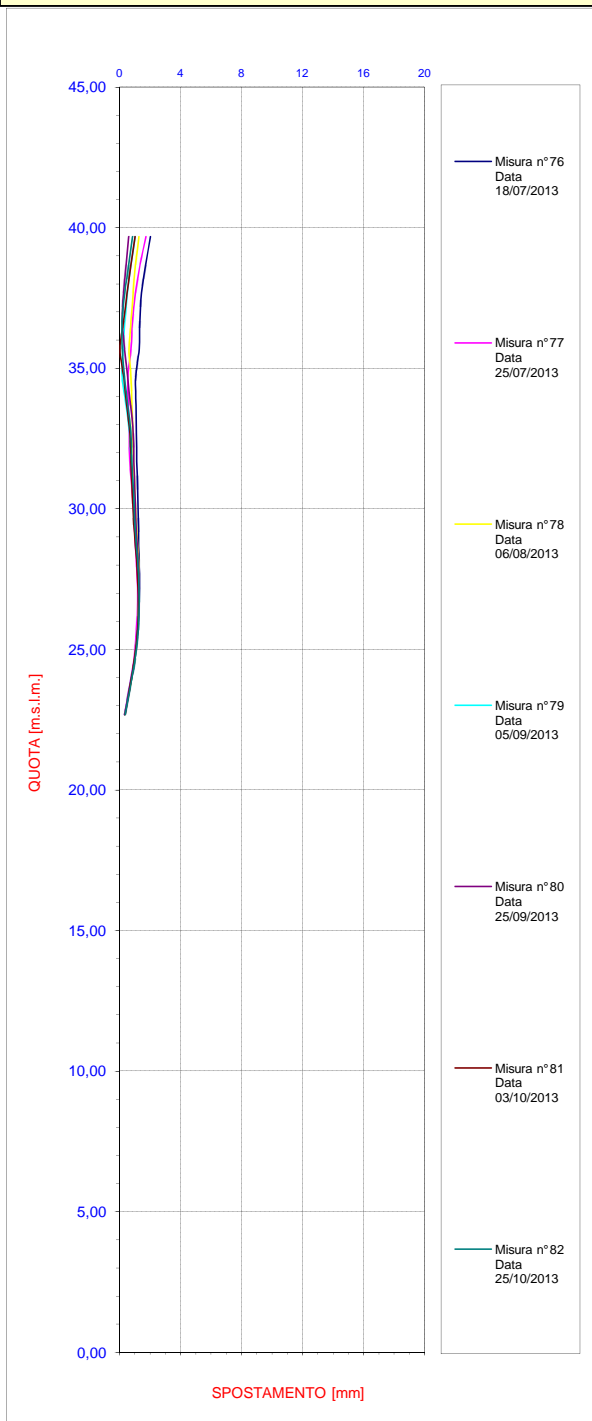
Spostamenti Differenziali Integrali
SUD - (valori negativi) / NORD + (valori positivi)



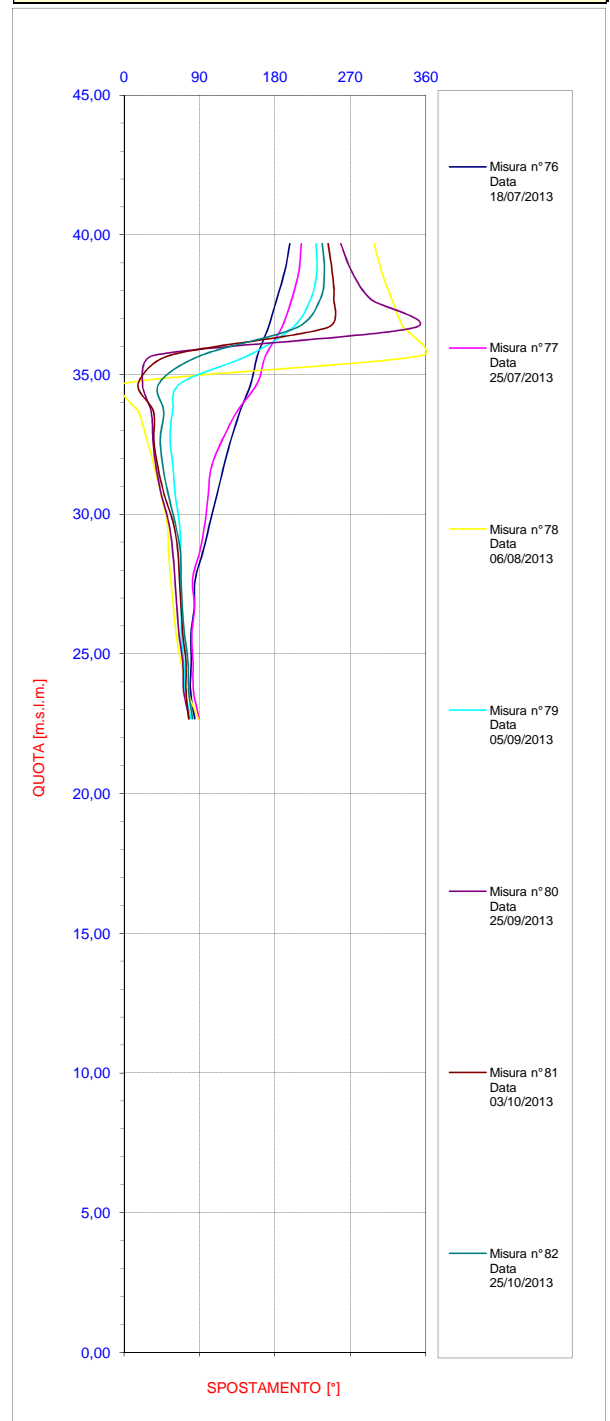
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P50**
 Azimut di riferimento **80**
 Quota guida rif. (m.s.l.m.) **40,18**
 Data lettura di zero **21/01/2011**
 Data posa in opera **21/12/2010**

Ultima Misura **82** in data **25/10/2013 11.49**

Spostamenti Differenziali Integrali Risultante



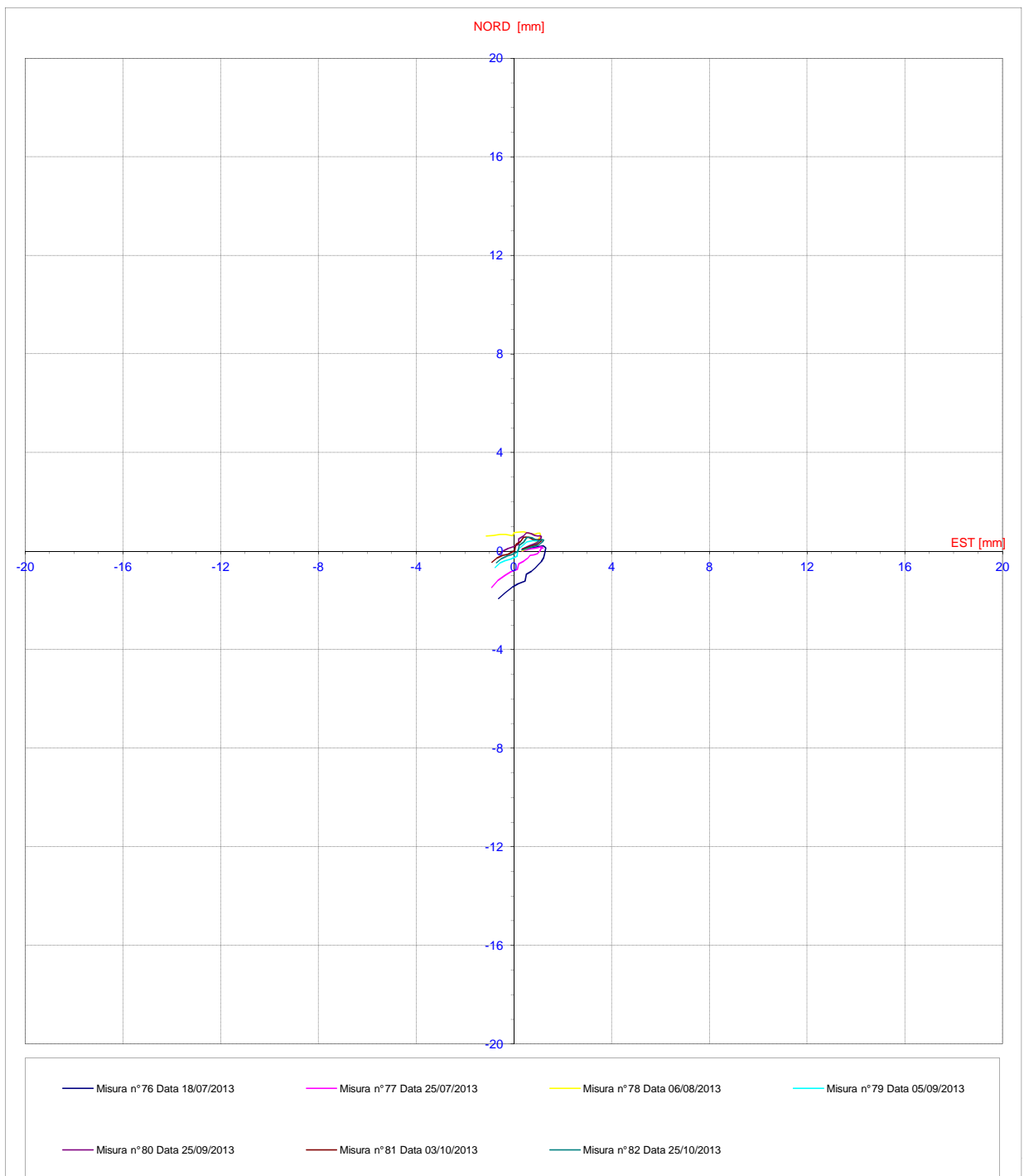
Spostamenti Differenziali Integrali Azimut



Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P50**
 Azimut di riferimento **80**
 Quota guida rif. (m.s.l.m.) **40,18**
 Data lettura di zero **21/01/2011**
 Data posa in opera **21/12/2010**

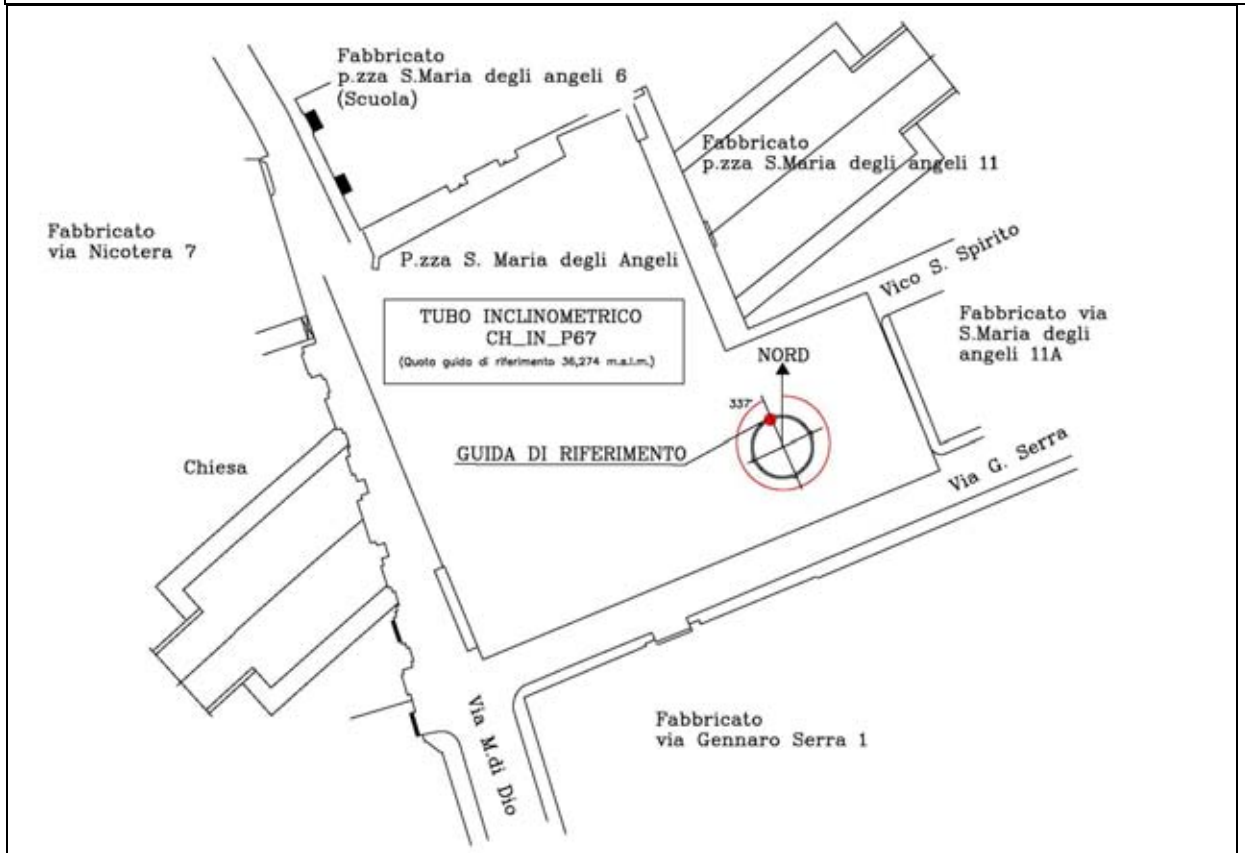
Ultima Misura **82** in data **25/10/2013 11.49**

Spostamenti Differenziali Integrali
Diagramma polare



Inclinometro

CH_IN_P67



Affidabilità strumentale
A.T.I. LM6 – TreEsse

buono
da rivedere
da scartare

X

Congruenza progettuale
C.T. ATI LM6 – C.T. Monitoraggio

congruente
non congruente, da valutare
non congruente con implicazioni sulla
sicurezza

NOTE

Ubicazione STAZIONE CHIAIA
Tipo Strumento Tubo inclinometrico
Nome tubo CH_IN_P67
Azimut di riferimento 337
Quota guida rif. (m.s.l.m.) 36,274
Data lettura di zero 25/11/2009
Data posa in opera 18/11/2009

Misura 134 **in data** 25/10/2013 12.21

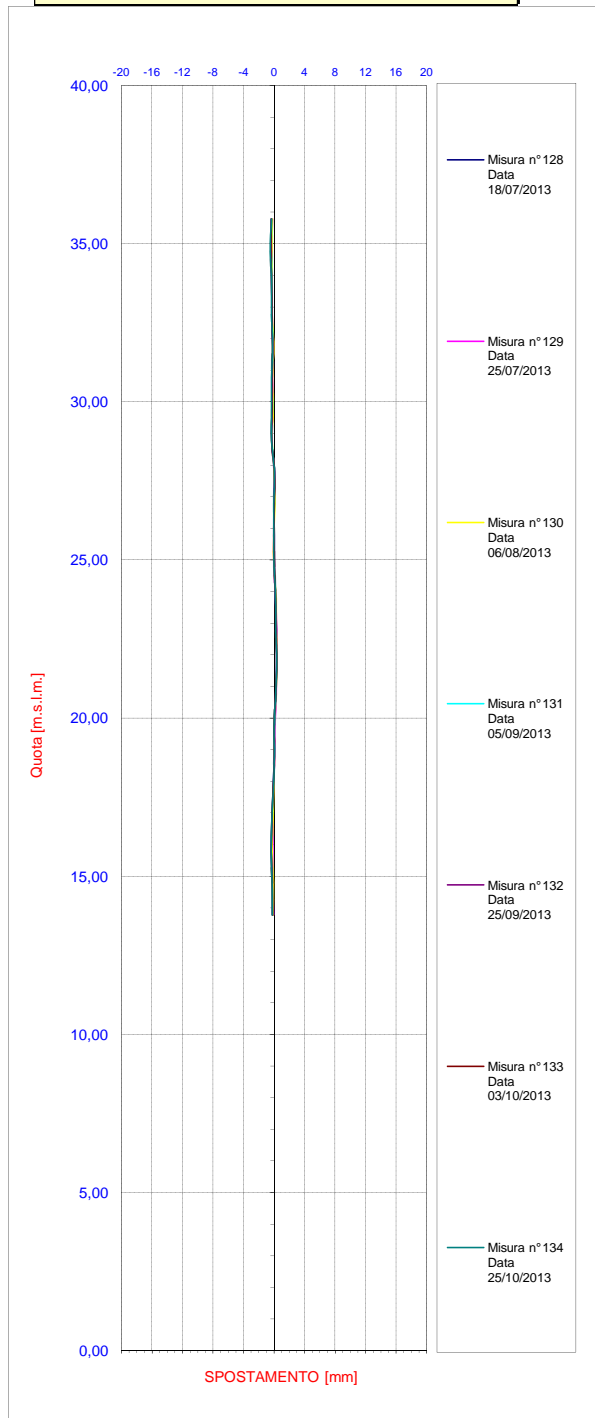
SPOSTAMENTI LOCALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
35,8	-0,341	-0,082	0,351	256,506
34,8	-0,498	0,000	0,498	270,002
33,8	-0,338	-0,030	0,339	264,889
32,8	-0,317	0,126	0,342	291,721
31,8	-0,201	0,132	0,241	303,299
30,8	-0,312	0,022	0,313	274,103
29,8	-0,336	0,324	0,466	313,945
28,8	-0,344	0,007	0,344	271,192
27,8	0,050	0,180	0,186	15,499
26,8	-0,049	0,199	0,205	346,042
25,8	-0,047	0,699	0,701	356,126
24,8	0,016	0,418	0,419	2,190
23,8	0,185	0,231	0,297	38,712
22,8	0,201	0,270	0,337	36,679
21,8	0,330	0,041	0,333	82,921
20,8	0,216	0,117	0,246	61,578
19,8	0,006	0,239	0,239	1,376
18,8	0,041	0,175	0,180	13,117
17,8	-0,103	-0,034	0,109	251,579
16,8	-0,309	0,024	0,310	274,435
15,8	-0,384	-0,045	0,387	263,342
14,8	-0,260	-0,051	0,264	258,954
13,8	-0,228	-0,025	0,229	263,796

SPOSTAMENTI INTEGRALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
35,8	-3,024	2,939	4,216	314,184
34,8	-2,683	3,021	4,040	318,391
33,8	-2,184	3,021	3,727	324,129
32,8	-1,846	3,051	3,566	328,820
31,8	-1,529	2,924	3,300	332,399
30,8	-1,328	2,792	3,092	334,570
29,8	-1,015	2,770	2,950	339,867
28,8	-0,680	2,446	2,539	344,471
27,8	-0,335	2,439	2,462	352,170
26,8	-0,385	2,260	2,292	350,325
25,8	-0,336	2,060	2,088	350,745
24,8	-0,288	1,361	1,392	348,039
23,8	-0,304	0,943	0,991	342,110
22,8	-0,490	0,712	0,864	325,458
21,8	-0,691	0,441	0,820	302,554
20,8	-1,021	0,400	1,097	291,398
19,8	-1,238	0,283	1,270	282,891
18,8	-1,243	0,044	1,244	272,039
17,8	-1,284	-0,131	1,291	264,185
16,8	-1,181	-0,096	1,185	265,335
15,8	-0,872	-0,120	0,880	262,143
14,8	-0,488	-0,075	0,493	261,203
13,8	-0,228	-0,025	0,229	263,796

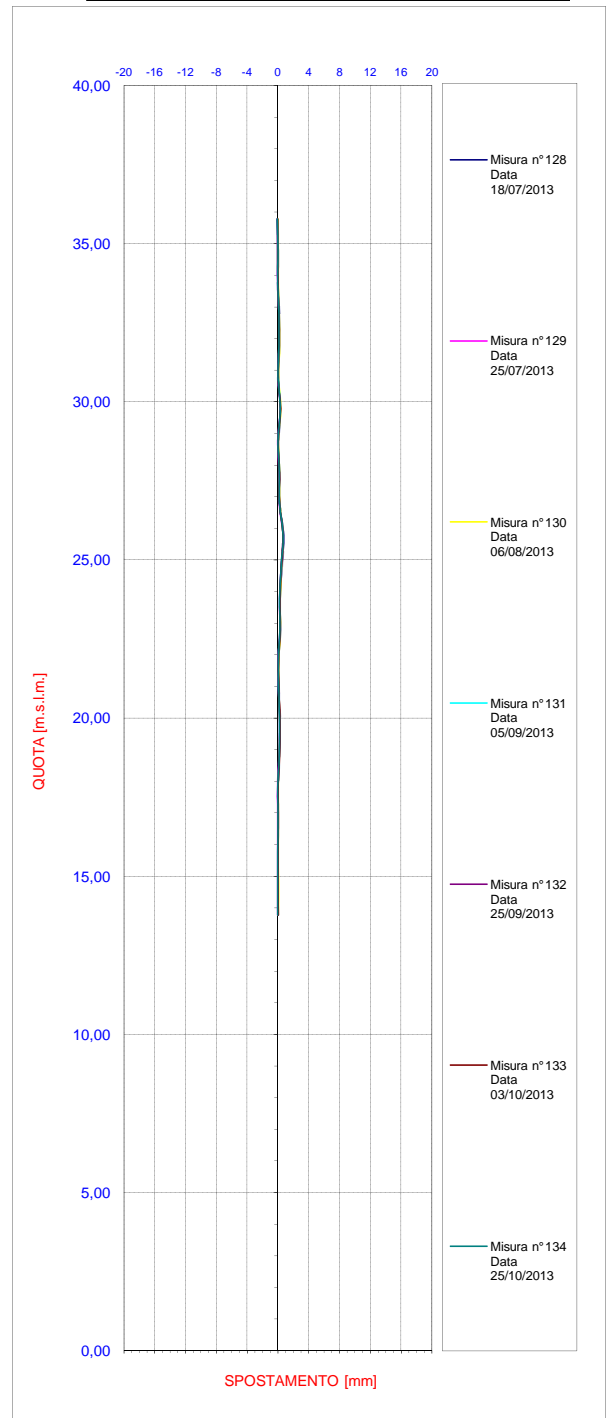
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P67**
 Azimut di riferimento **337**
 Quota guida rif. (m.s.l.m.) **36,274**
 Data lettura di zero **25/11/2009**
 Data posa in opera **18/11/2009**

Ultima Misura **134** in data **25/10/2013 12.21**

Spostamenti Differenziali Locali
OVEST- (valori negativi) / EST + (valori positivi)

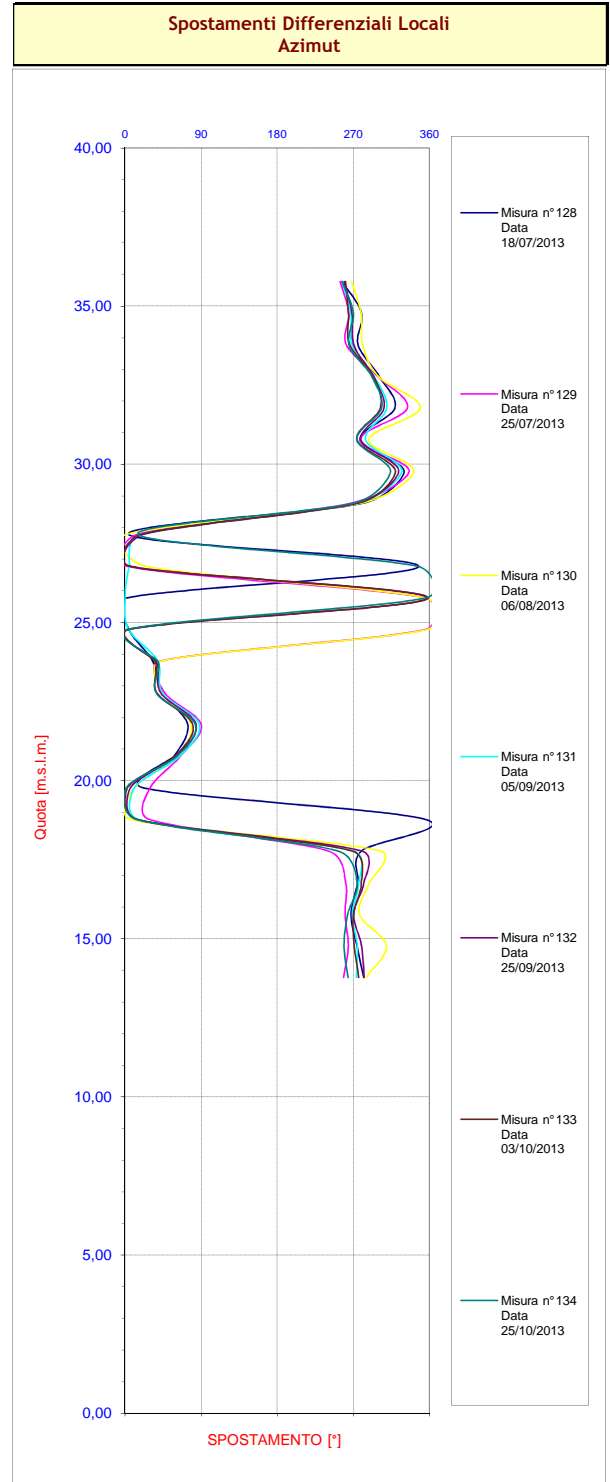
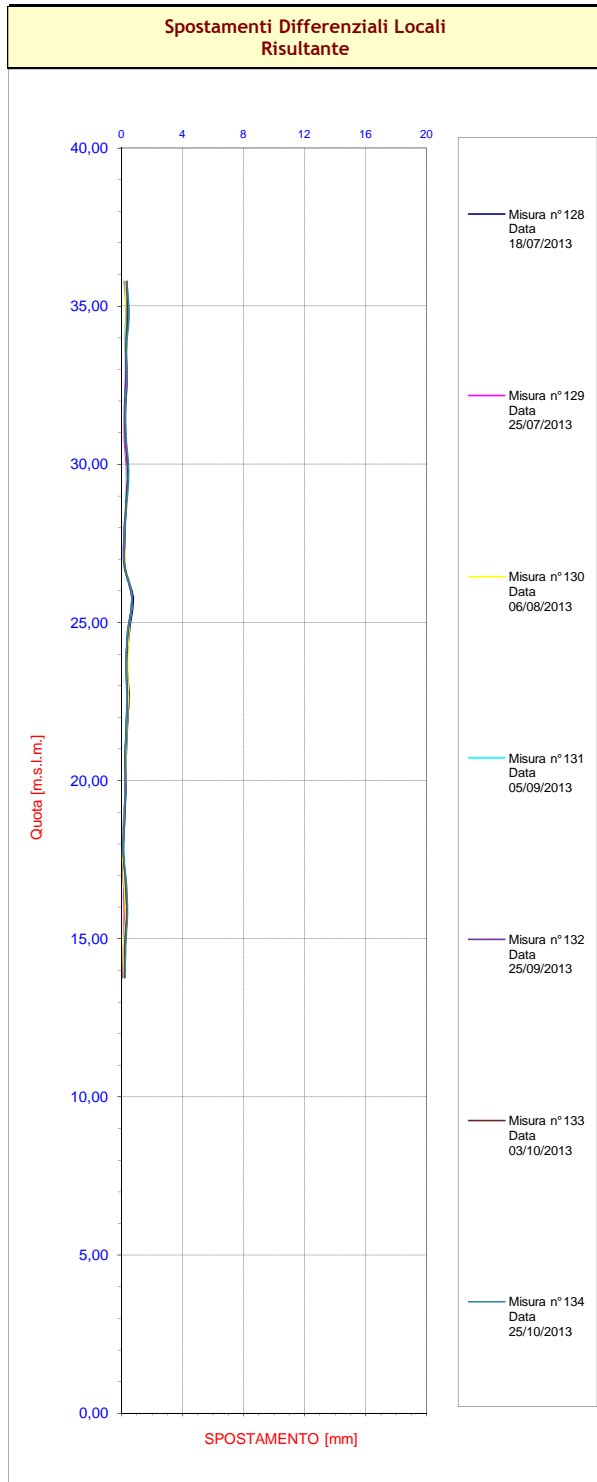


Spostamenti Differenziali Locali
SUD - (valori negativi) / NORD + (valori positivi)



Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P67**
 Azimut di riferimento **337**
 Quota guida rif. (m.s.l.m.) **36,274**
 Data lettura di zero **25/11/2009**
 Data posa in opera **18/11/2009**

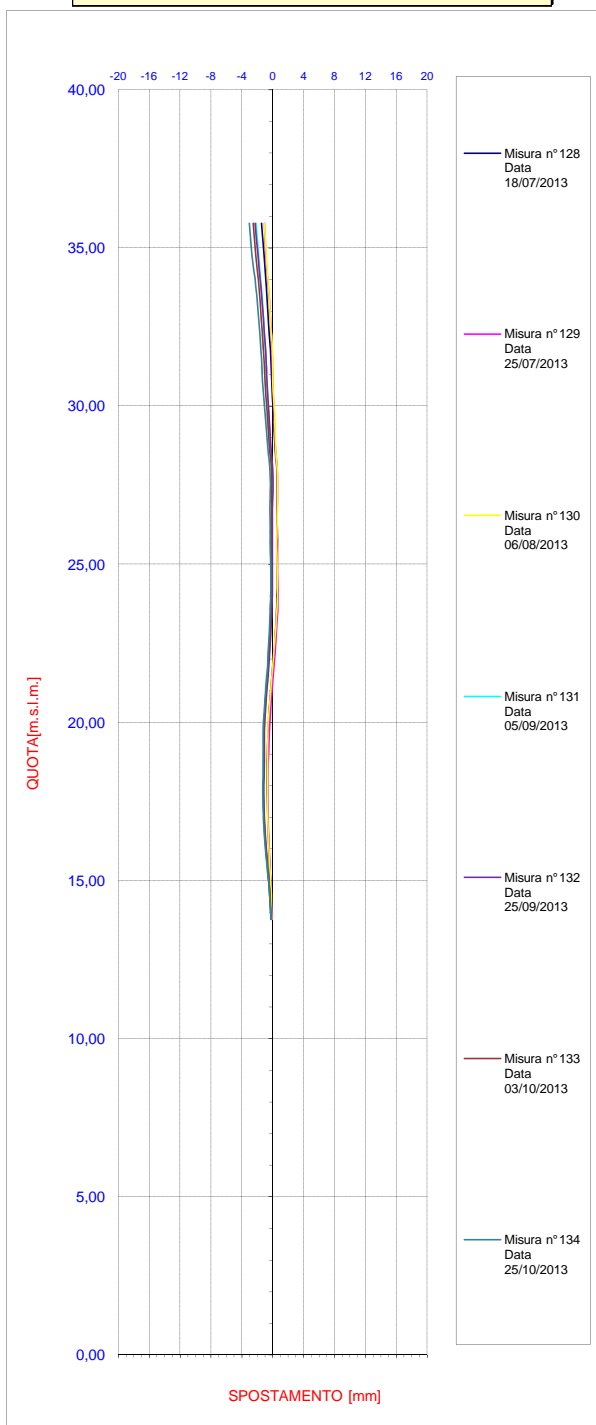
Ultima Misura **134** in data **25/10/2013 12.21**



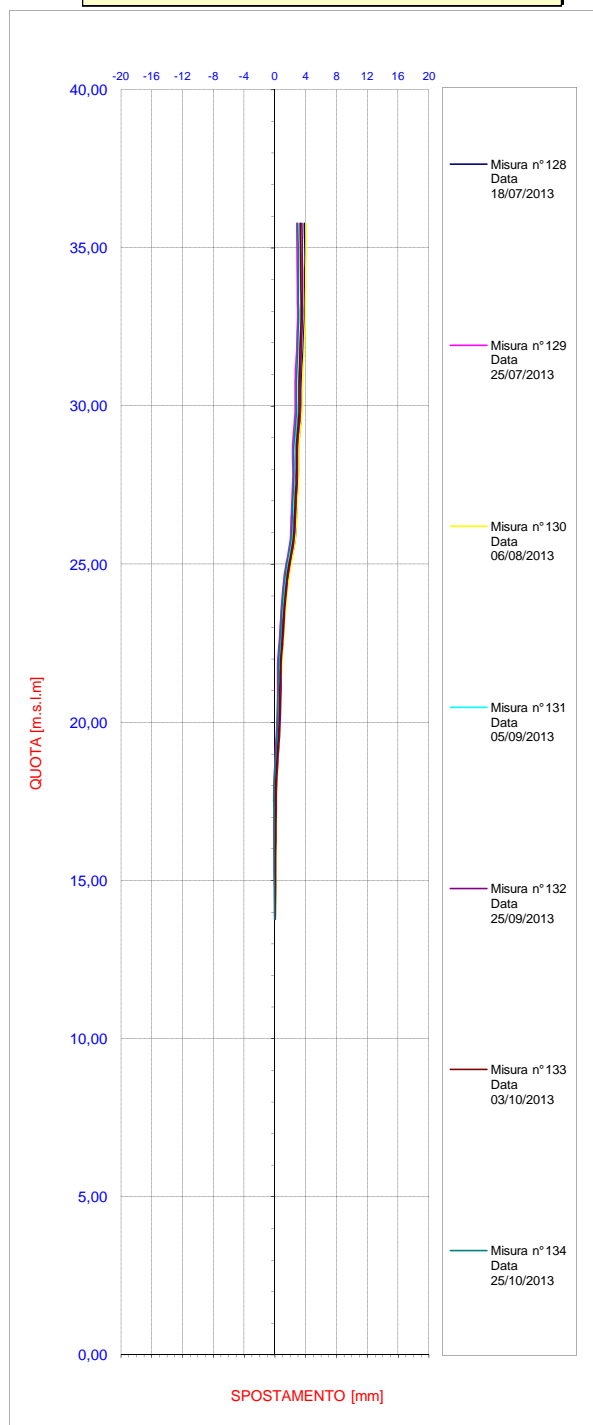
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P67**
 Azimut di riferimento **337**
 Quota guida rif. (m.s.l.m.) **36,274**
 Data lettura di zero **25/11/2009**
 Data posa in opera **18/11/2009**

Ultima Misura **134** in data **25/10/2013 12.21**

Spostamenti Differenziali Integrali
OVEST- (valori negativi) / EST + (valori positivi)



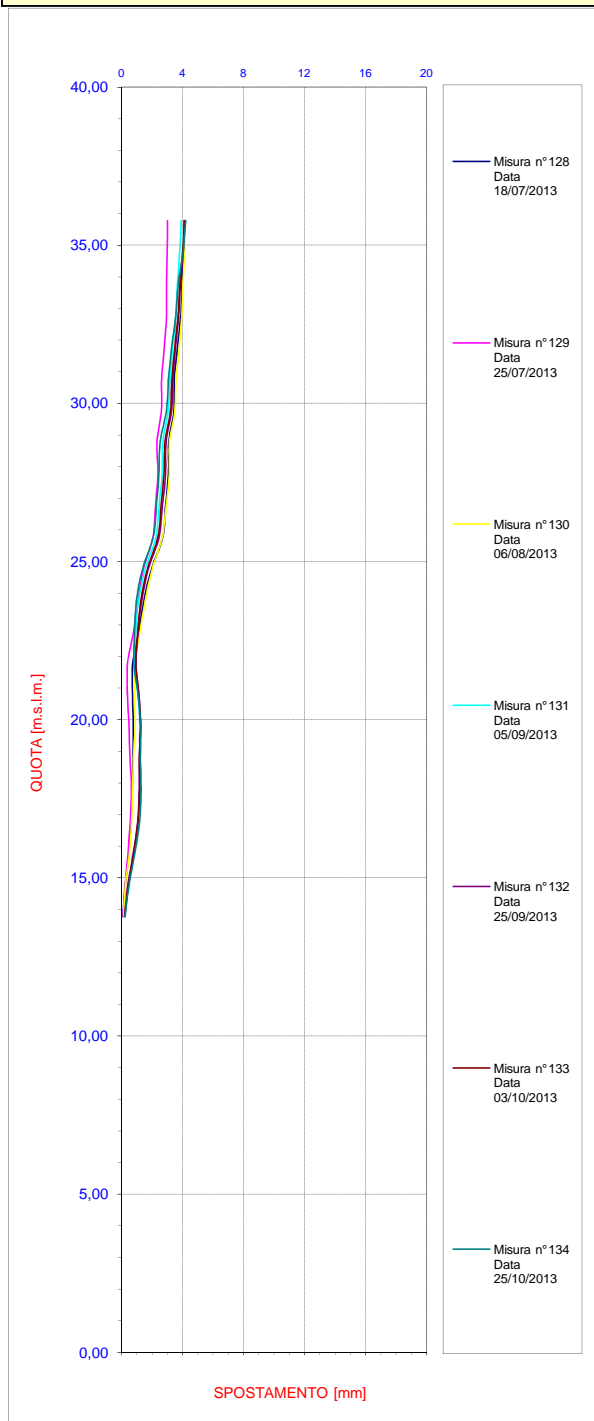
Spostamenti Differenziali Integrali
SUD - (valori negativi) / NORD + (valori positivi)



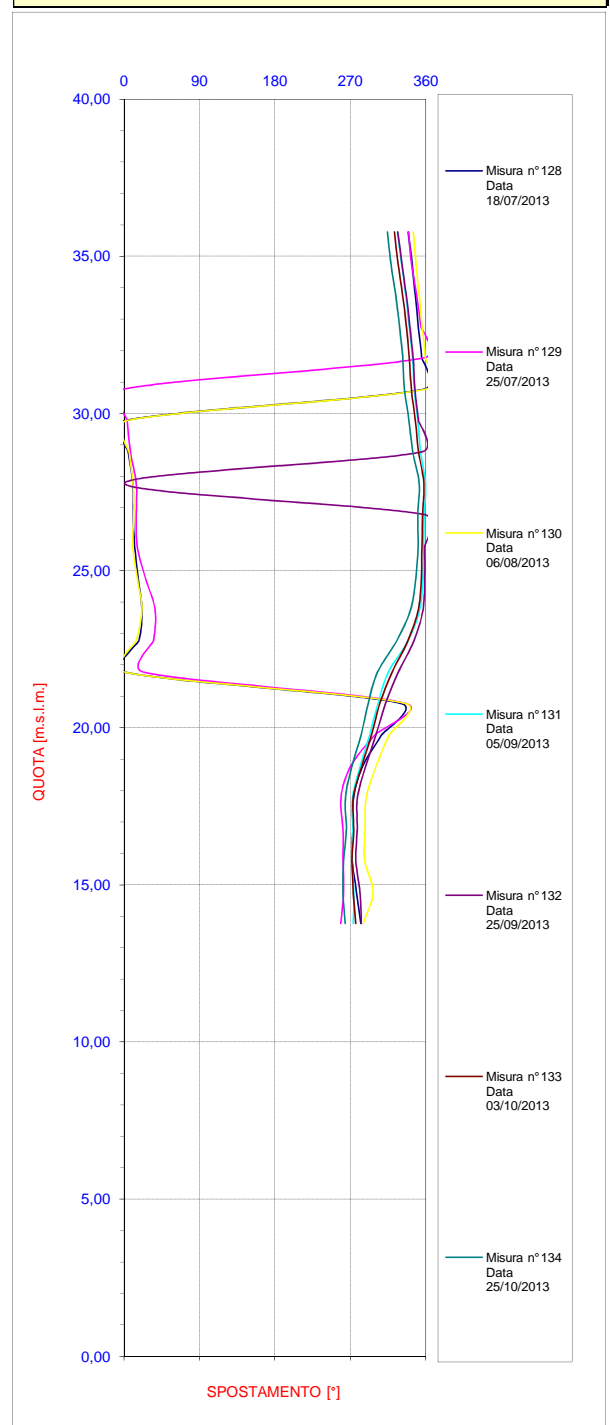
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P67**
 Azimut di riferimento **337**
 Quota guida rif. (m.s.l.m.) **36,274**
 Data lettura di zero **25/11/2009**
 Data posa in opera **18/11/2009**

Ultima Misura **134** in data **25/10/2013 12.21**

Spostamenti Differenziali Integrali Risultante



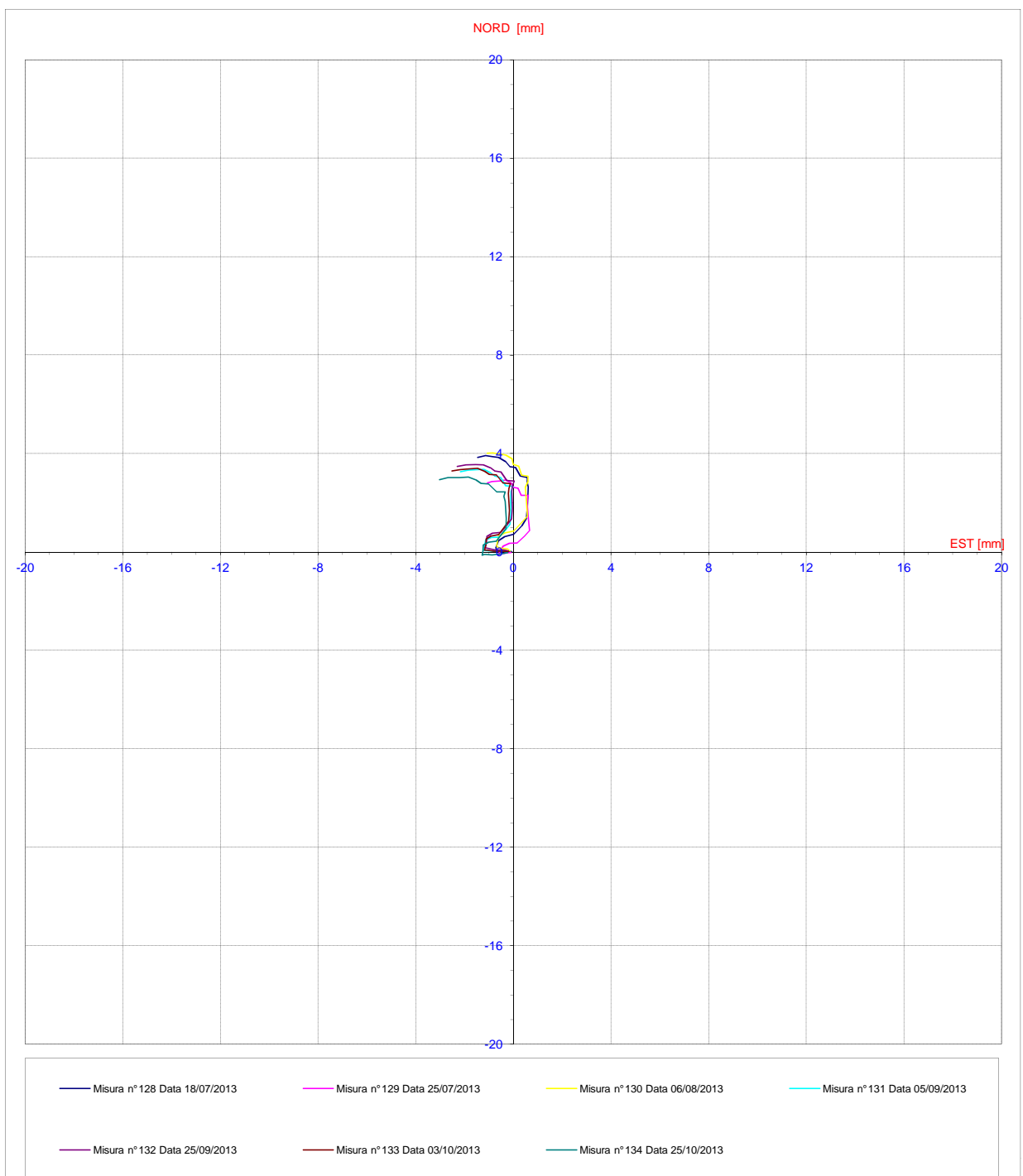
Spostamenti Differenziali Integrali Azimut

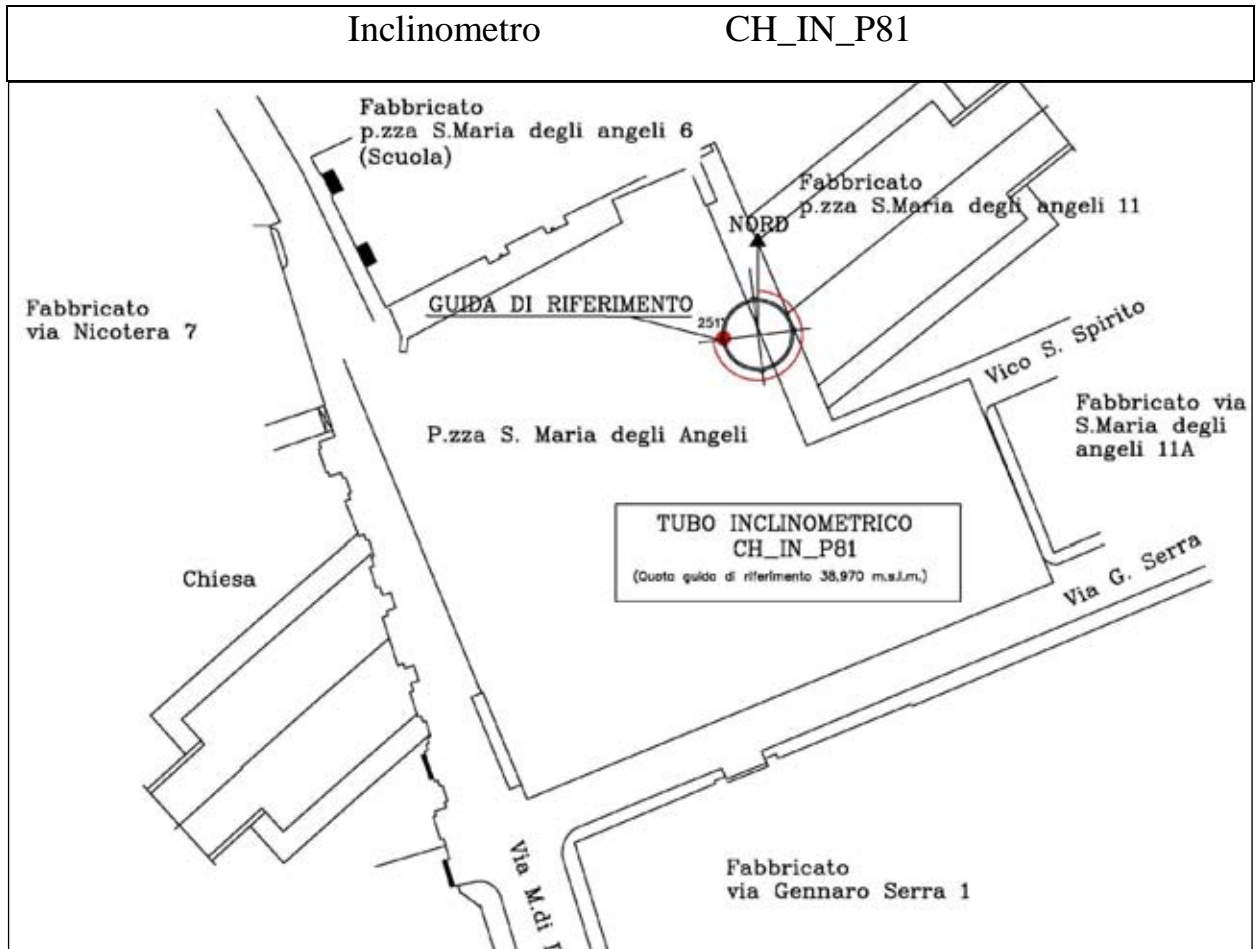


Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P67**
 Azimut di riferimento **337**
 Quota guida rif. (m.s.l.m.) **36,274**
 Data lettura di zero **25/11/2009**
 Data posa in opera **18/11/2009**

Ultima Misura **134** in data **25/10/2013 12.21**

Spostamenti Differenziali Integrali
Diagramma polare





Affidabilità strumentale A.T.I. LM6 – TreEsse	Congruenza progettuale C.T. ATI LM6 – C.T. Monitoraggio
buono <input checked="" type="checkbox"/>	congruente <input type="checkbox"/>
da rivedere <input type="checkbox"/>	non congruente, da valutare <input type="checkbox"/>
da scartare <input type="checkbox"/>	non congruente con implicazioni sulla sicurezza <input type="checkbox"/>

NOTE


**MISURE INCLINOMETRICHE
 ELABORAZIONE DA FONDO FORO
 -TABULATI-**

Ubicazione STAZIONE CHIAIA
Tipo Strumento Tubo inclinometrico
Nome tubo CH_IN_P81
Azimut di riferimento 251
Quota guida rif. (m.s.l.m.) 38,97
Data lettura di zero 21/01/2011
Data posa in opera 21/12/2010

Misura 81 **in data** 25/10/2013 12.14

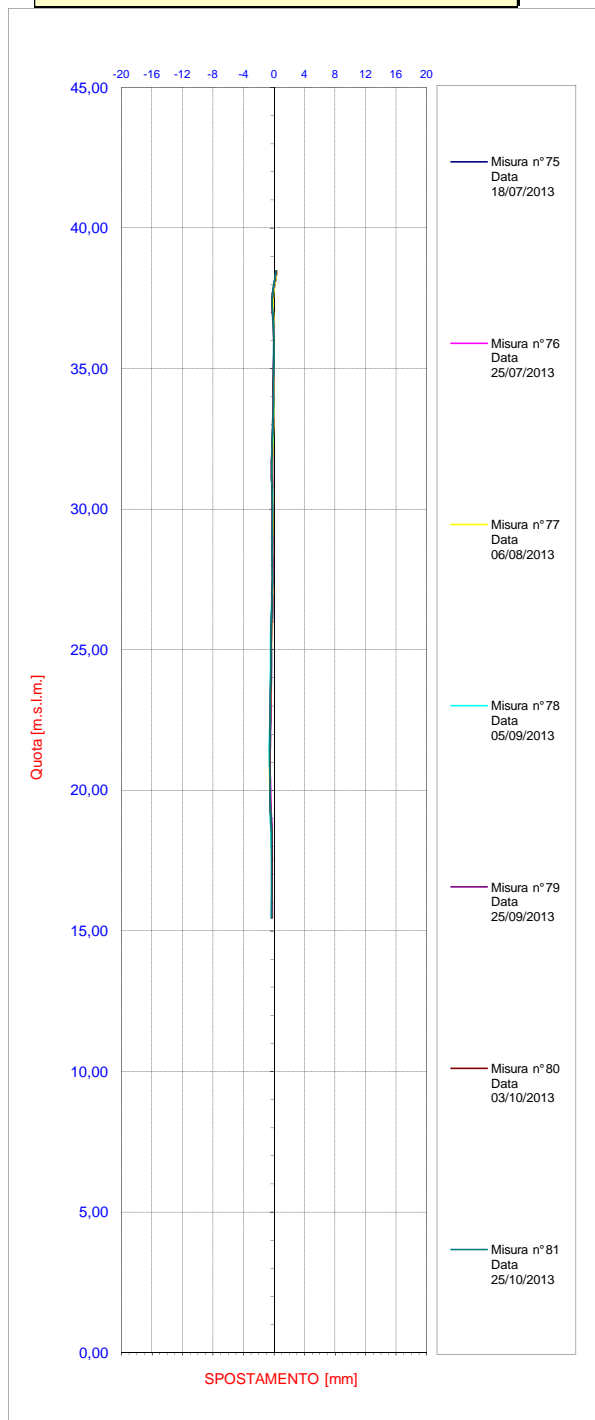
SPOSTAMENTI LOCALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
38,5	0,268	-0,364	0,452	143,665
37,5	-0,226	-0,270	0,352	219,855
36,5	-0,048	0,159	0,166	343,324
35,5	0,016	0,134	0,135	6,655
34,5	-0,067	0,248	0,257	344,903
33,5	-0,079	0,215	0,229	339,701
32,5	-0,228	0,198	0,302	310,985
31,5	-0,297	0,343	0,454	319,156
30,5	-0,224	0,052	0,230	283,085
29,5	-0,207	0,104	0,232	296,706
28,5	-0,229	0,047	0,234	281,681
27,5	-0,210	0,068	0,221	287,931
26,5	-0,276	0,054	0,282	280,977
25,5	-0,408	-0,095	0,419	256,875
24,5	-0,391	-0,140	0,415	250,284
23,5	-0,469	-0,097	0,478	258,356
22,5	-0,505	-0,239	0,559	244,716
21,5	-0,568	-0,142	0,585	256,006
20,5	-0,534	-0,247	0,588	245,167
19,5	-0,485	-0,194	0,522	248,213
18,5	-0,331	-0,309	0,452	226,957
17,5	-0,325	-0,288	0,434	228,509
16,5	-0,317	-0,248	0,402	231,944
15,5	-0,341	-0,282	0,442	230,479

SPOSTAMENTI INTEGRALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
38,5	-6,481	-1,291	6,608	258,734
37,5	-6,748	-0,927	6,812	262,178
36,5	-6,523	-0,657	6,556	264,251
35,5	-6,475	-0,816	6,526	262,820
34,5	-6,491	-0,950	6,560	261,674
33,5	-6,424	-1,198	6,534	259,437
32,5	-6,344	-1,413	6,500	257,448
31,5	-6,116	-1,611	6,325	255,247
30,5	-5,820	-1,954	6,139	251,443
29,5	-5,596	-2,006	5,945	250,282
28,5	-5,389	-2,110	5,787	248,618
27,5	-5,160	-2,157	5,593	247,311
26,5	-4,950	-2,225	5,427	245,794
25,5	-4,674	-2,279	5,199	244,006
24,5	-4,265	-2,184	4,792	242,890
23,5	-3,875	-2,044	4,380	242,192
22,5	-3,406	-1,947	3,923	240,246
21,5	-2,901	-1,708	3,366	239,505
20,5	-2,333	-1,567	2,810	236,113
19,5	-1,799	-1,320	2,231	233,734
18,5	-1,314	-1,126	1,730	229,405
17,5	-0,983	-0,817	1,278	230,271
16,5	-0,658	-0,530	0,845	231,177
15,5	-0,341	-0,282	0,442	230,479

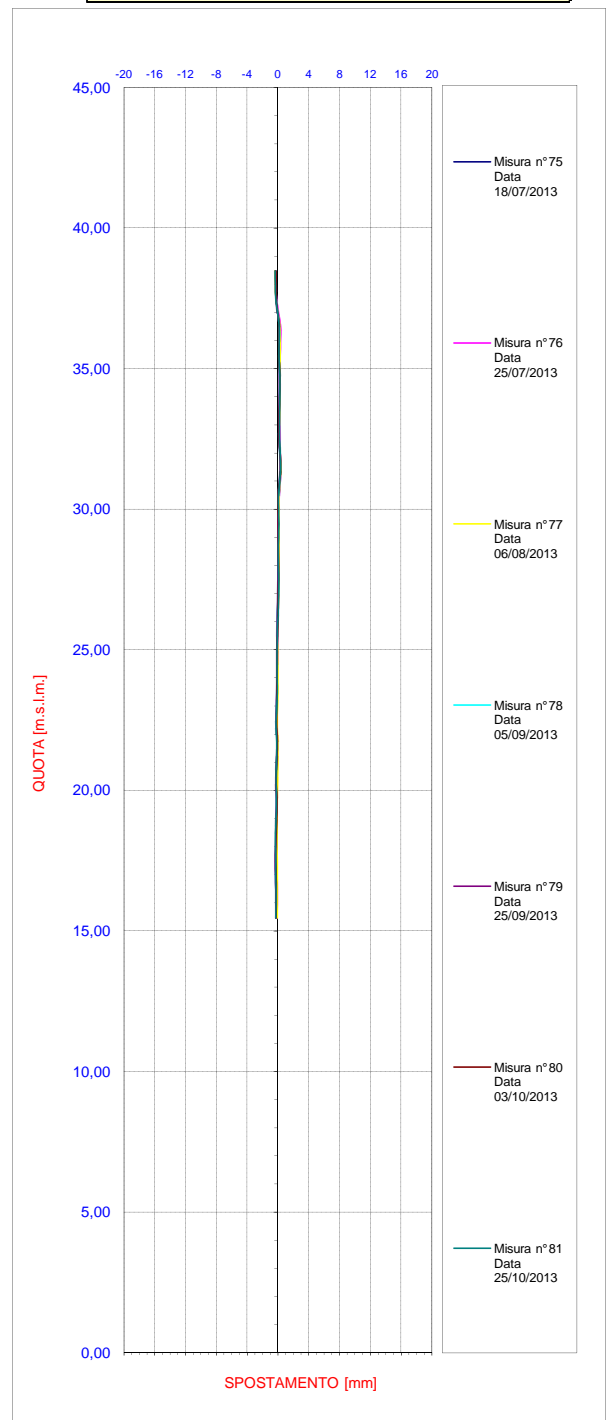
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P81**
 Azimut di riferimento **251**
 Quota guida rif. (m.s.l.m.) **38,97**
 Data lettura di zero **21/01/2011**
 Data posa in opera **21/12/2010**

Ultima Misura **81** in data **25/10/2013 12.14**

**Spostamenti Differenziali Locali
OVEST- (valori negativi) / EST + (valori positivi)**

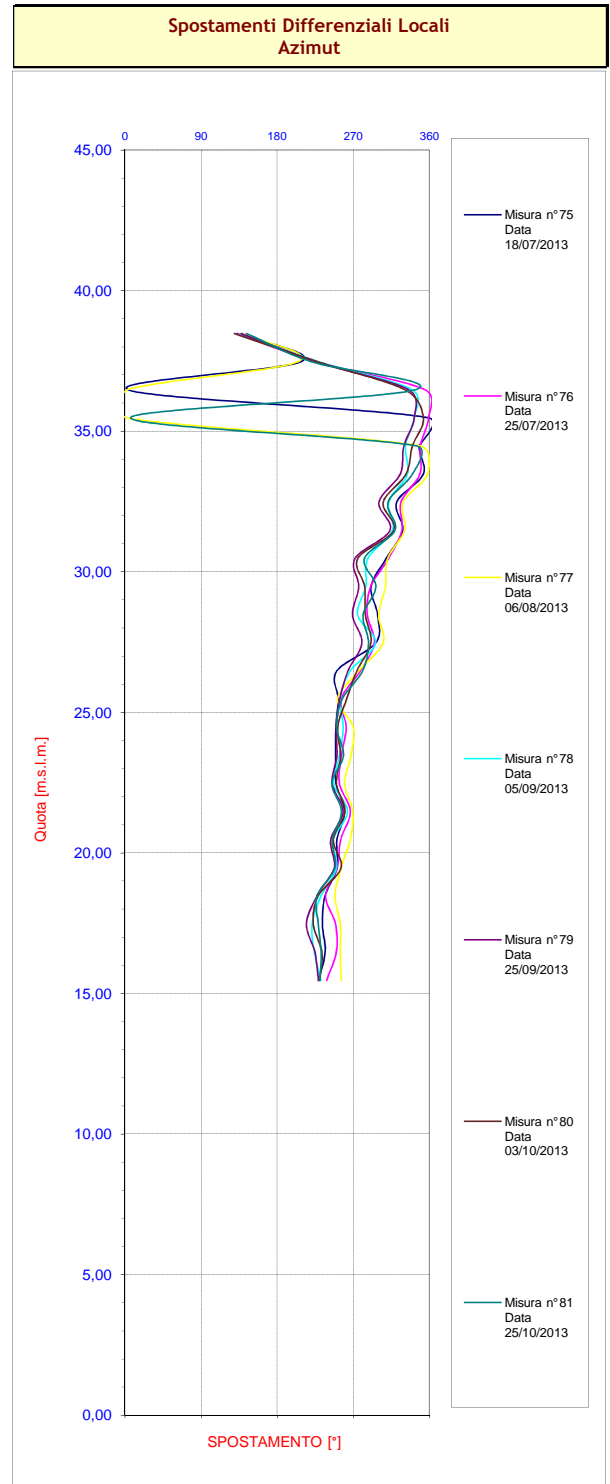
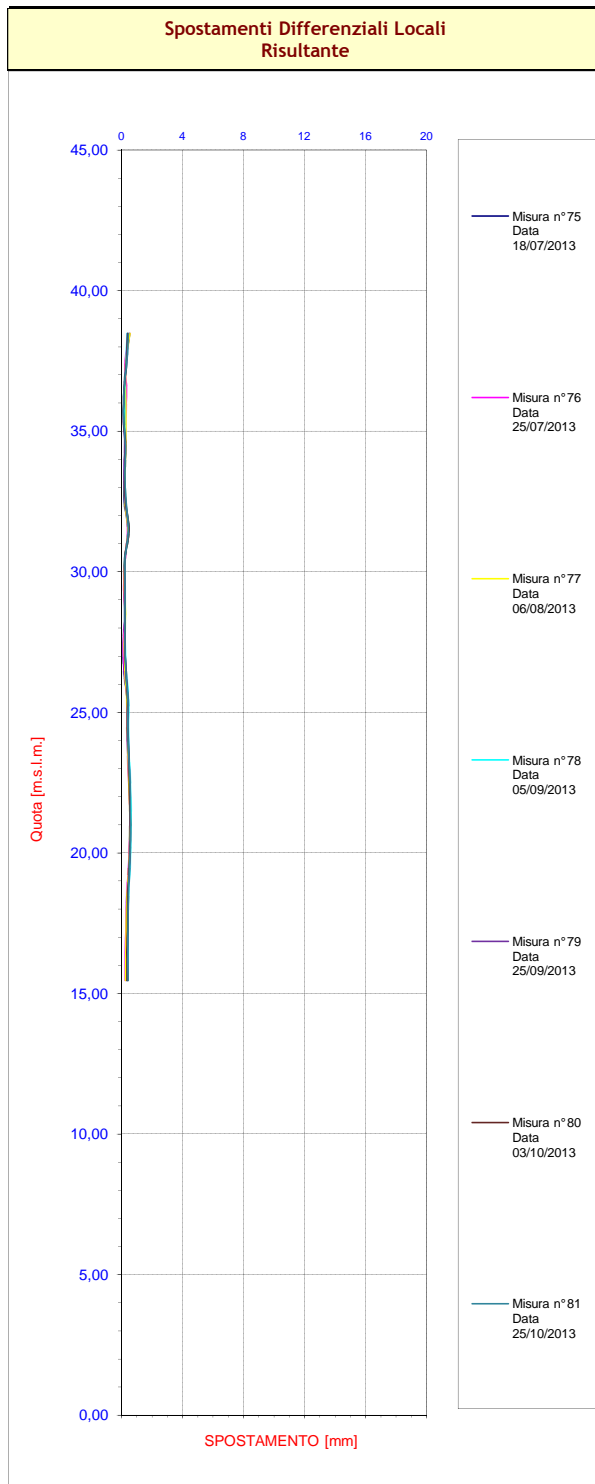


**Spostamenti Differenziali Locali
SUD - (valori negativi) / NORD + (valori positivi)**



Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P81**
 Azimut di riferimento **251**
 Quota guida rif. (m.s.l.m.) **38,97**
 Data lettura di zero **21/01/2011**
 Data posa in opera **21/12/2010**

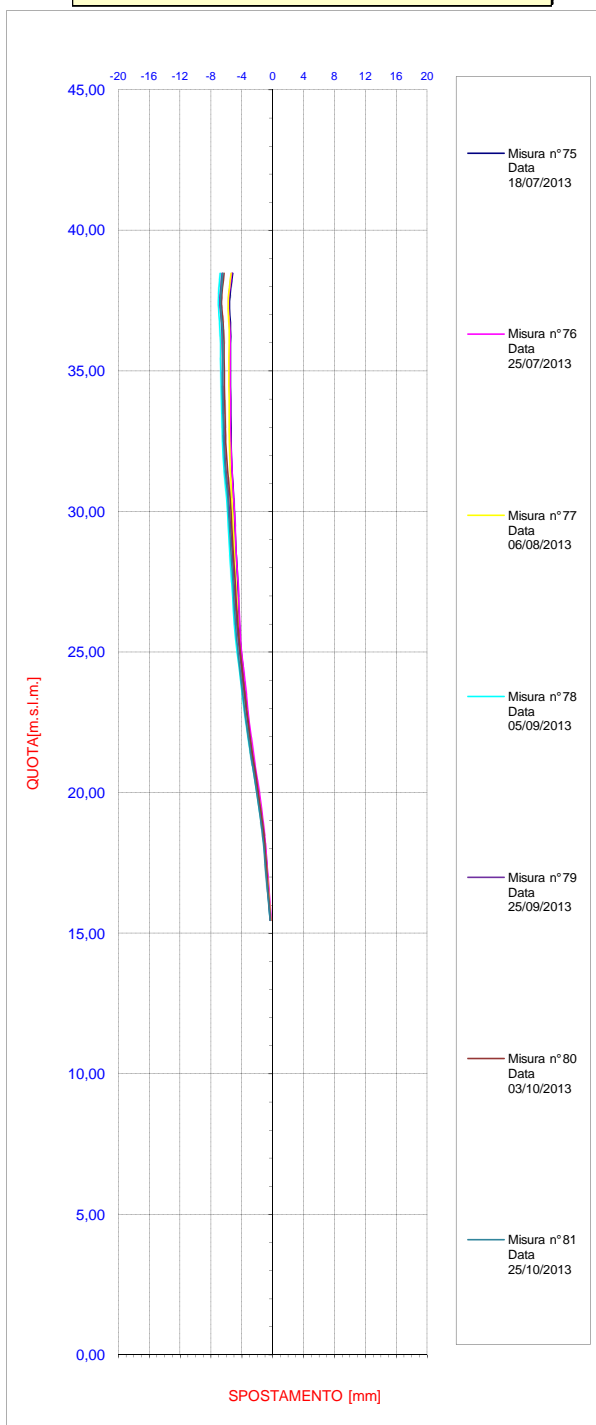
Ultima Misura **81** in data **25/10/2013 12.14**



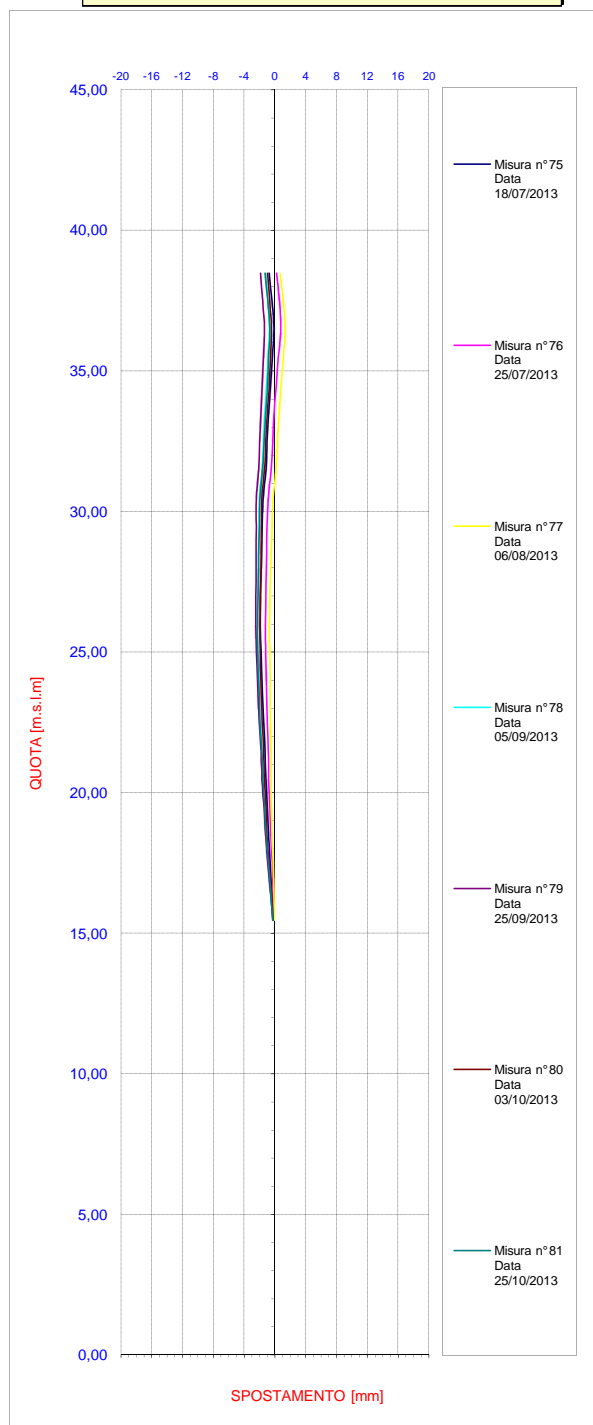
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P81**
 Azimut di riferimento **251**
 Quota guida rif. (m.s.l.m.) **38,97**
 Data lettura di zero **21/01/2011**
 Data posa in opera **21/12/2010**

Ultima Misura **81** in data **25/10/2013 12.14**

Spostamenti Differenziali Integrali
OVEST- (valori negativi) / EST + (valori positivi)



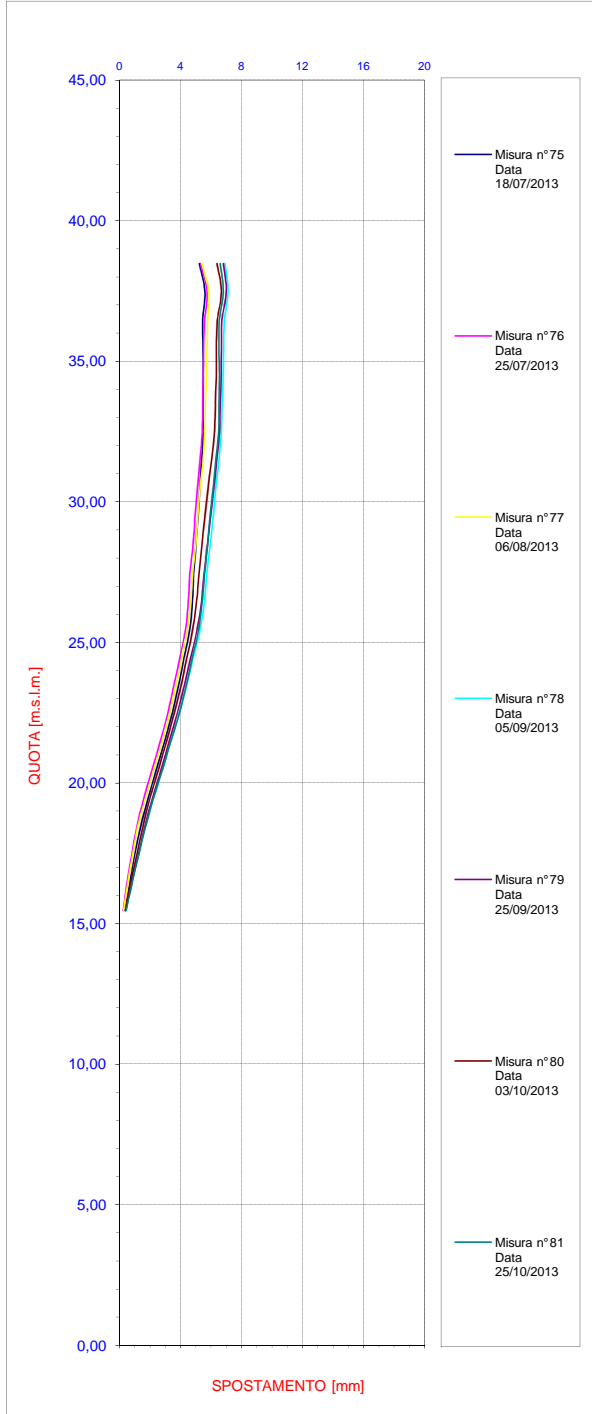
Spostamenti Differenziali Integrali
SUD - (valori negativi) / NORD + (valori positivi)



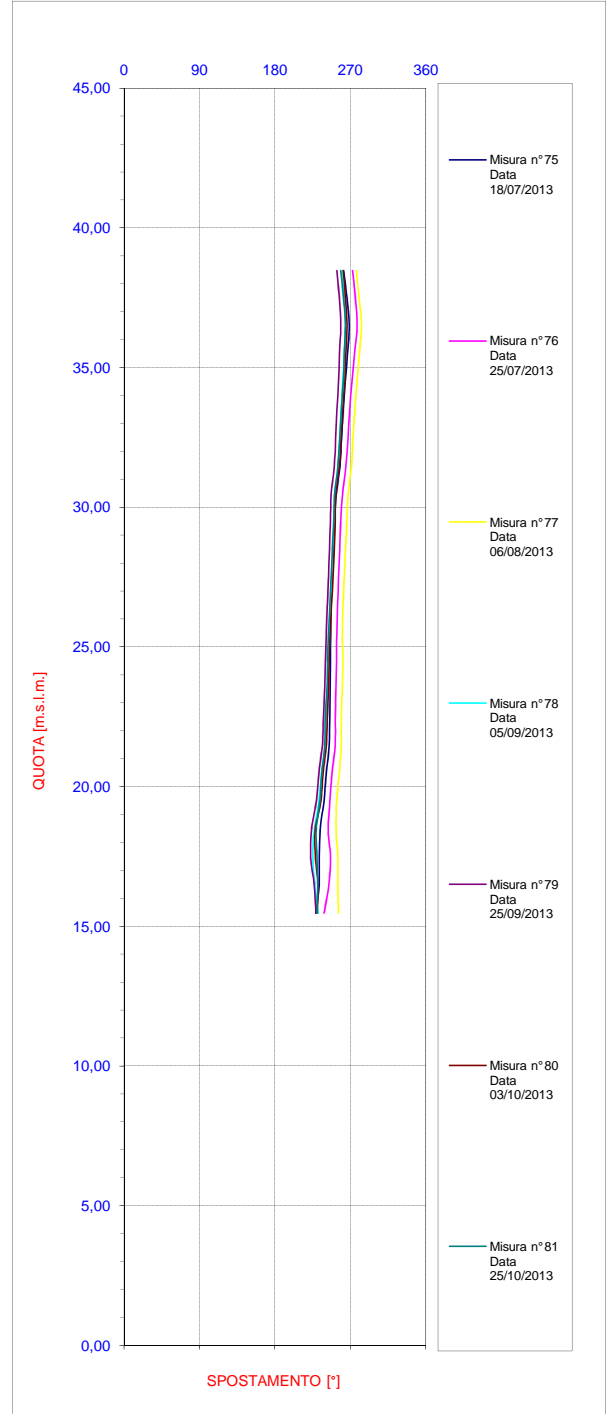
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P81**
 Azimut di riferimento **251**
 Quota guida rif. (m.s.l.m.) **38,97**
 Data lettura di zero **21/01/2011**
 Data posa in opera **21/12/2010**

Ultima Misura **81** in data **25/10/2013 12.14**

Spostamenti Differenziali Integrali Risultante



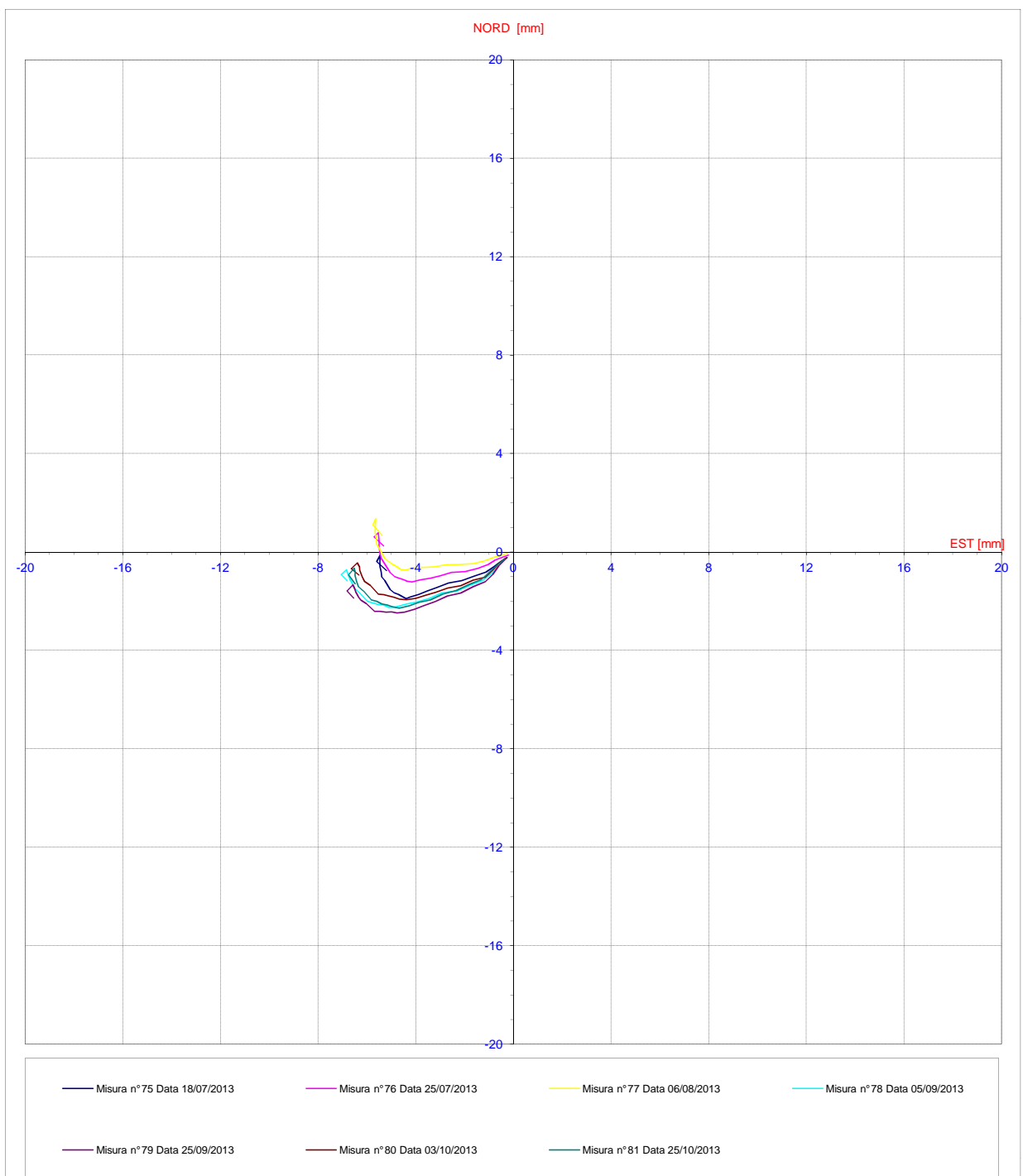
Spostamenti Differenziali Integrali Azimut




Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P81**
 Azimut di riferimento **251**
 Quota guida rif. (m.s.l.m.) **38,97**
 Data lettura di zero **21/01/2011**
 Data posa in opera **21/12/2010**

Ultima Misura **81** in data **25/10/2013 12.14**

Spostamenti Differenziali Integrali
Diagramma polare



 <p>Ansaldo STS A Finmeccanica Company</p>	<p>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</p> <p><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO</i> <i>REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C I 26 Data: 25/10/13 Metropolitana di Napoli A.T.I. LM6 TreEsse Engineering S.r.l.</p>
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8. MISURE GEOTECNICHE – BARRETTE ESTENSIMETRICHE A CORDA VIBRANTE

Gli estensimetri a corda vibrante sono costituiti da un filo d'acciaio, teso tra due supporti ancorati alla struttura da monitorare e messo in vibrazione da un elettromagnete.

