







# LINEA 6 – METROPOLITANA DI NAPOLI

				(PRIMA EMISSIONE) – NOVEMBRE 2014	NOV 14						
Albinati	De Risi	Manferlotti	Di Luccio								
REDATTO	CONTROLLATO	APPROVATO	AUTORIZZATO	DESCRIZIONE REVISIONE DOCUMENTO	DATA	REV					
 <b>Ansaldo STS</b> A Finmeccanica Company CONCESSIONARIA				 <b>COMUNE DI NAPOLI</b> 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	<b>TITOLO DOCUMENTO:</b> LINEA 6 METROPOLITANA DI NAPOLI PROGETTO ESECUTIVO <b>OPERE CIVILI – MONITORAGGIO GEOTECNICO GEOREFERENZIATO</b> <b>REPORT DELLE MISURE (INTERNO) – STAZIONE CHIAIA</b>										
	EMITTENTE  <b>METROPOLITANA DI NAPOLI S.p.A.</b> 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 139		

 <p><b>Ansaldo STS</b> A Finmeccanica Company</p>	<p><b>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</b></p> <p><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C I 37 Data: 28/11/14 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;
- Inclinatori ed estenso-inclinatori, realizzati in prossimità delle paratie del pozzo di stazione;
- Inclinatori, 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°74 Mire Ottiche

Primo Ordine

CH\_MO1-16

Secondo Ordine

CH\_MO17-32

Terzo Ordine


CH\_MO33-40

Quarto Ordine

CH\_MO36-44

Supplementari

CH\_MO45-74

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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.

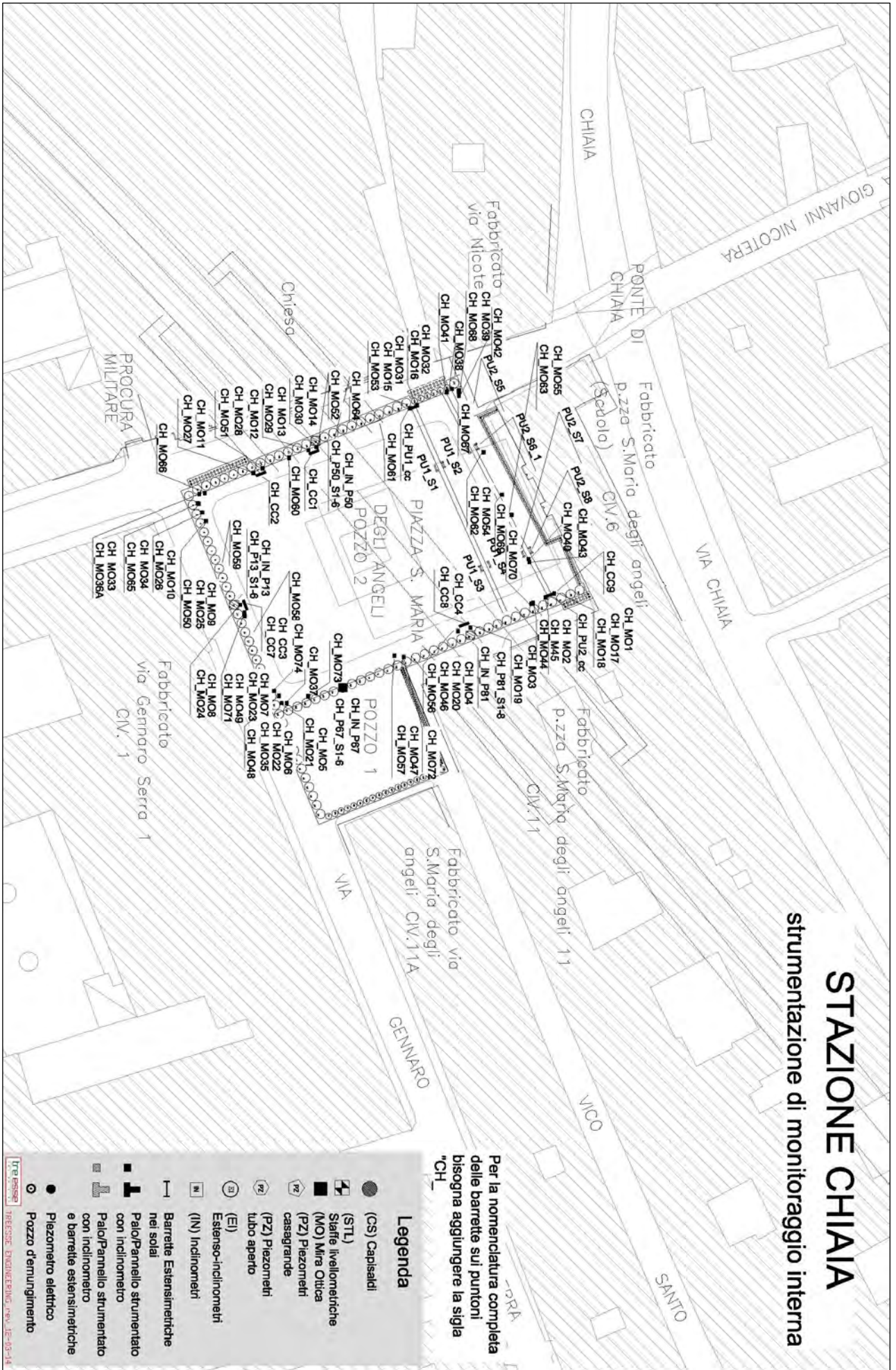



Figura 4.1.: Planimetria pozzo stazione, raffigurante la disposizione della strumentazione di monitoraggio geotecnico interno installata.



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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).

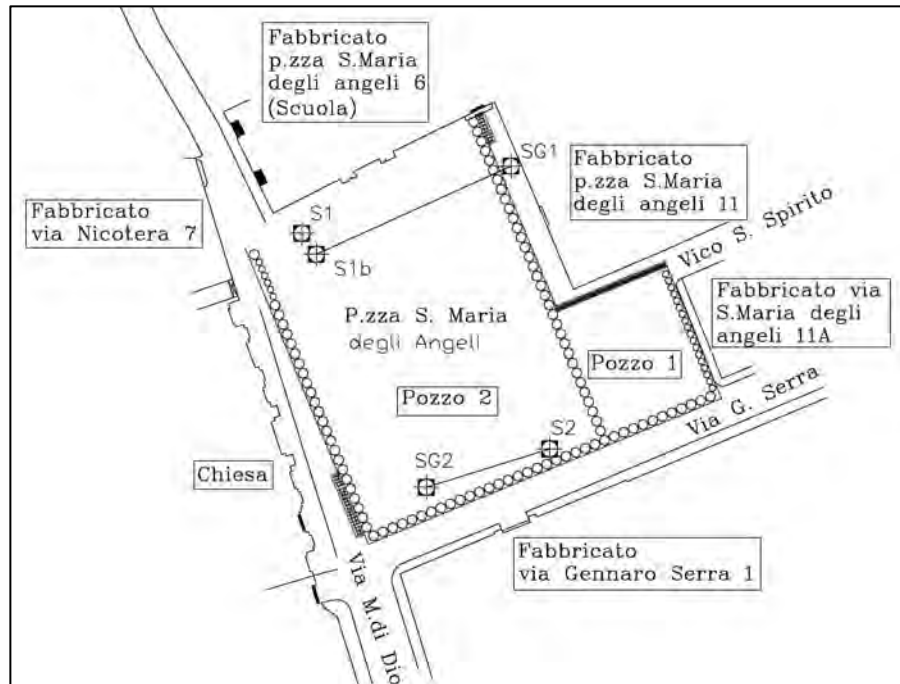


Figura 5.1.: Planimetria pozzo stazione, raffigurante la collocazione di alcuni sondaggi effettuati per la campagna propedeutica alla stesura del Progetto Definitivo (2005).

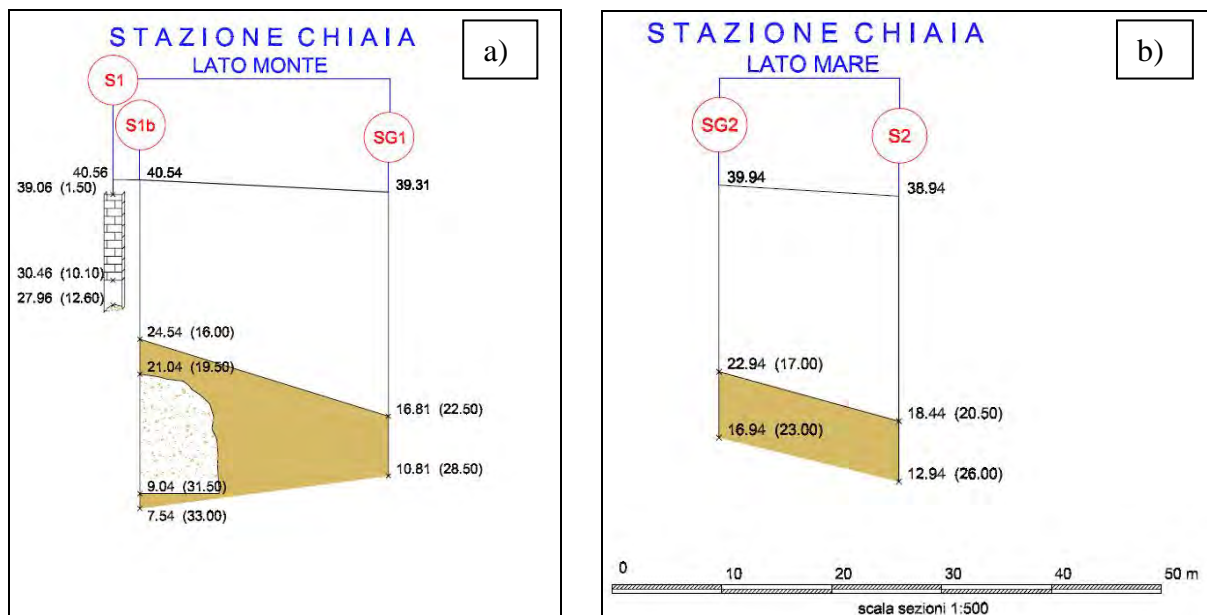



Figura 5.2a e5.2b.: Andamento del tetto del Tufo (lato monte e lato mare) - Stralcio da Elaborato grafico Progetto Definitivo Stazione Chiaia allegato alla Relazione Geologica (cod. doc.: LM67F2C0159 – ANNO 2005).

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## **1. 6. FASI LAVORATIVE**

Nel presente capitolo vengono esposte 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 dei lavori di armatura e getto del solettone di fondo e delle strutture interne. 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.

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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\_IN4, CH\_PZ3 per la sezione B-B'

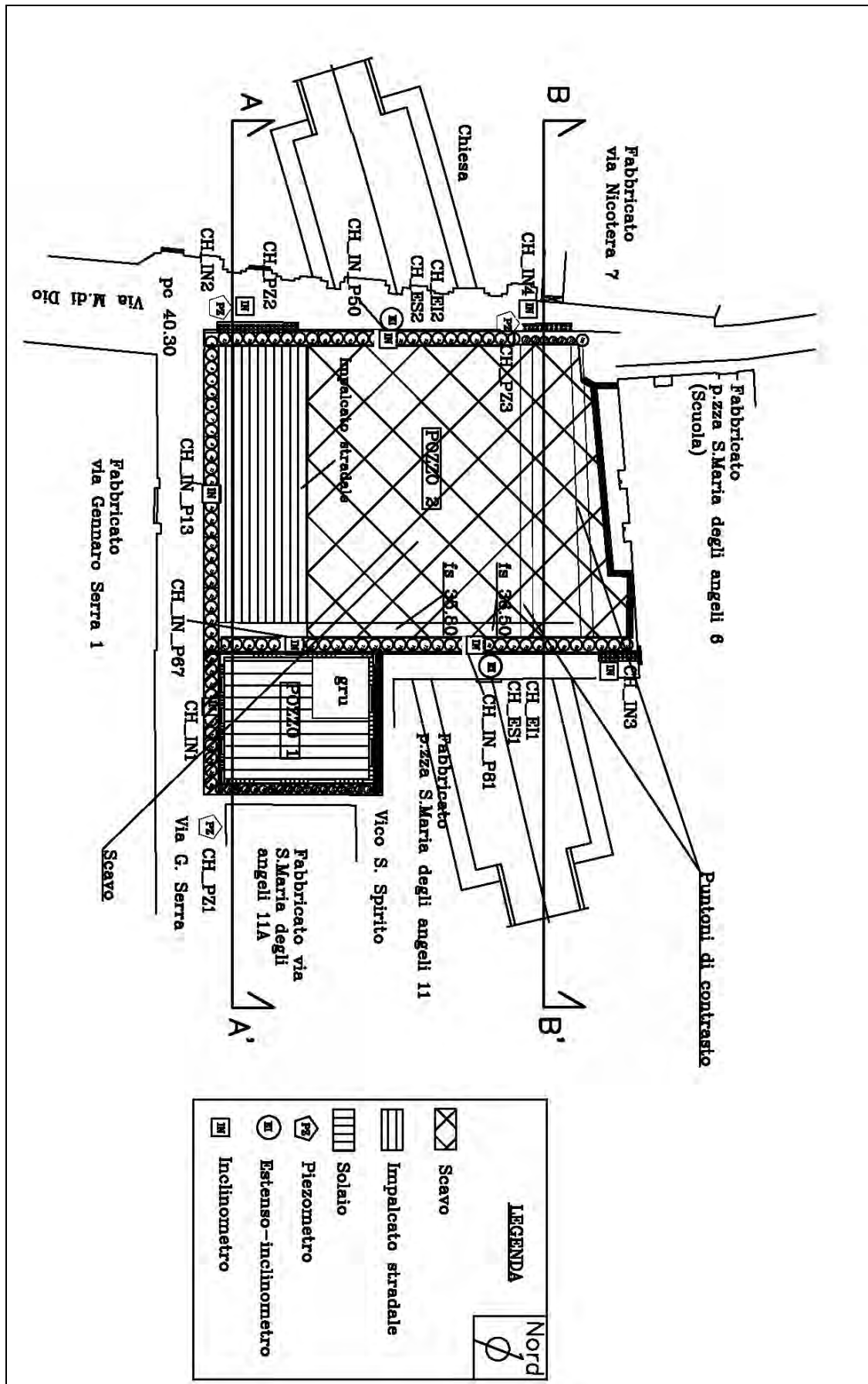


Figura 6.1.: Planimetria pozzo stazione, raffigurante la suddivisione in aree di lavoro.

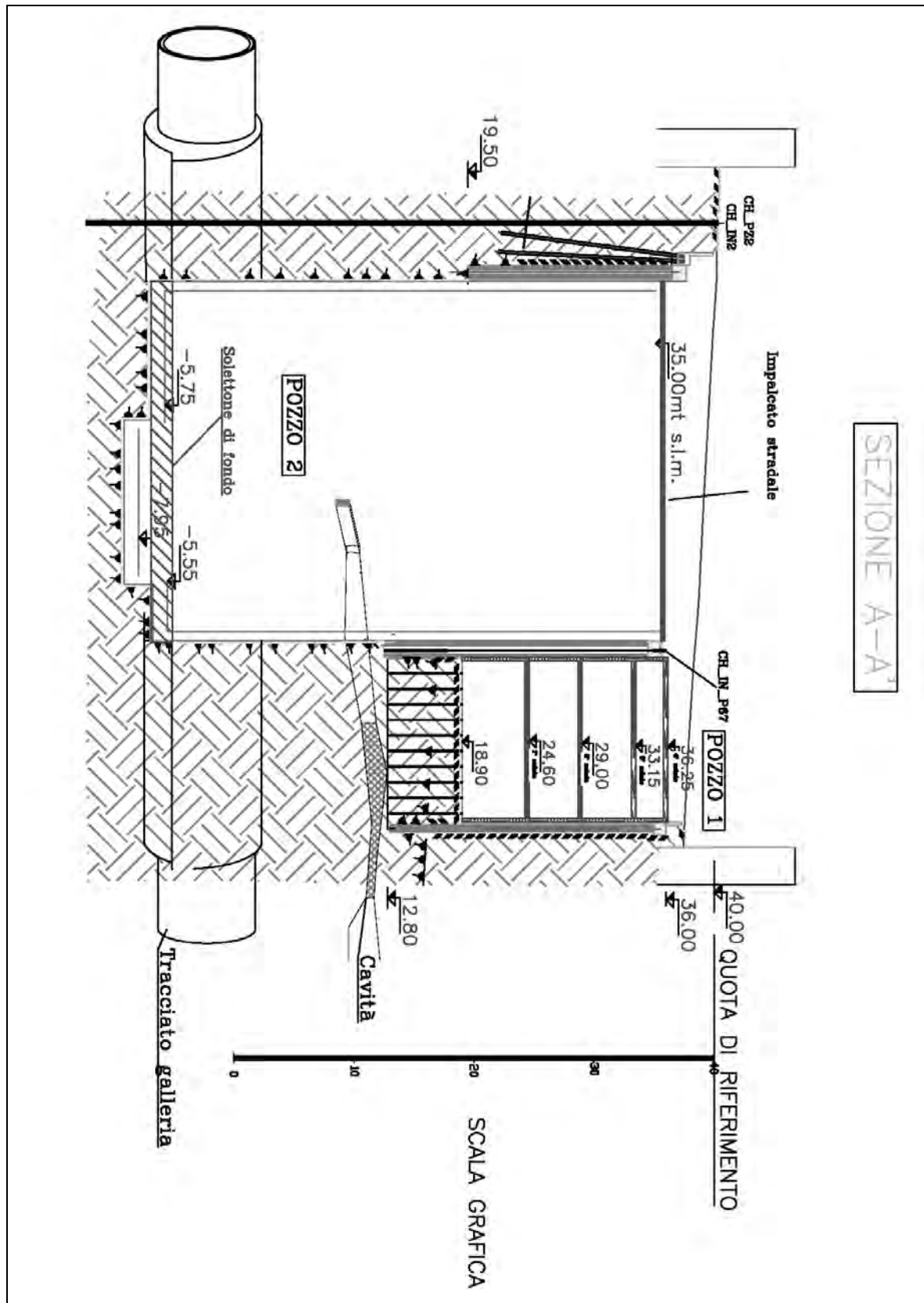


Figura 6.2.: Sezione A-A' pozzo stazione, raffigurante la suddivisione in aree di lavoro.

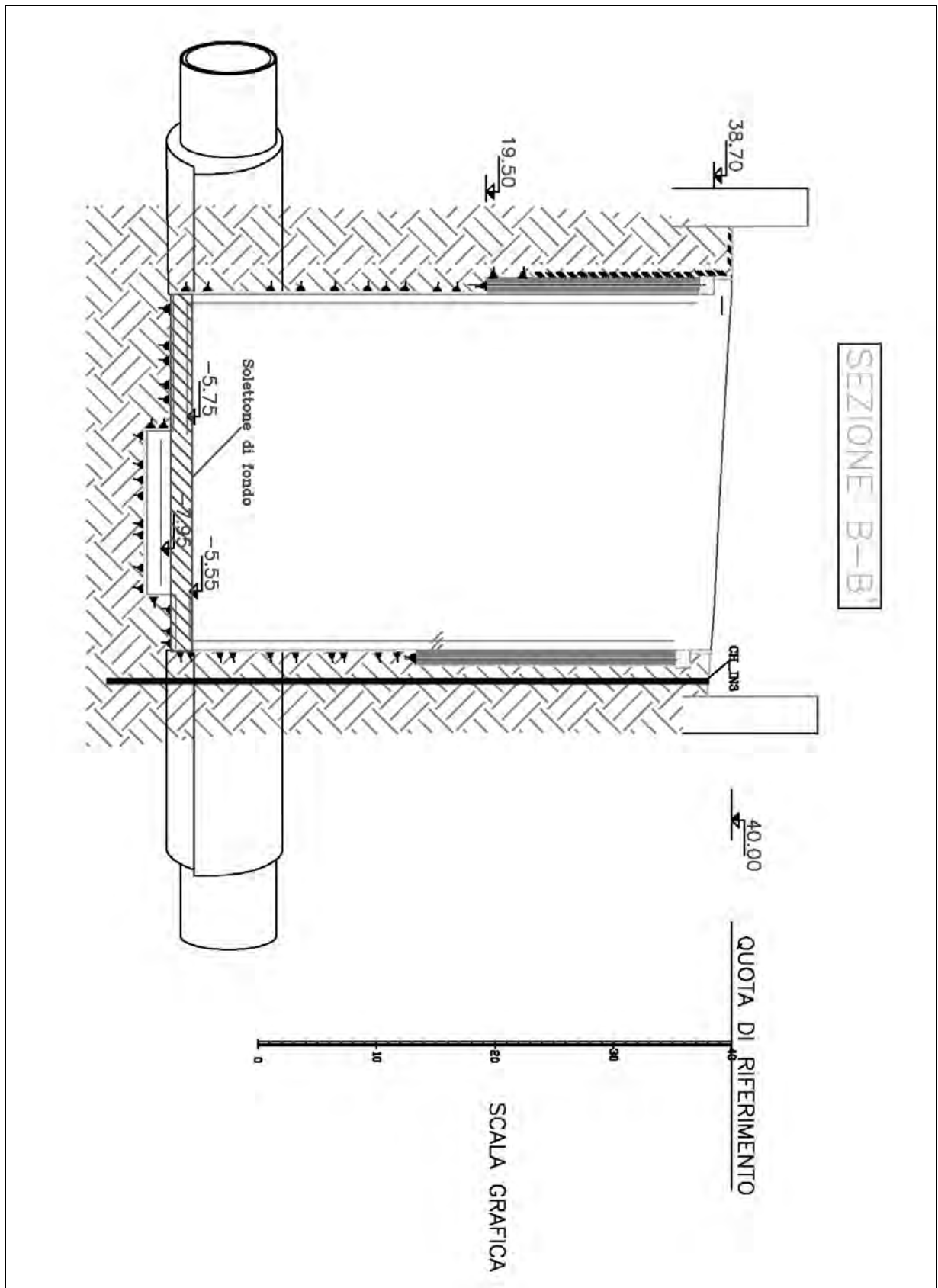



Figura 6.3.: Sezione B-B' pozzo stazione, raffigurante la suddivisione in aree di lavoro.

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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.

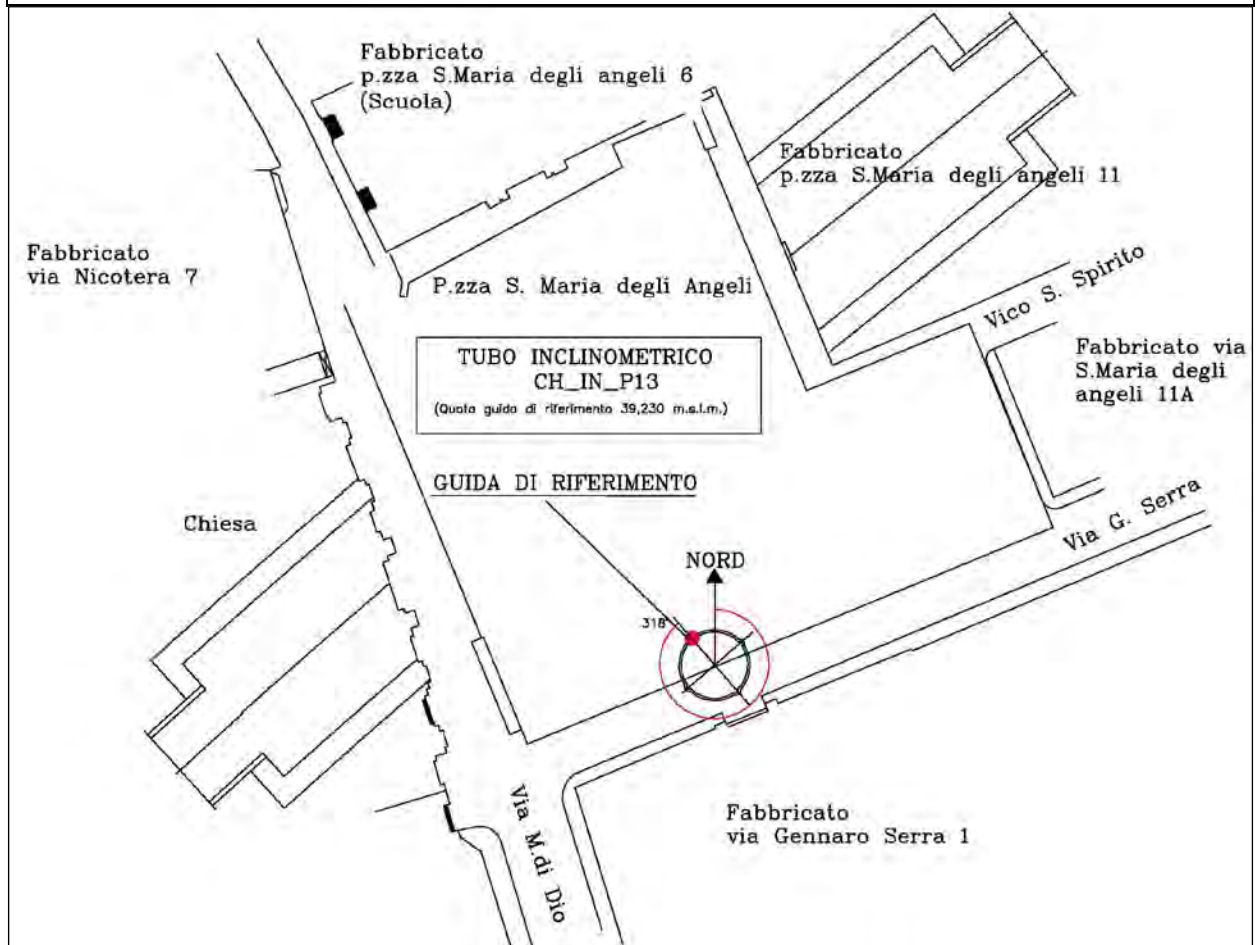
Tabella riepilogativa per gli inclinometri installati in cantiere

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 **97** in data **19/11/2014 09.57**

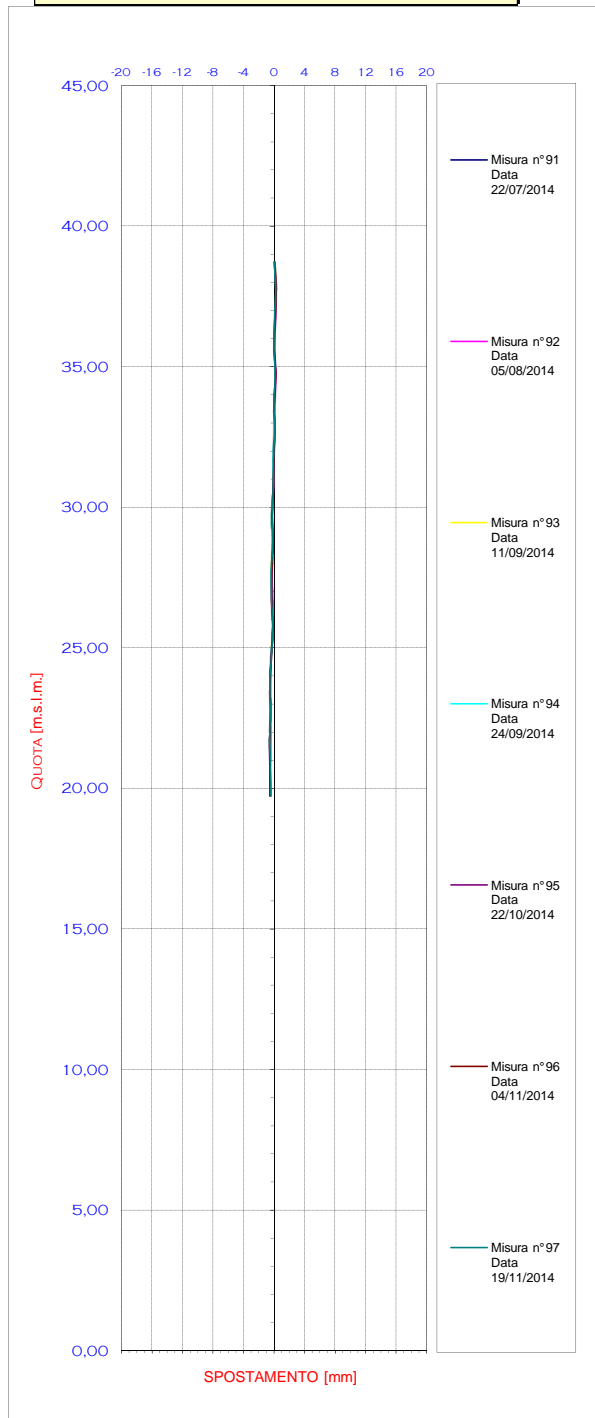
SPOSTAMENTI LOCALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
38,7	0,048	0,193	0,199	13,998
37,7	0,226	0,053	0,232	76,822
36,7	0,084	0,002	0,084	88,405
35,7	-0,006	0,154	0,154	357,589
34,7	0,164	0,246	0,295	33,620
33,7	-0,002	0,030	0,030	357,080
32,7	0,122	-0,026	0,124	102,034
31,7	-0,079	-0,303	0,313	194,623
30,7	-0,096	-0,140	0,170	214,447
29,7	-0,223	0,097	0,243	293,535
28,7	-0,145	0,234	0,275	328,127
27,7	-0,376	0,063	0,382	279,575
26,7	-0,323	0,322	0,456	314,963
25,7	-0,138	0,311	0,340	335,992
24,7	-0,325	0,489	0,587	326,397
23,7	-0,569	0,479	0,744	310,111
22,7	-0,480	0,467	0,669	314,186
21,7	-0,574	0,450	0,730	308,118
20,7	-0,447	0,575	0,728	322,092
19,7	-0,413	0,621	0,745	326,375

SPOSTAMENTI INTEGRALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
38,7	-3,553	4,317	5,591	320,538
37,7	-3,602	4,123	5,475	318,865
36,7	-3,828	4,071	5,587	316,762
35,7	-3,912	4,068	5,644	316,122
34,7	-3,905	3,914	5,529	315,065
33,7	-4,069	3,668	5,479	312,035
32,7	-4,068	3,639	5,457	311,814
31,7	-4,189	3,664	5,566	311,178
30,7	-4,110	3,967	5,713	313,987
29,7	-4,014	4,108	5,743	315,663
28,7	-3,791	4,011	5,519	316,614
27,7	-3,646	3,777	5,249	316,014
26,7	-3,269	3,714	4,948	318,640
25,7	-2,946	3,391	4,492	319,013
24,7	-2,808	3,080	4,168	317,648
23,7	-2,483	2,591	3,589	316,222
22,7	-1,914	2,112	2,851	317,814
21,7	-1,434	1,646	2,183	318,926
20,7	-0,860	1,195	1,473	324,258
19,7	-0,413	0,621	0,745	326,375

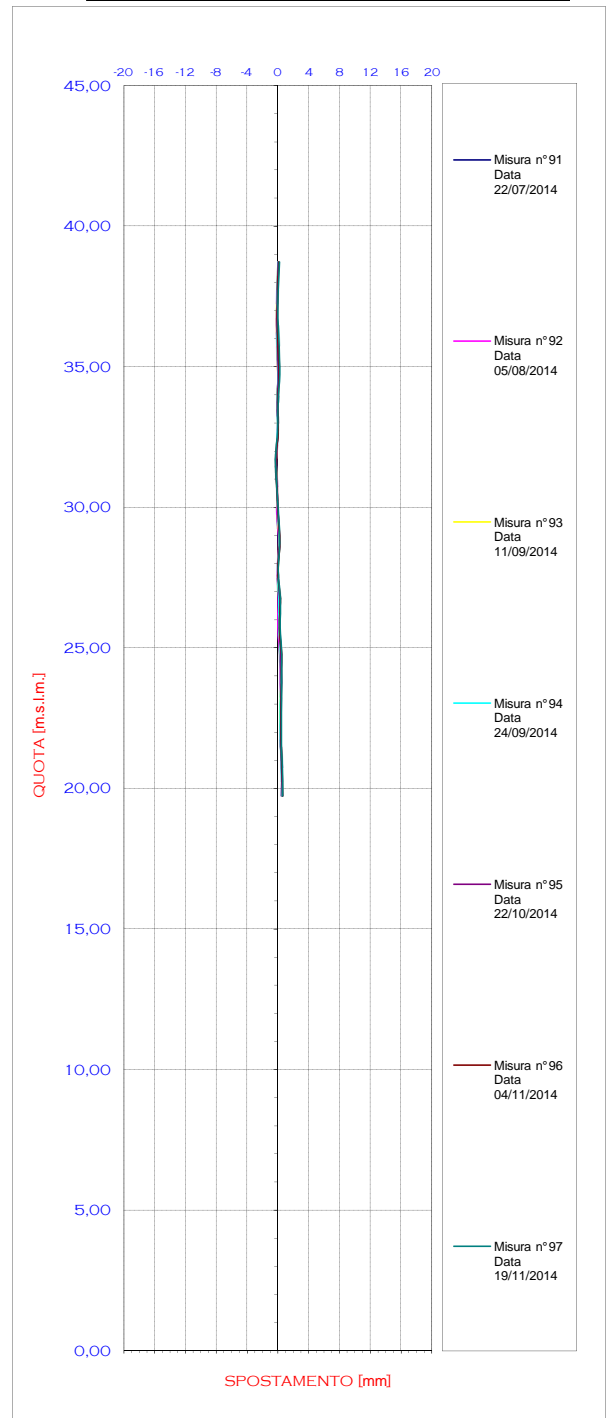
Ubicazione **STAZIONE CHIAIA**  
 Tipo Strumento **Tubo inclinometrico**  
 Nome tubo **CH\_IN\_P13**  
 Azimut di riferimento **318**  
 Quota guida rif. (m.s.l.m.) **39,23**  
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 Data posa in opera **06/12/2010**

Ultima Misura **97** in data **19/11/2014 09.57**

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

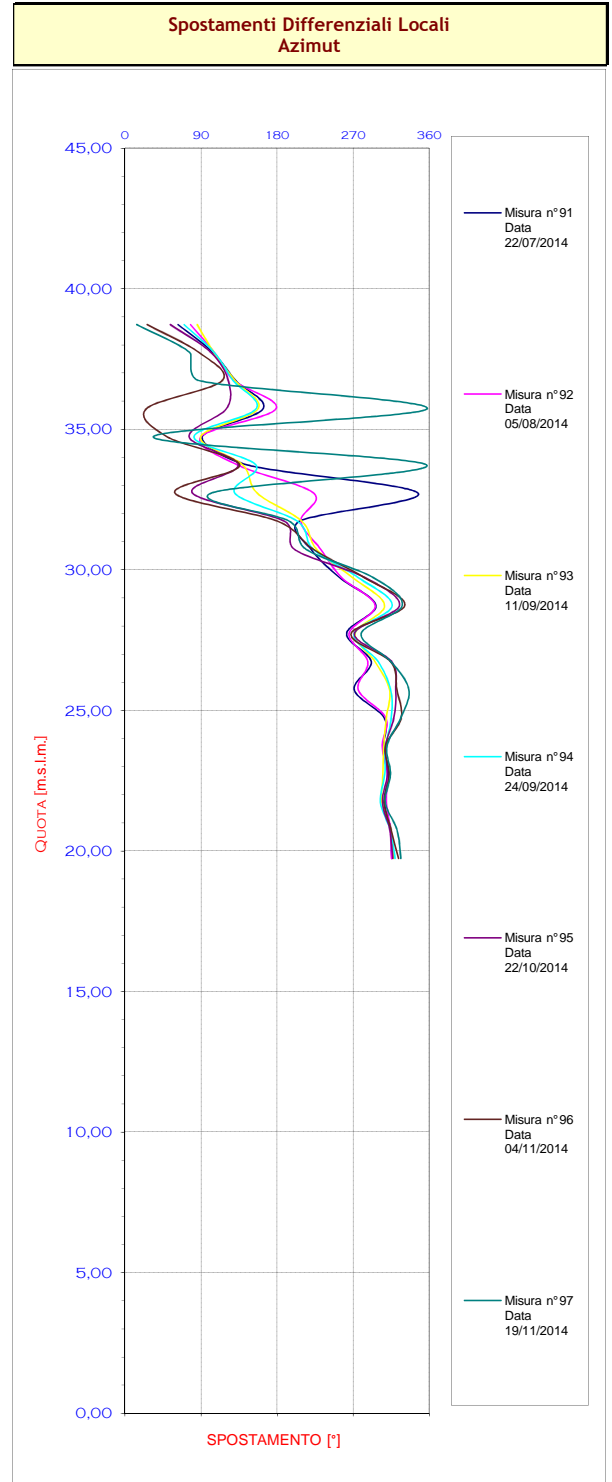
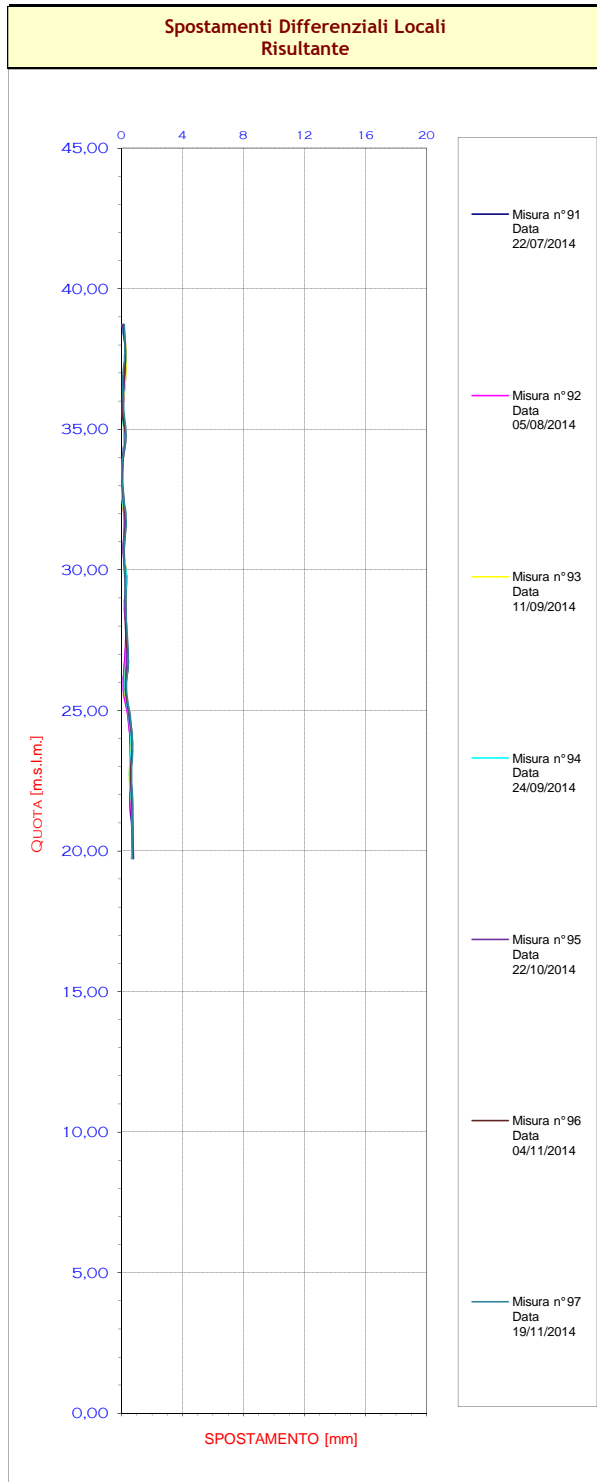


**Spostamenti Differenziali Locali  
SUD - (valori negativi) / NORD + (valori positivi)**



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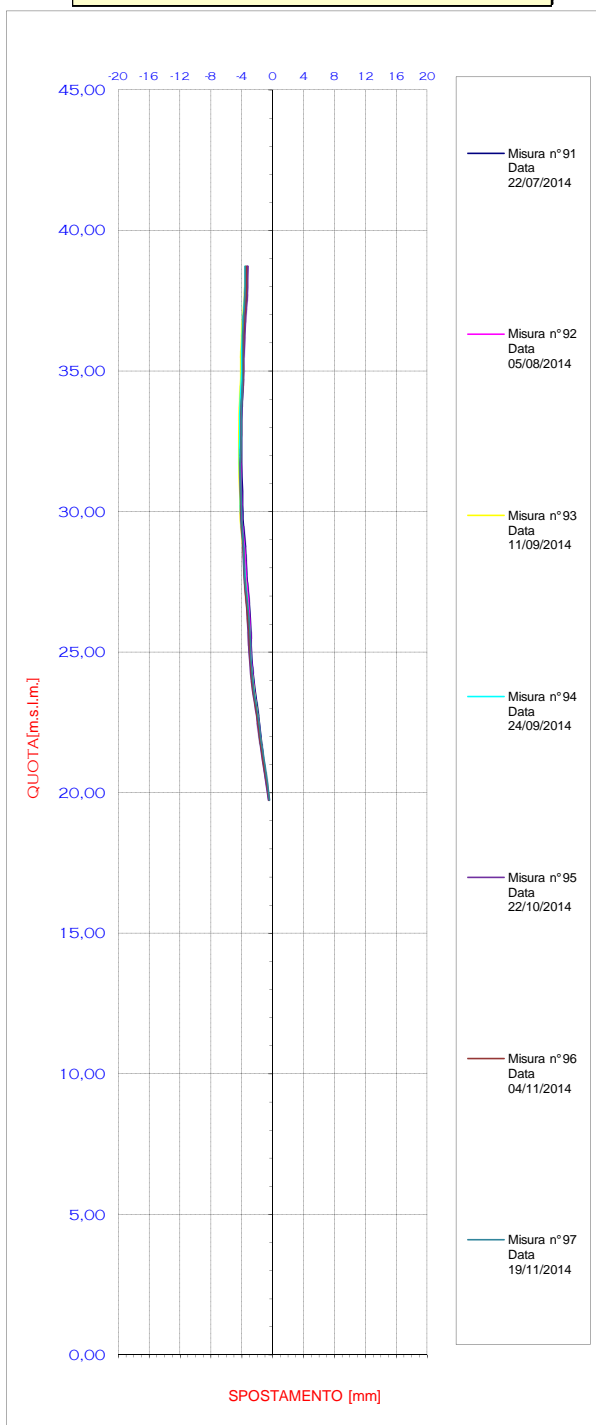
Ultima Misura **97** in data **19/11/2014 09.57**



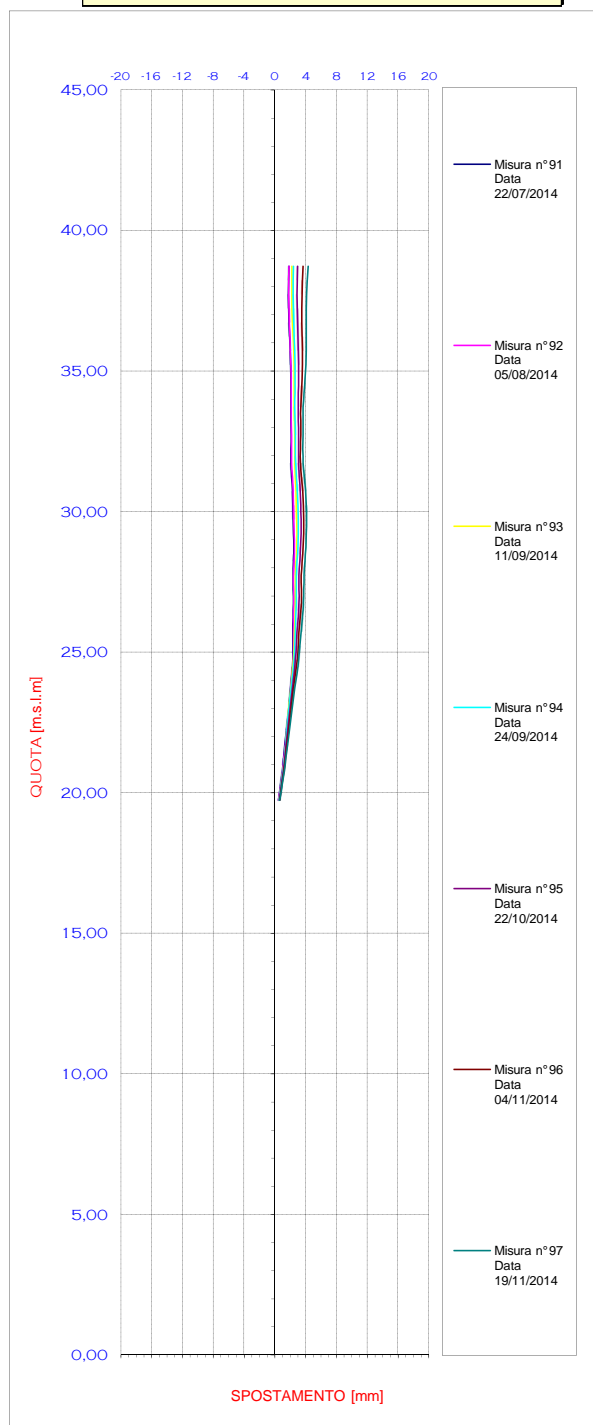
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Spostamenti Differenziali Integrali  
OVEST- (valori negativi) / EST + (valori positivi)



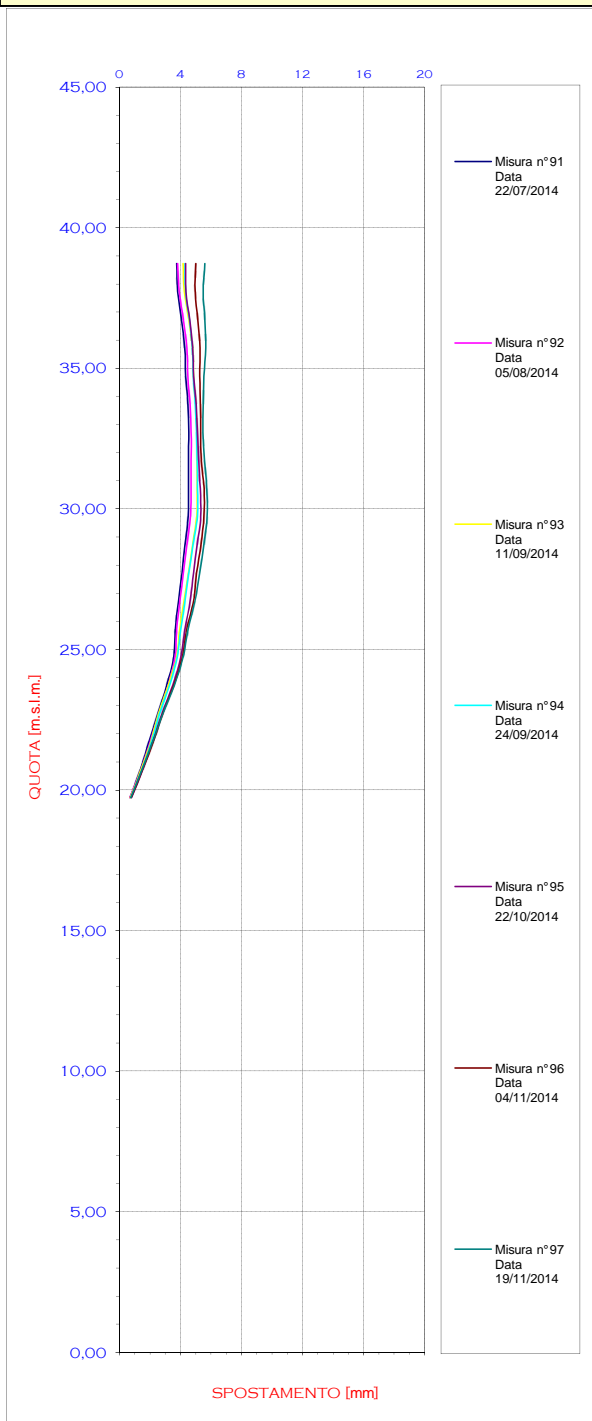
Spostamenti Differenziali Integrali  
SUD - (valori negativi) / NORD + (valori positivi)



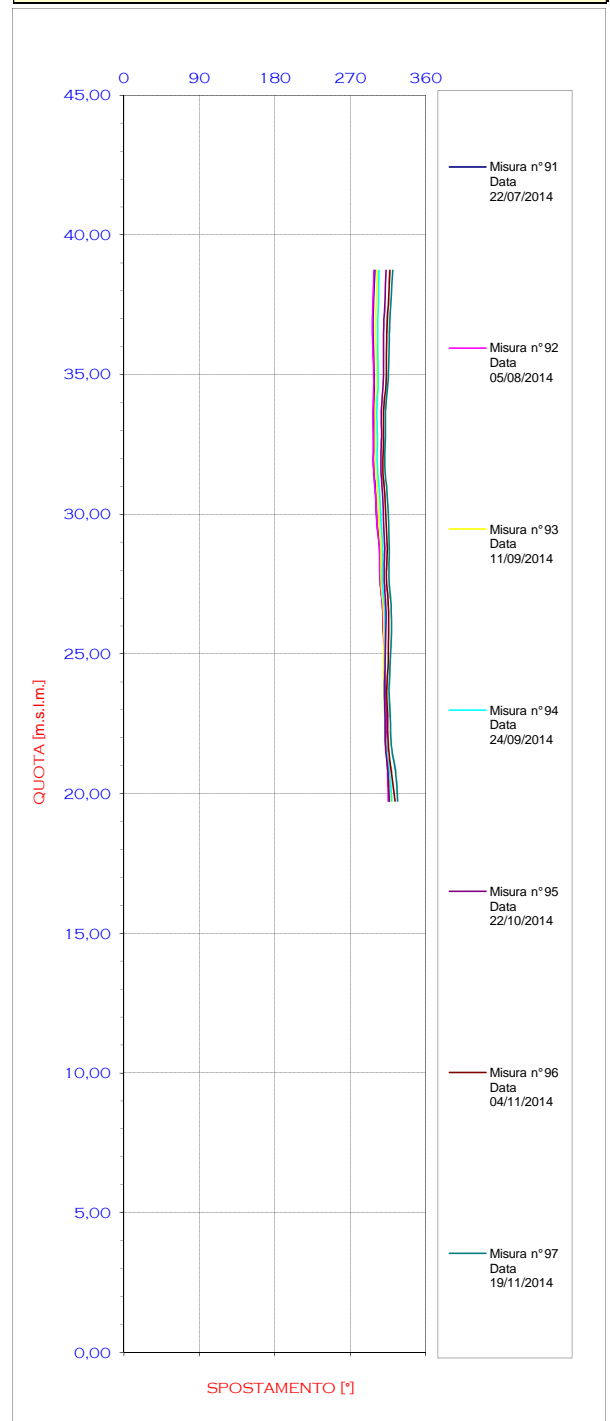
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Nome tubo **CH\_IN\_P13**  
Azimut di riferimento **318**  
Quota guida rif. (m.s.l.m.) **39,23**  
Data lettura di zero **22/12/2010**  
Data posa in opera **06/12/2010**

Ultima Misura **97** in data **19/11/2014 09.57**

Spostamenti Differenziali Integrali Risultante



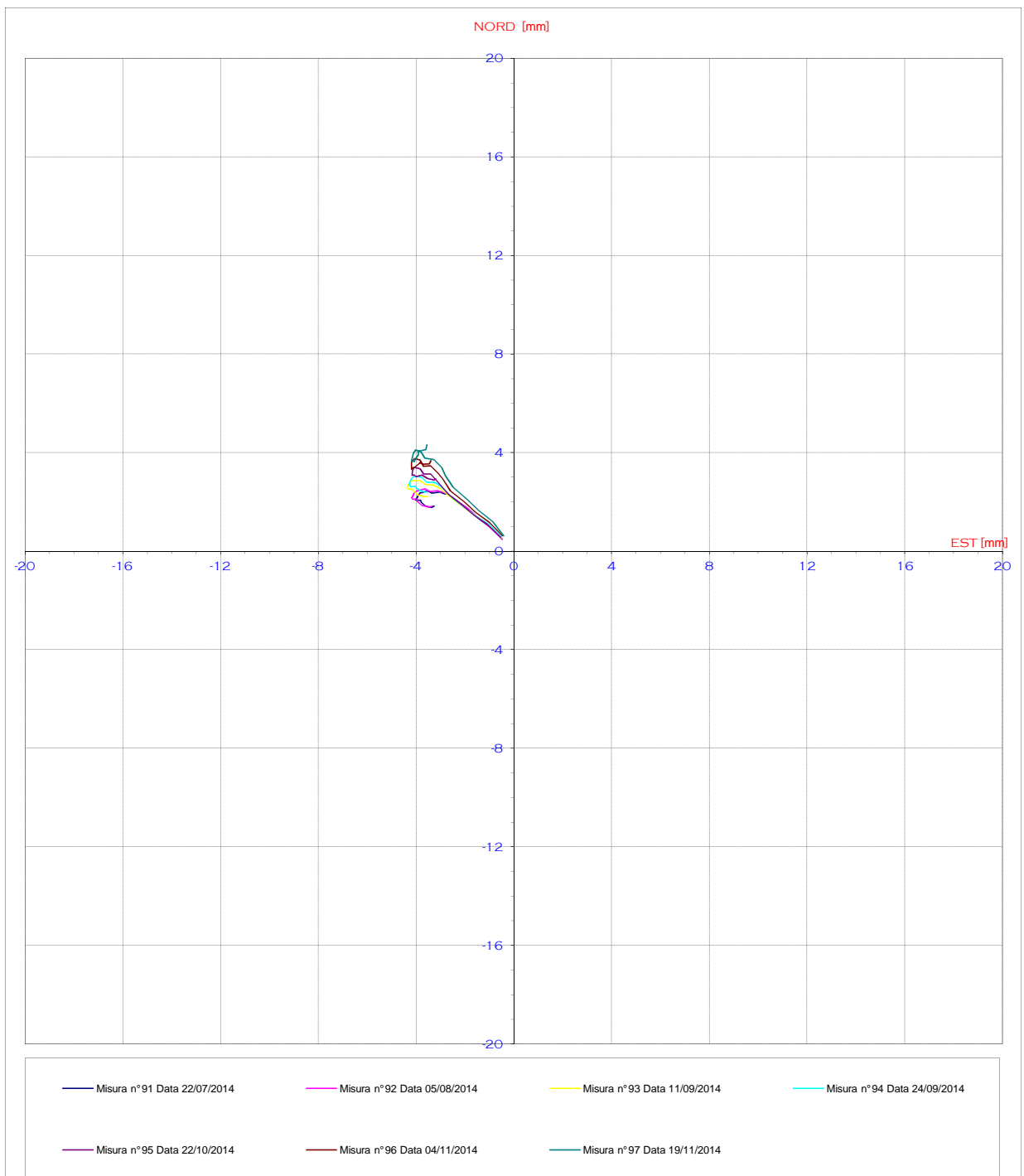
Spostamenti Differenziali Integrali Azimut



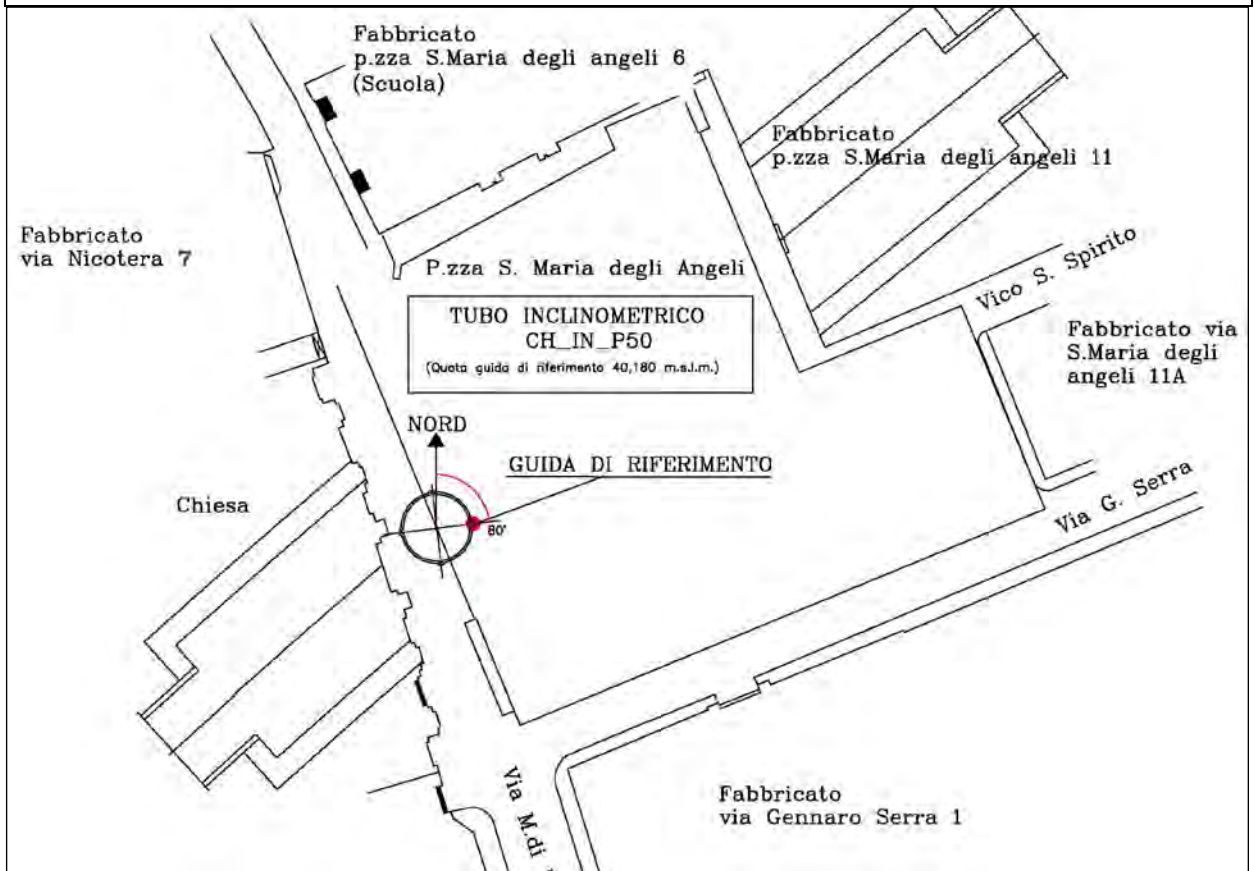
Ubicazione **STAZIONE CHIAIA**  
 Tipo Strumento **Tubo inclinometrico**  
 Nome tubo **CH\_IN\_P13**  
 Azimut di riferimento **318**  
 Quota guida rif. (m.s.l.m.) **39,23**  
 Data lettura di zero **22/12/2010**  
 Data posa in opera **06/12/2010**

Ultima Misura **97** in data **19/11/2014 09.57**

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**






MISURE INCLINOMETRICHE  
ELABORAZIONE DA FONDO FORO  
-TABULATI-

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 **102** in data **19/11/2014 10.07**

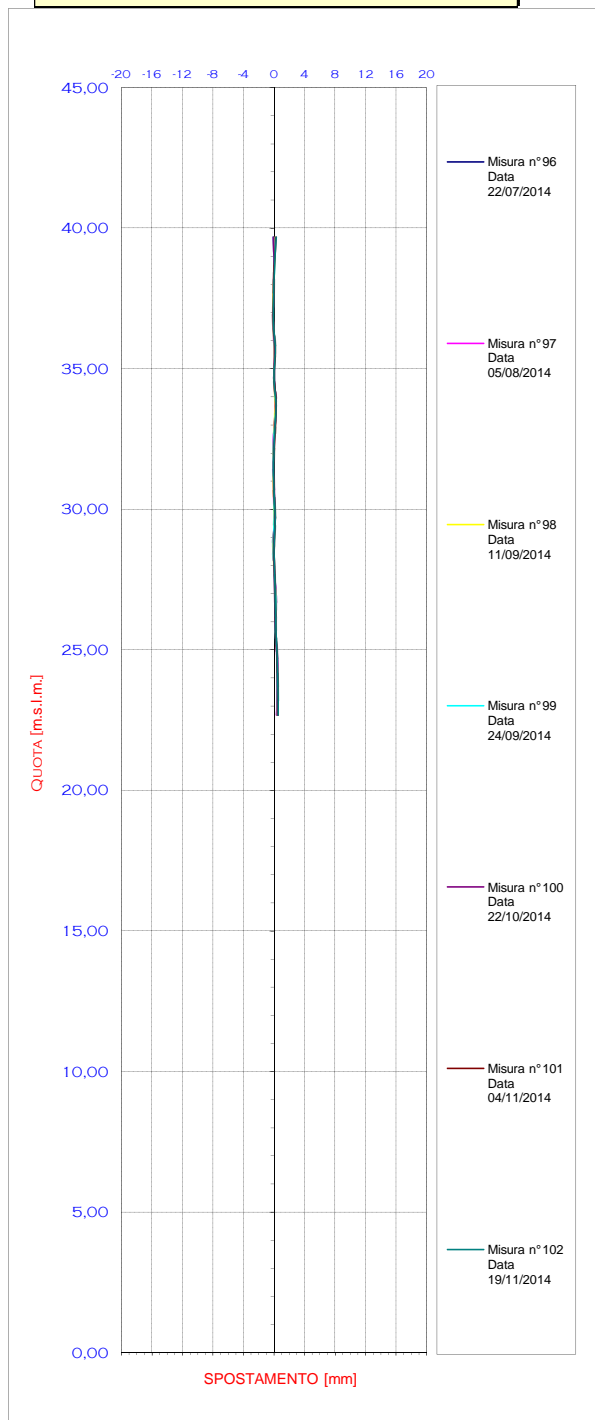
SPOSTAMENTI LOCALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
39,7	0,295	-0,292	0,415	134,790
38,7	0,078	-0,484	0,490	170,888
37,7	-0,050	-0,193	0,199	194,585
36,7	-0,082	-0,198	0,214	202,549
35,7	0,176	-0,222	0,283	141,684
34,7	0,006	-0,058	0,058	174,010
33,7	0,277	-0,104	0,296	110,625
32,7	0,100	0,057	0,115	60,445
31,7	-0,029	-0,130	0,133	192,667
30,7	0,026	-0,050	0,056	152,816
29,7	0,165	-0,017	0,166	95,941
28,7	0,023	-0,227	0,228	174,300
27,7	0,084	0,108	0,137	38,076
26,7	0,183	-0,130	0,224	125,383
25,7	0,255	0,046	0,259	79,812
24,7	0,424	-0,152	0,450	109,694
23,7	0,520	-0,139	0,538	104,936
22,7	0,559	-0,250	0,612	114,068

SPOSTAMENTI INTEGRALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
39,7	3,007	-2,435	3,870	128,998
38,7	2,713	-2,143	3,457	128,304
37,7	2,635	-1,659	3,114	122,194
36,7	2,685	-1,466	3,060	118,637
35,7	2,767	-1,268	3,044	114,621
34,7	2,592	-1,046	2,795	111,977
33,7	2,586	-0,988	2,768	110,916
32,7	2,308	-0,884	2,472	110,951
31,7	2,209	-0,940	2,400	113,064
30,7	2,238	-0,811	2,380	109,911
29,7	2,212	-0,761	2,339	108,974
28,7	2,047	-0,743	2,178	109,959
27,7	2,024	-0,516	2,089	104,308
26,7	1,940	-0,624	2,038	107,833
25,7	1,757	-0,494	1,825	105,709
24,7	1,502	-0,540	1,596	109,767
23,7	1,079	-0,388	1,147	109,795
22,7	0,559	-0,250	0,612	114,068

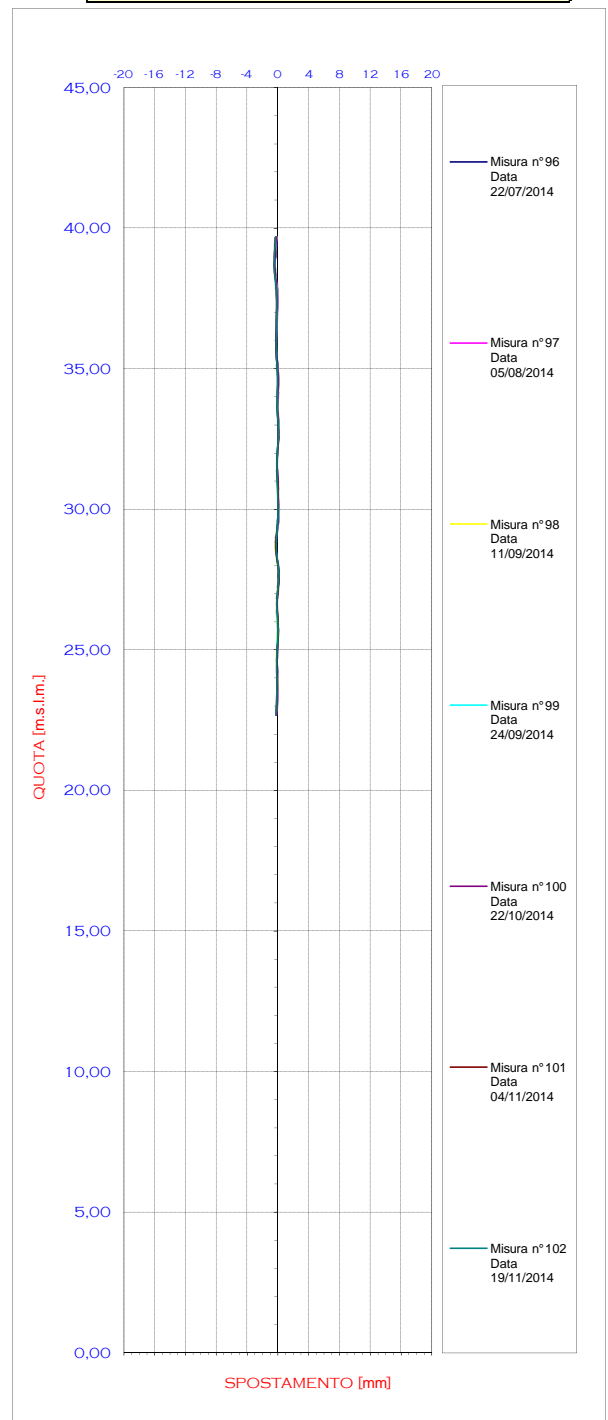
Ubicazione **STAZIONE CHIAIA**  
 Tipo Strumento **Tubo inclinometrico**  
 Nome tubo **CH\_IN\_P50**  
 Azimut di riferimento **80**  
 Quota guida rif. (m.s.l.m.) **40,18**  
 Data lettura di zero **21/01/2011**  
 Data posa in opera **21/12/2010**