Le deformazioni della struttura causano un movimento dei due supporti, facendo variare il tensionamento del filo. Questa variazione di tesatura provoca un mutamento della frequenza di vibrazione della corda, che risulta proporzionale alle deformazioni agenti.

Tutte le barrette estensimetriche installate sono del tipo a corda vibrante per metallo, rese solidali alla struttura mediante saldatura.


 <p>Ansaldo STS A Finmeccanica Company</p>	<p>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</p> <p><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C I 26 Data: 25/10/13 Metropolitana di Napoli A.T.I. LM6 TreEsse Engineering S.r.l.</p>
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Tabelle Riepilogative Per Le Barrette Estensimetriche Installate In Cantiere

Tabella Pannello N°13

NOME	TIPOLOGIA STRUMENTAZIONE	DATA INSTALL.	DISPONIBILITA' LETTURA			NOTE
			DATA LETT. DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
CH_P13_S1	BARRETTE ESTENSIMETRICHE A C.V.	07/01/09	03/09/09			
CH_P13_S2	BARRETTE ESTENSIMETRICHE A C.V.	07/01/09				Non funzionante
CH_P13_S3	BARRETTE ESTENSIMETRICHE A C.V.	07/01/09	03/09/09			
CH_P13_S4	BARRETTE ESTENSIMETRICHE A C.V.	07/01/09	03/09/09			
CH_P13_S5	BARRETTE ESTENSIMETRICHE A C.V.	07/01/09	03/09/09			
CH_P13_S6	BARRETTE ESTENSIMETRICHE A C.V.	07/01/09	03/09/09			

Tabella Pannello N°50

NOME	TIPOLOGIA STRUMENTAZIONE	DATA INSTALL.	DISPONIBILITA' LETTURA			NOTE
			DATA LETT. DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
CH_P50_S1	BARRETTE ESTENSIMETRICHE A C.V.	20/01/09	03/09/09			
CH_P50_S2	BARRETTE ESTENSIMETRICHE A C.V.	20/01/09	03/09/09			
CH_P50_S3	BARRETTE ESTENSIMETRICHE A C.V.	20/01/09	03/09/09			
CH_P50_S4	BARRETTE ESTENSIMETRICHE A C.V.	20/01/09	03/09/09			
CH_P50_S5	BARRETTE ESTENSIMETRICHE A C.V.	20/01/09	03/09/09			
CH_P50_S6	BARRETTE ESTENSIMETRICHE A C.V.	20/01/09	03/09/09			


 <p>Ansaldo STS A Finmeccanica Company</p>	<p>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</p> <p>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO REPORT DELLE MISURE - STAZIONE CHIAIA</p>	<p>LM6 7FX 2C I 26 Data: 25/10/13 Metropolitana di Napoli A.T.I. LM6 TreEsse Engineering S.r.l.</p>
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Tabella Pannello N°67

NOME	TIPOLOGIA STRUMENTAZIONE	DATA INSTALL.	DISPONIBILITA' LETTURA			NOTE
			DATA LETT. DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
CH_P67_S1	BARRETTE ESTENSIMETRICHE A C.V.	04/03/09	03/09/09		28/09/11	Lo strumento restituisce valore discontinuo
CH_P67_S2	BARRETTE ESTENSIMETRICHE A C.V.	04/03/09	03/09/09			
CH_P67_S3	BARRETTE ESTENSIMETRICHE A C.V.	04/03/09	03/09/09			
CH_P67_S4	BARRETTE ESTENSIMETRICHE A C.V.	04/03/09	03/09/09			
CH_P67_S5	BARRETTE ESTENSIMETRICHE A C.V.	04/03/09	03/09/09			
CH_P67_S6	BARRETTE ESTENSIMETRICHE A C.V.	04/03/09	03/09/09			

Tabella Pannello N°81

NOME	TIPOLOGIA STRUMENTAZIONE	DATA INSTALL.	DISPONIBILITA' LETTURA			NOTE
			DATA LETT. DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
CH_P81_S1	BARRETTE ESTENSIMETRICHE A C.V.	31/03/09	03/09/09		20/04/11	(*)
CH_P81_S2	BARRETTE ESTENSIMETRICHE A C.V.	31/03/09	03/09/09		20/04/11	(*)
CH_P81_S3	BARRETTE ESTENSIMETRICHE A C.V.	31/03/09	03/09/09		20/04/11	(*)
CH_P81_S4	BARRETTE ESTENSIMETRICHE A C.V.	31/03/09	03/09/09		25/03/10	(*)
CH_P81_S5	BARRETTE ESTENSIMETRICHE A C.V.	31/03/09	03/09/09		20/04/11	(*)
CH_P81_S6	BARRETTE ESTENSIMETRICHE A C.V.	31/03/09	03/09/09		20/04/11	(*)
CH_P81_S7	BARRETTE ESTENSIMETRICHE A C.V.	31/03/09				(*)
CH_P81_S8	BARRETTE ESTENSIMETRICHE A C.V.	31/03/09	03/09/09		20/04/11	(*)

(*) Le barrette estensimetriche non restituiscono un segnale coerente pertanto non verranno più inserite nel programma di monitoraggio.


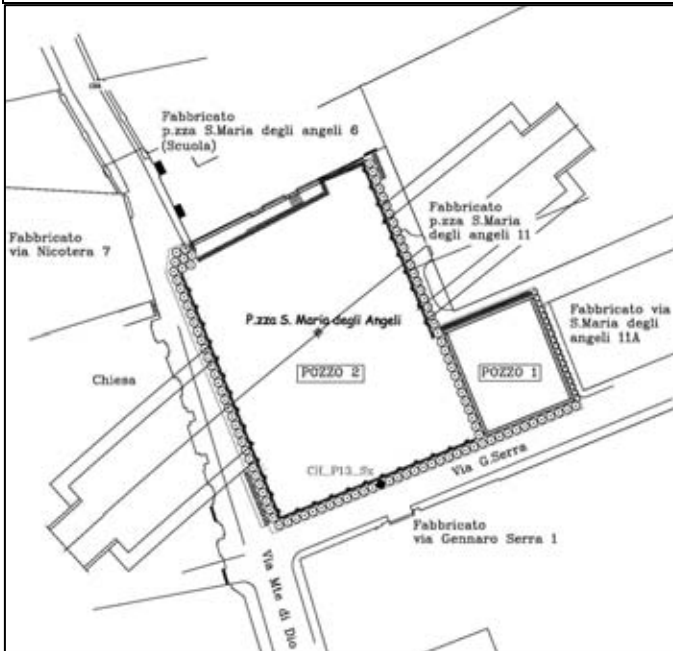
 <p>Ansaldo STS A Finmeccanica Company</p>	<p>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</p> <p><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO</i></p> <p><i>REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C 126 Data: 25/10/13 Metropolitana di Napoli A.T.I. LM6 TreEsse Engineering S.r.l.</p>
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Tabella Puntoni PU1 e PU2

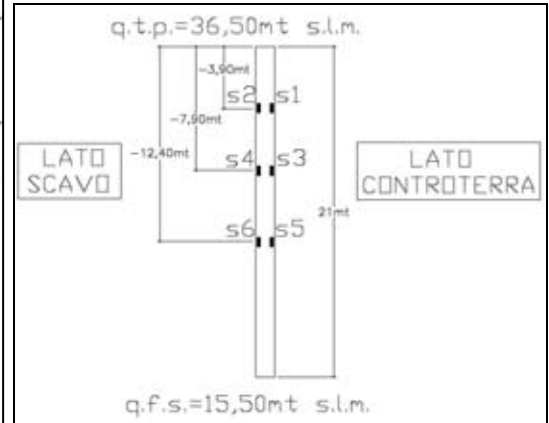
NOME	TIPOLOGIA STRUMENTAZIONE	DATA INSTALL.	DISPONIBILITA' LETTURA			NOTE
			DATA LETT. DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
CH_PU1_S1	BARRETTE ESTENSIMETRICHE A C.V.	12/09/11	14/09/11			
CH_PU1_S2	BARRETTE ESTENSIMETRICHE A C.V.	12/09/11	14/09/11			
CH_PU1_S3	BARRETTE ESTENSIMETRICHE A C.V.	12/09/11	14/09/11			
CH_PU1_S4	BARRETTE ESTENSIMETRICHE A C.V.	12/09/11	14/09/11			
CH_PU2_S5	BARRETTE ESTENSIMETRICHE A C.V.	12/09/11	14/09/11			
CH_PU2_S6	BARRETTE ESTENSIMETRICHE A C.V.	12/09/11	14/09/11		15/10/12	Danneggiata. nessun valore
CH_PU2_S6_1	BARRETTE ESTENSIMETRICHE A C.V.	19/11/12	19/11/12			Sostituisce la CH_PU2_S6
CH_PU2_S7	BARRETTE ESTENSIMETRICHE A C.V.	12/09/11	14/09/11			
CH_PU2_S8	BARRETTE ESTENSIMETRICHE A C.V.	12/09/11	14/09/11			

Pannello strumentato

CH_P13



SCHEMA INSTALLAZIONE
STRUMENT. GEOTECNICA
(BECV PER METALLO)
PALO N°13



Le barrette con numero progressivi dispari (s1,s3,s5) sono installate lato contro terra, mentre quelle con numero pari (s2,s4,s6) sono poste lato scavo; la direzione di installazione è parallela all'asse di scavo.

Affidabilità strumentale

A.T.I. LM6 – TreEsse

buono
da rivedere
da scartare

X

Congruenza progettuale

C.T. ATI LM6 – C.T.
Monitoraggio

congruente
non congruente, da valutare
non congruente con implicazioni
sulla sicurezza

NOTE

Le elaborazioni di seguito riportate includono lo storico delle misure.

La barretta estensimetrica a c.v. CH_P13_S2 non è funzionante.



TABULATI

Ubicazione STAZIONE CHIAIA

Opera \ \ P13

Strumento Barretta Est. per Metallo

Data posa in opera 03/09/2009

Data lettura di zero 03/09/2009

Ultima Misura 156 in data 25/10/2013

Letture n°	DATA	CH_P13_S1		CH_P13_S3		CH_P13_S4		CH_P13_S5		CH_P13_S6	
		Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]
104	31/7/12 10.00	-70,8	16,9	-150,0	15,8	-128,5	16,0	-148,8	14,2	-27,7	18,2
105	8/8/12 10.30	-60,2	17,1	-156,9	15,9	-130,1	16,2	-150,4	14,4	-29,3	18,4
106	29/8/12 10.00	-69,5	17,0	-156,5	15,6	-128,5	16,0	-162,2	14,1	-35,8	18,2
107	5/9/12 10.30	-72,3	20,1	-116,6	18,2	-52,9	19,2	-147,6	17,3	3,6	21,1
108	12/9/12 10.00	-67,1	20,2	-121,9	18,1	-31,7	20,6	-144,7	17,2	14,2	22,3
109	20/9/12 10.00	-57,7	20,3	-115,0	18,0	-33,4	21,8	-139,4	17,3	25,6	22,9
110	26/9/12 11.00	-52,4	20,4	-116,6	18,2	-19,1	22,3	-134,1	17,4	44,3	24,1
111	3/10/12 11.00	-48,0	20,1	-111,0	18,0	-1,2	23,1	-125,6	17,1	65,8	25,2
112	8/10/12 10.00	-46,8	19,2	-111,8	17,6	17,9	24,0	-121,2	16,8	62,6	25,6
113	15/10/12 11.00	-56,1	19,1	-110,2	17,4	16,2	24,2	-118,3	16,7	67,9	25,7
114	24/10/12 11.00	-63,0	19,2	-121,1	17,5	19,5	24,8	-116,7	16,5	58,5	25,6
115	31/10/12 11.30	-52,9	18,7	-121,9	17,1	20,3	24,2	-132,5	16,2	57,7	25,2
116	7/11/12 11.00	-48,4	18,4	-116,7	17,2	13,8	24,0	-130,9	16,0	55,7	24,7
117	19/11/12 15.00	-54,9	18,2	-127,2	17,0	19,1	24,1	-125,6	16,1	58,5	24,6
118	26/11/12 11.00	-49,2	18,0	-124,0	16,6	27,6	23,8	-122,8	16,0	64,6	24,1
119	3/12/12 10.00	-41,1	18,0	-123,6	16,3	32,9	23,9	-126,1	15,4	67,4	24,0
120	13/12/12 10.30	-38,2	17,9	-122,0	16,1	35,7	23,8	-123,2	15,3	71,9	23,7
121	19/12/12 10.00	-31,7	18,1	-116,7	16,2	41,0	23,9	-117,9	15,4	74,7	23,6
122	10/1/13 10.00	-25,7	17,6	-119,5	16,3	34,9	22,4	-116,7	15,5	67,4	22,0
123	16/1/13 10.45	-32,2	17,4	-112,6	16,2	36,5	22,2	-115,1	15,3	60,9	21,8
124	31/1/13 9.30	-27,7	17,1	-106,9	16,0	38,1	22,0	-114,7	15,0	66,6	21,6
125	12/2/13 11.30	-23,2	16,8	-100,0	15,9	23,9	21,5	-111,4	14,6	72,7	21,1
126	28/2/13 11.00	-15,5	16,1	-92,3	15,2	34,1	21,0	-104,1	14,2	90,9	20,6
127	7/3/13 11.00	-7,8	15,4	-86,6	15,0	25,1	20,6	-102,5	14,0	92,6	20,4
128	13/3/13 11.30	-6,2	15,2	-80,9	14,8	26,7	20,4	-96,8	13,8	99,9	20,0
129	20/3/13 11.00	-0,5	15,0	-79,3	14,6	23,1	20,1	-95,2	13,6	99,1	19,6
130	27/3/13 12.00	-1,3	14,6	-77,7	14,4	30,0	20,0	-93,6	13,4	104,7	19,4
131	3/4/13 11.30	6,0	14,2	-73,2	14,1	35,3	19,1	-82,2	13,0	114,1	19,5
132	10/4/13 11.50	-0,9	14,3	-70,4	14,0	30,0	19,0	-93,2	13,1	118,5	19,2
133	17/4/13 11.00	-3,8	14,4	-65,1	14,1	34,4	18,7	-82,2	13,0	108,0	19,0
134	2/5/13 10.00	-13,9	14,9	-91,5	14,6	20,6	18,9	-92,0	13,2	99,1	19,6
135	7/5/13 11.30	-15,5	15,1	-106,5	14,7	16,6	18,9	-90,3	13,0	88,5	19,4
136	16/5/13 11.00	-28,1	15,4	-124,4	14,9	14,9	19,1	-93,2	13,1	90,9	19,6
137	21/5/13 11.30	-29,7	15,6	-126,0	15,1	16,2	19,2	-83,8	13,2	84,4	19,4
138	28/5/13 10.40	-35,4	15,8	-126,4	15,4	22,7	19,4	-94,4	13,0	81,6	19,5
139	4/6/13 11.00	-46,0	15,6	-132,9	15,2	16,2	19,2	-89,1	13,1	68,2	19,4
140	13/6/13 10.00	-44,4	15,4	-135,8	15,3	25,5	19,3	-86,3	13,0	64,1	19,4
141	19/6/13 11.00	-46,0	15,6	-143,1	15,7	21,0	19,6	-79,8	13,2	54,4	19,6
142	25/6/13 10.30	-39,1	15,5	-150,0	15,8	30,8	19,4	-94,4	13,0	65,7	19,2
143	4/7/13 12.00	-36,2	15,4	-148,8	15,9	20,2	19,2	-87,9	13,2	58,8	19,3
144	11/7/13 11.00	-42,7	15,2	-161,4	15,2	26,7	19,4	-81,4	13,4	53,6	19,2
145	18/7/13 10.00	-44,4	15,4	-166,7	15,1	28,4	19,2	-79,8	13,2	47,1	19,0
146	25/7/13 10.30	-38,7	15,2	-157,3	15,2	34,9	19,4	-89,5	13,4	52,3	19,1
147	1/8/13 12.30	-40,3	15,4	-167,9	15,0	32,8	17,9	-93,6	13,4	63,3	18,0
148	6/8/13 11.30	-46,0	15,6	-163,8	15,0	22,6	17,4	-100,5	13,5	60,0	17,4
149	29/8/13 11.00	-35,4	15,8	-169,5	15,2	16,1	17,2	-109,0	13,8	54,3	17,6
150	5/9/13 11.00	-38,3	15,9	-166,7	15,1	20,6	16,9	-119,2	14,3	45,0	17,5
151	12/9/13 10.00	-39,9	16,1	-169,5	15,2	14,9	17,1	-126,5	14,7	38,1	17,6
152	18/9/13 10.30	-35,4	15,8	-180,1	15,0	16,9	16,6	-117,1	14,8	43,8	17,4
153	25/9/13 10.30	-40,7	15,7	-188,2	15,0	-6,6	16,0	-102,9	14,3	20,2	16,8
154	9/10/13 10.00	-33,8	15,6	-191,0	15,1	-12,3	16,2	-109,4	14,1	25,9	16,6
155	14/10/13 10.00	-40,3	15,4	-197,9	15,2	-7,0	16,3	-112,3	14,2	31,6	16,4
156	25/10/13 11.00	-38,7	15,2	-200,4	15,0	-13,9	16,4	-105,8	14,4	17,0	16,2



Ubicazione STAZIONE CHIAIA
Opera \ \ P13
Strumento Barretta Est. per Metallo
Data posa in opera 03/09/2009
Data lettura di zero 03/09/2009

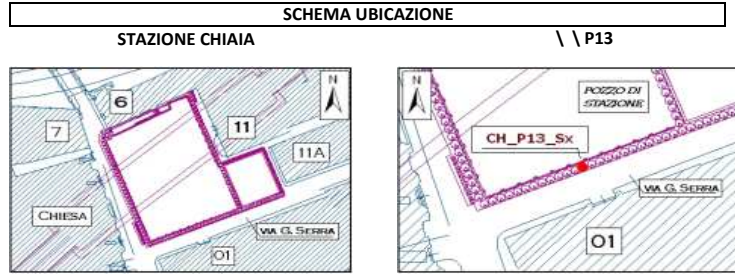


GRAFICO MICROSTRAIN

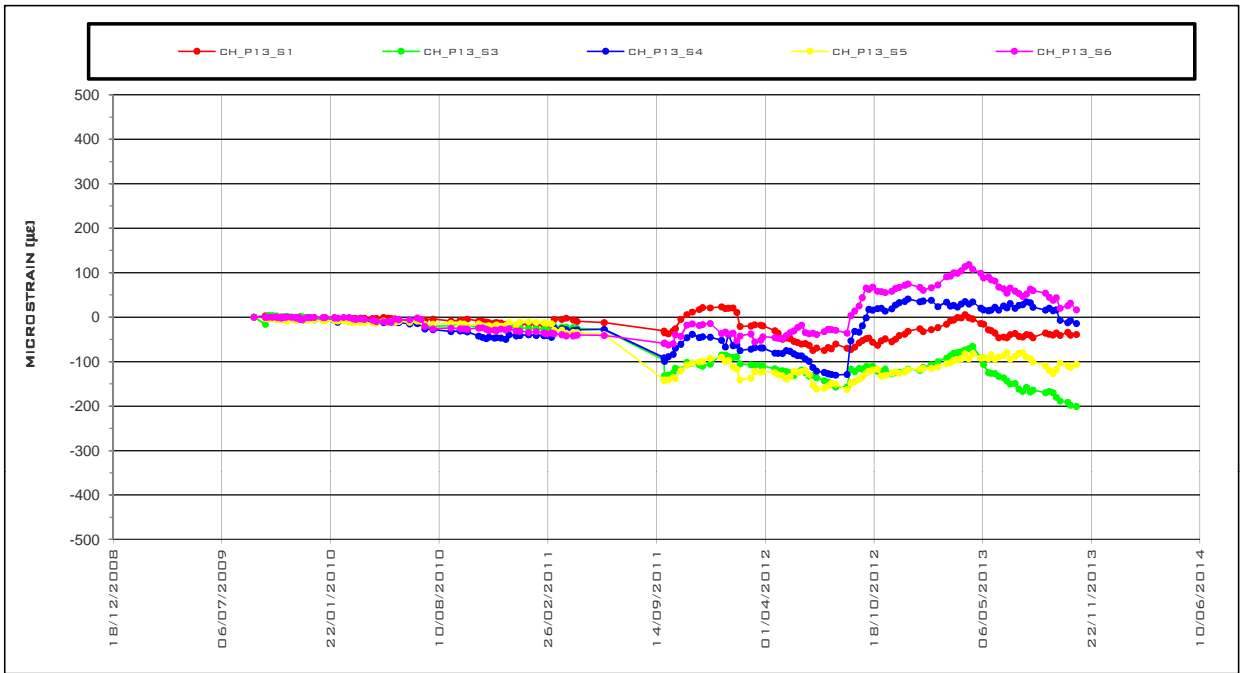
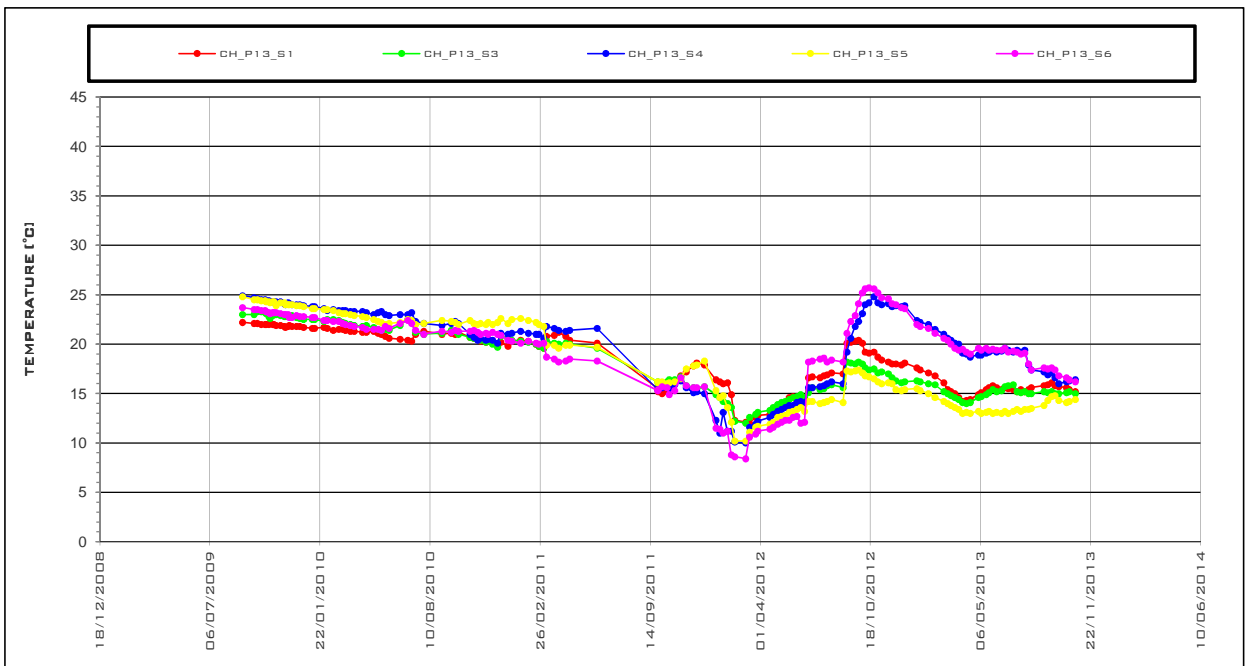
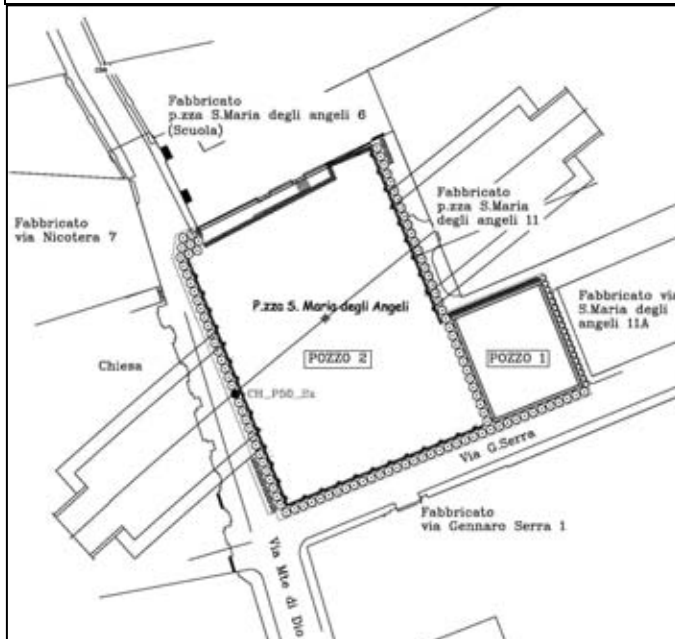


GRAFICO TEMPERATURE

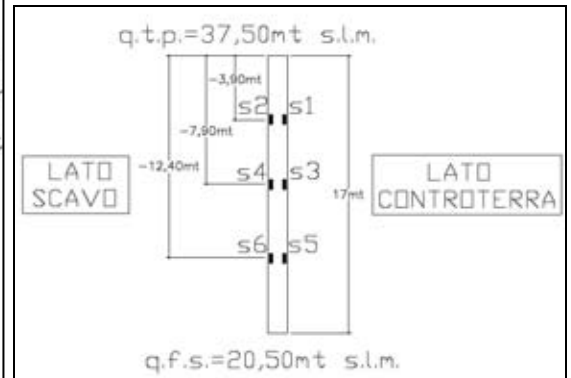


Pannello strumentato

CH_P50



**SCHEMA INSTALLAZIONE
STRUMENT. GEOTECNICA (BECV
PER METALLO)
PALO N°50**



Le barrette con numero progressivi dispari (s1,s3,s5) sono installate lato contro terra, mentre quelle con numero pari (s2,s4,s6) sono poste lato scavo; la direzione di installazione è parallela all'asse di scavo.

Affidabilità strumentale

A.T.I. LM6 – TreEsse

buono
da rivedere
da scartare

X

Congruenza progettuale
C.T. ATI LM6 – C.T.
Monitoraggio

congruente
non congruente, da valutare
non congruente con implicazioni
sulla sicurezza

NOTE

Le elaborazioni di seguito riportate includono lo storico delle misure.

TABULATI

Ubicazione STAZIONE CHIAIA

Opera \ \ P50

Strumento Barretta Est. per Metallo

Data posa in opera 03/09/2009

Data lettura di zero 03/09/2009

Ultima Misura 177 in data 25/10/2013

Letture n°	DATA	CH_P50_S1		CH_P50_S2		CH_P50_S3		CH_P50_S4		CH_P50_S5		CH_P50_S6	
		Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]
125	31/7/12 10.00	-65,4	20,4	-95,1	18,9	-121,2	16,3	-64,3	18,9	-57,3	18,6	-67,5	19,4
126	8/8/12 10.30	-60,1	20,5	-88,6	19,1	-124,0	16,4	-57,8	19,1	-52,1	18,7	-61,0	19,6
127	29/8/12 10.00	-73,2	20,1	-95,5	19,2	-135,8	16,1	-67,1	19,0	-59,8	18,4	-74,0	19,2
128	5/9/12 10.30	-71,1	19,6	-85,4	18,7	-103,7	16,4	-61,0	18,5	-43,9	18,7	-35,8	19,0
129	12/9/12 10.00	-77,6	19,4	-95,9	18,5	-109,0	16,3	-69,1	18,5	-50,4	18,5	-38,7	19,1
130	20/9/12 10.30	-71,9	19,2	-93,1	18,4	-106,1	16,2	-73,2	18,5	-55,7	18,4	-29,3	19,2
131	26/9/12 10.00	-74,8	19,3	-87,8	18,5	-110,2	16,2	-66,3	18,4	-62,2	18,2	-39,9	19,0
132	3/10/12 10.30	-65,0	19,1	-100,8	18,1	-107,3	16,1	-67,1	18,0	-52,5	18,0	-36,2	18,3
133	8/10/12 11.00	-63,0	18,6	-98,0	18,0	-106,9	15,8	-59,0	18,0	-41,9	18,2	-33,4	18,2
134	15/10/12 11.30	-59,0	18,6	-99,6	18,2	-105,3	15,6	-60,6	18,2	-35,4	18,4	-28,1	18,3
135	24/10/12 11.00	-56,1	18,5	-97,1	18,4	-100,0	15,7	-62,2	18,4	-30,1	18,5	-22,8	18,4
136	31/10/12 11.20	-51,7	18,2	-93,9	18,0	-98,0	15,2	-74,0	18,1	-41,9	18,2	-33,4	18,2
137	7/11/12 11.00	-58,2	18,0	-95,5	18,2	-104,5	15,0	-68,7	18,2	-40,3	18,0	-31,8	18,0
138	19/11/12 15.00	-61,0	18,1	-86,2	18,3	-96,8	15,3	-67,1	18,0	-35,0	18,1	-25,3	18,2
139	26/11/12 12.00	-56,5	17,8	-81,7	18,0	-91,1	15,1	-68,7	17,2	-24,0	18,0	-15,5	18,0
140	3/12/12 11.00	-51,7	17,2	-82,5	17,6	-86,6	14,8	-67,1	17,0	-23,6	17,7	-14,7	17,4
141	13/12/12 11.30	-50,0	17,0	-80,9	17,4	-76,9	14,6	-65,5	16,8	-13,9	17,5	-14,3	17,1
142	19/12/12 11.00	-44,8	17,1	-83,8	17,5	-71,6	14,7	-68,3	16,9	-8,6	17,6	-10,2	17,1
143	10/1/13 10.00	-43,5	17,2	-89,0	17,4	-78,1	14,5	-71,2	17,0	-7,0	17,4	-11,5	17,0
144	16/1/13 10.45	-48,8	17,1	-83,8	17,5	-85,0	14,6	-74,0	17,1	-15,9	17,0	-20,8	16,9
145	31/1/13 9.30	-41,9	17,0	-80,5	17,1	-75,3	14,4	-73,6	16,8	-10,2	16,8	-22,8	16,4
146	12/2/13 10.00	-38,7	16,6	-76,0	16,8	-69,6	14,2	-74,4	16,4	-1,3	16,2	-15,5	16,0
147	28/2/13 11.00	-32,6	16,1	-75,2	16,2	-55,8	14,0	-71,2	16,0	1,9	15,8	-6,6	15,4
148	7/3/13 11.00	-29,7	16,0	-69,6	16,0	-52,5	13,6	-66,3	15,4	3,5	15,6	-5,0	15,2
149	13/3/13 11.30	-26,5	15,6	-69,6	16,0	-49,3	13,2	-61,9	15,1	6,8	15,2	4,8	15,0
150	20/3/13 11.00	-23,3	15,2	-64,7	15,4	-39,6	13,0	-55,0	15,0	12,5	15,0	8,0	14,6
151	27/3/13 11.30	-17,6	15,0	-71,2	15,2	-34,3	13,1	-53,3	14,8	14,1	14,8	10,8	14,5
152	3/4/13 11.30	-17,6	14,0	-61,4	15,0	-25,7	12,8	-50,1	14,4	33,6	14,4	18,1	14,1
153	10/4/13 12.00	-10,7	13,9	-65,5	15,0	-28,6	12,9	-44,4	14,2	44,2	14,6	12,9	14,0
154	17/4/13 11.00	-18,4	13,6	-54,9	15,2	-36,3	12,6	-50,9	14,0	33,6	14,4	2,3	13,8
155	2/5/13 10.30	-31,0	13,9	-58,2	15,6	-55,4	12,7	-56,6	14,2	32,0	14,6	-0,5	13,9
156	7/5/13 11.00	-35,5	14,2	-52,9	15,7	-58,2	12,8	-62,3	14,4	29,1	14,7	-8,3	13,6
157	16/5/13 11.30	-38,7	14,6	-54,5	15,9	-62,7	13,1	-72,4	14,9	34,4	14,8	-23,3	13,7
158	21/5/13 11.00	-33,4	14,7	-48,8	15,7	-59,9	13,0	-69,6	14,8	45,0	15,0	-13,9	13,8
159	28/5/13 11.40	-36,3	14,8	-51,7	15,8	-61,5	13,2	-76,5	14,9	59,6	15,2	-20,9	13,9
160	4/6/13 11.00	-39,1	14,9	-54,5	15,9	-68,0	13,0	-83,0	14,7	45,0	15,0	-14,4	14,1
161	13/6/13 10.00	-49,7	14,7	-47,6	15,8	-70,8	13,1	-76,1	14,6	50,3	15,1	-9,1	14,2
162	19/6/13 11.00	-51,3	14,9	-54,5	15,9	-71,2	13,4	-80,6	14,9	45,8	15,4	-12,3	14,6
163	25/6/13 10.30	-56,6	14,8	-52,9	15,7	-60,3	13,3	-80,2	14,6	59,6	15,2	-2,6	14,4
164	4/7/13 12.30	-51,3	14,9	-50,1	15,6	-55,0	13,4	-81,0	14,2	64,9	15,3	-4,2	14,6
165	11/7/13 12.00	-57,0	15,1	-48,4	15,4	-57,4	13,2	-83,8	14,3	67,7	15,2	-13,5	14,5
166	18/7/13 10.00	-54,1	15,0	-59,0	15,2	-63,1	13,4	-90,3	14,1	62,0	15,4	-13,1	14,2
167	25/7/13 10.45	-61,4	15,4	-61,8	15,3	-61,5	13,2	-74,5	14,4	46,2	15,1	-7,4	14,0
168	1/8/13 12.45	-67,9	15,2	-56,6	15,4	-68,4	13,3	-90,3	14,1	59,6	15,2	-18,4	14,1
169	6/8/13 11.45	-62,7	15,3	-54,9	15,2	-75,3	13,4	-87,5	14,0	61,2	15,0	-2,6	14,4
170	29/8/13 11.00	-67,1	15,6	-60,6	15,4	-81,0	13,6	-97,2	14,2	49,9	15,4	-11,1	14,7
171	5/9/13 11.30	-68,7	15,8	-67,5	15,5	-81,4	13,9	-87,5	14,0	45,4	15,7	-8,3	14,6
172	12/9/13 10.00	-73,2	16,1	-72,0	15,8	-87,1	14,1	-89,1	14,2	42,5	15,8	-17,2	14,2
173	18/9/13 10.30	-68,7	15,8	-61,4	16,0	-78,9	14,1	-95,6	14,0	32,0	15,6	-11,5	14,0
174	25/9/13 11.30	-59,0	15,6	-73,6	16,0	-80,2	14,0	-80,6	13,9	25,5	15,4	-24,5	14,6
175	9/10/13 10.30	-53,3	15,4	-68,3	16,1	-65,5	14,2	-90,7	13,4	31,2	15,2	-33,4	14,2
176	14/10/13 10.00	-51,7	15,2	-63,1	16,2	-59,0	14,4	-76,9	13,2	36,4	15,3	-31,8	14,0
177	25/10/13 11.00	-58,2	15,0	-69,6	16,0	-69,6	14,2	-62,3	13,4	28,3	15,3	-30,2	13,8



Ubicazione STAZIONE CHIAIA
Opera \ \ P50
Strumento Barretta Est. per Metallo
Data posa in opera 03/09/2009
Data lettura di zero 03/09/2009

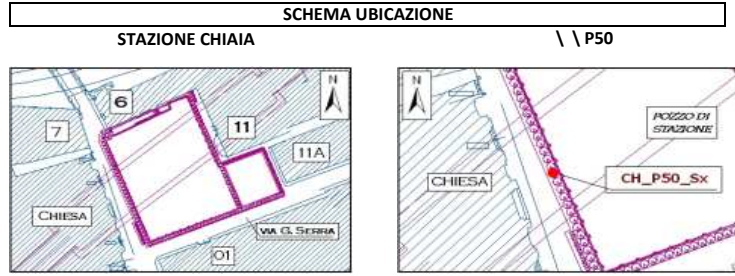


GRAFICO MICROSTRAIN

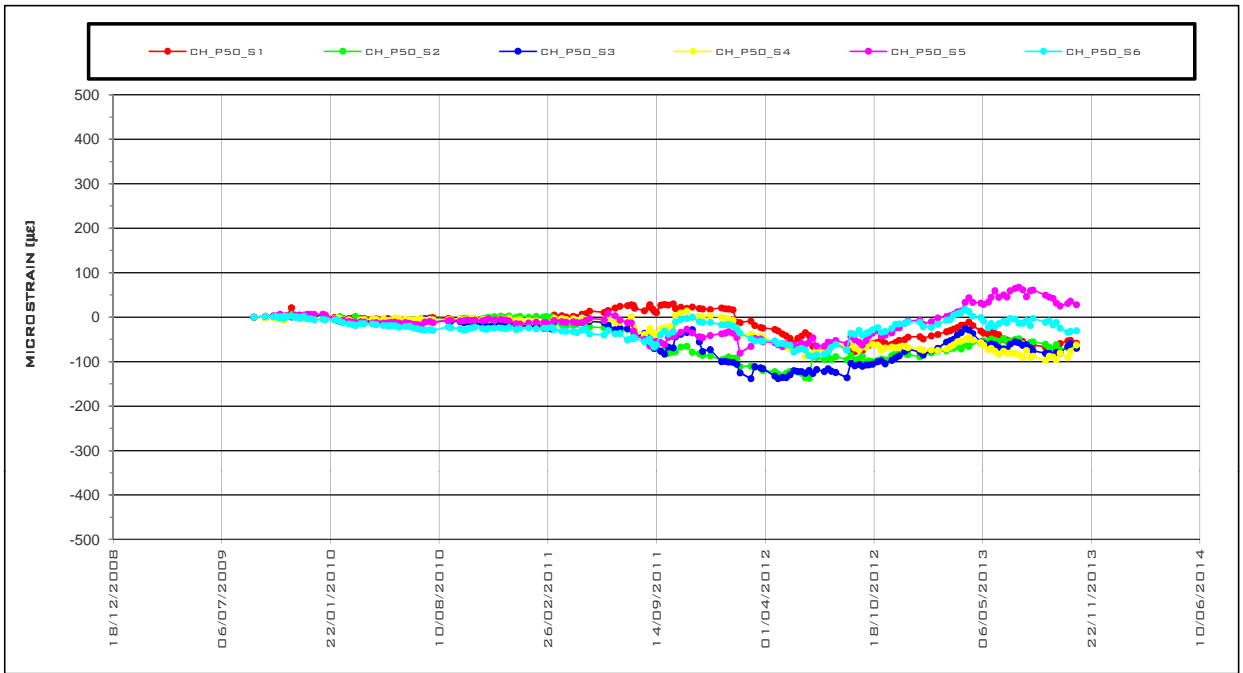
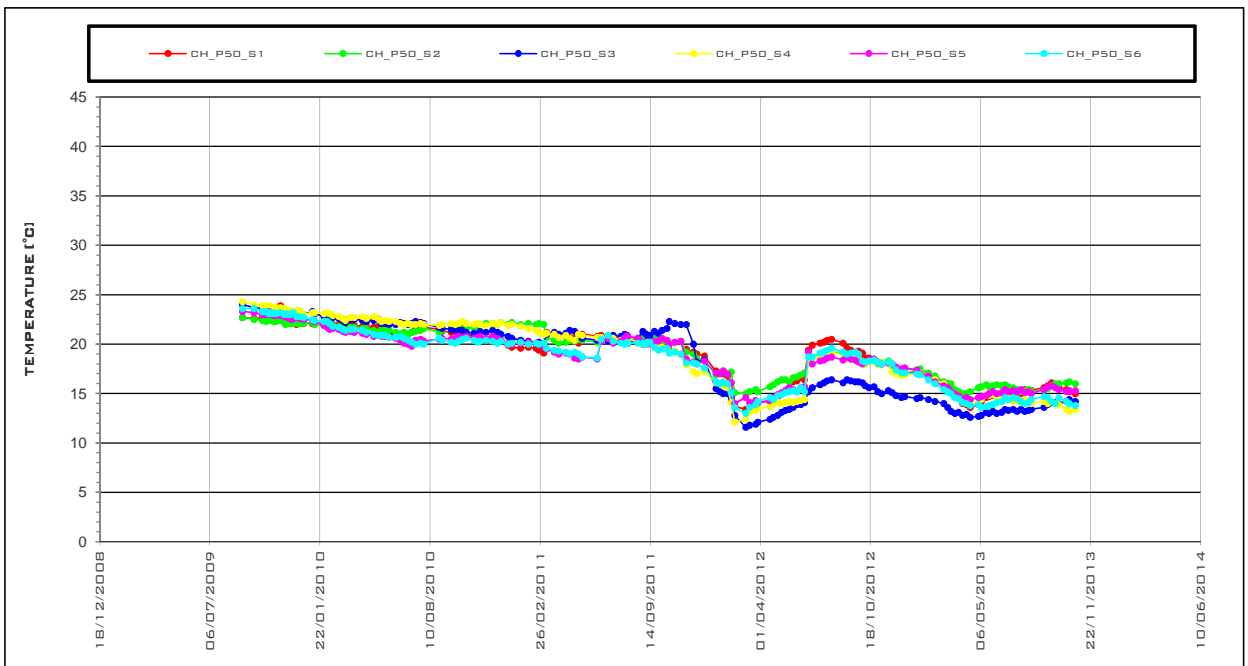
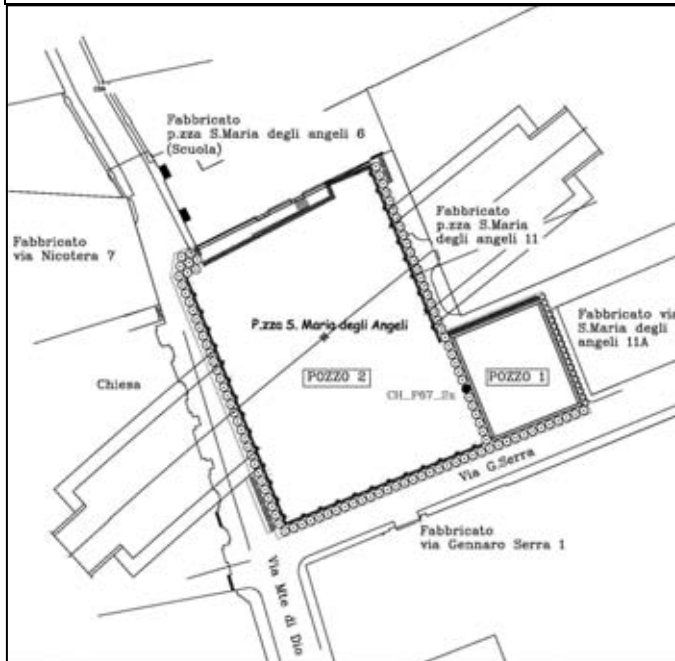


GRAFICO TEMPERATURE

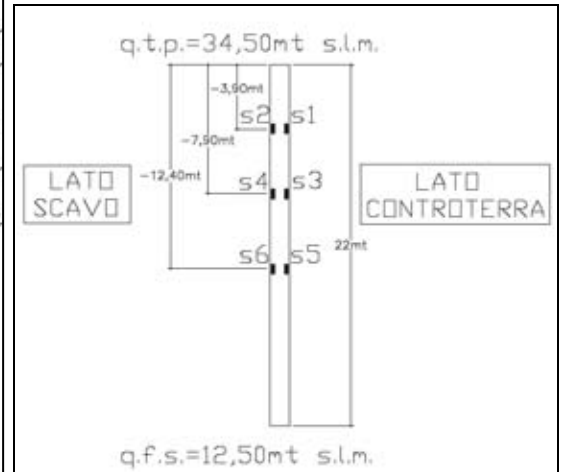


Pannello strumentato

CH_P67



SCHEMA INSTALLAZIONE
STRUMENT. GEOTECNICA (BECV
PER METALLO)
PALO N°67



Le barrette con numero progressivi dispari (s1,s3,s5) sono installate lato contro terra, mentre quelle con numero pari (s2,s4,s6) sono poste lato scavo; la direzione di installazione è parallela all'asse di scavo.

Affidabilità strumentale

A.T.I. LM6 – TreEsse

buono
da rivedere
da scartare

X

Congruenza progettuale
C.T. ATI LM6 – C.T.
Monitoraggio

congruente
non congruente, da valutare
non congruente con implicazioni
sulla sicurezza

NOTE

Le elaborazioni di seguito riportate includono lo storico delle misure.

La barretta estensimetrica a c.v. CH_P67_S1 restituisce valori discontinui dal 28/09/2011.



TABULATI

Ubicazione STAZIONE CHIAIA

Opera \ \ P67

Strumento Barretta Est. per Metallo

Data posa in opera 03/09/2009

Data lettura di zero 03/09/2009

Ultima Misura 181 in data 25/10/2013

Letture n°	DATA	CH_P67_S1		CH_P67_S2		CH_P67_S3		CH_P67_S4		CH_P67_S5		CH_P67_S6	
		Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]
129	31/7/12 11.00			-92,7	19,6	-29,7	23,0	-144,3	18,9	-57,3	21,4	-131,7	22,3
130	8/8/12 11.30			-95,5	19,7	-24,4	23,1	-145,9	19,1	-50,8	21,6	-122,3	22,4
131	29/8/12 11.30			-100,8	19,6	-33,8	23,0	-139,0	19,0	-56,5	21,8	-134,1	22,1
132	5/9/12 11.00			-131,3	19,1	-17,1	22,7	-135,8	18,6	-59,4	21,9	-110,5	22,7
133	12/9/12 11.30			-124,4	19,0	-14,3	22,6	-150,4	18,4	-69,9	21,7	-130,8	21,7
134	20/9/12 11.00			-124,0	19,7	-12,6	22,4	-156,9	18,2	-63,0	21,6	-140,2	21,6
135	26/9/12 11.30			-121,1	19,6	-20,8	22,4	-154,1	18,1	-61,4	21,4	-138,6	21,4
136	3/10/12 11.00			-115,0	19,1	-12,2	22,1	-147,1	18,0	-52,9	21,1	-134,1	21,1
137	8/10/12 11.30			-119,1	18,1	-13,5	21,0	-153,6	17,8	-50,0	21,0	-131,3	21,0
138	15/10/12 11.00			-117,1	18,6	-5,8	21,3	-160,2	17,6	-55,7	21,2	-141,0	21,2
139	24/10/12 11.00			-119,9	18,7	-0,5	21,4	-146,7	17,7	-61,4	21,4	-130,4	21,4
140	31/10/12 10.30			-115,5	18,4	1,1	21,2	-144,7	17,2	-59,8	21,2	-128,8	21,2
141	7/11/12 10.00			-122,0	18,2	-5,4	21,0	-138,2	17,4	-66,3	21,0	-139,4	21,0
142	19/11/12 15.00			-128,5	18,0	-11,0	21,2	-135,4	17,3	-67,9	21,2	-134,1	21,1
143	26/11/12 12.00			-128,5	18,0	-11,0	21,2	-135,4	17,3	-67,9	21,2	-134,1	21,1
144	3/12/12 11.00			-123,6	17,4	-12,7	20,4	-130,5	16,7	-58,1	21,0	-134,5	21,4
145	13/12/12 11.30			-122,0	17,2	-16,3	20,1	-115,5	16,6	-57,7	20,7	-128,8	21,2
146	19/12/12 11.00			-119,1	17,1	-11,1	20,2	-110,2	16,7	-48,4	20,8	-122,3	21,4
147	10/1/13 10.00			-112,2	17,0	-25,7	18,0	-103,3	16,6	-55,3	19,9	-143,1	18,7
148	16/1/13 10.45			-116,3	17,0	-35,1	17,9	-98,8	16,3	-64,7	19,8	-153,6	18,5
149	31/1/13 9.30			-110,6	16,8	-32,2	17,8	-104,1	16,2	-63,0	19,6	-150,8	18,4
150	12/2/13 10.30			-109,8	16,2	-27,3	17,2	-94,4	16,0	-53,3	19,4	-141,1	18,2
151	28/2/13 10.00			-91,5	15,7	-24,1	16,8	-88,7	15,8	-46,0	19,0	-126,8	17,7
152	7/3/13 11.00			-88,7	15,6	-22,5	16,6	-87,1	15,6	-42,7	18,6	-121,2	17,5
153	13/3/13 11.30			-84,2	15,3	-20,9	16,4	-85,4	15,4	-37,1	18,4	-122,0	17,1
154	20/3/13 11.00			-78,5	15,1	-3,8	16,8	-79,8	15,2	-32,6	18,1	-116,7	17,2
155	27/3/13 11.30			-71,6	15,0	6,0	16,6	-78,1	15,0	-29,8	18,0	-123,2	17,0
156	3/4/13 11.00			-94,4	12,8	-47,7	13,2	-170,4	12,1	-24,5	15,1	-96,4	14,2
157	10/4/13 12.00			-100,9	12,6	-42,4	13,3	-187,0	12,4	-27,4	15,2	-90,7	14,0
158	17/4/13 11.00			-95,2	12,4	-42,0	13,0	-161,0	12,2	-18,0	15,3	-101,7	14,1
159	2/5/13 11.30			-113,1	12,6	-41,2	13,4	-150,5	12,4	-22,5	15,6	-108,6	14,2
160	7/5/13 11.00			-126,9	12,8	-55,0	13,6	-163,1	12,7	-20,0	15,8	-106,2	14,4
161	16/5/13 11.30			-131,4	13,1	-66,4	14,0	-146,4	12,4	-22,9	15,9	-95,6	14,6
162	21/5/13 11.00			-126,1	13,2	-69,2	14,1	-148,0	12,6	-16,4	16,1	-106,2	14,4
163	28/5/13 11.00			-126,1	13,2	-69,2	14,1	-148,0	12,6	-16,4	16,1	-106,2	14,4
164	4/6/13 11.30			-138,3	13,2	-82,6	14,0	-156,6	12,9	-29,8	16,0	-114,3	14,4
165	13/6/13 11.00			-135,4	13,1	-76,1	14,2	-149,7	12,8	-22,1	16,3	-120,8	14,2
166	19/6/13 10.30			-145,2	13,3	-81,8	14,4	-160,6	12,9	-29,0	16,4	-126,5	14,4
167	25/6/13 10.30			-146,4	13,2	-88,3	14,2	-161,8	12,8	-23,3	16,2	-122,4	14,4
168	4/7/13 12.30			-152,1	13,4	-77,8	14,4	-159,0	12,7	-16,8	16,4	-117,1	14,5
169	11/7/13 12.00			-150,5	13,2	-84,3	14,2	-156,2	12,6	-23,3	16,2	-122,4	14,4
170	18/7/13 10.00			-156,1	13,4	-90,8	14,0	-162,7	12,4	-33,8	16,0	-128,9	14,2
171	25/7/13 10.30			-157,8	13,6	-73,7	14,4	-152,1	12,6	-20,4	16,1	-143,5	14,0
172	1/8/13 12.30			-168,3	13,4	-85,5	14,1	-161,8	12,8	-25,7	16,0	-142,3	14,1
173	6/8/13 11.30			-161,8	13,6	-94,0	14,4	-170,4	13,1	-21,3	15,7	-149,2	14,2
174	29/8/13 11.00			-171,6	13,8	-99,7	14,6	-173,2	13,2	-26,9	15,9	-146,8	14,4
175	5/9/13 11.30			-178,5	13,9	-101,3	14,8	-167,9	13,3	-39,1	15,9	-140,3	14,6
176	12/9/13 10.00			-184,2	14,1	-112,3	14,9	-175,2	13,7	-47,7	16,2	-141,9	14,8
177	18/9/13 10.30			-196,0	13,8	-118,0	15,1	-180,5	13,6	-53,3	16,4	-136,6	14,9
178	25/9/13 11.00			-191,9	13,8	-113,5	14,8	-183,4	13,7	-52,1	16,5	-147,6	15,0
179	9/10/13 11.00			-178,9	13,2	-104,6	14,2	-174,4	13,1	-35,1	15,9	-130,9	14,7
180	14/10/13 10.00			-189,5	13,0	-99,3	14,3	-165,1	13,2	-28,6	16,1	-125,7	14,8
181	25/10/13 11.00			-184,2	13,1	-103,3	14,3	-159,8	13,3	-17,6	16,0	-124,0	14,6



Ubicazione STAZIONE CHIAIA
Opera \ \ P67
Strumento Barretta Est. per Metallo
Data posa in opera 03/09/2009
Data lettura di zero 03/09/2009

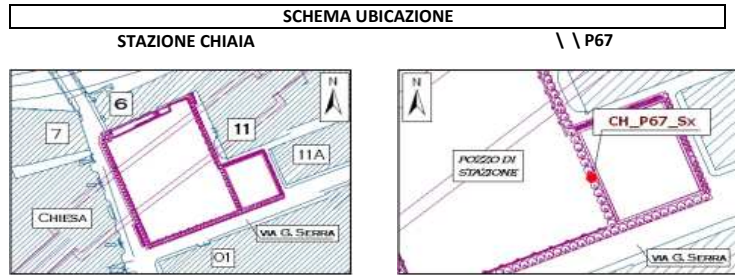


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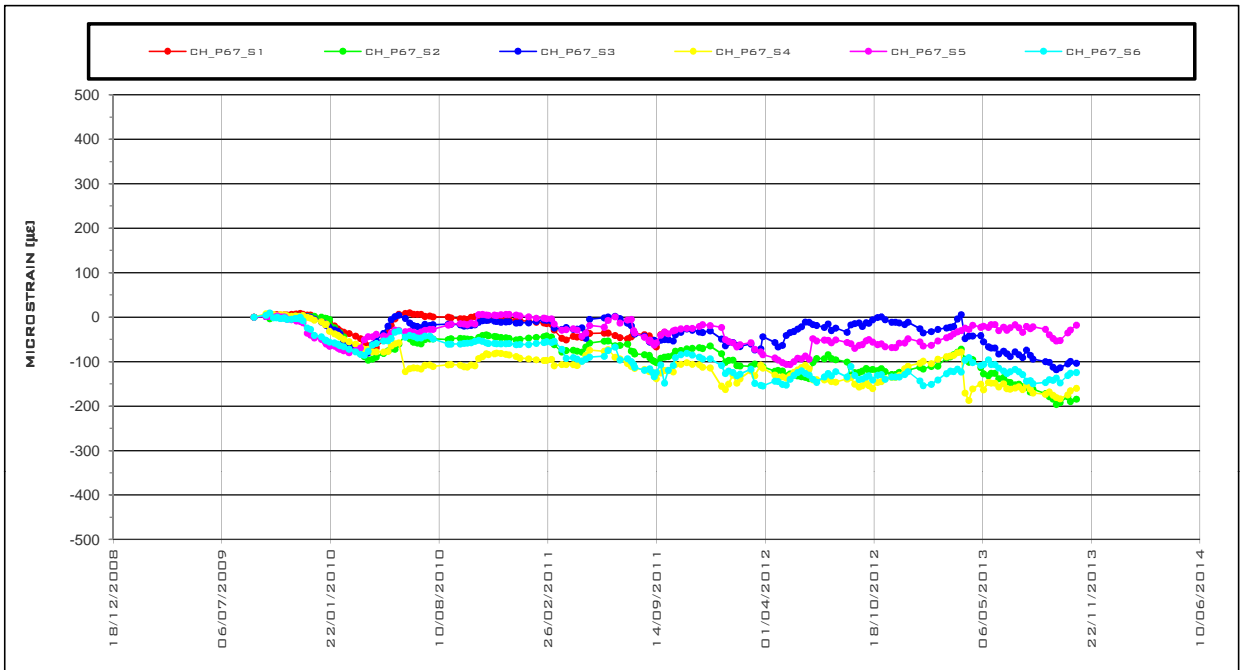
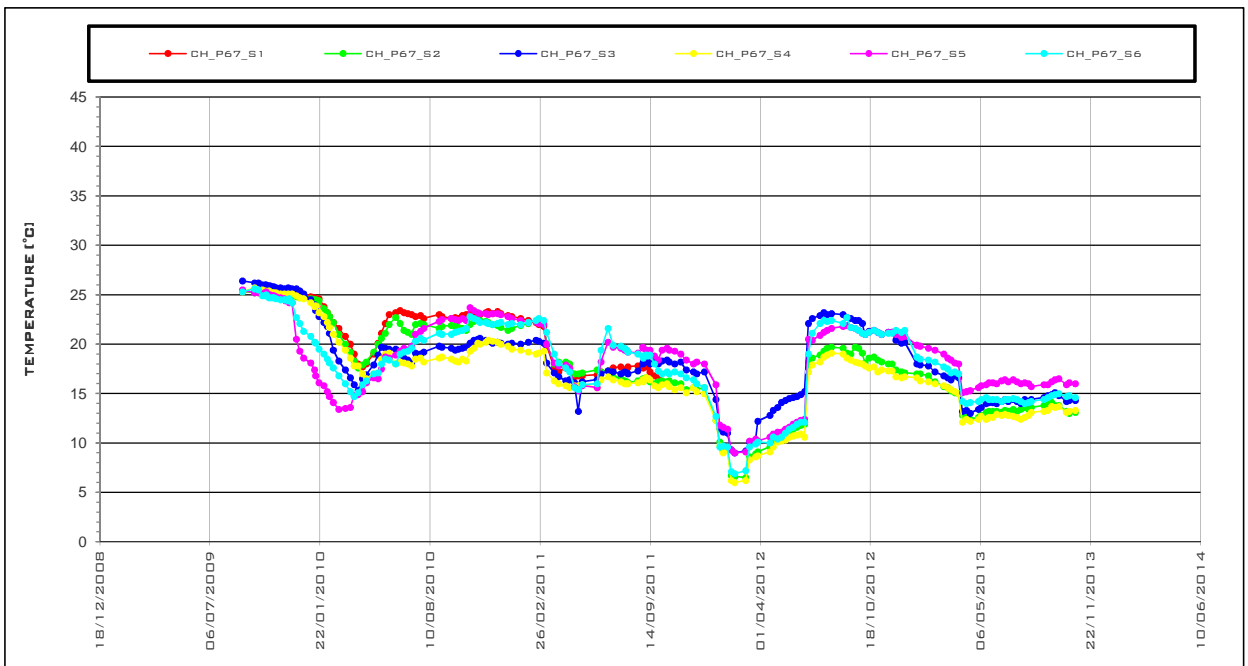
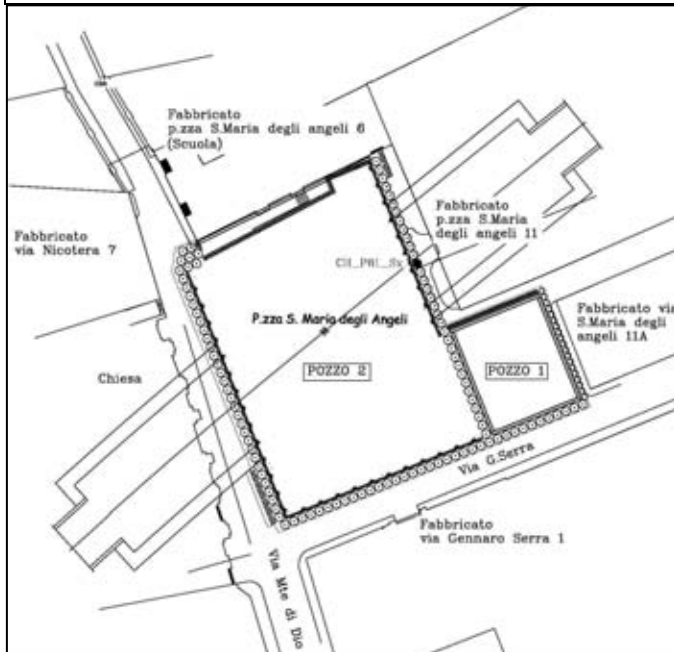


GRAFICO TEMPERATURE

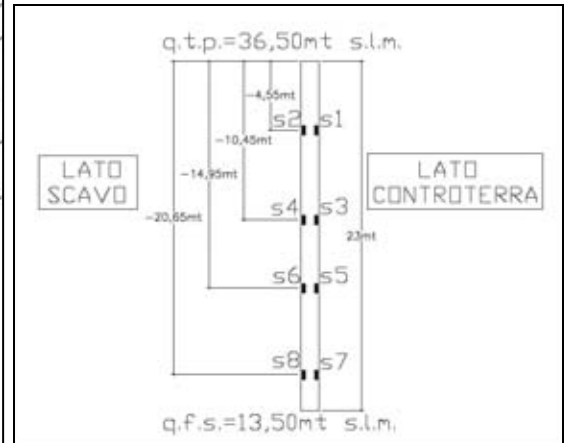


Pannello strumentato

CH_P81



**SCHEMA INSTALLAZIONE
STRUMENT. GEOTECNICA (BECV
PER METALLO)
PALO N°81**



Le barrette con numero progressivi dispari (s1,s3,s5,s7) sono installate lato contro terra, mentre quelle con numero pari (s2,s4,s6,s8) sono poste lato scavo; la direzione di installazione è parallela all'asse di scavo.

Affidabilità strumentale

A.T.I. LM6 – TreEsse

buono
da rivedere

da scartare

X

Congruenza progettuale

C.T. ATI LM6 – C.T.

Monitoraggio

congruente
non congruente, da valutare
non congruente con implicazioni
sulla sicurezza

NOTE

La barretta estensimetrica a c.v. CH_P81_S7 non è funzionante.

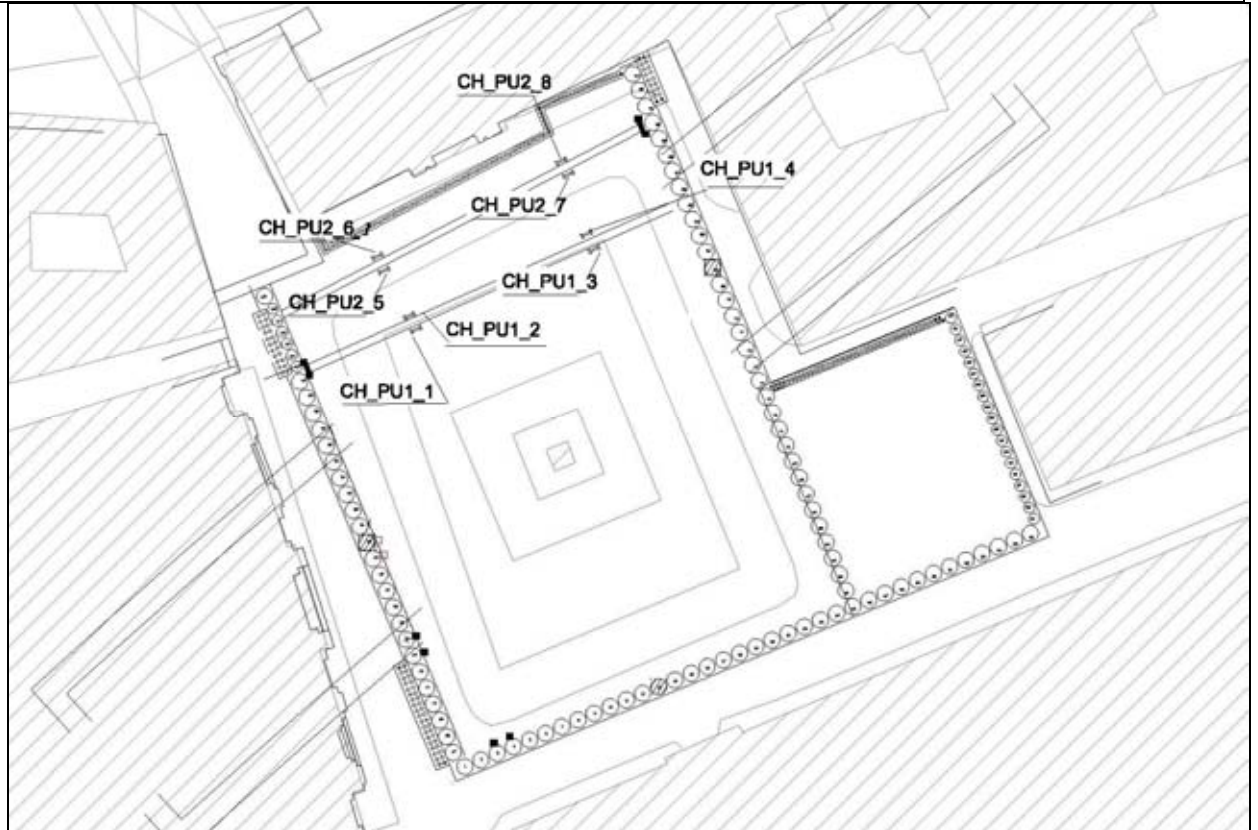
La barretta estensimetrica a c.v. CH_P81_S4 dalla data 25/03/10 non restituisce segnale

Le restanti barrette estensimetriche restituiscono valore discontinuo dal 20/04/2011

L'ultima misura disponibile è riportata nel report APR 2011 con codifica: LM6 7FX 2C I 00

Puntoni strumentati

CH_PU1 CH_PU2



Affidabilità strumentale

A.T.I. LM6 – TreEsse

buono
da rivedere
da scartare

X

Congruenza progettuale

C.T. ATI LM6 – C.T.
Monitoraggio

congruente
non congruente, da valutare
non congruente con implicazioni
sulla sicurezza

NOTE

La Barretta estensimetrica CH_PU2_6 risulta danneggiata e non restituisce valore.