Ultima Misura **102** in data **19/11/2014 10.07**

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

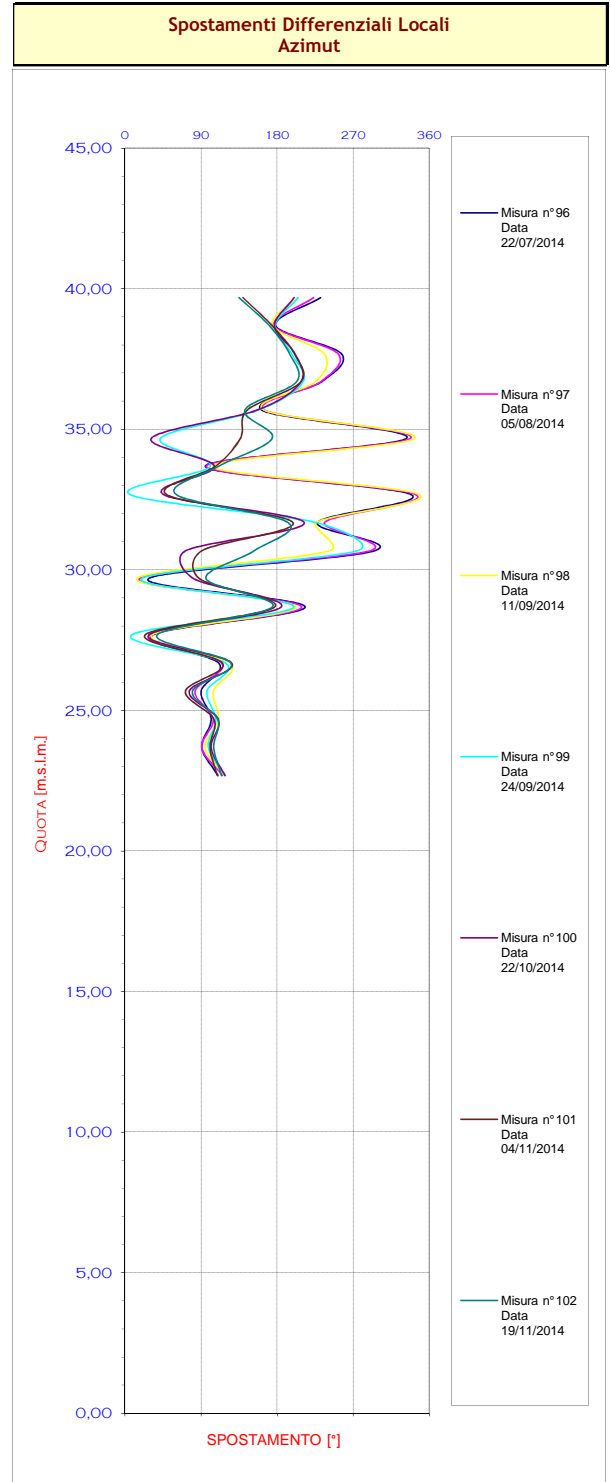
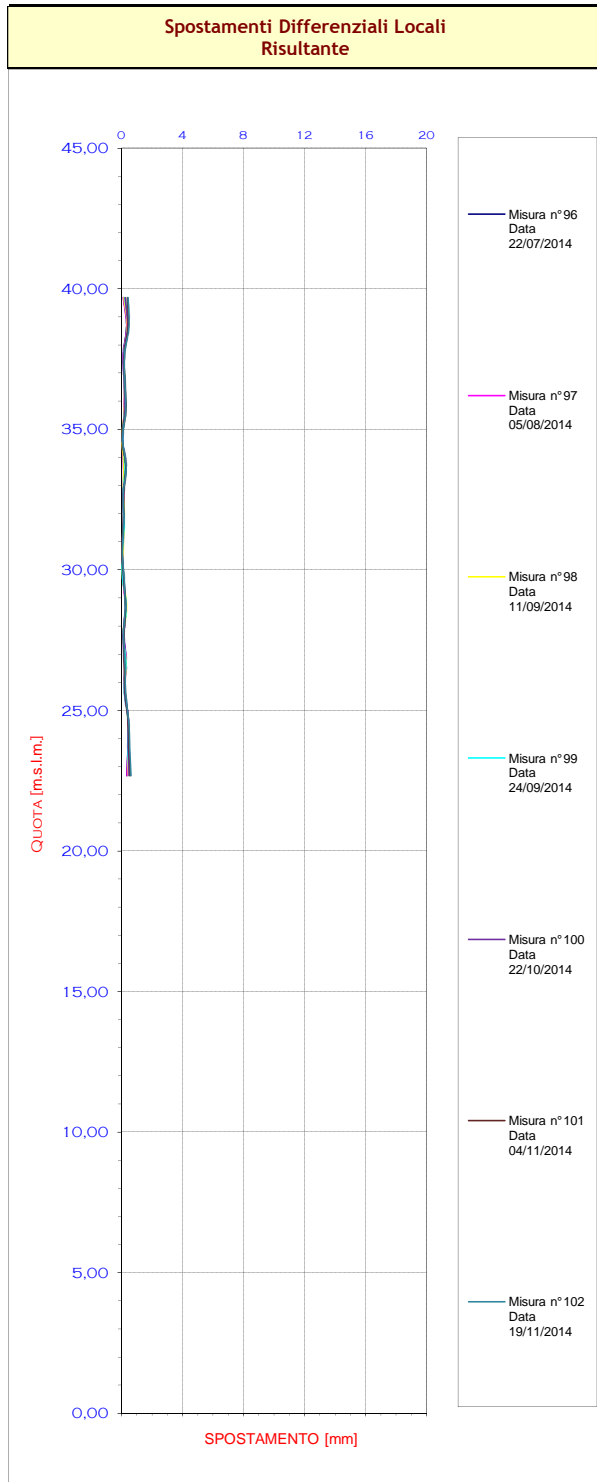


**Spostamenti Differenziali Locali  
SUD - (valori negativi) / NORD + (valori positivi)**



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 **102** in data **19/11/2014 10.07**



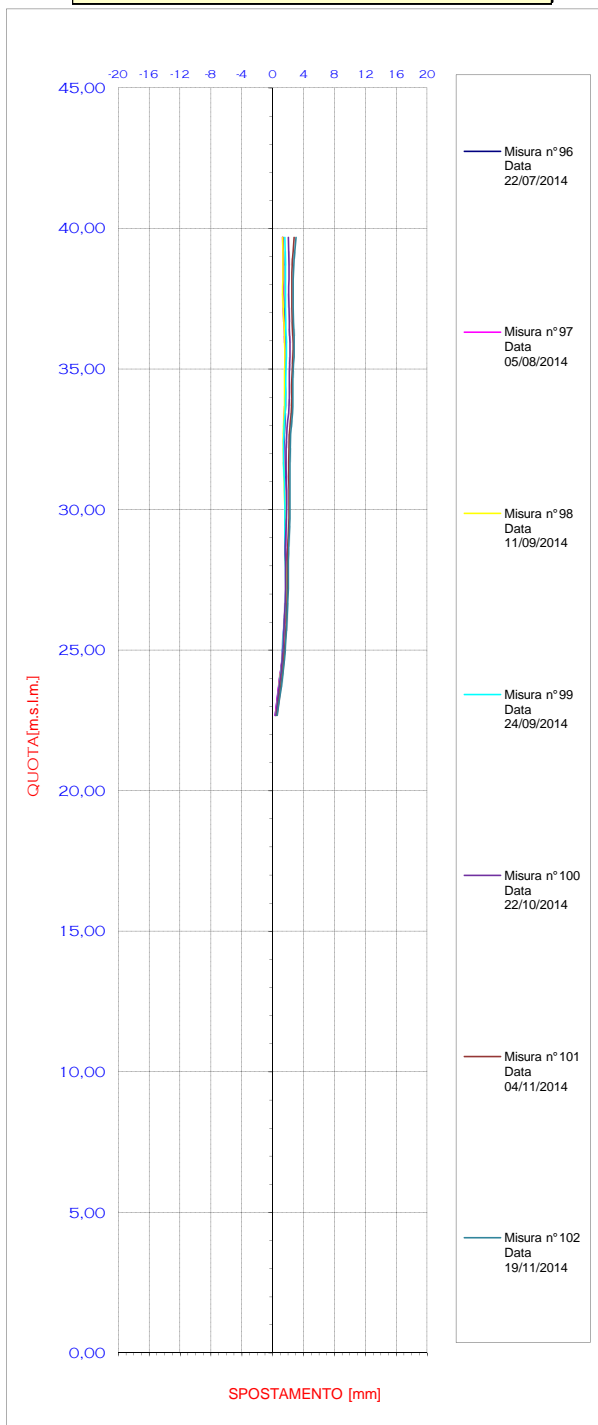


MISURE INCLINOMETRICHE  
ELABORAZIONE DA FONDO FORO  
-GRAFICI-3/5

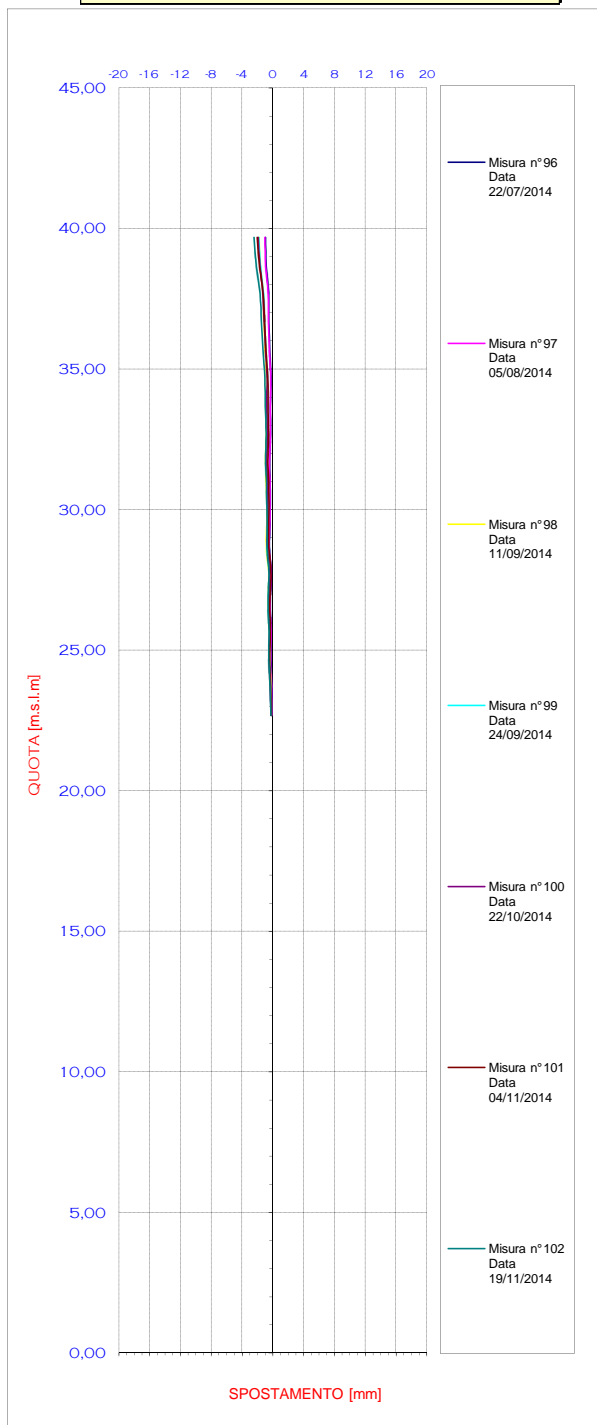
Ubicazione **STAZIONE CHIAIA**  
 Tipo Strumento **Tubo inclinometrico**  
 Nome tubo **CH\_IN\_P50**  
 Azimut di riferimento **80**  
 Quota guida rif. (m.s.l.m.) **40,18**  
 Data lettura di zero **21/01/2011**  
 Data posa in opera **21/12/2010**

Ultima Misura **102** in data **19/11/2014 10.07**

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



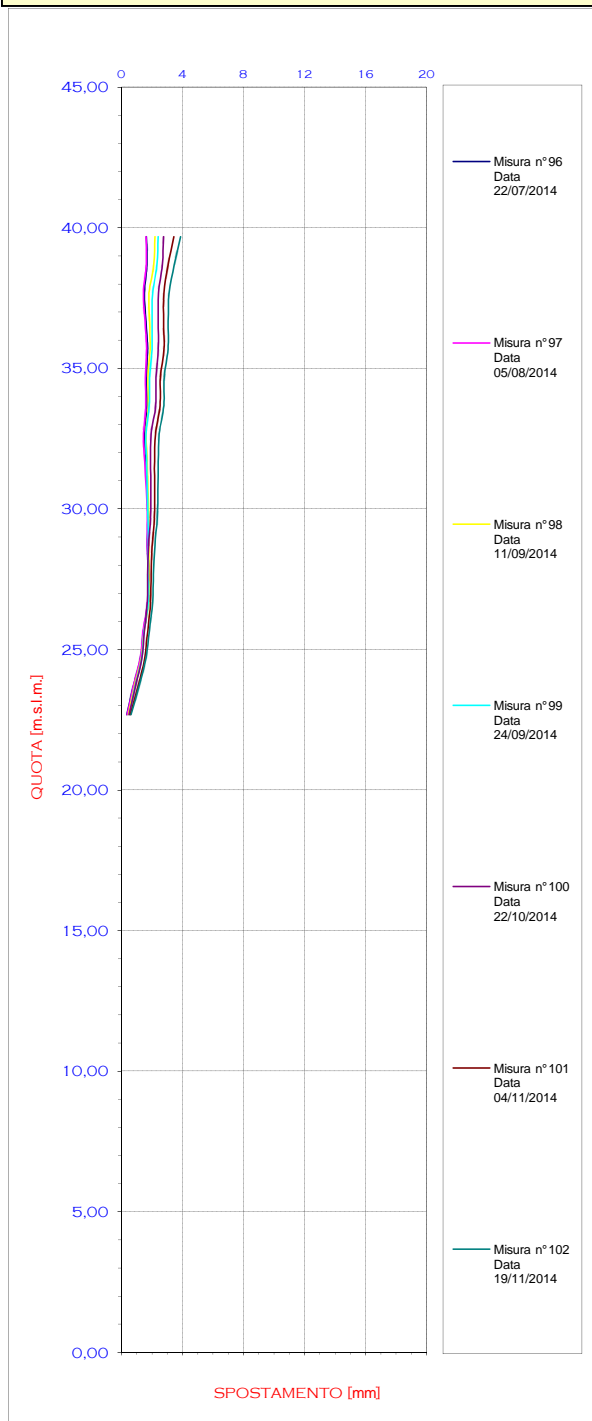
Spostamenti Differenziali Integrali  
SUD - (valori negativi) / NORD + (valori positivi)



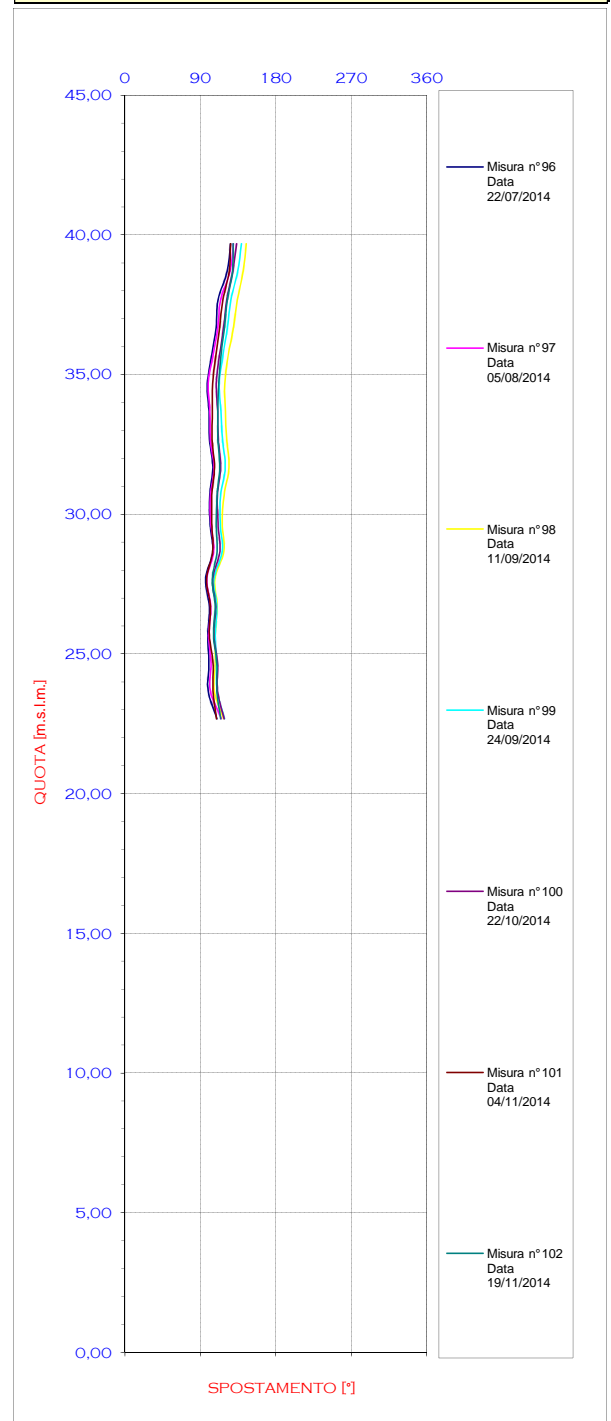
Ubicazione **STAZIONE CHIAIA**  
 Tipo Strumento **Tubo inclinometrico**  
 Nome tubo **CH\_IN\_P50**  
 Azimut di riferimento **80**  
 Quota guida rif. (m.s.l.m.) **40,18**  
 Data lettura di zero **21/01/2011**  
 Data posa in opera **21/12/2010**

Ultima Misura **102** in data **19/11/2014 10.07**

Spostamenti Differenziali Integrali Risultante



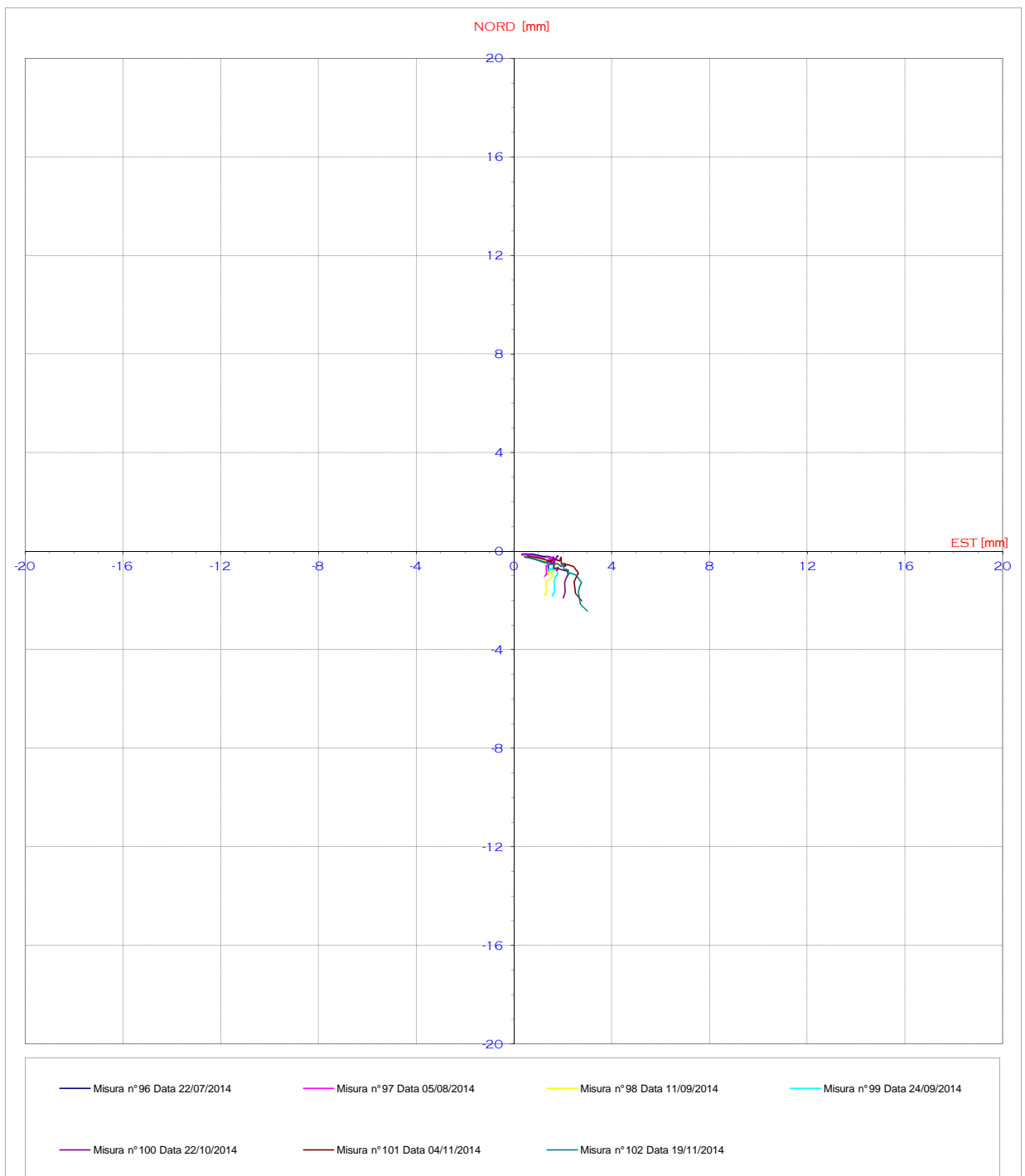
Spostamenti Differenziali Integrali Azimut



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**

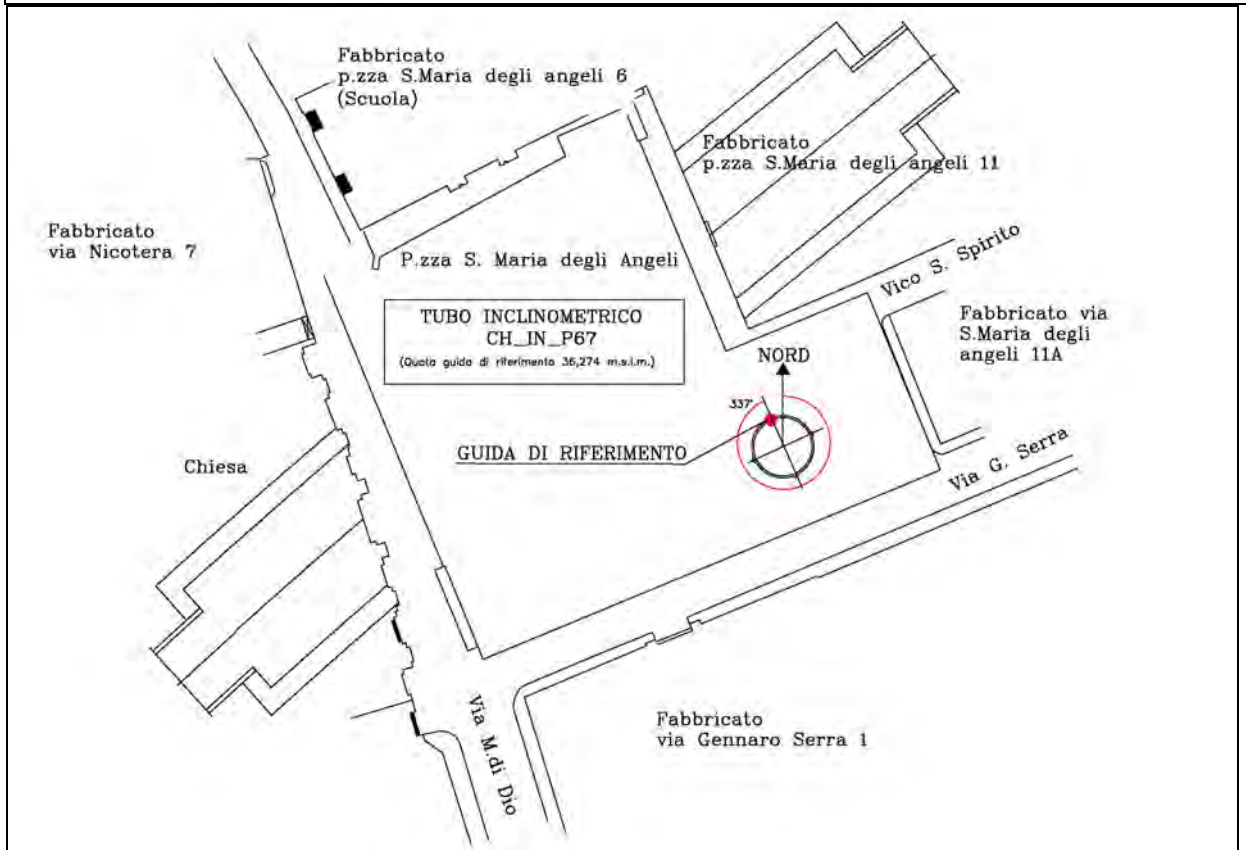
Ultima Misura **102** in data **19/11/2014 10.07**

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



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

**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** 154 **in data** 19/11/2014 10.16

SPOSTAMENTI LOCALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
35,8	-0,059	-0,061	0,085	224,090
34,8	-0,384	-0,132	0,406	251,039
33,8	-0,229	0,216	0,315	313,278
32,8	-0,279	0,061	0,285	282,369
31,8	-0,081	0,143	0,164	330,346
30,8	-0,242	-0,124	0,272	242,838
29,8	0,011	0,232	0,233	2,772
28,8	-0,331	-0,053	0,335	260,913
27,8	0,090	0,180	0,202	26,462
26,8	0,027	0,053	0,060	27,098
25,8	-0,243	0,536	0,589	335,584
24,8	-0,011	0,465	0,465	358,593
23,8	0,179	0,465	0,498	21,118
22,8	0,262	0,367	0,451	35,588
21,8	0,081	-0,320	0,330	165,714
20,8	0,163	0,187	0,248	41,117
19,8	0,107	0,497	0,508	12,201
18,8	0,182	0,259	0,317	35,058
17,8	0,106	0,100	0,145	46,632
16,8	-0,276	0,201	0,342	306,082
15,8	-0,295	0,146	0,329	296,379
14,8	-0,091	0,029	0,095	287,541
13,8	0,192	0,104	0,218	61,407

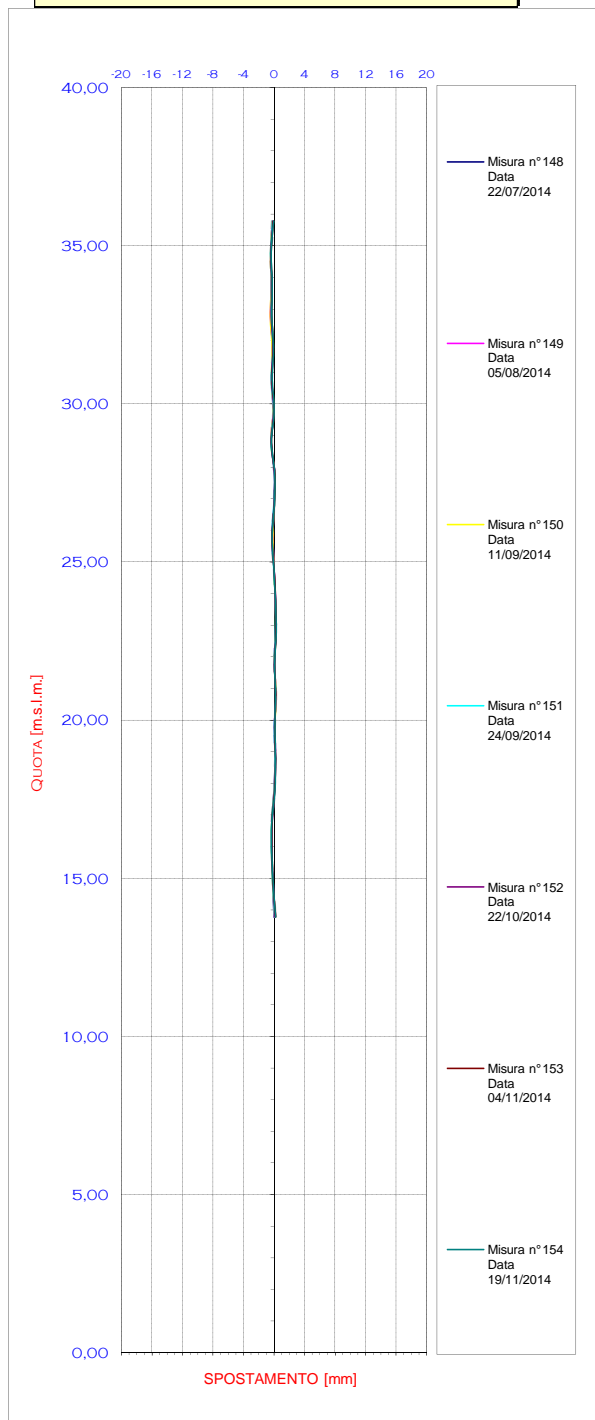
SPOSTAMENTI INTEGRALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
35,8	-1,120	3,552	3,725	342,498
34,8	-1,061	3,614	3,766	343,640
33,8	-0,677	3,745	3,806	349,754
32,8	-0,448	3,530	3,558	352,771
31,8	-0,169	3,468	3,473	357,208
30,8	-0,088	3,326	3,327	358,485
29,8	0,154	3,450	3,453	2,556
28,8	0,143	3,218	3,221	2,541
27,8	0,474	3,271	3,305	8,242
26,8	0,384	3,090	3,114	7,082
25,8	0,357	3,037	3,058	6,697
24,8	0,600	2,500	2,571	13,494
23,8	0,611	2,035	2,125	16,722
22,8	0,432	1,571	1,629	15,379
21,8	0,170	1,204	1,216	8,016
20,8	0,088	1,524	1,526	3,308
19,8	-0,075	1,336	1,339	356,774
18,8	-0,183	0,840	0,859	347,726
17,8	-0,365	0,580	0,685	327,851
16,8	-0,470	0,481	0,672	315,615
15,8	-0,194	0,279	0,340	325,188
14,8	0,101	0,133	0,167	37,094
13,8	0,192	0,104	0,218	61,407



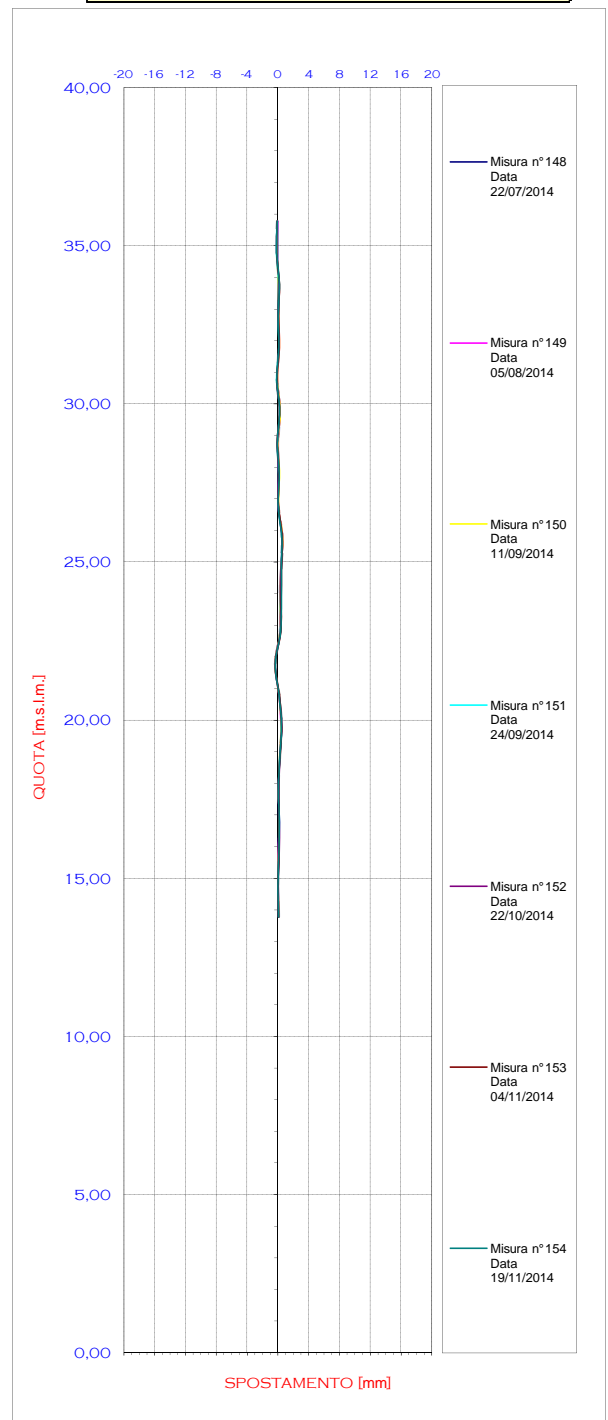
Ubicazione **STAZIONE CHIAIA**  
 Tipo Strumento **Tubo inclinometrico**  
 Nome tubo **CH\_IN\_P67**  
 Azimut di riferimento **337**  
 Quota guida rif. (m.s.l.m.) **36,274**  
 Data lettura di zero **25/11/2009**  
 Data posa in opera **18/11/2009**

Ultima Misura **154** in data **19/11/2014 10.16**

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

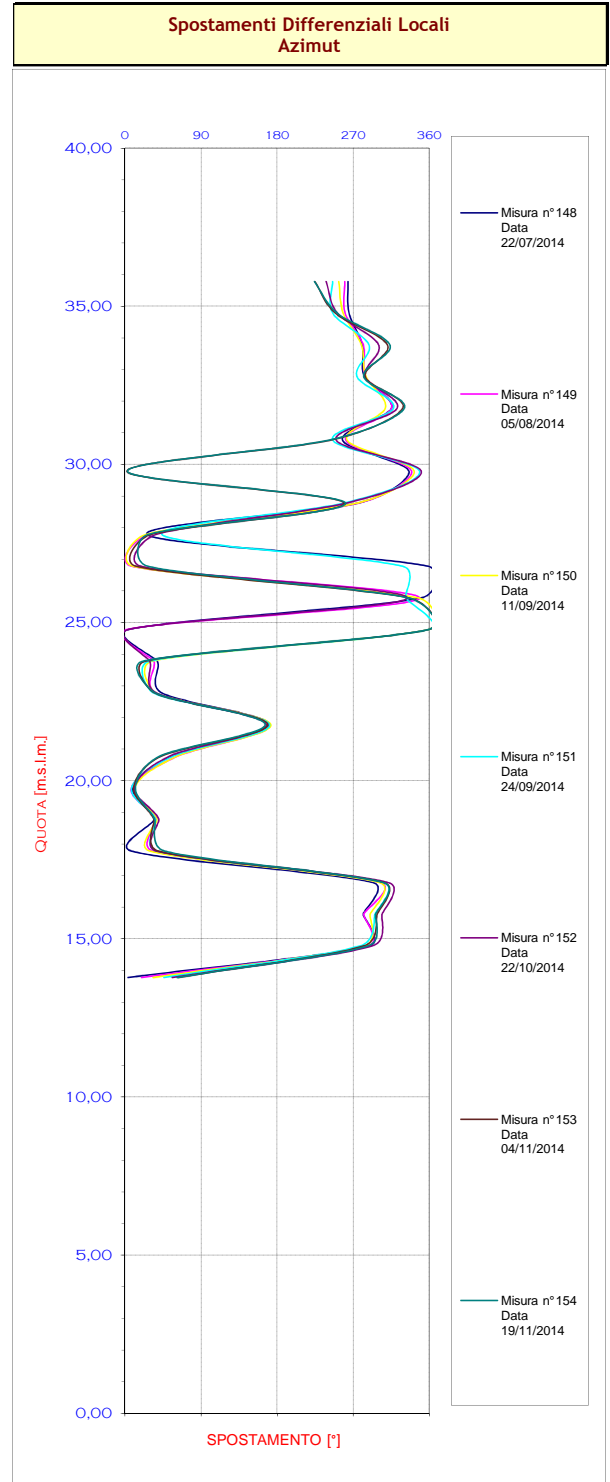
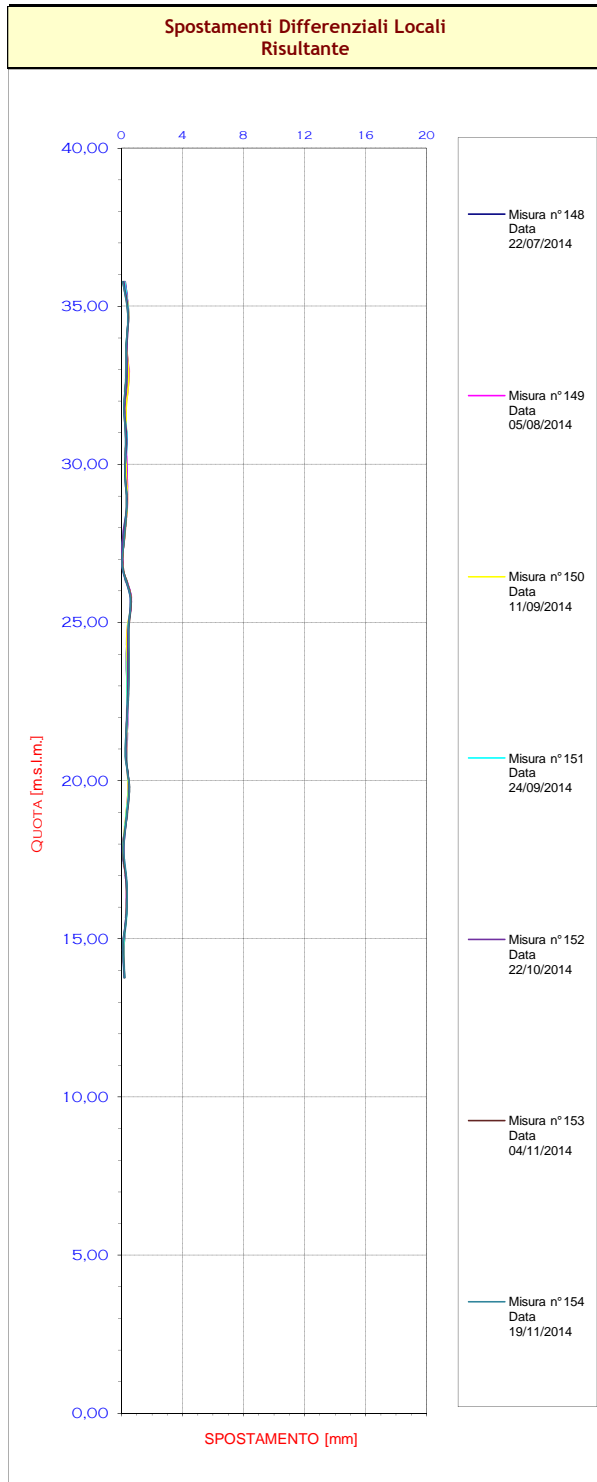