La Barretta estensimetrica CH_PU2_6_1 sostituisce la CH_PU2_6_1



TABULATI

Ubicazione STAZIONE CHIAIA

Opera \ \ Puntone 1

Strumento Barretta Est. per Metallo

Data posa in opera 14/09/2011

Data lettura di zero 14/09/2011

Ultima Misura 91 in data 25/10/2013

Letture n°	DATA	CH_PU1_S1		CH_PU1_S2		CH_PU1_S3		CH_PU1_S4	
		Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]
39	8/8/12 11.00	181,4	33,7	91,2	29,1	90,7	28,6	77,3	29,3
40	29/8/12 10.30	170,4	33,8	94,0	29,0	88,7	28,1	99,7	28,8
41	5/9/12 10.00	178,1	33,1	102,9	28,4	89,9	27,2	99,3	28,1
42	12/9/12 11.00	172,9	33,0	96,4	28,2	91,1	27,3	102,1	28,0
43	20/9/12 10.40	176,1	32,6	102,1	28,0	96,8	27,1	105,4	27,6
44	26/9/12 10.00	177,7	32,4	102,5	27,7	99,7	27,0	98,8	27,4
45	3/10/12 11.00	179,3	32,2	108,6	27,2	102,9	26,6	111,4	27,1
46	8/10/12 11.30	174,0	31,1	114,3	27,0	114,3	26,2	120,0	26,8
47	15/10/12 11.00	168,8	31,0	119,6	27,1	117,1	26,1	117,5	26,6
48	24/10/12 11.00	167,1	31,2	112,7	27,2	122,4	26,2	122,8	26,7
49	31/10/12 12.00	177,7	31,4	119,2	27,4	43,9	22,1	28,5	22,3
50	7/11/12 11.00	179,3	31,2	106,2	27,0	36,2	21,8	12,2	20,3
51	19/11/12 15.00	176,9	31,0	87,1	26,1	35,8	21,1	-6,5	19,1
52	26/11/12 11.00	159,8	29,6	66,7	24,1	19,5	20,1	-16,2	18,3
53	3/12/12 10.00	159,0	29,2	70,8	24,1	17,9	19,3	-28,0	17,0
54	13/12/12 10.00	164,7	29,0	73,6	24,0	22,4	19,0	-27,6	16,7
55	19/12/12 11.00	170,0	29,1	75,2	23,8	20,3	18,5	-45,1	15,6
56	10/1/13 9.30	89,8	21,2	-6,5	18,1	-2,1	16,0	-45,9	15,2
57	16/1/13 10.30	69,9	18,9	5,3	17,4	10,5	15,7	-40,2	15,0
58	31/1/13 9.30	48,3	16,8	28,0	16,6	-21,6	15,4	-45,1	14,6
59	7/2/13 10.30	50,0	16,6	33,7	16,4	-14,3	15,0	-41,9	14,2
60	13/2/13 10.00	32,9	14,2	38,2	16,1	-11,0	14,6	-32,1	14,0
61	28/2/13 10.30	32,8	12,2	48,3	15,6	-3,7	14,2	-19,5	13,7
62	7/3/13 11.00	34,5	12,0	51,6	15,2	2,0	14,0	-15,1	13,4
63	13/3/13 11.30	40,1	11,8	61,3	15,0	1,2	13,6	-11,8	13,0
64	20/3/13 10.30	44,6	11,5	65,8	14,7	8,5	13,2	2,8	13,2
65	27/3/13 11.00	47,4	11,4	68,6	14,6	10,1	13,0	2,0	12,8
66	3/4/13 10.30	19,5	15,1	-12,6	16,6	-24,8	15,8	-41,1	14,6
67	10/4/13 11.00	3,2	17,1	-35,3	17,4	-32,5	18,5	-45,5	16,9
68	17/4/13 11.30	-19,1	17,6	-32,1	17,0	-29,6	18,4	-41,4	17,9
69	2/5/13 11.00	-11,4	17,9	-38,6	17,8	-30,0	18,7	-60,9	18,3
70	7/5/13 11.30	-14,6	18,3	-50,0	18,2	-42,6	19,0	-36,9	18,6
71	16/5/13 11.00	-23,1	18,6	-55,6	18,4	-66,2	18,4	-45,5	18,9
72	21/5/13 10.30	-26,0	18,7	-51,6	18,4	-62,1	19,4	-39,0	19,1
73	28/5/13 10.40	-31,7	18,9	-61,3	18,6	-67,8	19,6	-43,4	19,4
74	4/6/13 11.00	-37,3	19,1	-71,9	18,4	-70,6	19,7	-49,9	19,2
75	13/6/13 11.30	-32,1	19,2	-66,6	18,5	-67,8	19,6	-39,4	19,4
76	19/6/13 11.00	-41,8	19,4	-72,3	18,7	-72,3	19,9	-41,0	19,6
77	25/6/13 11.45	-47,9	20,9	-71,9	20,4	-70,6	20,7	-84,5	17,7
78	4/7/13 12.15	-41,0	20,8	-70,2	20,2	-63,7	20,6	-79,2	17,8
79	11/7/13 11.00	-47,5	20,6	-76,7	20,0	-70,2	20,4	-77,6	17,6
80	18/7/13 10.00	-49,1	20,8	-67,4	20,1	-76,7	20,2	-83,3	17,8
81	25/7/13 10.50	-15,3	24,9	-35,3	23,4	-66,1	22,4	-55,2	19,1
82	1/8/13 12.45	5,8	27,3	-8,8	26,9	54,6	28,3	24,9	26,0
83	6/8/13 11.45	16,0	28,8	-1,1	28,2	70,0	28,9	41,2	28,0
84	29/8/13 11.00	9,1	28,9	-6,8	28,4	45,2	28,2	47,7	28,2
85	5/9/13 11.00	16,0	30,8	-0,2	30,6	63,2	31,0	56,2	30,9
86	12/9/13 11.30	1,0	28,9	4,6	29,0	47,3	28,7	42,0	28,4
87	18/9/13 11.00	3,8	26,8	1,8	27,1	39,9	27,1	61,9	26,7
88	25/9/13 10.00	-30,4	24,0	-32,0	24,0	29,3	23,9	46,8	23,8
89	9/10/13 11.00	-37,3	23,1	-38,9	22,1	31,8	23,1	51,7	22,2
90	14/10/13 11.30	-30,4	23,0	-39,3	22,4	38,7	23,0	53,3	22,0
91	25/10/13 11.00	-19,0	22,6	-19,8	22,0	43,5	22,4	68,7	21,6



Ubicazione STAZIONE CHIAIA
Opera \ \ Puntone 1
Strumento Barretta Est. per Metallo
Data posa in opera 14/09/2011
Data lettura di zero 14/09/2011

SCHEMA UBICAZIONE

STAZIONE CHIAIA

\ \ Puntone 1

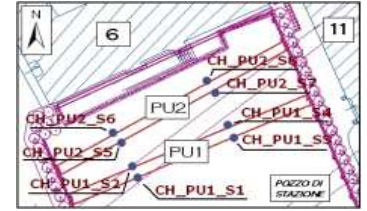
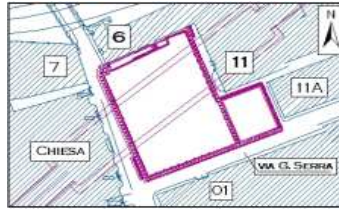


GRAFICO MICROSTRAIN

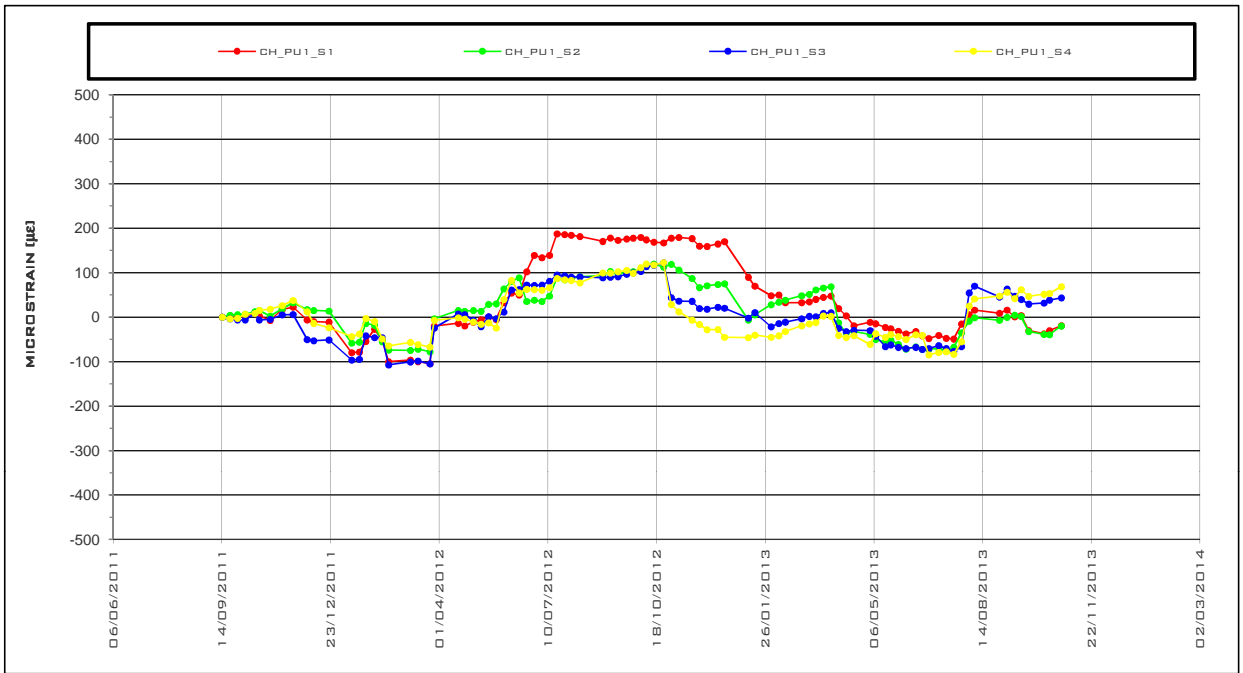
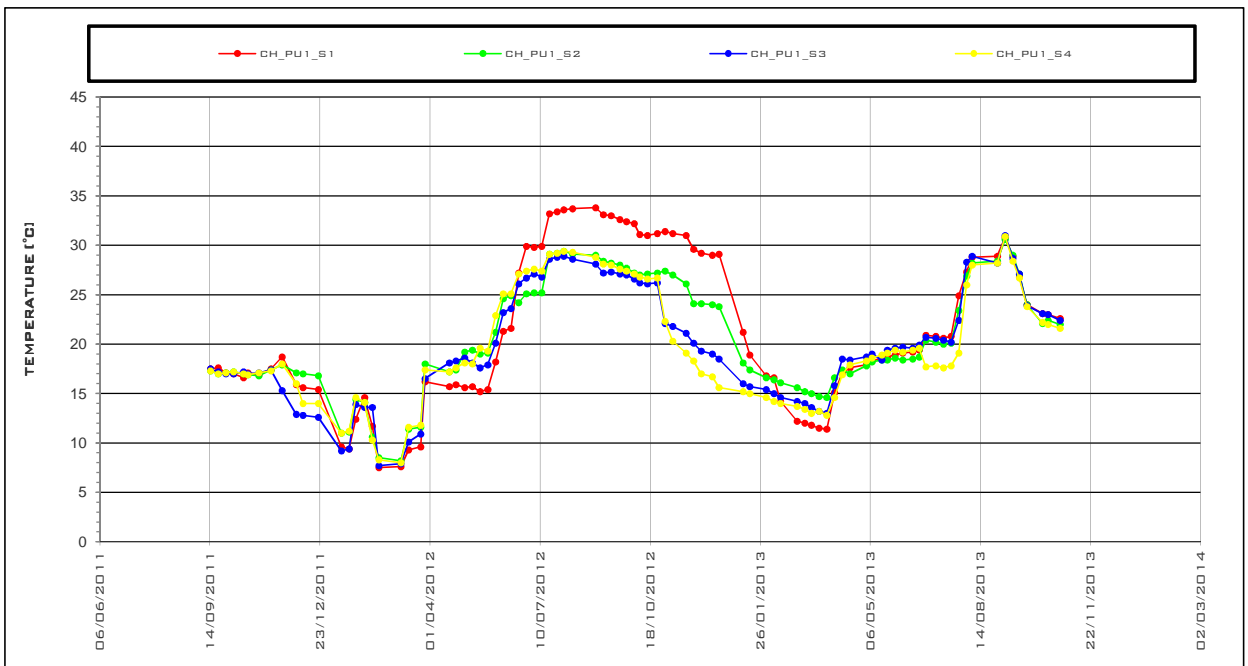


GRAFICO TEMPERATURE



TABULATI

Ubicazione STAZIONE CHIAIA

Opera \ \ Puntone 2

Strumento Barretta Est. per Metallo

Data posa in opera 14/09/2011

Data lettura di zero 14/09/2011

Ultima Misura 92 in data 25/10/2013

Letture n°	DATA	CH_PU2_S5		CH_PU2_S6		CH_PU2_S6.1		CH_PU2_S7		CH_PU2_S8	
		Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]
40	8/8/12 11.00	62,3	31,2	94,8	31,2			55,4	30,4	70,8	29,7
41	29/8/12 10.30	63,1	30,6	81,0	28,4			50,1	29,3	80,6	27,5
42	5/9/12 10.00	54,2	29,2	84,2	28,0			54,6	29,0	83,8	27,1
43	12/9/12 11.00	51,7	29,0	88,7	27,7			56,2	28,8	86,6	27,0
44	20/9/12 10.40	59,0	28,6	78,1	27,5			37,5	28,6	85,0	27,2
45	26/9/12 10.00	60,7	28,4	81,0	27,4			44,4	28,5	91,9	27,1
46	3/10/12 11.00	68,0	28,0	80,1	27,0			47,7	28,1	100,5	26,8
47	8/10/12 11.30	71,2	27,6	78,9	26,9			35,5	27,1	100,0	26,1
48	15/10/12 11.00	74,1	27,5	80,5	26,7			38,3	27,0	96,0	26,1
49	24/10/12 11.00	79,3	27,6					43,6	27,1	101,3	26,2
50	31/10/12 12.00	89,9	27,8					15,9	22,5	41,1	22,6
51	7/11/12 11.00	89,1	27,4					-4,0	21,2	11,8	21,2
52	19/11/12 15.00	82,6	27,2			0,0	18,6	-10,9	20,3	-9,7	20,1
53	26/11/12 11.00	71,6	25,3			6,1	18,1	-28,0	18,9	-4,4	19,2
54	3/12/12 10.00	62,7	24,9			-7,3	18,0	-32,5	18,2	4,5	18,6
55	13/12/12 10.00	67,1	24,6			-0,8	18,2	-26,8	18,0	10,2	18,4
56	19/12/12 11.00	68,7	24,4			0,8	18,0	-21,5	18,1	17,1	18,3
57	10/1/13 9.30	-11,4	19,5			-7,8	16,3	-26,0	17,4	19,9	17,2
58	16/1/13 10.30	-30,5	16,6			-7,8	15,3	-24,4	16,2	20,3	15,9
59	31/1/13 9.30	-40,7	15,1			-17,1	15,2	-31,3	16,3	26,8	16,1
60	7/2/13 10.30	-32,1	14,8			-15,5	15,0	-26,8	16,0	37,8	16,0
61	13/2/13 10.00	-22,4	14,6			-11,0	14,7	-28,5	15,2	32,1	15,2
62	28/2/13 10.30	-8,2	14,1			-4,1	14,6	-22,8	15,0	37,7	15,0
63	7/3/13 11.00	-5,3	14,0			-2,5	14,4	-29,7	15,1	41,0	14,6
64	13/3/13 11.30	-3,7	13,8			-3,3	14,0	-27,7	14,6	44,2	14,2
65	20/3/13 10.30	0,7	13,5			2,4	13,8	-24,8	14,5	52,3	14,2
66	27/3/13 11.00	-0,1	13,1			4,0	13,6	-19,5	14,6	58,0	14,0
67	3/4/13 10.30	-26,0	16,3			-13,8	16,8	-104,4	16,3	11,8	16,2
68	10/4/13 11.00	-94,6	18,0			-15,5	17,0	-101,1	17,9	-31,7	17,3
69	17/4/13 11.30	-70,3	19,0			-24,4	16,6	-82,9	18,4	-39,4	17,0
70	2/5/13 11.00	-103,2	19,3			-52,0	17,0	-92,6	18,6	-53,2	17,2
71	7/5/13 11.30	-128,3	19,9			-56,5	17,3	-88,9	18,9	-58,9	17,4
72	16/5/13 11.00	-134,0	20,1			-75,6	17,4	-93,4	19,2	-64,6	17,6
73	21/5/13 10.30	-131,2	20,0			-69,1	17,6	-89,4	19,2	-67,4	17,7
74	28/5/13 10.40	-134,0	20,1			-78,4	17,5	-97,9	19,5	-69,1	17,9
75	4/6/13 11.00	-131,2	20,0			-85,3	17,6	-84,5	19,6	-66,6	18,1
76	13/6/13 11.30	-124,7	20,2			-83,7	17,4	-79,2	19,7	-61,3	18,2
77	19/6/13 11.00	-134,0	20,1			-82,9	17,8	-78,8	19,4	-67,8	18,0
78	25/6/13 11.45	-134,8	20,7			-75,5	20,4	-88,9	19,9	-59,7	20,0
79	4/7/13 12.15	-134,4	20,4			-56,8	20,6	-86,1	19,8	-54,4	20,1
80	11/7/13 11.00	-145,0	20,2			-55,2	20,4	-96,7	19,6	-59,7	20,0
81	18/7/13 10.00	-146,6	20,4			-61,7	20,2	-101,9	19,5	-54,4	20,1
82	25/7/13 10.50	-120,6	23,2			-2,4	24,4	-107,2	20,4	-4,4	23,2
83	1/8/13 12.45	-65,3	27,4			18,8	26,8	-46,6	25,7	57,0	27,9
84	6/8/13 11.45	-55,1	28,9			56,6	28,9	-19,4	28,6	55,8	28,8
85	29/8/13 11.00	-67,3	28,9			26,6	29,1	-17,7	28,4	45,2	28,6
86	5/9/13 11.00	-54,2	31,3			36,7	31,6	-15,2	31,6	72,1	31,8
87	12/9/13 11.30	-74,2	29,0			13,5	28,7	-36,4	28,2	41,2	28,6
88	18/9/13 11.00	-89,2	27,1			11,5	26,2	-42,9	26,0	39,5	26,8
89	25/9/13 10.00	-109,2	23,8			9,8	23,4	-72,6	22,9	38,3	23,7
90	9/10/13 11.00	-88,9	22,8			13,9	22,4	-66,6	21,4	41,1	22,6
91	14/10/13 11.30	-89,7	22,4			15,5	22,2	-56,0	21,6	54,5	22,7
92	25/10/13 11.00	-86,5	22,0			25,2	22,0	-52,8	21,2	69,5	22,6



Ubicazione STAZIONE CHIAIA
Opera \ \ Puntone 2
Strumento Barretta Est. per Metallo
Data posa in opera 14/09/2011
Data lettura di zero 14/09/2011

SCHEMA UBICAZIONE

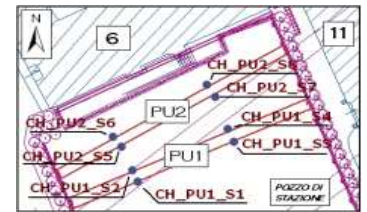
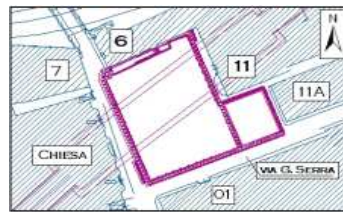


GRAFICO MICROSTRAIN

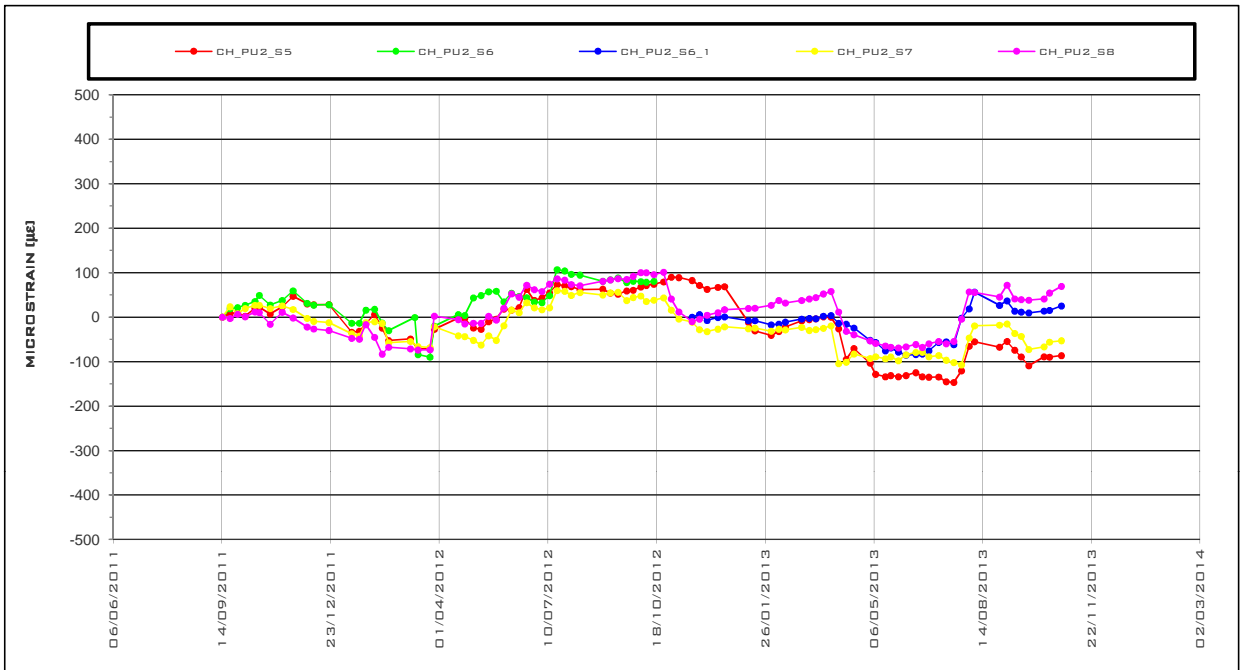
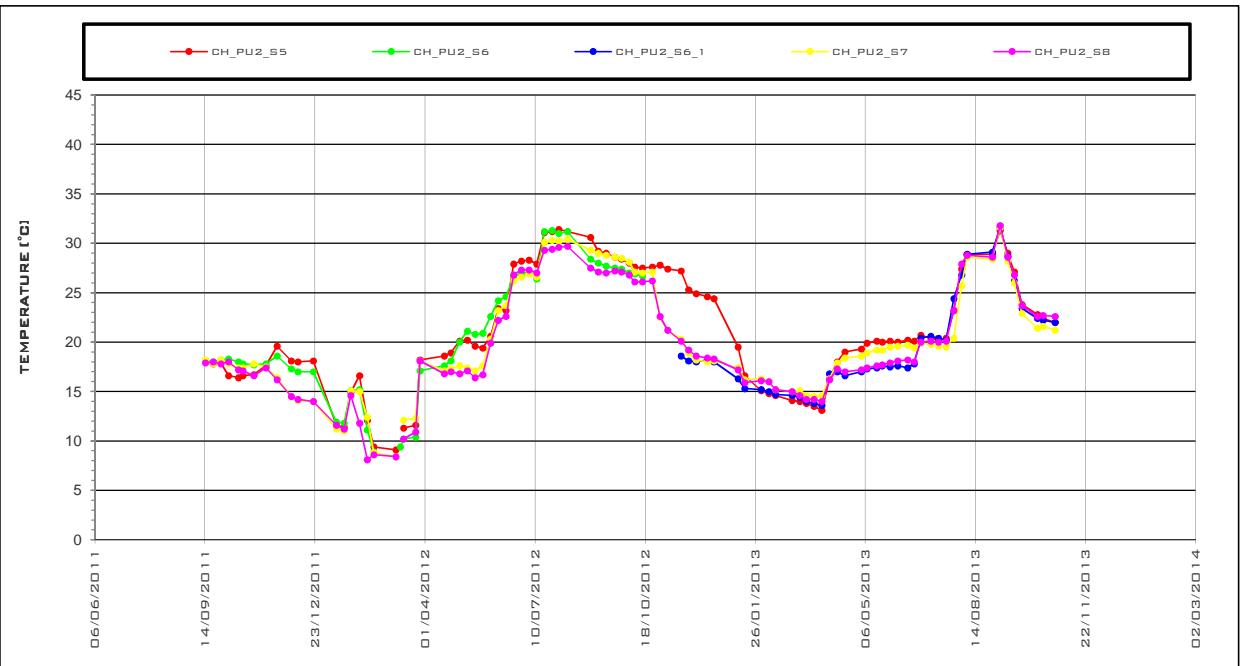



GRAFICO TEMPERATURE



 <p>Ansaldo STS A Finmeccanica Company</p>	<p>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</p> <p><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO</i> <i>REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C I 26 Data: 25/10/13 Metropolitana di Napoli A.T.I. LM6 TreEsse Engineering S.r.l.</p>
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9. MISURE GEOTECNICHE – CELLE DI CARICO TOROIDALI

Le celle di carico toroidali a compressione, costituite da un anello di acciaio di diverso diametro in funzione alla tipologia di utilizzo, trovano applicazione nel controllo della tesatura di tiranti o di bulloni per chiodature in roccia o nel terreno; servono inoltre per tenere sotto controllo gli stessi durante il servizio evidenziando eventuali rilasci o sovraccarichi tensionali.

Le celle, sottoposte ad un carico, subiscono una deformazione che viene rilevata dagli estensimetri, i quali variando il loro valore di resistenza, generano in uscita un segnale elettrico proporzionale al carico applicato.


 <p>Ansaldo STS A Finmeccanica Company</p>	<p>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</p> <p><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C I 26 Data: 25/10/13 Metropolitana di Napoli A.T.I. LM6 TreEsse Engineering S.r.l.</p>
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Tabelle riepilogative per le Celle di Carico toroidali installate in cantiere.

Tabella Celle di Carico Primo Ordine di Tiranti

NOME	TIPOLOGIA STRUMENTO	DATA INSTALLAZIONE	DISPONIBILITA' LETTURA			NOTE
			DATA LETTURA DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
CH_CC1	CC.TOROIDALI	16/05/11	16/05/11			
CH_CC2	CC.TOROIDALI	16/05/11	16/05/11			
CH_CC3	CC.TOROIDALI	16/05/11	16/05/11			
CH_CC4	CC.TOROIDALI	16/05/11	16/05/11			

Tabella Celle di Carico Secondo Ordine di Tiranti

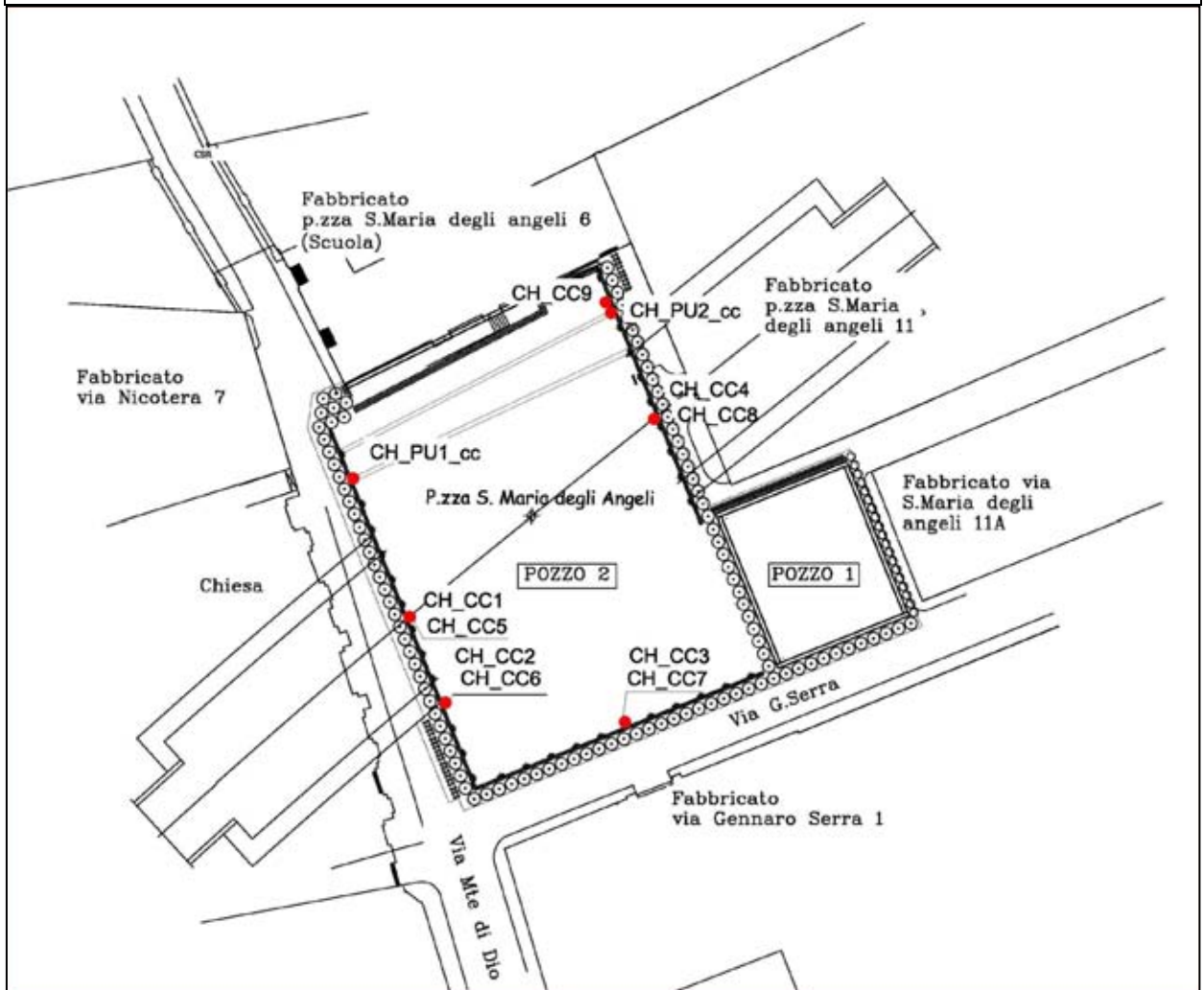
NOME	TIPOLOGIA STRUMENTO	DATA INSTALLAZIONE	DISPONIBILITA' LETTURA			NOTE
			DATA LETTURA DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
SECONDO ORDINE DI TIRANTI						
CH_CC5	CC. TOROIDALI	02/08/11	02/08/11			
CH_CC6	CC. TOROIDALI	02/08/11	02/08/11			
CH_CC7	CC. TOROIDALI	16/05/11	19/07/11			
CH_CC8	CC. TOROIDALI	16/05/11	19/07/11			
CH_CC9	CC. TOROIDALI	02/04/12	02/04/12			

Tabella Celle di Carico Puntoni

NOME	TIPOLOGIA STRUMENTO	DATA INSTALLAZIONE	DISPONIBILITA' LETTURA			NOTE
			DATA LETTURA DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
PUNTONI						
CH_PU1_CC	CC. TOROIDALI	14/09/11	14/09/11			
CH_PU2_CC	CC. TOROIDALI	14/09/11	14/09/11			

Celle di Carico

CH_CC1-9 / CH_PU1-2_CC



Affidabilità strumentale
A.T.I. LM6 – TreEsse

buono
da rivedere
da scartare

X

Congruenza progettuale
C.T. ATI LM6 – C.T. Monitoraggio

congruente
non congruente, da valutare
non congruente con implicazioni sulla
sicurezza

NOTE


TABULATI
Ubicazione STAZIONE CHIAIA

Tipo Strumento Cella di Carico

Posizione \ \ 1° Ordine Di Tiranti

Data posa in opera 16/05/2011

Data lettura di zero 16/06/2011

**Ultima
misura**

120

in data

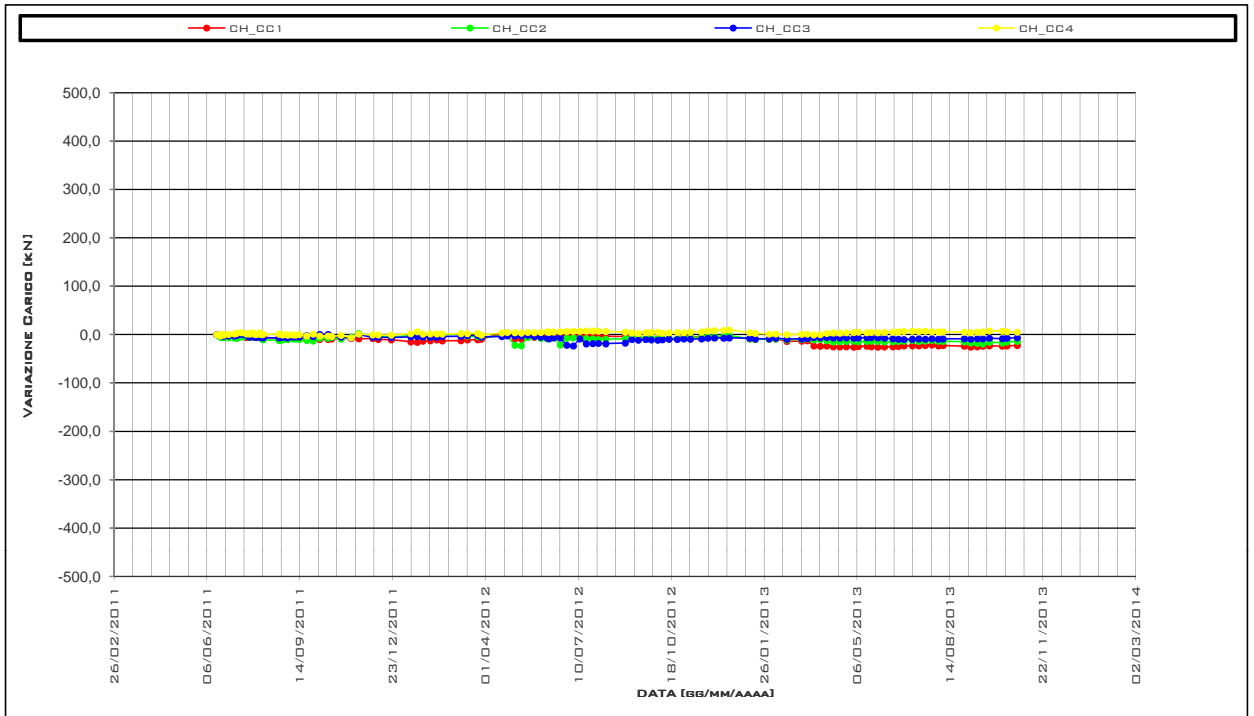
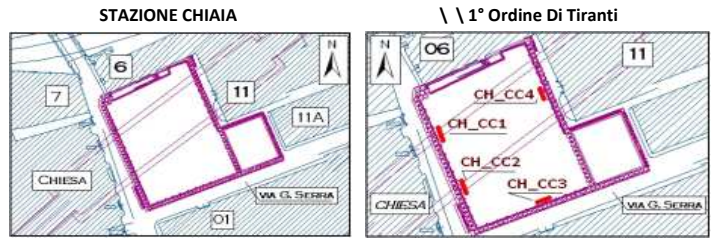
25/10/2013

Letture n°	DATA	CH_CC1		CH_CC2		CH_CC3		CH_CC4	
		Δ Carico [kN]	Carico [kN]	Δ Carico [kN]	Carico [kN]	Δ Carico [kN]	Carico [kN]	Δ Carico [kN]	Carico [kN]
67	31/07/2012 10.00	-3,00	297,97	-10,01	290,08	-18,00	311,53	7,00	292,88
68	08/08/2012 10.30	-3,50	297,47	-9,51	290,58	-19,00	310,53	6,50	292,38
69	29/08/2012 10.00	-4,00	296,97	-8,50	291,58	-17,50	312,03	5,00	290,88
70	05/09/2012 10.00	-9,00	291,97	-6,50	293,58	-10,00	319,53	3,50	289,38
71	12/09/2012 10.00	-8,00	292,97	-7,50	292,58	-11,50	318,03	2,50	288,38
72	20/09/2012 11.00	-7,50	293,47	-7,00	293,08	-10,00	319,53	4,00	289,88
73	26/09/2012 11.30	-8,50	292,47	-7,50	292,58	-11,00	318,53	4,50	290,38
74	03/10/2012 11.00	-8,00	292,97	-8,00	292,08	-11,50	318,03	5,00	290,88
75	08/10/2012 10.00	-9,00	291,97	-9,00	291,08	-10,50	319,03	3,00	288,88
76	15/10/2012 11.00	-8,50	292,47	-8,50	291,58	-9,50	320,03	4,00	289,88
77	24/10/2012 11.00	-8,00	292,97	-8,00	292,08	-10,00	319,53	4,50	290,38
78	31/10/2012 10.00	-6,00	294,97	-7,50	292,58	-9,00	320,53	4,00	289,88
79	07/11/2012 11.00	-5,50	295,47	-6,50	293,58	-9,50	320,03	5,00	290,88
80	19/11/2012 15.00	-4,50	296,47	-5,00	295,08	-9,00	320,53	5,50	291,38
81	26/11/2012 12.00	-4,00	296,97	-4,00	296,08	-7,50	322,03	8,00	293,88
82	03/12/2012 11.00	-5,00	295,97	-4,00	296,08	-7,00	322,53	8,50	294,38
83	13/12/2012 10.00	-4,50	296,47	-3,00	297,08	-7,50	322,03	9,00	294,88
84	19/12/2012 10.00	-4,00	296,97	-2,00	298,08	-7,00	322,53	9,50	295,38
85	10/01/2013 10.30	-8,50	292,47	-8,50	291,58	-7,50	322,03	4,00	289,88
86	16/01/2013 10.00	-10,00	290,97	-10,01	290,08	-9,00	320,53	2,50	288,38
87	31/01/2013 10.00	-9,50	291,47	-9,51	290,58	-8,50	321,03	1,00	286,88
88	07/02/2013 11.00	-9,00	291,97	-9,00	291,08	-7,50	322,03	1,50	287,38
89	19/02/2013 10.00	-14,00	286,97	-11,01	289,08	-9,50	320,03	0,00	285,88
90	07/03/2013 11.00	-13,50	287,47	-10,01	290,08	-9,00	320,53	0,50	286,38
91	13/03/2013 11.30	-12,50	288,47	-9,00	291,08	-8,00	321,53	1,00	286,88
92	20/03/2013 10.00	-23,50	277,47	-11,01	289,08	-6,00	323,53	-0,50	285,38
93	27/03/2013 10.30	-24,00	276,97	-10,01	290,08	-6,50	323,03	0,00	285,88
94	03/04/2013 10.00	-23,50	277,47	-12,51	287,58	-6,00	323,53	2,50	288,38
95	10/04/2013 10.15	-25,00	275,97	-15,01	285,07	-7,00	322,53	3,50	289,38
96	17/04/2013 10.00	-25,50	275,47	-14,51	285,57	-7,00	322,53	3,00	288,88
97	24/04/2013 11.30	-25,00	275,97	-14,01	286,07	-6,50	323,03	4,00	289,88
98	02/05/2013 10.30	-26,00	274,97	-13,51	286,58	-7,50	322,03	4,50	290,38
99	07/05/2013 10.30	-24,50	276,47	-14,51	285,57	-7,00	322,53	5,00	290,88
100	16/05/2013 11.30	-24,00	276,97	-14,01	286,07	-6,50	323,03	4,00	289,88
101	21/05/2013 10.30	-25,00	275,97	-13,51	286,58	-6,00	323,53	4,50	290,38
102	28/05/2013 11.30	-26,00	274,97	-14,01	286,07	-6,50	323,03	4,00	289,88
103	04/06/2013 11.00	-25,50	275,47	-15,01	285,07	-7,50	322,03	4,50	290,38
104	13/06/2013 11.30	-25,00	275,97	-14,51	285,57	-8,50	321,03	5,00	290,88
105	19/06/2013 11.00	-24,50	276,47	-14,01	286,07	-9,50	320,03	5,50	291,38
106	25/06/2013 11.30	-23,50	277,47	-13,51	286,58	-10,00	319,53	6,50	292,38
107	04/07/2013 12.00	-23,00	277,97	-12,01	288,08	-9,50	320,03	7,00	292,88
108	11/07/2013 11.00	-23,00	277,97	-14,01	286,07	-9,00	320,53	6,50	292,38
109	18/07/2013 10.30	-22,50	278,47	-13,01	287,08	-9,50	320,03	7,00	292,88
110	25/07/2013 11.30	-21,50	279,47	-12,01	288,08	-8,50	321,03	6,00	291,88
111	01/08/2013 12.30	-23,00	277,97	-13,51	286,58	-9,50	320,03	5,50	291,38
112	06/08/2013 12.30	-22,50	278,47	-14,01	286,07	-9,00	320,53	6,00	291,88
113	29/08/2013 12.30	-24,00	276,97	-15,01	285,07	-8,50	321,03	5,00	290,88
114	05/09/2013 10.30	-26,00	274,97	-17,01	283,07	-9,50	320,03	4,00	289,88
115	12/09/2013 11.00	-25,00	275,97	-18,01	282,07	-8,50	321,03	5,00	290,88
116	18/09/2013 11.30	-24,00	276,97	-19,01	281,07	-9,00	320,53	5,50	291,38
117	25/09/2013 11.30	-23,00	277,97	-16,01	284,07	-7,50	322,03	7,50	293,38
118	09/10/2013 10.30	-24,00	276,97	-17,01	283,07	-8,50	321,03	7,00	292,88
119	14/10/2013 10.30	-23,50	277,47	-15,01	285,07	-7,50	322,03	6,00	291,88
120	25/10/2013 11.30	-22,50	278,47	-14,01	286,07	-6,50	323,03	5,00	290,88



SCHEMA UBICAZIONE

Ubicazione STAZIONE CHIAIA
Tipo Strumento Cella di Carico
Posizione \ \ 1° Ordine Di Tiranti
Data posa in opera 16/05/2011
Data lettura di zero 16/06/2011





TABULATI

Ubicazione STAZIONE CHIAIA

Tipo Strumento Cella di Carico

Posizione \ \ 2° Ordine Di Tiranti

Data posa in opera 02/08/2011

Data lettura di zero 02/08/2011

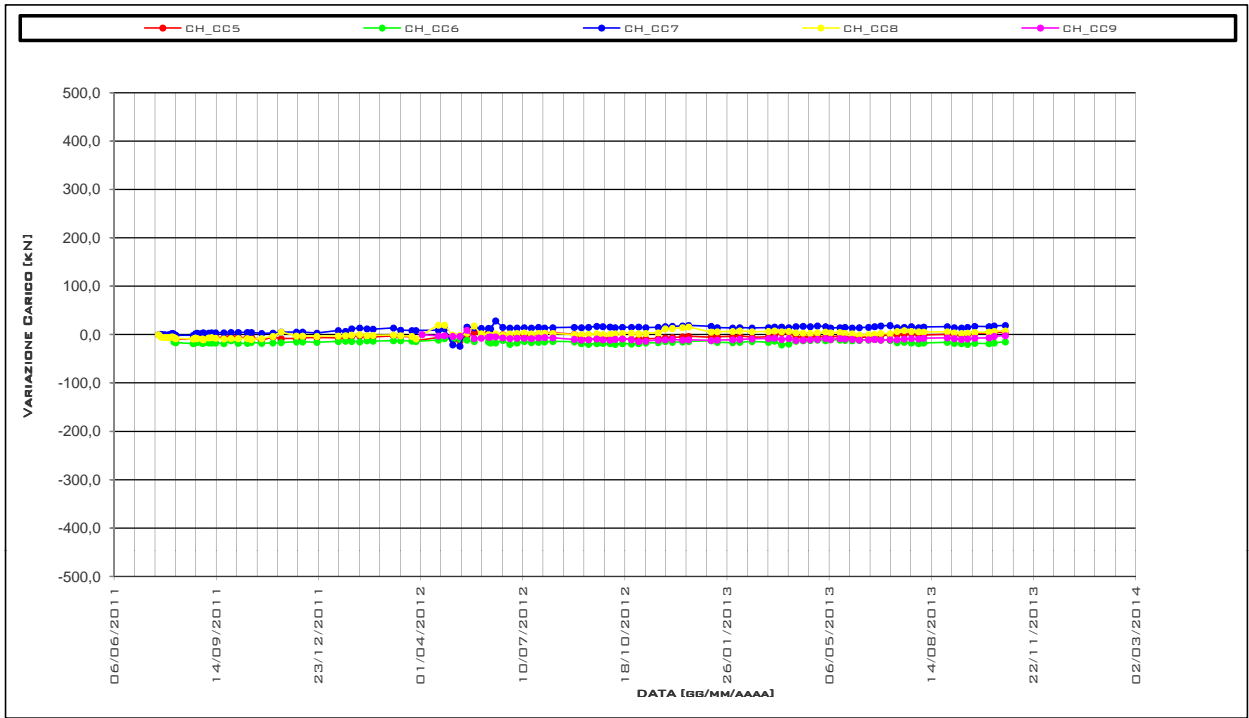
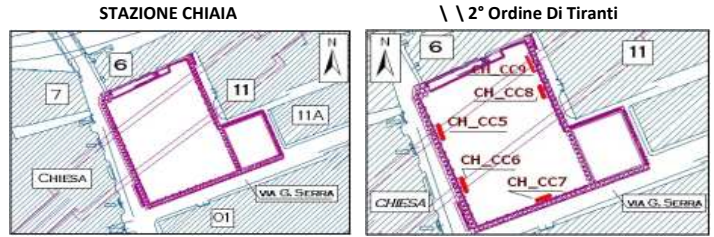
Ultima misura 112 in data 25/10/2013

Letture n°	DATA	CH_CC5		CH_CC6		CH_CC7		CH_CC8		CH_CC9	
		Δ Carico [kN]	Carico [kN]	Δ Carico [kN]	Carico [kN]	Δ Carico [kN]	Carico [kN]	Δ Carico [kN]	Carico [kN]	Δ Carico [kN]	Carico [kN]
59	31/07/2012 10.00	3,00	542,06	-15,00	507,96	13,50	494,93	3,00	364,34	-6,00	395,25
60	08/08/2012 10.30	3,75	542,81	-14,25	508,71	14,25	495,68	2,25	363,59	-6,75	394,50
61	29/08/2012 10.00	0,75	539,81	-15,00	507,96	15,00	496,43	0,00	361,34	-9,75	391,50
62	05/09/2012 10.00	-8,25	530,81	-18,75	504,21	14,25	495,68	0,00	361,34	-11,25	390,00
63	12/09/2012 10.00	-9,75	529,31	-20,25	502,71	15,00	496,43	0,75	362,09	-10,50	390,75
64	20/09/2012 10.00	-9,00	530,06	-18,75	504,21	17,25	498,68	1,50	362,84	-9,00	392,25
65	26/09/2012 10.00	-8,25	530,81	-18,00	504,96	16,50	497,93	0,00	361,34	-10,50	390,75
66	03/10/2012 10.00	-7,50	531,56	-18,75	504,21	15,75	497,18	0,75	362,09	-11,25	390,00
67	08/10/2012 11.00	-9,75	529,31	-20,25	502,71	14,25	495,68	1,50	362,84	-9,75	391,50
68	15/10/2012 11.00	-9,00	530,06	-18,75	504,21	15,00	496,43	2,25	363,59	-9,00	392,25
69	24/10/2012 11.00	-9,75	529,31	-19,50	503,46	15,00	496,43	3,00	364,34	-10,50	390,75
70	31/10/2012 10.00	-8,25	530,81	-18,75	504,21	15,75	497,18	1,50	362,84	-14,25	387,00
71	07/11/2012 11.00	-9,00	530,06	-17,25	505,71	14,25	495,68	2,25	363,59	-13,50	387,75
72	19/11/2012 15.00	-8,25	530,81	-16,50	506,46	15,00	496,43	3,75	365,09	-11,25	390,00
73	26/11/2012 12.00	-6,75	532,31	-14,25	508,71	16,50	497,93	12,00	373,34	-10,50	390,75
74	03/12/2012 11.00	-6,00	533,06	-15,75	507,21	17,25	498,68	12,75	374,08	-9,75	391,50
75	13/12/2012 10.00	-4,50	534,56	-15,00	507,96	18,00	499,43	14,25	375,58	-11,25	390,00
76	19/12/2012 10.00	-3,75	535,31	-14,25	508,71	18,75	500,18	15,75	377,08	-10,50	390,75
77	10/01/2013 10.30	-5,25	533,81	-12,75	510,21	17,25	498,68	5,25	366,59	-12,00	389,25
78	16/01/2013 10.00	-4,50	534,56	-15,75	507,21	14,25	495,68	6,00	367,34	-11,25	390,00
79	31/01/2013 10.00	-3,75	535,31	-16,50	506,46	13,50	494,93	6,75	368,09	-10,50	390,75
80	07/02/2013 10.30	-3,00	536,06	-15,75	507,21	14,25	495,68	7,50	368,84	-9,75	391,50
81	19/02/2013 10.00	-5,25	533,81	-14,25	508,71	13,50	494,93	6,00	367,34	-9,00	392,25
82	07/03/2013 11.00	-4,50	534,56	-15,75	507,21	14,25	495,68	6,75	368,09	-8,25	393,00
83	13/03/2013 11.30	-3,00	536,06	-13,50	509,46	15,75	497,18	7,50	368,84	-7,50	393,75
84	20/03/2013 10.00	3,75	542,81	-21,00	501,96	15,75	497,18	6,00	367,34	-9,75	391,50
85	27/03/2013 10.30	4,50	543,56	-19,50	503,46	14,25	495,68	6,75	368,09	-8,25	393,00
86	03/04/2013 10.00	-5,25	533,81	-13,50	509,46	16,50	497,93	3,75	365,09	-12,00	389,25
87	10/04/2013 10.15	-5,25	533,81	-12,75	510,21	17,25	498,68	3,00	364,34	-11,25	390,00
88	17/04/2013 10.00	-4,50	534,56	-12,00	510,96	16,50	497,93	2,25	363,59	-10,50	390,75
89	24/04/2013 11.00	-3,75	535,31	-11,25	511,71	18,00	499,43	3,75	365,09	-9,75	391,50
90	02/05/2013 10.30	-5,25	533,81	-12,75	510,21	16,50	497,93	5,25	366,59	-8,25	393,00
91	07/05/2013 10.30	-4,50	534,56	-10,50	512,46	13,50	494,93	3,75	365,09	-9,75	391,50
92	16/05/2013 11.30	-3,75	535,31	-11,25	511,71	14,25	495,68	4,50	365,84	-8,25	393,00
93	21/05/2013 10.30	-5,25	533,81	-12,00	510,96	15,00	496,43	2,25	363,59	-9,00	392,25
94	28/05/2013 11.30	-6,75	532,31	-12,75	510,21	13,50	494,93	1,50	362,84	-9,75	391,50
95	04/06/2013 11.00	-6,00	533,06	-12,00	510,96	14,25	495,68	-0,75	360,59	-11,25	390,00
96	13/06/2013 11.30	-4,50	534,56	-11,25	511,71	15,00	496,43	0,00	361,34	-10,50	390,75
97	19/06/2013 11.00	-3,75	535,31	-9,75	513,21	16,50	497,93	0,75	362,09	-9,75	391,50
98	25/06/2013 11.30	-2,25	536,81	-11,25	511,71	18,00	499,43	2,25	363,59	-11,25	390,00
99	04/07/2013 12.30	-0,75	538,31	-12,00	510,96	18,75	500,18	1,50	362,84	-10,50	390,75
100	11/07/2013 11.00	0,00	539,06	-16,50	506,46	14,25	495,68	6,75	368,09	-10,50	390,75
101	18/07/2013 10.00	0,75	539,81	-15,75	507,21	15,00	496,43	8,25	369,59	-9,00	392,25
102	25/07/2013 11.00	1,50	540,56	-17,25	505,71	16,50	497,93	6,75	368,09	-8,25	393,00
103	01/08/2013 12.30	-0,75	538,31	-18,75	504,21	14,25	495,68	6,00	367,34	-9,00	392,25
104	06/08/2013 12.30	-0,75	538,31	-17,25	505,71	15,75	497,18	5,25	366,59	-7,50	393,75
105	29/08/2013 12.30	0,75	539,81	-15,75	507,21	16,50	497,93	6,00	367,34	-6,75	394,50
106	05/09/2013 10.30	0,00	539,06	-18,00	504,96	14,25	495,68	3,75	365,09	-8,25	393,00
107	12/09/2013 11.00	-0,75	538,31	-18,75	504,21	13,50	494,93	2,25	363,59	-9,75	391,50
108	18/09/2013 10.30	0,00	539,06	-20,25	502,71	15,00	496,43	3,00	364,34	-9,00	392,25
109	25/09/2013 10.30	2,25	541,31	-18,00	504,96	17,25	498,68	4,50	365,84	-7,50	393,75
110	09/10/2013 10.30	3,75	542,81	-18,75	504,21	16,50	497,93	5,25	366,59	-6,75	394,50
111	14/10/2013 10.00	5,25	544,31	-17,25	505,71	18,00	499,43	6,75	368,09	-3,75	397,50
112	25/10/2013 10.00	4,50	543,56	-15,00	507,96	18,75	500,18	7,50	368,84	-2,25	399,00



SCHEMA UBICAZIONE

Ubicazione STAZIONE CHIAIA
Tipo Strumento Cella di Carico
Posizione \ \ 2° Ordine Di Tiranti
Data posa in opera 02/08/2011
Data lettura di zero 02/08/2011




TABULATI
Ubicazione STAZIONE CHIAIA

Tipo Strumento Cella di Carico

Posizione \ \ Puntoni

Data posa in opera 14/09/2011

Data lettura di zero 14/09/2011

**Ultima
misura**

93

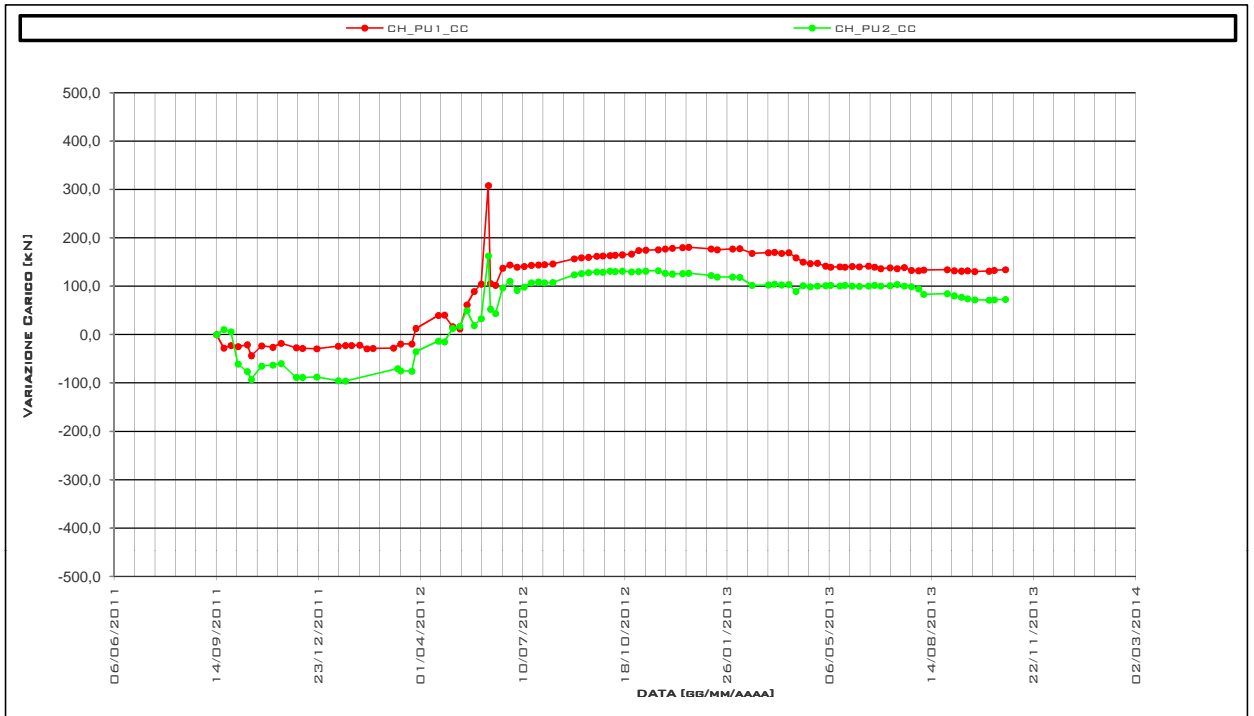
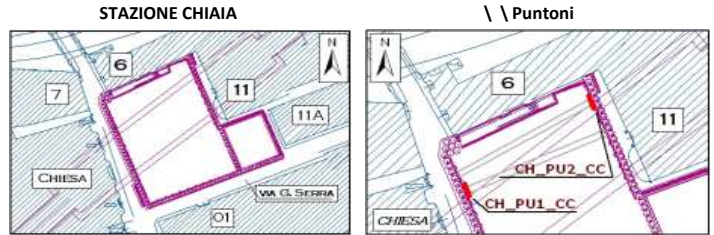
in data
25/10/2013


Letture n°	DATA	CH_PU1_CC		CH_PU2_CC	
		Δ Carico [kN]	Carico [kN]	Δ Carico [kN]	Carico [kN]
40	31/07/2012 10.00	144,72	447,94	107,25	683,29
41	08/08/2012 10.30	146,22	449,44	108,00	684,04
42	29/08/2012 10.00	156,72	459,93	123,75	699,79
43	05/09/2012 10.00	158,97	462,18	126,00	702,04
44	12/09/2012 10.00	159,72	462,93	128,25	704,29
45	20/09/2012 10.00	161,97	465,18	129,75	705,79
46	26/09/2012 10.00	162,72	465,93	129,00	705,04
47	03/10/2012 10.00	163,47	466,68	131,25	707,29
48	08/10/2012 11.00	164,22	467,43	130,50	706,54
49	15/10/2012 11.00	164,97	468,18	131,25	707,29
50	24/10/2012 11.00	166,47	469,68	129,75	705,79
51	31/10/2012 10.00	173,97	477,18	130,50	706,54
52	07/11/2012 11.00	174,72	477,93	131,25	707,29
53	19/11/2012 15.00	175,47	478,68	132,00	708,04
54	26/11/2012 11.00	176,97	480,18	126,75	702,79
55	03/12/2012 11.00	178,47	481,68	125,25	701,29
56	13/12/2012 10.30	179,97	483,18	126,00	702,04
57	19/12/2012 10.00	180,72	483,93	126,75	702,79
58	10/01/2013 10.30	176,97	480,18	122,25	698,29
59	16/01/2013 10.00	175,47	478,68	119,25	695,29
60	31/01/2013 10.00	176,97	480,18	119,25	695,29
61	07/02/2013 10.30	177,72	480,93	118,50	694,54
62	19/02/2013 10.00	167,97	471,18	102,00	678,04
63	07/03/2013 11.00	169,47	472,68	102,75	678,79
64	13/03/2013 11.00	170,22	473,43	104,25	680,29
65	20/03/2013 10.00	167,97	471,18	102,75	678,79
66	27/03/2013 11.00	169,47	472,68	103,50	679,54
67	03/04/2013 11.00	158,97	462,18	89,25	665,29
68	10/04/2013 10.30	149,97	453,19	101,25	677,29
69	17/04/2013 10.00	146,97	450,19	99,00	675,04
70	24/04/2013 11.00	147,72	450,94	100,50	676,54
71	02/05/2013 10.30	141,72	444,94	101,25	677,29
72	07/05/2013 10.30	139,47	442,69	102,00	678,04
73	16/05/2013 10.30	140,22	443,44	100,50	676,54
74	21/05/2013 10.30	139,47	442,69	102,00	678,04
75	28/05/2013 11.30	140,97	444,19	100,50	676,54
76	04/06/2013 12.00	140,22	443,44	99,75	675,79
77	13/06/2013 11.00	141,72	444,94	100,50	676,54
78	19/06/2013 11.00	139,47	442,69	102,00	678,04
79	25/06/2013 11.30	136,47	439,69	100,50	676,54
80	04/07/2013 12.30	137,97	441,19	101,25	677,29
81	11/07/2013 12.30	136,47	439,69	103,50	679,54
82	18/07/2013 11.30	138,72	441,94	100,50	676,54
83	25/07/2013 11.00	132,73	435,94	99,00	675,04
84	01/08/2013 12.30	131,98	435,19	94,50	670,54
85	06/08/2013 12.30	133,48	436,69	83,25	659,29
86	29/08/2013 12.30	134,22	437,44	84,75	660,79
87	05/09/2013 10.30	131,98	435,19	80,25	656,29
88	12/09/2013 11.00	131,23	434,44	77,25	653,29
89	18/09/2013 10.30	131,98	435,19	74,25	650,29
90	25/09/2013 10.30	130,48	433,69	72,00	648,04
91	09/10/2013 11.30	131,23	434,44	71,25	647,29
92	14/10/2013 11.30	132,73	435,94	72,00	648,04
93	25/10/2013 11.30	134,22	437,44	72,75	648,79



SCHEMA UBICAZIONE

Ubicazione STAZIONE CHIAIA
Tipo Strumento Cella di Carico
Posizione \ \ Puntoni
Data posa in opera 14/09/2011
Data lettura di zero 14/09/2011



 <p>Ansaldo STS A Finmeccanica Company</p>	<p>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</p> <p><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO</i> <i>REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C 126 Data: 25/10/13 Metropolitana di Napoli A.T.I. LM6 TreEsse Engineering S.r.l.</p>
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10. MISURE TOPOGRAFICHE – MIRE OTTICHE

Le Mire Ottiche, installate in prossimità delle travi di distribuzione dei carichi, che collegano i tiranti in testa, permettono di controllare in tali aree l'influenza delle lavorazioni, registrando eventuali variazioni di quota e spostamenti sul piano orizzontale. La misurazione verrà effettuata tramite Teodolite dall'ATI.


 <p>Ansaldo STS A Finmeccanica Company</p>	<p>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</p> <p><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C I 26 Data: 25/10/13 Metropolitana di Napoli A.T.I. LM6 TreEsse Engineering S.r.l.</p>
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Tabelle riepilogative per le Mire Ottiche installate in cantiere. Tabella Mire Ottiche Primo Ordine di Tiranti

NOME	TIPOLOGIA STRUMENTO	DATA INSTALLAZIONE	DISPONIBILITA' LETTURA			NOTE
			DATA LETTURA DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
CH_MO1	M. OTTICHE		13/09/11			
CH_MO2	M. OTTICHE		13/09/11			
CH_MO3	M. OTTICHE		15/07/11			
CH_MO4	M. OTTICHE		15/07/11			
CH_MO5	M. OTTICHE		15/07/11			
CH_MO6	M. OTTICHE		15/07/11			
CH_MO7	M. OTTICHE		15/07/11			
CH_MO8	M. OTTICHE		15/07/11			
CH_MO9	M. OTTICHE		15/07/11			
CH_MO10	M. OTTICHE		15/07/11			
CH_MO11	M. OTTICHE		15/07/11			
CH_MO12	M. OTTICHE		15/07/11			
CH_MO13	M. OTTICHE		15/07/11			
CH_MO14	M. OTTICHE		19/07/11			
CH_MO15	M. OTTICHE		06/09/11			
CH_MO16	M. OTTICHE		06/09/11			

Tabella Mire Ottiche Secondo Ordine di Tiranti

NOME	TIPOLOGIA STRUMENTO	DATA INSTALLAZIONE	DISPONIBILITA' LETTURA			NOTE
			DATA LETTURA DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
CH_MO17	M. OTTICHE		17/04/12			
CH_MO18	M. OTTICHE		17/04/12			
CH_MO19	M. OTTICHE		15/11/11			
CH_MO20	M. OTTICHE		15/11/11			
CH_MO21	M. OTTICHE		02/08/11			
CH_MO22	M. OTTICHE		02/08/11			
CH_MO23	M. OTTICHE		02/08/11			
CH_MO24	M. OTTICHE		02/08/11			
CH_MO25	M. OTTICHE		25/07/11			
CH_MO26	M. OTTICHE		25/07/11			
CH_MO27	M. OTTICHE		24/08/11			
CH_MO28	M. OTTICHE		24/08/11			
CH_MO29	M. OTTICHE		24/08/11			
CH_MO30	M. OTTICHE		24/08/11			
CH_MO31	M. OTTICHE		29/11/11			
CH_MO32	M. OTTICHE		29/11/11			


 <p>Ansaldo STS A Finmeccanica Company</p>	<p>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</p> <p><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C I 26 Data: 25/10/13 Metropolitana di Napoli A.T.I. LM6 TreEsse Engineering S.r.l.</p>
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Tabella Mire Ottiche Terzo e Quarto Ordine - Tufo

NOME	TIPOLOGIA STRUMENTO	DATA INSTALLAZIONE	DISPONIBILITA' LETTURA			NOTE
			DATA LETTURA DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
CH_MO33	M. OTTICHE		12/07/12			
CH_MO34	M. OTTICHE		18/07/12			
CH_MO35	M. OTTICHE		13/09/12			
CH_MO36	M. OTTICHE		13/09/12		27/02/13	
CH_MO36A	M. OTTICHE		28/03/13			Sostituisce CH_MO36
CH_MO37	M. OTTICHE		18/09/12		13/06/13	
CH_MO37A	M. OTTICHE		01/07/13			Sostituisce CH_MO37
CH_MO38	M. OTTICHE		07/02/13			
CH_MO39	M. OTTICHE		07/02/13			
CH_MO40	M. OTTICHE		14/02/13			
CH_MO41	M. OTTICHE		05/03/13			
CH_MO42	M. OTTICHE		05/03/13			
CH_MO43	M. OTTICHE		05/03/13			
CH_MO44	M. OTTICHE		05/03/13			
CH_MO45	M. OTTICHE		28/03/13			
CH_MO46	M. OTTICHE		28/03/13			
CH_MO47	M. OTTICHE		28/03/13			
CH_MO48	M. OTTICHE		28/03/13			
CH_MO49	M. OTTICHE		28/03/13			
CH_MO50	M. OTTICHE		28/03/13			
CH_MO51	M. OTTICHE		03/04/13			
CH_MO52	M. OTTICHE		28/03/13			
CH_MO53	M. OTTICHE		28/03/13			
CH_MO54	M. OTTICHE		28/03/13			
CH_MO55	M. OTTICHE		28/03/13			
CH_MO56	M. OTTICHE		28/03/13			
CH_MO57	M. OTTICHE		28/03/13			
CH_MO58	M. OTTICHE		28/03/13			
CH_MO59	M. OTTICHE		28/03/13			
CH_MO60	M. OTTICHE		28/03/13			
CH_MO61	M. OTTICHE		28/03/13			
CH_MO62	M. OTTICHE		28/03/13			
CH_MO63	M. OTTICHE		28/03/13			
CH_MO64	M. OTTICHE		28/03/13			



LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO

OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO REPORT DELLE MISURE - STAZIONE CHIAIA

LM6 7FX 2C I 26
Data: 25/10/13
Metropolitana di Napoli A.T.I. LM6
TreEsse Engineering S.r.l.



Ubicazione STAZIONE CHIAIA

Opera \ \ Ordine di Tiranti \ 01-04

Tipo Strumento Mire Ottiche

Data posa in opera 13/09/2011

Data lettura di zero 13/09/2011

Ultima Misura 95 in data 24/10/2013

Lett. n°	DATA	CH_M01					CH_M02					CH_M03					CH_M04				
		Temp. Media [C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]	Temp. Media [C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]	Temp. Media [C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]	Temp. Media [C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]
5	02/08/2011 08.00																				
6	24/08/2011 08.00																				
7	06/09/2011 08.00																				
8	13/09/2011 08.00																				
9	13/09/2011 08.01	25.0	34,7	0,0	0,0	0,0	25.0	34,7	0,0	0,0	0,0	24.0	33,0	2,0	-1,0	-1,0	24.0	32,9	1,0	-1,0	1,0
10	20/09/2011 08.00	18.0	34,7	-1,0	0,0	0,0	18.0	34,7	0,0	-1,0	-1,0	18.0	33,0	2,0	-1,0	-1,0	18.0	32,9	2,0	-1,0	-1,0
11	27/09/2011 08.00	20.0	34,7	-3,0	1,0	1,0	20.0	34,7	0,0	-1,0	0,0	20.0	33,0	1,0	-1,0	0,0	20.0	32,9	1,0	-1,0	1,0
12	04/10/2011 08.00	18.0	34,7	-1,0	1,0	-1,0	18.0	34,7	0,0	0,0	-1,0	18.0	33,0	2,0	-1,0	-2,0	18.0	32,9	1,0	-1,0	0,0
13	11/10/2011 08.00	15.0	34,7	-2,0	1,0	1,0	15.0	34,7	0,0	0,0	0,0	15.0	33,0	2,0	0,0	-1,0	15.0	32,9	1,0	-1,0	0,0
14	18/10/2011 08.00	12.0	34,7	0,0	0,0	-1,0	12.0	34,7	0,0	0,0	-1,0	12.0	33,0	2,0	0,0	-2,0	12.0	32,9	2,0	0,0	0,0
15	25/10/2011 08.00	13.0	34,7	0,0	1,0	0,0	13.0	34,7	1,0	0,0	0,0	13.0	33,0	3,0	-1,0	-3,0	13.0	32,9	2,0	-2,0	-1,0
16	02/11/2011 10.00	18.0	34,7	0,0	0,0	1,0	18.0	34,7	0,0	0,0	0,0	18.0	33,0	2,0	-1,0	-1,0	18.0	32,9	2,0	-1,0	0,0
17	08/11/2011 08.00	13.0	34,7	-1,0	1,0	0,0	13.0	34,7	0,0	-1,0	-1,0	13.0	33,0	2,0	-1,0	-2,0	13.0	32,9	2,0	-1,0	0,0
18	15/11/2011 08.00	9.0	34,7	0,0	0,0	-2,0	9.0	34,7	0,0	-1,0	-1,0	9.0	33,0	1,0	-1,0	-2,0	9.0	32,9	2,0	-1,0	-1,0
19	22/11/2011 08.00	14.0	34,7	0,0	0,0	-2,0	14.0	34,7	0,0	-1,0	-1,0	14.0	33,0	2,0	-2,0	-2,0	14.0	32,9	1,0	-2,0	0,0
20	29/11/2011 08.00	10.0	34,7	0,0	1,0	-1,0	10.0	34,7	1,0	-1,0	-2,0	10.0	33,0	2,0	-1,0	-3,0	10.0	32,9	2,0	-1,0	0,0
21	06/12/2011 08.00	14.0	34,7	-1,0	1,0	2,0	14.0	34,7	0,0	-3,0	0,0	14.0	33,0	1,0	-3,0	-2,0	14.0	32,9	1,0	-3,0	0,0
22	13/12/2011 08.00	13.0	34,7	0,0	2,0	1,0	13.0	34,7	0,0	-2,0	-2,0	13.0	33,0	2,0	-1,0	-3,0	13.0	32,9	1,0	-1,0	-1,0
23	20/12/2011 08.00	4.0	34,7	0,0	1,0	0,0	4.0	34,7	0,0	-2,0	-2,0	4.0	33,0	2,0	-2,0	-2,0	4.0	32,9	1,0	-2,0	0,0
24	10/01/2012 08.00	4.0	34,7	0,0	1,0	-2,0	4.0	34,7	1,0	-1,0	-2,0	4.0	33,0	2,0	-1,0	-2,0	4.0	32,9	1,0	-1,0	0,0
25	24/01/2012 08.00	10.0	34,7	1,0	1,0	0,0	10.0	34,7	1,0	-2,0	-1,0	10.0	33,0	2,0	-2,0	-2,0	10.0	32,9	2,0	-2,0	0,0
26	08/02/2012 08.00	5.0	34,7	1,0	1,0	-1,0	5.0	34,7	1,0	-2,0	-2,0	5.0	33,0	2,0	-2,0	-3,0	5.0	32,9	2,0	-3,0	-1,0
27	13/03/2012 08.00	11.0	34,7	1,0	-1,0	-3,0	11.0	34,7	2,0	-2,0	-3,0	11.0	33,0	2,0	-2,0	-3,0	11.0	32,9	2,0	-3,0	-1,0
28	26/03/2012 08.00	13.0	34,7	0,0	-2,0	-2,0	13.0	34,7	0,0	-2,0	-3,0	13.0	33,0	2,0	-1,0	-2,0	13.0	32,9	1,0	-3,0	-1,0
29	05/04/2012 08.00	16.0	34,7	1,0	-1,0	-1,0	16.0	34,7	1,0	-2,0	-2,0	16.0	33,0	2,0	-1,0	-3,0	16.0	32,9	3,0	-2,0	-1,0
30	17/04/2012 08.00	11.0	34,7	0,0	-3,0	-3,0	11.0	34,7	1,0	-4,0	-2,0	11.0	33,0	2,0	-2,0	-2,0	11.0	32,9	2,0	-3,0	-1,0
31	02/05/2012 10.30	18.0	34,7	0,0	-1,0	0,0	18.0	34,7	2,0	-2,0	0,0	18.0	33,0	3,0	-2,0	-2,0	18.0	32,9	3,0	-3,0	0,0
32	15/05/2012 08.30	13.0	34,7	0,0	-1,0	0,0	13.0	34,7	1,0	-3,0	0,0	13.0	33,0	3,0	-3,0	-2,0	13.0	32,9	3,0	-3,0	0,0
33	23/05/2012 17.30	20.0	34,7	1,0	-1,0	-2,0	20.0	34,7	2,0	-2,0	-2,0	20.0	33,0	3,0	-1,0	-3,0	20.0	32,9	3,0	-1,0	-2,0
34	30/05/2012 08.30	18.0	34,7	1,0	0,0	1,0	18.0	34,7	1,0	0,0	0,0	18.0	33,0	4,0	-1,0	-2,0	18.0	32,9	3,0	-2,0	-1,0
35	06/06/2012 16.30	25.0	34,7	1,0	0,0	0,0	25.0	34,7	1,0	-2,0	1,0	25.0	33,0	3,0	-3,0	-2,0	25.0	32,9	3,0	-3,0	1,0
36	13/06/2012 08.30	20.0	34,7	1,0	1,0	0,0	20.0	34,7	1,0	0,0	-1,0	20.0	33,0	3,0	-1,0	-2,0	20.0	32,9	3,0	-2,0	-1,0
37	20/06/2012 16.30	31.0	34,7	2,0	1,0	0,0	31.0	34,7	2,0	0,0	0,0	31.0	33,0	3,0	-1,0	-3,0	31.0	32,9	3,0	-3,0	-1,0
38	28/06/2012 08.30	28.0	34,7	2,0	0,0	0,0	28.0	34,7	1,0	-1,0	-1,0	28.0	33,0	3,0	-2,0	-2,0	28.0	32,9	2,0	-2,0	-1,0
39	04/07/2012 19.30	29.0	34,7	2,0	0,0	0,0	29.0	34,7	2,0	0,0	0,0	29.0	33,0	3,0	-2,0	-2,0	29.0	32,9	3,0	-2,0	-1,0
40	12/07/2012 08.30	25.0	34,7	1,0	2,0	1,0	25.0	34,7	2,0	1,0	1,0	25.0	33,0	3,0	-1,0	-2,0	25.0	32,9	2,0	-1,0	-1,0
41	18/07/2012 16.30	34.0	34,7	2,0	0,0	0,0	34.0	34,7	2,0	-1,0	-1,0	34.0	33,0	4,0	-2,0	-3,0	34.0	32,9	3,0	-2,0	-1,0
42	24/07/2012 09.00	23.0	34,7	0,0	0,0	1,0	23.0	34,7	0,0	-1,0	0,0	23.0	33,0	2,0	-2,0	-3,0	23.0	32,9	2,0	-1,0	-1,0
43	01/08/2012 09.00	26.0	34,7	0,0	1,0	1,0	26.0	34,7	1,0	-1,0	0,0	26.0	33,0	2,0	-1,0	-2,0	26.0	32,9	1,0	0,0	0,0
44	09/08/2012 08.00	26.0	34,7	1,0	0,0	-1,0	26.0	34,7	2,0	0,0	0,0	26.0	33,0	3,0	-2,0	-3,0	26.0	32,9	3,0	-3,0	-1,0
45	29/08/2012 16.00	30.0	34,7	1,0	1,0	1,0	30.0	34,7	2,0	0,0	0,0	30.0	33,0	3,0	-1,0	-2,0	30.0	32,9	2,0	-2,0	-1,0
46	13/09/2012 15.00	22.0	34,7	1,0	0,0	0,0	22.0	34,7	2,0	-1,0	-1,0	22.0	33,0	3,0	-2,0	-2,0	22.0	32,9	3,0	-2,0	-1,0
47	18/09/2012 08.00	19.0	34,7	1,0	0,0	0,0	19.0	34,7	2,0	0,0	0,0	19.0	33,0	3,0	-2,0	-2,0	19.0	32,9	3,0	-1,0	0,0
48	26/09/2012 15.00	30.0	34,7	2,0	-1,0	-1,0	30.0	34,7	2,0	-1,0	0,0	30.0	33,0	4,0	-2,0	-3,0	30.0	32,9	4,0	-4,0	-2,0
49	04/10/2012 09.00	18.0	34,7	2,0	0,0	0,0	18.0	34,7	2,0	-1,0	-1,0	18.0	33,0	3,0	-3,0	-2,0	18.0	32,9	3,0	-3,0	-1,0
50	17/10/2012 08.30	14.0	34,7	2,0	-1,0	-1,0	14.0	34,7	2,0	-3,0	0,0	14.0	33,0	4,0	-4,0	-2,0	14.0	32,9	3,0	-3,0	0,0
51	07/11/2012 08.30	14.0	34,7	0,0	-2,0	0,0	14.0	34,7	1,0	-2,0	-2,0	14.0	33,0	2,0	-2,0	-3,0	14.0	32,9	2,0	-3,0	-1,0
52	27/11/2012 08.30	11.0	34,7	2,0	-2,0	-1,0	11.0	34,7	2,0	-3,0	-2,0	11.0	33,0	3,0	-3,0	-4,0	11.0	32,9	3,0	-4,0	-2,0
53	17/12/2012 08.30	13.0	34,7	0,0	0,0	0,0	13.0	34,7	0,0	-3,0	-2,0	13.0	33,0	2,0	-3,0	-3,0	13.0	32,9	2,0	-3,0	-1,0
54	09/01/2013 08.00	10.0	34,7	0,0	-1,0	-1,0	10.0	34,7	1,0	-3,0	-1,0	10.0	33,0	2,0	-3,0	-2,0	10.0	32,9	2,0	-5,0	-1,0
55	29/01/2013 08.00	8.0	34,7	1,0	-1,0	-2,0	8.0	34,7	1,0	-2,0	-1,0	8.0	33,0	2,0	-2,0	-3,0	8.0	32,9	2,0	-3,0	-1,0
56	07/02/2013 15.00	8.0	34,7	1,0	0,0	-1,0	8.0	34,7	3,0	-2,0	-1,0	8.0	33,0	4,0	-2,0	-3,0	8.0	32,9	3,0	-3,0	0,0
57	14/02/2013 08.00	6.0	34,7	0,0	-1,0	-1,0	6.0	34,7	1,0	-3,0	-2,0	6.0	33,0	2,0	-4,0	-3,0	6.0	32,9	2,0	-4,0	-2,0
58	19/02/2013 15.00	12.0	34,7	1,0	-3,0	-2,0	12.0	34,7	1,0	-4,0	-3,0	12.0	33,0	2,0	-4,0	-4,0	12.0	32,9	2,0	-3,0	-2,0
59	27/02/2013 08.00	6.0	34,7	1,0	-1,0	-2,0	6.0	34,7	2,0	-3,0	-3,0	6.0	33,0	3,0	-4,0	-4,0	6.0	32,9	2,0	-3,0	-1,0
60	05/03/2013 10.00	12.0	34,7	0,0	0,0	-1,0	12.0	34,7	1,0	-2,0	-2,0	12.0	33,0	2,0	-2,0	-3,0	12.0	32,9	2,0	-3,0	-1,0
61	12/03/2013 08.00	10.0	34,7	2,0	-1,0	-1,0	10.0	34,7	2,0	-2,0	-1,0	10.0	33,0	3,0	-2,0	-2,0	10.0	32,9	3,0	-2,0	-1,0
62	19/03/2013 16.00	16.0	34,7	1,0	-1,0	-3,0	16.0	34,7	3,0	-2,0	-2,0	16.0	33,0	3,0	-3,0	-3,0	16.0	32,9	2,0	-2,0	-1,0
63	26/03/2013 08.00	13.0	34,7	1,0	0,0	-2,0	13.0	34,7	1,0	-1,0	-3,0	13.0	33,0	3,0	-2,0	-3,0	13.0	32,9	2,0	-3,0	-1,0
64	28/03/2013 11.00	15.0	34,7	2,0	-2,0	-2,0	15.0	3													



Ubicazione STAZIONE CHIAIA
Opera \ \ 1 Ordine di Tiranti \ 01-
Tipo Strumento Mire Ottiche
Data posa in opera 13/09/2011
Data lettura di zero 13/09/2011

UBICAZIONE

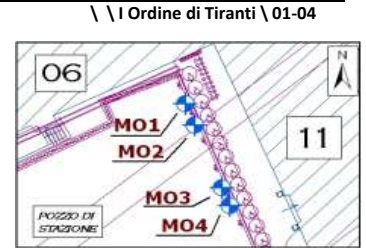


GRAFICO QUOTA

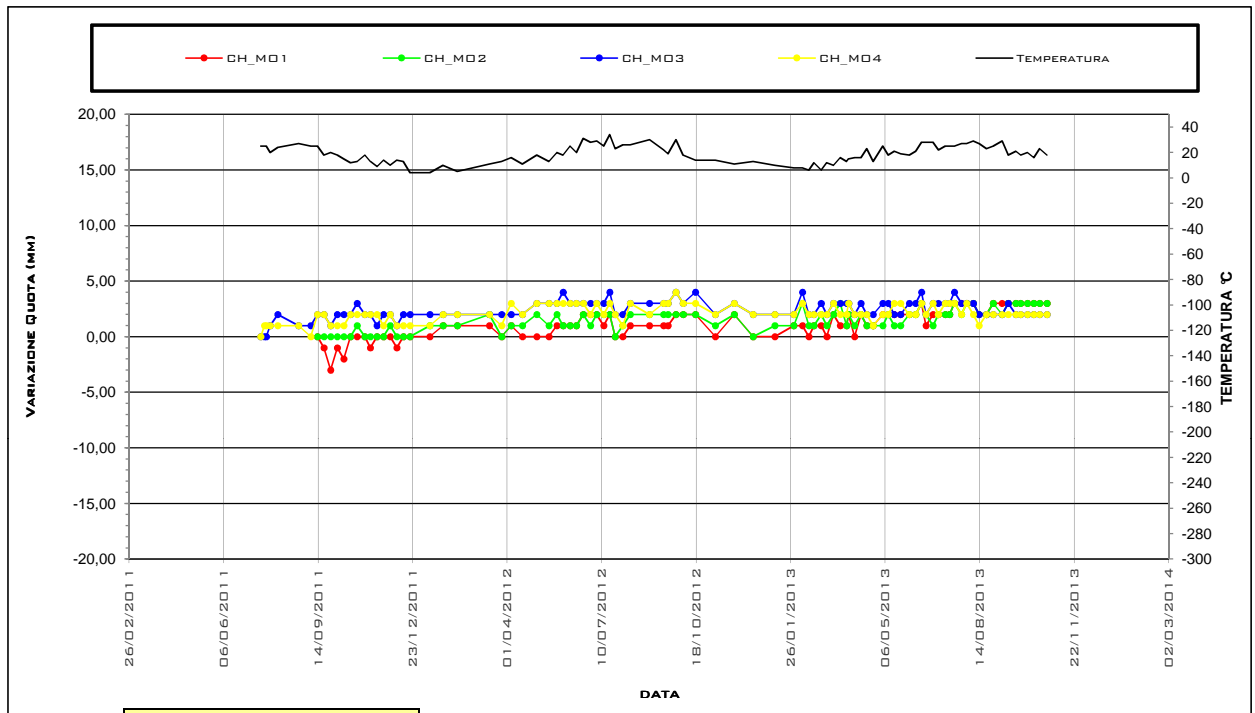
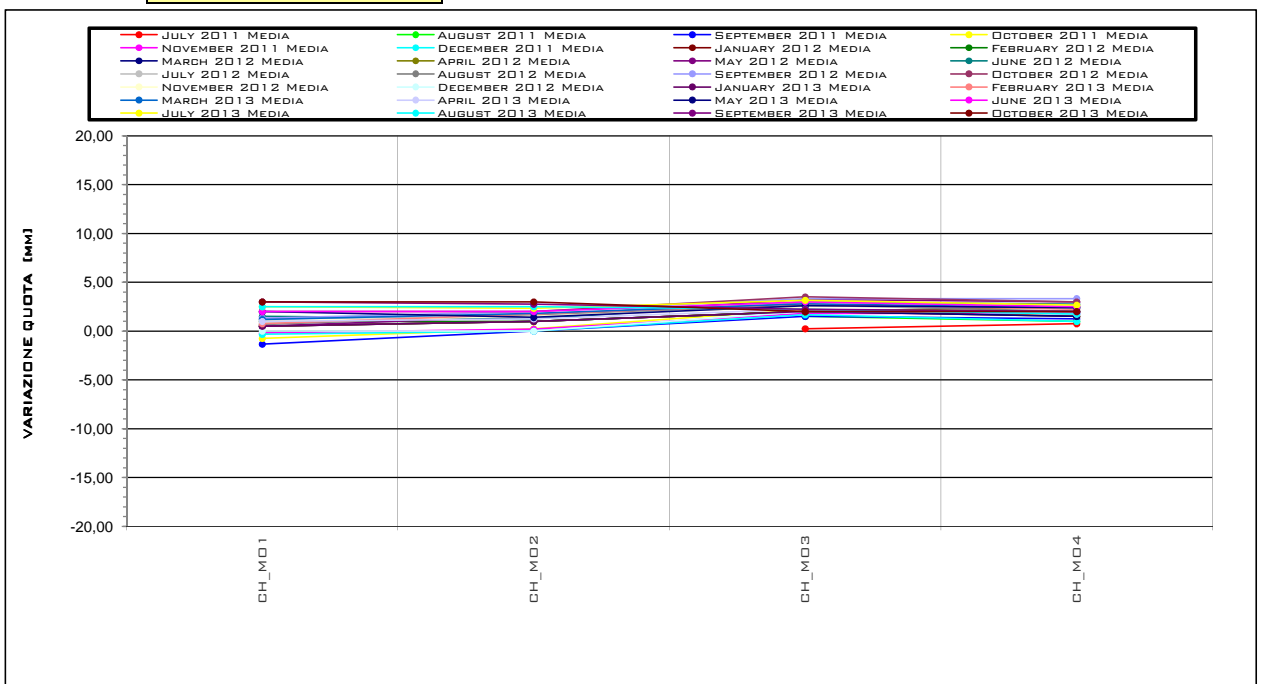


GRAFICO ISOCRONE





Ubicazione STAZIONE CHIAIA
Opera \ \ 1 Ordine di Tiranti \ 01-
Tipo Strumento Mire Ottiche
Data posa in opera 13/09/2011
Data lettura di zero 13/09/2011

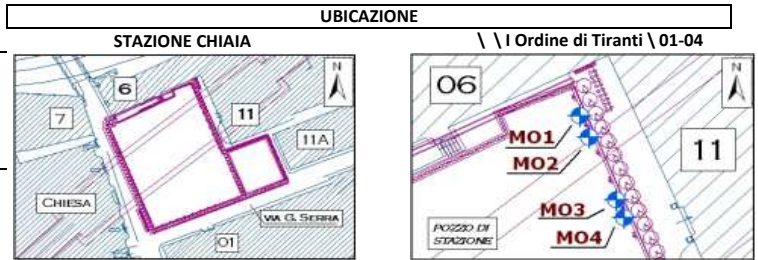


GRAFICO EST

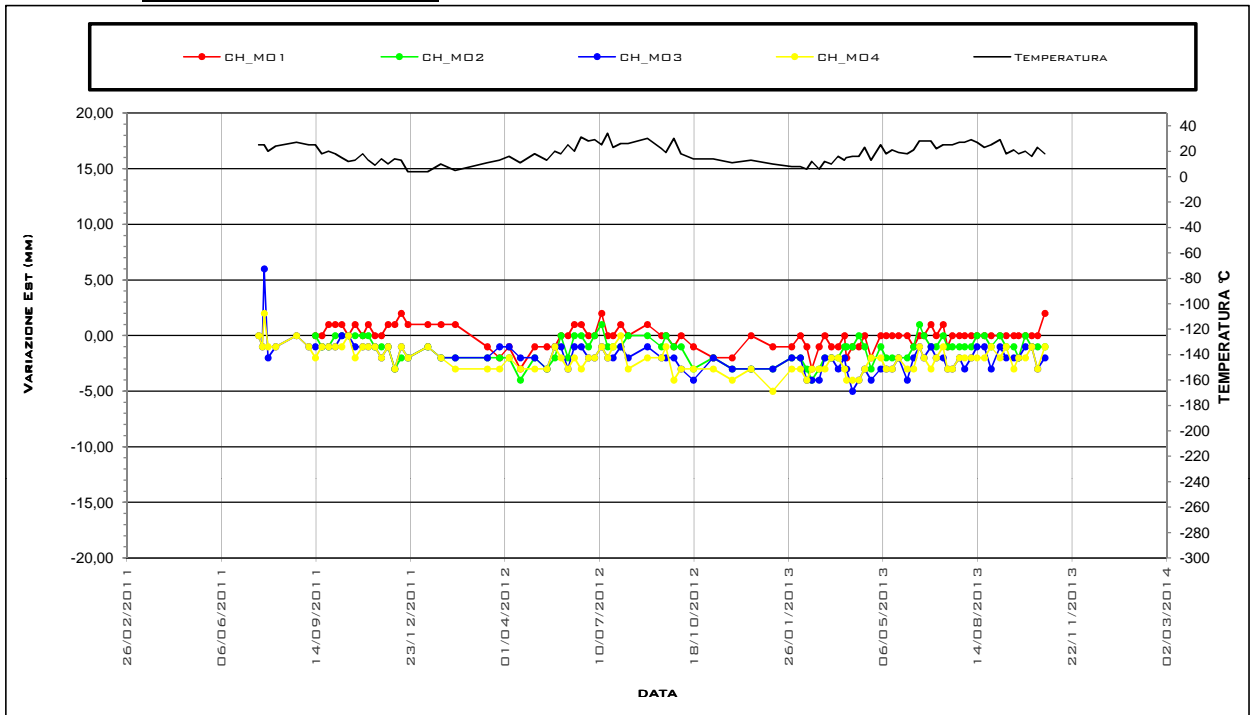
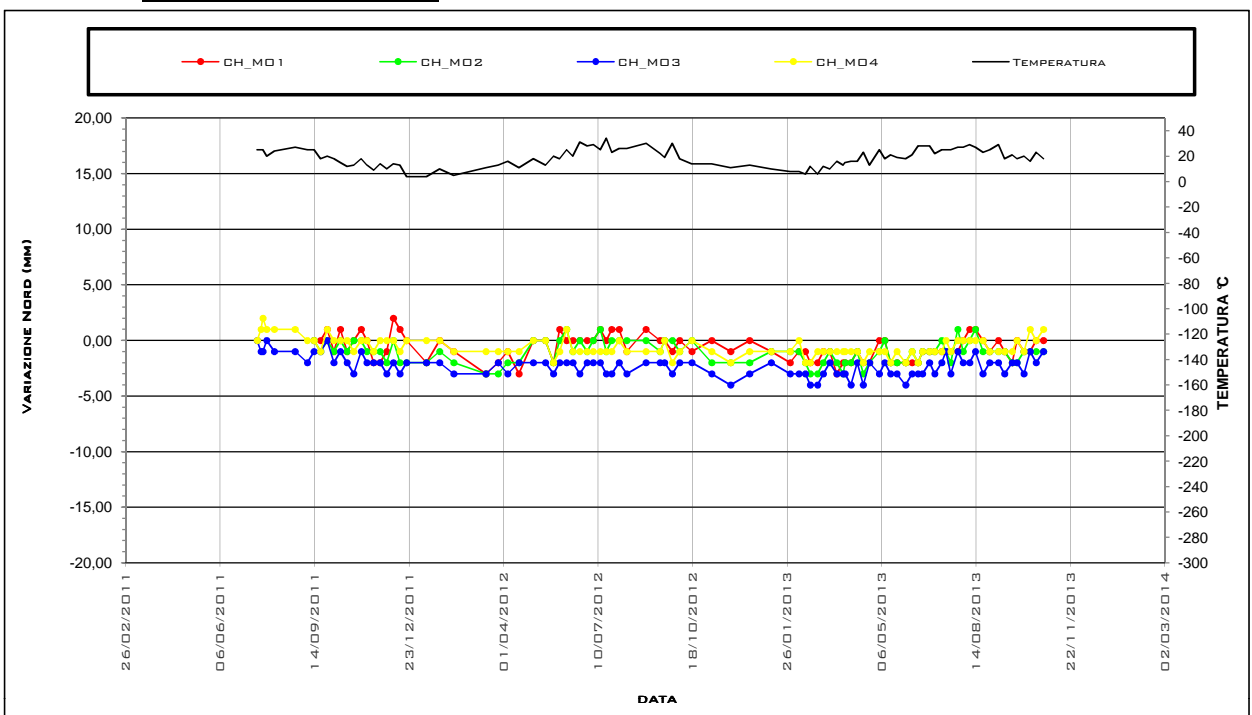


GRAFICO NORD





Ubicazione STAZIONE CHIAIA

Opera \ \ Ordine di Tiranti \ 05-08

Tipo Strumento Mire Ottiche

Data posa in opera 15/07/2011

Data lettura di zero 15/07/2011

Ultima Misura 94 in data 24/10/2013

Letta. n°	DATA	CH_M05					CH_M06					CH_M07					CH_M08				
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4	25/07/2011 08.00	20,0	33,2	0,0	-5,0	0,0	20,0	33,2	1,0	-4,0	0,0	20,0	33,1	0,0	-3,0	-3,0	20,0	33,1	0,0	-3,0	-2,0
5	02/08/2011 08.00	24,0	33,2	2,0	-4,0	0,0	24,0	33,2	3,0	-3,0	1,0	24,0	33,1	1,0	-1,0	1,0	24,0	33,1	0,0	-1,0	0,0
6	24/08/2011 08.00	27,0	33,2	1,0	-3,0	1,0	27,0	33,2	1,0	-3,0	2,0	27,0	33,1	1,0	-2,0	0,0	27,0	33,1	0,0	-3,0	2,0
7	06/09/2011 08.00	25,0	33,2	1,0	-4,0	0,0	25,0	33,2	2,0	-4,0	1,0	25,0	33,1	-1,0	-3,0	1,0	25,0	33,1	0,0	-3,0	0,0
8	13/09/2011 08.00	25,0	33,2	2,0	-3,0	1,0	25,0	33,2	2,0	-3,0	3,0	25,0	33,1	1,0	-2,0	-1,0	25,0	33,1	2,0	-3,0	0,0
9	20/09/2011 08.00	18,0	33,2	1,0	-5,0	1,0	18,0	33,2	1,0	-4,0	1,0	18,0	33,1	0,0	-4,0	-1,0	18,0	33,1	0,0	-4,0	-1,0
10	27/09/2011 08.00	20,0	33,2	1,0	-3,0	1,0	20,0	33,2	3,0	-4,0	2,0	20,0	33,1	1,0	-4,0	1,0	20,0	33,1	2,0	-4,0	1,0
11	04/10/2011 08.00	18,0	33,2	1,0	-2,0	1,0	18,0	33,2	1,0	-1,0	0,0	18,0	33,1	1,0	-1,0	2,0	18,0	33,1	1,0	-2,0	1,0
12	11/10/2011 08.00	15,0	33,2	2,0	-3,0	2,0	15,0	33,2	2,0	-2,0	3,0	15,0	33,1	1,0	-3,0	0,0	15,0	33,1	1,0	-3,0	-1,0
13	18/10/2011 08.00	12,0	33,2	3,0	-3,0	0,0	12,0	33,2	2,0	-2,0	0,0	12,0	33,1	0,0	-3,0	0,0	12,0	33,1	1,0	-3,0	1,0
14	25/10/2011 08.00	13,0	33,2	2,0	-4,0	1,0	13,0	33,2	3,0	-3,0	1,0	13,0	33,1	1,0	-3,0	-1,0	13,0	33,1	2,0	-3,0	0,0
15	02/11/2011 08.00	18,0	33,2	3,0	-4,0	1,0	18,0	33,2	3,0	-4,0	1,0	18,0	33,1	1,0	-3,0	0,0	18,0	33,1	1,0	-3,0	0,0
16	08/11/2011 08.00	13,0	33,2	2,0	-4,0	1,0	13,0	33,2	2,0	-4,0	1,0	13,0	33,1	1,0	-3,0	0,0	13,0	33,1	1,0	-2,0	2,0
17	15/11/2011 08.00	9,0	33,2	2,0	-4,0	1,0	9,0	33,2	3,0	-3,0	1,0	9,0	33,1	0,0	-3,0	0,0	9,0	33,1	1,0	-4,0	0,0
18	22/11/2011 08.00	14,0	33,2	3,0	-6,0	2,0	14,0	33,2	3,0	-4,0	3,0	14,0	33,1	0,0	-4,0	1,0	14,0	33,1	0,0	-5,0	1,0
19	29/11/2011 08.00	10,0	33,2	3,0	-2,0	2,0	10,0	33,2	3,0	-1,0	1,0	10,0	33,1	0,0	-4,0	0,0	10,0	33,1	0,0	-4,0	0,0
20	06/12/2011 08.00	14,0	33,2	1,0	-5,0	0,0	14,0	33,2	1,0	-6,0	2,0	14,0	33,1	0,0	-3,0	2,0	14,0	33,1	0,0	-4,0	2,0
21	13/12/2011 08.00	13,0	33,2	2,0	-3,0	0,0	13,0	33,2	2,0	-3,0	1,0	13,0	33,1	0,0	-3,0	1,0	13,0	33,1	0,0	-3,0	1,0
22	20/12/2011 08.00	4,0	33,2	2,0	-5,0	1,0	4,0	33,2	3,0	-4,0	1,0	4,0	33,1	0,0	-4,0	1,0	4,0	33,1	0,0	-4,0	1,0
23	10/01/2012 08.00	4,0	33,2	3,0	-2,0	3,0	4,0	33,2	3,0	-2,0	2,0	4,0	33,1	0,0	-2,0	2,0	4,0	33,1	1,0	-2,0	3,0
24	24/01/2012 08.00	10,0	33,2	3,0	-4,0	3,0	10,0	33,2	3,0	-4,0	3,0	10,0	33,1	0,0	-3,0	3,0	10,0	33,1	0,0	-3,0	1,0
25	08/02/2012 08.00	5,0	33,2	2,0	-5,0	1,0	5,0	33,2	3,0	-5,0	2,0	5,0	33,1	-1,0	-4,0	0,0	5,0	33,1	0,0	-4,0	1,0
26	13/03/2012 08.00	11,0	33,2	3,0	-5,0	0,0	11,0	33,2	3,0	-5,0	1,0	11,0	33,1	0,0	-4,0	1,0	11,0	33,1	0,0	-4,0	0,0
27	26/03/2012 08.00	13,0	33,2	2,0	-1,0	1,0	13,0	33,2	2,0	-2,0	1,0	13,0	33,1	0,0	-2,0	2,0	13,0	33,1	0,0	-3,0	1,0
28	05/04/2012 08.00	16,0	33,2	2,0	-2,0	1,0	16,0	33,2	3,0	-2,0	2,0	16,0	33,1	-1,0	-2,0	1,0	16,0	33,1	0,0	-3,0	2,0
29	17/04/2012 08.00	11,0	33,2	1,0	-3,0	1,0	11,0	33,2	3,0	-3,0	1,0	11,0	33,1	0,0	-4,0	1,0	11,0	33,1	2,0	-4,0	1,0
30	02/05/2012 10.30	18,0	33,2	3,0	-6,0	2,0	18,0	33,2	3,0	-3,0	1,0	18,0	33,1	2,0	-3,0	1,0	18,0	33,1	1,0	-4,0	1,0
31	15/05/2012 08.30	13,0	33,2	3,0	-6,0	2,0	13,0	33,2	3,0	-4,0	1,0	13,0	33,1	1,0	-3,0	1,0	13,0	33,1	1,0	-4,0	0,0
32	23/05/2012 17.30	20,0	33,2	3,0	0,0	2,0	20,0	33,2	3,0	0,0	3,0	20,0	33,1	0,0	-3,0	2,0	20,0	33,1	1,0	-3,0	3,0
33	30/05/2012 08.00	18,0	33,2	2,0	-5,0	1,0	18,0	33,2	3,0	-3,0	1,0	18,0	33,1	0,0	-3,0	1,0	18,0	33,1	1,0	-3,0	3,0
34	06/06/2012 16.30	25,0	33,2	2,0	-5,0	2,0	25,0	33,2	3,0	-4,0	2,0	25,0	33,1	0,0	-4,0	2,0	25,0	33,1	0,0	-5,0	2,0
35	13/06/2012 08.30	20,0	33,2	1,0	0,0	2,0	20,0	33,2	1,0	0,0	3,0	20,0	33,1	0,0	-4,0	2,0	20,0	33,1	1,0	-4,0	3,0
36	20/06/2012 16.30	31,0	33,2	1,0	-2,0	2,0	31,0	33,2	1,0	-2,0	2,0	31,0	33,1	0,0	-5,0	1,0	31,0	33,1	1,0	-5,0	1,0
37	28/06/2012 08.30	28,0	33,2	1,0	-1,0	4,0	28,0	33,2	1,0	-1,0	4,0	28,0	33,1	0,0	-4,0	3,0	28,0	33,1	1,0	-5,0	3,0
38	04/07/2012 19.30	29,0	33,2	2,0	-4,0	2,0	29,0	33,2	1,0	-4,0	2,0	29,0	33,1	0,0	-5,0	1,0	29,0	33,1	0,0	-6,0	2,0
39	12/07/2012 08.30	25,0	33,2	2,0	-3,0	3,0	25,0	33,2	3,0	-3,0	4,0	25,0	33,1	1,0	-4,0	4,0	25,0	33,1	1,0	-5,0	4,0
40	18/07/2012 16.30	34,0	33,2	1,0	0,0	3,0	34,0	33,2	3,0	2,0	4,0	34,0	33,1	-2,0	-4,0	4,0	34,0	33,1	-1,0	-5,0	5,0
41	24/07/2012 09.00	23,0	33,2	1,0	-1,0	0,0	23,0	33,2	3,0	1,0	3,0	23,0	33,1	-2,0	-1,0	2,0	23,0	33,1	-1,0	-2,0	0,0
42	01/08/2012 09.00	26,0	33,2	0,0	0,0	0,0	26,0	33,2	3,0	1,0	3,0	26,0	33,1	-1,0	-1,0	3,0	26,0	33,1	-1,0	-2,0	1,0
43	09/08/2012 08.30	26,0	33,2	1,0	-3,0	1,0	26,0	33,2	1,0	-3,0	3,0	26,0	33,1	-2,0	-4,0	5,0	26,0	33,1	-2,0	-5,0	4,0
44	29/08/2012 16.00	30,0	33,2	1,0	-2,0	2,0	30,0	33,2	1,0	-2,0	3,0	30,0	33,1	-1,0	-5,0	3,0	30,0	33,1	-2,0	-6,0	2,0
45	13/09/2012 15.00	22,0	33,2	1,0	-1,0	4,0	22,0	33,2	1,0	-2,0	5,0	22,0	33,1	-1,0	-5,0	4,0	22,0	33,1	-1,0	-6,0	5,0
46	18/09/2012 08.00	19,0	33,2	1,0	-1,0	4,0	19,0	33,2	1,0	0,0	6,0	19,0	33,1	-2,0	-5,0	4,0	19,0	33,1	-1,0	-5,0	6,0
47	26/09/2012 15.00	30,0	33,2	2,0	-2,0	4,0	30,0	33,2	1,0	-1,0	4,0	30,0	33,1	-1,0	-4,0	4,0	30,0	33,1	-1,0	-5,0	4,0
48	04/10/2012 09.00	18,0	33,2	2,0	-4,0	2,0	18,0	33,2	1,0	-3,0	3,0	18,0	33,1	-2,0	-5,0	5,0	18,0	33,1	-1,0	-7,0	4,0
49	17/10/2012 08.30	14,0	33,2	3,0	-2,0	4,0	14,0	33,2	3,0	-1,0	5,0	14,0	33,1	-4,0	-5,0	4,0	14,0	33,1	-3,0	-5,0	5,0
50	07/11/2012 08.30	14,0	33,2	1,0	-1,0	3,0	14,0	33,2	2,0	-1,0	4,0	14,0	33,1	-3,0	-4,0	5,0	14,0	33,1	-2,0	-4,0	6,0
51	27/11/2012 08.30	11,0	33,2	2,0	-6,0	2,0	11,0	33,2	2,0	-5,0	3,0	11,0	33,1	-3,0	-5,0	6,0	11,0	33,1	-2,0	-6,0	5,0
52	17/12/2012 08.30	13,0	33,2	1,0	-3,0	4,0	13,0	33,2	2,0	-2,0	5,0	13,0	33,1	-5,0	-6,0	5,0	13,0	33,1	-4,0	-6,0	4,0
53	09/01/2013 08.30	10,0	33,2	1,0	-6,0	3,0	10,0	33,2	2,0	-6,0	3,0	10,0	33,1	-4,0	-5,0	5,0	10,0	33,1	-3,0	-5,0	5,0
54	29/01/2013 08.00	8,0	33,2	1,0	-3,0	4,0	8,0	33,2	2,0	-3,0	4,0	8,0	33,1	-4,0	-5,0	5,0	8,0	33,1	-3,0	-5,0	5,0
55	07/02/2013 08.00	8,0	33,2	2,0	-3,0	3,0	8,0	33,2	2,0	-4,0	5,0	8,0	33,1	-3,0	-5,0	2,0	8,0	33,1	-2,0	-6,0	3,0
56	14/02/2013 08.30	6,0	33,2	1,0	-4,0	3,0	6,0	33,2	2,0	-4,0	5,0	6,0	33,1	-2,0	-5,0	5,0	6,0	33,1	-2,0	-6,0	5,0
57	19/02/2013 15.30	12,0	33,2	2,0	-1,0	5,0	12,0	33,2	2,0	-1,0	5,0	12,0	33,1	-4,0	-5,0	4,0	12,0	33,1	-3,0	-5,0	4,0
58	27/02/2013 08.30	6,0	33,2	2,0	-3,0	3,0	6,0	33,2	1,0	-4,0	4,0	6,0	33,1	-2,0	-7,0	1,0	6,0	33,1	-2,0	-8,0	1,0
59	05/03/2013 10.30	12,0	33,2	1,0	-1,0	4,0	12,0	33,2	1,0	-2,0	6,0	12,0	33,1	-3,0	-4,0	3,0	12,0	33,1	-2,0	-5,0	5,0
60	12/03/2013 08.30	10,0	33,2	1,0	-2,0	4,0	10,0	33,2	3,0	-2,0	5,0	10,0	33,1	-3,0	-6,0	3,0	10,0	33,1	-2,0	-6,0	4,0
61	19/03/2013 16.00	16,0	33,2	2,0	0,0	5,0	16,0														



Ubicazione STAZIONE CHIAIA
Opera \ \ I Ordine di Tiranti \ 05-
Tipo Strumento Mire Ottiche
Data posa in opera 15/07/2011
Data lettura di zero 15/07/2011

UBICAZIONE
STAZIONE CHIAIA \ \ I Ordine di Tiranti \ 05-08

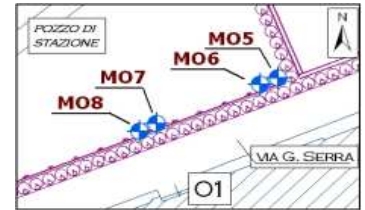
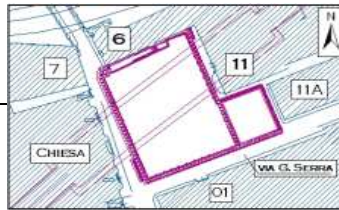


GRAFICO QUOTA

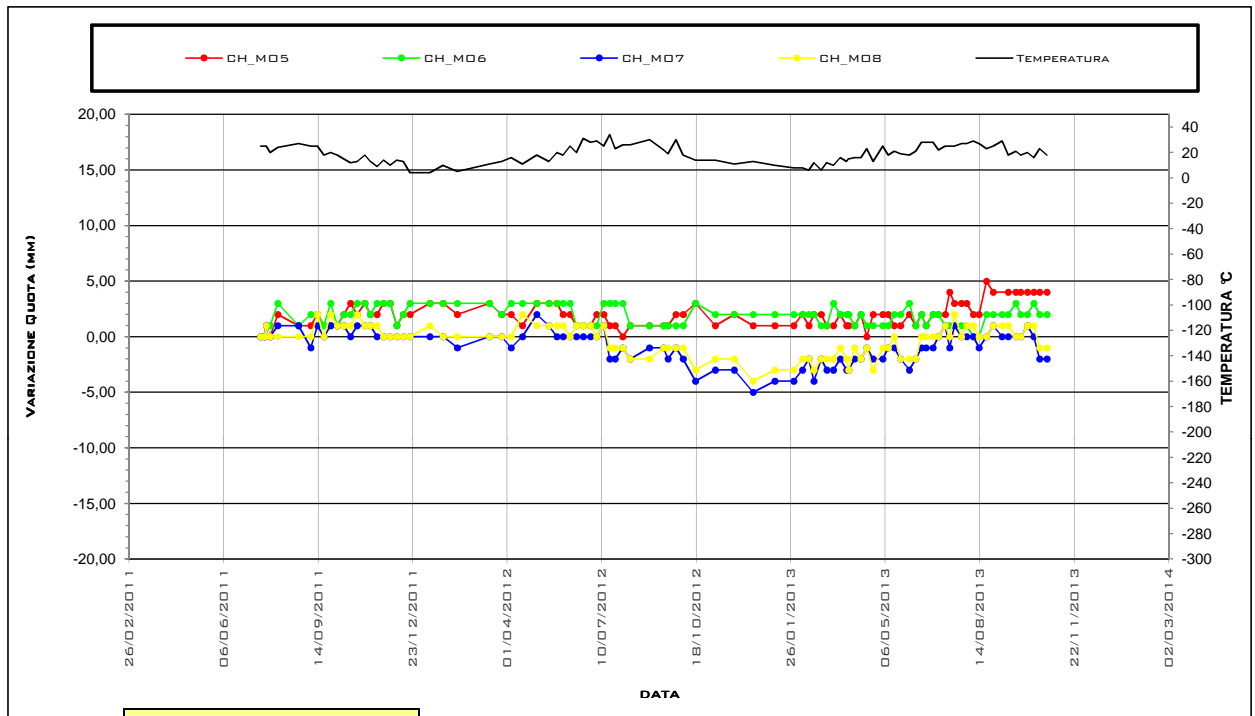
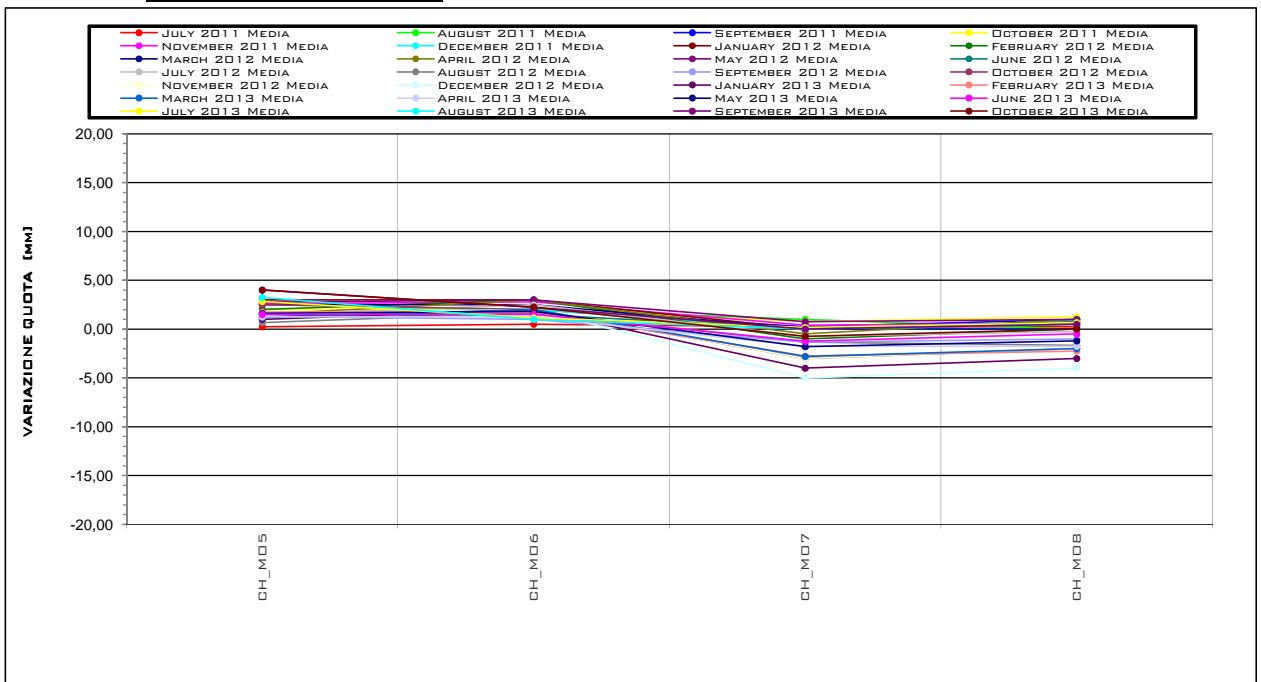


GRAFICO ISOCRONE





Ubicazione STAZIONE CHIAIA
Opera \ \ 1 Ordine di Tiranti \ 05-
Tipo Strumento Mire Ottiche
Data posa in opera 15/07/2011
Data lettura di zero 15/07/2011

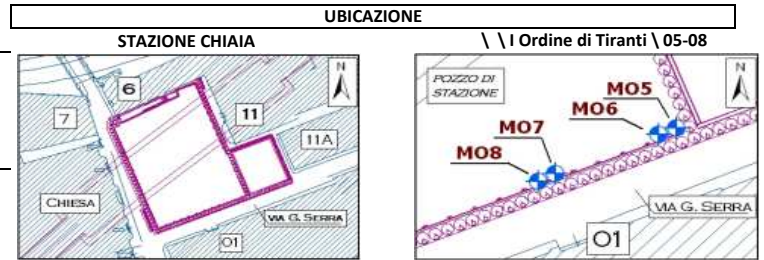


GRAFICO EST

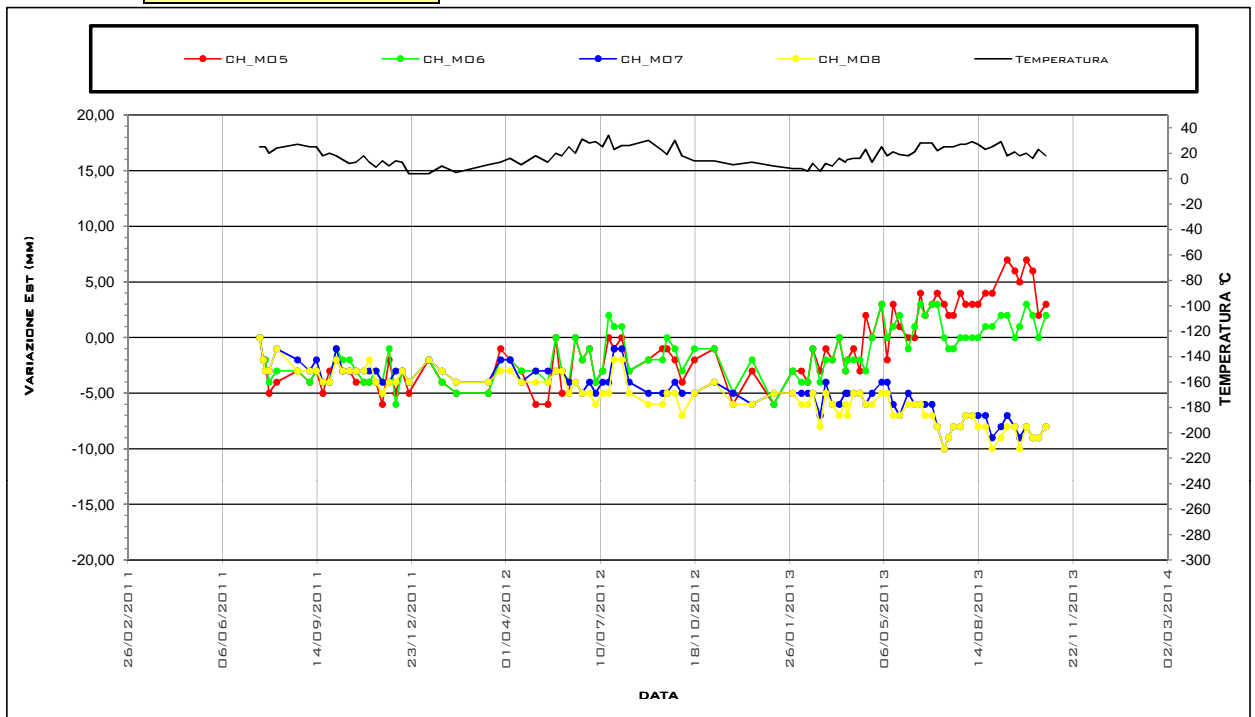
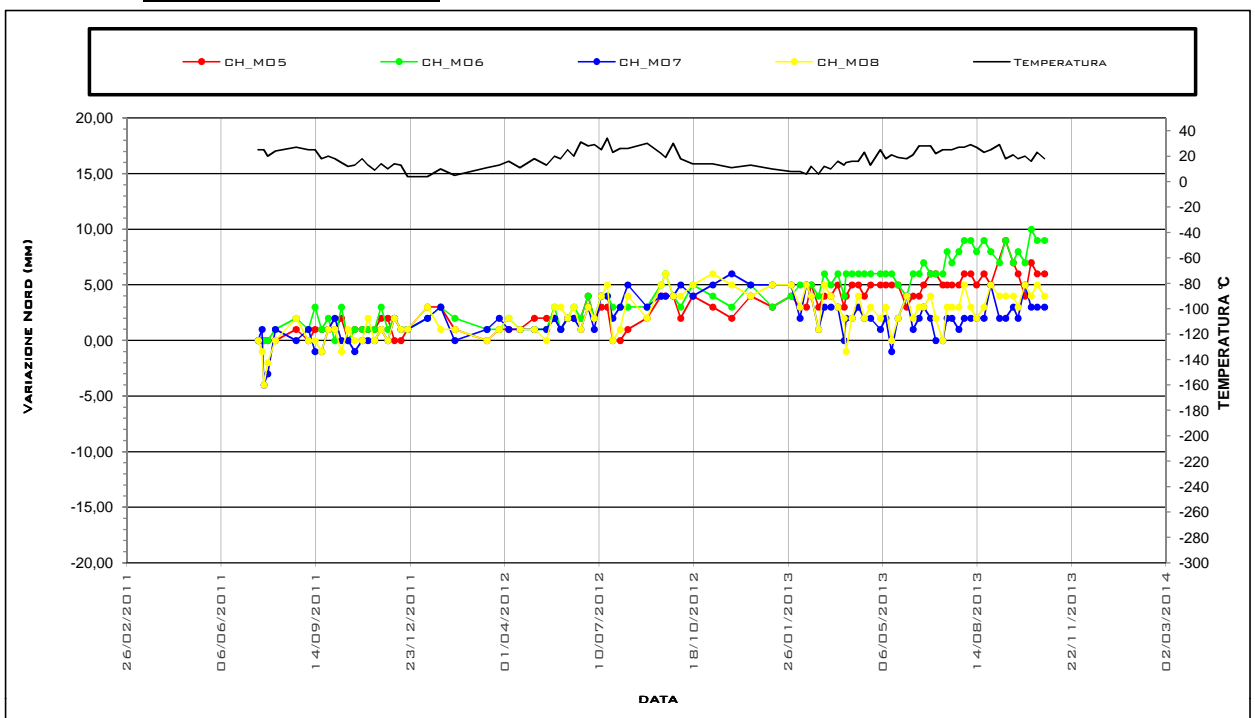


GRAFICO NORD





Ubicazione STAZIONE CHIAIA

Opera \ \ Ordine di Tiranti \ 09-12

Tipo Strumento Mire Ottiche

Data posa in opera 15/07/2011

Data lettura di zero 15/07/2011

Ultima Misura 94 in data 24/10/2013

Letto. n°	DATA	CH_M010					CH_M011					CH_M012					CH_M09				
		Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]
4	25/07/2011 08.00	20,0	34,1	0,0	-2,0	-1,0	20,0	34,0	0,0	-2,0	0,0	20,0	34,0	1,0	-4,0	1,0	20,0	34,1	1,0	-1,0	-2,0
5	02/08/2011 08.00	24,0	34,1	0,0	-1,0	-1,0	24,0	34,0	-1,0	-1,0	1,0	24,0	34,0	0,0	-1,0	1,0	24,0	34,1	1,0	0,0	0,0
6	24/08/2011 08.00	27,0	34,1	-1,0	-3,0	-1,0	27,0	34,0	-1,0	-1,0	2,0	27,0	34,0	1,0	-2,0	1,0	27,0	34,1	1,0	-1,0	1,0
7	06/09/2011 08.00	25,0	34,1	-1,0	-3,0	1,0	25,0	34,0	-1,0	-1,0	2,0	25,0	34,0	0,0	-2,0	1,0	25,0	34,1	1,0	-1,0	1,0
8	13/09/2011 08.00	25,0	34,1	0,0	-2,0	-1,0	25,0	34,0	-1,0	0,0	1,0	25,0	34,0	2,0	-2,0	1,0	25,0	34,1	2,0	-1,0	-1,0
9	20/09/2011 08.00	18,0	34,1	0,0	-3,0	-2,0	18,0	34,0	-1,0	-2,0	1,0	18,0	34,0	0,0	-2,0	0,0	18,0	34,1	0,0	-1,0	0,0
10	27/09/2011 08.00	20,0	34,1	0,0	-3,0	0,0	20,0	34,0	-1,0	-2,0	2,0	20,0	34,0	0,0	-3,0	2,0	20,0	34,1	1,0	-2,0	1,0
11	04/10/2011 08.00	18,0	34,1	0,0	0,0	-1,0	18,0	34,0	0,0	0,0	1,0	18,0	34,0	0,0	-1,0	2,0	18,0	34,1	1,0	0,0	1,0
12	11/10/2011 08.00	15,0	34,1	0,0	-2,0	0,0	15,0	34,0	0,0	0,0	1,0	15,0	34,0	1,0	-1,0	1,0	15,0	34,1	1,0	0,0	0,0
13	18/10/2011 08.00	12,0	34,1	0,0	-3,0	1,0	12,0	34,0	-1,0	-1,0	2,0	12,0	34,0	0,0	-3,0	2,0	12,0	34,1	1,0	-1,0	1,0
14	25/10/2011 08.00	13,0	34,1	0,0	-2,0	0,0	13,0	34,0	0,0	-1,0	2,0	13,0	34,0	1,0	-3,0	1,0	13,0	34,1	2,0	0,0	0,0
15	02/11/2011 08.00	18,0	34,1	1,0	-2,0	1,0	18,0	34,0	0,0	-1,0	2,0	18,0	34,0	2,0	-2,0	1,0	18,0	34,1	2,0	0,0	1,0
16	08/11/2011 08.00	13,0	34,1	0,0	-2,0	1,0	13,0	34,0	0,0	-1,0	2,0	13,0	34,0	0,0	-2,0	2,0	13,0	34,1	2,0	0,0	1,0
17	15/11/2011 08.00	9,0	34,1	0,0	-3,0	-1,0	9,0	34,0	0,0	-2,0	1,0	9,0	34,0	0,0	-3,0	1,0	9,0	34,1	1,0	0,0	0,0
18	22/11/2011 08.00	14,0	34,1	0,0	-3,0	1,0	14,0	34,0	-2,0	-2,0	3,0	14,0	34,0	0,0	-4,0	2,0	14,0	34,1	0,0	-2,0	1,0
19	29/11/2011 08.00	10,0	34,1	-1,0	-3,0	0,0	10,0	34,0	-2,0	-2,0	2,0	10,0	34,0	0,0	-3,0	2,0	10,0	34,1	-1,0	-1,0	1,0
20	06/12/2011 08.00	14,0	34,1	0,0	-2,0	0,0	14,0	34,0	-1,0	-2,0	2,0	14,0	34,0	0,0	-3,0	2,0	14,0	34,1	0,0	-1,0	1,0
21	13/12/2011 08.00	13,0	34,1	0,0	-2,0	0,0	13,0	34,0	-1,0	0,0	2,0	13,0	34,0	0,0	-2,0	2,0	13,0	34,1	0,0	-2,0	1,0
22	20/12/2011 08.00	4,0	34,1	-1,0	-3,0	1,0	4,0	34,0	-1,0	-2,0	2,0	4,0	34,0	0,0	-3,0	2,0	4,0	34,1	1,0	-1,0	1,0
23	10/01/2012 08.00	4,0	34,1	0,0	0,0	2,0	4,0	34,0	0,0	0,0	3,0	4,0	34,0	0,0	-2,0	3,0	4,0	34,1	1,0	1,0	3,0
24	24/01/2012 08.00	10,0	34,1	0,0	-2,0	1,0	10,0	34,0	-1,0	-2,0	2,0	10,0	34,0	0,0	-2,0	3,0	10,0	34,1	0,0	0,0	1,0
25	08/02/2012 08.00	5,0	34,1	-1,0	-3,0	0,0	5,0	34,0	-2,0	-1,0	3,0	5,0	34,0	0,0	-3,0	2,0	5,0	34,1	0,0	-1,0	2,0
26	13/03/2012 08.00	11,0	34,1	0,0	-2,0	0,0	11,0	34,0	-1,0	0,0	1,0	11,0	34,0	0,0	-2,0	1,0	11,0	34,1	0,0	0,0	0,0
27	26/03/2012 08.00	13,0	34,1	0,0	-2,0	1,0	13,0	34,0	-2,0	-1,0	3,0	13,0	34,0	0,0	-1,0	3,0	13,0	34,1	1,0	0,0	0,0
28	05/04/2012 08.00	16,0	34,1	-1,0	-3,0	0,0	16,0	34,0	-2,0	-1,0	2,0	16,0	34,0	0,0	-3,0	2,0	16,0	34,1	1,0	-1,0	1,0
29	17/04/2012 08.00	11,0	34,1	0,0	-3,0	1,0	11,0	34,0	-1,0	-1,0	2,0	11,0	34,0	1,0	-3,0	2,0	11,0	34,1	1,0	-2,0	2,0
30	02/05/2012 10.30	18,0	34,1	1,0	-2,0	0,0	18,0	34,0	0,0	-1,0	2,0	18,0	34,0	2,0	-3,0	2,0	18,0	34,1	2,0	-1,0	1,0
31	15/05/2012 08.30	13,0	34,1	0,0	-4,0	-1,0	13,0	34,0	0,0	-1,0	1,0	13,0	34,0	1,0	-3,0	1,0	13,0	34,1	2,0	0,0	0,0
32	23/05/2012 17.30	20,0	34,1	1,0	-2,0	1,0	20,0	34,0	0,0	-1,0	2,0	20,0	34,0	0,0	-2,0	2,0	20,0	34,1	1,0	-1,0	2,0
33	30/05/2012 08.30	18,0	34,1	0,0	-2,0	0,0	18,0	34,0	0,0	-1,0	2,0	18,0	34,0	0,0	-2,0	2,0	18,0	34,1	2,0	-2,0	1,0
34	06/06/2012 16.30	25,0	34,1	0,0	-4,0	1,0	25,0	34,0	-1,0	-1,0	3,0	25,0	34,0	0,0	-2,0	1,0	25,0	34,1	1,0	-2,0	2,0
35	13/06/2012 08.30	20,0	34,1	0,0	-3,0	1,0	20,0	34,0	0,0	-1,0	2,0	20,0	34,0	0,0	-2,0	2,0	20,0	34,1	1,0	0,0	1,0
36	20/06/2012 16.30	31,0	34,1	0,0	-4,0	-1,0	31,0	34,0	0,0	-1,0	-1,0	31,0	34,0	1,0	-1,0	0,0	31,0	34,1	1,0	-1,0	0,0
37	28/06/2012 08.30	28,0	34,1	0,0	-4,0	1,0	28,0	34,0	1,0	-1,0	1,0	28,0	34,0	1,0	-2,0	3,0	28,0	34,1	1,0	-3,0	3,0
38	04/07/2012 19.30	29,0	34,1	0,0	-6,0	0,0	29,0	34,0	0,0	-2,0	0,0	29,0	34,0	0,0	-3,0	1,0	29,0	34,1	0,0	-3,0	1,0
39	12/07/2012 08.30	25,0	34,1	0,0	-4,0	0,0	25,0	34,0	0,0	-1,0	1,0	25,0	34,0	0,0	-1,0	2,0	25,0	34,1	0,0	-2,0	1,0
40	18/07/2012 16.30	34,0	34,1	-2,0	-4,0	1,0	34,0	34,0	-1,0	-1,0	0,0	34,0	34,0	0,0	-1,0	2,0	34,0	34,1	-1,0	-3,0	2,0
41	24/07/2012 09.30	23,0	34,1	-2,0	-2,0	-3,0	23,0	34,0	-1,0	1,0	2,0	23,0	34,0	-1,0	0,0	1,0	23,0	34,1	-1,0	-1,0	-2,0
42	01/08/2012 09.00	26,0	34,1	-2,0	-3,0	-2,0	26,0	34,0	-1,0	2,0	2,0	26,0	34,0	-1,0	0,0	0,0	26,0	34,1	-1,0	-1,0	-1,0
43	09/08/2012 08.30	26,0	34,1	-2,0	-4,0	1,0	26,0	34,0	-1,0	-1,0	1,0	26,0	34,0	-1,0	-1,0	3,0	26,0	34,1	-2,0	-1,0	2,0
44	29/08/2012 16.00	30,0	34,1	-1,0	-5,0	1,0	30,0	34,0	-1,0	-1,0	0,0	30,0	34,0	0,0	-2,0	1,0	30,0	34,1	0,0	-4,0	1,0
45	13/09/2012 15.00	22,0	34,1	-1,0	-4,0	2,0	22,0	34,0	-1,0	-2,0	1,0	22,0	34,0	0,0	-2,0	2,0	22,0	34,1	0,0	-3,0	3,0
46	18/09/2012 08.00	19,0	34,1	-2,0	-4,0	3,0	19,0	34,0	-1,0	-1,0	2,0	19,0	34,0	0,0	-1,0	3,0	19,0	34,1	0,0	-3,0	3,0
47	26/09/2012 15.00	30,0	34,1	-1,0	-4,0	2,0	30,0	34,0	0,0	-1,0	1,0	30,0	34,0	0,0	-1,0	1,0	30,0	34,1	0,0	-3,0	2,0
48	04/10/2012 09.00	18,0	34,1	-2,0	-4,0	2,0	18,0	34,0	-1,0	-2,0	2,0	18,0	34,0	0,0	-2,0	3,0	18,0	34,1	0,0	-4,0	2,0
49	17/10/2012 08.30	14,0	34,1	-3,0	-3,0	2,0	14,0	34,0	-2,0	0,0	2,0	14,0	34,0	-2,0	-1,0	3,0	14,0	34,1	-2,0	-2,0	3,0
50	07/11/2012 08.30	14,0	34,1	-2,0	-3,0	3,0	14,0	34,0	-2,0	0,0	2,0	14,0	34,0	0,0	0,0	3,0	14,0	34,1	-1,0	-2,0	3,0
51	27/11/2012 08.30	11,0	34,1	-2,0	-3,0	3,0	11,0	34,0	-2,0	0,0	3,0	11,0	34,0	-1,0	-1,0	3,0	11,0	34,1	0,0	-2,0	4,0
52	17/12/2012 08.30	13,0	34,1	-3,0	-5,0	3,0	13,0	34,0	-3,0	-1,0	2,0	13,0	34,0	-3,0	-2,0	3,0	13,0	34,1	-3,0	-3,0	5,0
53	09/01/2013 08.30	10,0	34,1	-3,0	-3,0	2,0	10,0	34,0	-2,0	-1,0	2,0	10,0	34,0	-2,0	-2,0	2,0	10,0	34,1	-2,0	-4,0	3,0
54	29/01/2013 08.30	8,0	34,1	-3,0	-3,0	4,0	8,0	34,0	-2,0	-1,0	3,0	8,0	34,0	-2,0	-2,0	3,0	8,0	34,1	-2,0	-3,0	5,0
55	07/02/2013 15.00	8,0	34,1	-1,0	-4,0	2,0	8,0	34,0	-1,0	0,0	2,0	8,0	34,0	-1,0	-1,0	2,0	8,0	34,1	0,0	-3,0	2,0
56	14/02/2013 08.30	6,0	34,1	-1,0	-3,0	4,0	6,0	34,0	-1,0	0,0	3,0	6,0	34,0	-1,0	0,0	5,0	6,0	34,1	0,0	-2,0	4,0
57	19/02/2013 15.30	12,0	34,1	-2,0	-3,0	3,0	12,0	34,0	-2,0	0,0	3,0	12,0	34,0	-2,0	0,0	4,0	12,0	34,1	-1,0	-1,0	4,0
58	27/02/2013 08.30	6,0	34,1	-1,0	-6,0	1,0	6,0	34,0	0,0	-1,0	1,0	6,0	34,0	0,0	-2,0	2,0	6,0	34,1	0,0	-4,0	1,0
59	05/03/2013 10.30	12,0	34,1	-2,0	-3,0	2,0										12,0	34,1	-1,0	-2,0	3,0	
60	12/03/2013 08.30	10,0	34,1	-2,0	-5,0	2,0										10,0	34,1	-1,0	-4,0	3,0	
61	19/03/2013 16.00																				



Ubicazione STAZIONE CHIAIA
Opera \ \ I Ordine di Tiranti \ 09-
Tipo Strumento Mire Ottiche
Data posa in opera 15/07/2011
Data lettura di zero 15/07/2011

UBICAZIONE

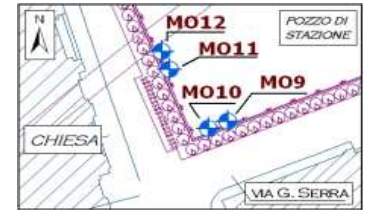
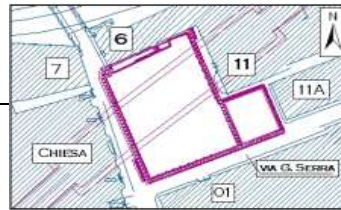


GRAFICO QUOTA

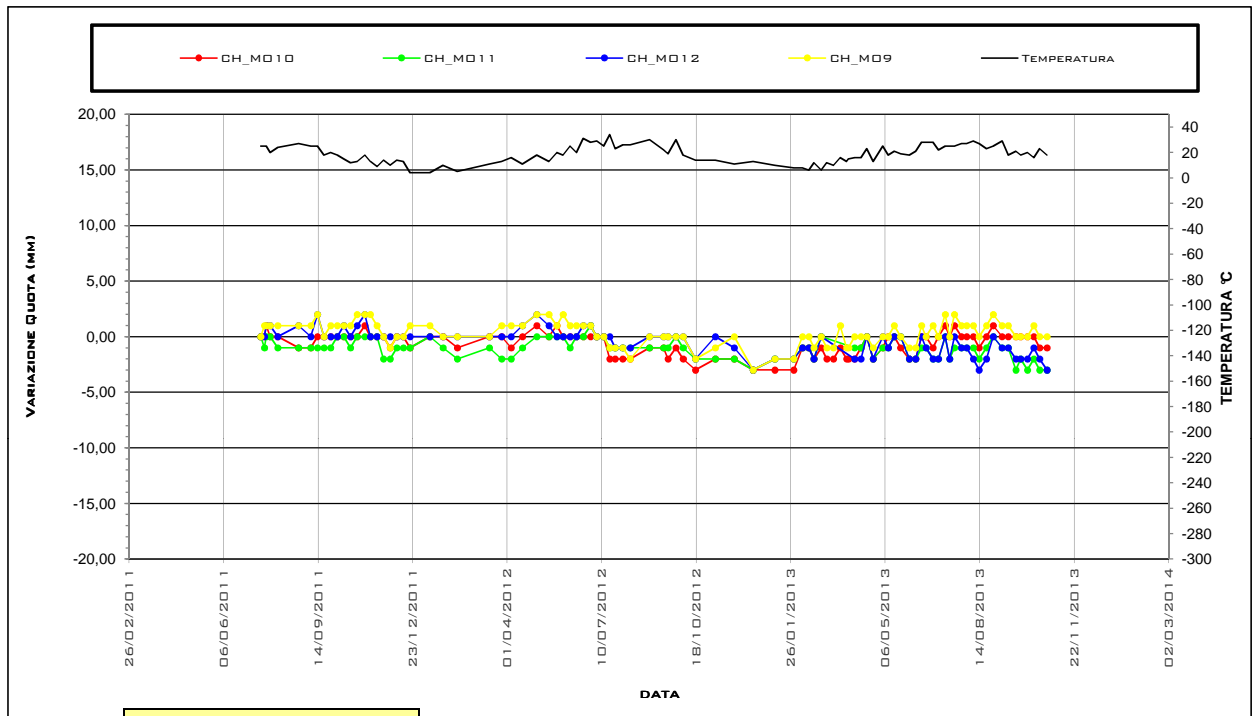
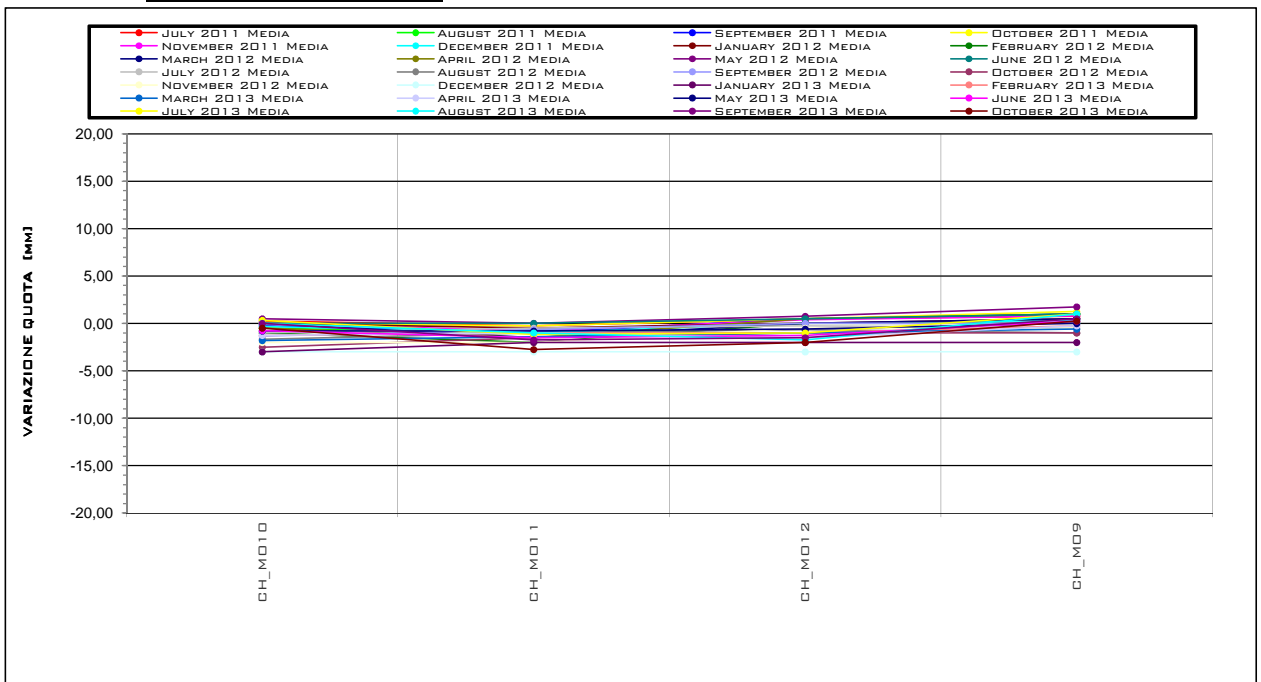


GRAFICO ISOCRONE





Ubicazione STAZIONE CHIAIA
Opera \ \ I Ordine di Tiranti \ 09-
Tipo Strumento Mire Ottiche
Data posa in opera 15/07/2011
Data lettura di zero 15/07/2011

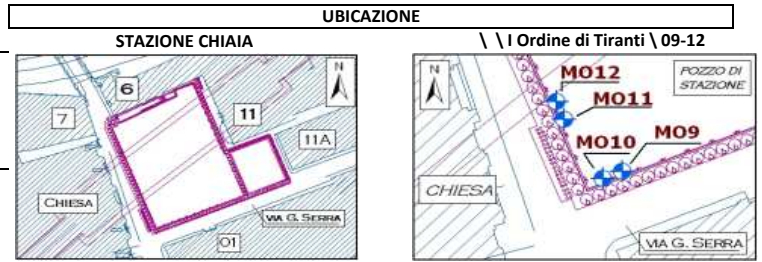


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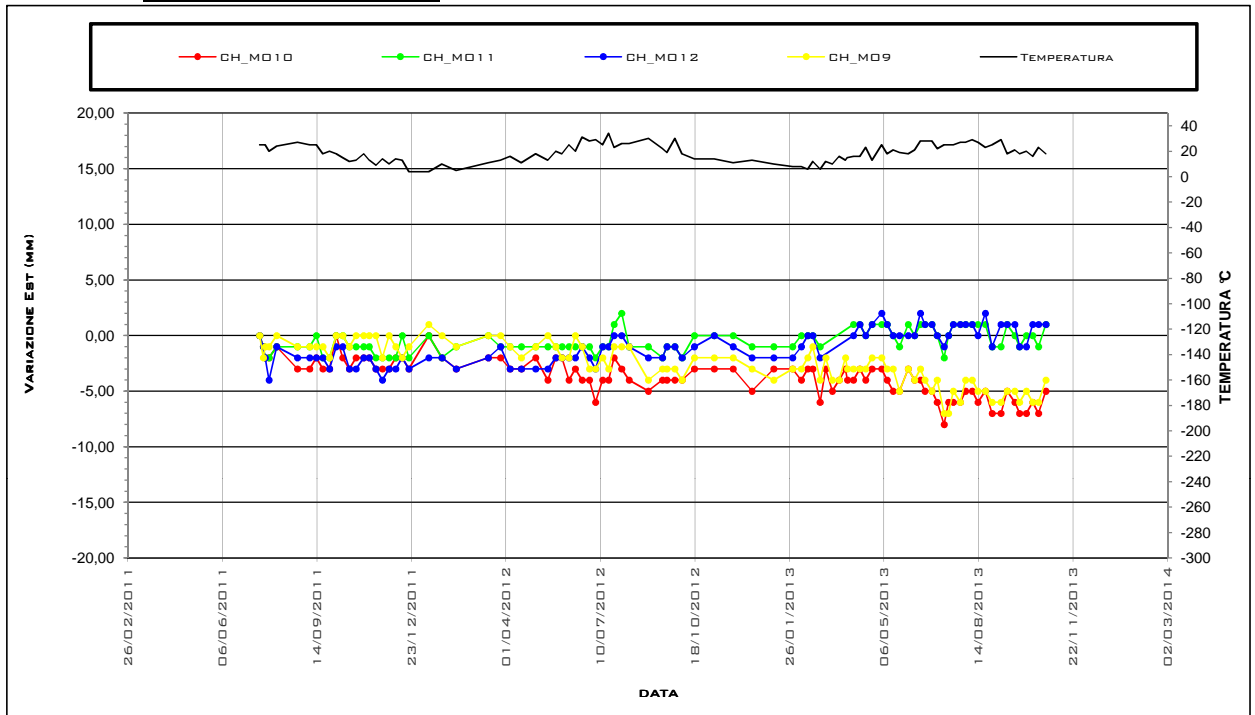
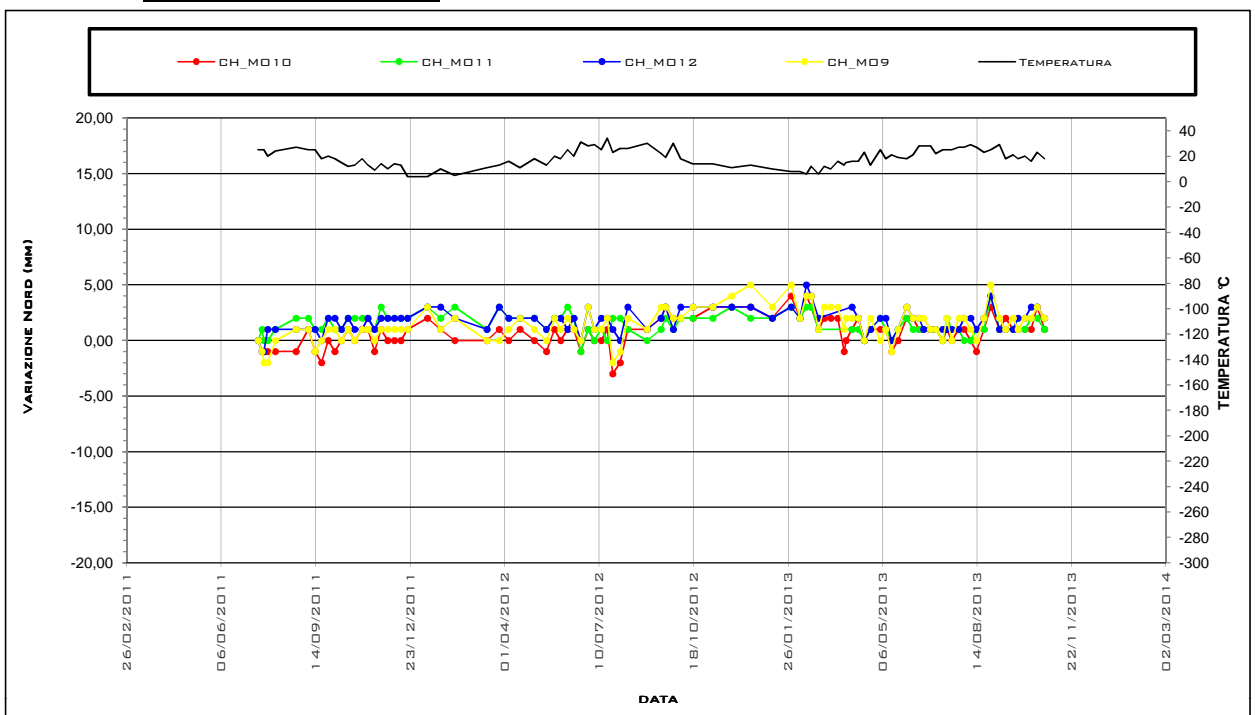


GRAFICO NORD





Ubicazione STAZIONE CHIAIA
Opera \ \ I Ordine di Tiranti \ 13-
Tipo Strumento Mire Ottiche
Data posa in opera 15/07/2011
Data lettura di zero 15/07/2011

GRAFICO QUOTA

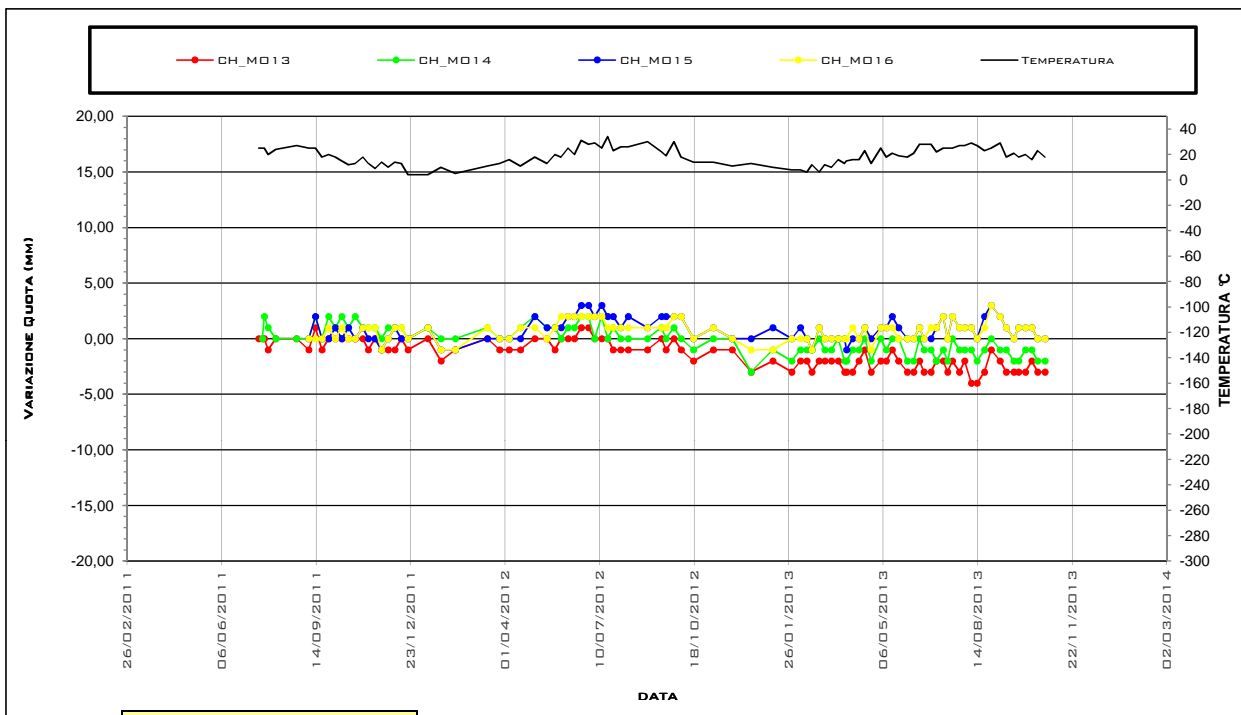
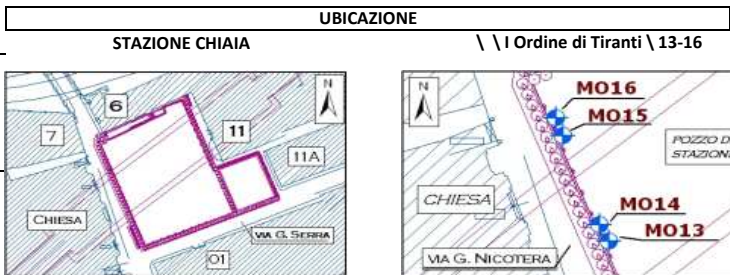
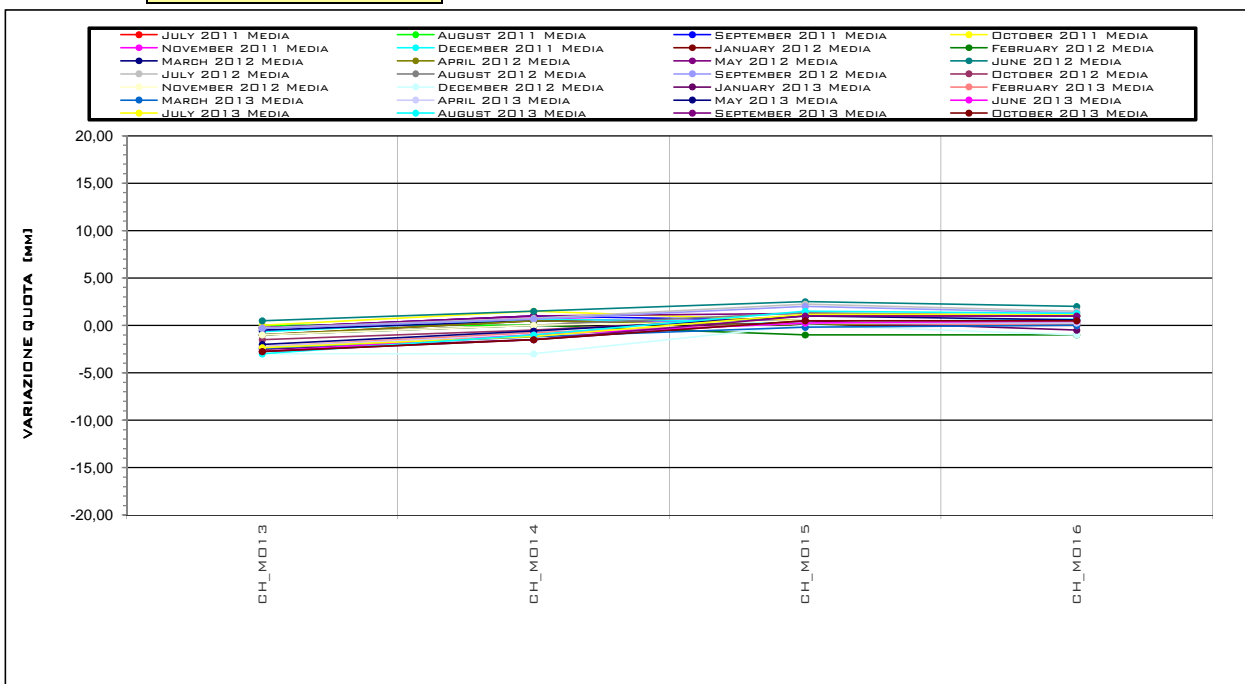


GRAFICO ISOCRONE





Ubicazione STAZIONE CHIAIA
Opera \ \ I Ordine di Tiranti \ 13-
Tipo Strumento Mire Ottiche
Data posa in opera 15/07/2011
Data lettura di zero 15/07/2011

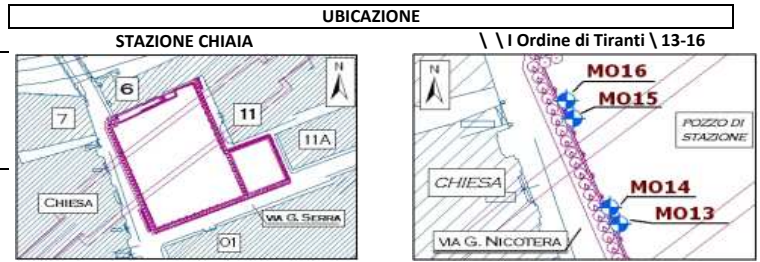


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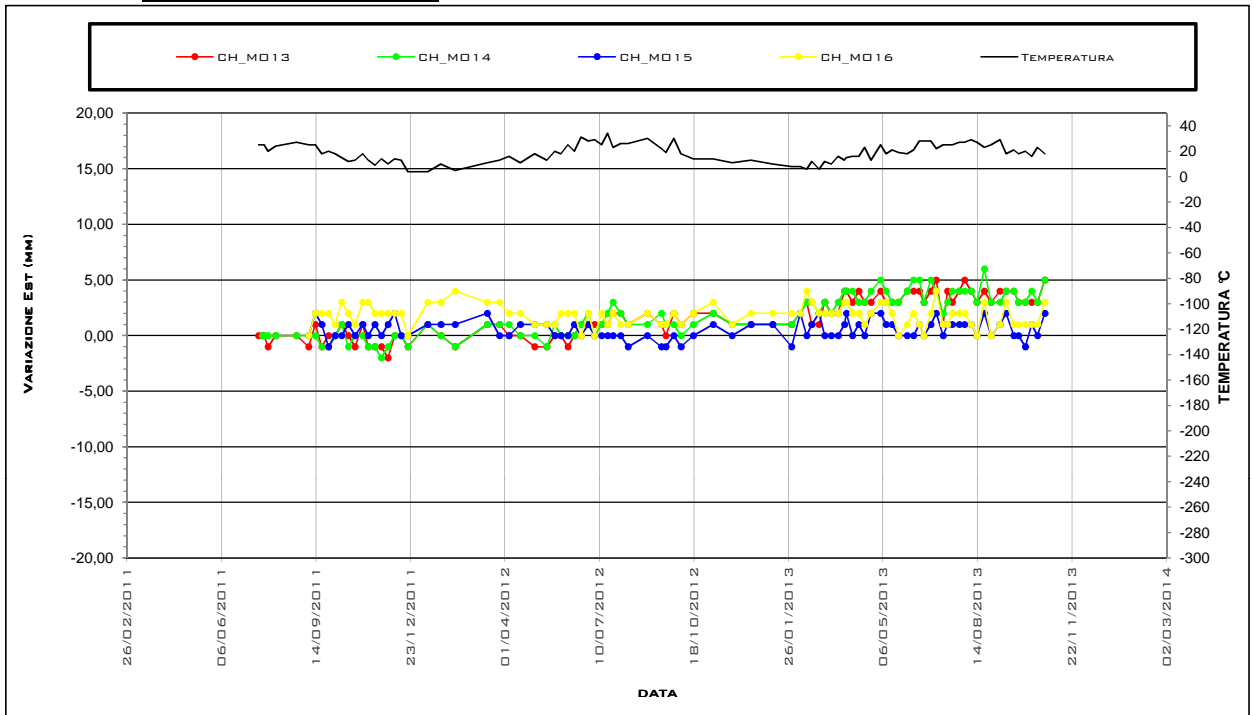
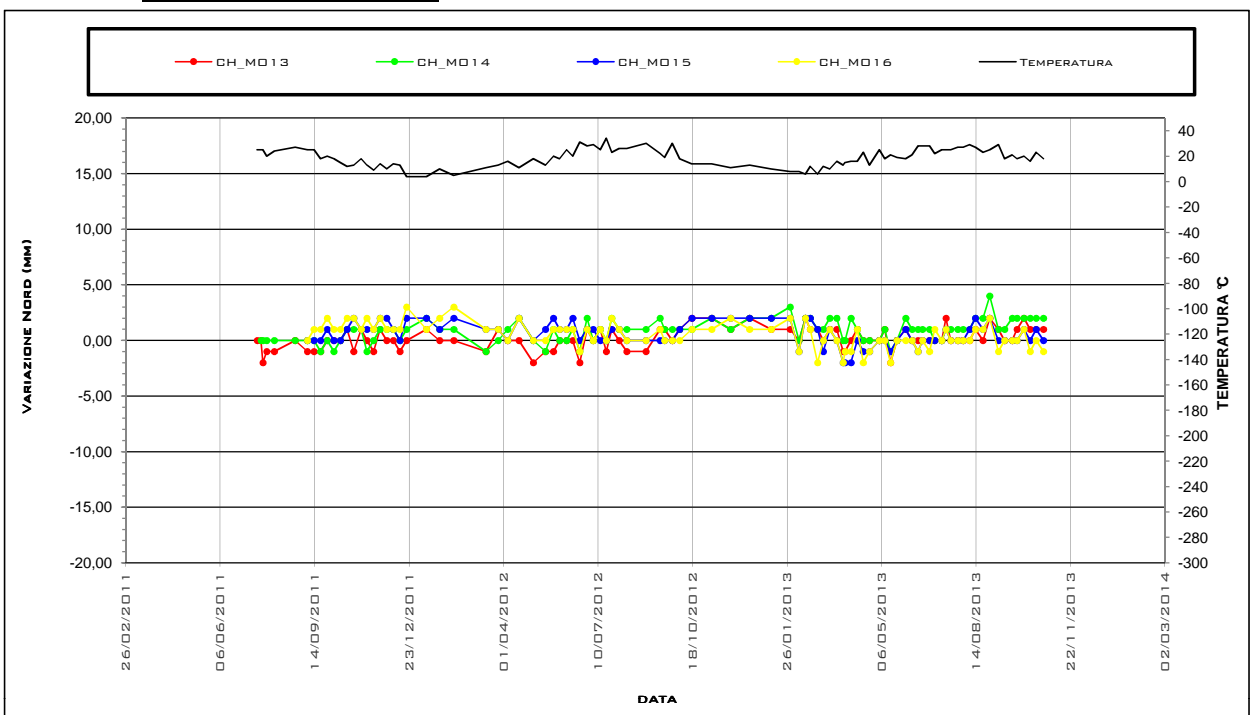