**Spostamenti Differenziali Locali  
SUD - (valori negativi) / NORD + (valori positivi)**



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**

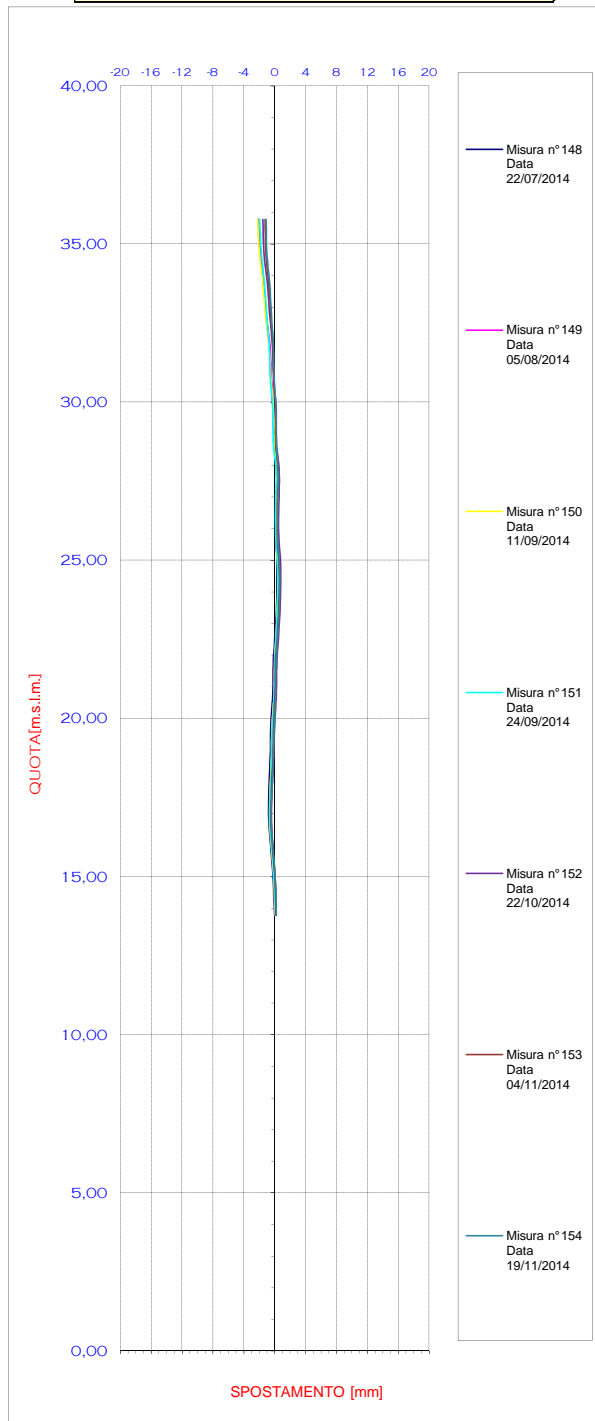
Ultima Misura **154** in data **19/11/2014 10.16**



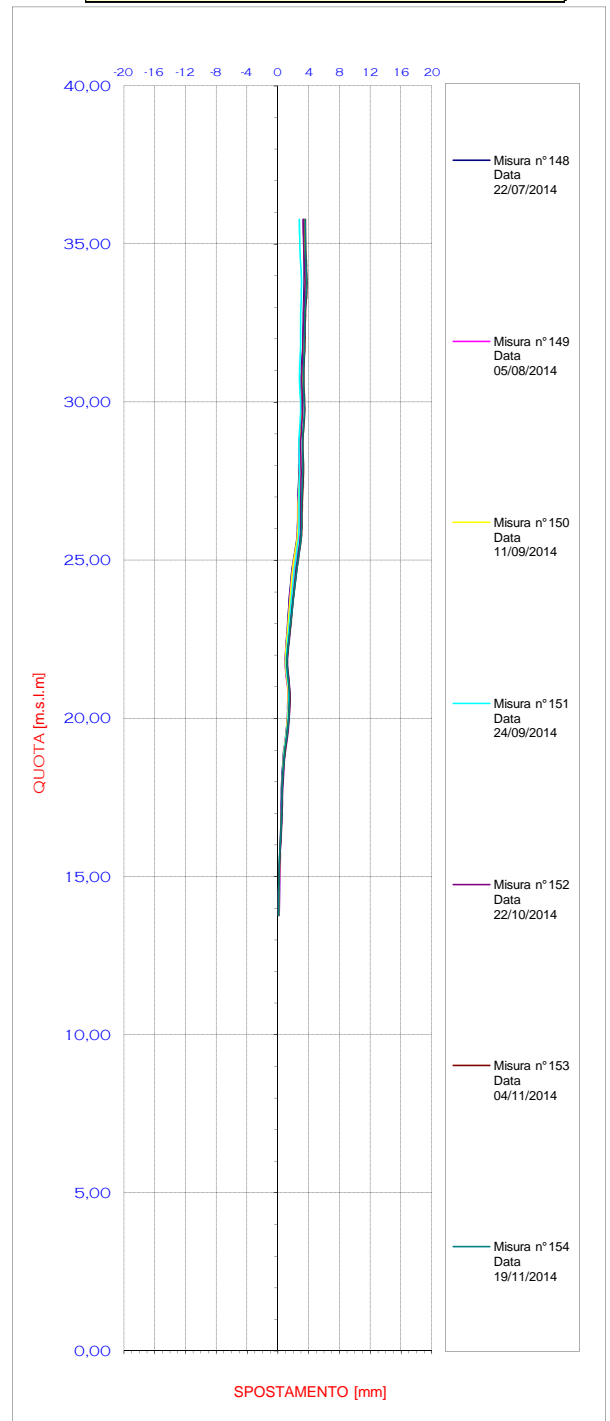
Ubicazione **STAZIONE CHIAIA**  
Tipo Strumento **Tubo inclinometrico**  
Nome tubo **CH\_IN\_P67**  
Azimut di riferimento **337**  
Quota guida rif. (m.s.l.m.) **36,274**  
Data lettura di zero **25/11/2009**  
Data posa in opera **18/11/2009**

Ultima Misura **154** in data **19/11/2014 10.16**

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



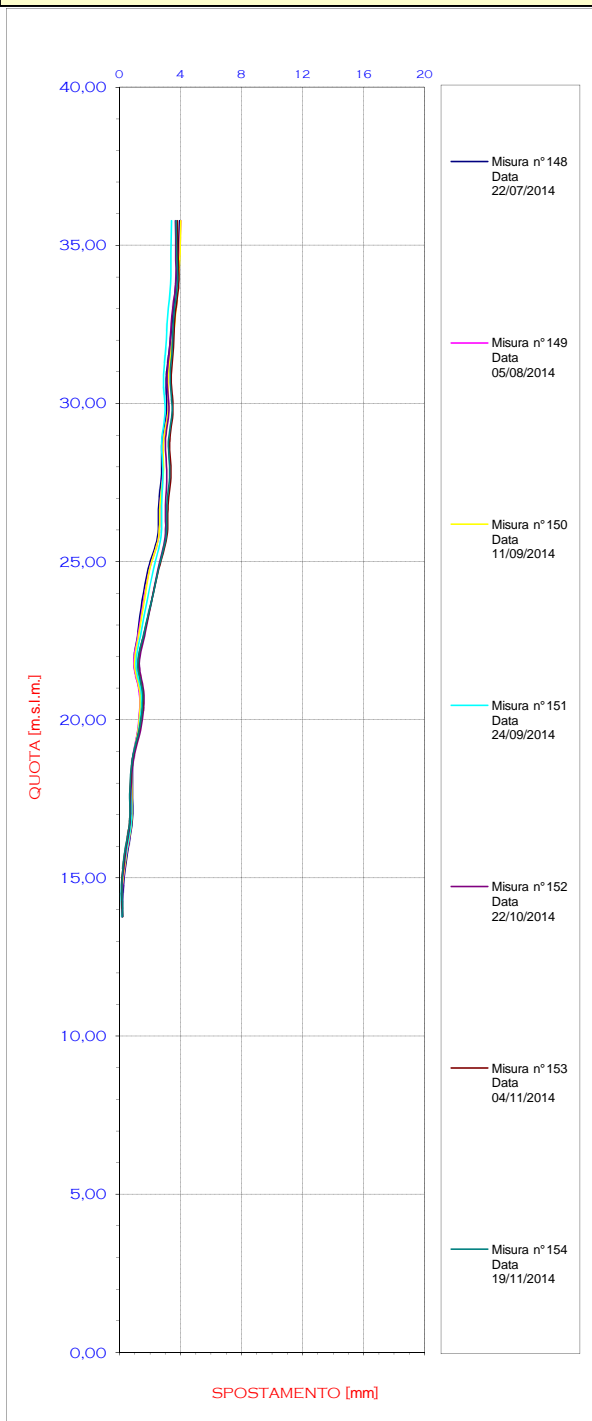
Spostamenti Differenziali Integrali  
SUD - (valori negativi) / NORD + (valori positivi)



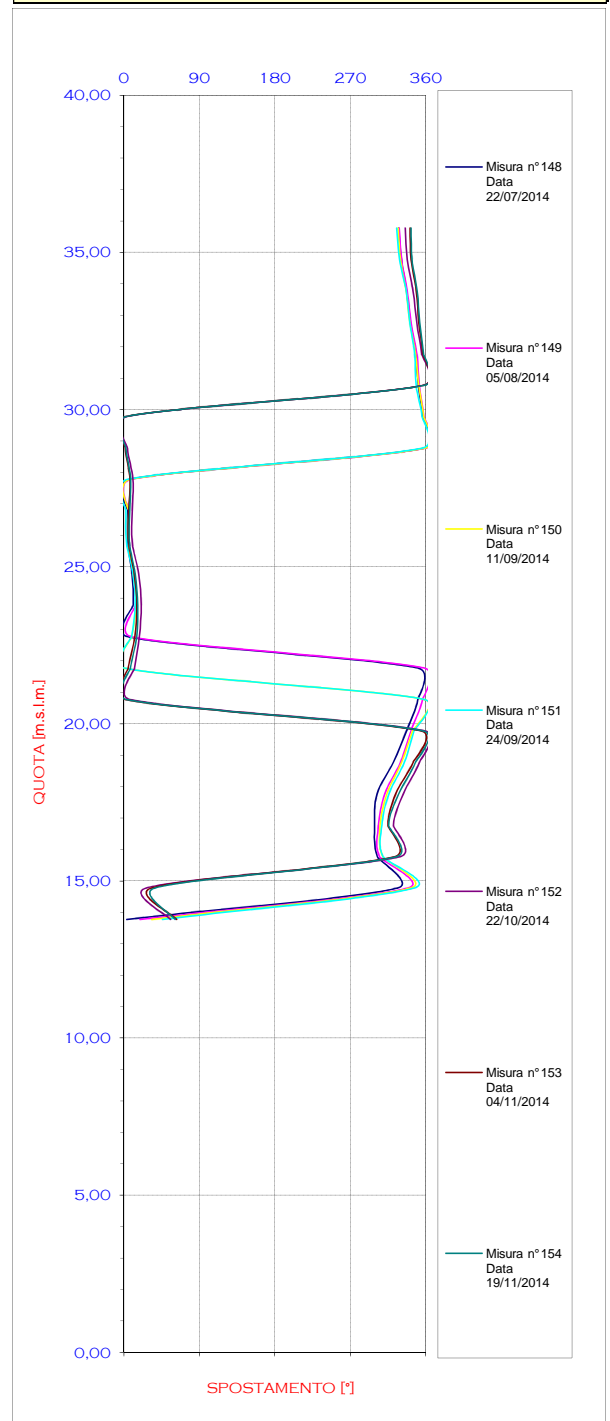
Ubicazione **STAZIONE CHIAIA**  
 Tipo Strumento **Tubo inclinometrico**  
 Nome tubo **CH\_IN\_P67**  
 Azimut di riferimento **337**  
 Quota guida rif. (m.s.l.m.) **36,274**  
 Data lettura di zero **25/11/2009**  
 Data posa in opera **18/11/2009**

Ultima Misura **154** in data **19/11/2014 10.16**

Spostamenti Differenziali Integrali Risultante



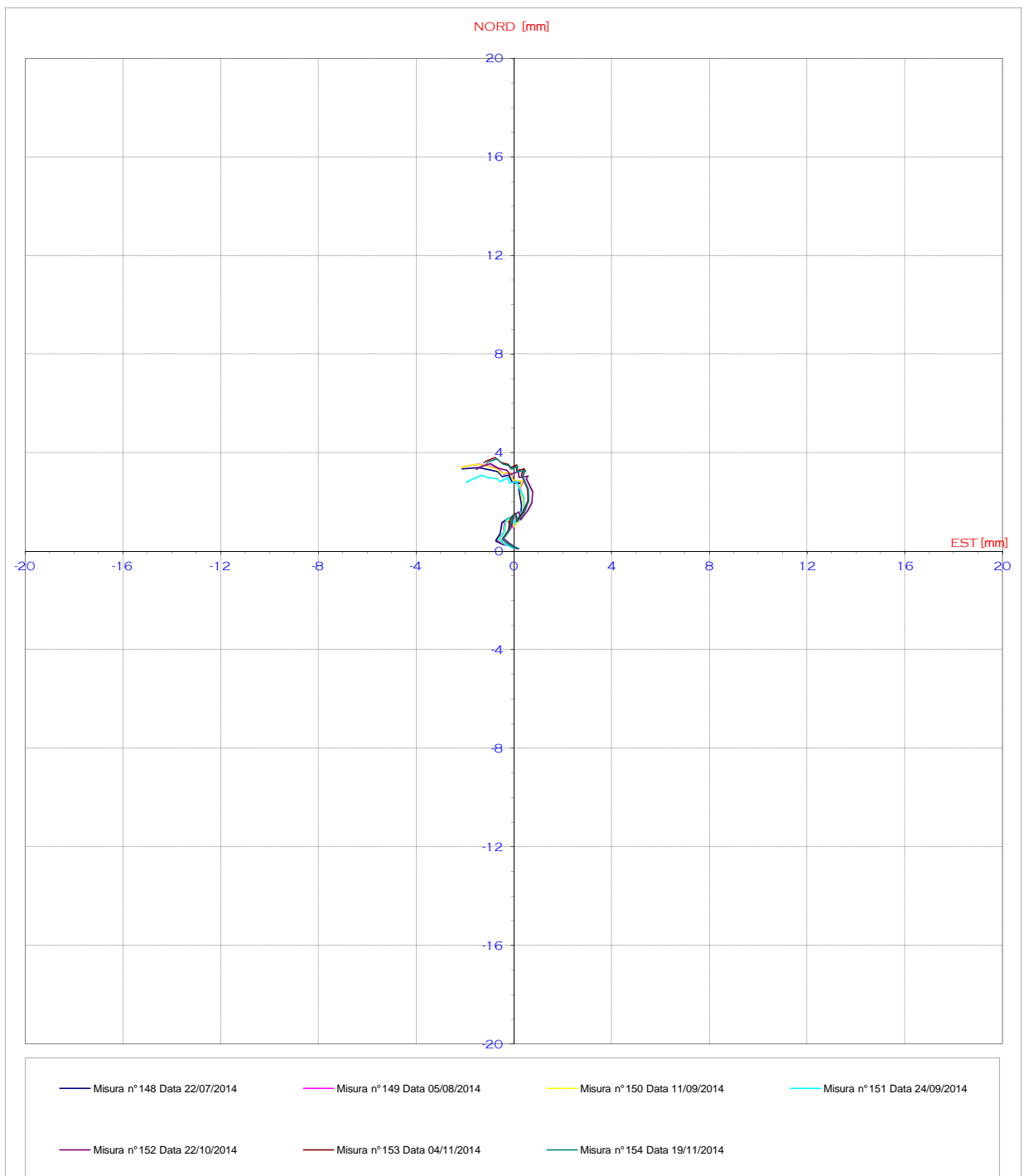
Spostamenti Differenziali Integrali Azimut

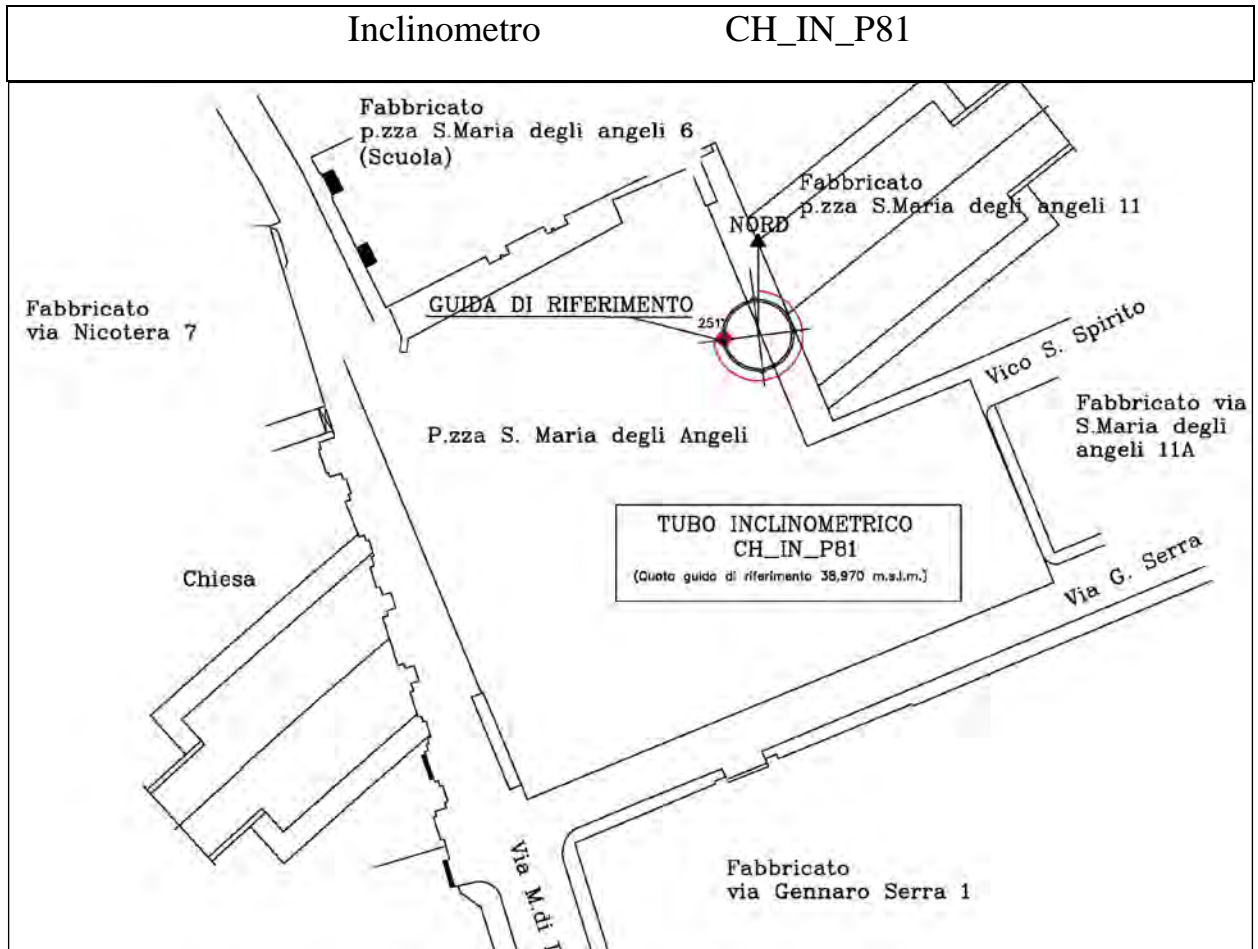


Ubicazione **STAZIONE CHIAIA**  
 Tipo Strumento **Tubo inclinometrico**  
 Nome tubo **CH\_IN\_P67**  
 Azimut di riferimento **337**  
 Quota guida rif. (m.s.l.m.) **36,274**  
 Data lettura di zero **25/11/2009**  
 Data posa in opera **18/11/2009**

Ultima Misura **154** in data **19/11/2014 10.16**

Spostamenti Differenziali Integrali  
Diagramma polare





<b>Affidabilità strumentale</b> A.T.I. LM6 – TreEsse	<b>Congruenza progettuale</b> 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"/>

<b>NOTE</b>


**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** 101 **in data** 19/11/2014 10.37

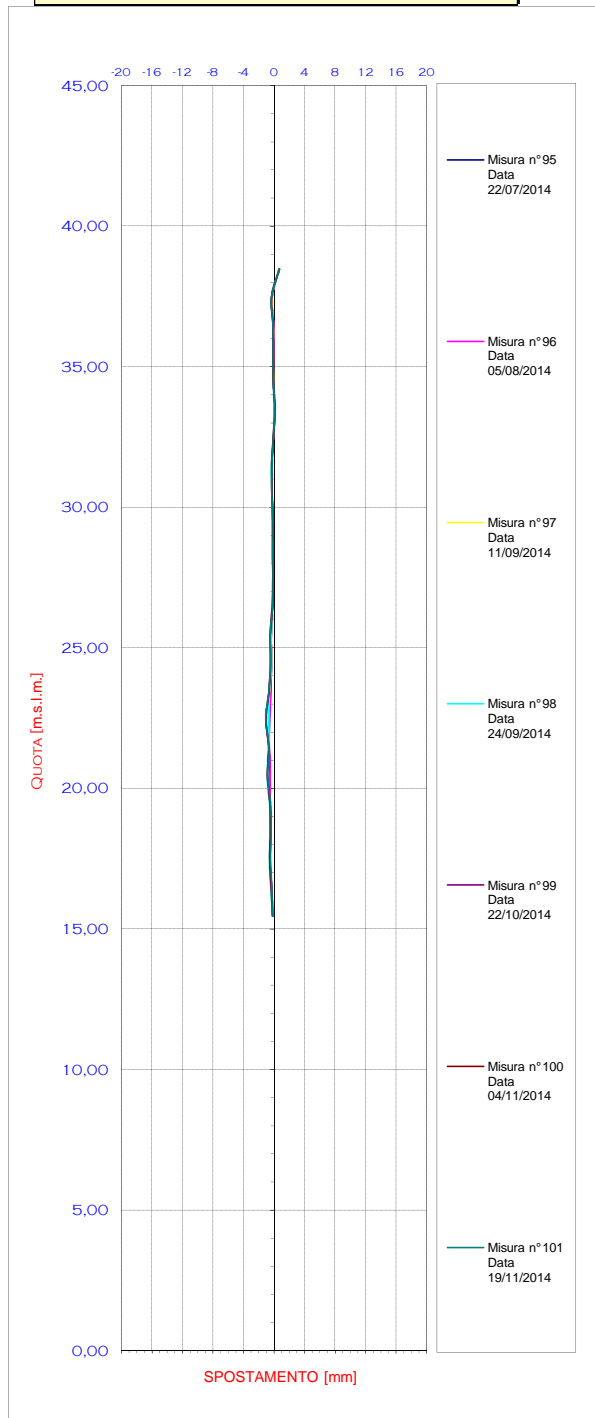
SPOSTAMENTI LOCALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
38,5	0,705	-0,392	0,807	119,067
37,5	-0,337	-0,415	0,535	219,104
36,5	-0,143	-0,062	0,156	246,344
35,5	-0,146	0,173	0,227	319,812
34,5	-0,099	0,136	0,168	323,930
33,5	0,087	0,107	0,138	38,870
32,5	-0,107	0,050	0,118	295,285
31,5	-0,281	0,275	0,393	314,284
30,5	-0,291	-0,023	0,292	265,478
29,5	-0,140	0,096	0,170	304,641
28,5	-0,186	-0,213	0,283	221,096
27,5	-0,131	-0,062	0,145	244,670
26,5	-0,218	-0,115	0,246	242,093
25,5	-0,510	-0,158	0,534	252,821
24,5	-0,470	-0,143	0,492	253,088
23,5	-0,698	-0,019	0,698	268,431
22,5	-1,101	-0,204	1,120	259,514
21,5	-0,677	0,031	0,677	272,587
20,5	-0,843	-0,084	0,847	264,297
19,5	-0,468	-0,075	0,474	260,956
18,5	-0,385	-0,207	0,437	241,762
17,5	-0,482	-0,072	0,487	261,491
16,5	-0,293	0,016	0,293	273,131
15,5	-0,228	0,195	0,300	310,468

SPOSTAMENTI INTEGRALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
38,5	-7,443	-1,166	7,533	261,099
37,5	-8,148	-0,773	8,185	264,578
36,5	-7,811	-0,358	7,819	267,372
35,5	-7,668	-0,296	7,674	267,790
34,5	-7,522	-0,469	7,536	266,431
33,5	-7,423	-0,605	7,447	265,338
32,5	-7,509	-0,713	7,543	264,578
31,5	-7,403	-0,763	7,442	264,115
30,5	-7,121	-1,038	7,196	261,710
29,5	-6,831	-1,015	6,906	261,551
28,5	-6,691	-1,111	6,783	260,572
27,5	-6,505	-0,898	6,566	262,144
26,5	-6,373	-0,835	6,428	262,533
25,5	-6,156	-0,720	6,198	263,328
24,5	-5,646	-0,562	5,674	264,311
23,5	-5,175	-0,419	5,192	265,367
22,5	-4,477	-0,400	4,495	264,892
21,5	-3,376	-0,196	3,382	266,670
20,5	-2,700	-0,227	2,709	265,193
19,5	-1,856	-0,143	1,862	265,601
18,5	-1,388	-0,068	1,390	267,184
17,5	-1,003	0,139	1,012	277,874
16,5	-0,521	0,211	0,562	292,024
15,5	-0,228	0,195	0,300	310,468

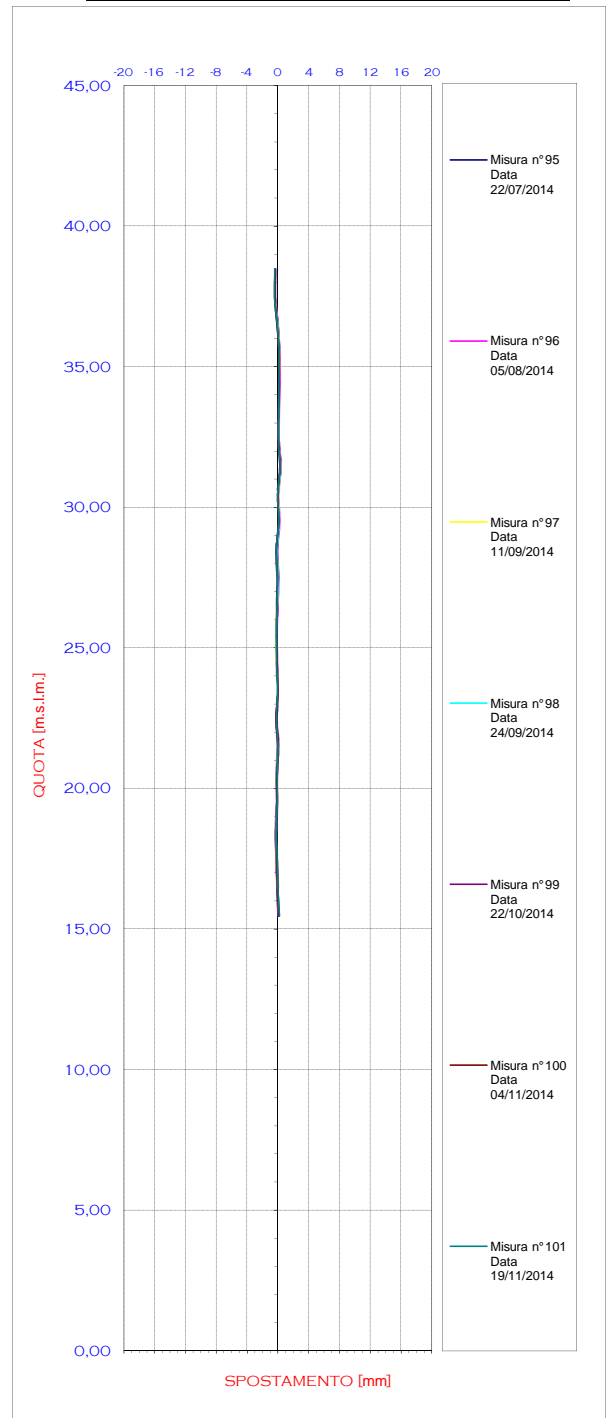
Ubicazione **STAZIONE CHIAIA**  
 Tipo Strumento **Tubo inclinometrico**  
 Nome tubo **CH\_IN\_P81**  
 Azimut di riferimento **251**  
 Quota guida rif. (m.s.l.m.) **38,97**  
 Data lettura di zero **21/01/2011**  
 Data posa in opera **21/12/2010**

Ultima Misura **101** in data **19/11/2014 10.37**

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



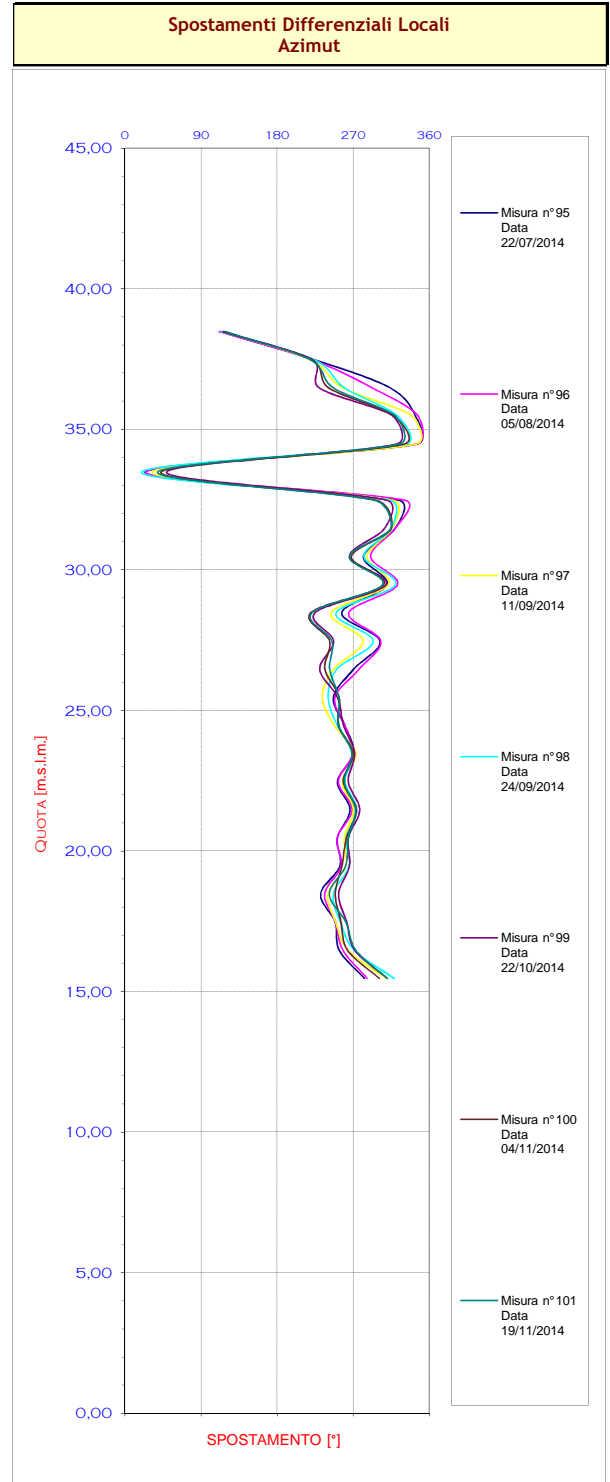
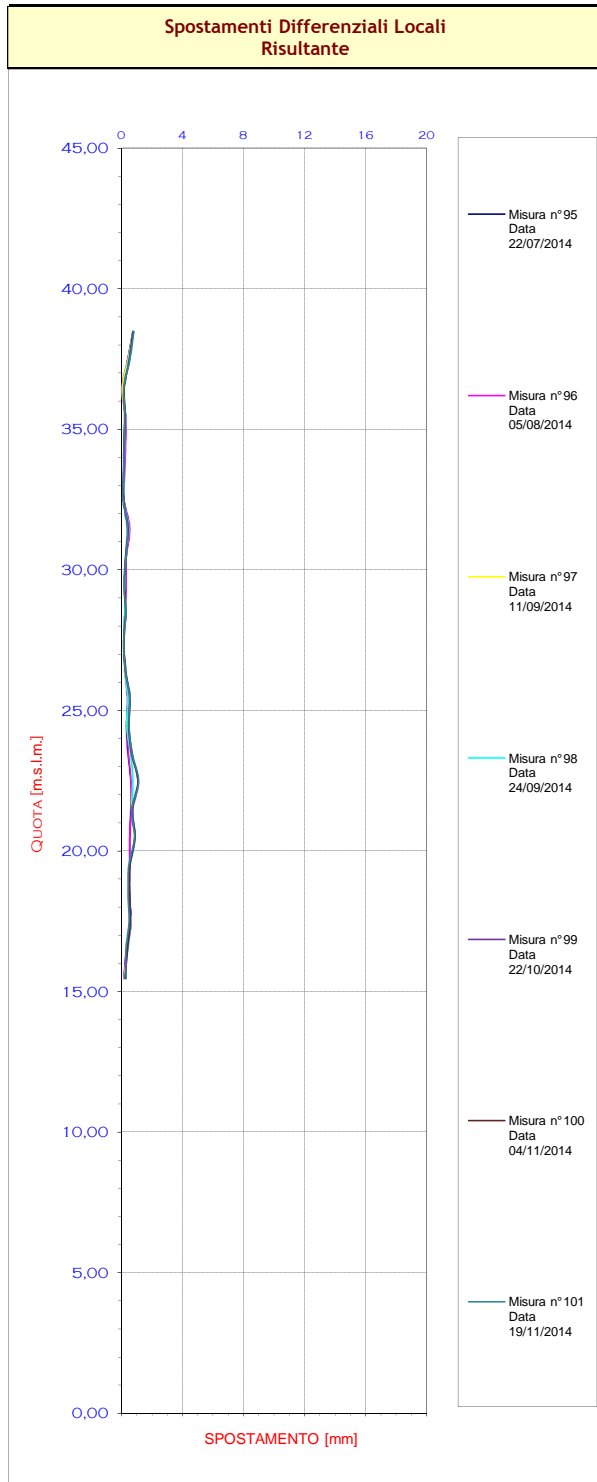
**Spostamenti Differenziali Locali  
SUD - (valori negativi) / NORD + (valori positivi)**





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**

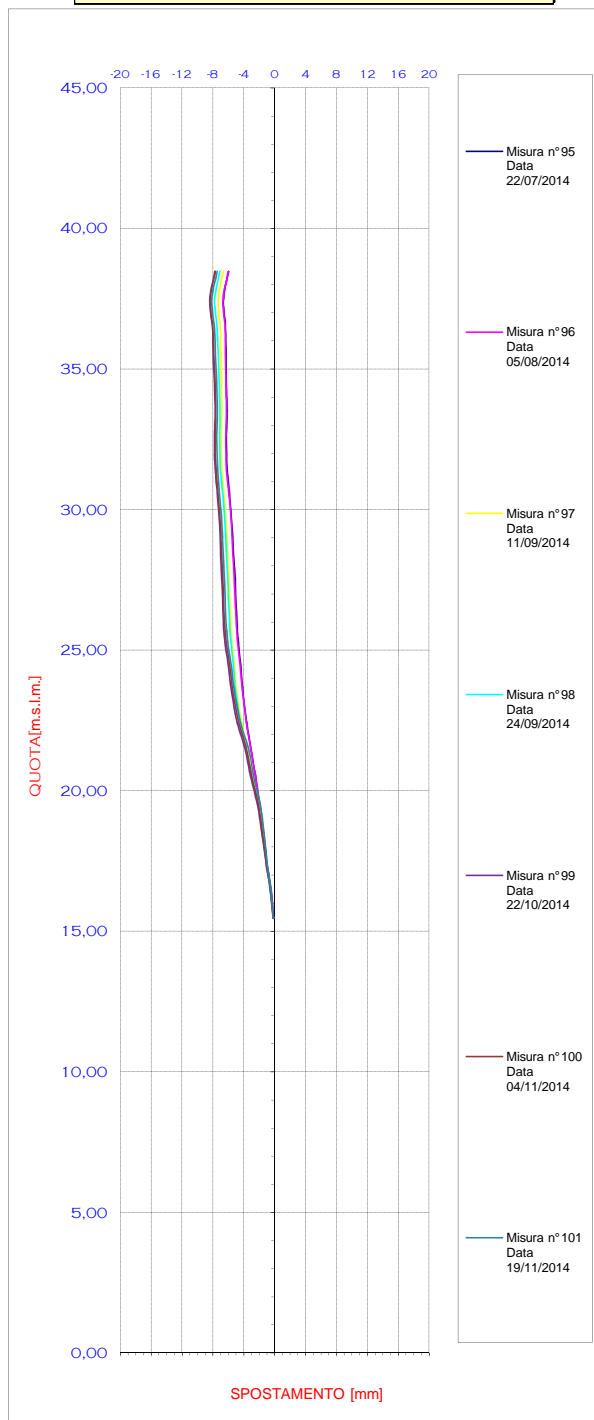
Ultima Misura **101** in data **19/11/2014 10.37**



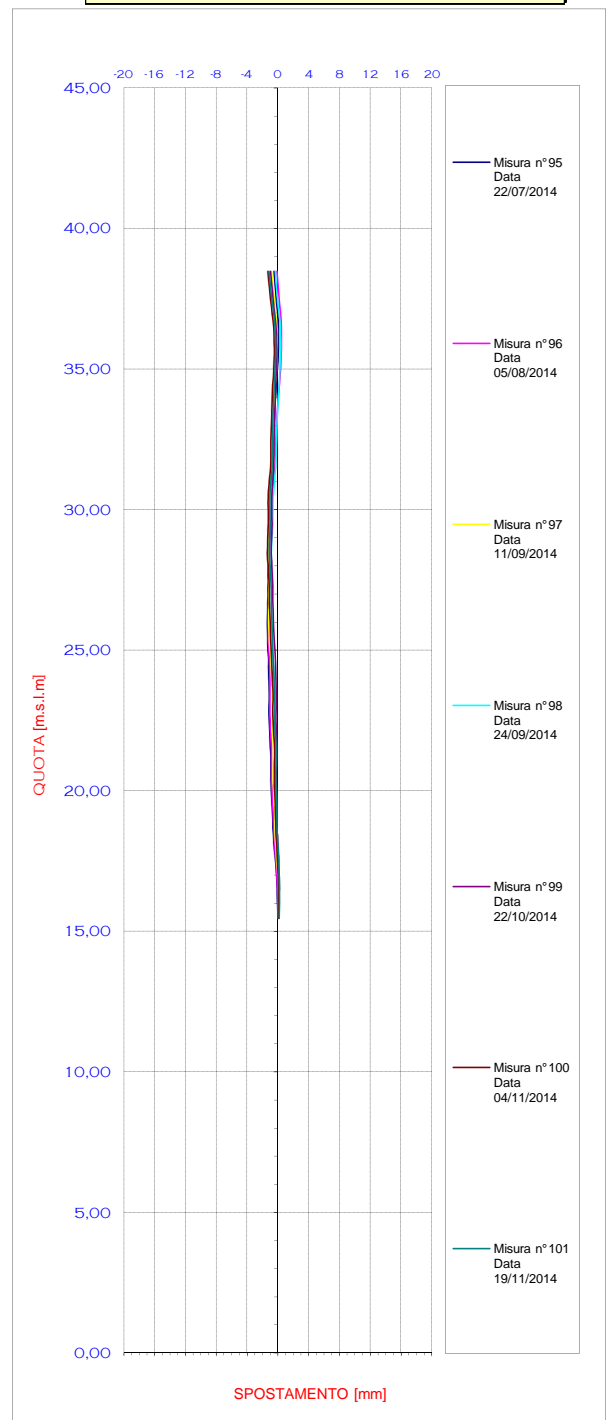
Ubicazione **STAZIONE CHIAIA**  
 Tipo Strumento **Tubo inclinometrico**  
 Nome tubo **CH\_IN\_P81**  
 Azimut di riferimento **251**  
 Quota guida rif. (m.s.l.m.) **38,97**  
 Data lettura di zero **21/01/2011**  
 Data posa in opera **21/12/2010**

Ultima Misura **101** in data **19/11/2014 10.37**

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



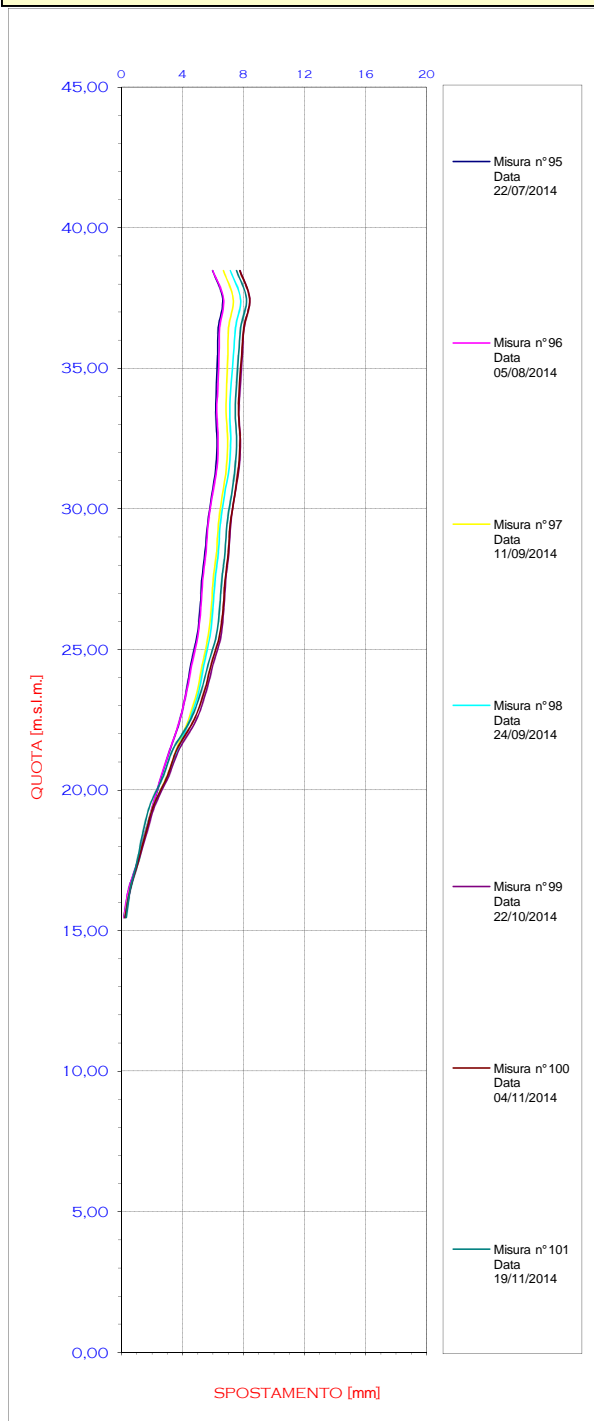
Spostamenti Differenziali Integrali  
SUD - (valori negativi) / NORD + (valori positivi)



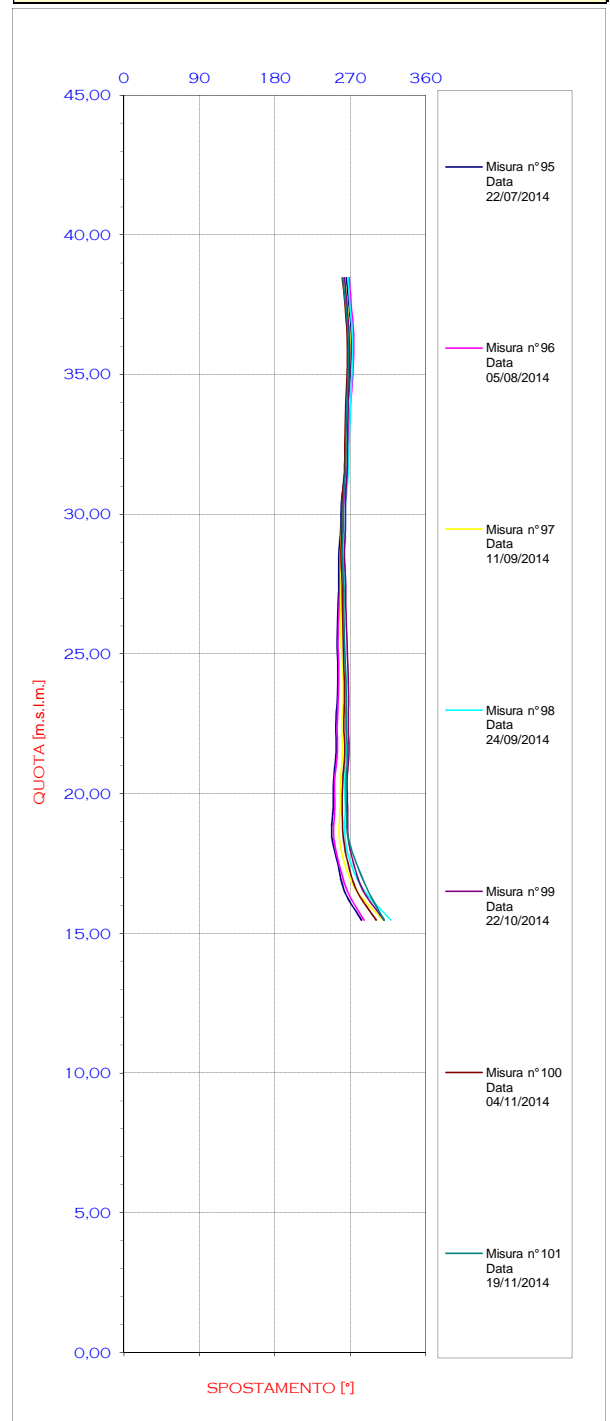
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 Tipo Strumento **Tubo inclinometrico**  
 Nome tubo **CH\_IN\_P81**  
 Azimut di riferimento **251**  
 Quota guida rif. (m.s.l.m.) **38,97**  
 Data lettura di zero **21/01/2011**  
 Data posa in opera **21/12/2010**

Ultima Misura **101** in data **19/11/2014 10.37**

Spostamenti Differenziali Integrali Risultante



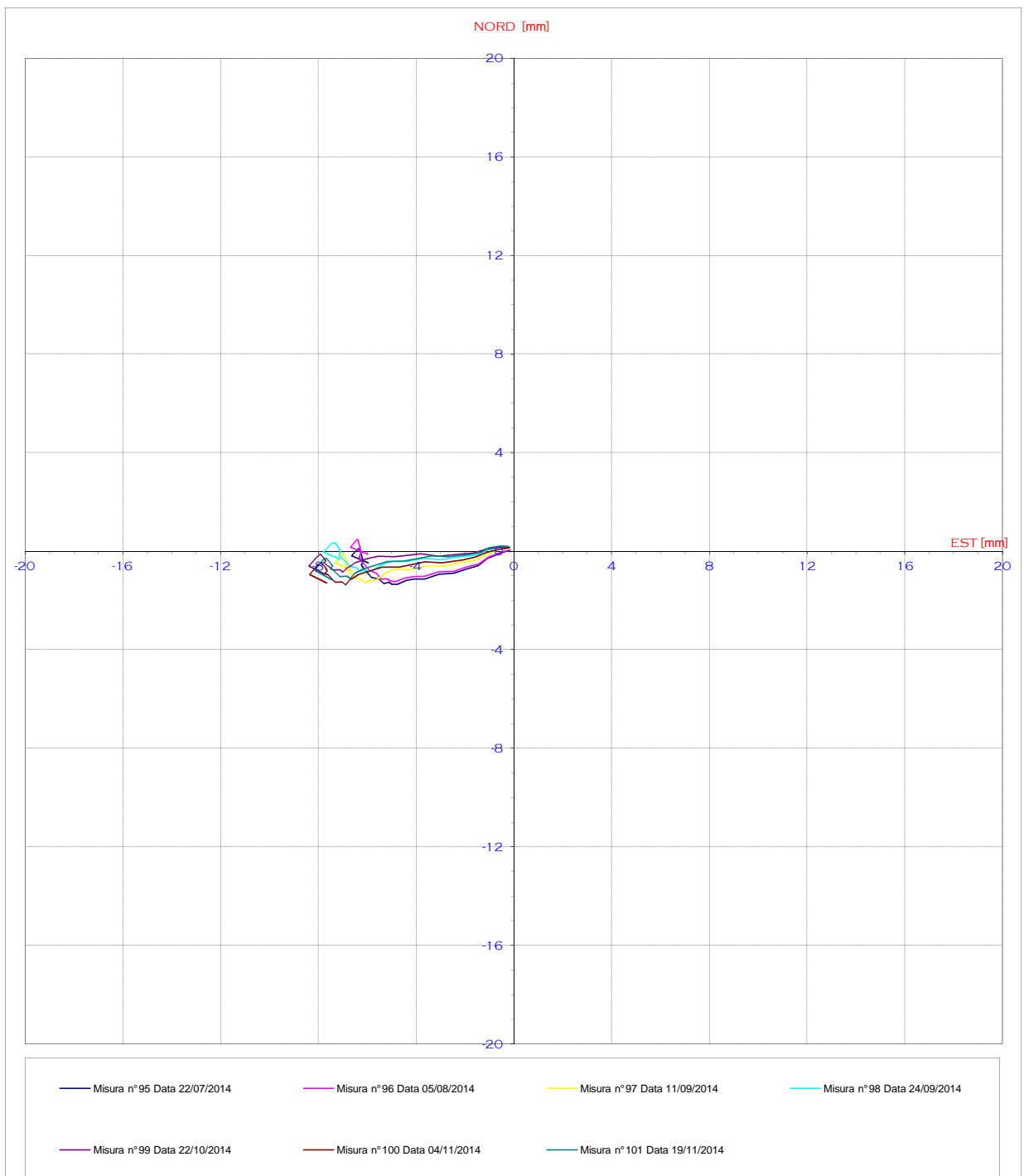
Spostamenti Differenziali Integrali Azimut




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 **101** in data **19/11/2014 10.37**

Spostamenti Differenziali Integrali  
Diagramma polare



 <p><b>Ansaldo STS</b> A Finmeccanica Company</p>	<p><b>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</b></p> <p><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO</i> <i>REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C I 37 Data: 28/11/14 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><b>Ansaldo STS</b> A Finmeccanica Company</p>	<p><b>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</b></p> <p>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO REPORT DELLE MISURE - STAZIONE CHIAIA</p>	<p>LM6 7FX 2C I 37 Data: 28/11/14 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><b>Ansaldo STS</b> A Finmeccanica Company</p>	<p><b>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</b></p> <p>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO REPORT DELLE MISURE - STAZIONE CHIAIA</p>	<p>LM6 7FX 2C I 37 Data: 28/11/14 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><b>Ansaldo STS</b> A Finmeccanica Company</p>	<p><b>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</b></p> <p><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO</i></p> <p><i>REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C I 37 Data: 28/11/14 Metropolitana di Napoli A.T.I. LM6 TreEsse Engineering S.r.l.</p>
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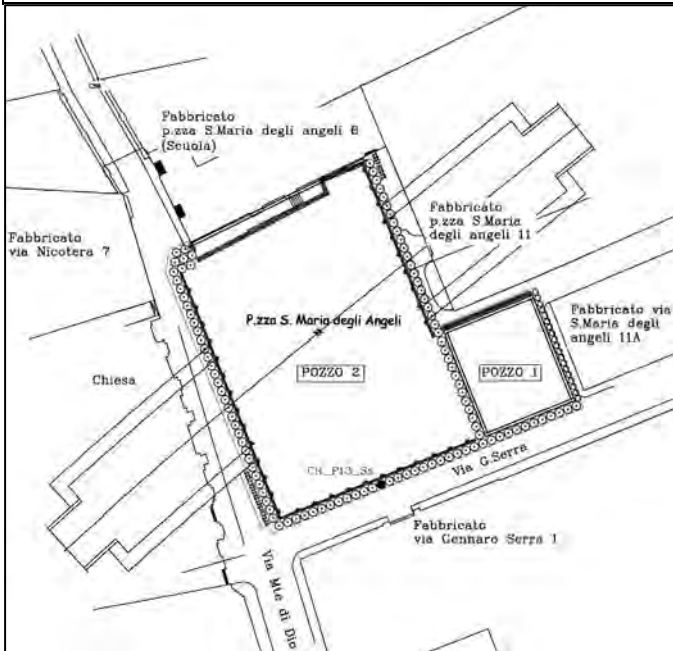
Tabella Puntoni PU1 e PU2

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			

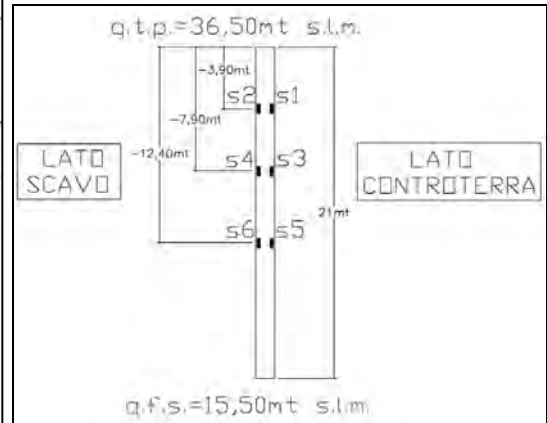


Pannello strumentato

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

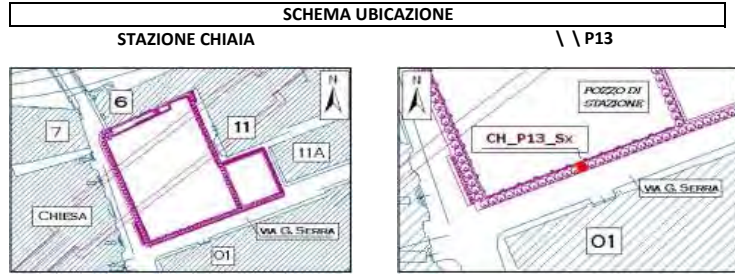
Data lettura di zero 03/09/2009

Ultima Misura 199 in data 19/11/2014

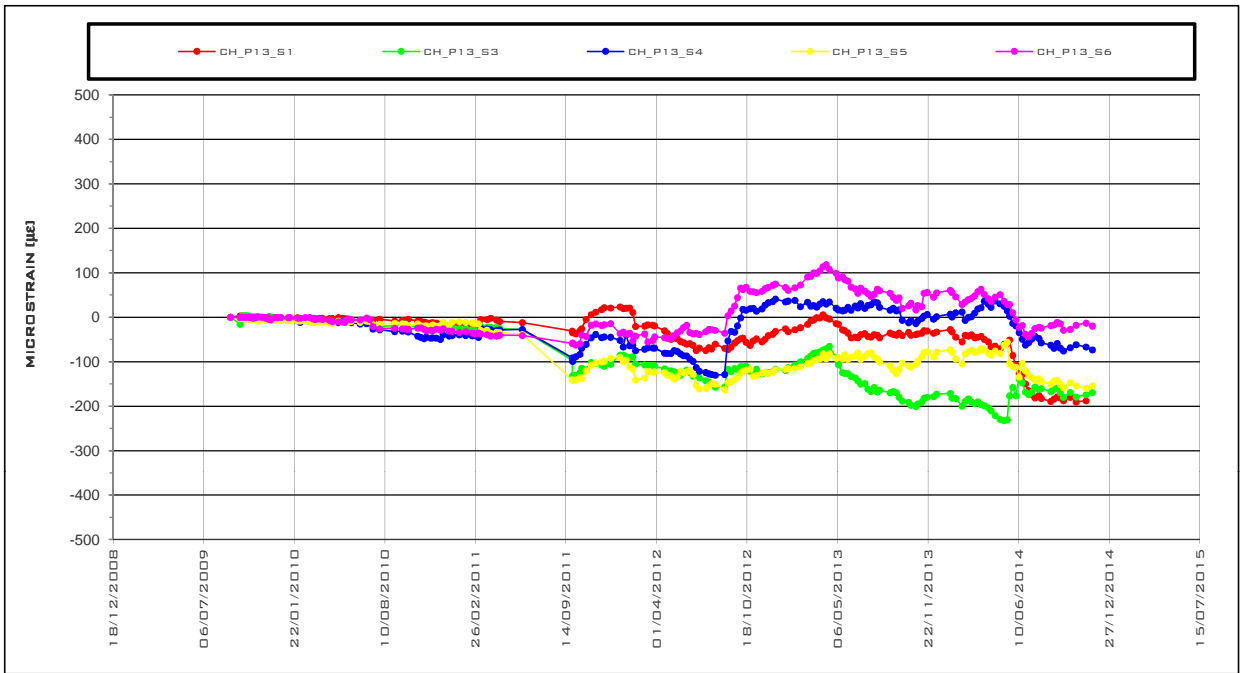
Letture n°	DATA	CH_P13_S1		CH_P13_S3		CH_P13_S4		CH_P13_S5		CH_P13_S6	
		Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]
147	1/8/13 12.30	-40,3	15,4	-167,9	15,0	32,8	17,9	-93,6	13,4	63,3	18,0
148	6/8/13 11.30	-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
157	29/10/13 11.30	-37,1	15,0	-194,7	14,8	-8,2	16,2	-98,5	14,0	26,7	16,0
158	7/11/13 11.00	-35,4	14,8	-190,2	14,5	-2,6	16,0	-88,7	13,8	24,3	15,8
159	12/11/13 10.00	-29,8	14,6	-181,7	14,2	3,1	15,8	-79,0	13,6	54,3	15,6
160	19/11/13 11.00	-30,6	14,2	-180,1	14,0	6,4	15,4	-77,3	13,4	55,9	15,4
161	3/12/13 12.00	-35,9	14,1	-178,5	13,8	-4,2	15,2	-89,1	13,1	45,4	15,2
162	10/12/13 11.00	-33,0	14,0	-172,8	13,6	1,5	15,0	-78,2	13,0	55,1	15,0
163	9/1/14 11.30	-27,3	13,8	-171,1	13,4	7,2	14,8	-72,5	12,8	60,8	14,8
164	13/1/14 10.30	-32,6	13,7	-181,7	13,2	0,7	14,6	-79,0	12,6	55,5	14,7
165	21/1/14 10.00	-44,4	13,4	-182,5	12,8	10,4	14,4	-93,6	12,4	46,2	14,6
166	4/2/14 11.00	-55,0	13,2	-199,6	12,4	12,0	14,2	-104,2	12,2	29,1	14,2
167	11/2/14 10.00	-40,3	13,4	-189,0	12,6	-6,7	14,0	-82,2	12,0	34,8	14,0
168	18/2/14 11.00	-42,0	13,6	-183,3	12,4	-0,1	14,2	-76,9	12,1	40,1	14,1
169	25/2/14 10.00	-39,1	13,5	-190,2	12,5	1,5	14,0	-74,1	12,0	42,9	14,0
170	4/3/14 10.00	-46,0	13,6	-193,9	12,2	9,6	14,0	-78,6	12,3	48,6	13,8
171	11/3/14 12.00	-44,4	13,4	-189,8	12,2	18,9	14,1	-76,9	12,1	57,9	13,9
172	18/3/14 11.00	-42,8	13,2	-196,3	12,0	21,8	14,0	-70,4	12,3	63,2	14,0
173	25/3/14 12.00	-49,3	13,0	-198,8	11,8	36,4	14,2	-73,3	12,4	51,4	13,7
174	3/4/14 11.00	-55,0	13,2	-203,3	12,1	29,5	14,3	-80,6	12,8	41,7	13,9
175	9/4/14 11.30	-66,3	13,6	-210,2	12,2	22,6	14,4	-85,1	13,1	36,0	14,1
176	18/4/14 10.30	-64,7	13,4	-220,7	12,0	37,2	14,6	-75,7	13,2	45,4	14,2
177	29/4/14 11.30	-70,4	13,6	-229,2	12,3	30,3	14,7	-81,4	13,4	51,0	14,0
178	8/5/14 11.00	-60,6	13,4	-232,1	12,4	25,0	14,6	-62,7	13,6	36,0	14,1
179	15/5/14 10.00	-59,0	13,2	-230,5	12,2	14,5	14,4	-56,2	13,8	29,1	14,2
180	20/5/14 11.00	-50,9	15,2	-176,4	14,3	2,7	16,1	-104,1	15,2	29,1	16,2
181	27/5/14 10.00	-85,8	15,0	-157,3	14,2	-13,5	16,1	-110,6	15,0	10,5	16,0
182	3/6/14 11.00	-107,7	15,2	-176,4	14,3	-19,2	16,3	-112,2	15,2	-5,8	16,0
183	10/6/14 11.00	-126,4	15,0	-139,0	14,7	-34,2	16,4	-134,2	15,4	-22,4	16,3
184	17/6/14 12.00	-128,5	15,5	-147,2	14,7	-49,3	16,5	-103,3	15,6	-18,4	16,3
185	24/6/14 11.00	-149,6	15,1	-168,3	14,3	-62,3	16,1	-120,4	15,2	-38,3	16,0
186	1/7/14 11.00	-164,6	15,2	-174,0	14,5	-57,0	16,2	-130,9	15,0	-44,0	16,2
187	8/7/14 10.00	-174,0	15,1	-168,3	14,3	-48,9	16,2	-136,2	14,9	-35,9	16,2
188	15/7/14 11.00	-180,9	15,2	-156,5	14,6	-42,4	16,4	-140,7	15,2	-25,3	16,4
189	24/7/14 11.00	-175,6	15,3	-161,8	14,5	-47,6	16,3	-137,8	15,1	-22,4	16,3
190	29/7/14 11.00	-182,5	15,4	-160,2	14,3	-57,4	16,5	-144,7	15,2	-24,1	16,5
191	19/8/14 11.00	-189,0	15,2	-167,1	14,4	-62,7	16,4	-150,0	15,1	-18,8	16,6
192	26/8/14 11.00	-183,7	15,3	-161,8	14,5	-69,6	16,5	-143,1	15,0	-17,2	16,4
193	2/9/14 14.00	-179,2	15,0	-158,9	14,4	-58,6	16,4	-141,5	14,8	-11,5	16,2
194	9/9/14 11.00	-180,9	15,2	-169,5	14,2	-69,2	16,2	-150,8	14,7	-14,3	16,3
195	16/9/14 11.00	-187,4	15,0	-180,1	14,0	-75,7	16,0	-158,6	14,4	-28,9	16,1
196	1/10/14 11.00	-180,1	14,6	-168,7	13,6	-68,4	15,6	-147,2	14,0	-26,9	15,6
197	14/10/14 11.00	-190,6	14,4	-179,3	13,4	-61,5	15,5	-154,1	14,1	-17,6	15,7
198	5/11/14 11.00	-187,8	14,3	-174,0	13,5	-66,7	15,4	-159,4	14,0	-13,1	15,4
199	19/11/14 11.00			-168,7	13,6	-73,3	15,2	-154,1	14,1	-19,6	15,2



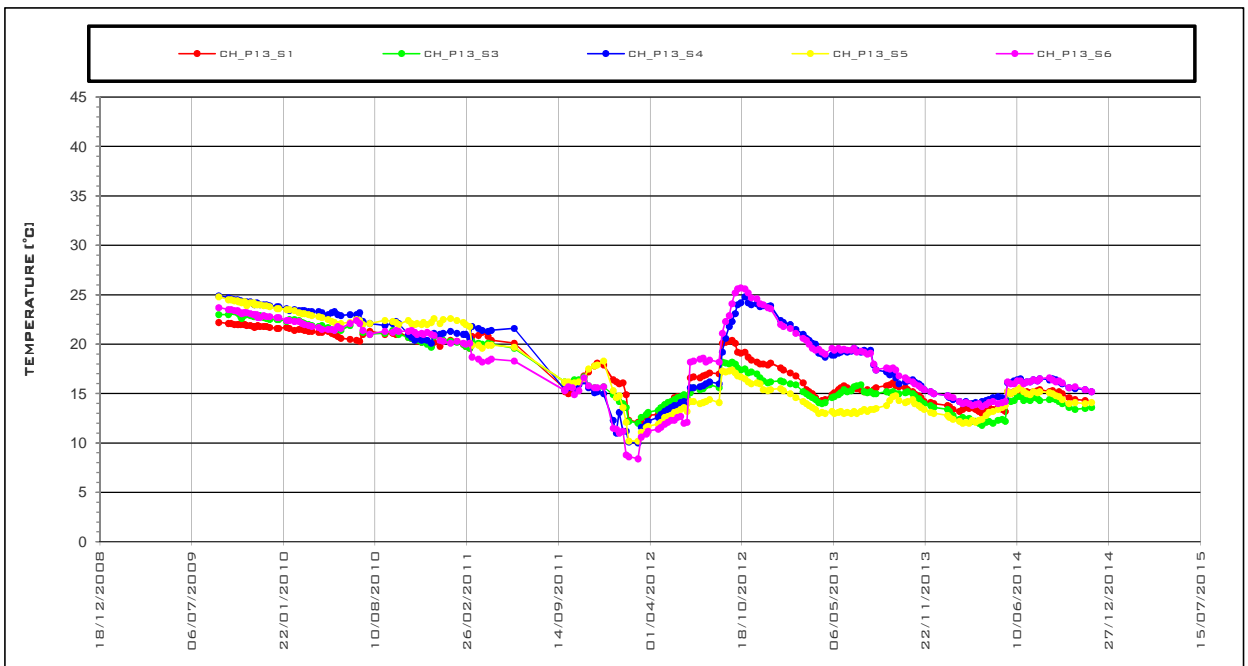
Ubicazione STAZIONE CHIAIA  
Opera \ \ P13  
Strumento Barretta Est. per Metallo  
Data posa in opera 03/09/2009  
Data lettura di zero 03/09/2009