GRAFICO NORD





Ubicazione STAZIONE CHIAIA
Opera \ \ Il Ordine di Tiranti \ 17-
Tipo Strumento Mire Ottiche
Data posa in opera 17/04/2012
Data lettura di zero 17/04/2012

UBICAZIONE
STAZIONE CHIAIA \ \ Il Ordine di Tiranti \ 17-20

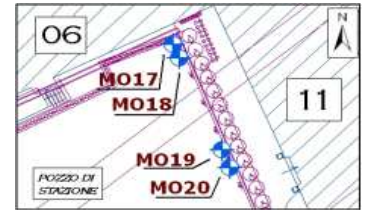
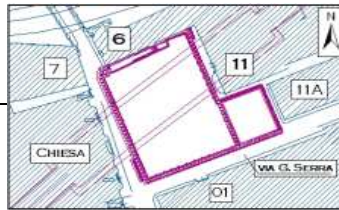


GRAFICO QUOTA

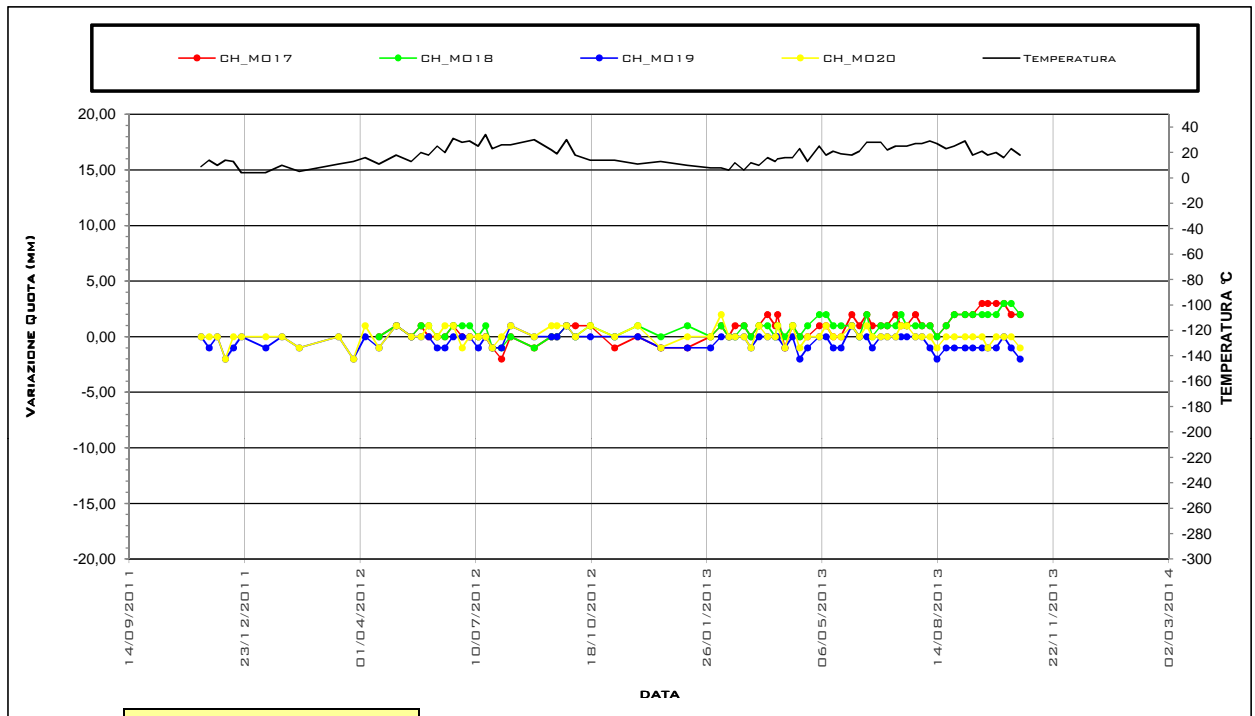
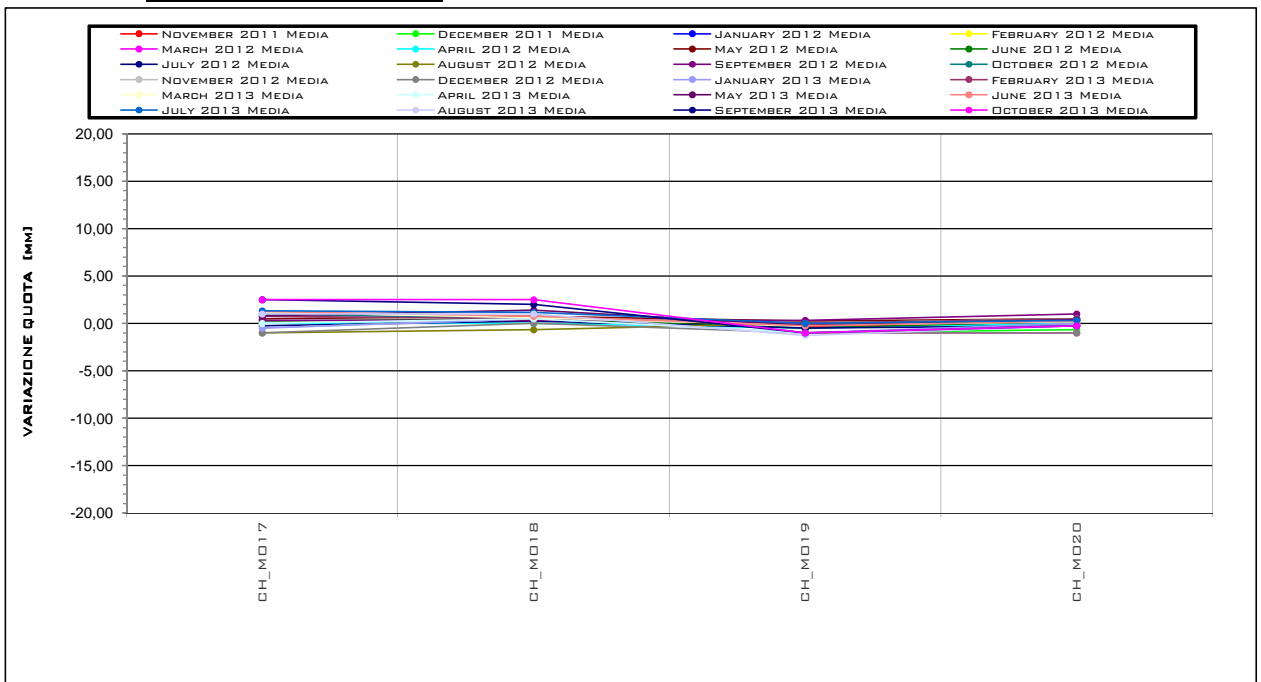


GRAFICO ISOCRONE





Ubicazione STAZIONE CHIAIA
Opera \ \ Il Ordine di Tiranti \ 17-
Tipo Strumento Mire Ottiche
Data posa in opera 17/04/2012
Data lettura di zero 17/04/2012

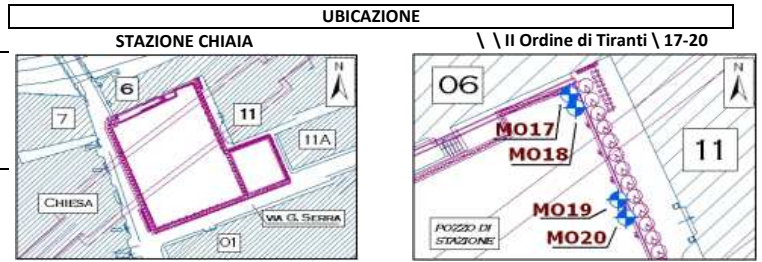


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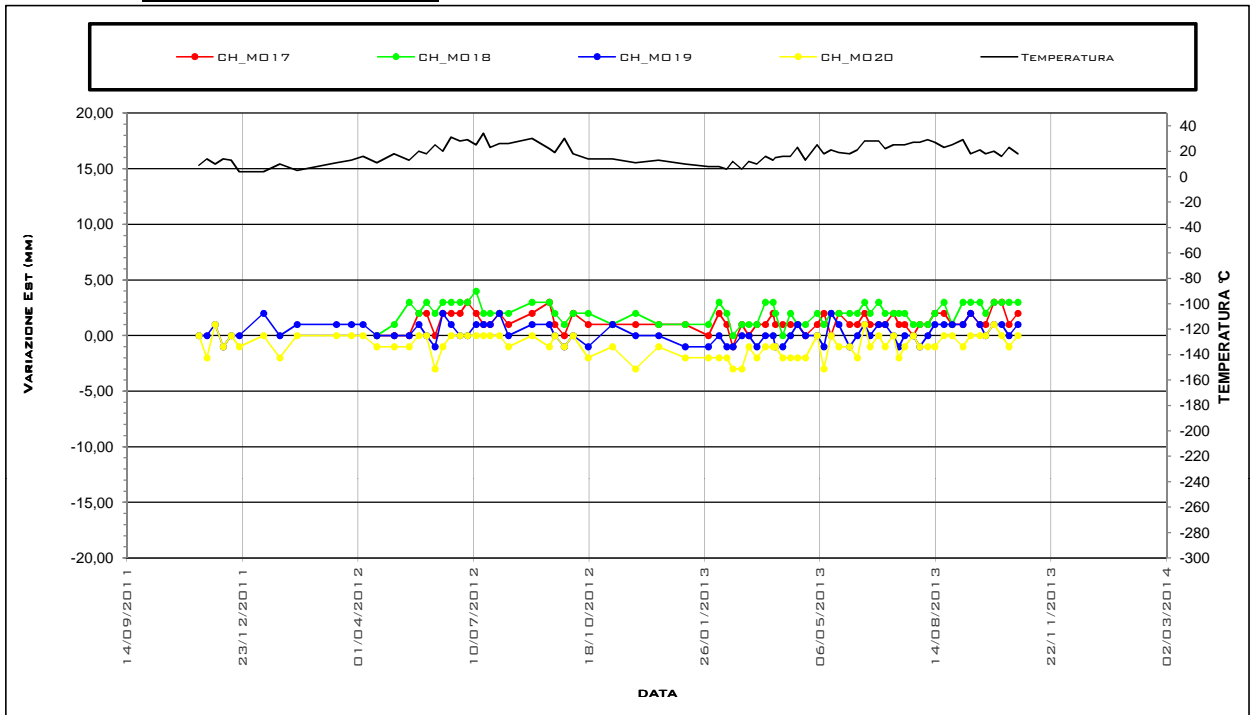
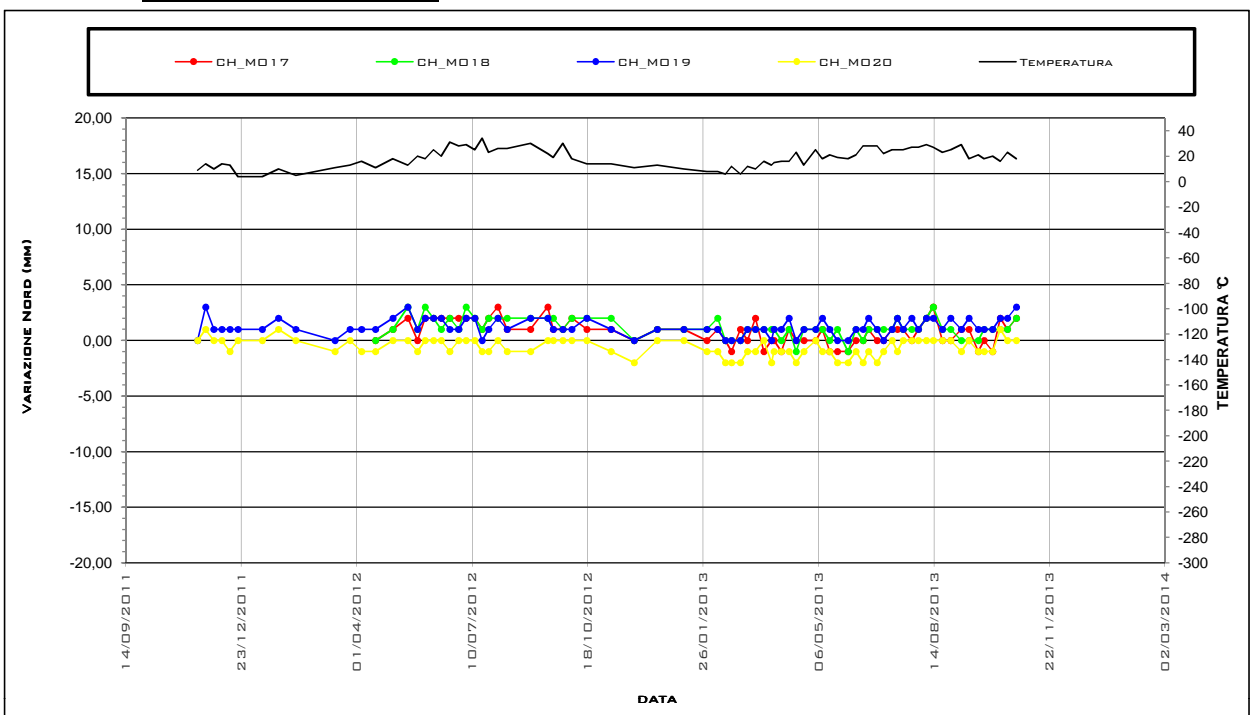


GRAFICO NORD





Ubicazione STAZIONE CHIAIA

Opera \ \ Il Ordine di Tiranti \ 21-24

Tipo Strumento Mire Ottiche

Data posa in opera 02/08/2011

Data lettura di zero 02/08/2011

Ultima Misura 90 in data 24/10/2013

Letto. n°	DATA	CH_M021					CH_M022					CH_M023					CH_M024				
		Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]
1	02/08/2011 08.01	24,0	28,9	0,0	0,0	0,0	24,0	28,9	0,0	0,0	0,0	24,0	28,8	0,0	0,0	0,0	24,0	28,8	0,0	0,0	0,0
2	24/08/2011 08.00	27,0	28,9	0,0	2,0	0,0	27,0	28,9	0,0	2,0	0,0	27,0	28,8	0,0	-1,0	1,0	27,0	28,8	0,0	-1,0	1,0
3	06/09/2011 08.00	25,0	28,9	0,0	1,0	0,0	25,0	28,9	-1,0	0,0	0,0	25,0	28,8	-1,0	-1,0	1,0	25,0	28,8	-1,0	-2,0	2,0
4	13/09/2011 08.00	25,0	28,9	0,0	1,0	1,0	25,0	28,9	-1,0	-1,0	1,0	25,0	28,8	0,0	-1,0	0,0	25,0	28,8	1,0	-1,0	0,0
5	20/09/2011 08.00	18,0	28,9	1,0	0,0	0,0	18,0	28,9	-1,0	-1,0	0,0	18,0	28,8	-1,0	-2,0	1,0	18,0	28,8	-1,0	-3,0	0,0
6	27/09/2011 08.00	20,0	28,9	0,0	1,0	1,0	20,0	28,9	-2,0	0,0	1,0	18,0	28,8	0,0	-1,0	3,0	18,0	28,8	0,0	-1,0	3,0
7	04/10/2011 08.00	18,0	28,9	0,0	2,0	0,0	18,0	28,9	-2,0	2,0	0,0	15,0	28,8	0,0	-2,0	2,0	15,0	28,8	0,0	-2,0	1,0
8	11/10/2011 08.00	15,0	28,9	0,0	2,0	1,0	15,0	28,9	-1,0	1,0	1,0	12,0	28,8	0,0	-2,0	2,0	12,0	28,8	-1,0	-3,0	2,0
9	18/10/2011 08.00	12,0	28,9	1,0	1,0	0,0	12,0	28,9	0,0	0,0	-1,0	13,0	28,8	0,0	-3,0	1,0	13,0	28,8	0,0	-3,0	1,0
10	25/10/2011 08.00	13,0	28,9	1,0	1,0	0,0	13,0	28,9	0,0	-1,0	0,0	13,0	28,8	0,0	-3,0	2,0	13,0	28,8	0,0	-1,0	1,0
11	02/11/2011 10.00	18,0	28,9	1,0	0,0	0,0	18,0	28,9	-1,0	0,0	0,0	18,0	28,8	0,0	-3,0	2,0	18,0	28,8	0,0	-1,0	1,0
12	08/11/2011 08.00	13,0	28,9	0,0	-1,0	0,0	13,0	28,9	0,0	-1,0	0,0	13,0	28,8	0,0	-2,0	2,0	13,0	28,8	-1,0	-2,0	2,0
13	15/11/2011 08.00	9,0	28,9	-1,0	1,0	0,0	9,0	28,9	0,0	0,0	0,0	9,0	28,8	0,0	-3,0	1,0	9,0	28,8	0,0	-3,0	1,0
14	22/11/2011 08.00	14,0	28,9	2,0	0,0	2,0	14,0	28,9	1,0	-1,0	2,0	14,0	28,8	-1,0	-5,0	1,0	14,0	28,8	-1,0	-4,0	2,0
15	29/11/2011 08.00	10,0	28,9	1,0	3,0	1,0	10,0	28,9	0,0	2,0	0,0	10,0	28,8	0,0	-3,0	2,0	10,0	28,8	0,0	-2,0	2,0
16	06/12/2011 08.00	14,0	28,9	0,0	-1,0	0,0	14,0	28,9	-1,0	-2,0	1,0	14,0	28,8	0,0	-3,0	3,0	14,0	28,8	0,0	-2,0	3,0
17	13/12/2011 08.00	13,0	28,9	0,0	1,0	0,0	13,0	28,9	-1,0	-1,0	0,0	13,0	28,8	1,0	-2,0	3,0	13,0	28,8	0,0	-2,0	3,0
18	20/12/2011 08.00	4,0	28,9	1,0	0,0	0,0	4,0	28,9	1,0	-3,0	1,0	4,0	28,8	0,0	-3,0	4,0	4,0	28,8	-1,0	-3,0	2,0
19	10/01/2012 08.00	4,0	28,9	1,0	2,0	1,0	4,0	28,9	1,0	1,0	1,0	4,0	28,8	1,0	-2,0	5,0	4,0	28,8	0,0	-1,0	4,0
20	24/01/2012 08.00	10,0	28,9	1,0	0,0	2,0	10,0	28,9	0,0	-1,0	2,0	10,0	28,8	-1,0	-2,0	4,0	10,0	28,8	-1,0	-2,0	3,0
21	08/02/2012 08.00	5,0	28,9	1,0	0,0	0,0	5,0	28,9	0,0	-1,0	0,0	5,0	28,8	-1,0	-3,0	3,0	5,0	28,8	-1,0	-3,0	2,0
22	13/03/2012 08.00	11,0	28,9	2,0	-1,0	-1,0	11,0	28,9	1,0	-3,0	-1,0	11,0	28,8	1,0	-2,0	2,0	11,0	28,8	0,0	-2,0	2,0
23	26/03/2012 08.00	13,0	28,9	0,0	2,0	1,0	13,0	28,9	-1,0	2,0	1,0	13,0	28,8	-1,0	-3,0	3,0	13,0	28,8	0,0	-2,0	3,0
24	05/04/2012 08.00	16,0	28,9	1,0	1,0	1,0	16,0	28,9	0,0	0,0	1,0	16,0	28,8	-1,0	-2,0	2,0	16,0	28,8	-1,0	-2,0	3,0
25	17/04/2012 08.00	11,0	28,9	0,0	1,0	0,0	11,0	28,9	0,0	0,0	0,0	11,0	28,8	0,0	-4,0	3,0	11,0	28,8	0,0	-3,0	3,0
26	02/05/2012 10.30	18,0	28,9	1,0	1,0	2,0	18,0	28,9	1,0	-1,0	2,0	18,0	28,8	1,0	-3,0	3,0	18,0	28,8	1,0	-2,0	2,0
27	15/05/2012 08.30	13,0	28,9	2,0	-1,0	2,0	13,0	28,9	1,0	-2,0	1,0	13,0	28,8	1,0	-4,0	2,0	13,0	28,8	0,0	-3,0	2,0
28	23/05/2012 17.30	20,0	28,9	1,0	5,0	2,0	20,0	28,9	-1,0	3,0	2,0	20,0	28,8	0,0	-3,0	4,0	20,0	28,8	-1,0	-3,0	4,0
29	30/05/2012 08.30	18,0	28,9	0,0	1,0	2,0	18,0	28,9	-2,0	0,0	2,0	18,0	28,8	0,0	-4,0	4,0	18,0	28,8	0,0	-3,0	3,0
30	06/06/2012 08.30	25,0	28,9	0,0	-1,0	2,0	25,0	28,9	-2,0	-2,0	2,0	25,0	28,8	-1,0	-4,0	5,0	25,0	28,8	-1,0	-4,0	4,0
31	13/06/2012 08.30	20,0	28,9	0,0	4,0	4,0	20,0	28,9	-2,0	3,0	5,0	20,0	28,8	-1,0	-4,0	5,0	20,0	28,8	0,0	-4,0	4,0
32	20/06/2012 16.30	31,0	28,9	-1,0	3,0	2,0	31,0	28,9	-2,0	-1,0	2,0	31,0	28,8	-1,0	-4,0	3,0	31,0	28,8	0,0	-4,0	2,0
33	28/06/2012 08.30	28,0	28,9	-2,0	3,0	3,0	28,0	28,9	-2,0	2,0	4,0	28,0	28,8	0,0	-5,0	6,0	28,0	28,8	-1,0	-4,0	5,0
34	04/07/2012 08.30	29,0	28,9	-1,0	1,0	3,0	29,0	28,9	-2,0	-1,0	3,0	29,0	28,8	-1,0	-6,0	4,0	29,0	28,8	-2,0	-5,0	3,0
35	12/07/2012 08.30	25,0	28,9	-1,0	2,0	3,0	25,0	28,9	-2,0	0,0	4,0	25,0	28,8	-1,0	-4,0	6,0	25,0	28,8	-1,0	-3,0	6,0
36	18/07/2012 16.30	34,0	28,9	0,0	4,0	4,0	34,0	28,9	-2,0	3,0	4,0	34,0	28,8	-2,0	-4,0	5,0	34,0	28,8	-3,0	-4,0	5,0
37	24/07/2012 09.00	23,0	28,9	-1,0	3,0	1,0	23,0	28,9	-3,0	3,0	2,0	23,0	28,8	-3,0	-1,0	4,0	23,0	28,8	-4,0	-1,0	4,0
38	01/08/2012 09.00	26,0	28,9	-1,0	4,0	2,0	26,0	28,9	-2,0	4,0	3,0	26,0	28,8	-3,0	-1,0	4,0	26,0	28,8	-4,0	-1,0	3,0
39	09/08/2012 08.30	26,0	28,9	-2,0	2,0	2,0	26,0	28,9	-2,0	-1,0	3,0	26,0	28,8	-3,0	-5,0	7,0	26,0	28,8	-4,0	-4,0	6,0
40	29/08/2012 16.00	30,0	28,9	-2,0	3,0	2,0	30,0	28,9	-2,0	0,0	4,0	30,0	28,8	-2,0	-5,0	6,0	30,0	28,8	-3,0	-4,0	5,0
41	13/09/2012 15.00	22,0	28,9	0,0	3,0	4,0	22,0	28,9	-2,0	1,0	6,0	22,0	28,8	-3,0	-6,0	6,0	22,0	28,8	-3,0	-5,0	6,0
42	18/09/2012 15.00	19,0	28,9	0,0	5,0	5,0	19,0	28,9	-2,0	1,0	6,0	19,0	28,8	-2,0	-5,0	7,0	19,0	28,8	-3,0	-5,0	7,0
43	26/09/2012 15.00	30,0	28,9	0,0	2,0	5,0	30,0	28,9	-1,0	0,0	6,0	30,0	28,8	-1,0	-4,0	7,0	30,0	28,8	-2,0	-3,0	6,0
44	04/10/2012 09.00	18,0	28,9	0,0	2,0	4,0	18,0	28,9	0,0	-1,0	5,0	18,0	28,8	-2,0	-6,0	6,0	18,0	28,8	-3,0	-6,0	5,0
45	17/10/2012 08.30	14,0	28,9	0,0	2,0	5,0	14,0	28,9	-1,0	0,0	6,0	14,0	28,8	-4,0	-5,0	7,0	14,0	28,8	-4,0	-5,0	7,0
46	07/11/2012 08.30	14,0	28,9	-1,0	3,0	4,0	14,0	28,9	-2,0	1,0	5,0	14,0	28,8	-3,0	-4,0	8,0	14,0	28,8	-4,0	-3,0	7,0
47	27/11/2012 08.30	11,0	28,9	0,0	-2,0	2,0	11,0	28,9	-1,0	-3,0	3,0	11,0	28,8	-3,0	-5,0	8,0	11,0	28,8	-4,0	-5,0	8,0
48	17/12/2012 08.30	13,0	28,9	-1,0	1,0	5,0	13,0	28,9	-2,0	-1,0	5,0	13,0	28,8	-6,0	-6,0	8,0	13,0	28,8	-6,0	-5,0	7,0
49	09/01/2013 08.30	10,0	28,9	-1,0	-1,0	3,0	10,0	28,9	-2,0	-4,0	5,0	10,0	28,8	-4,0	-6,0	6,0	10,0	28,8	-4,0	-5,0	7,0
50	29/01/2013 08.30	8,0	28,9	0,0	1,0	4,0	8,0	28,9	-1,0	0,0	6,0	8,0	28,8	-4,0	-5,0	9,0	8,0	28,8	-5,0	-4,0	8,0
51	07/02/2013 15.00	8,0	28,9	1,0	0,0	5,0	8,0	28,9	0,0	-1,0	6,0	8,0	28,8	-3,0	-5,0	7,0	8,0	28,8	-3,0	-5,0	6,0
52	14/02/2013 08.30	6,0	28,9	0,0	0,0	3,0	6,0	28,9	-2,0	-2,0	4,0	6,0	28,8	-2,0	-5,0	9,0	6,0	28,8	-3,0	-4,0	9,0
53	19/02/2013 15.30	12,0	28,9	0,0	2,0	5,0	12,0	28,9	-1,0	1,0	6,0	12,0	28,8	-3,0	-5,0	8,0	12,0	28,8	-4,0	-5,0	7,0
54	27/02/2013 08.30	6,0	28,9	1,0	0,0	4,0	6,0	28,9	-1,0	-2,0	5,0	6,0	28,8	-2,0	-6,0	5,0	6,0	28,8	-4,0	-5,0	4,0
55	05/03/2013 10.30	12,0	28,9	0,0	2,0	6,0	12,0	28,9	-2,0	1,0	6,0	12,0	28,8	-3,0	-4,0	8,0	12,0	28,8	-3,0	-4,0	7,0
56	12/03/2013 08.30	10,0	28,9	1,0	3,0	5,0	10,0	28,9	-1,0	2,0	6,0	10,0	28,8	-3,0	-6,0	7,0	10,0	28,8	-3,0	-5,0	7,0
57	19/03/2013 16.00	16,0	28,9	1,0	4,0	7,0	16,0	28,9	-1,0	2,0	8,0	16,0	28,8	-2,							



Ubicazione STAZIONE CHIAIA
Opera \ \ Il Ordine di Tiranti \ 21-
Tipo Strumento Mire Ottiche
Data posa in opera 02/08/2011
Data lettura di zero 02/08/2011

UBICAZIONE

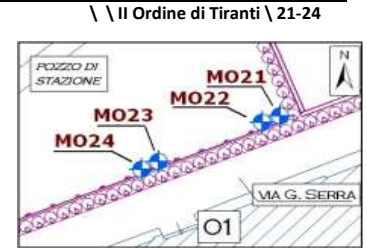


GRAFICO QUOTA

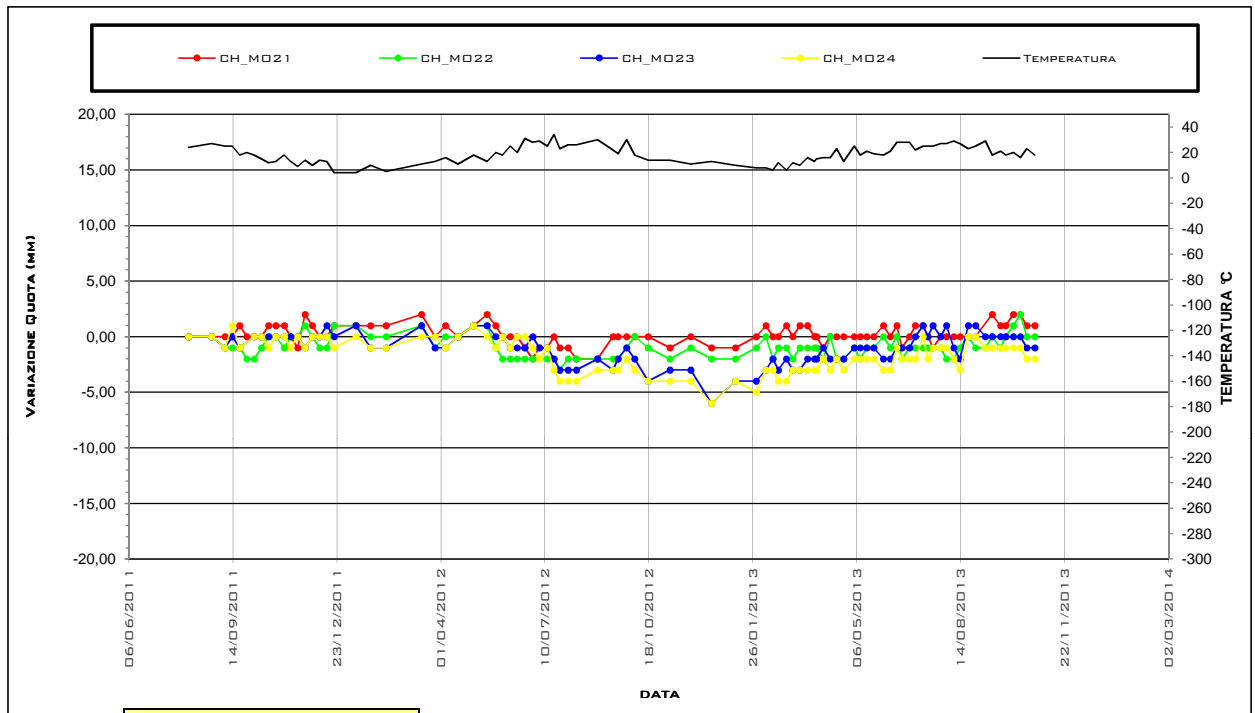
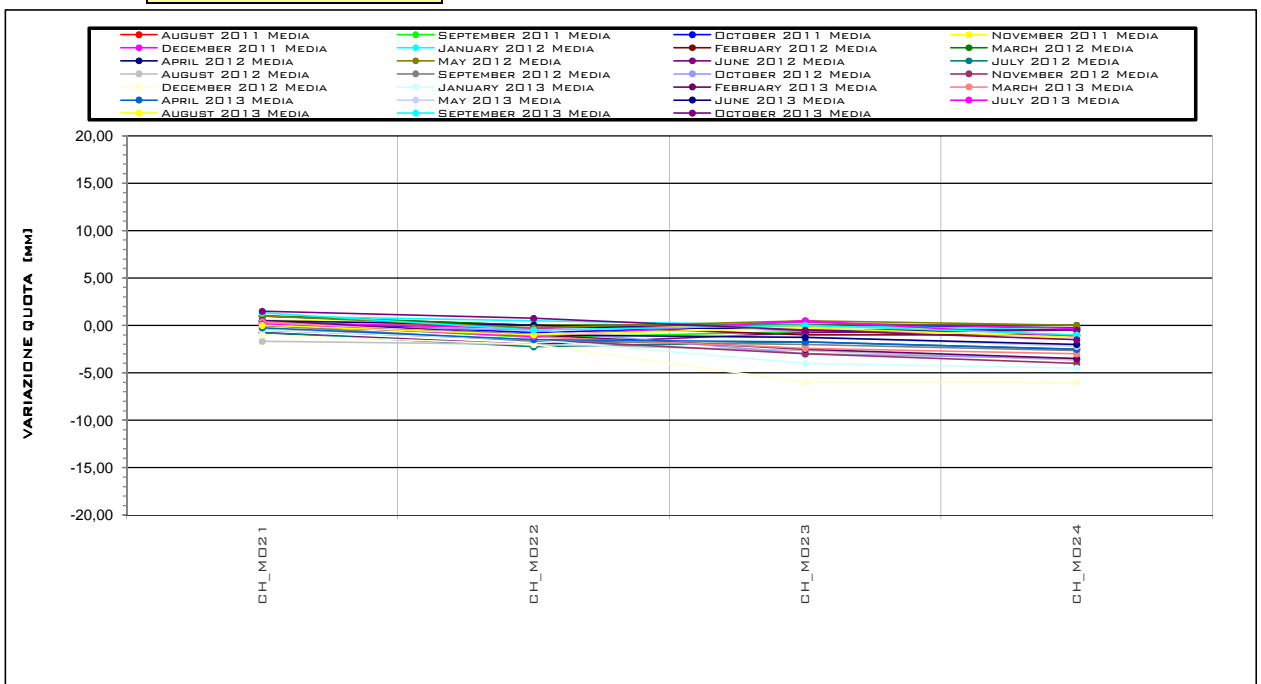


GRAFICO ISOCRONE





Ubicazione STAZIONE CHIAIA
Opera \ \ Il Ordine di Tiranti \ 21-
Tipo Strumento Mire Ottiche
Data posa in opera 02/08/2011
Data lettura di zero 02/08/2011

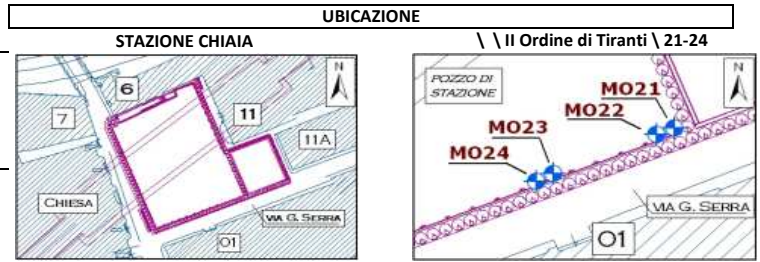


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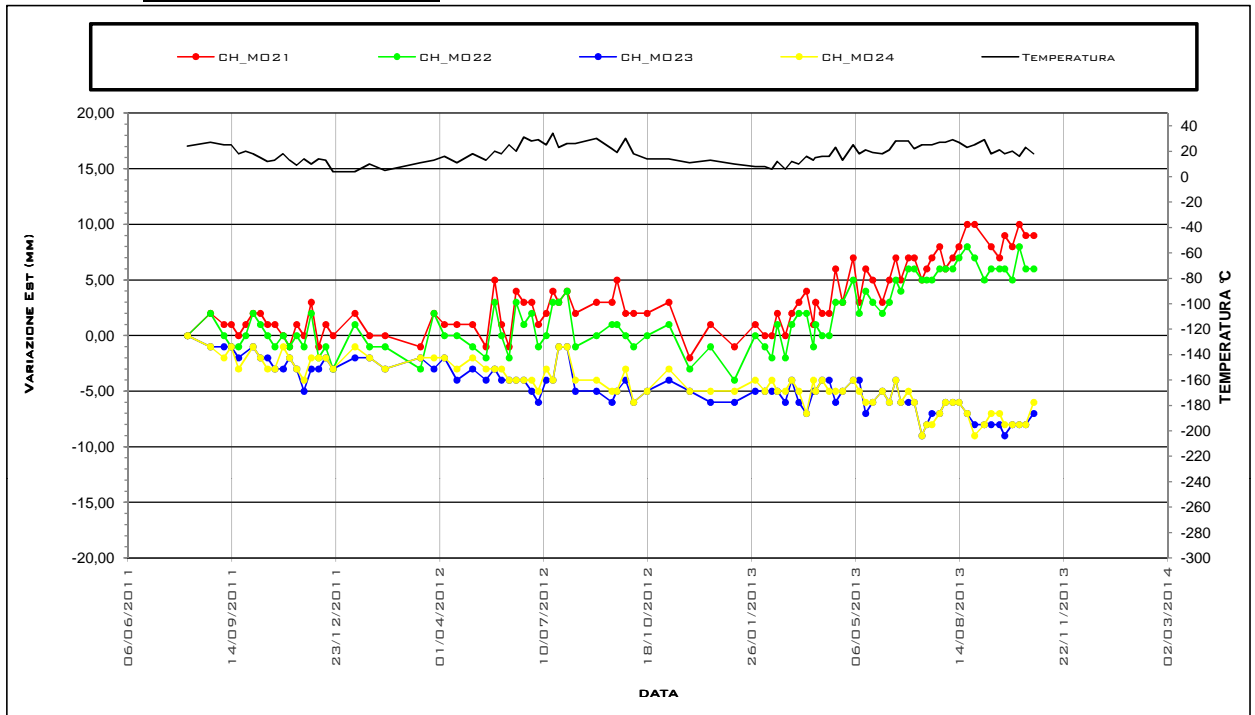
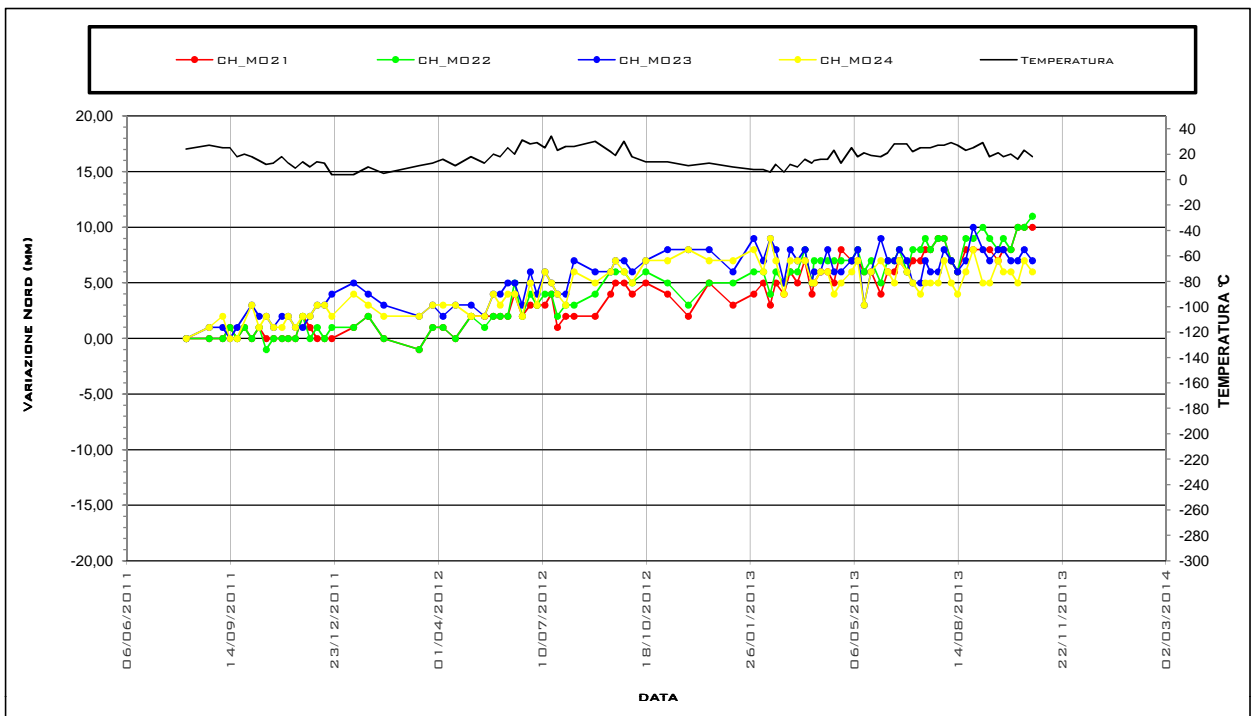


GRAFICO NORD





LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO

OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO
REPORT DELLE MISURE - STAZIONE CHIAIA

LM6 7FX 2C I 26
Data: 25/10/13
Metropolitana di Napoli A.T.I. LM6
TreEsse Engineering S.r.l.



Ubicazione STAZIONE CHIAIA

Opera \ \ II Ordine di Tiranti \ 25-28

Tipo Strumento Mire Ottiche

Data posa in opera 25/07/2011

Data lettura di zero 25/07/2011

Ultima Misura 92 in data 24/10/2013

Table with columns: Lett. n°, DATA, CH_M025, CH_M026, CH_M027, CH_M028. Each column contains sub-columns for Temp. Media, Quota, Quota Spost., Est. Spost., and Nord Spost. The table contains 92 rows of measurement data.



Ubicazione STAZIONE CHIAIA
Opera \ \ Il Ordine di Tiranti \ 25-
Tipo Strumento Mire Ottiche
Data posa in opera 25/07/2011
Data lettura di zero 25/07/2011

UBICAZIONE

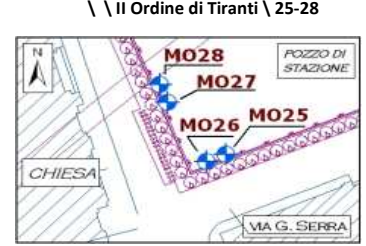


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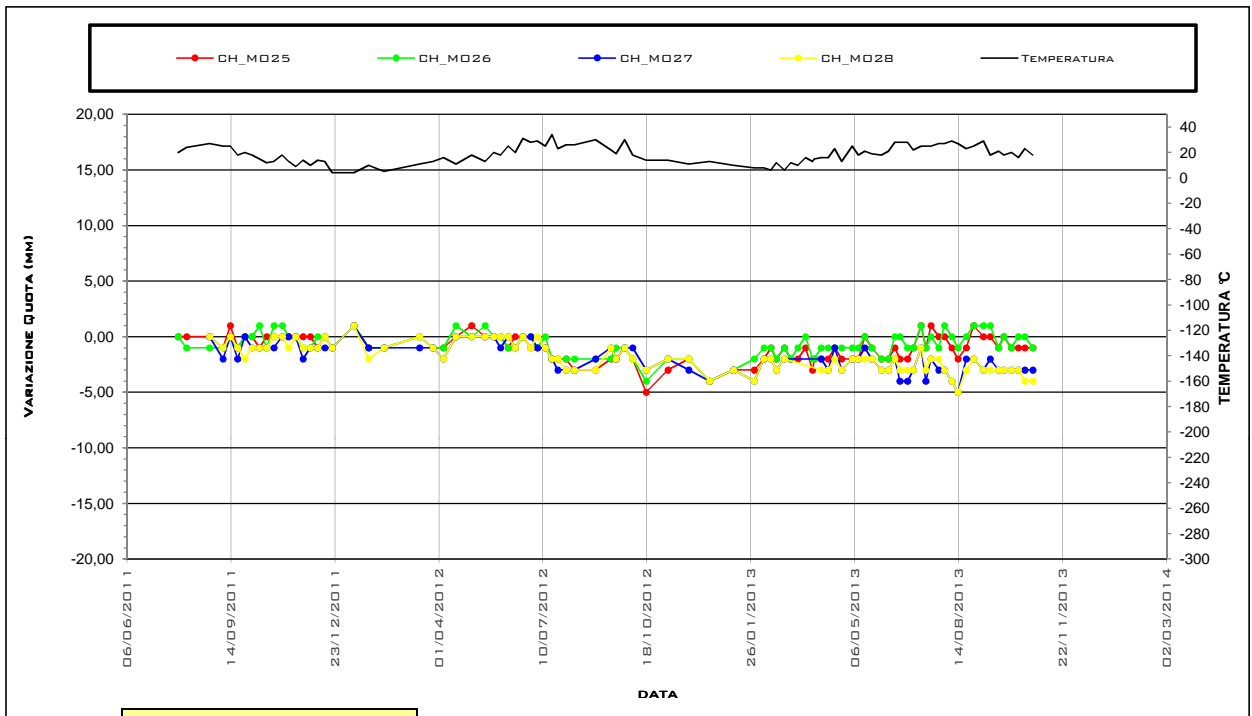
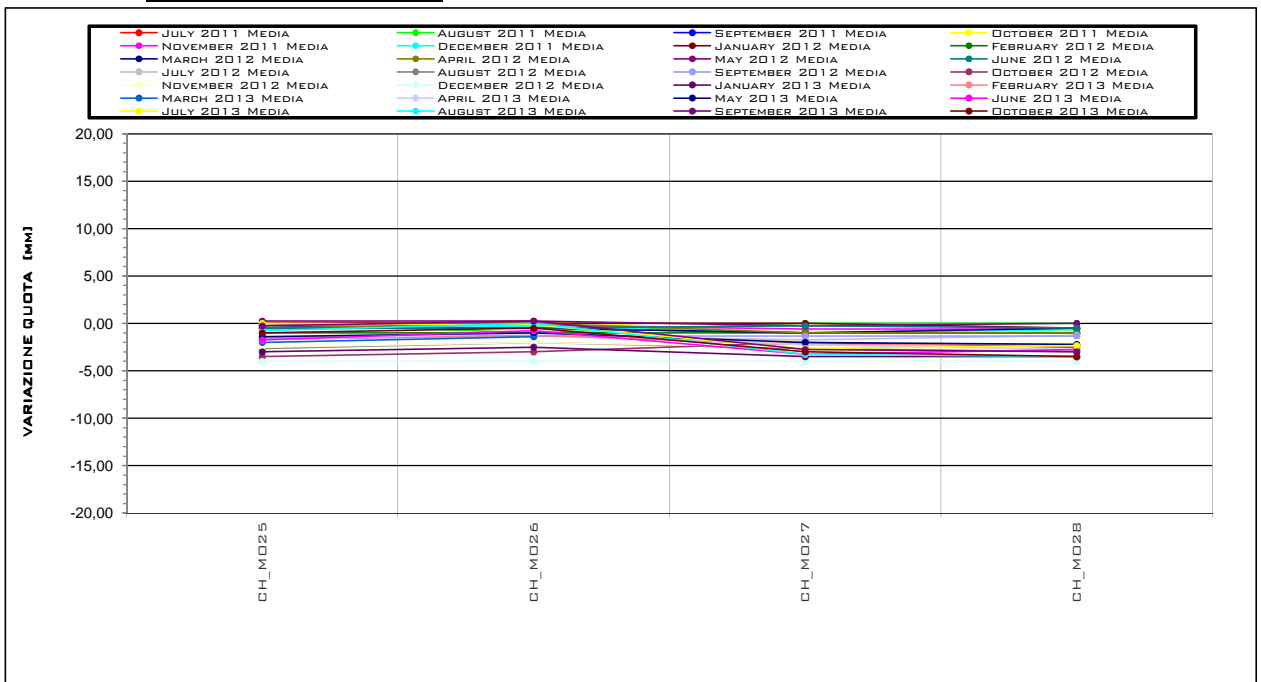


GRAFICO ISOCRONE





Ubicazione STAZIONE CHIAIA
Opera \ \ Il Ordine di Tiranti \ 25-
Tipo Strumento Mire Ottiche
Data posa in opera 25/07/2011
Data lettura di zero 25/07/2011

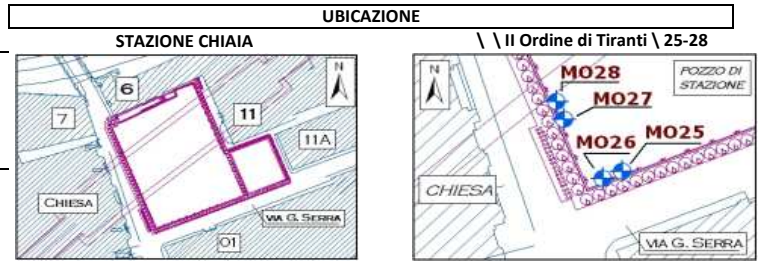


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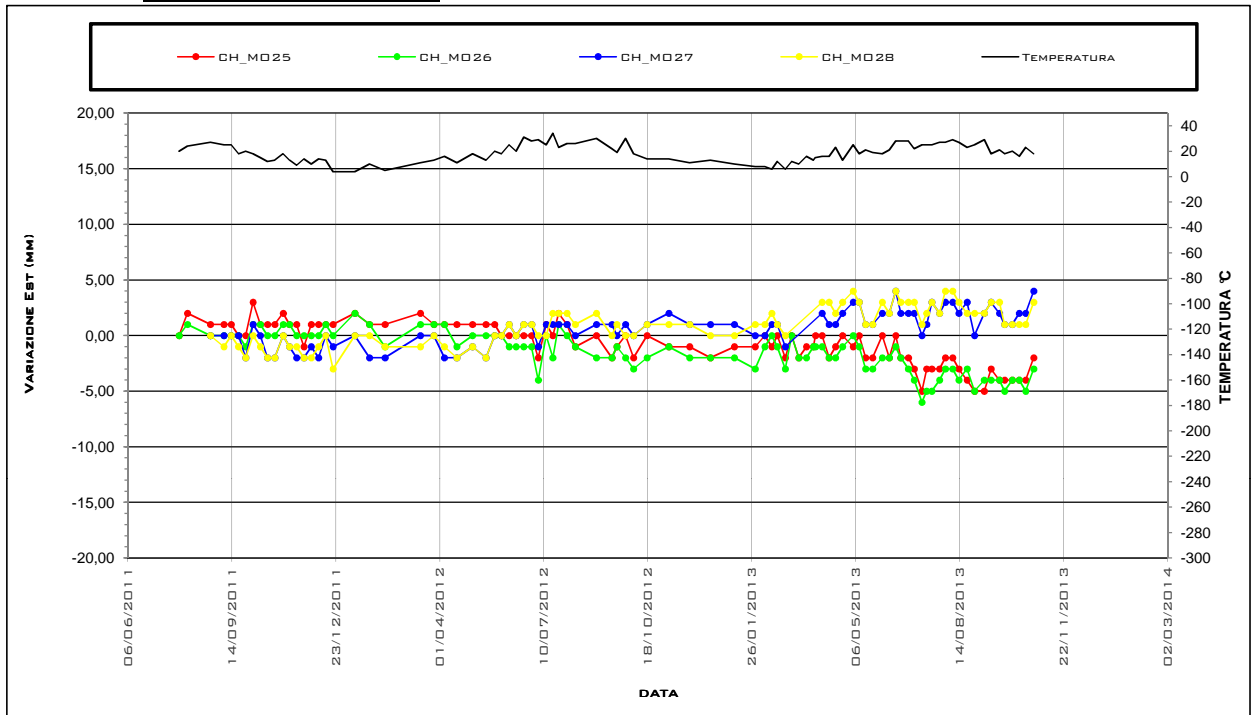
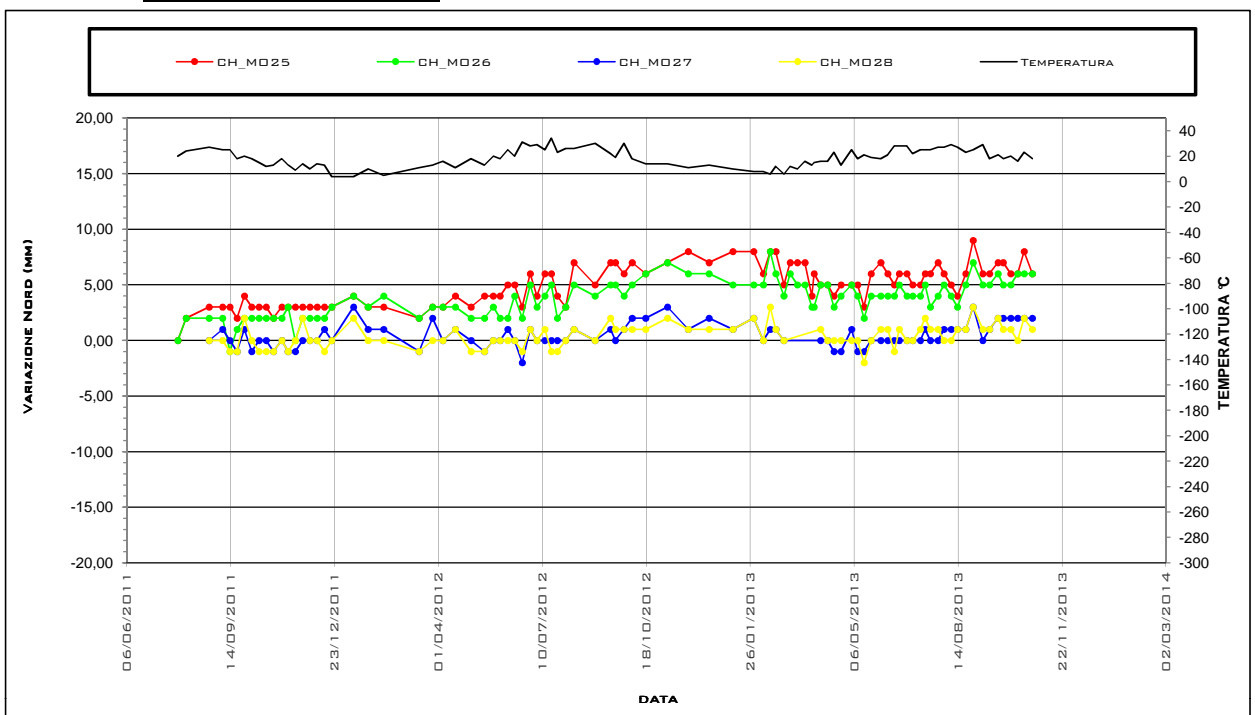


GRAFICO NORD





Ubicazione STAZIONE CHIAIA

Opera \ \ II Ordine di Tiranti \ 29-32

Tipo Strumento Mire Ottiche

Data posa in opera 24/08/2011

Data lettura di zero 24/08/2011

Ultima Misura 90 in data 24/10/2013

Let. n°	DATA	CH_M029					CH_M030					CH_M031					CH_M032						
		Temp. Media[C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media[C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media[C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media[C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]		
1	24/08/2011 08.01	27,0	30,0	0,0	0,0	0,0	27,0	30,0	0,0	0,0	0,0												
2	06/09/2011 08.00	25,0	30,0	-1,0	0,0	0,0	25,0	30,0	-1,0	-1,0	1,0												
3	13/09/2011 08.00	25,0	30,0	0,0	0,0	-1,0	25,0	30,0	0,0	0,0	0,0												
4	20/09/2011 08.00	18,0	30,0	-1,0	0,0	0,0	18,0	30,0	-1,0	-1,0	-1,0												
5	27/09/2011 08.00	20,0	30,0	0,0	0,0	1,0	20,0	30,0	0,0	-1,0	1,0												
6	04/10/2011 08.00	18,0	30,0	0,0	1,0	-1,0	18,0	30,0	0,0	0,0	0,0												
7	11/10/2011 08.00	15,0	30,0	0,0	0,0	0,0	15,0	30,0	0,0	-1,0	0,0												
8	18/10/2011 08.00	12,0	30,0	0,0	0,0	0,0	12,0	30,0	0,0	0,0	1,0												
9	25/10/2011 08.00	13,0	30,0	0,0	-1,0	-1,0	13,0	30,0	0,0	-1,0	1,0												
10	02/11/2011 10.00	18,0	30,0	1,0	1,0	1,0	18,0	30,0	0,0	1,0	1,0												
11	08/11/2011 08.00	13,0	30,0	-1,0	0,0	0,0	13,0	30,0	-1,0	0,0	1,0												
12	15/11/2011 08.00	9,0	30,0	-1,0	-1,0	-1,0	9,0	30,0	0,0	-1,0	0,0												
13	22/11/2011 08.00	14,0	30,0	-2,0	-2,0	0,0	14,0	30,0	-1,0	-1,0	1,0												
14	29/11/2011 08.00	10,0	30,0	-2,0	0,0	0,0	10,0	30,0	-1,0	-1,0	1,0												
15	29/11/2011 08.01																						
16	06/12/2011 08.00	14,0	30,0	-1,0	0,0	1,0	14,0	30,0	0,0	0,0	1,0	10,0	27,9	0,0	0,0	0,0	10,0	28,0	0,0	0,0	0,0	0,0	0,0
17	13/12/2011 08.00	13,0	30,0	0,0	0,0	0,0	13,0	30,0	0,0	-1,0	-1,0	13,0	27,9	1,0	0,0	0,0	13,0	28,0	0,0	0,0	0,0	0,0	0,0
18	20/12/2011 08.00	4,0	30,0	0,0	-1,0	0,0	4,0	30,0	0,0	-1,0	2,0	4,0	27,9	1,0	1,0	2,0	4,0	28,0	0,0	-1,0	0,0	0,0	0,0
19	10/01/2012 08.00	4,0	30,0	1,0	1,0	1,0	4,0	30,0	1,0	0,0	2,0	4,0	27,9	2,0	1,0	1,0	4,0	28,0	1,0	1,0	0,0	0,0	0,0
20	24/01/2012 08.00	10,0	30,0	-2,0	1,0	0,0	10,0	30,0	-1,0	0,0	0,0	10,0	27,9	1,0	1,0	2,0	10,0	28,0	-1,0	1,0	1,0	0,0	0,0
21	08/02/2012 08.00	5,0	30,0	-1,0	0,0	0,0	5,0	30,0	-1,0	0,0	1,0	5,0	27,9	1,0	1,0	1,0	5,0	28,0	0,0	1,0	1,0	0,0	0,0
22	13/03/2012 08.00	11,0	30,0	0,0	0,0	0,0	11,0	30,0	0,0	0,0	0,0	11,0	27,9	1,0	3,0	1,0	11,0	28,0	1,0	1,0	0,0	0,0	0,0
23	26/03/2012 08.00	13,0	30,0	-1,0	1,0	0,0	13,0	30,0	-1,0	0,0	1,0	13,0	27,9	0,0	1,0	1,0	13,0	28,0	-1,0	0,0	0,0	0,0	0,0
24	05/04/2012 08.00	16,0	30,0	-1,0	0,0	0,0	16,0	30,0	-1,0	0,0	0,0	16,0	27,9	0,0	1,0	0,0	16,0	28,0	0,0	0,0	-1,0	0,0	-1,0
25	17/04/2012 08.00	11,0	30,0	0,0	0,0	1,0	11,0	30,0	0,0	-1,0	1,0	11,0	27,9	2,0	1,0	1,0	11,0	28,0	0,0	1,0	0,0	1,0	0,0
26	02/05/2012 10.30	18,0	30,0	0,0	0,0	0,0	18,0	30,0	1,0	0,0	0,0	18,0	27,9	2,0	1,0	0,0	18,0	28,0	1,0	1,0	0,0	1,0	0,0
27	15/05/2012 08.30	13,0	30,0	0,0	-1,0	-1,0	13,0	30,0	0,0	-1,0	-1,0	13,0	27,9	2,0	1,0	-1,0	13,0	28,0	1,0	0,0	0,0	0,0	0,0
28	23/05/2012 17.30	20,0	30,0	1,0	0,0	1,0	20,0	30,0	0,0	0,0	0,0	20,0	27,9	2,0	1,0	0,0	20,0	28,0	1,0	1,0	0,0	1,0	0,0
29	30/05/2012 08.30	18,0	30,0	0,0	0,0	0,0	18,0	30,0	0,0	0,0	1,0	18,0	27,9	1,0	1,0	0,0	18,0	28,0	1,0	1,0	0,0	1,0	0,0
30	06/06/2012 16.30	25,0	30,0	0,0	0,0	1,0	25,0	30,0	0,0	0,0	1,0	25,0	27,9	2,0	1,0	0,0	25,0	28,0	1,0	1,0	0,0	1,0	0,0
31	13/06/2012 08.30	20,0	30,0	0,0	1,0	1,0	20,0	30,0	0,0	1,0	1,0	20,0	27,9	2,0	2,0	1,0	20,0	28,0	-1,0	1,0	1,0	1,0	1,0
32	20/06/2012 16.30	31,0	30,0	1,0	1,0	-1,0	31,0	30,0	1,0	1,0	0,0	31,0	27,9	2,0	1,0	-1,0	31,0	28,0	0,0	1,0	1,0	-1,0	-1,0
33	28/06/2012 08.30	28,0	30,0	0,0	1,0	1,0	28,0	30,0	1,0	1,0	2,0	28,0	27,9	3,0	2,0	1,0	28,0	28,0	1,0	1,0	1,0	1,0	1,0
34	04/07/2012 19.30	29,0	30,0	0,0	0,0	0,0	29,0	30,0	0,0	0,0	1,0	29,0	27,9	2,0	2,0	1,0	29,0	28,0	1,0	1,0	1,0	1,0	1,0
35	12/07/2012 08.30	25,0	30,0	0,0	2,0	2,0	25,0	30,0	1,0	1,0	1,0	25,0	27,9	3,0	1,0	0,0	25,0	28,0	1,0	1,0	-1,0	-1,0	-1,0
36	18/07/2012 16.30	34,0	30,0	-1,0	2,0	1,0	34,0	30,0	-1,0	1,0	1,0	34,0	27,9	2,0	1,0	0,0	34,0	28,0	0,0	2,0	-2,0	-2,0	-2,0
37	24/07/2012 09.00	23,0	30,0	-1,0	2,0	1,0	23,0	30,0	-1,0	1,0	1,0	23,0	27,9	1,0	-1,0	-1,0	23,0	28,0	0,0	1,0	0,0	1,0	0,0
38	01/08/2012 09.00	26,0	30,0	-2,0	2,0	0,0	26,0	30,0	-1,0	2,0	2,0	26,0	27,9	1,0	0,0	0,0	26,0	28,0	-1,0	2,0	-1,0	-1,0	-1,0
39	09/08/2012 08.30	26,0	30,0	-2,0	2,0	0,0	26,0	30,0	-1,0	0,0	1,0	26,0	27,9	2,0	0,0	0,0	26,0	28,0	0,0	0,0	-1,0	-1,0	-1,0
40	29/08/2012 16.00	30,0	30,0	-2,0	2,0	0,0	30,0	30,0	-1,0	1,0	-1,0	30,0	27,9	1,0	2,0	-1,0	30,0	28,0	0,0	0,0	-1,0	-1,0	-1,0
41	13/09/2012 15.00	22,0	30,0	0,0	0,0	1,0	22,0	30,0	0,0	0,0	1,0	22,0	27,9	2,0	1,0	0,0	22,0	28,0	2,0	1,0	0,0	0,0	0,0
42	18/09/2012 15.00	19,0	30,0	-1,0	1,0	1,0	19,0	30,0	-1,0	0,0	1,0	19,0	27,9	1,0	0,0	0,0	19,0	28,0	1,0	0,0	-1,0	-1,0	-1,0
43	26/09/2012 15.00	30,0	30,0	-1,0	2,0	0,0	30,0	30,0	0,0	1,0	1,0	30,0	27,9	3,0	3,0	0,0	30,0	28,0	1,0	2,0	0,0	0,0	0,0
44	04/10/2012 09.00	18,0	30,0	0,0	0,0	2,0	18,0	30,0	-1,0	-1,0	1,0	18,0	27,9	2,0	1,0	1,0	18,0	28,0	1,0	0,0	0,0	0,0	0,0
45	17/10/2012 08.30	14,0	30,0	-2,0	1,0	1,0	14,0	30,0	-2,0	1,0	1,0	14,0	27,9	1,0	2,0	1,0	14,0	28,0	0,0	1,0	1,0	1,0	1,0
46	07/11/2012 08.30	14,0	30,0	-1,0	3,0	3,0	14,0	30,0	-2,0	2,0	2,0	14,0	27,9	2,0	4,0	2,0	14,0	28,0	1,0	2,0	1,0	1,0	1,0
47	27/11/2012 08.30	11,0	30,0	-2,0	2,0	2,0	11,0	30,0	-1,0	1,0	2,0	11,0	27,9	2,0	2,0	1,0	11,0	28,0	1,0	1,0	0,0	0,0	0,0
48	17/12/2012 08.30	13,0	30,0	-3,0	1,0	1,0	13,0	30,0	-3,0	0,0	1,0	13,0	27,9	0,0	1,0	0,0	13,0	28,0	-1,0	1,0	1,0	1,0	1,0
49	09/01/2013 08.30	10,0	30,0	-2,0	1,0	1,0	10,0	30,0	-1,0	1,0	1,0	10,0	27,9	0,0	1,0	1,0	10,0	28,0	0,0	0,0	0,0	0,0	0,0
50	29/01/2013 08.30	8,0	30,0	-3,0	2,0	2,0	8,0	30,0	-3,0	0,0	2,0	8,0	27,9	1,0	2,0	2,0	8,0	28,0	-1,0	1,0	1,0	1,0	1,0
51	07/02/2013 15.00	8,0	30,0	-1,0	2,0	1,0	8,0	30,0	-1,0	2,0	1,0	8,0	27,9	1,0	2,0	-1,0	8,0	28,0	0,0	1,0	-1,0	-1,0	-1,0
52	14/02/2013 08.30	6,0	30,0	-2,0	2,0	2,0	6,0	30,0	-2,0	2,0	2,0	6,0	27,9	1,0	2,0	1,0	6,0	28,0	1,0	3,0	1,0	3,0	1,0
53	19/02/2013 15.30	12,0	30,0	-2,0	3,0	2,0	12,0	30,0	-2,0	4,0	3,0	12,0	27,9	0,0	3,0	1,0	12,0	28,0	-1,0	2,0	1,0	1,0	1,0
54	27/02/2013 08.30	6,0	30,0	-2,0	2,0	1,0	6,0	30,0	-1,0	1,0	2,0	6,0	27,9	1,0	2,0	1,0	6,0	28,0	1,0	3,0	0,0	3,0	0,0
55	05/03/2013 10.30	12,0	30,0	-2,0	4,0	2,0	12,0	30,0	-2,0	3,0	1,0	12,0	27,9	1,0	2,0	-1,0	12,0	28,0	0,0	2,0	-1,0	-1,0	-1,0
56	12/03/2013 08.30	10,0	30,0	-2,0	2,0	2,0	10,0	30,0	-2,0	2,0	2,0	10,0	27,9	1,0	3,0	1,0	10,0	28,0	0,0	1,0	0,0	0,0	0,0
57	19/03/2013 16.00	16,0	30,0	-2,0	2,0	1,0	16,0	30,0	-2,0	2,0	2,0	16,0	2										



Ubicazione STAZIONE CHIAIA
Opera \ \ Il Ordine di Tiranti \ 29-
Tipo Strumento Mire Ottiche
Data posa in opera 24/08/2011
Data lettura di zero 24/08/2011

UBICAZIONE
STAZIONE CHIAIA \ \ Il Ordine di Tiranti \ 29-32

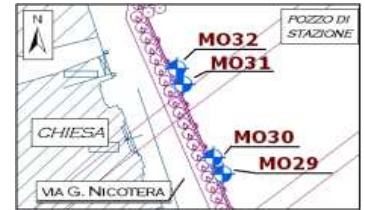
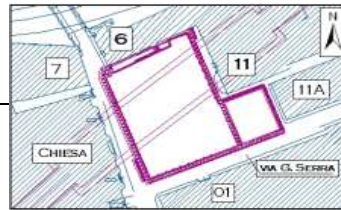


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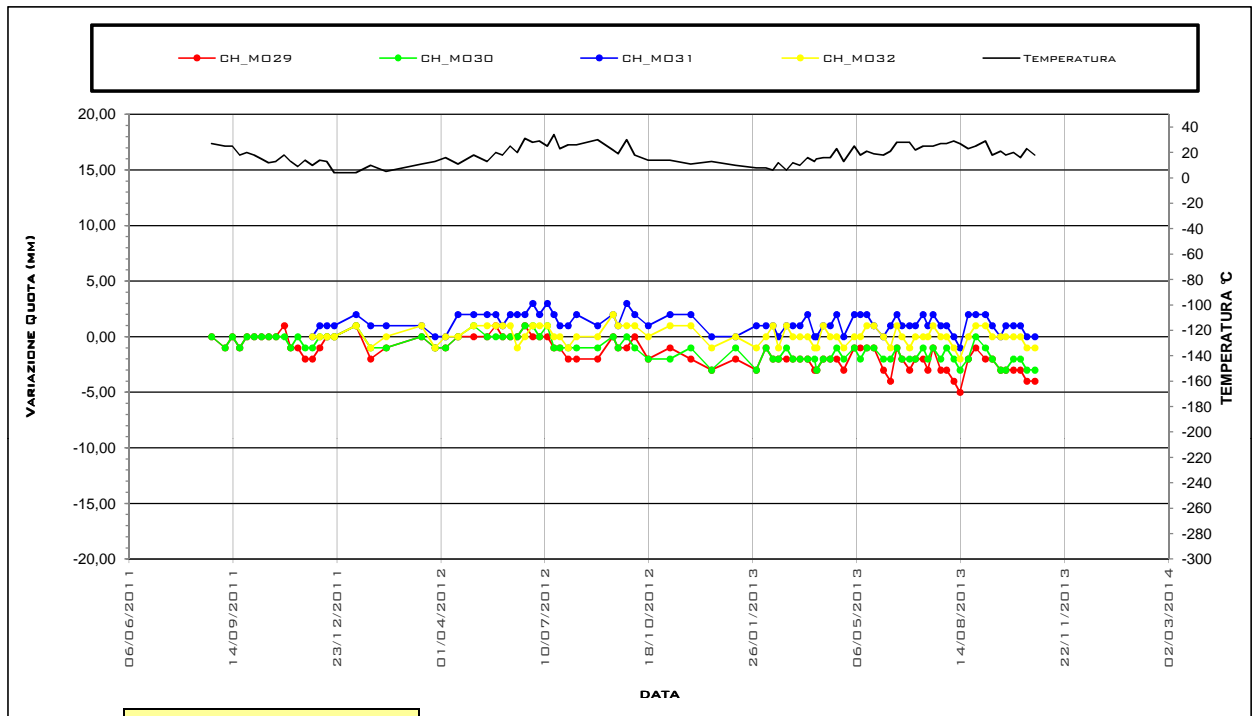
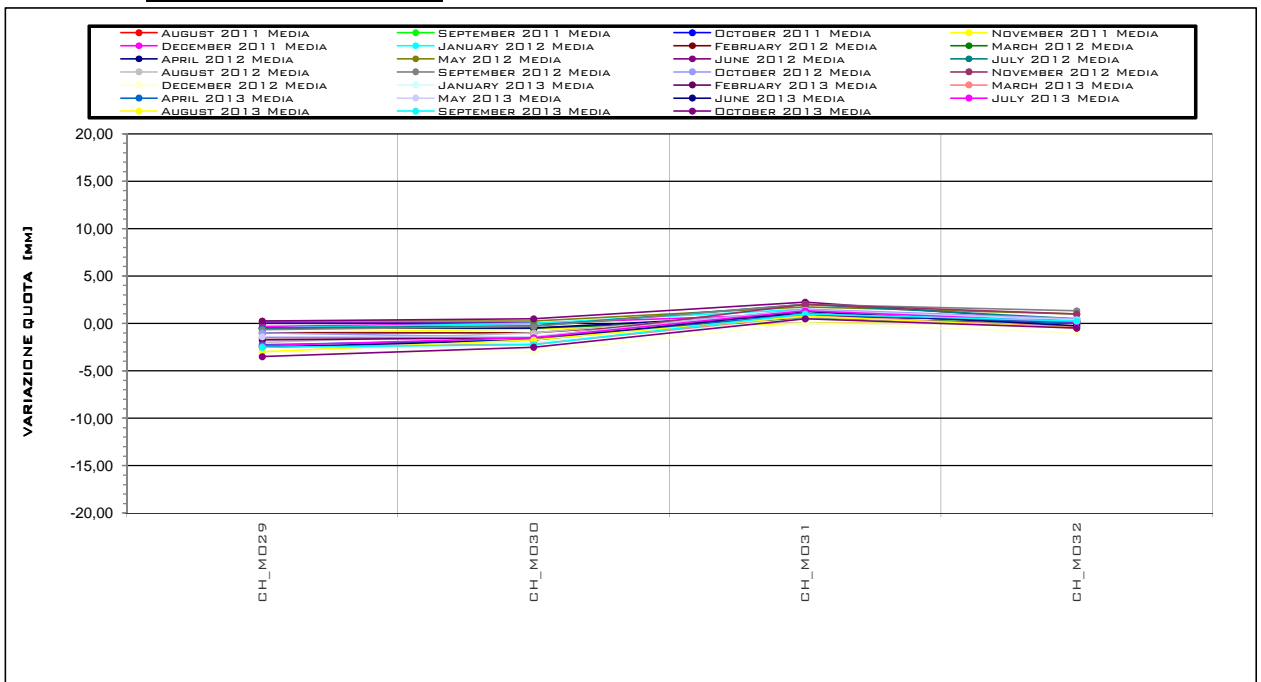


GRAFICO ISOCRONE





Ubicazione STAZIONE CHIAIA
Opera \ \ Il Ordine di Tiranti \ 29-
Tipo Strumento Mire Ottiche
Data posa in opera 24/08/2011
Data lettura di zero 24/08/2011

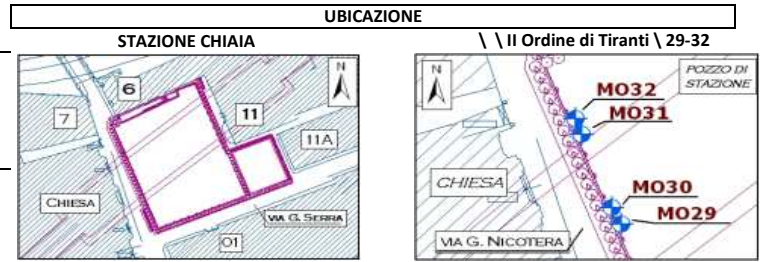


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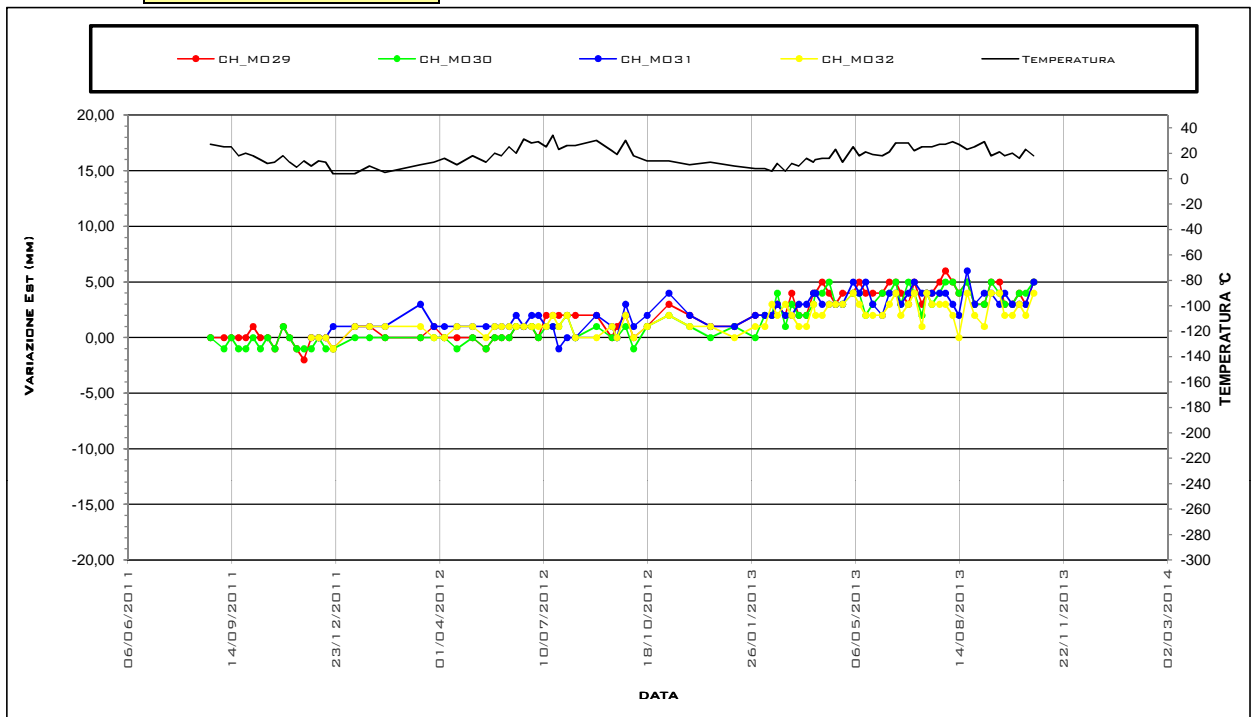
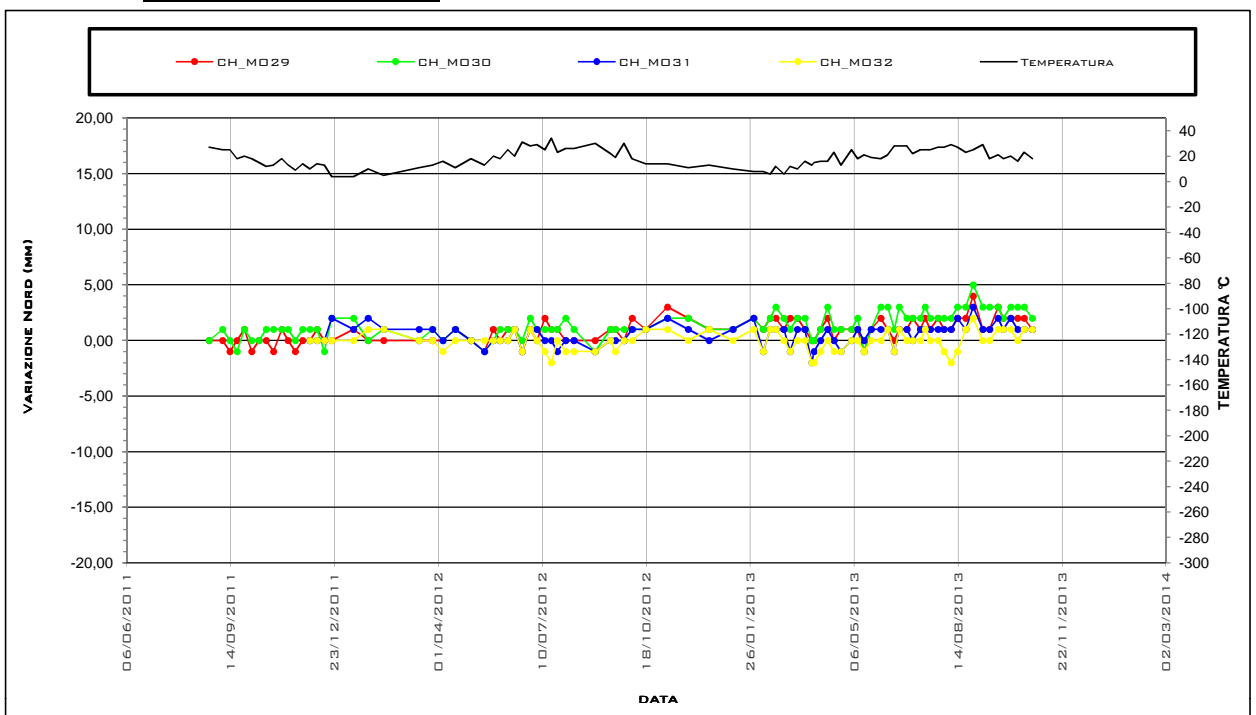


GRAFICO NORD





Ubicazione STAZIONE CHIAIA

Opera \ \ III Ordine - Tufo \ 33-37

Tipo Strumento Mire Ottiche

Data posa in opera 12/07/2012

Data lettura di zero 12/07/2012

Ultima Misura 56 in data 24/10/2013

Lett. n°	DATA	CH_M033					CH_M034					CH_M035					CH_M037A					
		Temp. Media[°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media[°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media[°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media[°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	
1	12/07/2012 08.30	25,0	14,4	0,0	0,0	0,0																
2	18/07/2012 16.30	34,0	14,4	-1,0	-1,0	-1,0	34,0	11,6	0,0	0,0	0,0											
3	24/07/2012 09.00	23,0	14,4	-1,0	1,0	-2,0	23,0	11,6	-2,0	1,0	-1,0											
4	01/08/2012 09.00	26,0	14,4	-2,0	1,0	-3,0	26,0	11,6	-3,0	1,0	-2,0											
5	09/08/2012 08.30	26,0	14,4	-2,0	-1,0	0,0	26,0	11,6	-1,0	0,0	1,0											
6	29/08/2012 16.00	30,0	14,4	-2,0	-1,0	-1,0	30,0	11,6	-3,0	0,0	0,0											
7	13/09/2012 15.00	22,0	14,4	-2,0	-1,0	-2,0	22,0	11,6	0,0	0,0	3,0	22,0	11,8	0,0	0,0	0,0						
8	18/09/2012 08.00	19,0	14,4	0,0	0,0	0,0	19,0	11,6	0,0	-1,0	2,0	19,0	11,8	0,0	0,0	0,0						
9	26/09/2012 15.00	30,0	14,4	-1,0	-1,0	0,0	30,0	11,6	0,0	-1,0	2,0	30,0	11,8	-1,0	0,0	0,0						
10	04/10/2012 09.00	18,0	14,4	-2,0	-3,0	-1,0	18,0	11,6	1,0	-1,0	3,0	18,0	11,8	0,0	-2,0	-1,0						
11	17/10/2012 08.30	14,0	14,4	-1,0	-1,0	-1,0	14,0	11,6	-1,0	-1,0	2,0	14,0	11,8	0,0	0,0	0,0						
12	07/11/2012 08.30	14,0	14,4	0,0	-1,0	0,0	14,0	11,6	-1,0	1,0	3,0	14,0	11,8	-1,0	1,0	0,0						
13	27/11/2012 08.30	11,0	14,4	0,0	-2,0	0,0	11,0	11,6	0,0	0,0	3,0	11,0	11,8	-1,0	-3,0	-2,0						
14	17/12/2012 08.30	13,0	14,4	-2,0	-1,0	0,0	13,0	11,6	-3,0	-1,0	3,0	13,0	11,8	-1,0	0,0	0,0						
15	09/01/2013 08.30	10,0	14,4	-1,0	-2,0	-1,0	10,0	11,6	-1,0	-2,0	3,0	10,0	11,8	-1,0	-3,0	-1,0						
16	29/01/2013 08.30	8,0	14,4	-1,0	-1,0	-1,0	8,0	11,6	-1,0	0,0	1,0	8,0	11,8	0,0	0,0	0,0						
17	07/02/2013 15.00	8,0	14,4	0,0	-1,0	-2,0	8,0	11,6	0,0	-1,0	-1,0	8,0	11,8	1,0	-1,0	1,0						
18	14/02/2013 08.30	6,0	14,4	-1,0	0,0	-1,0	6,0	11,6	0,0	-1,0	0,0	6,0	11,8	-1,0	-1,0	0,0						
19	19/02/2013 15.30	12,0	14,4	-2,0	-1,0	-1,0	12,0	11,6	-1,0	-1,0	1,0	12,0	11,8	0,0	1,0	0,0						
20	27/02/2013 08.30	6,0	14,4	-1,0	-4,0	-4,0	6,0	11,6	0,0	-2,0	0,0	6,0	11,8	-1,0	-1,0	0,0						
21	05/03/2013 10.30	12,0	14,4	-1,0	-2,0	-1,0	12,0	11,6	1,0	-2,0	2,0	12,0	11,8	-1,0	0,0	0,0						
22	12/03/2013 08.30	10,0	14,4	0,0	-1,0	-2,0	10,0	11,6	1,0	-1,0	2,0	10,0	11,8	2,0	0,0	1,0						
23	19/03/2013 16.00	16,0	14,4	0,0	-3,0	-3,0	16,0	11,6	1,0	-2,0	1,0	16,0	11,8	0,0	3,0	1,0						
24	26/03/2013 08.30	13,0	14,4	-1,0	0,0	-4,0	13,0	11,6	0,0	0,0	-1,0	13,0	11,8	0,0	0,0	0,0						
25	28/03/2013 11.00	15,0	14,4	-2,0	-1,0	-4,0	15,0	11,6	-1,0	0,0	-1,0	15,0	11,8	1,0	1,0	1,0						
26	03/04/2013 17.30	16,0	14,4	1,0	1,0	-3,0	16,0	11,6	0,0	0,0	-1,0	16,0	11,8	-1,0	1,0	2,0						
27	10/04/2013 10.30	16,0	14,4	0,0	0,0	-2,0	16,0	11,6	0,0	0,0	1,0	16,0	11,8	0,0	0,0	1,0						
28	16/04/2013 15.00	23,0	14,4	0,0	-2,0	-3,0	23,0	11,6	1,0	-2,0	-1,0	23,0	11,8	0,0	3,0	0,0						
29	23/04/2013 08.30	13,0	14,4	-1,0	0,0	-2,0	13,0	11,6	0,0	0,0	-1,0	13,0	11,8	0,0	2,0	2,0						
30	03/05/2013 14.30	25,0	14,4	1,0	1,0	-3,0	25,0	11,6	1,0	1,0	1,0	25,0	11,8	0,0	4,0	3,0						
31	09/05/2013 08.30	18,0	14,4	1,0	1,0	-2,0	18,0	11,6	1,0	0,0	1,0	18,0	11,8	-1,0	2,0	2,0						
32	15/05/2013 14.30	21,0	14,4	2,0	-2,0	-3,0	21,0	11,6	1,0	-1,0	-2,0	21,0	11,8	-1,0	4,0	1,0						
33	22/05/2013 08.30	19,0	14,4	1,0	-1,0	-2,0	19,0	11,6	0,0	-1,0	0,0	19,0	11,8	-1,0	3,0	1,0						
34	31/05/2013 15.30	18,0	14,4	-1,0	1,0	0,0	18,0	11,6	0,0	1,0	1,0	18,0	11,8	1,0	1,0	0,0						
35	07/06/2013 08.30	21,0	14,4	0,0	-2,0	-2,0	21,0	11,6	0,0	-1,0	1,0	21,0	11,8	-1,0	2,0	2,0						
36	13/06/2013 14.30	28,0	14,4	1,0	0,0	-3,0	28,0	11,6	2,0	2,0	0,0	28,0	11,8	1,0	3,0	1,0						
37	18/06/2013 09.00	28,0	14,4	1,0	-1,0	-1,0	28,0	11,6	1,0	-1,0	1,0	28,0	11,8	0,0	1,0	2,0						
38	25/06/2013 18.00	28,0	14,4	1,0	-1,0	-1,0	28,0	11,6	0,0	-2,0	0,0											
39	01/07/2013 07.30	22,0	14,4	0,0	-2,0	-1,0	22,0	11,6	0,0	-2,0	1,0	22,0	11,8	1,0	4,0	3,0	22,0	10,6	0,0	0,0	0,0	0,0
40	08/07/2013 17.30	25,0	14,4	0,0	-5,0	-2,0	25,0	11,6	1,0	-5,0	-1,0	25,0	11,8	2,0	4,0	4,0	25,0	10,6	-1,0	-2,0	0,0	0,0
41	13/07/2013 07.30	25,0	14,4	-1,0	-3,0	-1,0	25,0	11,6	0,0	-4,0	2,0	25,0	11,8	0,0	4,0	3,0	25,0	10,6	-1,0	0,0	2,0	0,0
42	18/07/2013 07.30	25,0	14,4	1,0	-3,0	-1,0	25,0	11,6	1,0	-3,0	0,0	25,0	11,8	0,0	4,0	3,0	25,0	10,6	-1,0	-1,0	1,0	1,0
43	25/07/2013 18.00	27,0	14,4	0,0	-2,0	-1,0	27,0	11,6	0,0	-3,0	-1,0	27,0	11,8	1,0	5,0	4,0	27,0	10,6	-1,0	1,0	2,0	2,0
44	31/07/2013 09.00	27,0	14,4	0,0	0,0	-1,0	27,0	11,6	1,0	-1,0	0,0	27,0	11,8	-1,0	4,0	5,0	27,0	10,6	-2,0	-1,0	2,0	2,0
45	07/08/2013 09.00	29,0	14,4	-1,0	0,0	-2,0	29,0	11,6	0,0	-1,0	-1,0	29,0	11,8	-1,0	4,0	3,0	29,0	10,6	-3,0	1,0	0,0	0,0
46	13/08/2013 09.00	27,0	14,4	-2,0	-1,0	-3,0	27,0	11,6	-1,0	-2,0	-2,0	27,0	11,8	0,0	5,0	2,0	27,0	10,6	-3,0	2,0	-1,0	-1,0
47	21/08/2013 07.30	23,0	14,4	1,0	-2,0	0,0	23,0	11,6	1,0	-1,0	2,0	23,0	11,8	1,0	7,0	3,0	23,0	10,6	-1,0	2,0	2,0	2,0
48	28/08/2013 10.30	25,0	14,4	1,0	-3,0	1,0	25,0	11,6	2,0	-4,0	4,0	25,0	11,8	1,0	6,0	4,0	25,0	10,6	-1,0	3,0	3,0	3,0
49	06/09/2013 17.30	29,0	14,4	1,0	-3,0	-1,0	29,0	11,6	0,0	-3,0	1,0	29,0	11,8	2,0	6,0	3,0						
50	13/09/2013 07.30	18,0	14,4	0,0	-2,0	-2,0	18,0	11,6	0,0	-2,0	0,0	18,0	11,8	1,0	6,0	4,0	18,0	10,6	1,0	-1,0	2,0	2,0
51	21/09/2013 09.30	21,0	14,4	-1,0	-2,0	0,0	21,0	11,6	1,0	-2,0	2,0	21,0	11,8	2,0	7,0	3,0	21,0	10,6	-1,0	2,0	0,0	0,0
52	26/09/2013 09.30	18,0	14,4	0,0	-3,0	0,0	18,0	11,6	1,0	-3,0	1,0	18,0	11,8	2,0	7,0	4,0	18,0	10,6	2,0	-1,0	2,0	2,0
53	03/10/2013 16.30	20,0	14,4	0,0	-3,0	0,0	20,0	11,6	1,0	-2,0	2,0	20,0	11,8	2,0	6,0	3,0	20,0	10,6	2,0	-2,0	2,0	2,0
54	10/10/2013 08.30	16,0	14,4	0,0	-2,0	-2,0	16,0	11,6	1,0	-2,0	2,0	16,0	11,8	3,0	7,0	5,0	16,0	10,6	3,0	0,0	3,0	3,0
55	16/10/2013 14.30	23,0	14,4	-1,0	-3,0	0,0	23,0	11,6	1,0	-2,0	3,0	23,0	11,8	2,0	5,0	4,0	23,0	10,6	1,0	-1,0	2,0	2,0
56	24/10/2013 08.30	18,0	14,4	-1,0	-2,0	-1,0	18,0	11,6	1,0	0,0	1,0	18,0	11,8	2,0	5,0	6,0	18,0	10,6	0,0	0,0	3,0	3,0



Ubicazione STAZIONE CHIAIA
Opera \ \ III Ordine - Tufo \ 33-37
Tipo Strumento Mire Ottiche
Data posa in opera 12/07/2012
Data lettura di zero 12/07/2012

UBICAZIONE
STAZIONE CHIAIA \ \ III Ordine - Tufo \ 33-37

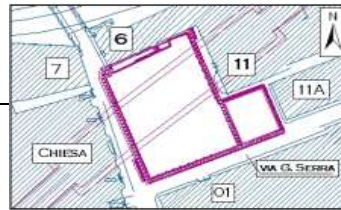


GRAFICO QUOTA

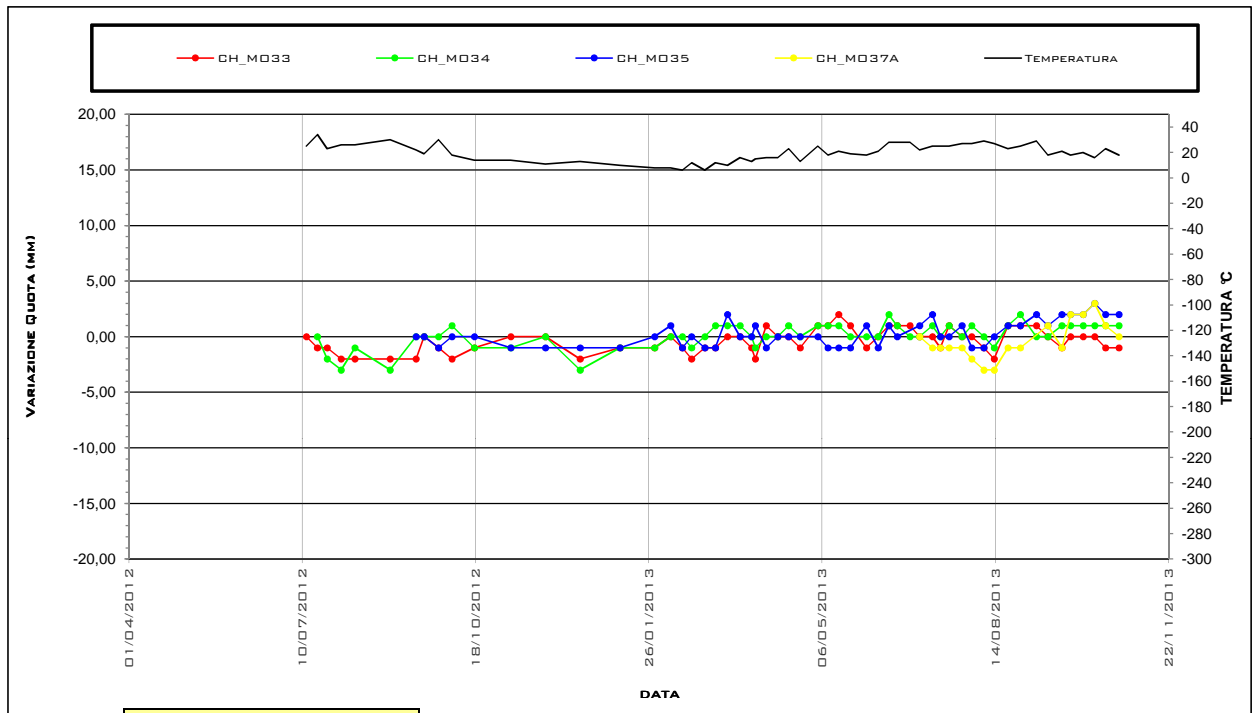
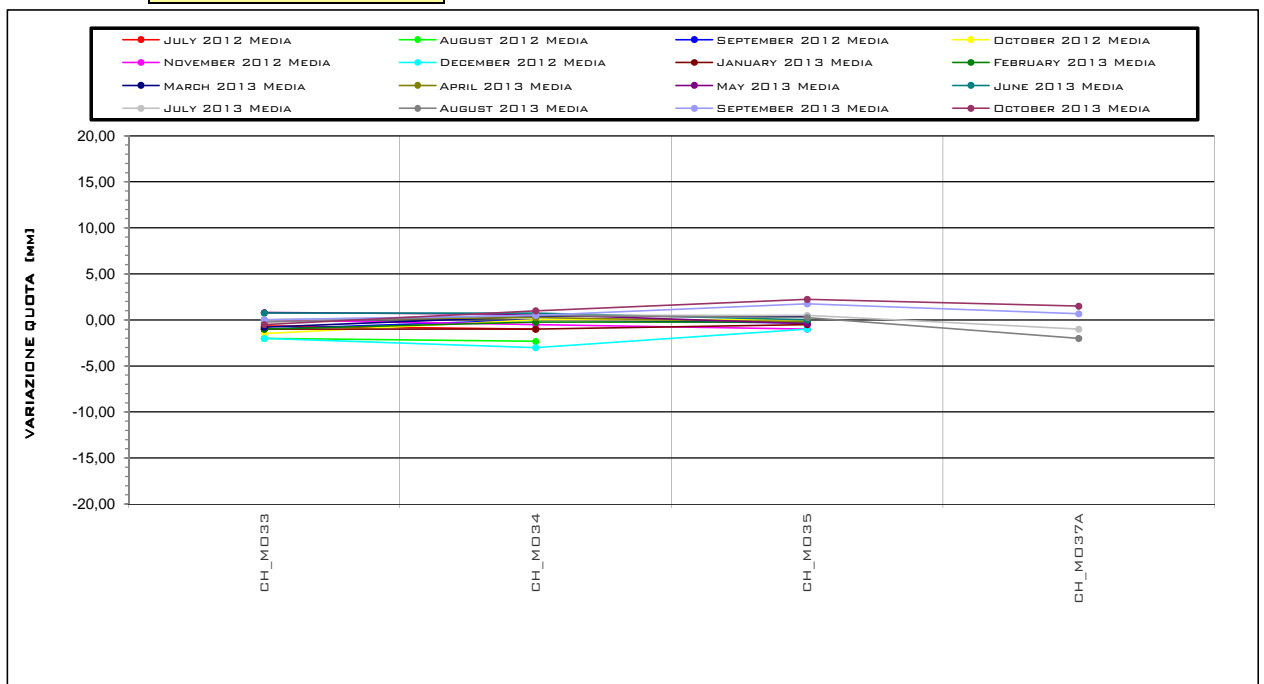


GRAFICO ISOCRONE





Ubicazione STAZIONE CHIAIA
Opera \ \ III Ordine - Tufo \ 33-37
Tipo Strumento Mire Ottiche
Data posa in opera 12/07/2012
Data lettura di zero 12/07/2012

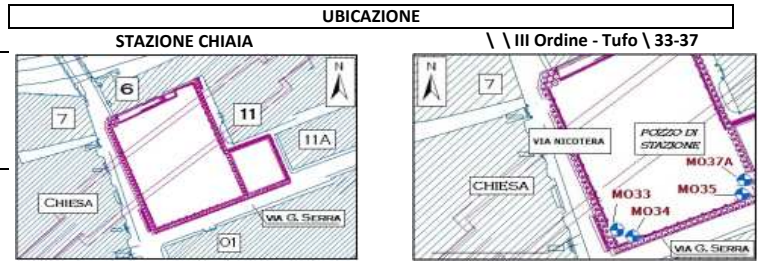


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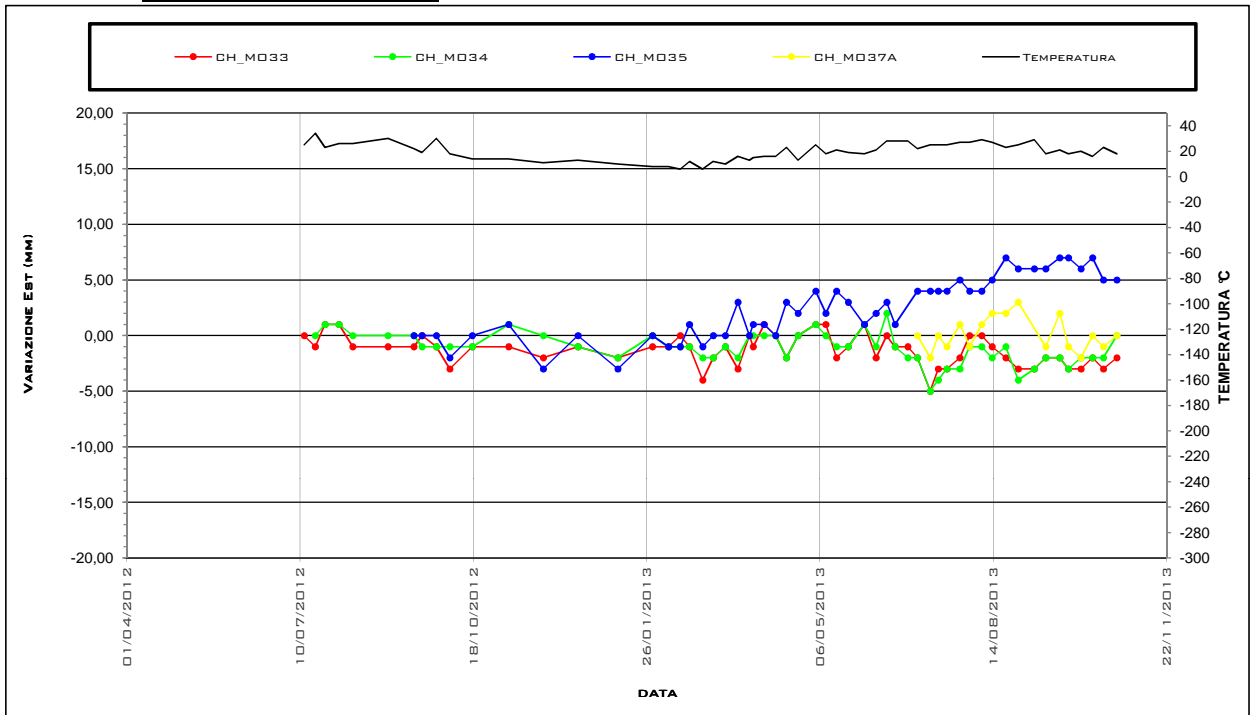
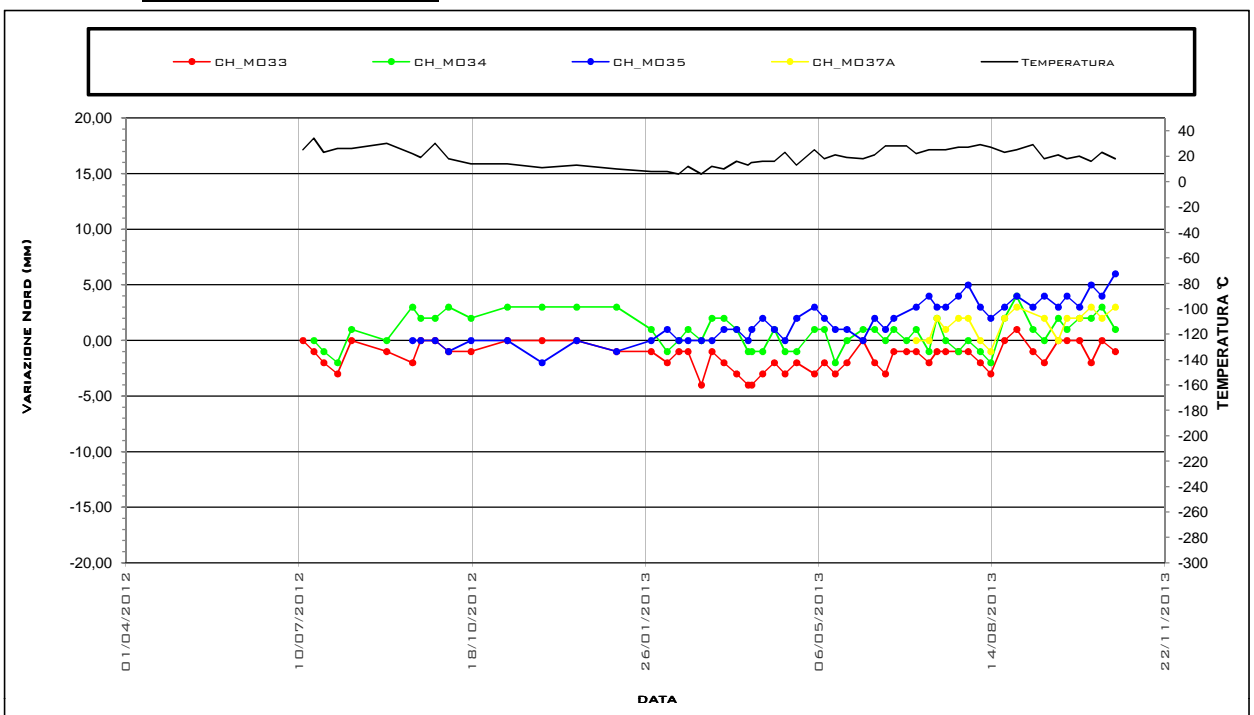


GRAFICO NORD





Ubicazione STAZIONE CHIAIA

Opera \ \ IV Ordine - Tufo \ 36A

Tipo Strumento Mire Ottiche

Data posa in opera 13/09/2012

Data lettura di zero 13/09/2012

Ultima Misura 45 in data 24/10/2013

Letto. n°	DATA	CH_M036					CH_M036A				
		Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]
1	13/09/2012 15.00	22,0	7,6	0,0	0,0	0,0					
2	18/09/2012 08.00	19,0	7,6	-1,0	0,0	0,0					
3	26/09/2012 15.00	30,0	7,6	0,0	1,0	2,0					
4	04/10/2012 09.00	18,0	7,6	-1,0	-2,0	0,0					
5	17/10/2012 08.30	14,0	7,6	-2,0	0,0	1,0					
6	07/11/2012 08.30	14,0	7,6	-1,0	1,0	2,0					
7	27/11/2012 08.30	11,0	7,6	0,0	1,0	1,0					
8	17/12/2012 08.30	13,0	7,6	-2,0	0,0	2,0					
9	09/01/2013 08.30	10,0	7,6	-1,0	-1,0	0,0					
10	29/01/2013 08.30	8,0	7,6	-2,0	0,0	0,0					
11	07/02/2013 15.00	8,0	7,6	0,0	-1,0	-1,0					
12	14/02/2013 08.30	6,0	7,6	-1,0	0,0	1,0					
13	19/02/2013 15.30	12,0	7,6	-1,0	0,0	1,0					
14	28/03/2013 11.00					15,0	9,3	0,0	0,0	0,0	
15	03/04/2013 17.30					16,0	9,3	0,0	3,0	-1,0	
16	10/04/2013 10.30					16,0	9,3	0,0	1,0	1,0	
17	16/04/2013 15.00					23,0	9,3	0,0	2,0	-1,0	
18	23/04/2013 08.30					13,0	9,3	-1,0	3,0	-1,0	
19	03/05/2013 14.30					25,0	9,3	-1,0	5,0	0,0	
20	09/05/2013 08.30					18,0	9,3	-2,0	4,0	-1,0	
21	15/05/2013 14.30					21,0	9,3	-1,0	2,0	-2,0	
22	22/05/2013 08.30					19,0	9,3	-1,0	1,0	-1,0	
23	31/05/2013 15.30					18,0	9,3	-2,0	3,0	0,0	
24	07/06/2013 08.30					21,0	9,3	-2,0	2,0	-1,0	
25	13/06/2013 14.30					28,0	9,3	-1,0	4,0	-2,0	
26	18/06/2013 09.00					28,0	9,3	0,0	2,0	0,0	
27	25/06/2013 18.00					28,0	9,3	-2,0	3,0	-1,0	
28	01/07/2013 07.30					22,0	9,3	-1,0	2,0	-1,0	
29	08/07/2013 17.30					25,0	9,3	-1,0	-1,0	-1,0	
30	13/07/2013 07.30					25,0	9,3	-2,0	-1,0	2,0	
31	18/07/2013 07.30					25,0	9,3	-1,0	0,0	1,0	
32	25/07/2013 18.00					27,0	9,3	-1,0	0,0	1,0	
33	31/07/2013 09.00					27,0	9,3	-1,0	3,0	2,0	
34	07/08/2013 09.00					29,0	9,2	-3,0	2,0	0,0	
35	13/08/2013 09.00					27,0	9,2	-4,0	1,0	-1,0	
36	21/08/2013 07.30					23,0	9,3	-1,0	1,0	2,0	
37	28/08/2013 10.30					25,0	9,3	1,0	0,0	4,0	
38	06/09/2013 17.30					29,0	9,3	-1,0	0,0	0,0	
39	13/09/2013 07.30					18,0	9,3	-1,0	0,0	1,0	
40	21/09/2013 09.30					21,0	9,3	-2,0	1,0	2,0	
41	26/09/2013 09.30					18,0	9,3	-2,0	0,0	1,0	
42	03/10/2013 16.30					20,0	9,3	-2,0	1,0	2,0	
43	10/10/2013 08.30					16,0	9,3	-1,0	1,0	2,0	
44	16/10/2013 14.30					23,0	9,3	-2,0	1,0	2,0	
45	24/10/2013 08.30					18,0	9,3	-2,0	3,0	2,0	



Ubicazione STAZIONE CHIAIA
Opera \ \ IV Ordine - Tufo \ 36A
Tipo Strumento Mire Ottiche
Data posa in opera 13/09/2012
Data lettura di zero 13/09/2012

UBICAZIONE



GRAFICO QUOTA

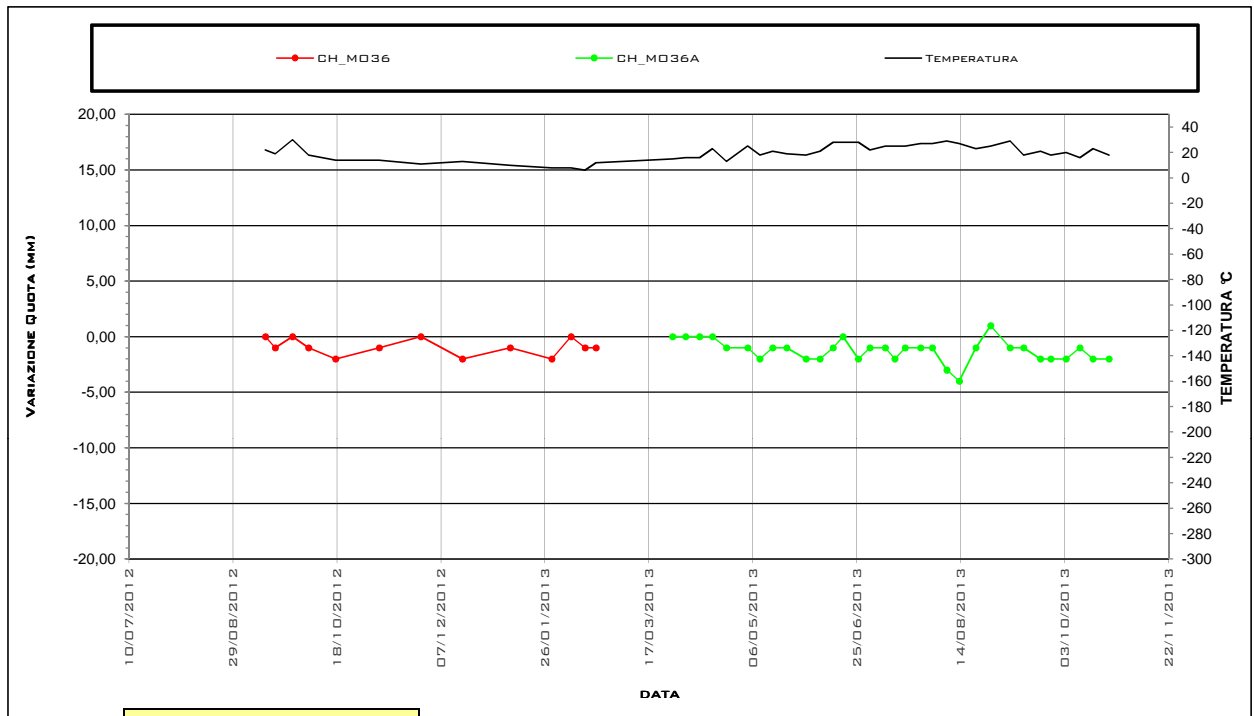
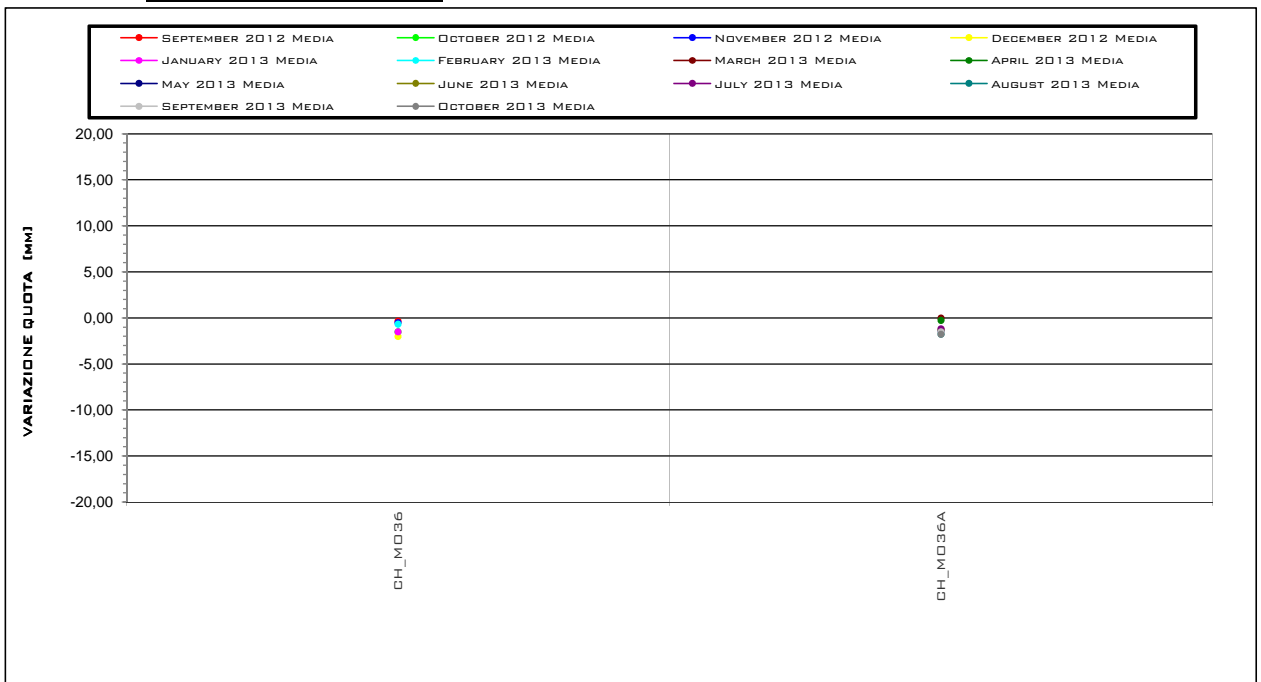


GRAFICO ISOCRONE





Ubicazione STAZIONE CHIAIA
Opera \ \ IV Ordine - Tufo \ 36A
Tipo Strumento Mire Ottiche
Data posa in opera 13/09/2012
Data lettura di zero 13/09/2012

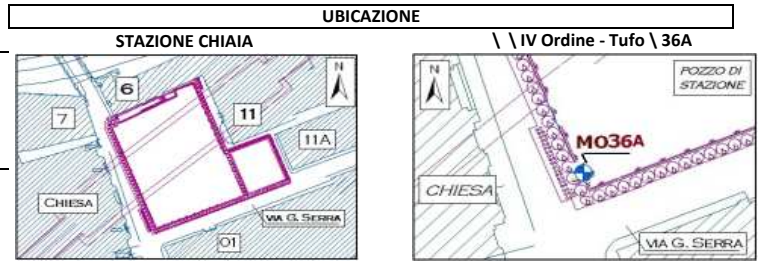


GRAFICO EST

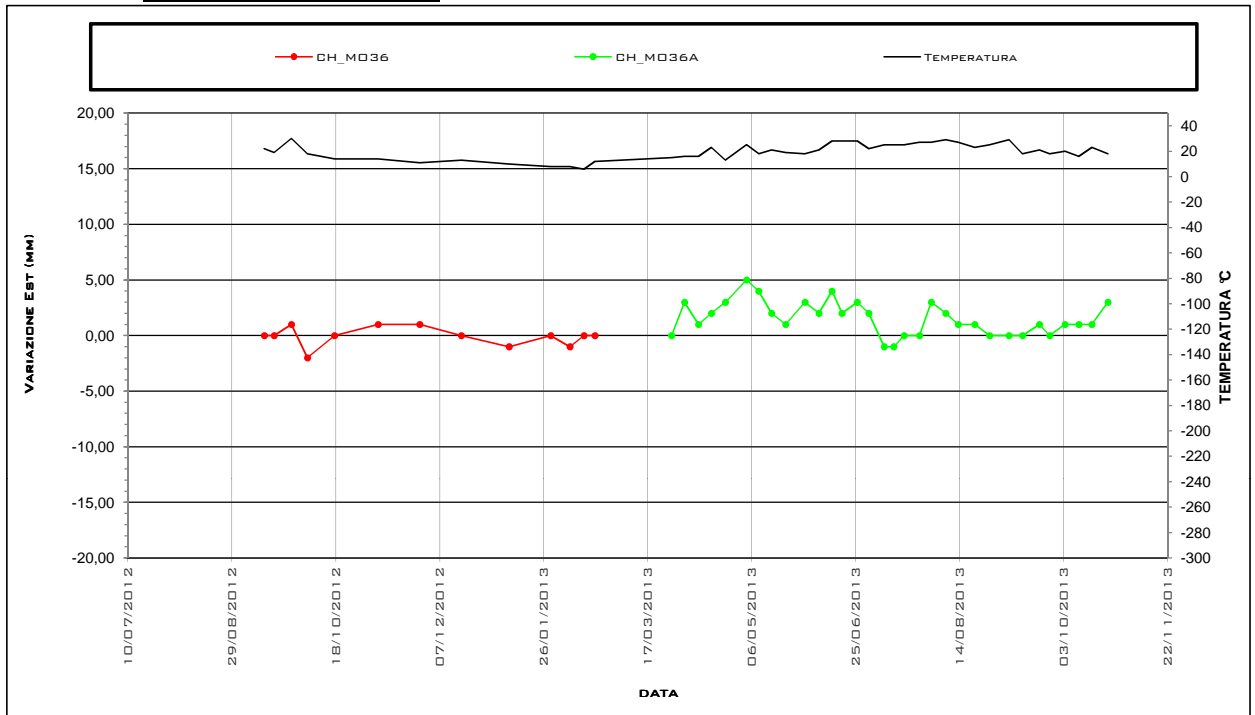
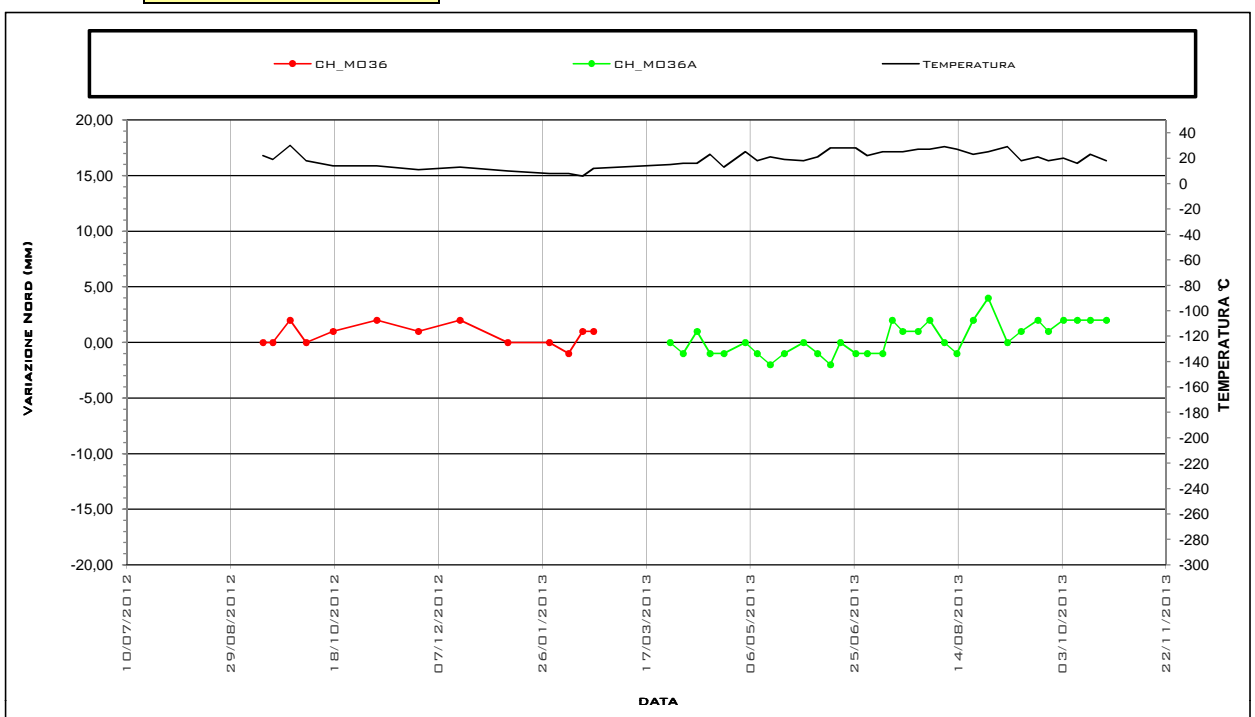


GRAFICO NORD





Ubicazione STAZIONE CHIAIA

Opera \ \ III Ordine - Tufo \ 38-40

Tipo Strumento Mire Ottiche

Data posa in opera 07/02/2013

Data lettura di zero 07/02/2013

Ultima Misura 41 in data 24/10/2013

Letto. n°	DATA	CH_M038					CH_M039					CH_M040				
		Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]
1	07/02/2013 15.01	8,0	14,7	0,0	0,0	0,0	8,0	14,6	0,0	0,0	0,0					
2	14/02/2013 08.30	6,0	14,7	1,0	0,0	3,0	6,0	14,6	0,0	0,0	3,0					
3	14/02/2013 08.31											6,0	14,8	0,0	0,0	0,0
4	19/02/2013 15.30	12,0	14,7	-2,0	0,0	2,0	12,0	14,6	0,0	1,0	4,0	12,0	14,8	2,0	-1,0	-1,0
5	27/02/2013 08.30	6,0	14,7	0,0	-1,0	2,0	6,0	14,6	1,0	0,0	1,0	6,0	14,8	1,0	0,0	-1,0
6	05/03/2013 10.30	12,0	14,7	0,0	-1,0	3,0	12,0	14,6	0,0	-1,0	3,0	12,0	14,8	1,0	1,0	0,0
7	12/03/2013 08.30	10,0	14,7	-1,0	-1,0	3,0	10,0	14,6	-1,0	-1,0	3,0	10,0	14,8	2,0	1,0	-1,0
8	19/03/2013 16.00	16,0	14,7	0,0	-1,0	2,0	16,0	14,6	2,0	-1,0	3,0	16,0	14,8	3,0	2,0	-1,0
9	26/03/2013 08.30	13,0	14,7	-1,0	0,0	0,0	13,0	14,6	0,0	0,0	-1,0	13,0	14,8	3,0	1,0	-1,0
10	28/03/2013 11.00	15,0	14,7	-2,0	0,0	0,0	15,0	14,6	-1,0	0,0	0,0	15,0	14,8	3,0	1,0	-1,0
11	03/04/2013 17.30	16,0	14,7	0,0	-1,0	0,0	16,0	14,6	2,0	-1,0	1,0	16,0	14,8	2,0	0,0	-2,0
12	10/04/2013 10.30	16,0	14,7	-1,0	-1,0	1,0	16,0	14,6	1,0	-1,0	2,0	16,0	14,8	2,0	1,0	1,0
13	16/04/2013 15.00	23,0	14,7	0,0	-2,0	2,0	23,0	14,6	2,0	-1,0	0,0	23,0	14,8	2,0	1,0	-2,0
14	23/04/2013 08.30	13,0	14,7	-2,0	-2,0	1,0	13,0	14,6	-1,0	-1,0	0,0	13,0	14,8	2,0	-1,0	-1,0
15	03/05/2013 14.30	25,0	14,7	1,0	2,0	2,0	25,0	14,6	2,0	1,0	1,0	25,0	14,8	4,0	3,0	1,0
16	09/05/2013 08.30	18,0	14,7	0,0	-1,0	2,0	18,0	14,6	1,0	-1,0	1,0	18,0	14,8	5,0	2,0	2,0
17	15/05/2013 14.30	21,0	14,7	1,0	0,0	1,0	21,0	14,6	2,0	-1,0	0,0	21,0	14,8	4,0	3,0	0,0
18	22/05/2013 08.30	19,0	14,7	0,0	-2,0	2,0	19,0	14,6	1,0	-4,0	1,0	19,0	14,8	4,0	3,0	1,0
19	31/05/2013 15.30	18,0	14,7	-2,0	-2,0	3,0	18,0	14,6	0,0	-3,0	2,0	18,0	14,8	5,0	2,0	0,0
20	07/06/2013 08.30	21,0	14,7	-1,0	-1,0	3,0	21,0	14,6	0,0	-1,0	1,0	21,0	14,8	5,0	3,0	0,0
21	13/06/2013 14.30	28,0	14,7	0,0	0,0	1,0	28,0	14,6	2,0	0,0	-1,0	28,0	14,8	6,0	4,0	-1,0
22	18/06/2013 09.00	28,0	14,7	-1,0	-2,0	3,0	28,0	14,6	2,0	-2,0	1,0	28,0	14,8	4,0	2,0	1,0
23	25/06/2013 18.00	28,0	14,7	0,0	-1,0	2,0	28,0	14,6	2,0	-1,0	1,0	28,0	14,8	4,0	4,0	0,0
24	01/07/2013 07.30	22,0	14,7	0,0	0,0	3,0	22,0	14,6	2,0	-1,0	2,0	22,0	14,8	3,0	3,0	-1,0
25	08/07/2013 17.30	25,0	14,7	0,0	-1,0	2,0	25,0	14,6	3,0	-2,0	0,0	25,0	14,8	4,0	4,0	1,0
26	13/07/2013 07.30	25,0	14,7	0,0	0,0	2,0	25,0	14,6	1,0	-2,0	2,0	25,0	14,8	4,0	2,0	1,0
27	18/07/2013 07.30	25,0	14,7	-1,0	-2,0	2,0	25,0	14,6	2,0	-3,0	1,0	25,0	14,8	4,0	2,0	0,0
28	25/07/2013 18.00	27,0	14,7	0,0	-1,0	2,0	27,0	14,6	2,0	-1,0	1,0	27,0	14,8	5,0	2,0	0,0
29	31/07/2013 09.00	27,0	14,7	0,0	-1,0	2,0	27,0	14,6	2,0	-1,0	0,0	27,0	14,8	5,0	3,0	-1,0
30	07/08/2013 09.00	29,0	14,7	-2,0	-2,0	3,0	29,0	14,6	1,0	-3,0	1,0	29,0	14,8	4,0	4,0	1,0
31	13/08/2013 09.00	27,0	14,7	-3,0	-3,0	4,0	27,0	14,6	0,0	-4,0	2,0	27,0	14,8	3,0	4,0	2,0
32	21/08/2013 07.30	23,0	14,7	1,0	2,0	4,0	23,0	14,6	2,0	0,0	2,0	23,0	14,8	4,0	4,0	0,0
33	28/08/2013 10.30	25,0	14,7	1,0	-1,0	4,0	25,0	14,6	3,0	-2,0	4,0	25,0	14,8	6,0	3,0	-1,0
34	06/09/2013 17.30	29,0	14,7	0,0	-2,0	2,0	29,0	14,6	3,0	-3,0	0,0	29,0	14,8	7,0	1,0	-2,0
35	13/09/2013 07.30	18,0	14,7	-1,0	-1,0	3,0	18,0	14,6	1,0	-2,0	0,0	18,0	14,8	7,0	1,0	-2,0
36	21/09/2013 09.30	21,0	14,7	-1,0	-2,0	2,0	21,0	14,6	2,0	-2,0	2,0	21,0	14,8	8,0	0,0	-3,0
37	26/09/2013 09.30	18,0	14,7	-1,0	-2,0	2,0	18,0	14,6	2,0	-3,0	0,0	18,0	14,8	8,0	0,0	-2,0
38	03/10/2013 16.30	20,0	14,7	-1,0	-1,0	3,0	20,0	14,6	2,0	-2,0	2,0	20,0	14,8	7,0	1,0	-2,0
39	10/10/2013 08.30	16,0	14,7	-1,0	-2,0	2,0	16,0	14,6	2,0	-3,0	0,0	16,0	14,8	8,0	2,0	-1,0
40	16/10/2013 14.30	23,0	14,7	-1,0	-2,0	3,0	23,0	14,6	1,0	-3,0	2,0	23,0	14,8	8,0	0,0	-1,0
41	24/10/2013 08.30	18,0	14,7	-1,0	0,0	2,0	18,0	14,6	1,0	-1,0	0,0	18,0	14,8	7,0	1,0	-1,0



Ubicazione STAZIONE CHIAIA
Opera \ \ III Ordine - Tufo \ 38-40
Tipo Strumento Mire Ottiche
Data posa in opera 07/02/2013
Data lettura di zero 07/02/2013

UBICAZIONE

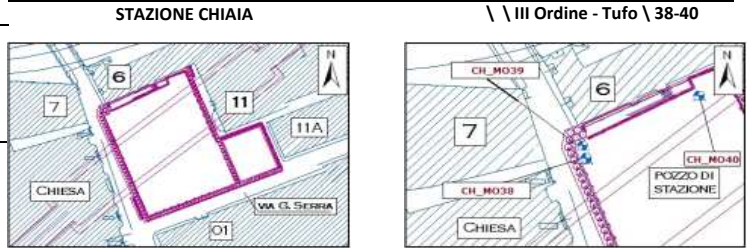


GRAFICO QUOTA

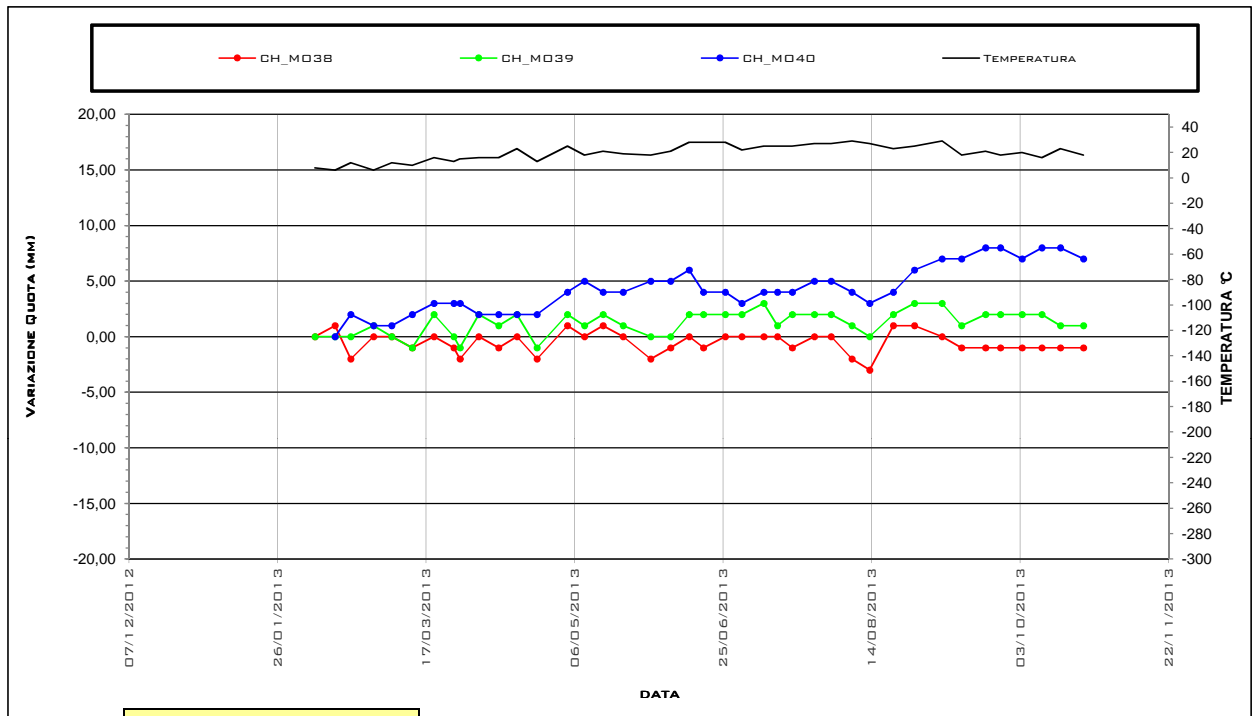
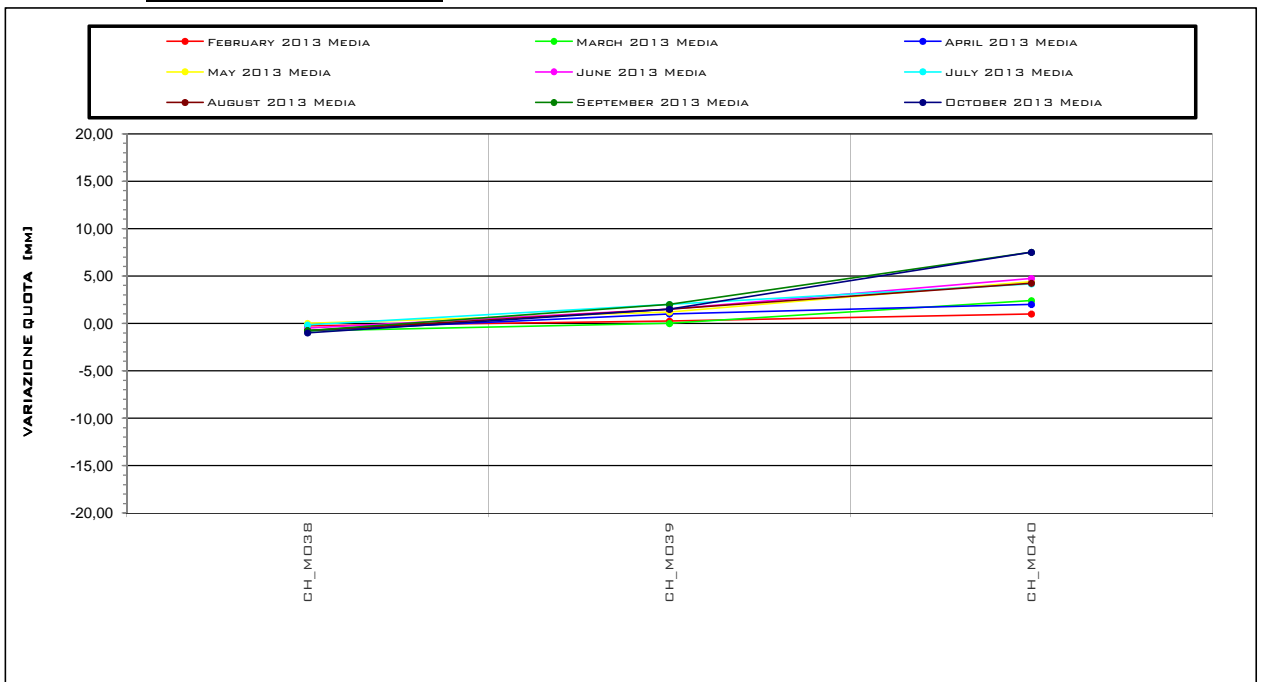


GRAFICO ISOCRONE





Ubicazione STAZIONE CHIAIA
Opera \ \ III Ordine - Tufo \ 38-40
Tipo Strumento Mire Ottiche
Data posa in opera 07/02/2013
Data lettura di zero 07/02/2013

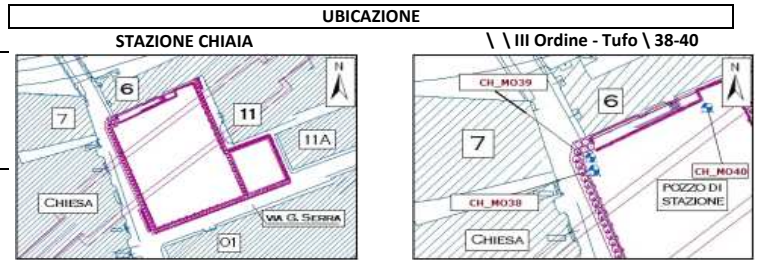


GRAFICO EST

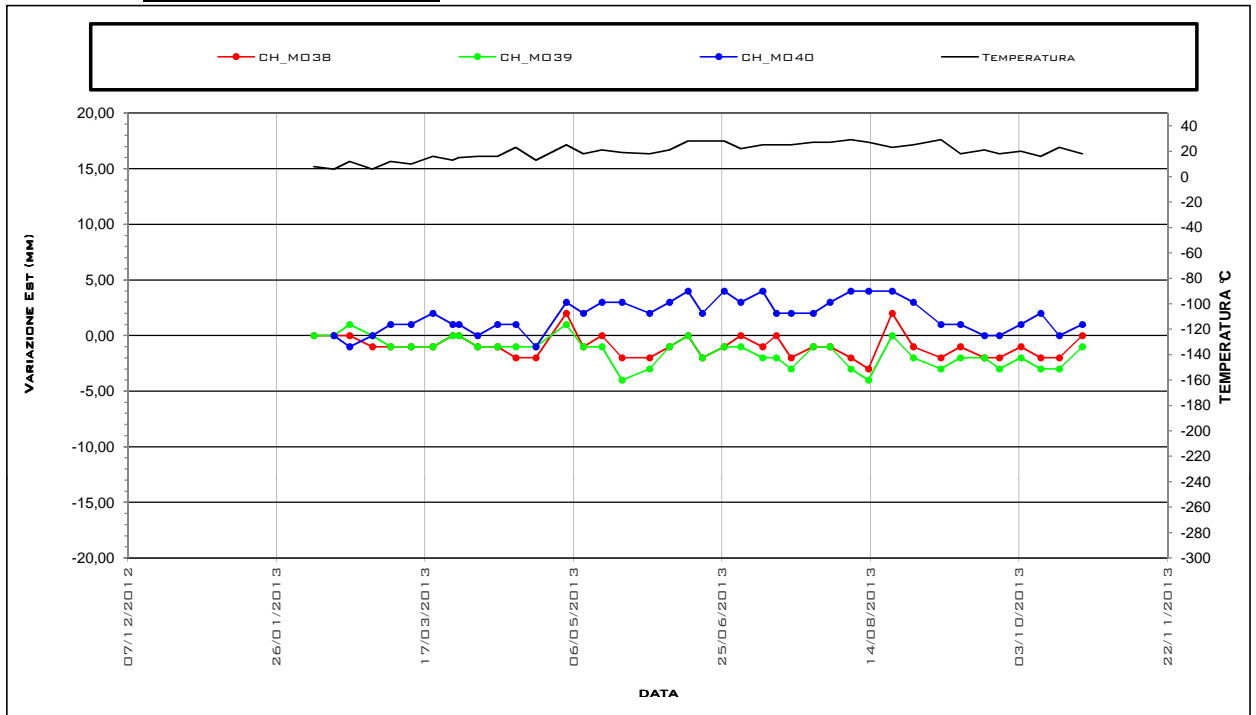
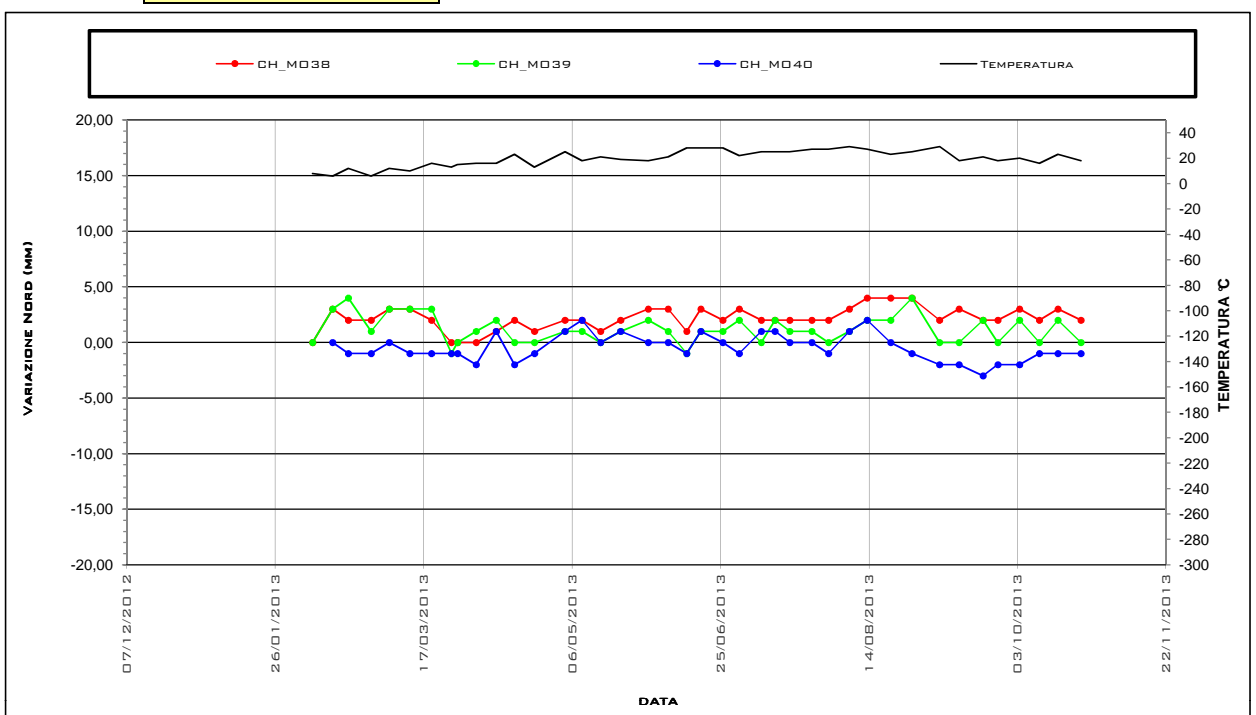


GRAFICO NORD





Ubicazione STAZIONE CHIAIA

Opera \ \ IV Ordine - Tufo \ 41-44

Tipo Strumento Mire Ottiche

Data posa in opera 05/03/2013

Data lettura di zero 05/03/2013

Ultima Misura 36 in data 24/10/2013

Letto. n°	DATA	CH_M041					CH_M042					CH_M043					CH_M044				
		Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]
1	05/03/2013 10.30	12,0	9,5	0,0	0,0	0,0	12,0	9,4	0,0	0,0	0,0	12,0	9,7	0,0	0,0	0,0	12,0	10,2	0,0	0,0	0,0
2	12/03/2013 08.30	10,0	9,5	1,0	1,0	3,0	10,0	9,4	-1,0	-1,0	2,0	10,0	9,7	1,0	1,0	-2,0	10,0	10,2	0,0	-1,0	-2,0
3	19/03/2013 16.00	16,0	9,5	0,0	0,0	4,0	16,0	9,4	1,0	-1,0	2,0	16,0	9,7	1,0	2,0	-2,0	16,0	10,2	1,0	0,0	-2,0
4	26/03/2013 08.30	13,0	9,5	0,0	2,0	0,0	13,0	9,4	0,0	2,0	-2,0	13,0	9,7	0,0	1,0	-2,0	13,0	10,2	0,0	0,0	-3,0
5	28/03/2013 11.00	15,0	9,5	-2,0	0,0	1,0	15,0	9,4	0,0	0,0	0,0	15,0	9,7	1,0	1,0	-2,0	15,0	10,2	0,0	0,0	-2,0
6	03/04/2013 17.30	16,0	9,5	-3,0	0,0	2,0	16,0	9,4	1,0	0,0	0,0	16,0	9,7	-1,0	1,0	-4,0	16,0	10,2	-2,0	-1,0	-3,0
7	10/04/2013 10.30	16,0	9,5	-1,0	-1,0	2,0	16,0	9,4	0,0	0,0	2,0	16,0	9,7	1,0	1,0	-2,0	16,0	10,2	1,0	0,0	-1,0
8	16/04/2013 15.00	23,0	9,5	0,0	0,0	1,0	23,0	9,4	2,0	0,0	0,0	23,0	9,7	1,0	1,0	-4,0	23,0	10,2	-2,0	-1,0	-3,0
9	23/04/2013 08.30	13,0	9,5	0,0	0,0	0,0	13,0	9,4	0,0	0,0	0,0	13,0	9,7	0,0	0,0	-2,0	13,0	10,2	-1,0	-1,0	-1,0
10	03/05/2013 14.30	25,0	9,5	0,0	1,0	1,0	25,0	9,4	0,0	1,0	0,0	25,0	9,7	0,0	5,0	-3,0	25,0	10,2	-2,0	1,0	-2,0
11	09/05/2013 08.30	18,0	9,5	-1,0	-1,0	2,0	18,0	9,4	1,0	-1,0	1,0	18,0	9,7	0,0	3,0	-2,0	18,0	10,2	-1,0	-2,0	-2,0
12	15/05/2013 14.30	21,0	9,5	-1,0	0,0	2,0	21,0	9,4	1,0	1,0	0,0	21,0	9,7	1,0	4,0	-4,0	21,0	10,2	-1,0	0,0	-4,0
13	22/05/2013 08.30	19,0	9,5	0,0	-1,0	3,0	19,0	9,4	0,0	-1,0	0,0	19,0	9,7	1,0	4,0	-5,0	19,0	10,2	-1,0	0,0	-3,0
14	31/05/2013 15.30	18,0	9,5	-1,0	-1,0	3,0	18,0	9,4	-1,0	-2,0	1,0	18,0	9,7	1,0	4,0	-4,0	18,0	10,2	0,0	-1,0	-3,0
15	07/06/2013 08.30	21,0	9,5	-1,0	-1,0	2,0	21,0	9,4	-1,0	-1,0	2,0	21,0	9,7	1,0	4,0	-5,0	21,0	10,2	1,0	0,0	-4,0
16	13/06/2013 14.30	28,0	9,5	0,0	0,0	0,0	28,0	9,4	1,0	-1,0	0,0	28,0	9,7	2,0	5,0	-5,0	28,0	10,2	1,0	1,0	-4,0
17	18/06/2013 09.00	28,0	9,5	0,0	0,0	2,0	28,0	9,4	0,0	-2,0	1,0	28,0	9,7	1,0	3,0	-4,0	28,0	10,2	-1,0	0,0	-2,0
18	25/06/2013 18.00	28,0	9,5	0,0	0,0	2,0	28,0	9,4	0,0	0,0	1,0	28,0	9,7	1,0	3,0	-4,0	28,0	10,2	0,0	0,0	-4,0
19	01/07/2013 07.30	22,0	9,5	1,0	0,0	2,0	22,0	9,4	0,0	-1,0	1,0	22,0	9,7	1,0	4,0	-5,0	22,0	10,2	0,0	0,0	-3,0
20	08/07/2013 17.30	25,0	9,5	1,0	0,0	3,0	25,0	9,4	3,0	-1,0	0,0	25,0	9,7	2,0	5,0	-3,0	25,0	10,2	0,0	1,0	-1,0
21	13/07/2013 07.30	25,0	9,5	0,0	0,0	3,0	25,0	9,4	1,0	-2,0	0,0	25,0	9,7	2,0	3,0	-3,0	25,0	10,2	0,0	0,0	-3,0
22	18/07/2013 07.30	25,0	9,5	-1,0	-1,0	2,0	25,0	9,4	2,0	-2,0	0,0	25,0	9,7	1,0	3,0	-4,0	25,0	10,2	-1,0	-1,0	-2,0
23	25/07/2013 18.00	27,0	9,5	1,0	1,0	2,0	27,0	9,4	1,0	-1,0	1,0	27,0	9,7	2,0	4,0	-4,0	27,0	10,2	0,0	-1,0	-2,0
24	31/07/2013 09.00	27,0	9,5	1,0	-1,0	2,0	27,0	9,4	2,0	-2,0	0,0	27,0	9,7	2,0	3,0	-4,0	27,0	10,2	0,0	-1,0	-1,0
25	07/08/2013 09.00	29,0	9,5	0,0	-1,0	3,0	29,0	9,4	0,0	-4,0	1,0	29,0	9,7	1,0	4,0	-3,0	29,0	10,2	-1,0	-3,0	-1,0
26	13/08/2013 09.00	27,0	9,5	-1,0	-2,0	4,0	27,0	9,4	-1,0	-5,0	2,0	27,0	9,7	0,0	5,0	-2,0	27,0	10,2	-1,0	-2,0	-1,0
27	21/08/2013 07.30	23,0	9,5	1,0	1,0	3,0	23,0	9,4	2,0	0,0	1,0	23,0	9,7	2,0	5,0	-5,0	23,0	10,2	-1,0	1,0	-2,0
28	28/08/2013 10.30	25,0	9,5	2,0	-2,0	4,0	25,0	9,4	5,0	-1,0	2,0	25,0	9,7	3,0	4,0	-5,0	25,0	10,2	-1,0	1,0	-1,0
29	06/09/2013 17.30	29,0	9,5	1,0	-2,0	2,0	29,0	9,4	3,0	-1,0	0,0										
30	13/09/2013 07.30	18,0	9,5	0,0	0,0	2,0	18,0	9,4	3,0	0,0	0,0										
31	21/09/2013 09.30						21,0	9,4	3,0	-1,0	1,0										
32	26/09/2013 09.30	18,0	9,5	3,0	-1,0	4,0	18,0	9,4	3,0	-1,0	1,0										
33	03/10/2013 16.30	20,0	9,5	3,0	-1,0	5,0	20,0	9,4	3,0	-1,0	2,0										
34	10/10/2013 08.30	16,0	9,5	3,0	-3,0	3,0	16,0	9,4	3,0	-2,0	0,0										
35	16/10/2013 14.30	23,0	9,5	1,0	-3,0	4,0	23,0	9,4	2,0	-1,0	2,0										
36	24/10/2013 08.30	18,0	9,5	1,0	-1,0	4,0	18,0	9,4	2,0	1,0	0,0										



Ubicazione STAZIONE CHIAIA
Opera \ \ IV Ordine - Tufo \ 41-44
Tipo Strumento Mire Ottiche
Data posa in opera 05/03/2013
Data lettura di zero 05/03/2013