**GRAFICO MICROSTRAIN**

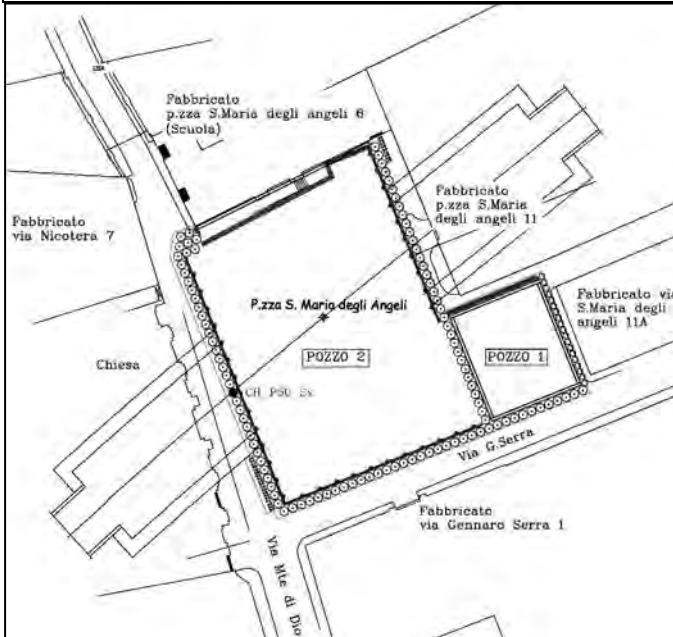


**GRAFICO TEMPERATURE**

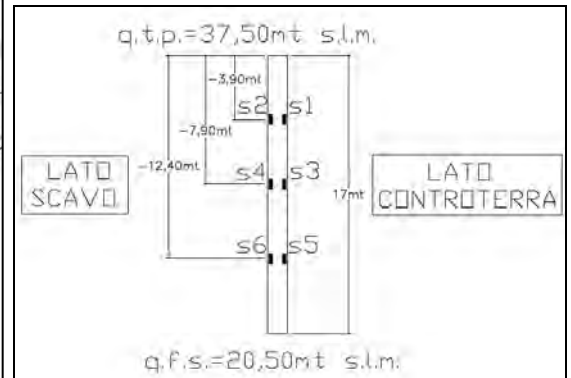


Pannello strumentato

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

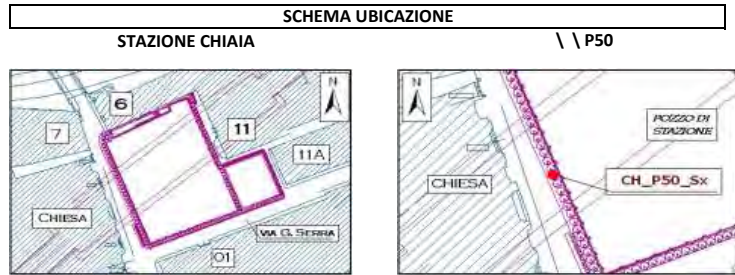
Data lettura di zero 03/09/2009

Ultima Misura 220 in data 19/11/2014

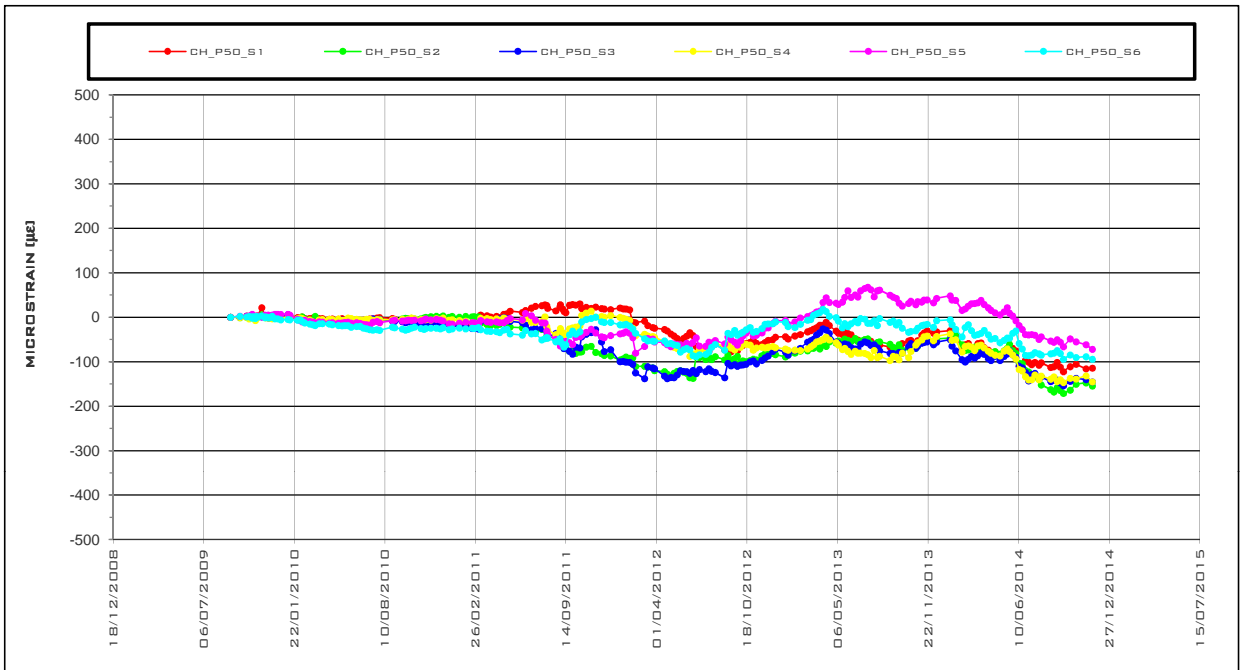
Letture n°	DATA	CH_P50_S1		CH_P50_S2		CH_P50_S3		CH_P50_S4		CH_P50_S5		CH_P50_S6	
		Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]
168	1/8/13 12.45	-67,9	15,2	-56,6	15,4	-68,4	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
178	29/10/13 11.30	-52,5	14,8	-64,7	15,4	-63,9	14,0	-56,6	13,2	35,2	15,2	-24,5	13,6
179	7/11/13 11.30	-39,9	14,5	-54,9	15,2	-58,2	13,8	-50,9	13,0	34,4	14,8	-18,8	13,4
180	12/11/13 11.00	-35,5	14,2	-49,3	15,0	-56,6	13,6	-43,6	12,6	38,9	14,5	-17,2	13,2
181	19/11/13 11.00	-29,8	14,0	-47,6	14,8	-55,0	13,4	-42,0	12,4	39,3	14,2	-15,6	13,0
182	3/12/13 12.00	-35,5	14,2	-58,2	14,6	-61,5	13,2	-52,6	12,2	32,8	14,0	-22,5	13,1
183	10/12/13 11.30	-32,6	14,1	-48,5	14,4	-55,8	13,0	-42,8	12,0	42,5	13,8	-7,5	13,0
184	9/1/14 11.00	-29,8	14,0	-46,8	14,2	-50,1	12,8	-37,1	11,8	48,2	13,6	-5,8	12,8
185	13/1/14 10.30	-36,7	14,1	-49,3	14,0	-64,7	12,6	-51,8	11,6	38,9	13,5	-16,4	12,6
186	21/1/14 11.30	-41,1	14,4	-36,3	14,4	-75,3	12,4	-50,1	11,4	38,0	13,1	-27,0	12,4
187	4/2/14 11.30	-67,2	13,6	-61,5	14,0	-95,2	12,1	-78,2	11,1	15,7	12,6	-44,0	12,0
188	11/2/14 11.00	-61,5	13,4	-74,5	13,6	-100,5	12,0	-65,6	10,8	18,9	12,2	-22,9	12,4
189	18/2/14 11.00	-58,6	13,3	-72,8	13,4	-94,0	12,2	-64,0	10,6	25,4	12,4	-16,4	12,6
190	25/2/14 10.00	-68,0	13,2	-71,2	13,2	-87,5	12,4	-66,8	10,7	30,7	12,5	-29,8	12,5
191	4/3/14 10.00	-69,6	13,4	-67,2	13,2	-91,6	12,4	-74,5	10,4	31,1	12,2	-40,4	12,3
192	11/3/14 12.00	-59,0	13,6	-74,1	13,3	-85,9	12,2	-64,0	10,6	32,7	12,0	-38,8	12,1
193	18/3/14 12.00	-57,4	13,4	-68,8	13,4	-80,2	12,0	-62,3	10,4	38,0	12,1	-35,9	12,0
194	25/3/14 12.00	-68,0	13,2	-79,3	13,2	-83,0	12,1	-68,8	10,2	28,7	12,0	-29,4	12,2
195	3/4/14 11.00	-73,7	13,4	-85,0	13,4	-92,8	12,3	-76,2	10,6	21,4	12,4	-39,2	12,4
196	9/4/14 11.30	-91,5	13,6	-79,7	13,5	-97,2	12,6	-80,6	10,9	15,7	12,6	-48,9	12,6
197	18/4/14 11.00	-78,1	13,7	-76,9	13,4	-87,5	12,4	-85,1	11,2	10,0	12,8	-47,3	12,4
198	29/4/14 11.00	-89,1	13,8	-82,6	13,6	-97,2	12,6	-86,7	11,4	5,5	13,1	-57,0	12,6
199	8/5/14 11.00	-80,6	13,5	-75,3	13,2	-87,9	12,7	-76,1	11,6	12,4	13,0	-51,7	12,7
200	15/5/14 10.00	-77,7	13,4	-69,6	13,0	-82,6	12,8	-70,9	11,7	21,8	13,1	-46,5	12,8
201	20/5/14 11.00	-67,2	13,6	-60,7	13,4	-74,9	13,1	-76,5	11,9	9,2	13,4	-46,9	13,1
202	27/5/14 11.00	-70,0	13,7	-74,5	13,6	-84,2	13,0	-84,7	11,9	2,7	13,2	-35,9	13,0
203	3/6/14 11.00	-75,3	13,6	-81,0	13,4	-89,9	13,2	-93,6	11,5	-7,9	13,0	-30,6	13,1
204	10/6/14 11.00	-109,8	14,1	-103,3	13,9	-109,8	13,9	-117,2	11,9	-18,4	13,8	-58,6	13,8
205	17/6/14 11.00	-111,8	14,6	-104,1	14,5	-113,5	14,6	-120,4	12,3	-27,3	14,4	-71,2	14,1
206	24/6/14 11.00	-96,4	15,2	-119,5	14,9	-123,6	15,1	-133,4	12,9	-38,7	14,8	-85,4	14,6
207	1/7/14 11.00	-100,8	15,5	-122,8	15,3	-143,1	15,5	-140,7	13,3	-39,5	15,4	-86,2	15,2
208	8/7/14 10.00	-106,5	15,7	-134,6	15,0	-128,5	15,7	-140,3	13,0	-38,7	15,8	-84,6	15,0
209	15/7/14 11.00	-101,2	15,8	-133,7	15,4	-126,0	15,9	-129,7	13,2	-40,3	16,0	-79,3	15,1
210	24/7/14 11.00	-107,7	15,6	-139,4	15,6	-136,6	15,7	-140,3	13,0	-49,7	15,9	-82,2	15,2
211	29/7/14 10.30	-102,1	15,4	-152,0	14,9	-133,8	15,6	-132,2	13,0	-44,0	15,7	-85,0	15,3
212	19/8/14 10.00	-112,6	15,2	-162,6	14,7	-144,3	15,4	-139,1	13,1	-53,3	15,6	-82,2	15,2
213	26/8/14 10.00	-111,0	15,0	-167,9	14,6	-141,5	15,3	-133,8	13,2	-56,2	15,7	-80,5	15,0
214	2/9/14 14.00	-101,3	14,8	-158,1	14,4	-141,1	15,0	-144,4	13,0	-50,5	15,5	-74,9	14,8
215	9/9/14 11.00	-111,8	14,6	-164,6	14,2	-147,6	14,8	-140,3	13,0	-55,8	15,4	-81,4	14,6
216	16/9/14 11.00	-122,4	14,4	-171,1	14,0	-154,1	14,6	-146,8	12,8	-66,3	15,2	-94,4	14,2
217	1/10/14 11.00	-111,0	14,0	-163,8	13,6	-143,9	14,1	-137,1	12,6	-48,5	15,0	-84,6	14,0
218	14/10/14 11.00	-105,3	13,8	-150,4	13,7	-137,0	14,0	-138,7	12,8	-55,0	14,8	-90,3	14,2
219	5/11/14 11.00	-115,9	13,6	-147,6	13,6	-139,9	14,1	-131,8	12,7	-61,5	14,6	-88,7	14,0
220	19/11/14 11.00	-114,3	13,4	-154,5	13,7	-145,2	14,0	-145,2	12,6	-72,0	14,4	-94,4	14,2



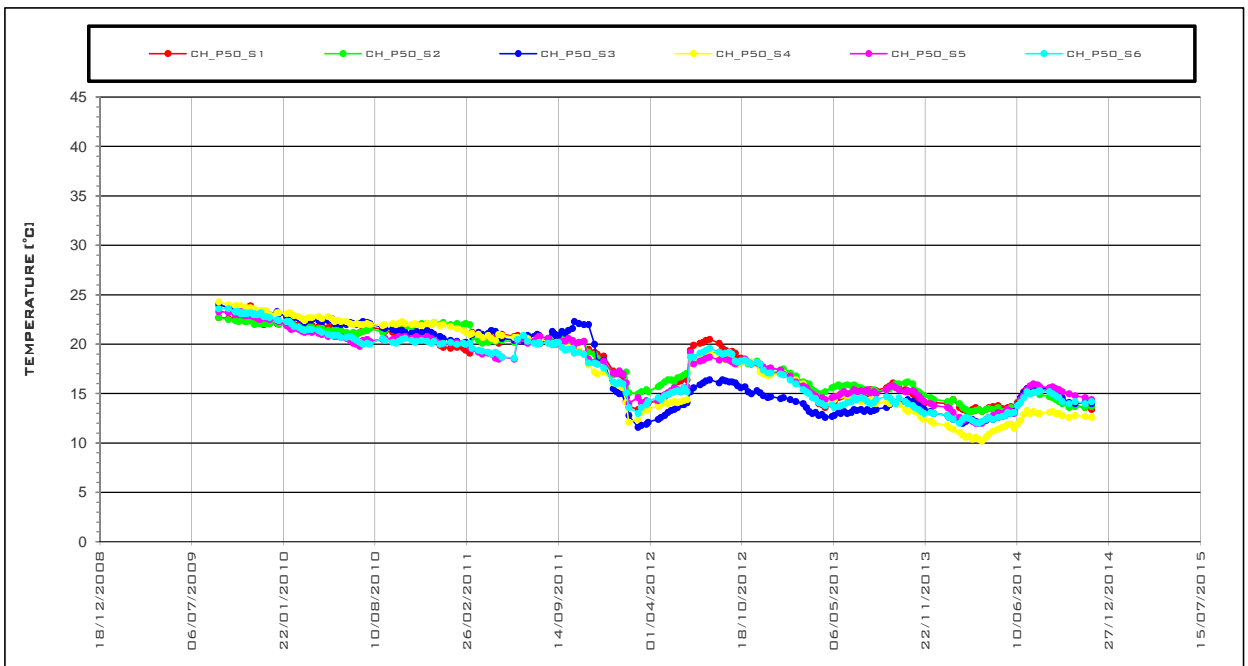
Ubicazione STAZIONE CHIAIA  
Opera \ \ P50  
Strumento Barretta Est. per Metallo  
Data posa in opera 03/09/2009  
Data lettura di zero 03/09/2009



**GRAFICO MICROSTRAIN**

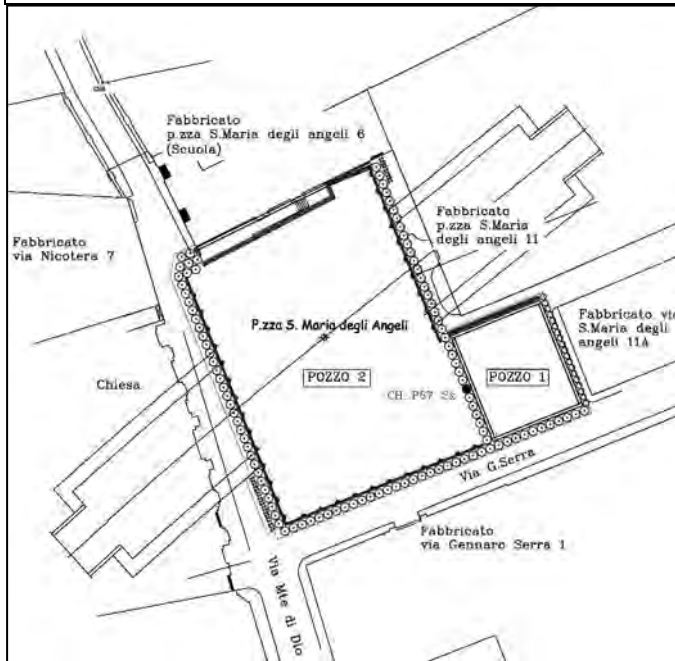


**GRAFICO TEMPERATURE**

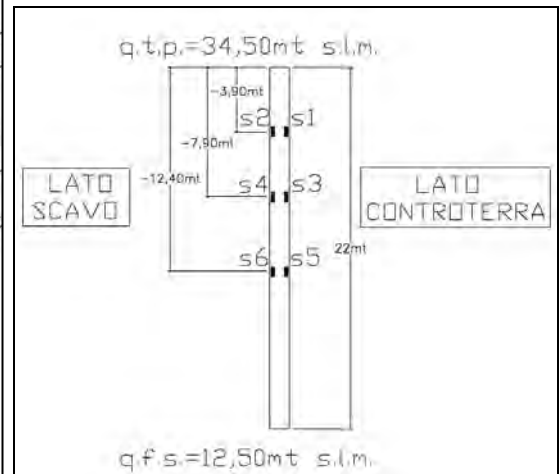


Pannello strumentato

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 224 in data 19/11/2014

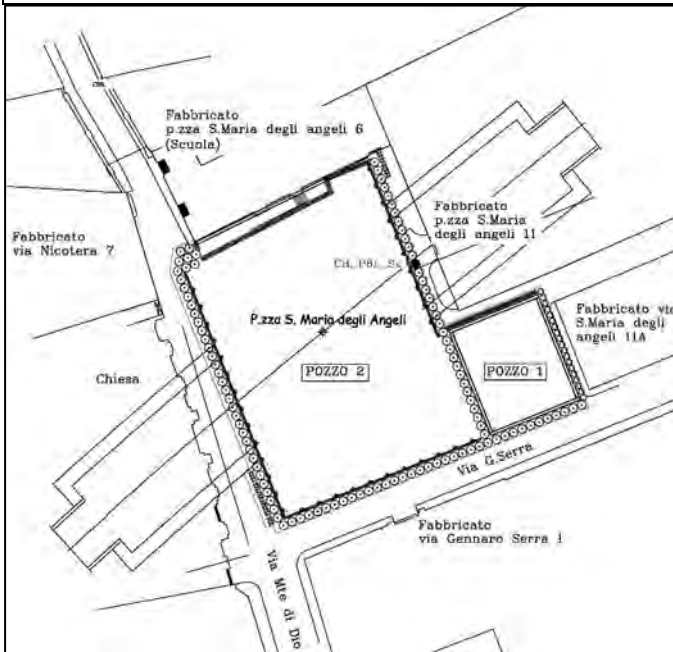
Letture n°	DATA	CH_P67_S1		CH_P67_S2		CH_P67_S3		CH_P67_S4		CH_P67_S5		CH_P67_S6	
		Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]
172	1/8/13 12.30			-168,3	13,4	-85,5	14,1	-161,8	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
182	29/10/13 11.30			-181,3	13,0	-97,7	14,1	-155,3	13,0	-16,0	15,8	-122,4	14,4
183	7/11/13 11.00			-167,5	12,8	-90,8	14,0	-149,7	12,8	-14,4	15,6	-120,8	14,2
184	12/11/13 11.30			-161,8	12,6	-85,1	13,8	-148,0	12,6	-11,1	15,2	-113,9	14,1
185	19/11/13 11.00			-159,0	12,5	-75,3	13,6	-146,4	12,4	-9,5	15,0	-111,1	14,0
186	3/12/13 12.00			-166,7	12,2	-81,8	13,4	-152,9	12,2	-24,1	14,8	-105,8	14,1
187	10/12/13 11.45			-161,0	12,0	-79,0	13,3	-147,2	12,0	-17,2	14,7	-108,2	13,9
188	9/1/14 11.00			-150,5	12,2	-72,1	13,2	-145,6	11,8	-10,3	14,6	-98,5	13,7
189	13/1/14 11.30			-160,2	12,4	-78,6	13,0	-155,0	11,7	-16,8	14,4	-107,8	13,6
190	21/1/14 11.00			-153,7	12,6	-69,2	13,1	-140,3	11,9	-23,3	14,2	-106,2	13,4
191	4/2/14 11.30			-164,3	12,4	-81,0	12,8	-152,1	11,6	-42,0	14,0	-122,0	13,1
192	11/2/14 11.00			-170,0	12,6	-78,2	12,7	-146,4	11,4	-31,4	14,2	-115,1	13,0
193	18/2/14 11.00			-168,3	12,4	-75,3	12,6	-152,9	11,2	-29,8	14,0	-118,0	13,1
194	25/2/14 10.00			-162,7	12,2	-73,7	12,4	-155,8	11,3	-35,5	14,2	-102,9	13,0
195	4/3/14 10.00			-173,6	12,3	-80,6	12,5	-158,6	11,4	-33,9	14,0	-96,4	13,2
196	11/3/14 12.00			-168,3	12,4	-79,0	12,3	-149,3	11,5	-28,6	14,1	-93,6	13,1
197	18/3/14 11.45			-162,7	12,2	-85,9	12,4	-144,0	11,6	-32,7	14,1	-86,7	13,0
198	25/3/14 12.00			-169,2	12,0	-80,2	12,2	-138,7	11,7	-25,8	14,0	-93,2	12,8
199	3/4/14 11.00			-174,9	12,2	-85,9	12,4	-144,4	11,9	-39,6	14,2	-97,7	13,1
200	9/4/14 11.30			-184,6	12,4	-90,4	12,7	-148,9	12,2	-45,2	14,4	-104,6	13,2
201	18/4/14 11.00			-178,9	12,2	-83,5	12,6	-151,7	12,3	-35,5	14,2	-99,3	13,3
202	29/4/14 11.00			-201,7	12,0	-77,8	12,4	-157,0	12,2	-33,9	14,0	-98,9	13,0
203	8/5/14 11.30			-206,1	12,3	-88,3	12,2	-171,6	12,0	-20,1	13,8	-105,8	13,1
204	15/5/14 11.00			-203,3	12,2	-86,7	12,0	-165,1	12,2	-27,0	13,9	-102,9	13,0
205	20/5/14 11.00			-210,6	12,6	-61,5	12,4	-144,0	12,6	-40,8	14,1	-76,5	13,5
206	27/5/14 11.00			-205,3	12,7	-76,6	12,5	-150,9	12,7	-37,9	14,0	-76,1	13,2
207	3/6/14 11.00			-216,3	12,8	-83,5	12,6	-160,6	12,9	-39,6	14,2	-86,7	13,0
208	10/6/14 11.00			-235,8	13,2	-108,2	12,9	-188,2	13,3	-64,7	14,8	-94,0	13,4
209	17/6/14 11.00			-237,8	13,7	-96,4	14,2	-190,3	13,8	-68,0	15,2	-96,0	13,9
210	24/6/14 11.00			-254,0	13,7	-118,0	14,1	-194,7	14,1	-84,2	15,2	-103,3	14,3
211	1/7/14 11.00			-267,8	13,9	-128,9	14,2	-205,7	14,2	-94,8	15,0	-109,0	14,5
212	8/7/14 10.00			-262,2	13,7	-131,8	14,3	-201,6	14,2	-101,7	15,1	-114,3	14,4
213	15/7/14 11.00			-271,9	13,9	-142,7	14,4	-191,1	14,4	-104,5	15,2	-103,7	14,6
214	24/7/14 11.00			-277,2	13,8	-141,1	14,2	-200,4	14,3	-98,9	15,0	-102,1	14,4
215	29/7/14 10.30			-271,5	13,6	-135,4	14,0	-207,3	14,4	-97,6	15,1	-96,4	14,2
216	19/8/14 10.30			-280,9	13,5	-134,2	14,1	-205,7	14,2	-107,0	15,0	-102,9	14,0
217	26/8/14 10.30			-278,0	13,4	-137,1	14,2	-200,4	14,3	-92,4	15,2	-92,4	14,2
218	2/9/14 14.00			-268,3	13,2	-139,9	14,3	-191,1	14,4	-86,7	15,0	-98,9	14,0
219	9/9/14 11.00			-278,8	13,0	-139,5	14,0	-203,3	14,4	-102,9	14,0	-101,7	14,1
220	16/9/14 11.00			-289,4	12,8	-148,8	13,9	-212,2	14,0	-117,6	13,8	-111,1	14,0
221	1/10/14 11.00			-283,7	12,6	-140,3	13,6	-209,0	13,6	-96,8	13,5	-99,7	13,6
222	14/10/14 11.00			-286,5	12,7	-143,2	13,7	-202,0	13,5	-91,6	13,6	-90,3	13,7
223	5/11/14 11.00			-279,6	12,6	-133,8	13,8	-207,7	13,7	-102,1	13,4	-88,7	13,5
224	19/11/14 11.00			-281,3	12,8	-140,3	13,6	-206,1	13,5	-100,5	13,2	-79,4	13,6



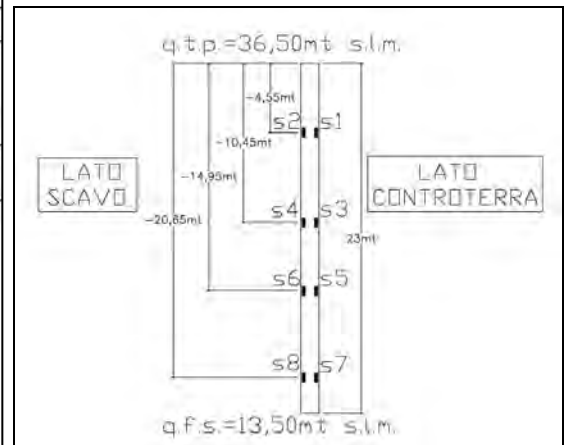


Pannello strumentato

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.

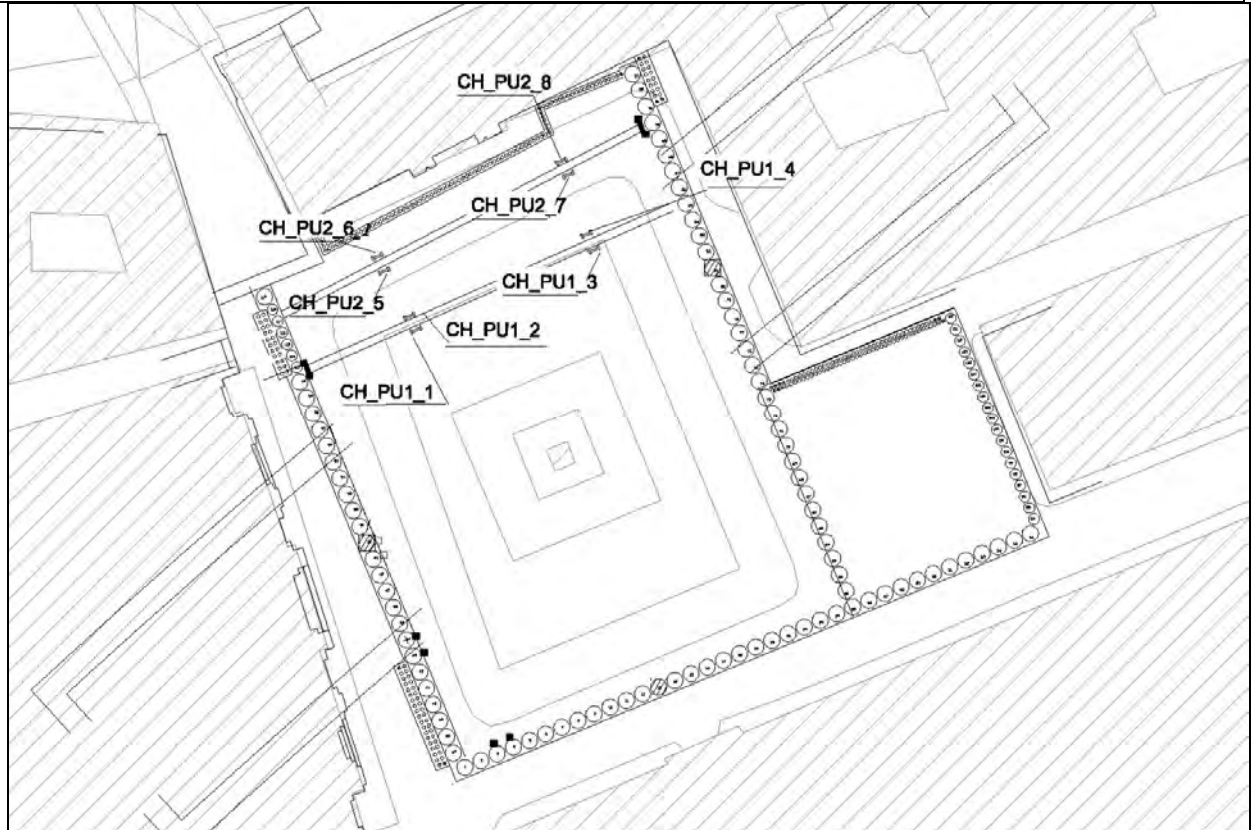
La barretta estensimetrica a c.v. CH\_P81\_S4 dalla data 25/03/10 non restituisce segnale

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

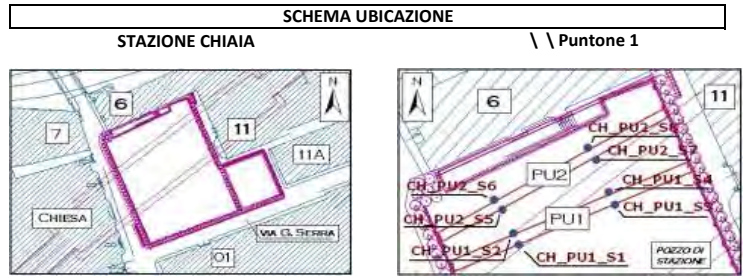
Data lettura di zero 14/09/2011

Ultima Misura 134 in data 19/11/2014

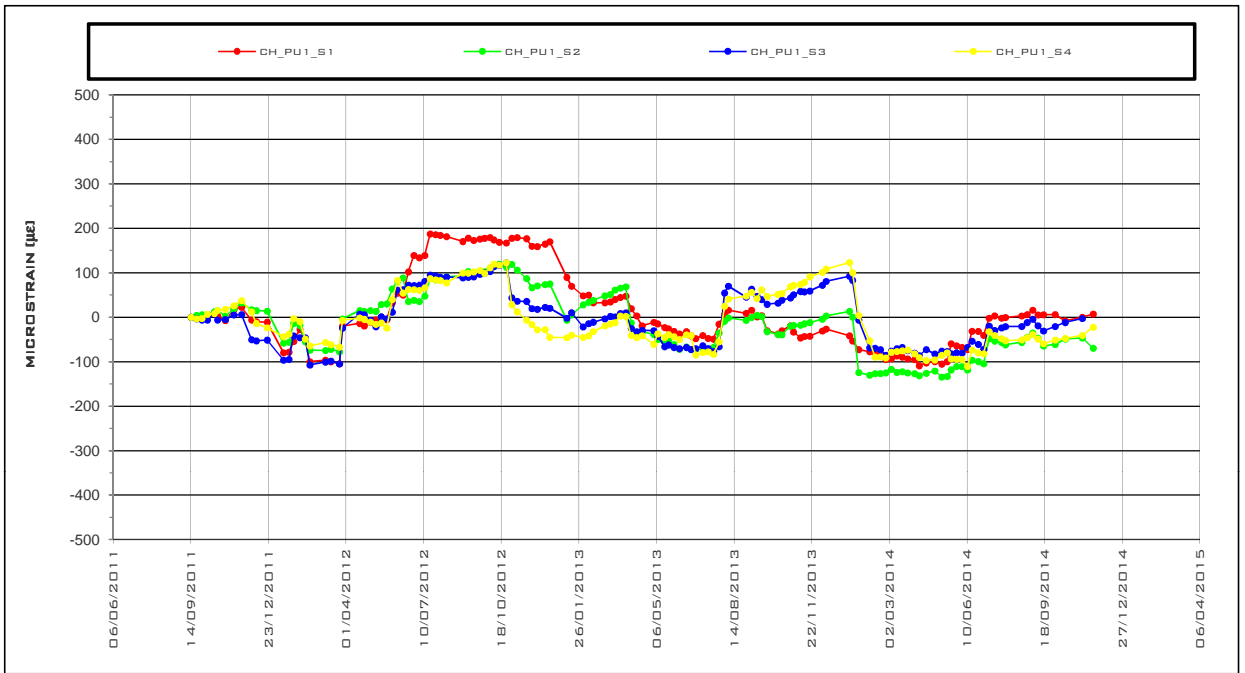
Letture n°	DATA	CH_PU1_S1		CH_PU1_S2		CH_PU1_S3		CH_PU1_S4	
		Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]
82	1/8/13 12.45	5,8	27,3	-8,8	26,9	54,6	28,3	24,9	26,0
83	6/8/13 11.45	16,0	28,8	-1,1	28,2	70,0	28,9	41,2	28,0
84	29/8/13 11.00	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
92	29/10/13 11.30	-33,2	22,1	-18,2	21,8	50,8	22,0	72,0	21,2
93	7/11/13 11.00	-46,2	21,7	-17,8	21,5	58,1	21,6	74,0	20,7
94	12/11/13 11.30	-43,0	21,3	-14,6	21,1	57,3	21,2	78,4	20,4
95	19/11/13 11.00	-42,6	21,0	-11,7	21,0	58,9	21,0	91,0	20,1
96	5/12/13 14.00	-30,8	20,3	-4,4	20,6	71,9	20,4	101,2	19,6
97	10/12/13 12.30	-26,4	20,0	2,9	20,2	80,9	19,8	108,5	19,2
98	9/1/14 12.30	-41,4	18,1	13,4	19,4	92,6	19,1	123,1	18,4
99	13/1/14 12.00	-53,2	17,8	0,4	19,0	83,3	19,0	100,3	18,2
100	21/1/14 11.30	-72,7	15,2	-124,3	15,1	-6,5	17,3	4,0	16,3
101	4/2/14 11.00	-77,2	14,5	-130,0	14,3	-68,7	15,2	-52,8	15,3
102	11/2/14 11.30	-79,3	14,0	-126,8	13,9	-69,5	14,8	-89,4	14,3
103	18/2/14 11.00	-87,0	13,7	-126,4	13,6	-72,8	14,2	-89,0	14,0
104	25/2/14 10.00	-94,7	13,4	-124,8	13,4	-85,4	13,5	-91,4	13,8
105	4/3/14 10.00	-93,1	13,2	-117,0	13,7	-76,0	13,6	-78,4	14,2
106	11/3/14 12.00	-86,6	13,4	-123,9	13,8	-70,7	13,7	-76,8	14,0
107	18/3/14 11.30	-89,4	13,5	-122,3	13,6	-67,9	13,6	-75,2	13,8
108	25/3/14 12.00	-93,5	13,5	-125,2	13,7	-74,8	13,7	-73,6	13,6
109	3/4/14 11.00	-95,1	13,7	-126,8	13,9	-80,5	13,9	-82,1	13,9
110	9/4/14 12.00	-108,9	13,9	-131,2	14,2	-86,2	14,1	-90,6	14,2
111	18/4/14 11.00	-102,4	14,1	-126,0	14,3	-72,8	14,2	-97,1	14,0
112	29/4/14 11.30	-99,6	14,0	-120,7	14,4	-82,5	14,4	-95,9	14,1
113	8/5/14 11.00	-105,3	14,2	-134,5	14,6	-76,0	14,6	-85,3	14,3
114	15/5/14 10.00	-99,6	14,0	-132,9	14,4	-76,8	14,2	-79,7	14,1
115	20/5/14 11.00	-59,3	16,3	-118,2	16,6	-81,7	16,8	-93,4	16,3
116	27/5/14 11.00	-64,2	16,9	-110,5	16,9	-79,6	17,3	-94,2	16,9
117	3/6/14 11.00	-67,4	17,3	-110,9	17,2	-80,4	17,9	-95,0	17,5
118	10/6/14 11.00	-72,3	17,9	-118,6	17,9	-67,4	18,3	-110,5	17,9
119	16/6/14 11.00	-31,3	18,6	-96,3	18,4	-53,6	19,1	-73,5	18,6
120	24/6/14 11.00	-31,7	18,9	-99,5	18,8	-60,9	19,5	-80,0	19,4
121	1/7/14 10.00	-40,6	19,5	-104,4	19,4	-72,3	19,9	-82,0	19,9
122	8/7/14 10.30	-1,9	26,0	-47,8	25,7	-19,8	26,2	-32,4	26,3
123	15/7/14 11.30	3,4	26,1	-53,5	25,9	-29,5	26,4	-40,9	26,6
124	24/7/14 11.30	-1,9	26,0	-56,3	26,0	-23,8	26,2	-47,8	26,7
125	29/7/14 11.30	-0,3	26,8	-62,0	27,2	-21,0	27,1	-52,7	27,3
126	19/8/14 11.00	3,0	26,4	-56,3	27,0	-20,6	26,8	-50,6	26,8
127	26/8/14 11.00	6,2	26,0	-45,0	26,6	-11,7	26,2	-45,8	26,2
128	2/9/14 14.00	16,0	25,8	-35,2	26,4	-4,4	25,8	-38,5	25,8
129	9/9/14 11.00	5,4	25,6	-47,0	26,1	-19,0	25,6	-49,0	25,6
130	16/9/14 12.00	5,8	25,3	-64,5	25,0	-30,8	25,3	-59,6	25,4
131	1/10/14 12.00	6,2	25,0	-61,2	24,6	-20,6	24,8	-51,1	25,1
132	14/10/14 12.00	-7,6	24,2	-49,0	24,6	-11,7	24,2	-47,4	24,4
133	5/11/14 11.00	0,1	23,5	-46,6	23,8	-2,8	23,6	-40,9	23,6
134	19/11/14 13.30	7,4	23,1	-69,4	21,6			-22,3	22,8



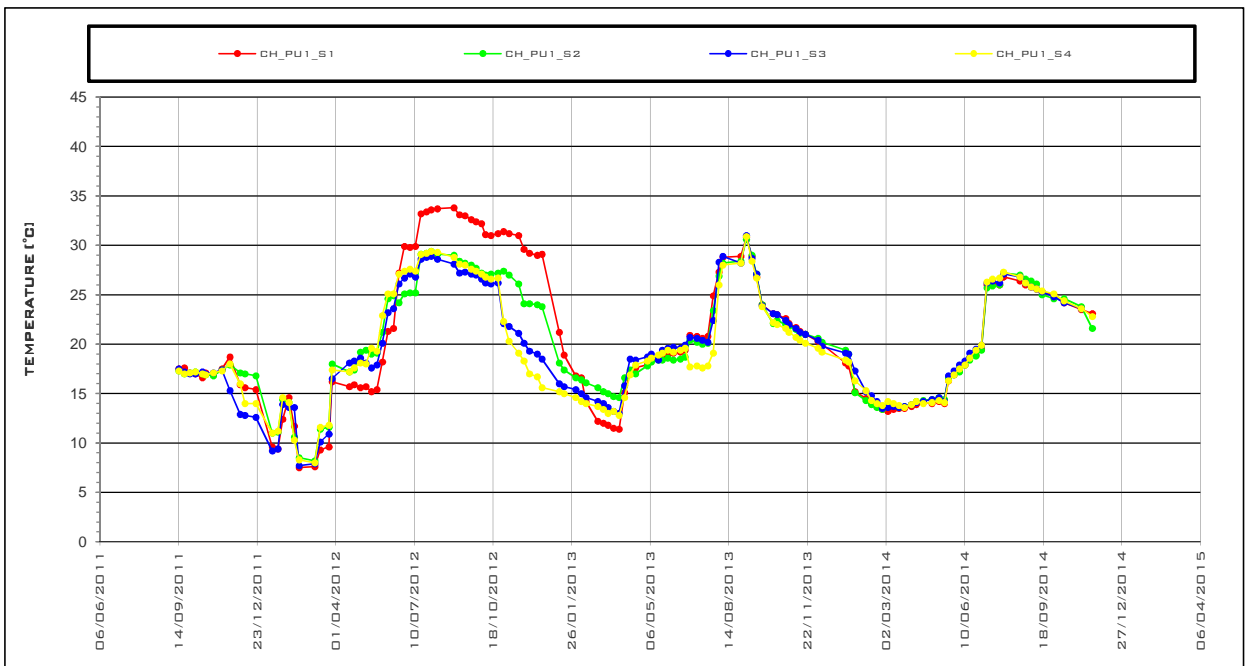
Ubicazione STAZIONE CHIAIA  
Opera \ \ Puntone 1  
Strumento Barretta Est. per Metallo  
Data posa in opera 14/09/2011  
Data lettura di zero 14/09/2011



**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 135 in data 19/11/2014

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]
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
93	29/10/13 11.30	-80,8	21,8			30,9	21,8	-47,1	21,0	75,2	22,4
94	7/11/13 11.00	-76,3	21,5			35,4	21,5	-42,6	20,7	82,5	22,0
95	12/11/13 11.30	-66,2	21,0			42,7	21,1	-35,3	20,3	89,8	21,6
96	19/11/13 11.00	-76,7	20,8			45,5	21,0	-34,9	20,0	91,4	21,4
97	5/12/13 14.00	-75,9	20,2			56,1	20,2	-17,9	19,4	112,6	20,8
98	10/12/13 12.30	-69,8	19,7			65,0	19,6	-10,6	19,0	130,8	20,3
99	9/1/14 12.30	-52,8	19,1			84,9	18,9	8,1	18,2	148,7	19,1
100	13/1/14 12.00	-68,6	18,8			74,3	18,7	-2,4	18,0	135,7	18,7
101	21/1/14 11.30	-93,5	16,1			7,7	16,9	-71,9	16,3	30,4	16,4
102	4/2/14 11.00	-90,6	16,0			-57,7	15,2	-133,3	14,6	-37,0	15,2
103	11/2/14 11.30	-93,5	16,1			-78,5	14,5	-126,4	14,5	-86,2	14,5
104	18/2/14 11.00	-97,5	16,1			-89,8	13,9	-138,2	14,2	-61,4	14,2
105	25/2/14 10.00	-90,6	16,0			-104,1	13,4	-132,5	14,0	-56,1	14,3
106	4/3/14 10.00	-100,4	16,2			-100,8	13,0	-143,0	13,8	-65,5	14,2
107	11/3/14 12.00	-103,6	15,6			-102,9	12,5	-139,0	13,8	-70,7	14,1
108	18/3/14 11.30	-90,6	16,0			-121,1	12,0	-137,4	13,6	-76,0	14,0
109	25/3/14 12.00	-102,0	15,4			-122,0	11,6	-147,9	13,4	-83,7	13,7
110	3/4/14 11.00	-86,1	15,7			-133,3	12,0	-153,6	13,6	-92,3	14,0
111	9/4/14 12.00	-84,9	15,8			-140,6	12,4	-162,1	13,9	-106,1	14,2
112	18/4/14 11.00	-79,2	15,6			-151,2	12,2	-152,4	13,7	-111,4	14,1
113	29/4/14 11.30	-89,8	15,4			-155,7	12,5	-144,7	14,0	-121,1	14,3
114	8/5/14 11.00	-107,7	15,6			-167,0	12,9	-157,3	14,3	-126,8	14,5
115	15/5/14 10.00	-94,3	15,7			-160,5	13,1	-170,7	14,2	-121,1	14,3
116	20/5/14 11.00	-120,7	17,2			-44,7	15,6	-132,0	16,7	-58,1	16,8
117	27/5/14 11.00	-120,2	17,9			-41,5	16,2	-128,8	17,3	-57,7	17,5
118	3/6/14 11.00	-111,3	18,3			-41,1	16,9	-141,8	17,9	-62,6	18,1
119	10/6/14 11.00	-121,4	18,8			-47,1	17,4	-134,4	18,5	-58,1	18,8
120	16/6/14 11.00	-101,9	19,4			-17,9	17,8	-101,5	19,2	-22,7	19,7
121	24/6/14 11.00	-112,1	19,9			-36,2	18,3	-110,5	19,8	-39,8	20,3
122	1/7/14 10.00	-111,3	20,3			-38,2	18,8	-110,0	20,5	-52,4	20,6
123	8/7/14 10.30	-76,7	25,8			-7,2	24,0	-73,8	25,8	-28,3	24,9
124	15/7/14 11.30	-87,6	25,9			-11,7	24,3	-84,8	25,9	-35,2	25,0
125	24/7/14 11.30	-94,5	26,0			-2,8	24,7	-78,3	26,1	-35,6	25,3
126	29/7/14 11.30	-91,7	26,9			5,8	26,4	-81,1	27,2	-25,5	26,8
127	19/8/14 11.00	-88,4	26,5			6,2	26,1	-77,9	26,8	-15,7	26,6
128	26/8/14 11.00	-105,5	26,1			-12,5	25,9	-97,4	26,2	-14,9	26,0
129	2/9/14 14.00	-105,1	25,8			-6,4	25,4	-107,9	26,0	-11,7	25,6
130	9/9/14 11.00	-115,7	25,6			-4,8	25,2	-98,2	25,8	-10,1	25,4
131	16/9/14 12.00	-126,2	25,4			-15,3	25,0	-119,3	25,4	-20,6	25,2
132	1/10/14 12.00	-114,9	25,0			-8,0	24,6	-110,8	25,1	-18,6	24,7
133	14/10/14 12.00	-104,7	24,5			-2,0	24,1	-101,9	24,5	-5,6	24,1
134	5/11/14 11.00	-91,7	23,9			4,1	23,6	-94,2	23,8	-0,7	23,5
135	19/11/14 13.30	-138,5	22,4			6,2	23,1	-78,3	23,1	9,4	23,0

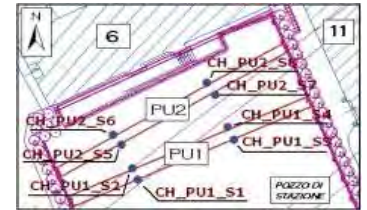
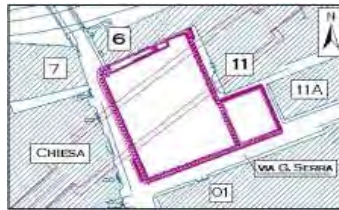


Ubicazione STAZIONE CHIAIA  
Opera \ \ Puntone 2  
Strumento Barretta Est. per Metallo  
Data posa in opera 14/09/2011  
Data lettura di zero 14/09/2011

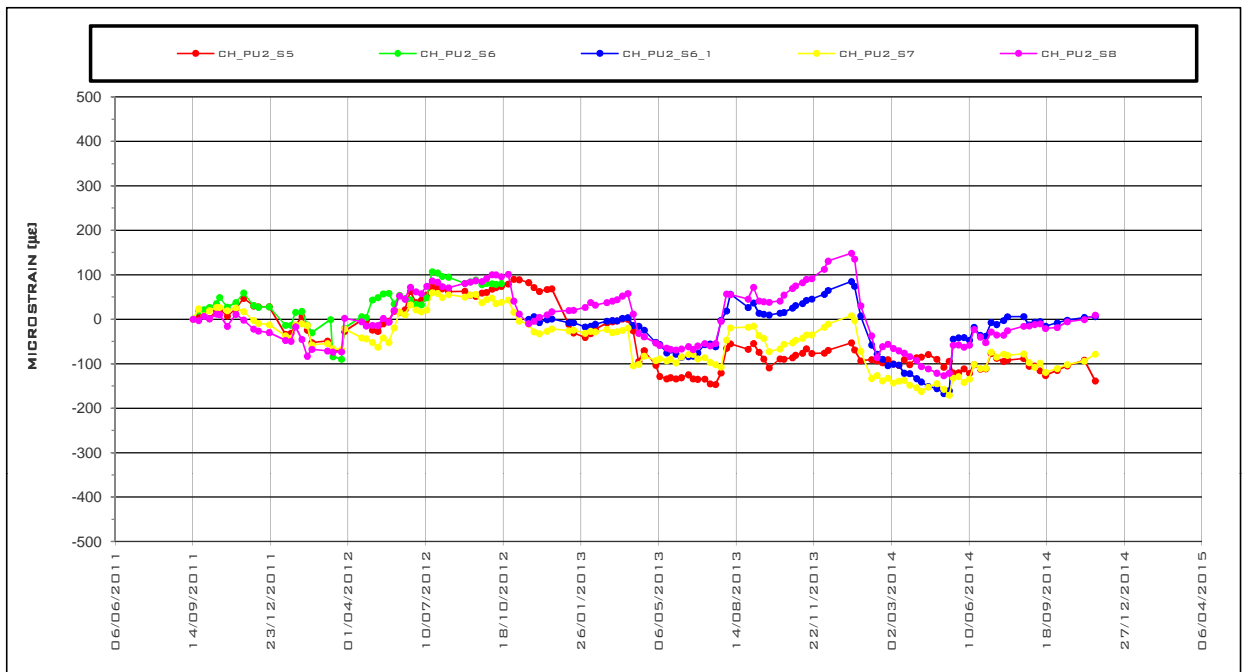
**SCHEMA UBICAZIONE**

**STAZIONE CHIAIA**

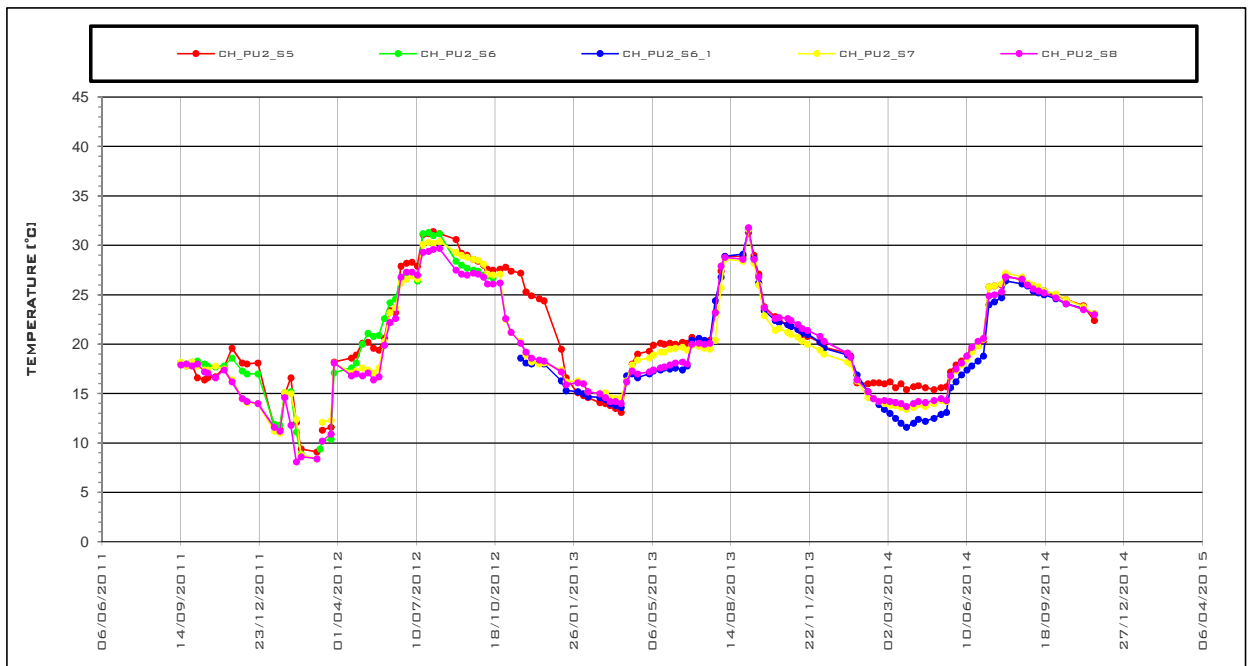
**\ \ Puntone 2**




**GRAFICO MICROSTRAIN**



**GRAFICO TEMPERATURE**



 <p><b>Ansaldo STS</b> A Finmeccanica Company</p>	<p><b>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</b></p> <p><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO</i> <i>REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C I 37 Data: 28/11/14 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><b>Ansaldo STS</b> A Finmeccanica Company</p>	<p><b>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</b></p> <p><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C I 37 Data: 28/11/14 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

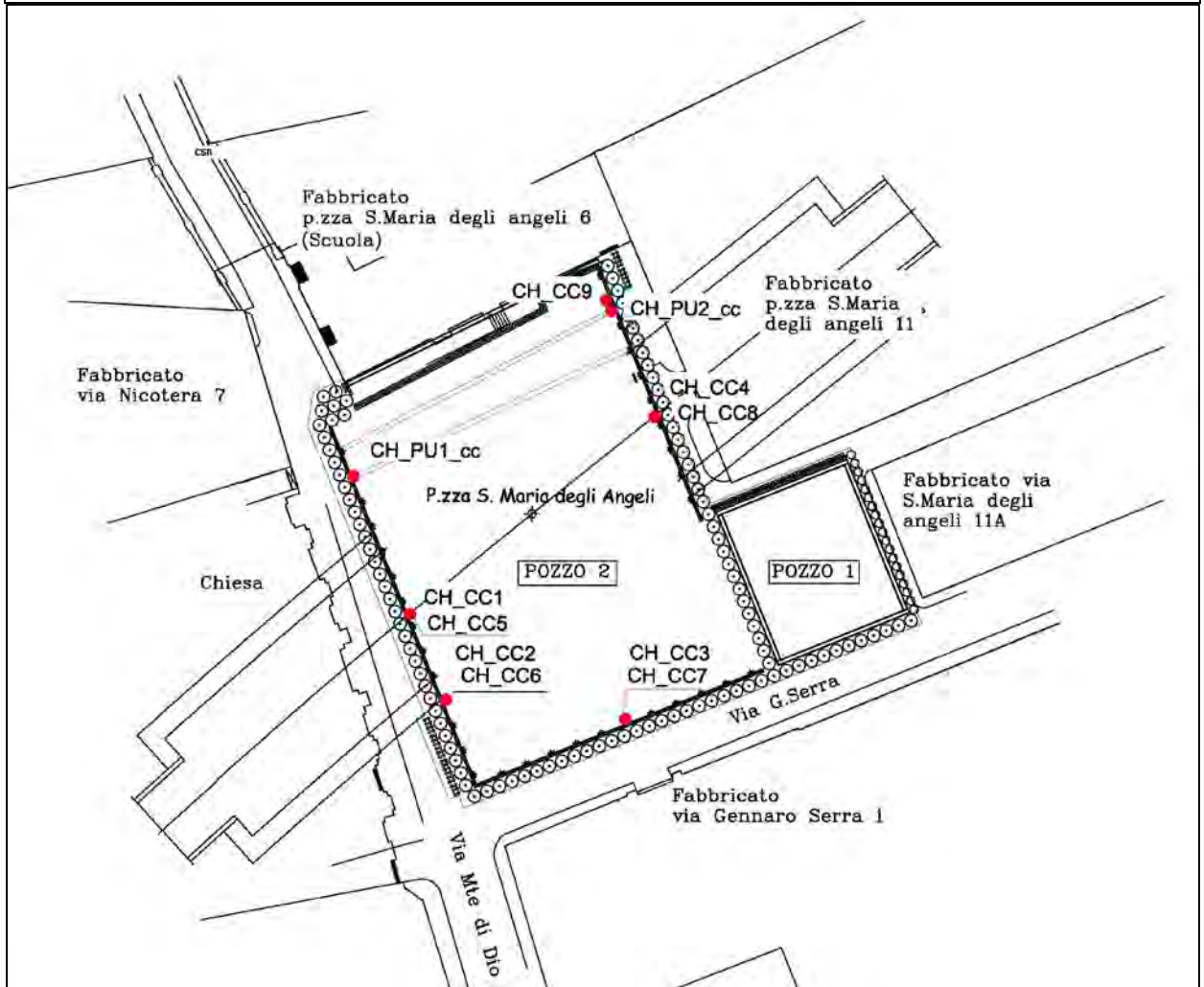
NOME	TIPOLOGIA STRUMENTO	DATA INSTALLAZIONE	DISPONIBILITA' LETTURA			NOTE
			DATA LETTURA DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
<b>SECONDO ORDINE DI TIRANTI</b>						
CH_CC5	CC. TOROIDALI	02/08/11	02/08/11			
CH_CC6	CC. TOROIDALI	02/08/11	02/08/11			
CH_CC7	CC. TOROIDALI	16/05/11	19/07/11			
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'	
<b>PUNTONI</b>						
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**

162

**in data**

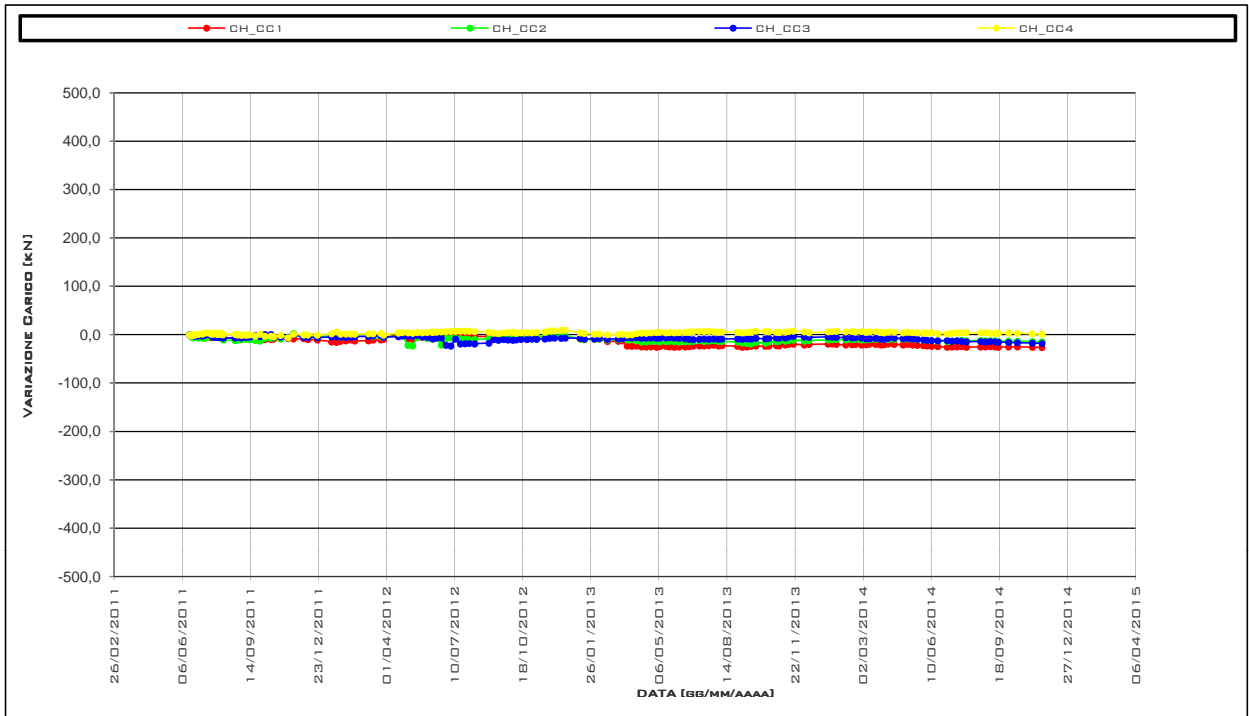
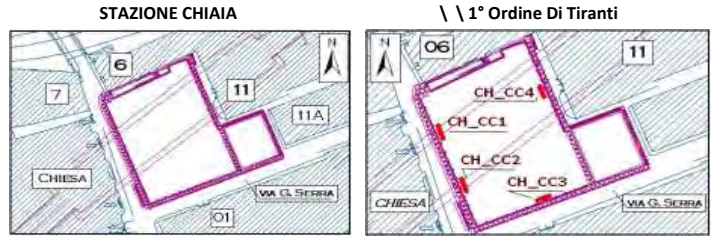
19/11/2014

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]
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
121	29/10/2013 11.00	-23,00	277,97	-13,51	286,58	-7,00	322,53	4,50	290,38
122	07/11/2013 11.00	-21,00	279,97	-13,01	287,08	-6,50	323,03	5,50	291,38
123	12/11/2013 10.30	-20,00	280,97	-12,01	288,08	-4,50	325,03	6,50	292,38
124	19/11/2013 11.00	-19,50	281,47	-11,01	289,08	-3,50	326,03	7,50	293,38
125	05/12/2013 11.00	-21,00	279,97	-13,01	287,08	-4,50	325,03	6,00	291,88
126	12/12/2013 10.30	-20,00	280,97	-12,01	288,08	-5,50	324,03	4,00	289,88
127	09/01/2014 11.00	-19,50	281,47	-10,51	289,58	-4,50	325,03	6,00	291,88
128	15/01/2014 10.30	-19,00	281,97	-10,01	290,08	-5,00	324,53	6,50	292,38
129	21/01/2014 11.00	-20,00	280,97	-9,51	290,58	-5,50	324,03	7,00	292,88
130	04/02/2014 11.30	-21,00	279,97	-10,51	289,58	-6,00	323,53	6,00	291,88
131	13/02/2014 11.00	-20,50	280,47	-10,01	290,08	-6,50	323,03	6,50	292,38
132	18/02/2014 11.00	-20,00	280,97	-9,51	290,58	-6,00	323,53	5,50	291,38
133	27/02/2014 11.00	-21,00	279,97	-11,01	289,08	-7,00	322,53	6,50	292,38
134	06/03/2014 11.00	-20,50	280,47	-10,51	289,58	-8,50	321,03	5,50	291,38
135	11/03/2014 12.00	-19,50	281,47	-10,01	290,08	-8,00	321,53	6,00	291,88
136	20/03/2014 11.00	-20,00	280,97	-9,51	290,58	-7,50	322,03	6,50	292,38
137	27/03/2014 14.00	-21,00	279,97	-9,00	291,08	-8,50	321,03	5,00	290,88
138	01/04/2014 10.30	-20,50	280,47	-8,50	291,58	-9,50	320,03	4,00	289,88
139	07/04/2014 12.00	-19,50	281,47	-10,01	290,08	-7,50	322,03	5,50	291,38
140	16/04/2014 12.00	-20,00	280,97	-9,51	290,58	-7,00	322,53	5,00	290,88
141	29/04/2014 11.00	-21,00	279,97	-9,00	291,08	-8,00	321,53	4,00	289,88
142	06/05/2014 11.00	-20,00	280,97	-8,50	291,58	-7,50	322,03	5,00	290,88
143	13/05/2014 11.00	-21,00	279,97	-9,51	290,58	-8,50	321,03	4,50	290,38
144	20/05/2014 11.00	-22,00	278,97	-10,01	290,08	-9,50	320,03	4,00	289,88
145	29/05/2014 11.00	-22,50	278,47	-11,01	289,08	-10,50	319,03	3,50	289,38
146	03/06/2014 11.00	-23,00	277,97	-11,51	288,58	-11,50	318,03	4,00	289,88
147	10/06/2014 11.00	-24,00	276,97	-12,01	288,08	-12,00	317,53	4,00	289,88
148	19/06/2014 11.00	-24,50	276,47	-13,01	287,08	-12,50	317,03	2,50	288,38
149	03/07/2014 11.00	-26,00	274,97	-14,01	286,07	-12,00	317,53	2,00	287,88
150	10/07/2014 11.00	-25,50	275,47	-13,01	287,08	-13,50	316,03	3,00	288,88
151	17/07/2014 11.00	-25,00	275,97	-12,01	288,08	-13,00	316,53	4,00	289,88
152	24/07/2014 11.00	-24,50	276,47	-11,51	288,58	-13,50	316,03	4,50	290,38
153	31/07/2014 12.00	-26,00	274,97	-12,51	287,58	-14,50	315,03	4,00	289,88
154	21/08/2014 12.00	-25,50	275,47	-12,01	288,08	-14,00	315,53	4,00	289,88
155	28/08/2014 12.00	-25,00	275,97	-12,51	287,58	-15,00	314,53	4,50	290,38
156	04/09/2014 11.00	-24,50	276,47	-13,01	287,08	-14,00	315,53	3,00	288,88
157	11/09/2014 11.00	-25,00	275,97	-12,51	287,58	-14,50	315,03	2,50	288,38
158	16/09/2014 10.00	-26,00	274,97	-14,01	286,07	-15,50	314,03	3,00	288,88
159	01/10/2014 10.00	-25,50	275,47	-13,01	287,08	-16,00	313,53	3,50	289,38
160	14/10/2014 10.00	-25,00	275,97	-13,51	286,58	-16,50	313,03	3,00	288,88
161	05/11/2014 10.00	-26,00	274,97	-14,01	286,07	-17,50	312,03	2,00	287,88
162	19/11/2014 10.00	-26,50	274,47	-14,51	285,57	-18,00	311,53	1,00	286,88



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

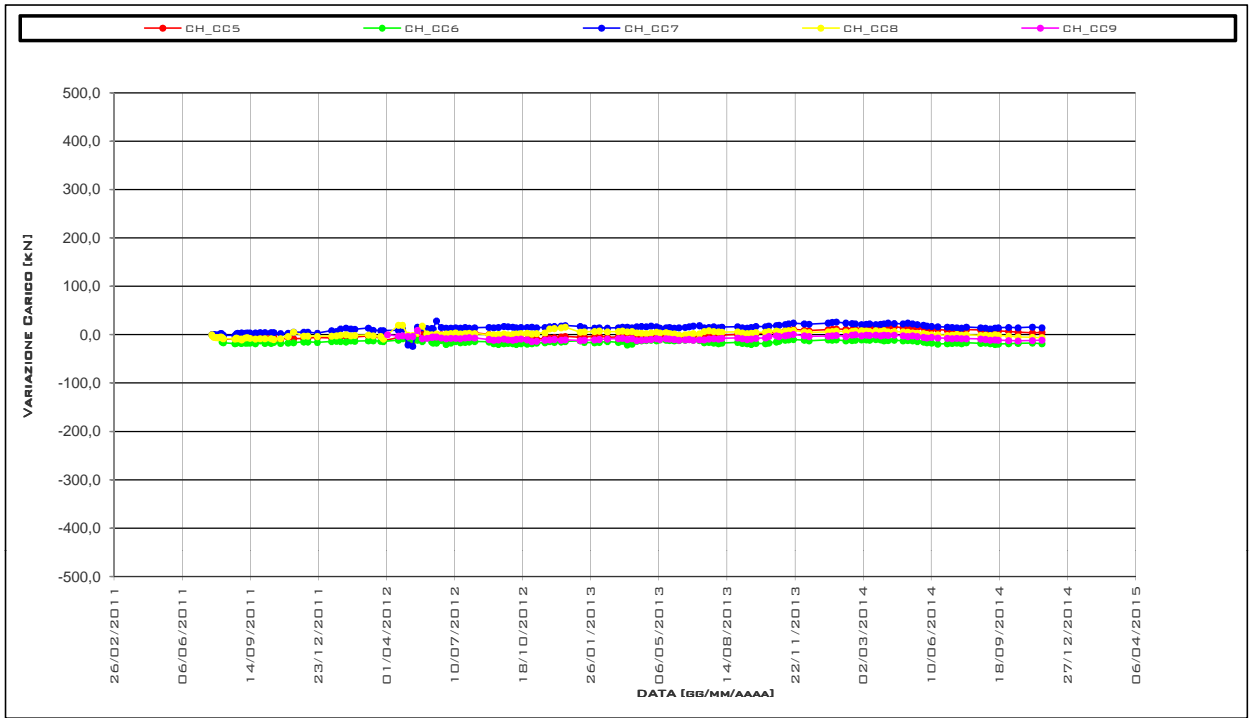
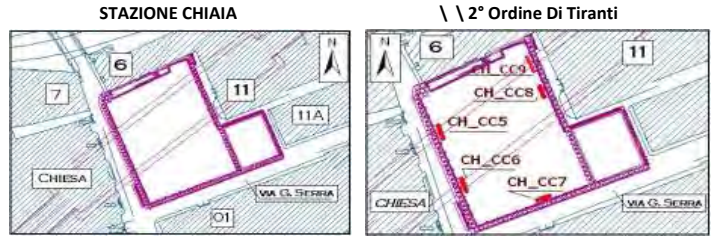
**Ultima misura** 154 in data 19/11/2014