UBICAZIONE

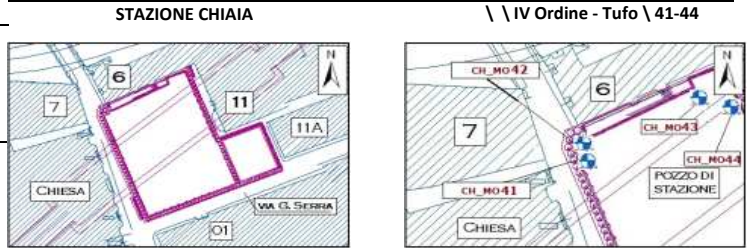


GRAFICO QUOTA

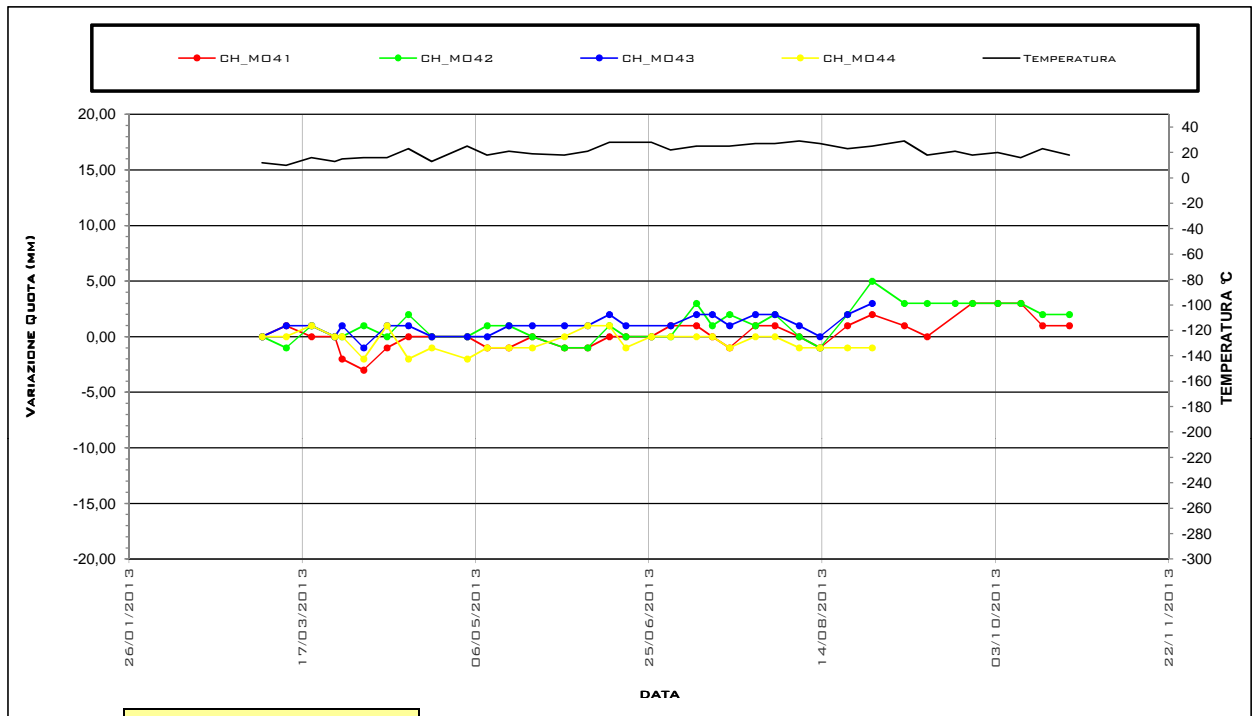
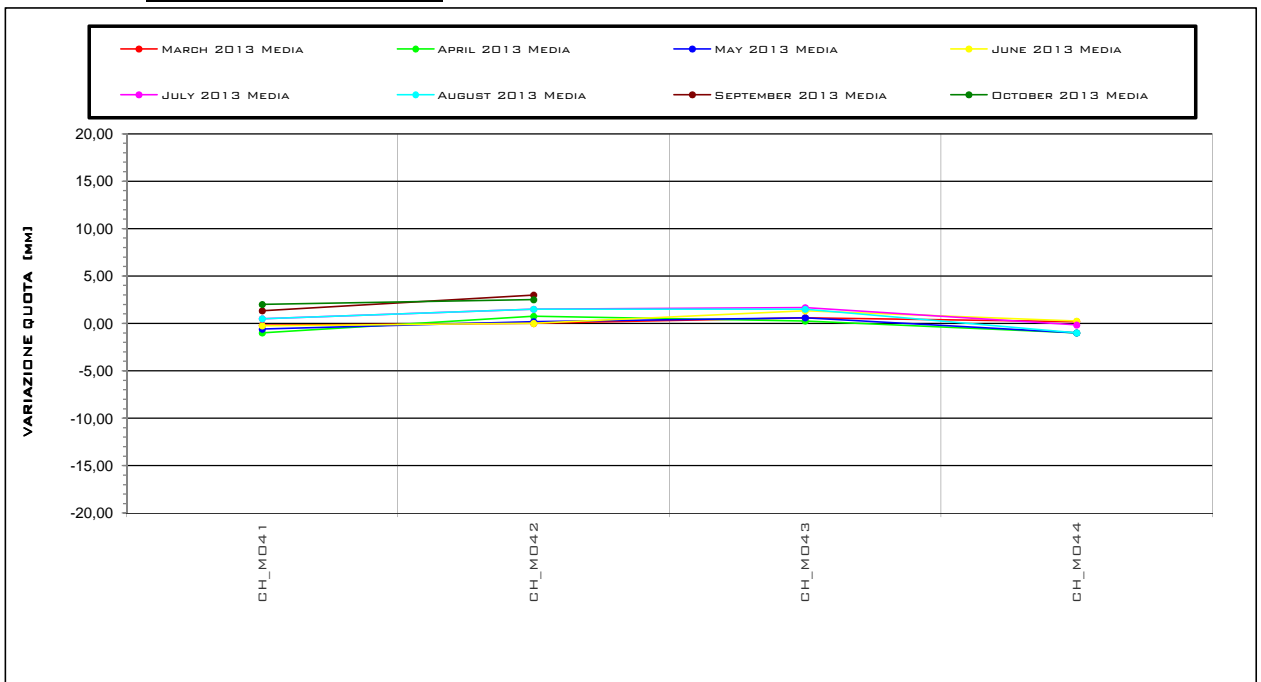


GRAFICO ISOCRONE





Ubicazione STAZIONE CHIAIA
Opera \ \ IV Ordine - Tufo \ 41-44
Tipo Strumento Mire Ottiche
Data posa in opera 05/03/2013
Data lettura di zero 05/03/2013

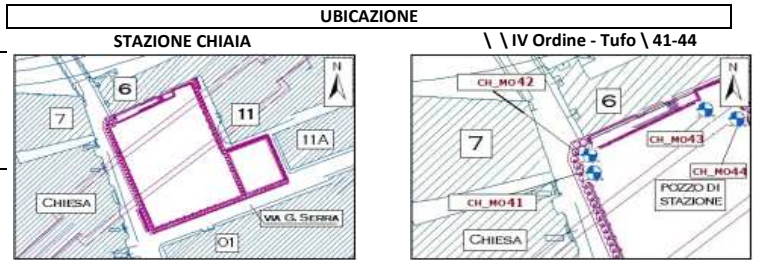


GRAFICO EST

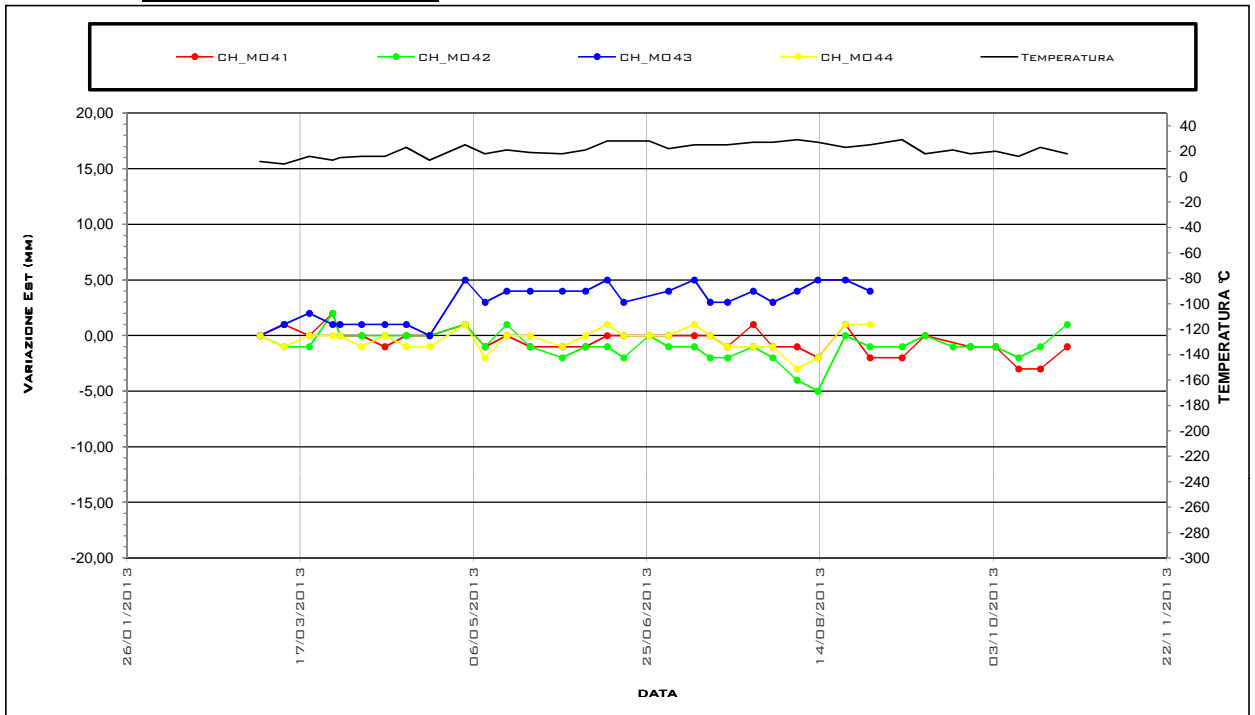
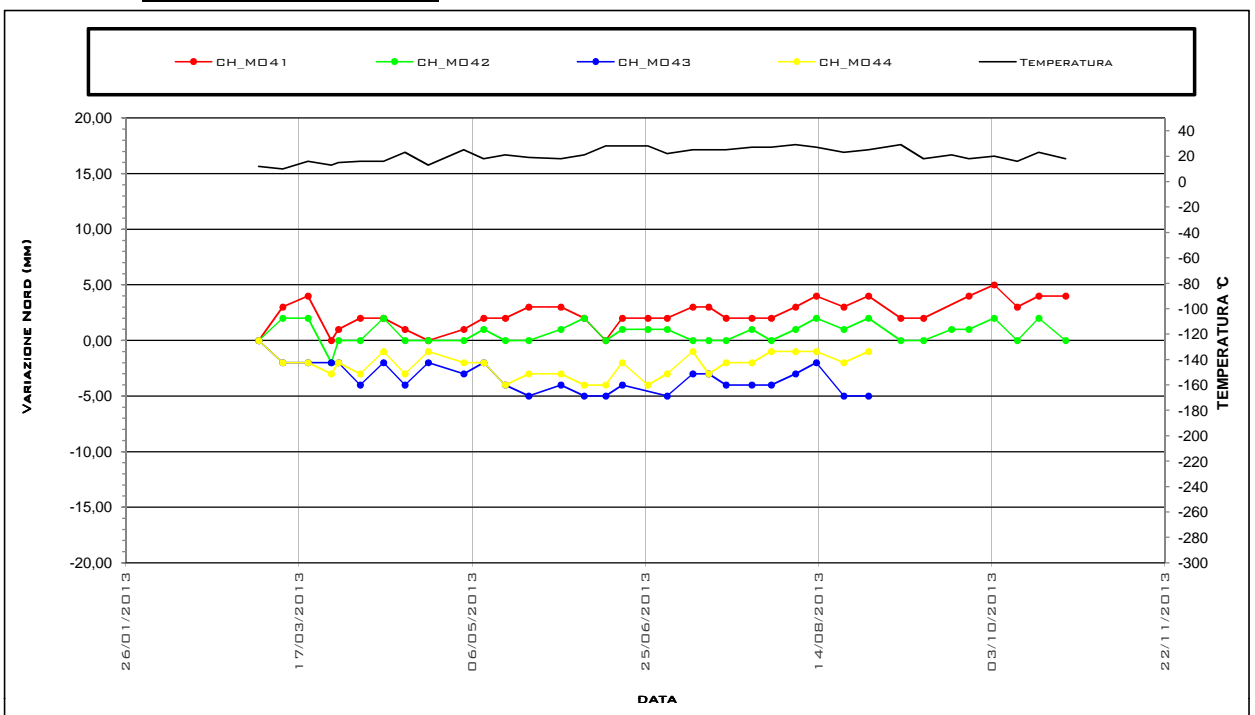


GRAFICO NORD





Ubicazione STAZIONE CHIAIA

Opera \ \ Supplementari \ 45-47

Tipo Strumento Mire Ottiche

Data posa in opera 28/03/2013

Data lettura di zero 28/03/2013

Ultima Misura 32 in data 24/10/2013

Letto. n°	DATA	CH_M045					CH_M046					CH_M047				
		Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]
1	28/03/2013 11.00	15,0	14,8	0,0	0,0	0,0	15,0	15,1	0,0	0,0	0,0	15,0	15,3	0,0	0,0	0,0
2	03/04/2013 17.30	16,0	14,8	1,0	0,0	-1,0	16,0	15,1	0,0	-1,0	0,0	16,0	15,3	-1,0	-1,0	0,0
3	10/04/2013 10.30	16,0	14,8	1,0	2,0	2,0	16,0	15,1	0,0	0,0	2,0	16,0	15,3	-1,0	-1,0	2,0
4	16/04/2013 15.00	23,0	14,8	1,0	0,0	0,0	23,0	15,1	-1,0	0,0	0,0	23,0	15,3	0,0	0,0	1,0
5	23/04/2013 08.30	13,0	14,8	0,0	-2,0	2,0	13,0	15,1	0,0	-1,0	2,0	13,0	15,3	0,0	0,0	2,0
6	03/05/2013 14.30	25,0	14,8	2,0	0,0	1,0	25,0	15,1	0,0	1,0	0,0	25,0	15,3	-1,0	1,0	2,0
7	09/05/2013 08.30	18,0	14,8	2,0	-1,0	2,0	18,0	15,1	0,0	0,0	1,0	18,0	15,3	0,0	-1,0	3,0
8	15/05/2013 14.30	21,0	14,8	1,0	0,0	0,0	21,0	15,1	0,0	1,0	0,0	21,0	15,3	0,0	2,0	2,0
9	22/05/2013 08.30	19,0	14,8	1,0	0,0	0,0	19,0	15,1	0,0	1,0	0,0	19,0	15,3	0,0	1,0	2,0
10	31/05/2013 15.30	18,0	14,8	1,0	1,0	0,0	18,0	15,1	0,0	0,0	0,0	18,0	15,3	0,0	1,0	1,0
11	07/06/2013 08.30	21,0	14,8	2,0	0,0	-1,0	21,0	15,1	-1,0	1,0	1,0	21,0	15,3	-1,0	2,0	1,0
12	13/06/2013 14.30	28,0	14,8	3,0	3,0	0,0	28,0	15,1	1,0	3,0	-1,0	28,0	15,3	0,0	3,0	1,0
13	18/06/2013 09.00	28,0	14,8	2,0	0,0	1,0	28,0	15,1	0,0	1,0	1,0	28,0	15,3	-1,0	1,0	2,0
14	25/06/2013 18.00	28,0	14,8	2,0	1,0	1,0	28,0	15,1	0,0	1,0	0,0	28,0	15,3	-1,0	1,0	1,0
15	01/07/2013 07.30	22,0	14,8	1,0	0,0	0,0	22,0	15,1	-1,0	1,0	0,0	22,0	15,3	-1,0	1,0	2,0
16	08/07/2013 17.30	25,0	14,8	2,0	2,0	1,0	25,0	15,1	-2,0	2,0	1,0	25,0	15,3	-1,0	2,0	2,0
17	13/07/2013 07.30	25,0	14,8	1,0	1,0	1,0	25,0	15,1	0,0	0,0	0,0	25,0	15,3	-1,0	1,0	3,0
18	18/07/2013 07.30	25,0	14,8	1,0	1,0	1,0	25,0	15,1	-2,0	2,0	1,0	25,0	15,3	-2,0	3,0	3,0
19	25/07/2013 18.00	27,0	14,8	1,0	1,0	1,0	27,0	15,1	-1,0	2,0	1,0	27,0	15,3	-2,0	3,0	3,0
20	31/07/2013 09.00	27,0	14,8	1,0	0,0	1,0	27,0	15,1	-1,0	1,0	1,0	27,0	15,3	-2,0	1,0	4,0
21	07/08/2013 09.00	29,0	14,8	0,0	2,0	2,0	29,0	15,1	-2,0	2,0	1,0	29,0	15,2	-4,0	2,0	3,0
22	13/08/2013 09.00	27,0	14,8	-1,0	3,0	3,0	27,0	15,1	-3,0	2,0	0,0	27,0	15,2	-5,0	3,0	2,0
23	21/08/2013 07.30	23,0	14,8	1,0	1,0	1,0	23,0	15,1	-2,0	3,0	1,0	23,0	15,3	-1,0	3,0	3,0
24	28/08/2013 10.30	25,0	14,8	0,0	2,0	1,0	25,0	15,1	-2,0	3,0	1,0	25,0	15,3	-2,0	3,0	4,0
25	06/09/2013 17.30	29,0	14,8	2,0	2,0	1,0	29,0	15,1	-1,0	2,0	1,0	29,0	15,3	-2,0	2,0	2,0
26	13/09/2013 07.30	18,0	14,8	1,0	2,0	1,0	18,0	15,1	-2,0	2,0	1,0	18,0	15,3	-1,0	1,0	2,0
27	21/09/2013 09.30	21,0	14,8	1,0	2,0	0,0	21,0	15,1	-2,0	2,0	1,0	21,0	15,3	-1,0	2,0	2,0
28	26/09/2013 09.30	18,0	14,8	2,0	1,0	1,0	18,0	15,1	-2,0	2,0	1,0	18,0	15,3	-2,0	3,0	3,0
29	03/10/2013 16.30	20,0	14,8	1,0	2,0	1,0	20,0	15,1	-2,0	3,0	1,0	20,0	15,3	-3,0	3,0	2,0
30	10/10/2013 08.30	16,0	14,8	2,0	2,0	2,0	16,0	15,1	-2,0	2,0	3,0	16,0	15,3	-3,0	4,0	4,0
31	16/10/2013 14.30	23,0	14,8	2,0	1,0	1,0	23,0	15,1	-2,0	2,0	2,0	23,0	15,3	-2,0	2,0	3,0
32	24/10/2013 08.30	18,0	14,8	2,0	2,0	1,0	18,0	15,1	-3,0	3,0	1,0	18,0	15,3	-2,0	3,0	4,0



Ubicazione STAZIONE CHIAIA
Opera \ \ Supplementari \ 45-47
Tipo Strumento Mire Ottiche
Data posa in opera 28/03/2013
Data lettura di zero 28/03/2013

UBICAZIONE

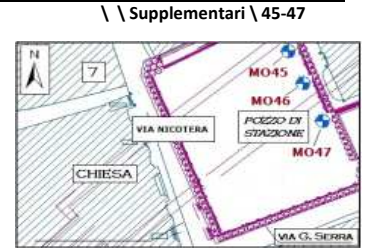


GRAFICO QUOTA

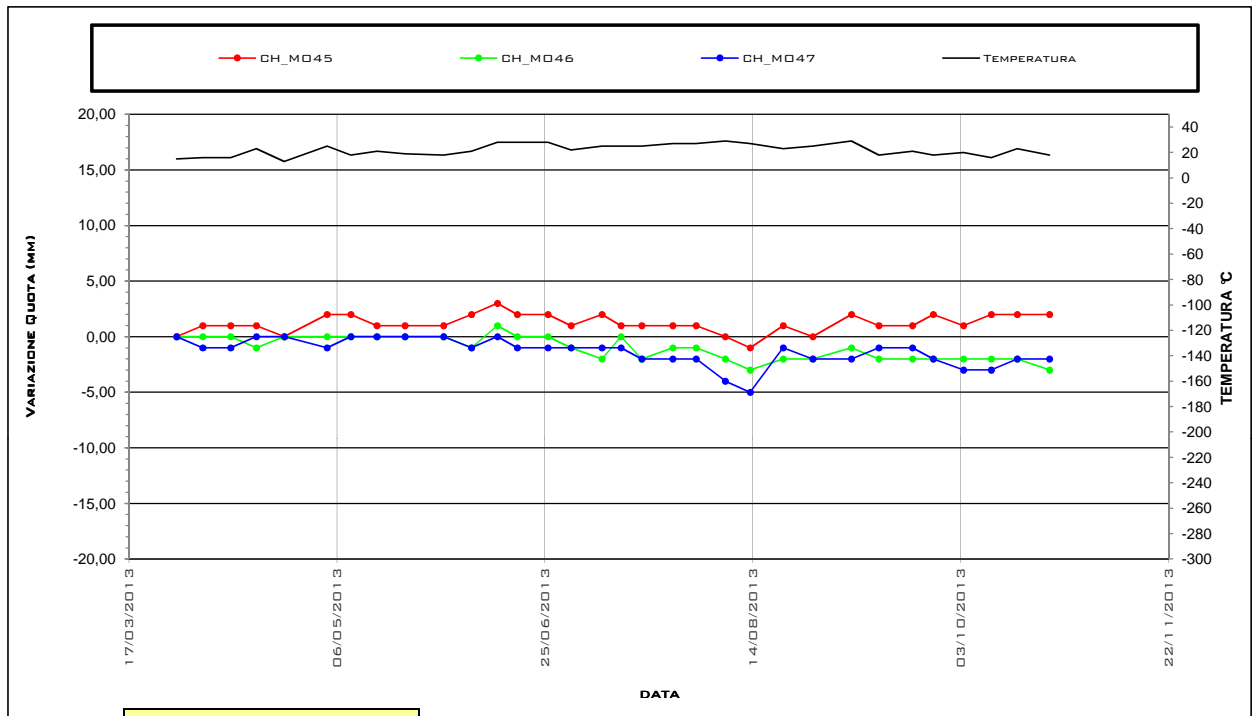
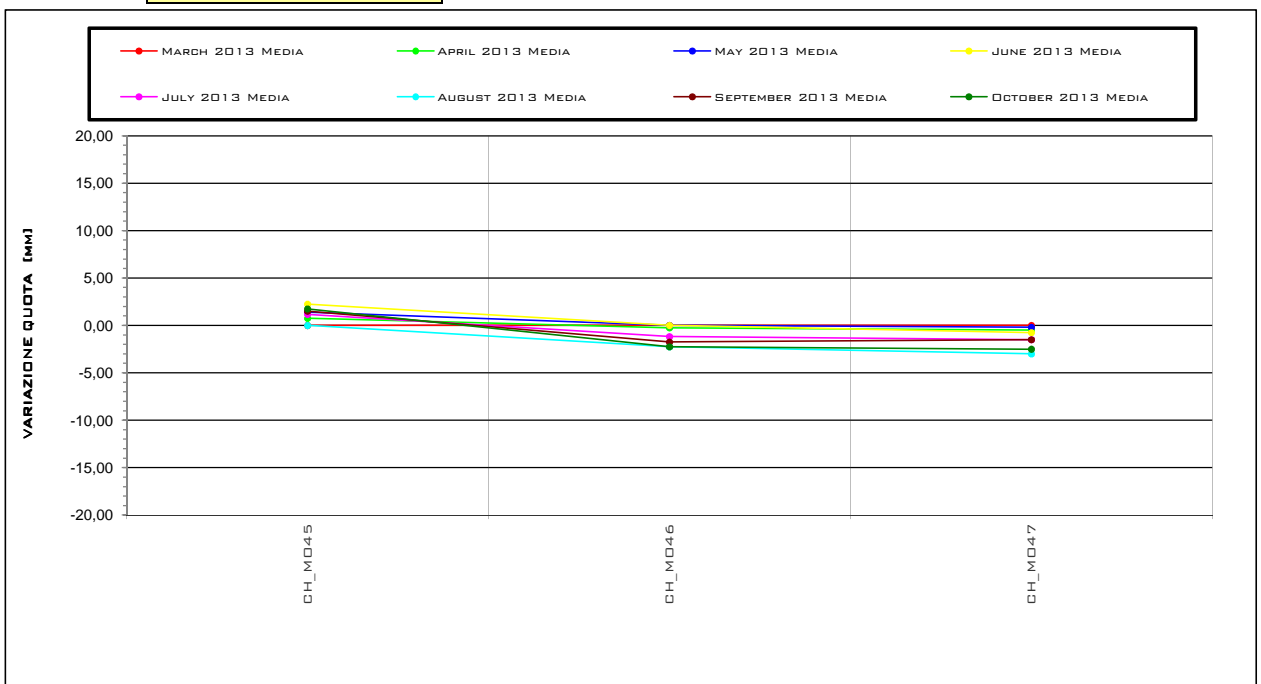


GRAFICO ISOCRONE





Ubicazione STAZIONE CHIAIA
Opera \ \ Supplementari \ 45-47
Tipo Strumento Mire Ottiche
Data posa in opera 28/03/2013
Data lettura di zero 28/03/2013

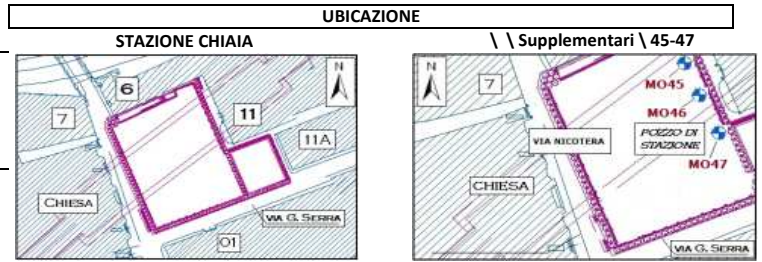


GRAFICO EST

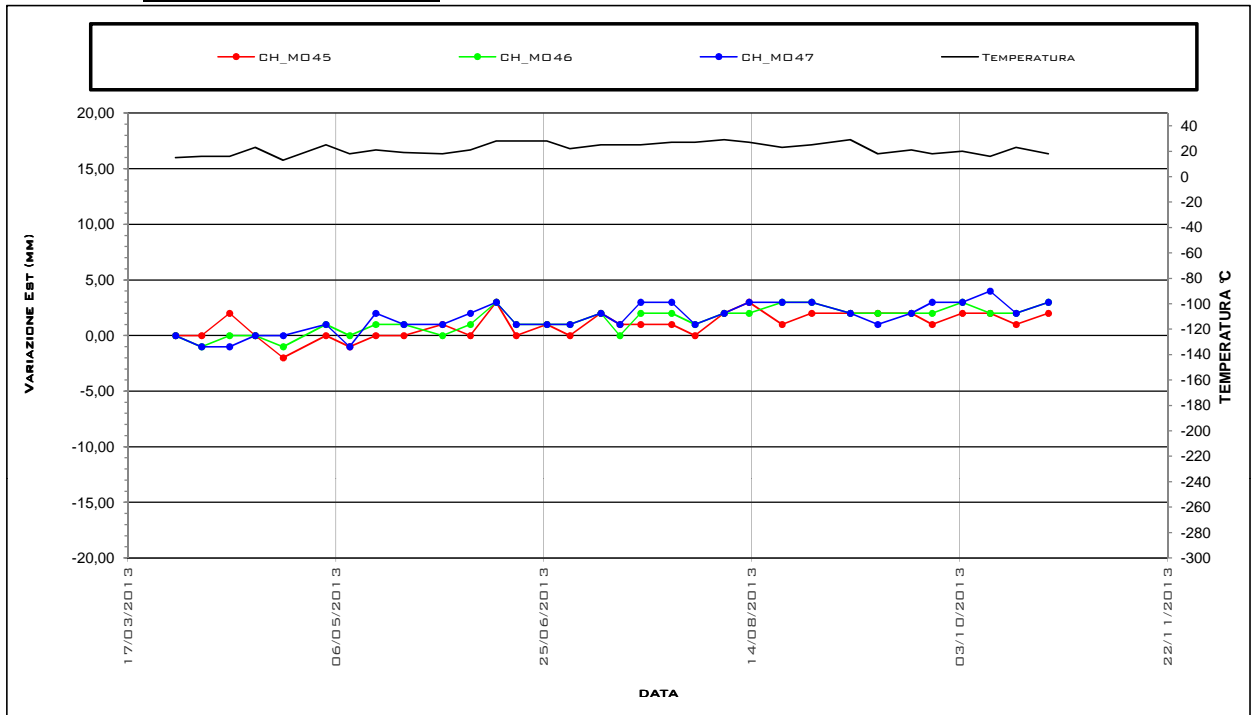
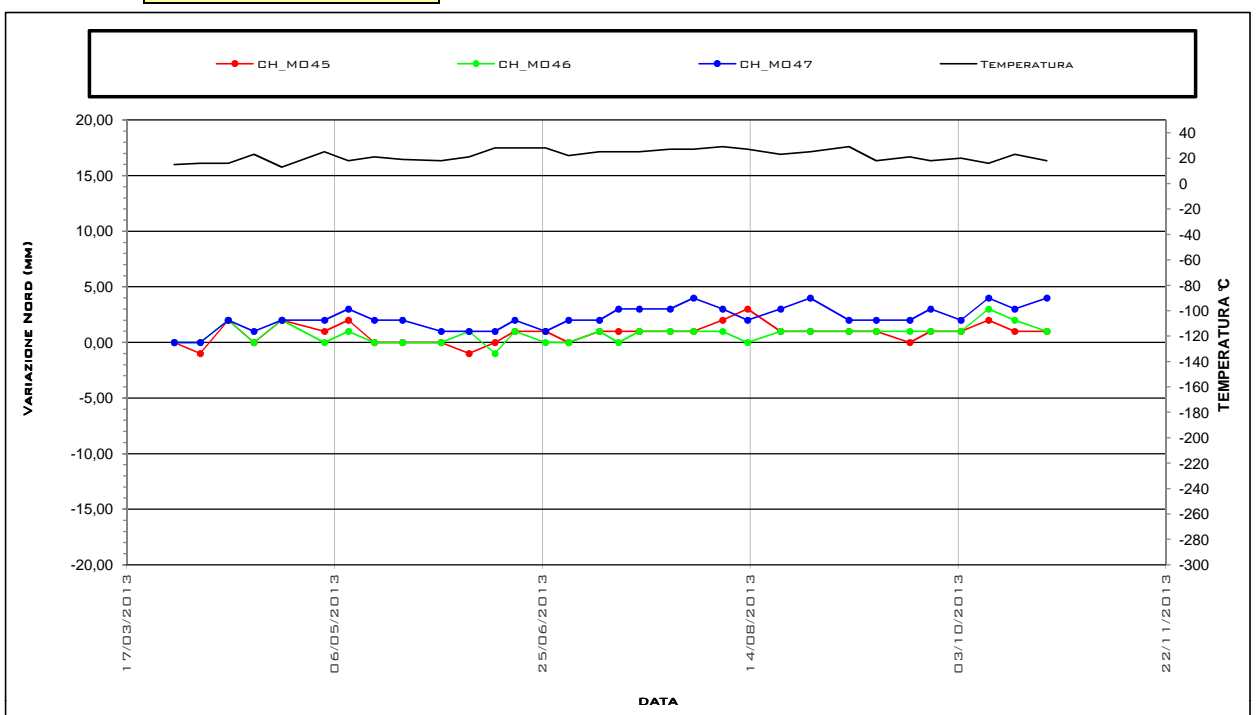


GRAFICO NORD





Ubicazione STAZIONE CHIAIA

Opera \ \ Supplementari \ 48-50

Tipo Strumento Mire Ottiche

Data posa in opera 28/03/2013

Data lettura di zero 28/03/2013

Ultima Misura 32 **in data** 24/10/2013

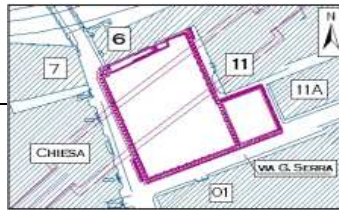
Letto. n°	DATA	CH_M048					CH_M049					CH_M050				
		Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]
1	28/03/2013 11.00	15,0	16,1	0,0	0,0	0,0	15,0	17,4	0,0	0,0	0,0	15,0	20,6	0,0	0,0	0,0
2	03/04/2013 17.30	16,0	16,1	-1,0	-1,0	0,0	16,0	17,4	0,0	-3,0	1,0	16,0	20,6	-1,0	1,0	0,0
3	10/04/2013 10.30	16,0	16,1	0,0	0,0	0,0	16,0	17,4	-2,0	1,0	2,0	16,0	20,6	-2,0	2,0	0,0
4	16/04/2013 15.00	23,0	16,1	0,0	2,0	0,0	23,0	17,4	-1,0	0,0	-1,0	23,0	20,6	0,0	1,0	-1,0
5	23/04/2013 08.30	13,0	16,1	1,0	1,0	2,0	13,0	17,4	-2,0	1,0	-1,0	13,0	20,6	-2,0	2,0	0,0
6	03/05/2013 14.30	25,0	16,1	0,0	4,0	1,0	25,0	17,4	-2,0	2,0	-1,0	25,0	20,6	-2,0	3,0	-1,0
7	09/05/2013 08.30	18,0	16,1	1,0	1,0	2,0	18,0	17,4	-2,0	1,0	1,0	18,0	20,6	-1,0	3,0	-1,0
8	15/05/2013 14.30	21,0	16,1	0,0	3,0	0,0	21,0	17,4	0,0	-1,0	-2,0	21,0	20,6	-1,0	0,0	-2,0
9	22/05/2013 08.30	19,0	16,1	0,0	3,0	-1,0	19,0	17,4	0,0	0,0	-1,0	19,0	20,6	-1,0	0,0	-1,0
10	31/05/2013 15.30	18,0	16,1	1,0	1,0	-1,0	18,0	17,4	-2,0	0,0	2,0	18,0	20,6	-2,0	2,0	1,0
11	07/06/2013 08.30	21,0	16,1	1,0	2,0	0,0	21,0	17,4	-2,0	0,0	0,0	21,0	20,6	-1,0	1,0	0,0
12	13/06/2013 14.30	28,0	16,1	1,0	3,0	-1,0	28,0	17,4	0,0	2,0	0,0	28,0	20,6	0,0	4,0	-1,0
13	18/06/2013 09.00	28,0	16,1	-1,0	2,0	2,0	28,0	17,4	-1,0	-1,0	1,0	28,0	20,6	-1,0	1,0	0,0
14	25/06/2013 18.00	28,0	16,1	0,0	4,0	0,0	28,0	17,4	0,0	0,0	0,0	28,0	20,6	-1,0	1,0	1,0
15	01/07/2013 07.30	22,0	16,1	-1,0	4,0	1,0	22,0	17,4	0,0	-1,0	1,0	22,0	20,6	-1,0	0,0	0,0
16	08/07/2013 17.30	25,0	16,1	2,0	3,0	2,0	25,0	17,4	0,0	-3,0	-1,0	25,0	20,6	0,0	-3,0	0,0
17	13/07/2013 07.30	25,0	16,1	0,0	4,0	3,0	25,0	17,4	0,0	-2,0	0,0	25,0	20,6	-2,0	-1,0	1,0
18	18/07/2013 07.30	25,0	16,1	-1,0	3,0	2,0	25,0	17,4	1,0	-2,0	0,0	25,0	20,6	0,0	0,0	0,0
19	25/07/2013 18.00	27,0	16,1	-1,0	4,0	3,0	27,0	17,4	1,0	-1,0	1,0	27,0	20,6	-1,0	0,0	0,0
20	31/07/2013 09.00	27,0	16,1	-1,0	4,0	4,0	27,0	17,4	0,0	0,0	1,0	27,0	20,6	0,0	2,0	1,0
21	07/08/2013 09.00	29,0	16,1	-1,0	4,0	4,0	29,0	17,4	0,0	0,0	1,0	29,0	20,6	-2,0	2,0	-1,0
22	13/08/2013 09.00	27,0	16,1	-1,0	3,0	3,0	27,0	17,4	-1,0	-1,0	1,0	27,0	20,6	-3,0	1,0	-2,0
23	21/08/2013 07.30	23,0	16,1	0,0	7,0	2,0	23,0	17,4	0,0	-1,0	1,0	23,0	20,6	-1,0	-1,0	0,0
24	28/08/2013 10.30	25,0	16,1	0,0	5,0	3,0	25,0	17,4	2,0	-3,0	3,0	25,0	20,6	0,0	-2,0	3,0
25	06/09/2013 17.30	29,0	16,1	1,0	5,0	1,0	29,0	17,4	0,0	-2,0	1,0	29,0	20,6	-1,0	-1,0	0,0
26	13/09/2013 07.30	18,0	16,1	1,0	5,0	2,0	18,0	17,4	-1,0	-3,0	0,0	18,0	20,6	0,0	0,0	0,0
27	21/09/2013 09.30	21,0	16,1	2,0	4,0	1,0	21,0	17,4	0,0	-2,0	0,0	21,0	20,6	-1,0	-1,0	1,0
28	26/09/2013 09.30	18,0	16,1	2,0	6,0	3,0	18,0	17,4	-1,0	-3,0	0,0	18,0	20,6	-1,0	-2,0	0,0
29	03/10/2013 16.30	20,0	16,1	2,0	4,0	3,0	20,0	17,4	0,0	-1,0	1,0	20,0	20,6	-1,0	0,0	0,0
30	10/10/2013 08.30	16,0	16,1	2,0	7,0	3,0	16,0	17,4	1,0	-2,0	0,0	16,0	20,6	-1,0	-1,0	1,0
31	16/10/2013 14.30	23,0	16,1	1,0	5,0	3,0	23,0	17,4	0,0	-2,0	2,0	23,0	20,6	-1,0	0,0	3,0
32	24/10/2013 08.30	18,0	16,1	2,0	4,0	2,0	18,0	17,4	0,0	0,0	1,0	18,0	20,6	-2,0	0,0	0,0



Ubicazione STAZIONE CHIAIA
Opera \ \ Supplementari \ 48-50
Tipo Strumento Mire Ottiche
Data posa in opera 28/03/2013
Data lettura di zero 28/03/2013

UBICAZIONE

STAZIONE CHIAIA



\ \ Supplementari \ 48-50



GRAFICO QUOTA

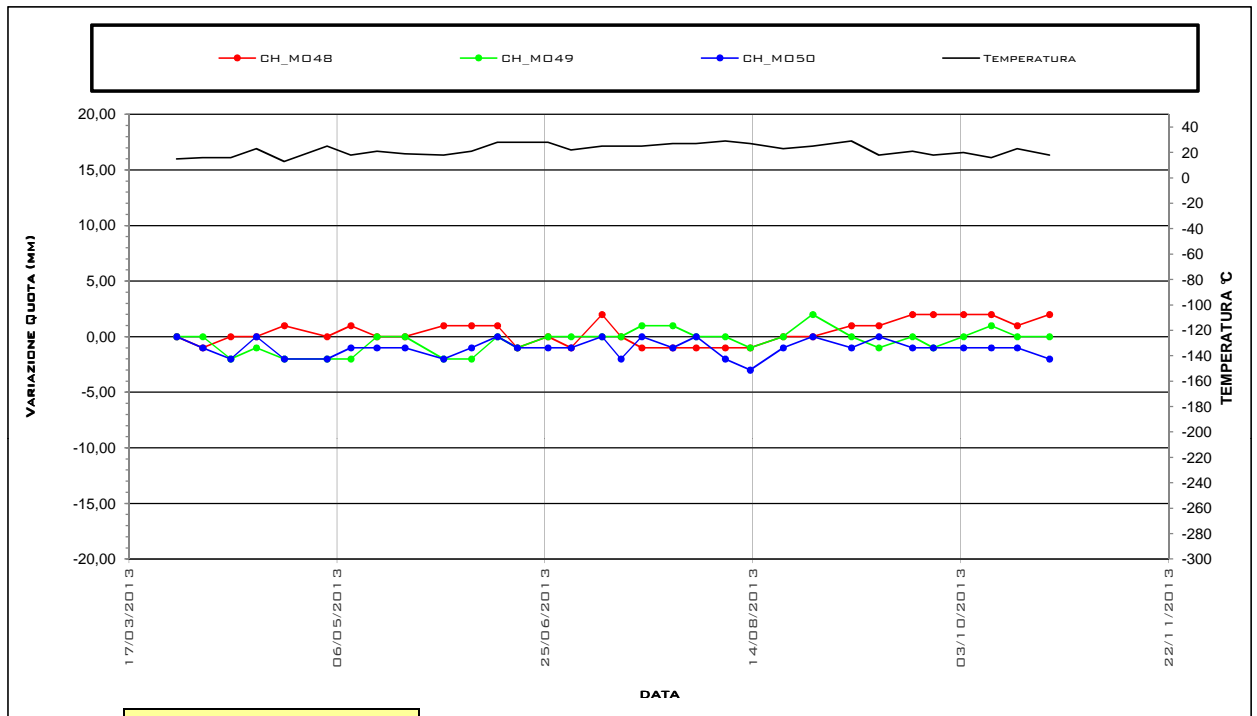
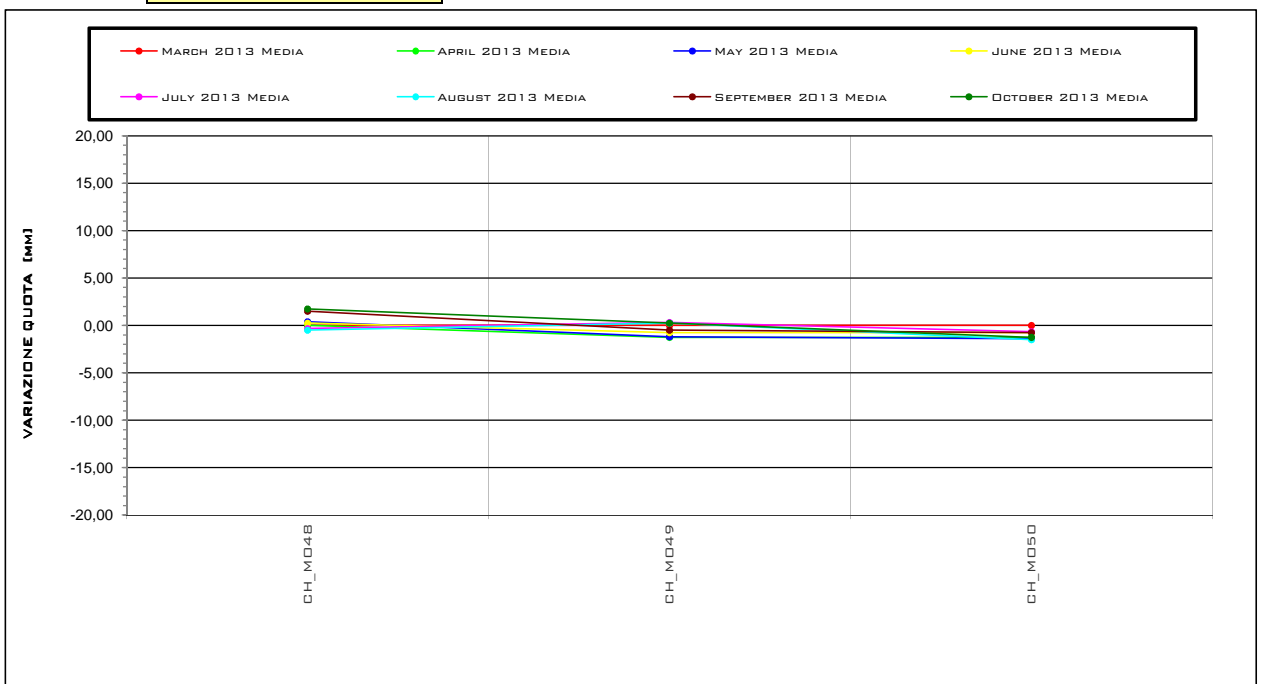


GRAFICO ISOCRONE





Ubicazione STAZIONE CHIAIA
Opera \ \ Supplementari \ 48-50
Tipo Strumento Mire Ottiche
Data posa in opera 28/03/2013
Data lettura di zero 28/03/2013

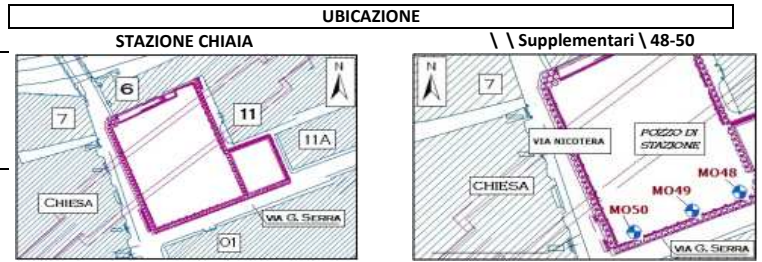


GRAFICO EST

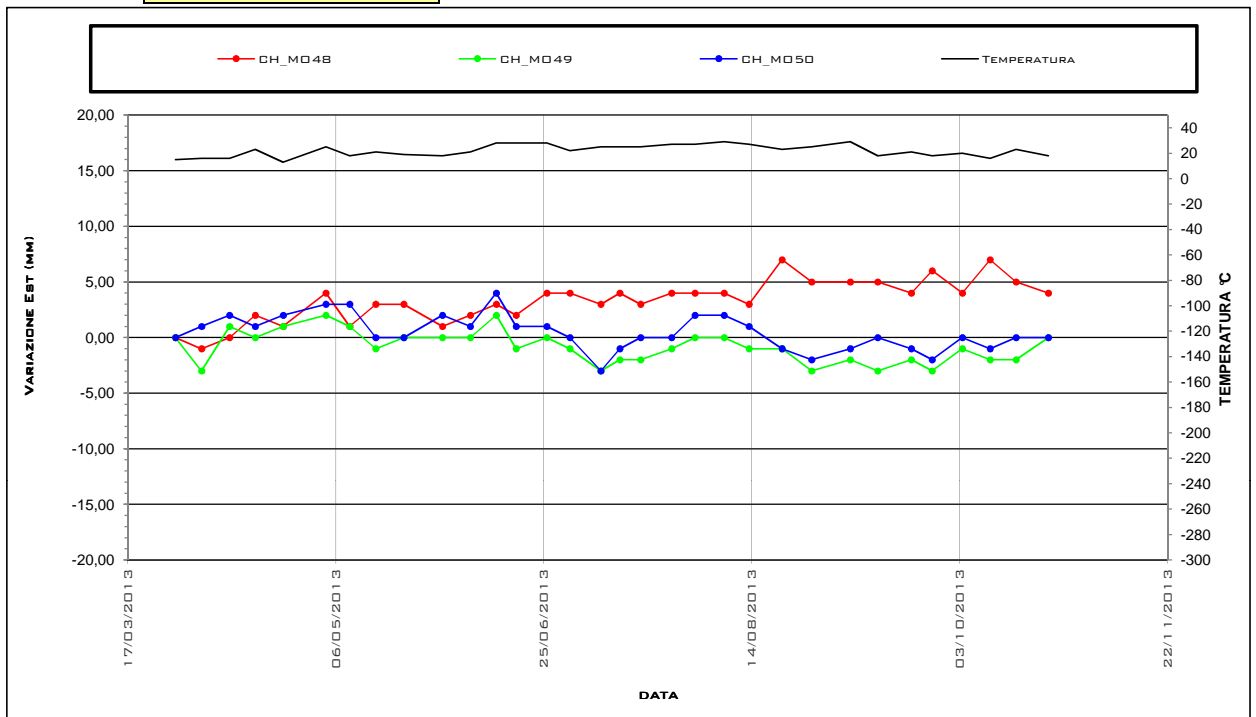
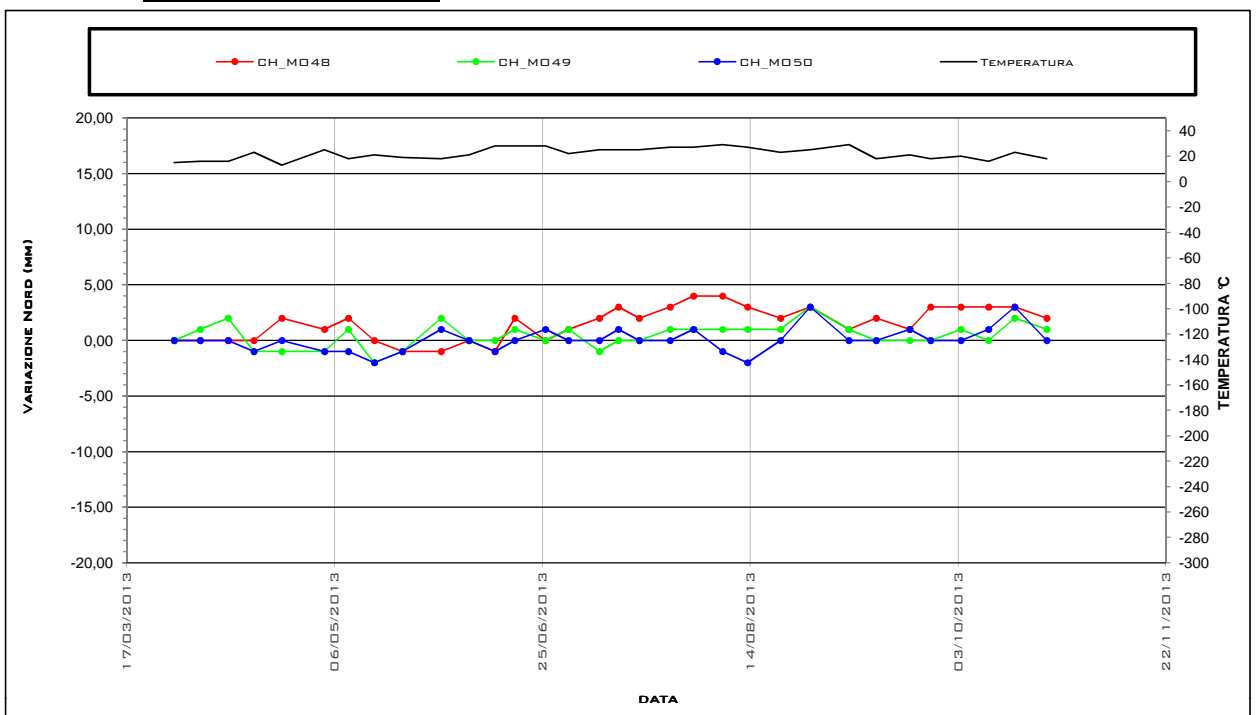


GRAFICO NORD





Ubicazione STAZIONE CHIAIA

Opera \ \ Supplementari \ 51-53

Tipo Strumento Mire Ottiche

Data posa in opera 03/04/2013

Data lettura di zero 03/04/2013

Ultima Misura 32 in data 24/10/2013

Letto. n°	DATA	CH_M051					CH_M052					CH_M053				
		Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]
1	28/03/2013 11.00						15,0	21,9	0,0	0,0	0,0	15,0	22,3	0,0	0,0	0,0
2	03/04/2013 17.30	16,0	21,6	0,0	0,0	0,0	16,0	21,9	-1,0	1,0	0,0	16,0	22,3	1,0	0,0	-1,0
3	10/04/2013 10.30	16,0	21,6	0,0	1,0	0,0	16,0	21,9	-2,0	1,0	1,0	16,0	22,3	0,0	-1,0	0,0
4	16/04/2013 15.00	23,0	21,6	1,0	0,0	0,0	23,0	21,9	-1,0	1,0	0,0	23,0	22,3	0,0	0,0	-1,0
5	23/04/2013 08.30	13,0	21,6	-2,0	0,0	0,0	13,0	21,9	-2,0	2,0	0,0	13,0	22,3	-2,0	0,0	-2,0
6	03/05/2013 14.30	25,0	21,6	0,0	2,0	0,0	25,0	21,9	-1,0	3,0	0,0	25,0	22,3	0,0	1,0	-1,0
7	09/05/2013 08.30	18,0	21,6	0,0	2,0	0,0	18,0	21,9	-2,0	2,0	0,0	18,0	22,3	-1,0	-1,0	0,0
8	15/05/2013 14.30	21,0	21,6	0,0	1,0	-1,0	21,0	21,9	0,0	2,0	0,0	21,0	22,3	1,0	1,0	-2,0
9	22/05/2013 08.30	19,0	21,6	0,0	0,0	0,0	19,0	21,9	-2,0	1,0	0,0	19,0	22,3	-1,0	-1,0	0,0
10	31/05/2013 15.30	18,0	21,6	-2,0	1,0	1,0	18,0	21,9	-3,0	2,0	1,0	18,0	22,3	-2,0	0,0	0,0
11	07/06/2013 08.30	21,0	21,6	-1,0	1,0	1,0	21,0	21,9	-2,0	1,0	1,0	21,0	22,3	-1,0	0,0	0,0
12	13/06/2013 14.30	28,0	21,6	0,0	4,0	-1,0	28,0	21,9	0,0	4,0	-1,0	28,0	22,3	0,0	1,0	-2,0
13	18/06/2013 09.00	28,0	21,6	0,0	2,0	1,0	28,0	21,9	-2,0	2,0	2,0	28,0	22,3	-1,0	-1,0	0,0
14	25/06/2013 18.00	28,0	21,6	-2,0	1,0	2,0	28,0	21,9	-2,0	2,0	2,0	28,0	22,3	0,0	0,0	0,0
15	01/07/2013 07.30	22,0	21,6	-1,0	2,0	2,0	22,0	21,9	-2,0	3,0	2,0	22,0	22,3	0,0	2,0	0,0
16	08/07/2013 17.30	25,0	21,6	0,0	-1,0	1,0	25,0	21,9	-2,0	-1,0	0,0	25,0	22,3	0,0	0,0	0,0
17	13/07/2013 07.30	25,0	21,6	-2,0	1,0	3,0	25,0	21,9	-3,0	2,0	1,0	25,0	22,3	-2,0	0,0	0,0
18	18/07/2013 07.30	25,0	21,6	-1,0	1,0	1,0	25,0	21,9	-2,0	1,0	1,0	25,0	22,3	0,0	0,0	0,0
19	25/07/2013 18.00	27,0	21,6	-1,0	1,0	1,0	27,0	21,9	-3,0	2,0	1,0	27,0	22,3	-1,0	1,0	0,0
20	31/07/2013 09.00	27,0	21,6	-2,0	1,0	1,0	27,0	21,9	-2,0	2,0	1,0	27,0	22,3	-1,0	0,0	0,0
21	07/08/2013 09.00	29,0	21,6	-3,0	1,0	1,0	29,0	21,9	-4,0	1,0	1,0	29,0	22,3	-2,0	0,0	0,0
22	13/08/2013 09.00	27,0	21,6	-4,0	0,0	1,0	27,0	21,9	-5,0	0,0	1,0	27,0	22,3	-3,0	-1,0	1,0
23	21/08/2013 07.30	23,0	21,6	-2,0	1,0	1,0	23,0	21,9	-2,0	3,0	2,0	23,0	22,3	-1,0	2,0	0,0
24	28/08/2013 10.30	25,0	21,6	0,0	0,0	4,0	25,0	21,9	-1,0	1,0	3,0	25,0	22,3	1,0	1,0	3,0
25	06/09/2013 17.30	29,0	21,6	-1,0	0,0	0,0	29,0	21,9	-2,0	1,0	2,0	29,0	22,3	1,0	0,0	0,0
26	13/09/2013 07.30	18,0	21,6	-2,0	1,0	1,0	18,0	21,9	-2,0	1,0	1,0	18,0	22,3	0,0	0,0	0,0
27	21/09/2013 09.30	21,0	21,6	-3,0	0,0	2,0	21,0	21,9	-4,0	2,0	1,0	21,0	22,3	-2,0	0,0	1,0
28	26/09/2013 09.30	18,0	21,6	-2,0	0,0	2,0	18,0	21,9	-3,0	1,0	1,0	18,0	22,3	0,0	0,0	0,0
29	03/10/2013 16.30	20,0	21,6	-1,0	1,0	2,0	20,0	21,9	-2,0	2,0	3,0	20,0	22,3	-1,0	0,0	1,0
30	10/10/2013 08.30	16,0	21,6	-1,0	1,0	2,0	16,0	21,9	-2,0	2,0	1,0	16,0	22,3	-1,0	0,0	0,0
31	16/10/2013 14.30	23,0	21,6	-3,0	0,0	3,0	23,0	21,9	-3,0	2,0	3,0	23,0	22,3	-1,0	-1,0	0,0
32	24/10/2013 08.30	18,0	21,6	-2,0	1,0	2,0	18,0	21,9	-3,0	4,0	1,0	18,0	22,3	-1,0	1,0	0,0



Ubicazione STAZIONE CHIAIA
Opera \ \ Supplementari \ 51-53
Tipo Strumento Mire Ottiche
Data posa in opera 03/04/2013
Data lettura di zero 03/04/2013

GRAFICO QUOTA

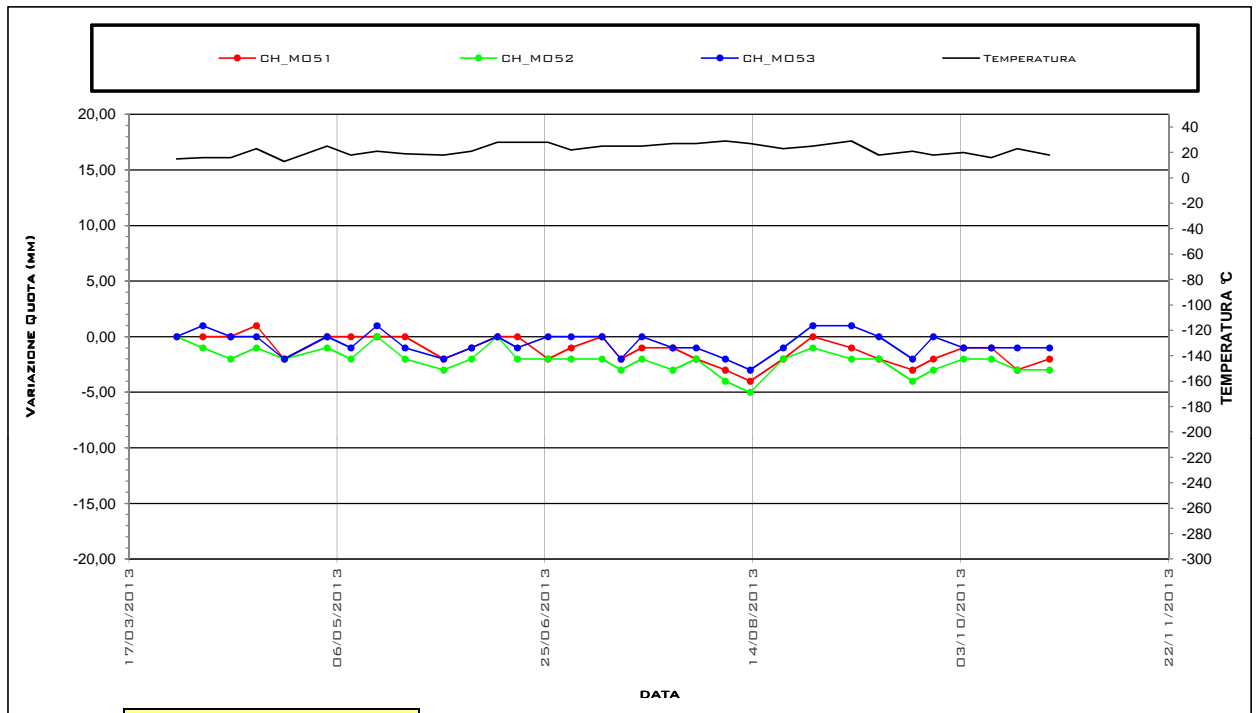
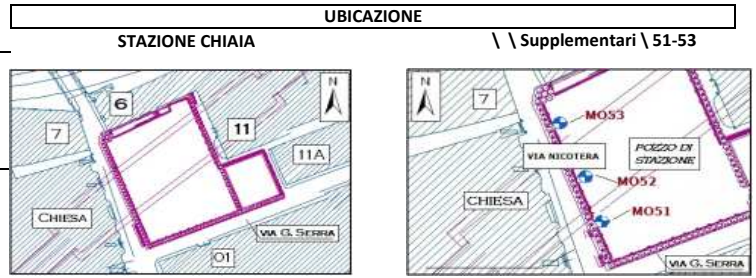
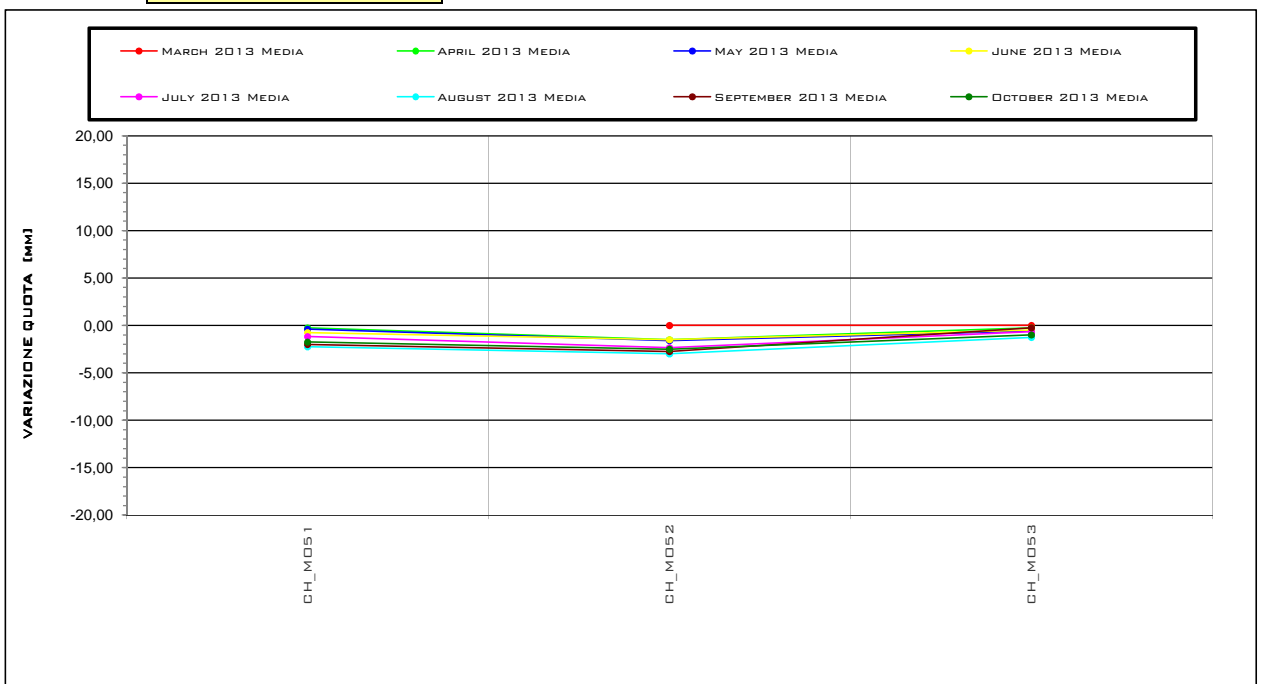


GRAFICO ISOCRONE





Ubicazione STAZIONE CHIAIA
Opera \ \ Supplementari \ 51-53
Tipo Strumento Mire Ottiche
Data posa in opera 03/04/2013
Data lettura di zero 03/04/2013

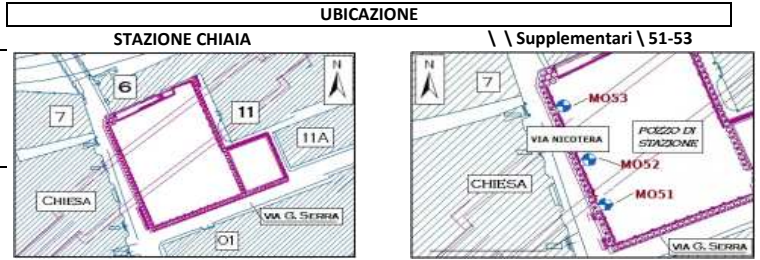


GRAFICO EST

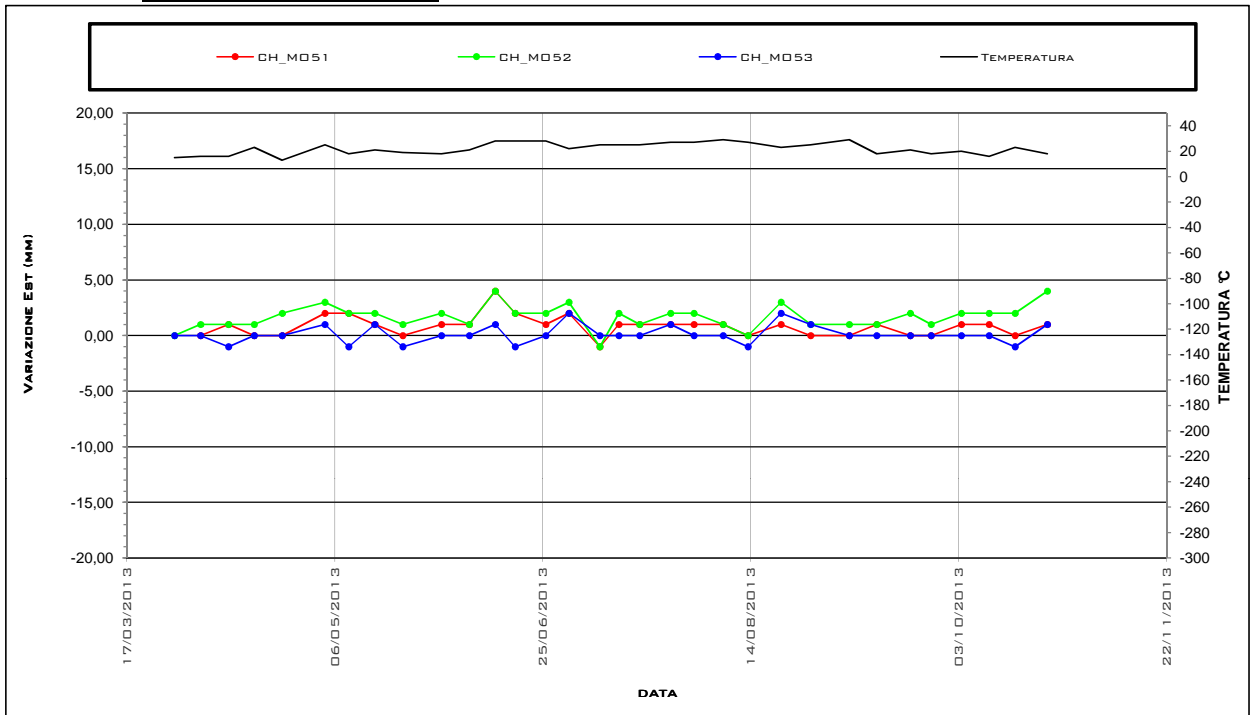
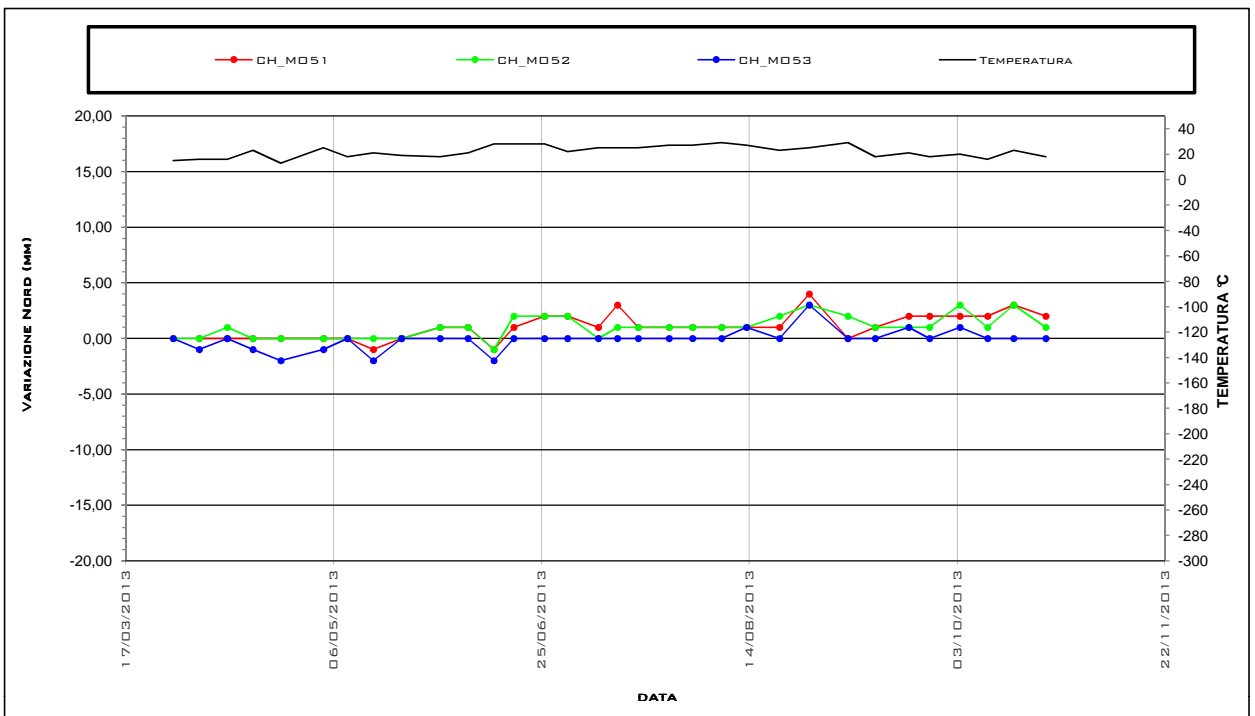


GRAFICO NORD





Ubicazione STAZIONE CHIAIA

Opera \ \ Supplementari \ 54-55

Tipo Strumento Mire Ottiche

Data posa in opera 28/03/2013

Data lettura di zero 28/03/2013

Ultima Misura 32 in data 24/10/2013

Letto. n°	DATA	CH_M054					CH_M055				
		Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]
1	28/03/2013 11.00	15,0	14,4	0,0	0,0	0,0	15,0	14,5	0,0	0,0	0,0
2	03/04/2013 17.30	16,0	14,4	-2,0	-2,0	0,0	16,0	14,5	0,0	0,0	0,0
3	10/04/2013 10.30	16,0	14,4	-2,0	-2,0	0,0	16,0	14,5	0,0	1,0	2,0
4	16/04/2013 15.00	23,0	14,4	-1,0	-1,0	-1,0	23,0	14,5	0,0	1,0	-1,0
5	23/04/2013 08.30	13,0	14,4	-2,0	-2,0	-1,0	13,0	14,5	-1,0	0,0	1,0
6	03/05/2013 14.30	25,0	14,4	0,0	-1,0	-1,0	25,0	14,5	0,0	2,0	1,0
7	09/05/2013 08.30	18,0	14,4	-1,0	-3,0	-1,0	18,0	14,5	0,0	1,0	3,0
8	15/05/2013 14.30	21,0	14,4	0,0	0,0	-2,0	21,0	14,5	0,0	2,0	0,0
9	22/05/2013 08.30	19,0	14,4	-1,0	-3,0	-1,0	19,0	14,5	0,0	2,0	0,0
10	31/05/2013 15.30	18,0	14,4	-2,0	-3,0	0,0	18,0	14,5	1,0	1,0	0,0
11	07/06/2013 08.30	21,0	14,4	-2,0	-2,0	-1,0	21,0	14,5	1,0	2,0	1,0
12	13/06/2013 14.30	28,0	14,4	0,0	-2,0	-3,0	28,0	14,5	2,0	4,0	-1,0
13	18/06/2013 09.00	28,0	14,4	-2,0	-3,0	0,0	28,0	14,5	1,0	1,0	0,0
14	25/06/2013 18.00	28,0	14,4	-1,0	-2,0	0,0	28,0	14,5	1,0	3,0	0,0
15	01/07/2013 07.30	22,0	14,4	0,0	-2,0	-1,0	22,0	14,5	1,0	2,0	0,0
16	08/07/2013 17.30	25,0	14,4	1,0	-3,0	-1,0	25,0	14,5	0,0	2,0	1,0
17	13/07/2013 07.30	25,0	14,4	0,0	-2,0	0,0	25,0	14,5	0,0	1,0	0,0
18	18/07/2013 07.30	25,0	14,4	1,0	-3,0	0,0	25,0	14,5	0,0	2,0	-1,0
19	25/07/2013 18.00	27,0	14,4	0,0	-2,0	-1,0	27,0	14,5	0,0	2,0	-1,0
20	31/07/2013 09.00	27,0	14,4	0,0	-4,0	-1,0	27,0	14,5	2,0	2,0	-1,0
21	07/08/2013 09.00	29,0	14,4	-2,0	-4,0	0,0	29,0	14,5	2,0	2,0	-1,0
22	13/08/2013 09.00	27,0	14,4	-3,0	-5,0	1,0	27,0	14,5	2,0	1,0	-1,0
23	21/08/2013 07.30	23,0	14,4	0,0	-1,0	-1,0	23,0	14,5	1,0	3,0	-1,0
24	28/08/2013 10.30	25,0	14,4	1,0	-3,0	1,0	25,0	14,5	2,0	3,0	0,0
25	06/09/2013 17.30	29,0	14,4	0,0	-4,0	-1,0	29,0	14,5	3,0	3,0	0,0
26	13/09/2013 07.30	18,0	14,4	0,0	-3,0	-2,0	18,0	14,5	2,0	3,0	-2,0
27	21/09/2013 09.30	21,0	14,4	-1,0	-4,0	-1,0	21,0	14,5	3,0	3,0	-1,0
28	26/09/2013 09.30	18,0	14,4	0,0	-4,0	-1,0	18,0	14,5	3,0	3,0	-1,0
29	03/10/2013 16.30	20,0	14,4	0,0	-3,0	0,0	20,0	14,5	3,0	2,0	0,0
30	10/10/2013 08.30	16,0	14,4	0,0	-4,0	-1,0	16,0	14,5	2,0	4,0	1,0
31	16/10/2013 14.30	23,0	14,4	0,0	-5,0	0,0	23,0	14,5	3,0	4,0	1,0
32	24/10/2013 08.30	18,0	14,4	-1,0	-3,0	-1,0	18,0	14,5	2,0	4,0	2,0



Ubicazione STAZIONE CHIAIA
Opera \ \ Supplementari \ 54-55
Tipo Strumento Mire Ottiche
Data posa in opera 28/03/2013
Data lettura di zero 28/03/2013

UBICAZIONE

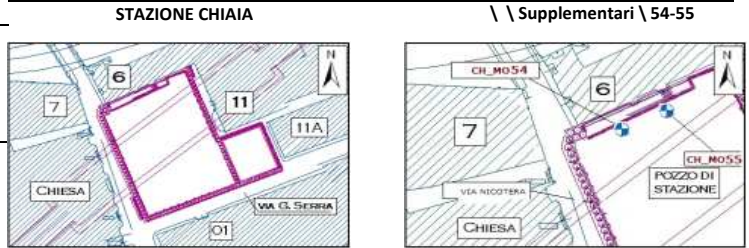


GRAFICO QUOTA

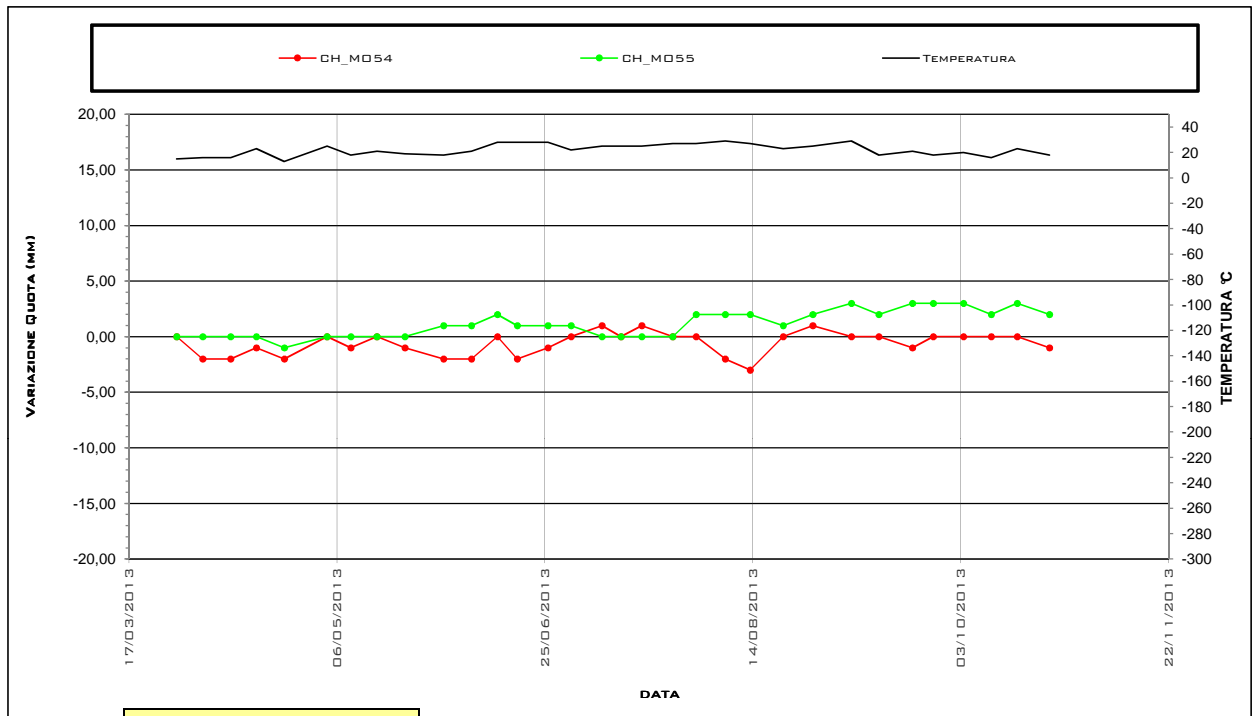
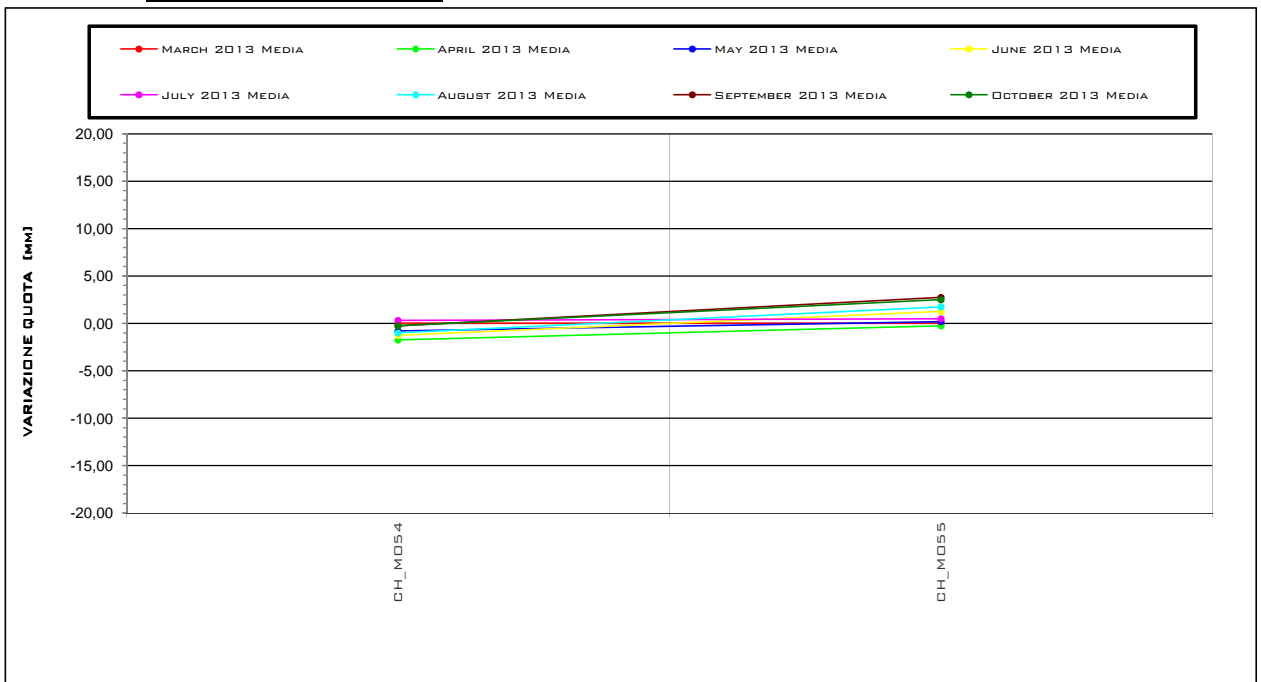


GRAFICO ISOCRONE





Ubicazione STAZIONE CHIAIA
Opera \ \ Supplementari \ 54-55
Tipo Strumento Mire Ottiche
Data posa in opera 28/03/2013
Data lettura di zero 28/03/2013

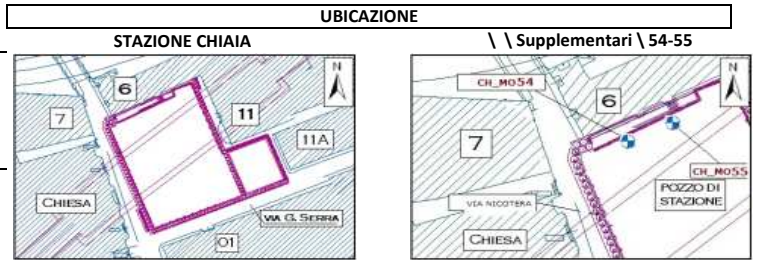


GRAFICO EST

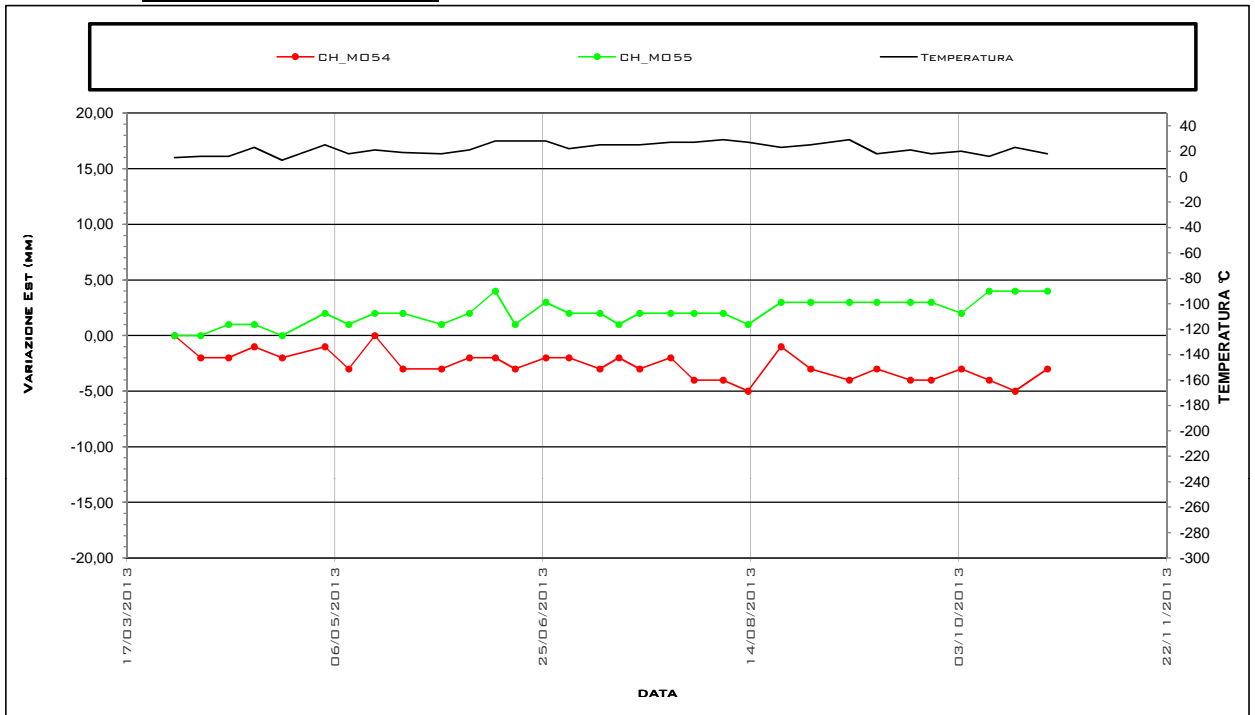
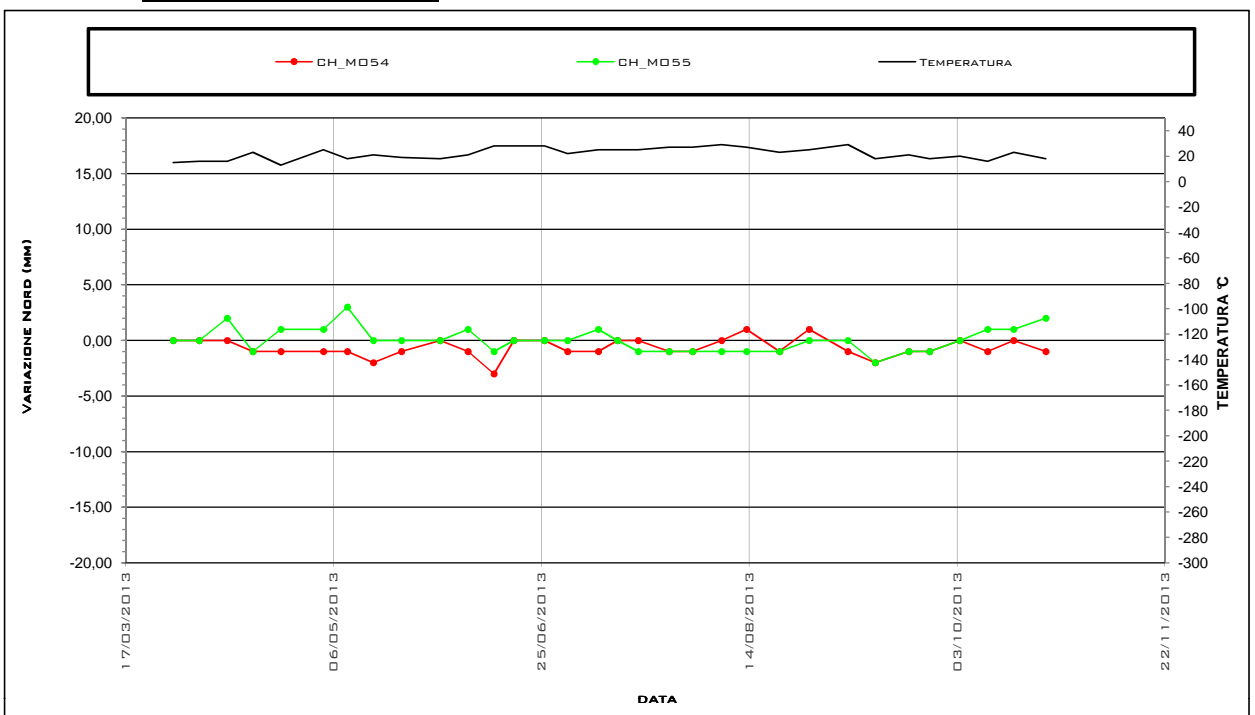


GRAFICO NORD





Ubicazione STAZIONE CHIAIA

Opera \ \ Supplementari \ 56-59

Tipo Strumento Mire Ottiche

Data posa in opera 28/03/2013

Data lettura di zero 28/03/2013

Ultima Misura 32 in data 24/10/2013

Letto. n°	DATA	CH_M056					CH_M057					CH_M058					CH_M059				
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1	28/03/2013 11.00	15,0	9,4	0,0	0,0	0,0	15,0	9,6	0,0	0,0	0,0	15,0	11,3	0,0	0,0	0,0	15,0	11,3	0,0	0,0	0,0
2	03/04/2013 17.30	16,0	9,4	-2,0	0,0	0,0	16,0	9,6	0,0	-2,0	0,0	16,0	11,3	0,0	-3,0	2,0	16,0	11,3	-1,0	1,0	2,0
3	10/04/2013 10.30	16,0	9,4	-2,0	1,0	0,0	16,0	9,6	1,0	-1,0	1,0	16,0	11,3	-1,0	-2,0	1,0	16,0	11,3	-1,0	1,0	3,0
4	16/04/2013 15.00	23,0	9,4	-3,0	2,0	0,0	23,0	9,6	0,0	1,0	0,0	23,0	11,3	-1,0	3,0	0,0	23,0	11,3	0,0	0,0	1,0
5	23/04/2013 08.30	13,0	9,4	-2,0	2,0	1,0	13,0	9,6	0,0	-1,0	1,0	13,0	11,3	0,0	1,0	2,0	13,0	11,3	-2,0	2,0	2,0
6	03/05/2013 14.30	25,0	9,4	-2,0	3,0	0,0	25,0	9,6	0,0	2,0	1,0	25,0	11,3	-1,0	4,0	1,0	25,0	11,3	0,0	2,0	2,0
7	09/05/2013 08.30	18,0	9,4	-1,0	1,0	2,0	18,0	9,6	-1,0	1,0	3,0	18,0	11,3	0,0	2,0	3,0	18,0	11,3	-1,0	2,0	2,0
8	15/05/2013 14.30	21,0	9,4	-2,0	3,0	0,0	21,0	9,6	0,0	2,0	1,0	21,0	11,3	-1,0	3,0	1,0	21,0	11,3	1,0	0,0	0,0
9	22/05/2013 08.30	19,0	9,4	-2,0	1,0	-1,0	19,0	9,6	0,0	0,0	0,0	19,0	11,3	-1,0	3,0	2,0	19,0	11,3	0,0	0,0	1,0
10	31/05/2013 15.30	18,0	9,4	-2,0	2,0	-1,0	18,0	9,6	0,0	0,0	0,0	18,0	11,3	0,0	0,0	0,0	18,0	11,3	-3,0	1,0	3,0
11	07/06/2013 08.30	21,0	9,4	0,0	1,0	-1,0	21,0	9,6	-1,0	1,0	0,0	21,0	11,3	0,0	2,0	1,0	21,0	11,3	-2,0	1,0	2,0
12	13/06/2013 14.30	28,0	9,4	-1,0	3,0	-2,0	28,0	9,6	1,0	3,0	-1,0	28,0	11,3	1,0	3,0	2,0	28,0	11,3	0,0	3,0	2,0
13	18/06/2013 09.00	28,0	9,4	-2,0	1,0	1,0	28,0	9,6	-1,0	1,0	1,0	28,0	11,3	-1,0	2,0	3,0	28,0	11,3	0,0	1,0	2,0
14	25/06/2013 18.00	28,0	9,4	-1,0	2,0	-1,0	28,0	9,6	0,0	2,0	0,0	28,0	11,3	0,0	4,0	2,0	28,0	11,3	0,0	1,0	3,0
15	01/07/2013 07.30	22,0	9,4	-2,0	3,0	-1,0	22,0	9,6	-1,0	1,0	0,0	22,0	11,3	0,0	5,0	2,0	22,0	11,3	0,0	0,0	1,0
16	08/07/2013 17.30	25,0	9,4	-3,0	3,0	1,0	25,0	9,6	-1,0	2,0	1,0	25,0	11,3	0,0	3,0	2,0	25,0	11,3	1,0	-2,0	2,0
17	13/07/2013 07.30	25,0	9,4	-2,0	1,0	0,0	25,0	9,6	-1,0	1,0	2,0	25,0	11,3	-2,0	4,0	3,0	25,0	11,3	0,0	-1,0	2,0
18	18/07/2013 07.30	25,0	9,4	-2,0	1,0	1,0	25,0	9,6	-1,0	1,0	2,0	25,0	11,3	-1,0	4,0	3,0	25,0	11,3	1,0	0,0	3,0
19	25/07/2013 18.00	27,0	9,4	-2,0	2,0	1,0	27,0	9,6	-1,0	1,0	3,0	27,0	11,3	-1,0	6,0	4,0	27,0	11,3	1,0	0,0	1,0
20	31/07/2013 09.00	27,0	9,4	-2,0	0,0	0,0	27,0	9,6	-1,0	1,0	3,0	27,0	11,3	-2,0	5,0	5,0	27,0	11,3	1,0	1,0	3,0
21	07/08/2013 09.00	29,0	9,4	-3,0	2,0	0,0	29,0	9,6	-1,0	2,0	2,0	29,0	11,3	-2,0	5,0	5,0	29,0	11,3	-1,0	1,0	1,0
22	13/08/2013 09.00	27,0	9,4	-4,0	3,0	1,0	27,0	9,6	-2,0	3,0	1,0	27,0	11,3	-1,0	4,0	5,0	27,0	11,3	-2,0	1,0	2,0
23	21/08/2013 07.30	23,0	9,4	-2,0	3,0	1,0	23,0	9,6	-2,0	3,0	2,0	23,0	11,3	-1,0	8,0	4,0	23,0	11,3	1,0	0,0	2,0
24	28/08/2013 10.30	25,0	9,4	-3,0	3,0	1,0	25,0	9,6	-2,0	2,0	3,0	25,0	11,3	0,0	6,0	4,0	25,0	11,3	2,0	-3,0	5,0
25	06/09/2013 17.30	29,0	9,4	-2,0	3,0	1,0	29,0	9,6	-1,0	2,0	2,0	29,0	11,3	1,0	6,0	3,0	29,0	11,3	0,0	-2,0	1,0
26	13/09/2013 07.30	18,0	9,4	-2,0	2,0	1,0	18,0	9,6	-1,0	2,0	1,0	18,0	11,3	1,0	5,0	3,0	18,0	11,3	1,0	0,0	1,0
27	21/09/2013 09.30	21,0	9,4	-3,0	3,0	-1,0	21,0	9,6	-1,0	2,0	1,0	21,0	11,3	1,0	5,0	2,0	21,0	11,3	1,0	0,0	3,0
28	26/09/2013 09.30	18,0	9,4	-3,0	3,0	0,0	18,0	9,6	-1,0	2,0	2,0	18,0	11,3	0,0	7,0	3,0	18,0	11,3	1,0	-1,0	3,0
29	03/10/2013 16.30	20,0	9,4	-3,0	3,0	0,0	20,0	9,6	-1,0	4,0	1,0	20,0	11,3	1,0	6,0	2,0	20,0	11,3	0,0	-1,0	4,0
30	10/10/2013 08.30	16,0	9,4	-3,0	4,0	1,0	16,0	9,6	0,0	3,0	3,0	16,0	11,3	1,0	8,0	3,0	16,0	11,3	0,0	-1,0	2,0
31	16/10/2013 14.30	23,0	9,4	-2,0	3,0	1,0	23,0	9,6	0,0	2,0	2,0	23,0	11,3	0,0	5,0	4,0	23,0	11,3	0,0	-2,0	3,0
32	24/10/2013 08.30	18,0	9,4	-3,0	3,0	1,0	18,0	9,6	-1,0	2,0	3,0	18,0	11,3	1,0	5,0	4,0	18,0	11,3	0,0	0,0	1,0



Ubicazione STAZIONE CHIAIA
Opera \ \ Supplementari \ 56-59
Tipo Strumento Mire Ottiche
Data posa in opera 28/03/2013
Data lettura di zero 28/03/2013

UBICAZIONE

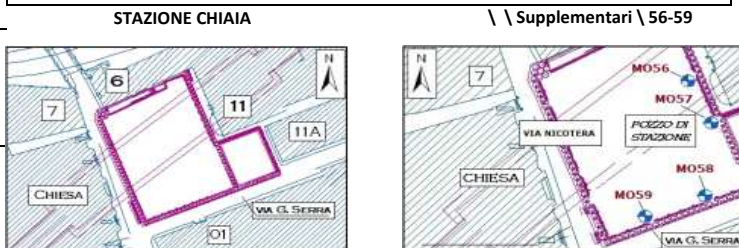


GRAFICO QUOTA

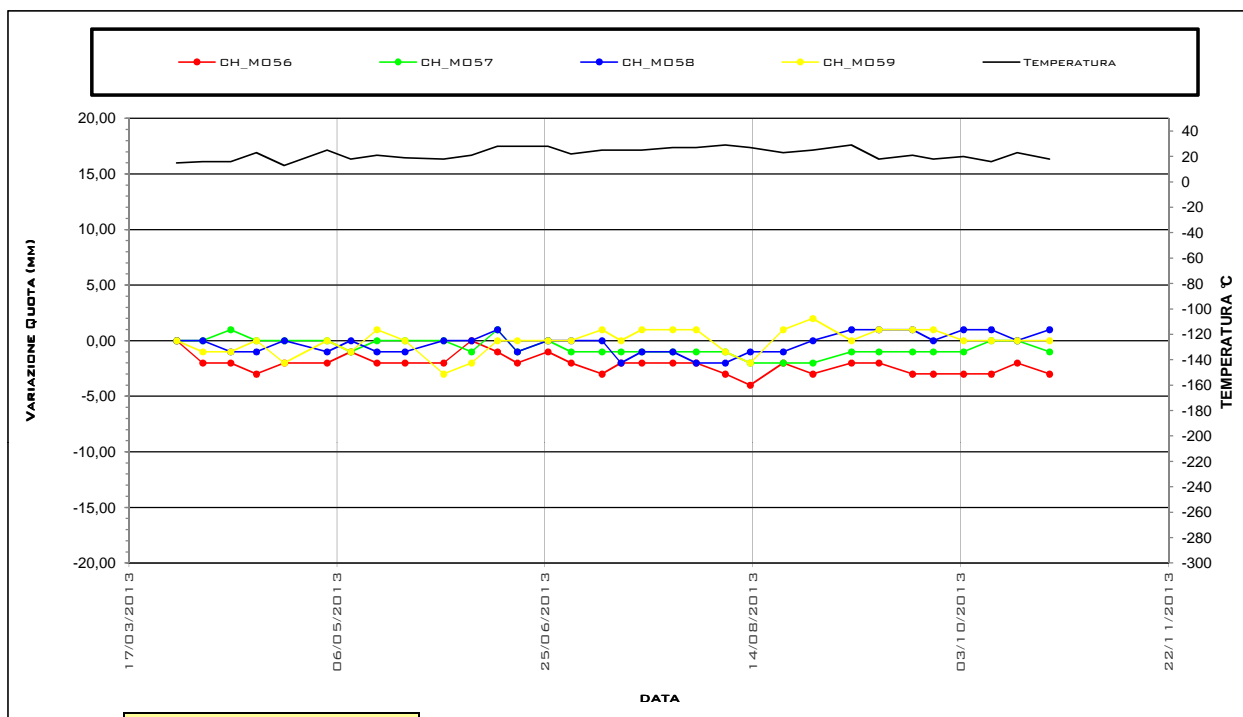
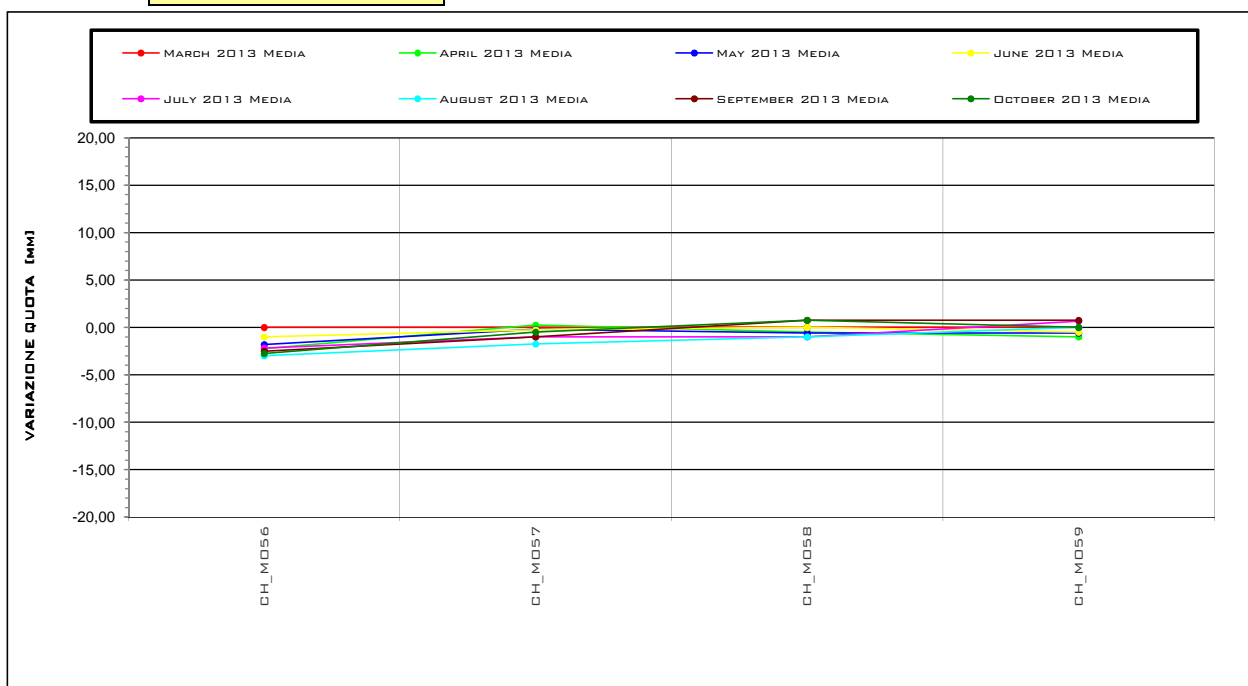


GRAFICO ISOCRONE





Ubicazione STAZIONE CHIAIA
Opera \ \ Supplementari \ 56-59
Tipo Strumento Mire Ottiche
Data posa in opera 28/03/2013
Data lettura di zero 28/03/2013

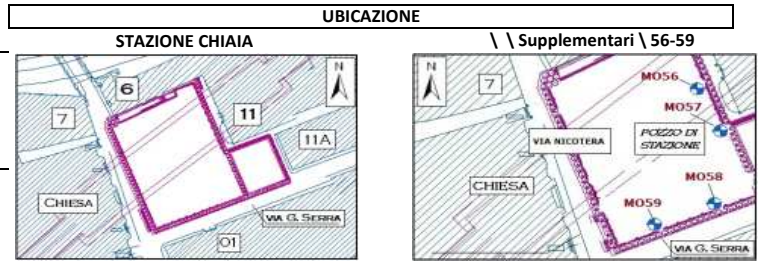


GRAFICO EST

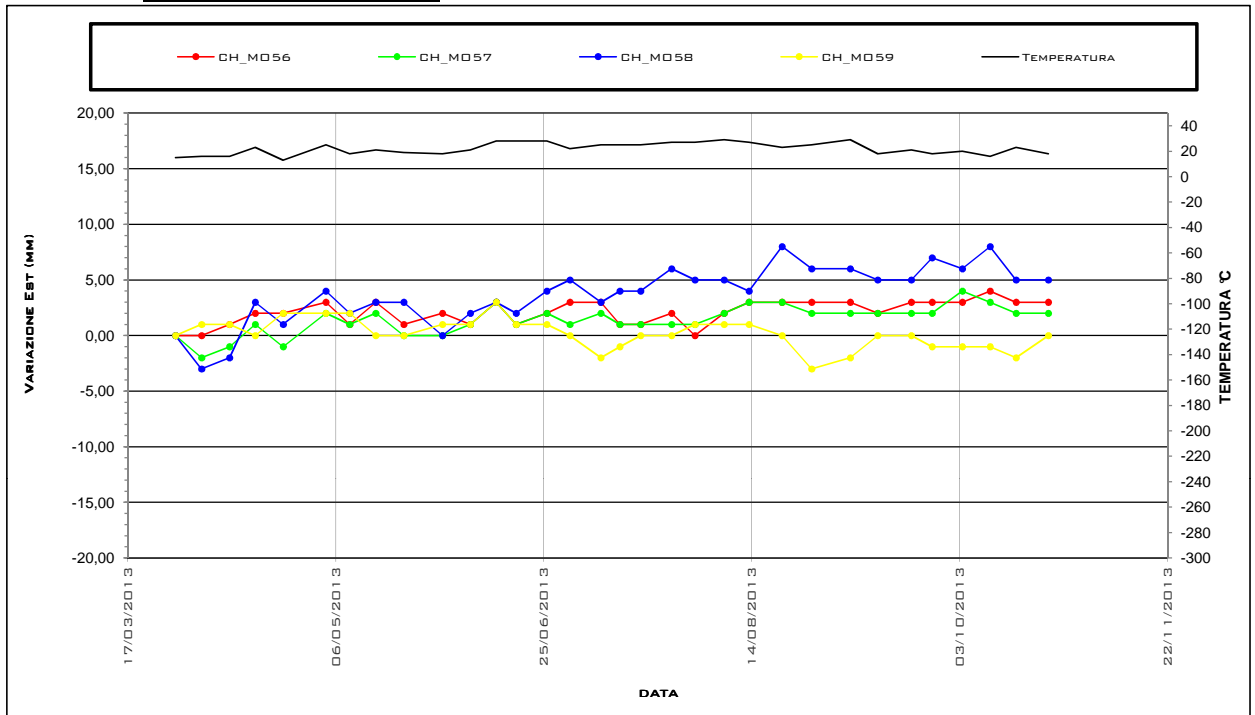
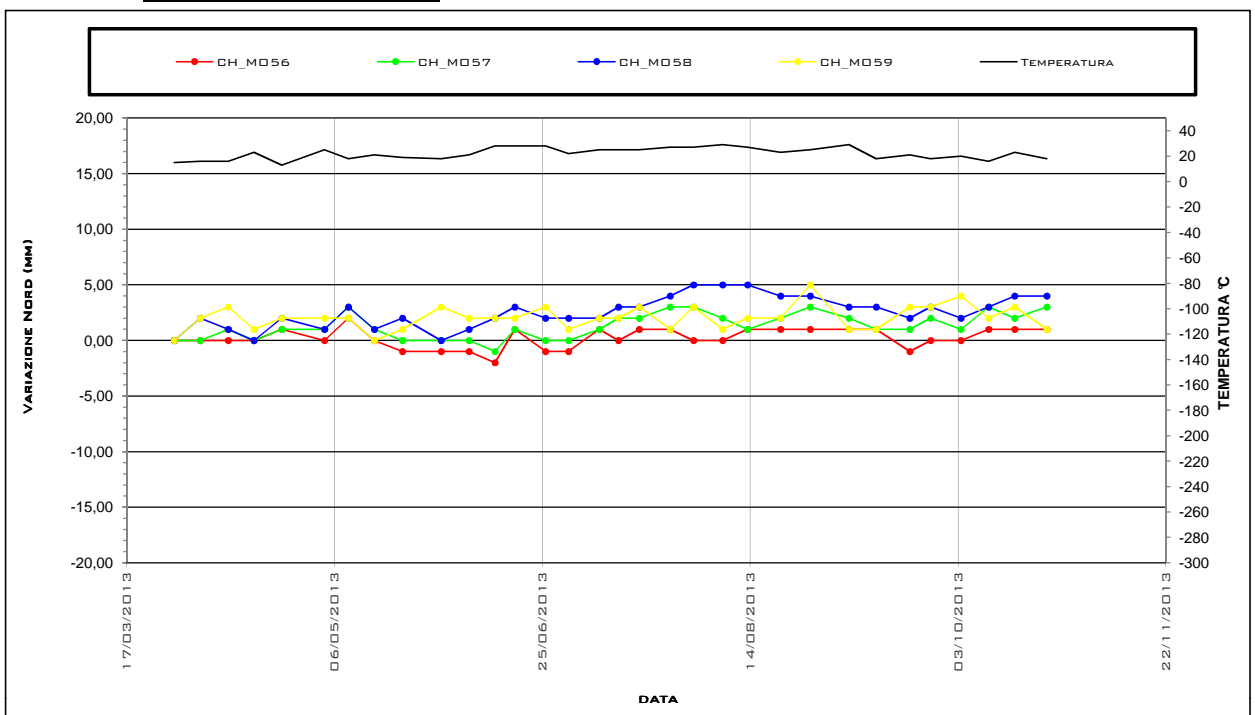


GRAFICO NORD





Ubicazione STAZIONE CHIAIA

Opera \ \ Supplementari \ 60-61

Tipo Strumento Mire Ottiche

Data posa in opera 28/03/2013

Data lettura di zero 28/03/2013

Ultima Misura 32 in data 24/10/2013

Letto. n°	DATA	CH_M060					CH_M061				
		Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]
1	28/03/2013 11.00	15,0	14,3	0,0	0,0	0,0	15,0	14,5	0,0	0,0	0,0
2	03/04/2013 17.30	16,0	14,3	-1,0	0,0	0,0	16,0	14,5	0,0	0,0	0,0
3	10/04/2013 10.30	16,0	14,3	0,0	1,0	1,0	16,0	14,5	0,0	-1,0	1,0
4	16/04/2013 15.00	23,0	14,3	-1,0	-1,0	0,0	23,0	14,5	1,0	-1,0	0,0
5	23/04/2013 08.30	13,0	14,3	-2,0	1,0	1,0	13,0	14,5	-1,0	0,0	0,0
6	03/05/2013 14.30	25,0	14,3	-1,0	2,0	-1,0	25,0	14,5	1,0	0,0	0,0
7	09/05/2013 08.30	18,0	14,3	-2,0	1,0	1,0	18,0	14,5	-1,0	-1,0	-1,0
8	15/05/2013 14.30	21,0	14,3	0,0	0,0	0,0	21,0	14,5	0,0	0,0	0,0
9	22/05/2013 08.30	19,0	14,3	-2,0	0,0	0,0	19,0	14,5	0,0	-1,0	1,0
10	31/05/2013 15.30	18,0	14,3	-2,0	1,0	1,0	18,0	14,5	0,0	-1,0	1,0
11	07/06/2013 08.30	21,0	14,3	-2,0	1,0	1,0	21,0	14,5	-1,0	1,0	2,0
12	13/06/2013 14.30	28,0	14,3	-1,0	4,0	-1,0	28,0	14,5	0,0	2,0	-1,0
13	18/06/2013 09.00	28,0	14,3	-2,0	2,0	2,0	28,0	14,5	-1,0	0,0	2,0
14	25/06/2013 18.00	28,0	14,3	-3,0	1,0	1,0	28,0	14,5	-2,0	0,0	1,0
15	01/07/2013 07.30	22,0	14,3	-4,0	0,0	1,0	22,0	14,5	-1,0	0,0	1,0
16	08/07/2013 17.30	25,0	14,3	-2,0	-2,0	0,0	25,0	14,5	-1,0	-1,0	1,0
17	13/07/2013 07.30	25,0	14,3	-3,0	0,0	2,0	25,0	14,5	-2,0	0,0	2,0
18	18/07/2013 07.30	25,0	14,3	-3,0	1,0	1,0	25,0	14,5	-1,0	-1,0	1,0
19	25/07/2013 18.00	27,0	14,3	-3,0	0,0	2,0	27,0	14,5	-2,0	0,0	1,0
20	31/07/2013 09.00	27,0	14,3	-2,0	1,0	1,0	27,0	14,5	0,0	0,0	2,0
21	07/08/2013 09.00	29,0	14,3	-4,0	0,0	1,0	29,0	14,5	-2,0	-2,0	2,0
22	13/08/2013 09.00	27,0	14,3	-5,0	-1,0	1,0	27,0	14,5	-3,0	-3,0	2,0
23	21/08/2013 07.30	23,0	14,3	-3,0	0,0	2,0	23,0	14,5	-2,0	0,0	2,0
24	28/08/2013 10.30	25,0	14,3	-2,0	-1,0	5,0	25,0	14,5	1,0	-2,0	4,0
25	06/09/2013 17.30	29,0	14,3	-2,0	0,0	2,0	29,0	14,5	0,0	-1,0	2,0
26	13/09/2013 07.30	18,0	14,3	-3,0	0,0	0,0	18,0	14,5	-1,0	0,0	0,0
27	21/09/2013 09.30	21,0	14,3	-4,0	-1,0	3,0	21,0	14,5	-1,0	-1,0	2,0
28	26/09/2013 09.30	18,0	14,3	-2,0	-1,0	1,0	18,0	14,5	-1,0	-2,0	1,0
29	03/10/2013 16.30	20,0	14,3	-3,0	0,0	2,0	20,0	14,5	-1,0	-2,0	2,0
30	10/10/2013 08.30	16,0	14,3	-3,0	-1,0	1,0	16,0	14,5	-1,0	-1,0	1,0
31	16/10/2013 14.30	23,0	14,3	-4,0	-1,0	2,0	23,0	14,5	-2,0	-2,0	2,0
32	24/10/2013 08.30	18,0	14,3	-4,0	1,0	1,0	18,0	14,5	-2,0	-1,0	0,0



Ubicazione STAZIONE CHIAIA
Opera \ \ Supplementari \ 60-61
Tipo Strumento Mire Ottiche
Data posa in opera 28/03/2013
Data lettura di zero 28/03/2013

UBICAZIONE

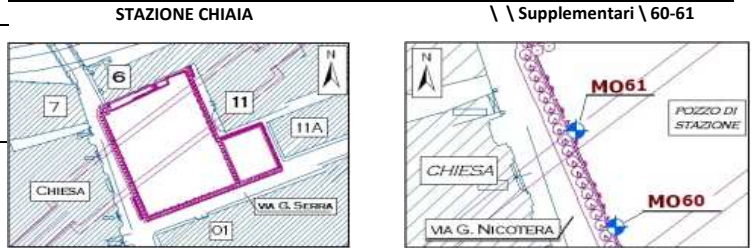


GRAFICO QUOTA

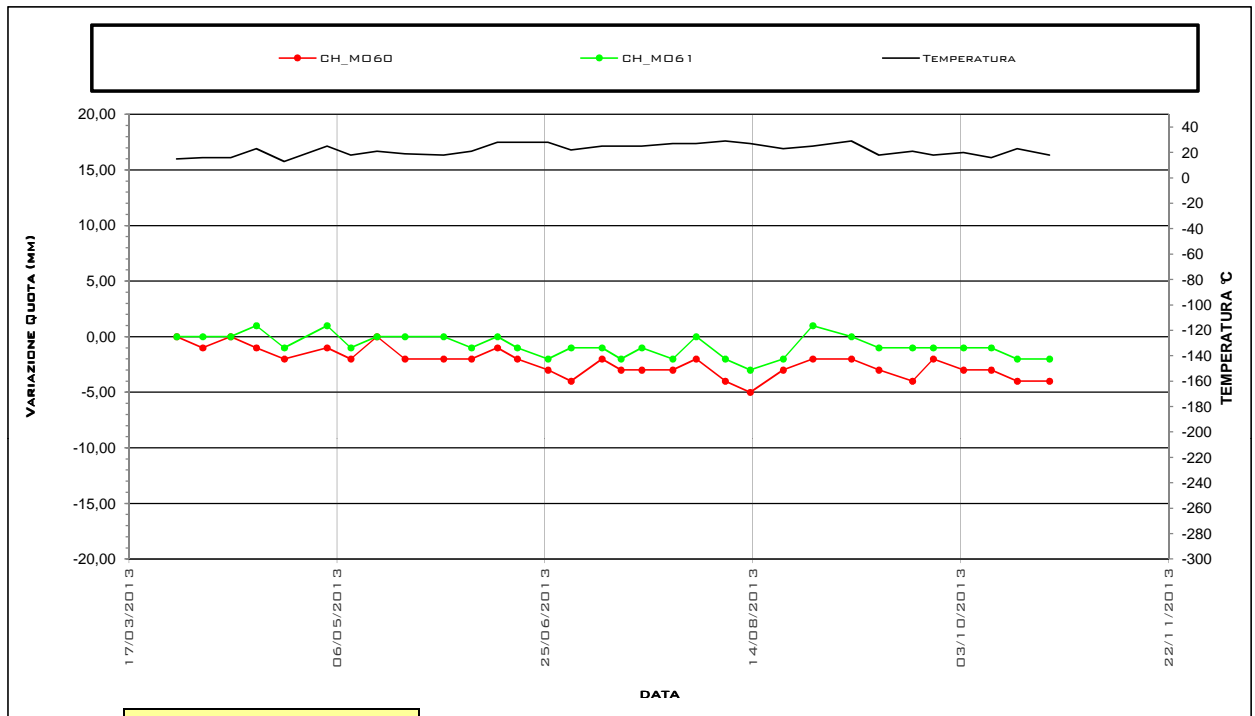
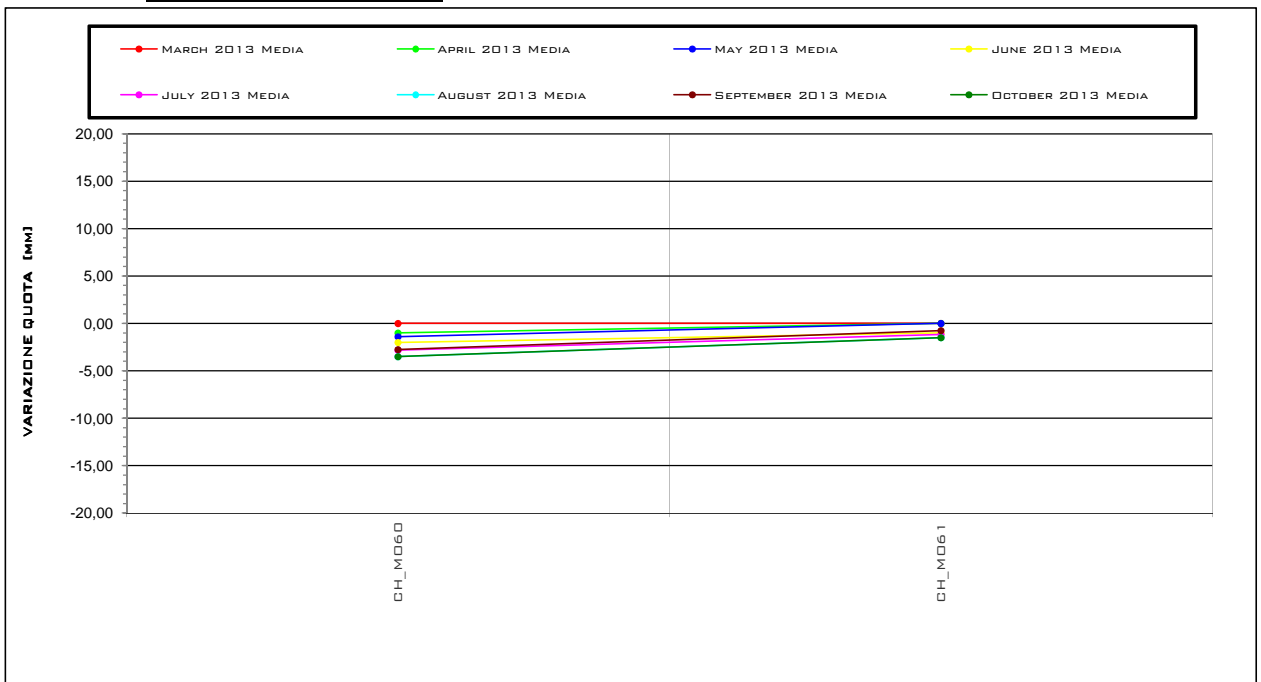


GRAFICO ISOCRONE





Ubicazione STAZIONE CHIAIA
Opera \ \ Supplementari \ 60-61
Tipo Strumento Mire Ottiche
Data posa in opera 28/03/2013
Data lettura di zero 28/03/2013

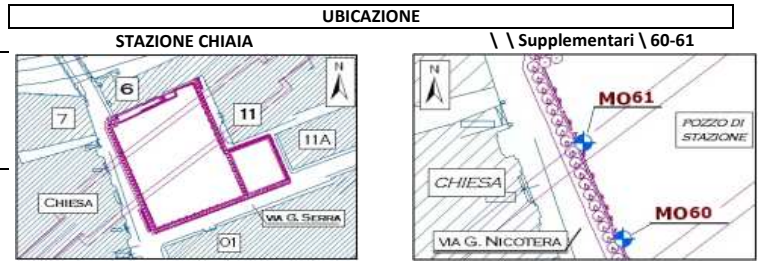


GRAFICO EST

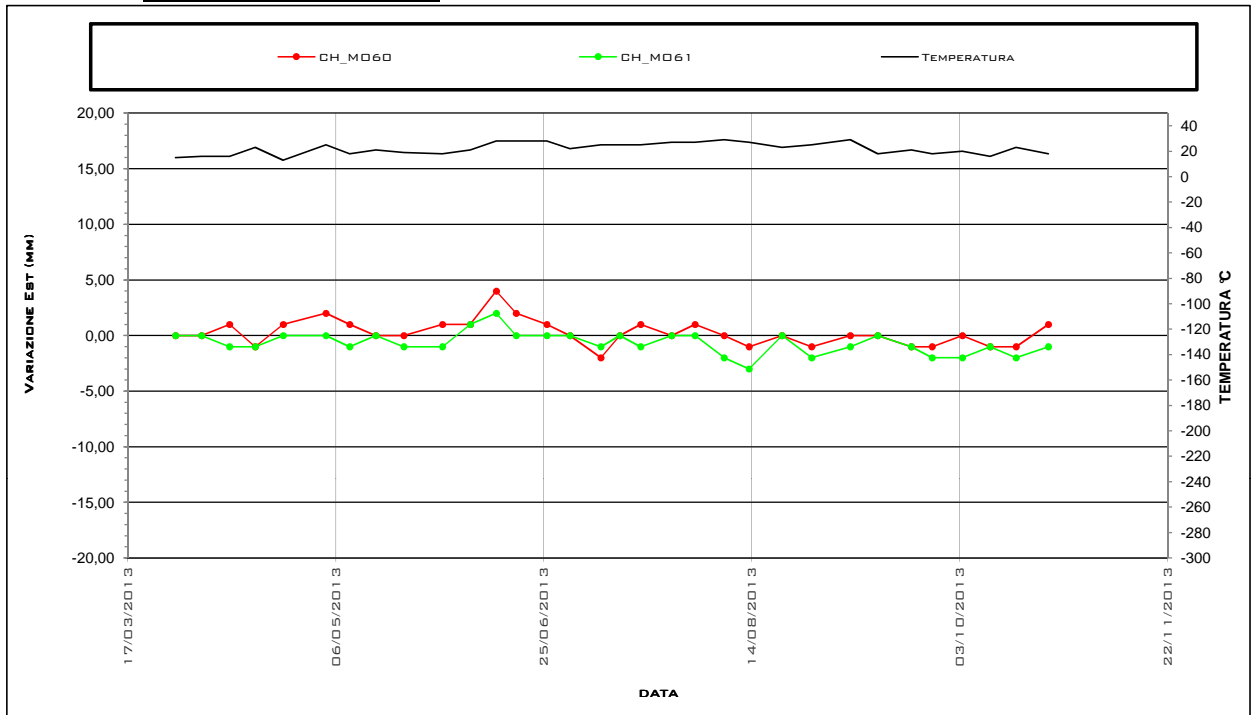
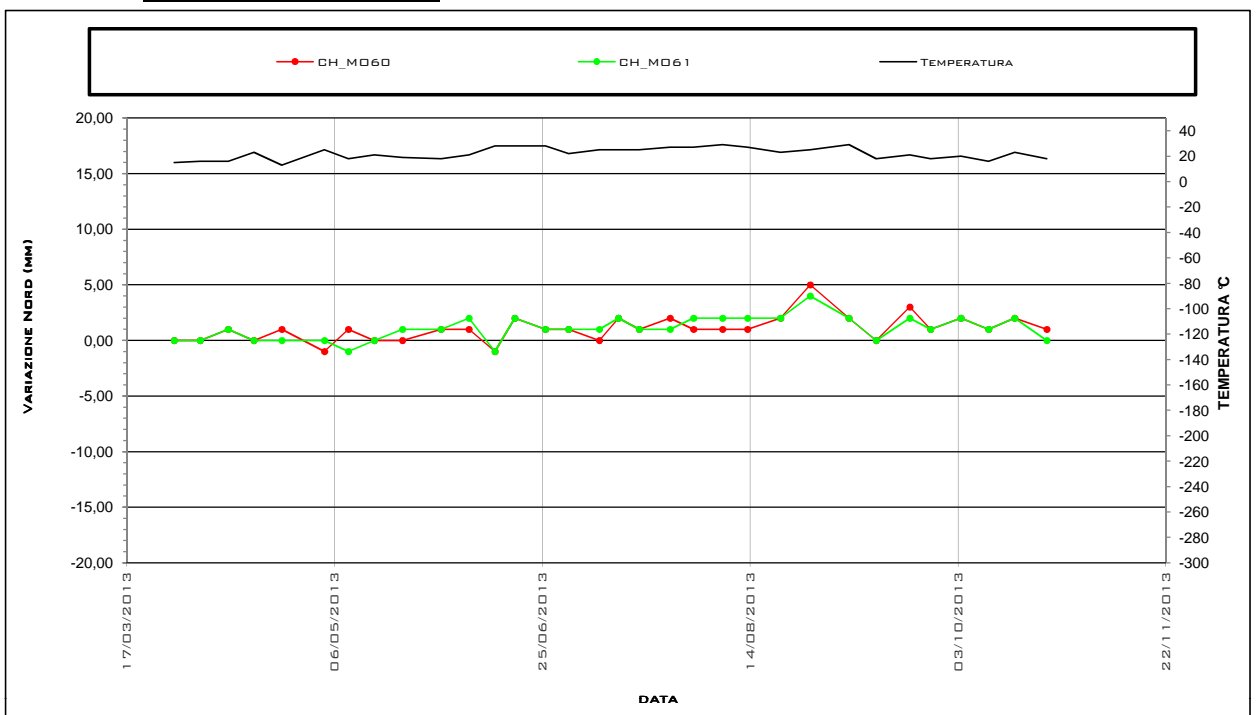


GRAFICO NORD





Ubicazione STAZIONE CHIAIA

Opera \ \ Supplementari \ 62-64

Tipo Strumento Mire Ottiche

Data posa in opera 28/03/2013

Data lettura di zero 28/03/2013

Ultima Misura 32 in data 24/10/2013

Letto. n°	DATA	CH_M062					CH_M063					CH_M064				
		Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]
1	28/03/2013 11.00	15,0	9,4	0,0	0,0	0,0	15,0	9,4	0,0	0,0	0,0	15,0	9,0	0,0	0,0	0,0
2	03/04/2013 17.30	16,0	9,4	-3,0	-2,0	0,0	16,0	9,4	2,0	-1,0	-1,0	16,0	9,0	0,0	-1,0	1,0
3	10/04/2013 10.30	16,0	9,4	-3,0	-2,0	0,0	16,0	9,4	2,0	0,0	1,0	16,0	9,0	-1,0	-1,0	2,0
4	16/04/2013 15.00	23,0	9,4	-3,0	0,0	-1,0	23,0	9,4	3,0	0,0	-3,0	23,0	9,0	0,0	-1,0	1,0
5	23/04/2013 08.30	13,0	9,4	-3,0	-2,0	0,0	13,0	9,4	1,0	0,0	-1,0	13,0	9,0	-2,0	1,0	1,0
6	03/05/2013 14.30	25,0	9,4	-3,0	-1,0	-2,0	25,0	9,4	1,0	1,0	-2,0	25,0	9,0	0,0	0,0	0,0
7	09/05/2013 08.30	18,0	9,4	-2,0	-2,0	-1,0	18,0	9,4	1,0	0,0	0,0	18,0	9,0	-1,0	0,0	2,0
8	15/05/2013 14.30	21,0	9,4	-1,0	0,0	-1,0	21,0	9,4	1,0	1,0	-2,0	21,0	9,0	-1,0	0,0	0,0
9	22/05/2013 08.30	19,0	9,4	-2,0	-3,0	0,0	19,0	9,4	1,0	0,0	-2,0	19,0	9,0	-1,0	-1,0	1,0
10	31/05/2013 15.30	18,0	9,4	-4,0	-3,0	0,0	18,0	9,4	2,0	1,0	-1,0	18,0	9,0	-2,0	-1,0	2,0
11	07/06/2013 08.30	21,0	9,4	-3,0	-2,0	0,0	21,0	9,4	3,0	0,0	-2,0	21,0	9,0	-2,0	0,0	2,0
12	13/06/2013 14.30	28,0	9,4	-2,0	-2,0	-1,0	28,0	9,4	4,0	3,0	-2,0	28,0	9,0	-2,0	3,0	0,0
13	18/06/2013 09.00	28,0	9,4	-4,0	-3,0	0,0	28,0	9,4	2,0	1,0	0,0	28,0	9,0	-3,0	0,0	2,0
14	25/06/2013 18.00	28,0	9,4	-2,0	-3,0	0,0	28,0	9,4	3,0	2,0	-3,0	28,0	9,0	-3,0	0,0	2,0
15	01/07/2013 07.30	22,0	9,4	-1,0	-2,0	-1,0	22,0	9,4	3,0	1,0	-2,0	22,0	9,0	-3,0	1,0	0,0
16	08/07/2013 17.30	25,0	9,4	-1,0	-3,0	-1,0	25,0	9,4	4,0	1,0	-2,0	25,0	9,0	-2,0	-3,0	2,0
17	13/07/2013 07.30	25,0	9,4	-3,0	-2,0	0,0	25,0	9,4	4,0	-1,0	-2,0	25,0	9,0	-3,0	-1,0	3,0
18	18/07/2013 07.30	25,0	9,4	-1,0	-3,0	-1,0	25,0	9,4	4,0	-1,0	-2,0	25,0	9,0	-1,0	-1,0	3,0
19	25/07/2013 18.00	27,0	9,4	-1,0	-1,0	-1,0	27,0	9,4	4,0	0,0	-3,0	27,0	9,0	-3,0	0,0	2,0
20	31/07/2013 09.00	27,0	9,4	0,0	-3,0	-2,0	27,0	9,4	5,0	0,0	-3,0	27,0	9,0	-3,0	0,0	3,0
21	07/08/2013 09.00	29,0	9,4	0,0	-3,0	-2,0	29,0	9,4	5,0	0,0	-3,0	29,0	9,0	-4,0	-1,0	3,0
22	13/08/2013 09.00	27,0	9,4	-1,0	-3,0	-3,0	27,0	9,4	5,0	-1,0	-3,0	27,0	9,0	-5,0	-2,0	3,0
23	21/08/2013 07.30	23,0	9,4	-1,0	-2,0	0,0	23,0	9,4	4,0	2,0	-5,0	23,0	9,0	-2,0	1,0	3,0
24	28/08/2013 10.30	25,0	9,4	0,0	-3,0	0,0	25,0	9,4	5,0	1,0	-5,0	25,0	9,0	-2,0	-2,0	4,0
25	06/09/2013 17.30	29,0	9,4	-1,0	-4,0	-1,0	29,0	9,4	8,0	0,0	-5,0	29,0	9,0	-2,0	-2,0	3,0
26	13/09/2013 07.30	18,0	9,4	-1,0	-3,0	-2,0	18,0	9,4	5,0	3,0	-2,0	18,0	9,0	-3,0	-1,0	2,0
27	21/09/2013 09.30	21,0	9,4	-1,0	-2,0	0,0	21,0	9,4	5,0	1,0	-4,0	21,0	9,0	-3,0	0,0	4,0
28	26/09/2013 09.30	18,0	9,4	-1,0	-4,0	0,0	18,0	9,4	5,0	0,0	-5,0	18,0	9,0	-3,0	-2,0	3,0
29	03/10/2013 16.30	20,0	9,4	0,0	-3,0	0,0	20,0	9,4	5,0	1,0	-4,0	20,0	9,0	-4,0	-2,0	3,0
30	10/10/2013 08.30	16,0	9,4	0,0	-3,0	-1,0	16,0	9,4	5,0	2,0	-2,0	16,0	9,0	-4,0	-2,0	3,0
31	16/10/2013 14.30	23,0	9,4	-2,0	-4,0	0,0	23,0	9,4	5,0	1,0	-3,0	23,0	9,0	-5,0	-2,0	3,0
32	24/10/2013 08.30	18,0	9,4	-3,0	-3,0	-1,0	18,0	9,4	6,0	2,0	-2,0	18,0	9,0	-5,0	-1,0	2,0



Ubicazione STAZIONE CHIAIA
Opera \ \ Supplementari \ 62-64
Tipo Strumento Mire Ottiche
Data posa in opera 28/03/2013
Data lettura di zero 28/03/2013

GRAFICO QUOTA

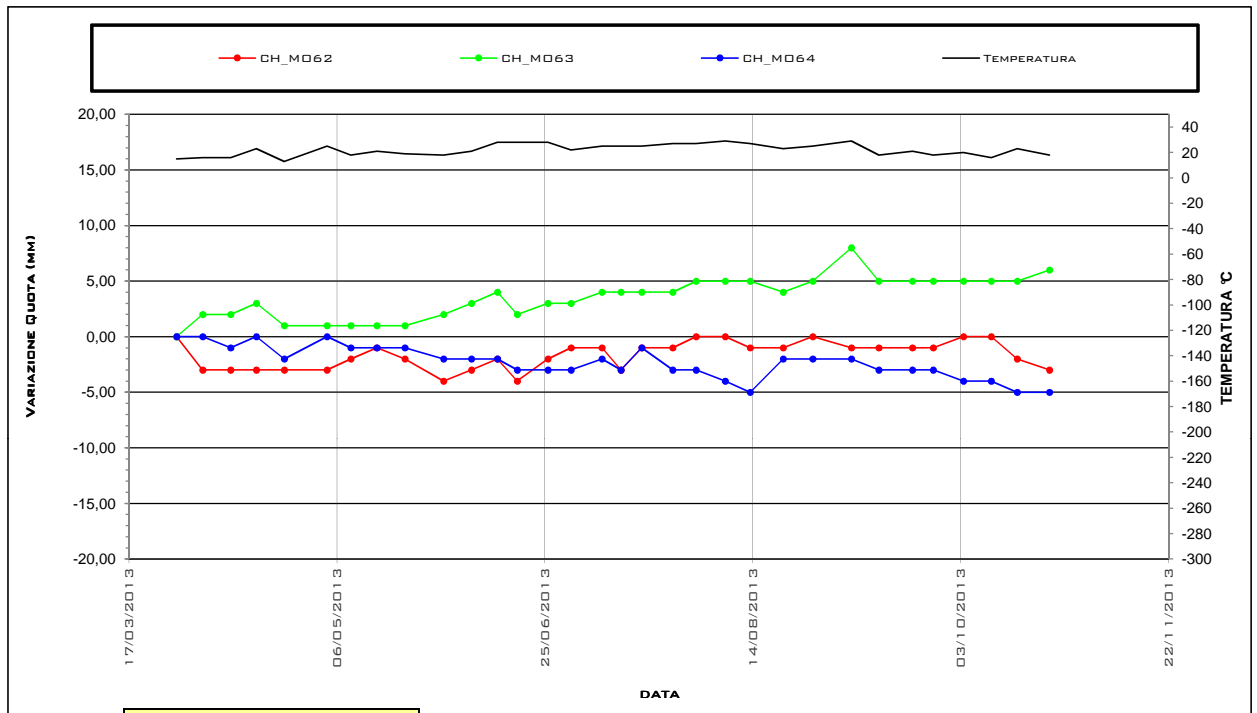
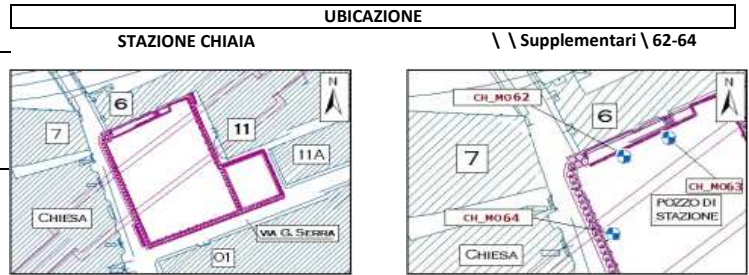
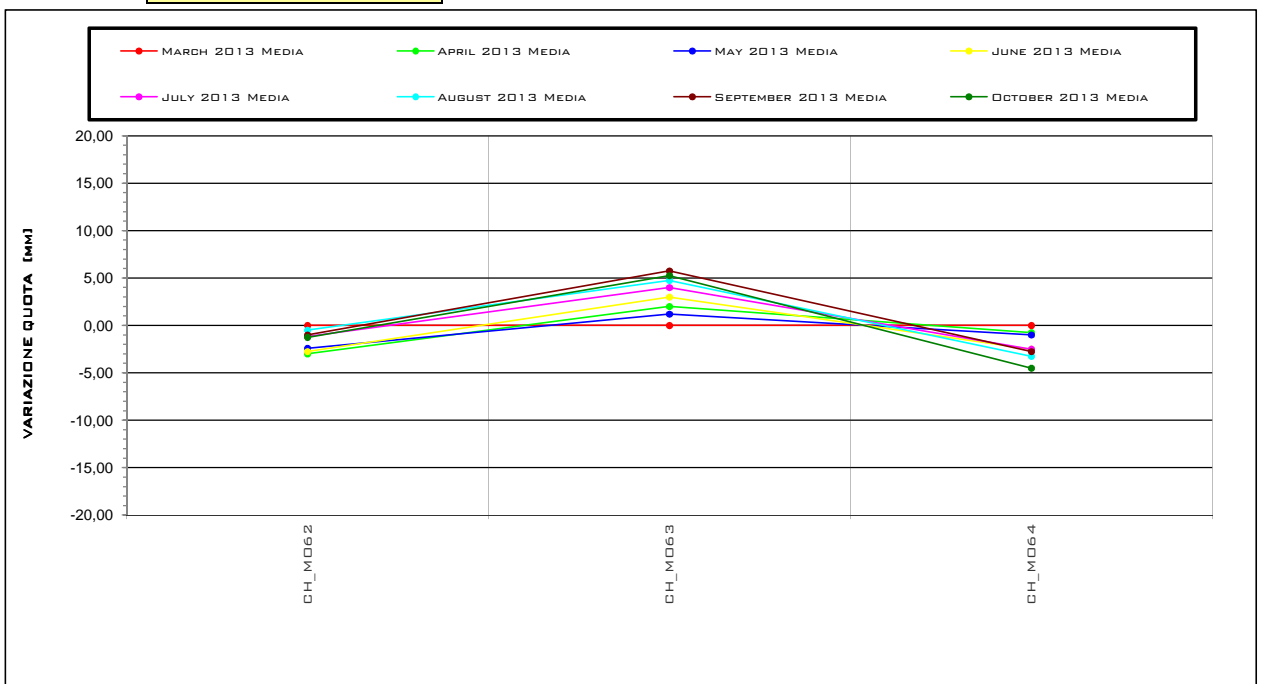


GRAFICO ISOCRONE





Ubicazione STAZIONE CHIAIA
Opera \ \ Supplementari \ 62-64
Tipo Strumento Mire Ottiche
Data posa in opera 28/03/2013
Data lettura di zero 28/03/2013

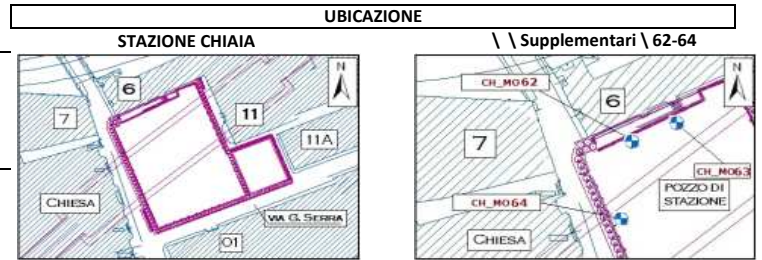


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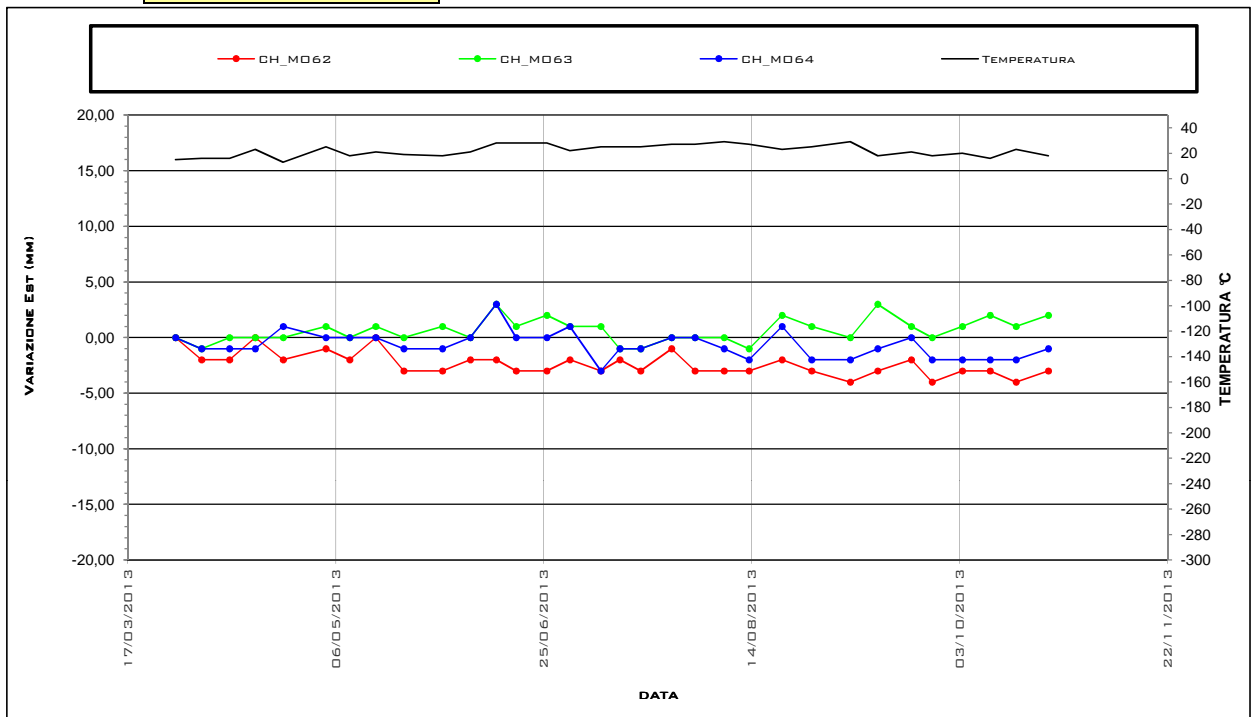
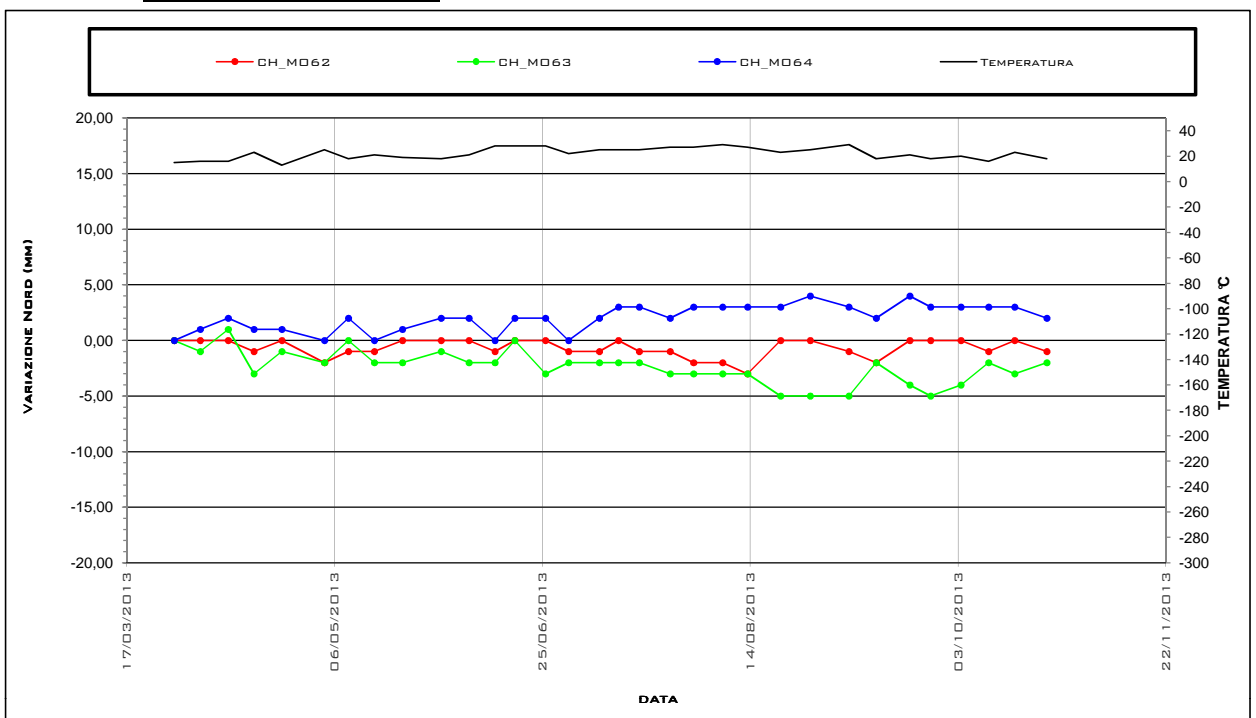


GRAFICO NORD



METROPOLITANA LINEA 6 - RESOCONTO MANUTENZIONE TREESSE ENGINEERING S.R.L.






ott-13

SAN PASQUALE

COD.STAZIONE	COD. STRUM.	TIPOLOGIA STRUM.	METRI da p.c.	7/10	8/10	9/10	10/10	11/10	Esito	TOT MESE	TOTALE
SP	SP_PZ1_S	PIEZ. CASAGRANDE	15							0	2
	SP_PZ1_P	PIEZ. CASAGRANDE	30							0	1
SP (nuova installazione)	SP_PZ1_S	PIEZ. CASAGRANDE	15							0	3
	SP_PZ1_P	PIEZ. CASAGRANDE	30							0	3
SP	SP_PZ2_S	PIEZ. CASAGRANDE	15							0	5
	SP_PZ2_P	PIEZ. CASAGRANDE	30							0	5
SP	SP_PZ3_S	PIEZ. CASAGRANDE	15							0	6
	SP_PZ3_P	PIEZ. CASAGRANDE	30							0	6
SP	SP_PZ4_S	PIEZ. CASAGRANDE	15							0	4
	SP_PZ4_P	PIEZ. CASAGRANDE	30							0	4
SP	SP_PZ5_S	PIEZ. CASAGRANDE	15							0	4
	SP_PZ5_P	PIEZ. CASAGRANDE	30							0	4
SP	SP_PZ6_S	PIEZ. CASAGRANDE	15							0	3
	SP_PZ6_P	PIEZ. CASAGRANDE	30							0	3
SP	SP_PZ7_S	PIEZ. CASAGRANDE	15							0	2
	SP_PZ7_P	PIEZ. CASAGRANDE	30							0	2
SP	SP_PZ8_S	PIEZ. CASAGRANDE	40							0	2
	SP_PZ8_P	PIEZ. CASAGRANDE	43							0	2
SP	SP_PZ9_S	PIEZ. CASAGRANDE	15							0	2
	SP_PZ9_P	PIEZ. CASAGRANDE	30							0	2
SP	SP_PZ10_S	PIEZ. CASAGRANDE	40							0	2
	SP_PZ10_P	PIEZ. CASAGRANDE	43							0	2
SP	SP_PZ11_S	PIEZ. CASAGRANDE	40							0	2
	SP_PZ11_P	PIEZ. CASAGRANDE	43							0	2
SP	SP_PZ12_S	PIEZ. CASAGRANDE	15							0	2
	SP_PZ12_P	PIEZ. CASAGRANDE	30							0	2
SP	SP_PZ13_S	PIEZ. CASAGRANDE	15							0	2
	SP_PZ13_P	PIEZ. CASAGRANDE	30							0	2
SP	SP_PZ14_S	PIEZ. CASAGRANDE	40							0	2
	SP_PZ14_P	PIEZ. CASAGRANDE	43							0	2
SP	SP_PZ15_S	PIEZ. CASAGRANDE	22,5							0	1
	SP_PZ15_P	PIEZ. CASAGRANDE	45,5							0	1
SP	SP_PZ16_S	PIEZ. CASAGRANDE	22					1	P	1	2
	SP_PZ16_P	PIEZ. CASAGRANDE	39,5					1	P	1	2
SP	SP_IN1	INCLINOMETRO	20/54							0	2
SP	SP_IN1_1	INCLINOMETRO	44/44							0	4
SP	SP_EI2/ES2	ESTENSO-INCLINOMETRO	54/54							0	4
SP	SP_IN3	INCLINOMETRO	45/45							0	5
SP	SP_IN4	INCLINOMETRO	0/54							0	0
SP	SP_IN4_1	INCLINOMETRO	50/50					1	P	1	4
SP	SP_EI5/ES5	ESTENSO-INCLINOMETRO	54/54							0	2
SP	SP_IN6	INCLINOMETRO	35/54							0	2
SP	SP_IN6_1	INCLINOMETRO	48/48	1					P	1	4
SP	SP_IN_P3	INCLINOMETRO	0/43							0	0
SP	SP_IN_P3_1	INCLINOMETRO	16/33							0	5
SP	SP_IN_P5	INCLINOMETRO	48/48							0	6
SP	SP_IN_P12	INCLINOMETRO	37/45							0	1
SP	SP_IN_P12_1	INCLINOMETRO	43/43							0	2
SP	SP_IN_P13	INCLINOMETRO	49/49							0	6
SP	SP_IN_P25	INCLINOMETRO	0/51							0	0
SP	SP_IN_P26	INCLINOMETRO	45/45							0	9
SP	SP_IN_P61	INCLINOMETRO	0/51							0	0
SP	SP_IN_P64	INCLINOMETRO	28/46							0	6
SP	SP_IN_P74	INCLINOMETRO	42/42		1				P	1	6
SP	SP_IN_P75	INCLINOMETRO	47/47		1				P	1	6
SP	SP_IN_P83	INCLINOMETRO	47/47		1				P	1	6
SP	SP_IN_P84	INCLINOMETRO	35/51							0	1
SP	SP_IN_P84_1	INCLINOMETRO	47/47		1				P	1	5

LEGENDA

	IN ROSSO STRUMENTO FUORI USO (per il quale è inutile programmare attività di manutenzione e monitoraggio)
	IN GIALLO STRUMENTO A FUNZIONALITA' RIDOTTA
	IN VERDE STRUMENTO SOSTITUITO
P	ESITO POSITIVO
N	ESITO NEGATIVO
Video	VIDEOISPEZIONE ESEGUITA

NOTE

Gli strumenti sottoposti a manutenzione nel periodo indicato, dopo il trattamento di spurgo, lavaggio a pressione, verifica dell'accessibilità tubi di misura, hanno migliorato la loro funzionalità. Superando le prove con esito positivo.

GL_MA_PZ1

Per i piezometri tipo Casagrande sotto riportati, si evince la scarsa comunicazione fra i tubi di misura, che indica un ridotto ricircolo dell'acqua all'interno della cella. Dalla risposta strumentale ottenuta durante le fasi di manutenzione, si suppone un funzionamento assimilabile più a piezometri tubo aperto che non a celle tipo Casagrande, ciò potrebbe comportare tempi di risposta più lunghi. Tuttavia questi strumenti continuano a fornire misure correlabili con gli altri strumenti funzionanti, continueranno ad essere regolarmente inseriti nel programma di monitoraggio e di manutenzione.

Cantiere San Pasquale

SP_PZ1_P

SP_PZ1_S

Cantiere Arco Mirelli

AM_PZ6_S

AM_PZ5_S

Tratta Mergellina-Arco Mirelli

GL_MA_PZ4