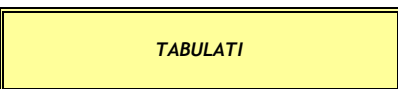
Letture n°	DATA	CH_CC5		CH_CC6		CH_CC7		CH_CC8		CH_CC9	
		Δ Carico [kN]	Carico [kN]	Δ Carico [kN]	Carico [kN]	Δ Carico [kN]	Carico [kN]	Δ Carico [kN]	Carico [kN]	Δ Carico [kN]	Carico [kN]
101	18/07/2013 10.00	0,75	539,81	-15,75	507,21	15,00	496,43	8,25	369,59	-9,00	392,25
102	25/07/2013 11.00	1,50	540,56	-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
113	29/10/2013 10.30	5,25	544,31	-13,50	509,46	19,50	500,93	6,00	367,34	-3,75	397,50
114	07/11/2013 10.30	8,25	547,31	-11,25	511,71	21,00	502,43	7,50	368,84	-2,25	399,00
115	12/11/2013 10.30	9,75	548,81	-10,50	512,46	22,50	503,93	8,25	369,59	-0,75	400,50
116	19/11/2013 11.00	11,25	550,31	-9,75	513,21	24,00	505,43	9,00	370,34	0,75	402,00
117	05/12/2013 10.00	9,00	548,06	-11,25	511,71	22,50	503,93	6,00	367,34	-2,25	399,00
118	12/12/2013 10.30	8,25	547,31	-12,75	510,21	21,75	503,18	4,50	365,84	-3,75	397,50
119	09/01/2014 11.00	10,50	549,56	-10,50	512,46	24,00	505,43	6,00	367,34	-3,00	398,25
120	15/01/2014 10.30	11,25	550,31	-11,25	511,71	25,50	506,93	6,75	368,09	-2,25	399,00
121	21/01/2014 11.30	12,00	551,06	-10,50	512,46	26,25	507,68	7,50	368,84	-1,50	399,75
122	04/02/2014 11.00	11,25	550,31	-12,75	510,21	24,00	505,43	6,00	367,34	-3,75	397,50
123	13/02/2014 11.00	9,75	548,81	-12,00	510,96	23,25	504,68	6,75	368,09	-0,75	400,50
124	18/02/2014 11.00	10,50	549,56	-11,25	511,71	22,50	503,93	7,50	368,84	0,00	401,25
125	27/02/2014 11.00	11,25	550,31	-10,50	512,46	21,00	502,43	8,25	369,59	-2,25	399,00
126	06/03/2014 11.00	12,75	551,81	-10,50	512,46	21,75	503,18	7,50	368,84	-0,75	400,50
127	11/03/2014 12.00	15,00	554,06	-11,25	511,71	22,50	503,93	6,75	368,09	-1,50	399,75
128	20/03/2014 11.00	16,50	555,56	-9,75	513,21	21,00	502,43	8,25	369,59	-0,75	400,50
129	27/03/2014 14.00	15,75	554,81	-10,50	512,46	21,75	503,18	6,75	368,09	-2,25	399,00
130	01/04/2014 10.30	15,00	554,06	-12,75	510,21	22,50	503,93	8,25	369,59	-0,75	400,50
131	07/04/2014 12.00	15,75	554,81	-12,00	510,96	24,00	505,43	6,00	367,34	-1,50	399,75
132	16/04/2014 12.00	16,50	555,56	-11,25	511,71	23,25	504,68	6,75	368,09	-0,75	400,50
133	29/04/2014 11.00	14,25	553,31	-12,75	510,21	22,50	503,93	6,00	367,34	-2,25	399,00
134	06/05/2014 11.00	16,50	555,56	-12,00	510,96	24,00	505,43	5,25	366,59	-3,75	397,50
135	13/05/2014 11.00	15,75	554,81	-12,75	510,21	22,50	503,93	3,75	365,09	-2,25	399,00
136	20/05/2014 11.00	15,00	554,06	-14,25	508,71	21,00	502,43	3,00	364,34	-3,75	397,50
137	29/05/2014 11.00	14,25	553,31	-15,00	507,96	19,50	500,93	2,25	363,59	-5,25	396,00
138	03/06/2014 11.00	12,75	551,81	-16,50	506,46	18,00	499,43	0,75	362,09	-6,75	394,50
139	10/06/2014 11.00	12,00	551,06	-17,25	505,71	17,25	498,68	0,00	361,34	-5,25	396,00
140	19/06/2014 11.00	10,50	549,56	-19,50	503,46	16,50	497,93	0,00	361,34	-6,75	394,50
141	03/07/2014 11.00	9,00	548,06	-18,75	504,21	15,75	497,18	-1,50	359,84	-7,50	393,75
142	10/07/2014 11.00	9,75	548,81	-18,00	504,96	15,00	496,43	-0,75	360,59	-8,25	393,00
143	17/07/2014 11.00	10,50	549,56	-17,25	505,71	14,25	495,68	0,75	362,09	-7,50	393,75
144	24/07/2014 11.00	9,00	548,06	-18,75	504,21	13,50	494,93	-0,75	360,59	-8,25	393,00
145	31/07/2014 12.00	10,50	549,56	-16,50	506,46	15,75	497,18	0,00	361,34	-8,25	393,00
146	21/08/2014 12.00	9,75	548,81	-18,00	504,96	14,25	495,68	-1,50	359,84	-9,00	392,25
147	28/08/2014 12.00	8,25	547,31	-17,25	505,71	13,50	494,93	-0,75	360,59	-9,75	391,50
148	04/09/2014 11.00	7,50	546,56	-18,75	504,21	12,00	493,43	-1,50	359,84	-11,25	390,00
149	11/09/2014 11.00	8,25	547,31	-20,25	502,71	13,50	494,93	0,00	361,34	-10,50	390,75
150	16/09/2014 10.00	7,50	546,56	-19,50	503,46	14,25	495,68	-1,50	359,84	-11,25	390,00
151	01/10/2014 10.00	6,75	545,81	-18,75	504,21	15,00	496,43	-3,00	358,34	-12,00	389,25
152	15/10/2014 10.00	5,25	544,31	-18,00	504,96	14,25	495,68	-4,50	356,84	-12,75	388,50
153	05/11/2014 10.00	3,75	542,81	-17,25	505,71	15,75	497,18	-5,25	356,09	-12,00	389,25
154	19/11/2014 10.00	4,50	543,56	-18,75	504,21	14,25	495,68	-6,00	355,34	-11,25	390,00



**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




**Ubicazione** STAZIONE CHIAIA

**Tipo Strumento** Cella di Carico

**Posizione** \ \ Puntoni

**Data posa in opera** 14/09/2011

**Data lettura di zero** 14/09/2011

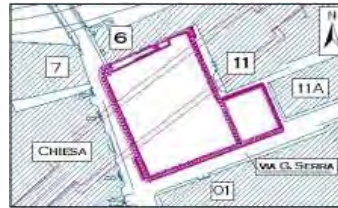
**Ultima misura** 135 **in data** 19/11/2014

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		Δ Carico [kN]	Carico [kN]	Δ Carico [kN]	Carico [kN]
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
94	29/10/2013 11.00	132,73	435,94	72,00	648,04
95	07/11/2013 10.00	134,22	437,44	72,75	648,79
96	12/11/2013 10.00	134,97	438,19	73,50	649,54
97	19/11/2013 11.00	135,72	438,94	74,25	650,29
98	05/12/2013 10.00	132,73	435,94	69,00	645,04
99	12/12/2013 10.30	134,97	438,19	66,00	642,04
100	09/01/2014 11.00	136,47	439,69	68,25	644,29
101	15/01/2014 10.30	137,22	440,44	69,00	645,04
102	21/01/2014 11.30	137,97	441,19	69,75	645,79
103	04/02/2014 11.00	135,72	438,94	68,25	644,29
104	13/02/2014 11.00	136,47	439,69	69,00	645,04
105	18/02/2014 11.00	137,22	440,44	70,50	646,54
106	27/02/2014 11.00	136,47	439,69	69,00	645,04
107	06/03/2014 11.00	137,22	440,44	69,75	645,79
108	11/03/2014 12.00	137,97	441,19	69,75	645,79
109	20/03/2014 11.00	138,72	441,94	70,50	646,54
110	27/03/2014 14.00	137,22	440,44	69,00	645,04
111	01/04/2014 10.30	135,72	438,94	70,50	646,54
112	07/04/2014 12.00	136,47	439,69	71,25	647,29
113	16/04/2014 12.00	137,22	440,44	72,00	648,04
114	29/04/2014 11.00	135,72	438,94	71,25	647,29
115	06/05/2014 11.30	134,97	438,19	70,50	646,54
116	13/05/2014 11.00	133,48	436,69	69,00	645,04
117	20/05/2014 11.00	131,98	435,19	67,50	643,54
118	29/05/2014 11.00	130,48	433,69	66,00	642,04
119	03/06/2014 11.00	129,73	432,94	66,00	642,04
120	10/06/2014 11.00	128,98	432,19	66,75	642,79
121	19/06/2014 11.00	130,48	433,69	65,25	641,29
122	03/07/2014 11.00	128,23	431,44	63,00	639,04
123	10/07/2014 11.00	128,98	432,19	63,75	639,79
124	17/07/2014 10.00	129,73	432,94	64,50	640,54
125	24/07/2014 11.00	128,98	432,19	63,75	639,79
126	31/07/2014 12.00	125,23	428,44	62,25	638,29
127	21/08/2014 12.00	123,73	426,94	61,50	637,54
128	28/08/2014 12.00	122,23	425,44	63,00	639,04
129	04/09/2014 11.00	122,98	426,19	62,25	638,29
130	11/09/2014 11.00	120,73	423,94	61,50	637,54
131	16/09/2014 10.00	118,48	421,69	60,00	636,04
132	01/10/2014 10.00	116,98	420,19	59,25	635,29
133	14/10/2014 10.00	117,73	420,94	57,75	633,79
134	05/11/2014 10.00	118,48	421,69	56,25	632,29
135	19/11/2014 10.00	119,23	422,44	57,00	633,04

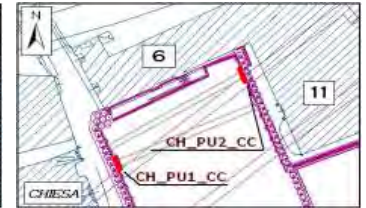


SCHEMA UBICAZIONE

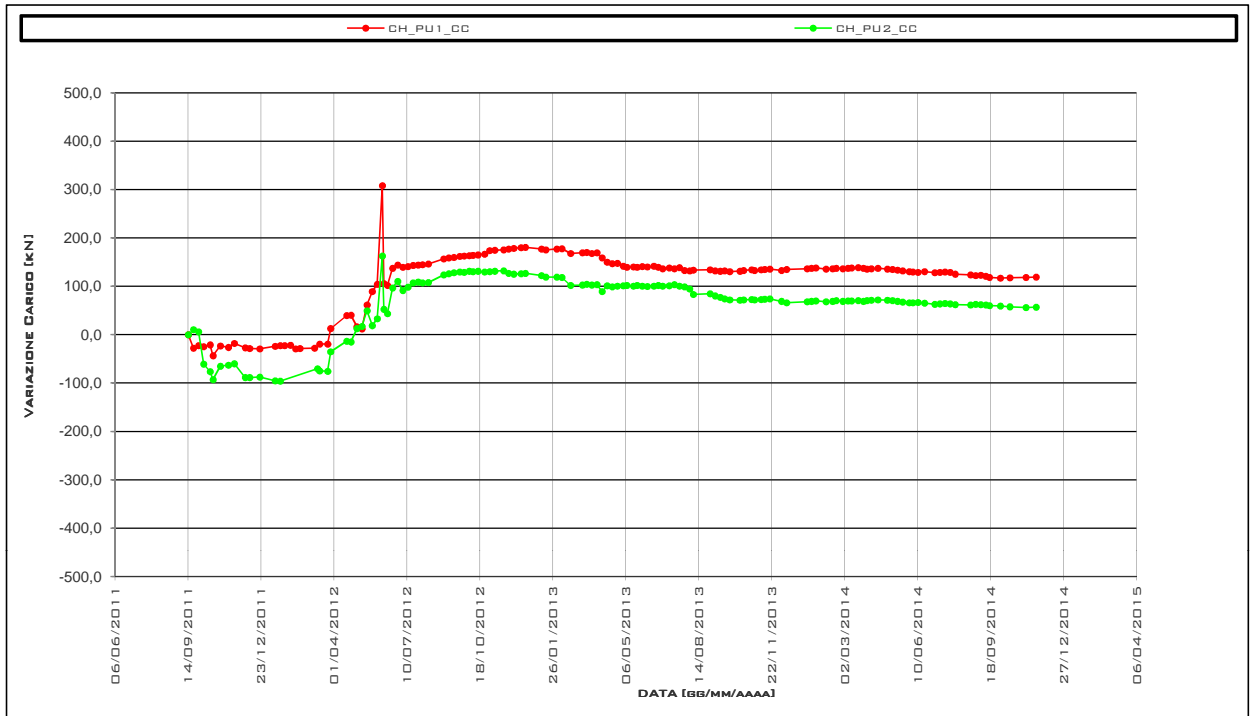
STAZIONE CHIAIA




\ \ Puntoni



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><b>Ansaldo STS</b> A Finmeccanica Company</p>	<p><b>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</b></p> <p><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO</i> <i>REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C I 37 Data: 28/11/14 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><b>Ansaldo STS</b> A Finmeccanica Company</p>	<p><b>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</b></p> <p><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO</i></p> <p><i>REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C I 37 Data: 28/11/14 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	Dal 28/02/14		
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	Dal 06/03/14		
CH_MO32	M. OTTICHE		29/11/11			



 <p><b>Ansaldo STS</b> A Finmeccanica Company</p>	<p><b>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</b></p> <p>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO REPORT DELLE MISURE - STAZIONE CHIAIA</p>	<p>LM6 7FX 2C I 37 Data: 28/11/14 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 e Mire Ottiche Supplementari

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	SOSTITUITA
CH_MO36A	M. OTTICHE		28/03/13			Sostituisce CH_MO36
CH_MO37	M. OTTICHE		18/09/12		13/06/13	SOSTITUITA
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		07/11/13	DIVELTA
CH_MO41	M. OTTICHE		05/03/13			
CH_MO42	M. OTTICHE		05/03/13			
CH_MO43	M. OTTICHE		05/03/13		31/10/13	DIVELTA
CH_MO44	M. OTTICHE		05/03/13		28/08/13	DIVELTA
CH_MO45	M. OTTICHE		28/03/13		15/01/14	DIVELTA
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	Dal 28/02/14		
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	Dal 28/02/14		
CH_MO62	M. OTTICHE		28/03/13			
CH_MO63	M. OTTICHE		28/03/13			
CH_MO64	M. OTTICHE		28/03/13			
CH_MO65	M. OTTICHE		06/02/14		24/03/14	DIVELTA
CH_MO66	M. OTTICHE		06/02/14			(*)
CH_MO67	M. OTTICHE		06/02/14			(*)
CH_MO68	M. OTTICHE		06/02/14			(*)

 <p><b>Ansaldo STS</b> A Finmeccanica Company</p>	<p><b>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</b></p> <p><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO</i></p> <p><i>REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C I 37 Data: 28/11/14 Metropolitana di Napoli A.T.I. LM6 TreEsse Engineering S.r.l.</p>
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NOME	TIPOLOGIA STRUMENTO	DATA INSTALLAZIONE	DISPONIBILITA' LETTURA			NOTE
			DATA LETTURA DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
CH_MO69	M. OTTICHE		06/02/14			(*)
CH_MO70	M. OTTICHE		06/02/14			Urtata (17/03/14; 24/03/14)
CH_MO71	M. OTTICHE		12/02/14			(*)
CH_MO72	M. OTTICHE		28/02/14			(*)
CH_MO73	M. OTTICHE		06/03/14			(*)
CH_MO74	M. OTTICHE		06/03/14			(*)

(\*) al presente Report non ci sono misure da consegnare per lo strumento





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

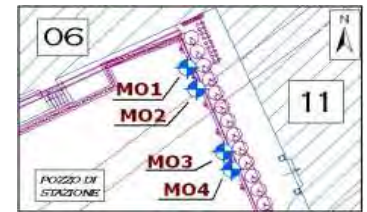
Ultima Misura 136 in data 13/11/2014

Letto. 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]
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 08.30	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 08.30	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 08.30	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 15.30	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 08.30	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 10.30	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 08.30	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 08.30	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	34.7	2.0	-1.0	-2.0	15.0	33.0	3.0	-3.0	-3.0	15.0	32.9	3.0	-4.0	-1.0
65	03/04/2013 17.30	16.0	34.7	0.0	-1.0	-2.0	16.0	34.7	1.0	-1.0	-2.0	16.0	33.0	2.0	-5.0	-4.0	16.0	32.9	2.0	-4.0	-1.0
66	10/04/2013 10.30	16.0	34.7	2.0	-1.0	-1.0	16.0	34.7	2.0	0.0	-1.0	16.0	33.0	3.0	-4.0	-2.0	16.0	32.9	2.0	-4.0	-1.0
67	16/04/2013 15.00	23.0	34.7	1.0	0.0	-2.0	23.0	34.7	1.0	-1.0	-3.0	23.0	33.0	2.0	-3.0	-4.0	23.0	32.9	2.0	-3.0	-2.0
68	23/04/2013 08.30	13.0	34.7	1.0	-2.0	-2.0	13.0	34.7	1.0	-3.0	-2.0	13.0	33.0	2.0	-4.0	-2.0	13.0	32.9	1.0	-2.0	-1.0
69	03/05/2013 14.30	25.0	34.7	2.0	0.0	0.0	25.0	34.7	1.0	-1.0	-1.0	25.0	33.0	3.0	-3.0	-3.0	25.0	32.9	2.0	-2.0	-1.0
70	09/05/2013 08.30	18.0	34.7	2.0	0.0	0.0	18.0	34.7	2.0	-2.0	0.0	18.0	33.0	3.0	-3.0	-2.0	18.0	32.9	2.0	-3.0	-1.0
71	15/05/2013 14.30	21.0	34.7	2.0	0.0	-2.0	21.0	34.7	1.0	-2.0	-2.0	21.0	33.0	2.0	-3.0	-3.0	21.0	32.9	3.0	-3.0	-2.0
72	22/05/2013 08.30	19.0	34.7	2.0	0.0	-2.0	19.0	34.7	1.0	-2.0	-2.0	19.0	33.0	2.0	-2.0	-3.0	19.0	32.9	3.0	-2.0	-1.0
73	31/05/2013 15.30	18.0	34.7	2.0	0.0	-2.0	18.0	34.7	2.0	-2.0	-2.0	18.0	33.0	3.0	-4.0	-4.0	18.0	32.9	2.0	-3.0	-2.0
74	07/06/2013 08.30	21.0	34.7	2.0	-1.0	-2.0	21.0	34.7	2.0	-1.0	-1.0	21.0	33.0	3.0	-2.0	-3.0	21.0	32.9	2.0	-3.0	-1.0
75	13/06/2013 14.30	28.0	34.7	3.0	0.0	-2.0	28.0	34.7	3.0	1.0	-2.0	28.0	33.0	4.0	-1.0	-3.0	28.0	32.9	3.0	-1.0	-2.0
76	18/06/2013 09.00	28.0	34.7	1.0	0.0	-1.0	28.0	34.7	2.0	0.0	-1.0	28.0	33.0	2.0	-2.0	-3.0	28.0	32.9	2.0	-2.0	-1.0
77	25/06/2013 18.00	28.0	34.7	2.0	1.0	-1.0	28.0	34.7	1.0	-1.0	-1.0	28.0	33.0	3.0	-1.0	-2.0	28.0	32.9	3.0	-3.0	-1.0
78	01/07/2013 07.30	22.0	34.7	2.0	0.0	-1.0	22.0	34.7	2.0	-1.0	-1.0	22.0	33.0	3.0	-2.0	-3.0	22.0	32.9	2.0	-2.0	-1.0
79	08/07/2013 17.30	25.0	34.7	2.0	1.0	-1.0	25.0	34.7	2.0	0.0	0.0	25.0	33.0	3.0	-2.0	-2.0	25.0	32.9	3.0	-1.0	-1.0
80	13/07/2013 07.30	25.0	34.7	2.0	-1.0	-1.0	25.0	34.7	2.0	-1.0	-1.0	25.0	33.0	3.0	-3.0	-1.0	25.0	32.9	3.0	-3.0	0.0
81	18/07/2013 07.30	25.0	34.7	3.0	0.0	-1.0	25.0	34.7	3.0	-1.0	-2.0	25.0	33.0	4.0	-3.0	-3.0	25.0	32.9	3.0	-3.0	-1.0
82	25/07/2013 18.00	27.0	34.7	3.0	0.0	-1.0	27.0	34.7	2.0	-1.0	1.0	27.0	33.0	3.0	-2.0	-1.0	27.0	32.9	2.0	-2.0	0.0
83	31/07/2013 09.00	27.0	34.7	3.0	0.0	0.0	27.0	34.7	3.0	-1.0	-1.0	27.0	33.0	3.0	-3.0	-2.0	27.0	32.9	3.0	-2.0	0.0
84	07/08/2013 09.00	29.0	34.7	3.0	0.0	1.0	29.0	34.7	3.0	-1.0	0.0	29.0	33.0	3.0	-2.0	-2.0	29.0	32.9	2.0	-2.0	0.0
85	13/08/2013 09.00	27.0	34.7	2.0	0.0	1.0	27.0	34.7	2.0	0.0	1.0	27.0	33.0	2.0	-1.0	-1.0	27.0	32.9	1.0	-2.0	0.0
86	21/08/2013 07.30	23.0	34.7	2.0	0.0	0.0	23.0	34.7	2.0	0.0	-1.0	23.0	33.0	2.0	-1.0	-3.0	23.0	32.9	2.0	-2.0	0.0
87	28/08/2013 10.30	25.0	34.7	3.0	0.0	-1.0	25.0	34.7	3.0	-1.0	-1.0	25.0	33.0	2.0	-3.0	-2.0	25.0	32.9	2.0	-1.0	-1.0
88	06/09/2013 17.30	29.0	34.7	3.0	0.0	0.0	29.0	34.7	2.0	0.0	-1.0	29.0	33.0	2.0	-1.0	-2.0	29.0	32.9	2.0	-2.0	-1.0
89	13/09/2013 07.30	18.0	34.7	3.0	0.0	-1.0	18.0	34.7	3.0	-1.0	-1.0	18.0	33.0	3.0	-2.0	-3.0	18.0	32.9	2.0	-1.0	-1.0
90	21/09/2013 09.30	21.0	34.7	3.0	0.0	-2.0	21.0	34.7	3.0	-1.0	-2.0	21.0	33.0	2.0	-2.0	-2.0	21.0	32.9	2.0	-3.0	-1.0
91	26/09/2013 09.30	18.0	34.7	3.0	0.0	0.0	18.0	34.7	3.0	-2.0	-2.0	18.0	33.0	2.0	-2.0	-2.0	18.0	32.9	2.0	-2.0	0.0
92	03/10/2013 16.30	20.0	34.7	3.0	0.0	-1.0	20.0	34.7	3.0	0.0	-1.0	20.0	33.0	2.0	-1.0	-3.0	20.0	32.9	2.0	-2.0	-1.0
93	10/10/2013 08.30	16.0	34.7	3.0	0.0	-1.0	16.0	34.7	3.0	-1.0	-1.0	16.0	33.0	2.0	-1.0	-1.0	16.0	32.9	2.0	-1.0	1.0
94	16/10/2013 14.30	23.0	34.7	3.0	0.0	0.0	23.0	34.7	3.0	-1.0	-1.0	23.0	33.0	2.0	-3.0	-2.0	23.0	32.9	2.0	-3.0	0.0
95	24/10/2013 08.30	18.0	34.7	3.0	2.0	0.0	18.0	34.7	3.0	-1.0	-1.0	18.0	33.0	2.0	-2.0	-1.0	18.0	32.9	2.0	-1.0	1.0
96	31/10/2013 14.30	23.0	34.7	3.0	1.0	-1.0	23.0	34.7	3.0	0.0	0.0	23.0	33.0	2.0	-2.0	-1.0	23.0	32.9	2.0	-2.0	0.0
97	07/11/2013 08.30	11.0	34.7	3.0	1.0	0.0	11.0	34.7	3.0	0.0	0.0	11.0	33.0	2.0	-2.0	-1.0	11.0	32.9	2.0	-1.0	0.0
98	14/11/2013 14.30	20.0	34.7	3.0	1.0	0.0	20.0	34.7	3.0	0.0	0.0	20.0	33.0	2.0	-2.0	-2.0	20.0	32.9	2.0	-1.0	1.0
99	25/11/2013 15.30	12.0	34.7	3.0	1.0	-1.0	12.0	34.7	3.0	-1.0	-1.0	12.0	33.0	3.0	-3.0	-1.0	12.0	32.9	2.0	-1.0	1.0
100	30/11/2013 08.30	7.0	34.7	3.0	1.0	-1.0	7.0	34.7	3.0	0.0	-1.0	7.0	33.0	3.0	-1.0	-2.0	7.0	32.9	2.0	-1.0	0.0
101	05/12/2013 08.30	7.0	34.7	3.0	1.0	0.0	7.0	34.7	3.0	0.0	0.0	7.0	33.0	2.0	-2.0	-2.0	7.0	32.9	2.0	-1.0	-1.0
102	19/12/2013 13.00	8.0	34.7	2.0	0.0	1.0	8.0	34.7	2.0	-2.0	0.0	8.0</									

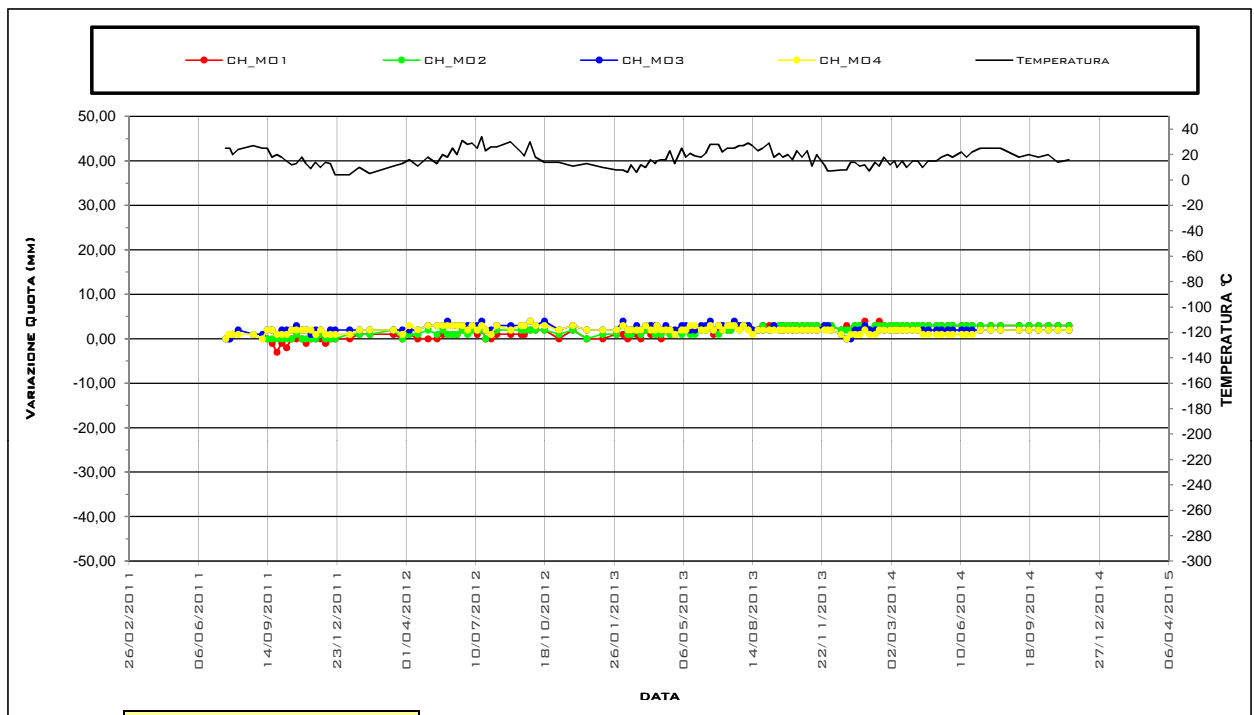


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ I Ordine di Tiranti \ 01-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 13/09/2011  
**Data lettura di zero** 13/09/2011

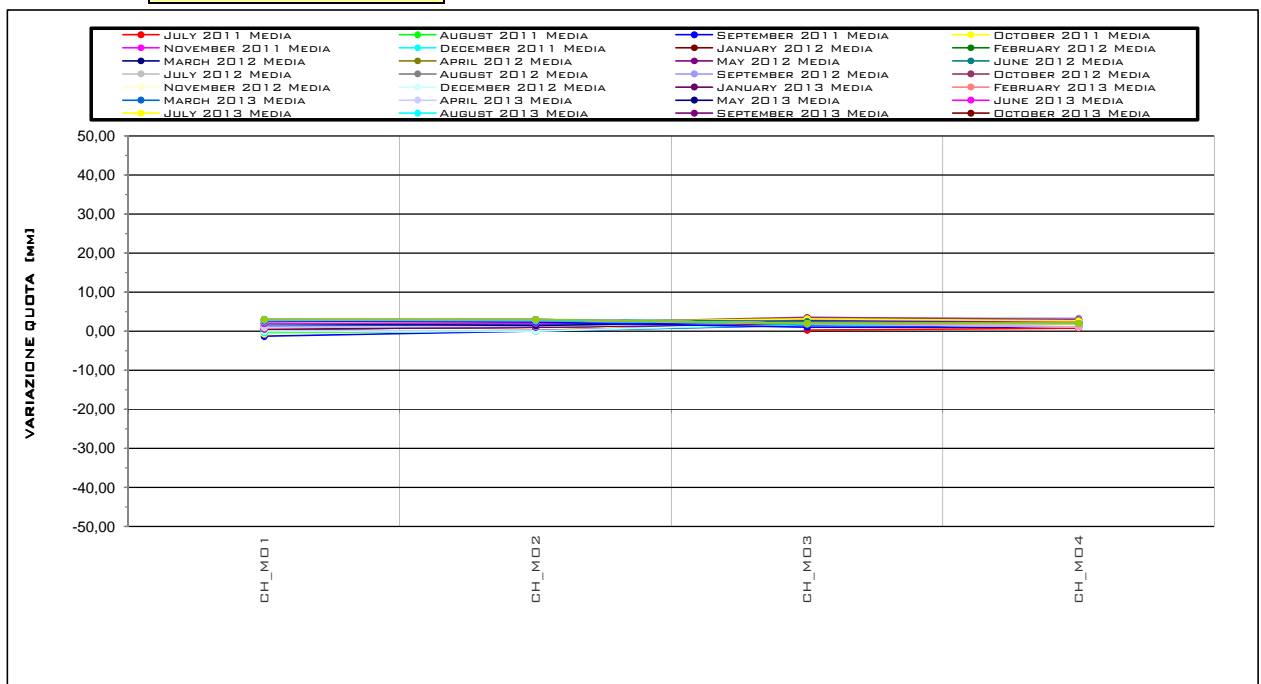
**UBICAZIONE**



**GRAFICO QUOTA**

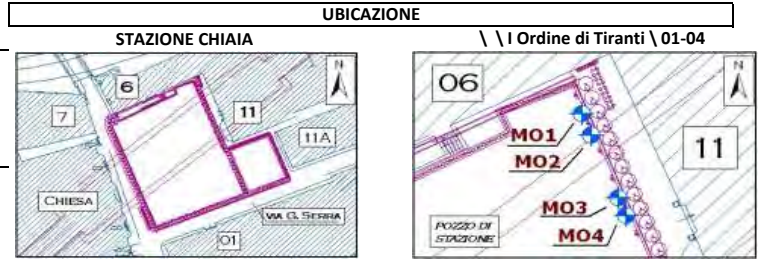


**GRAFICO ISOCRONE**

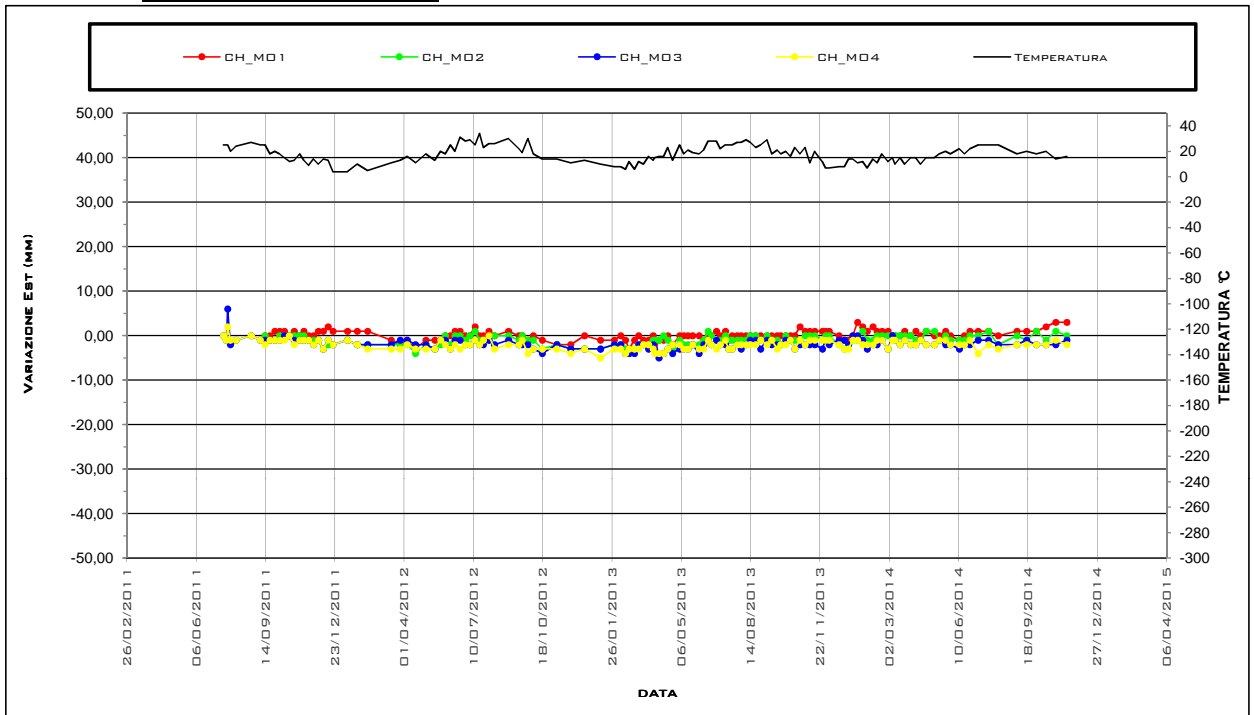




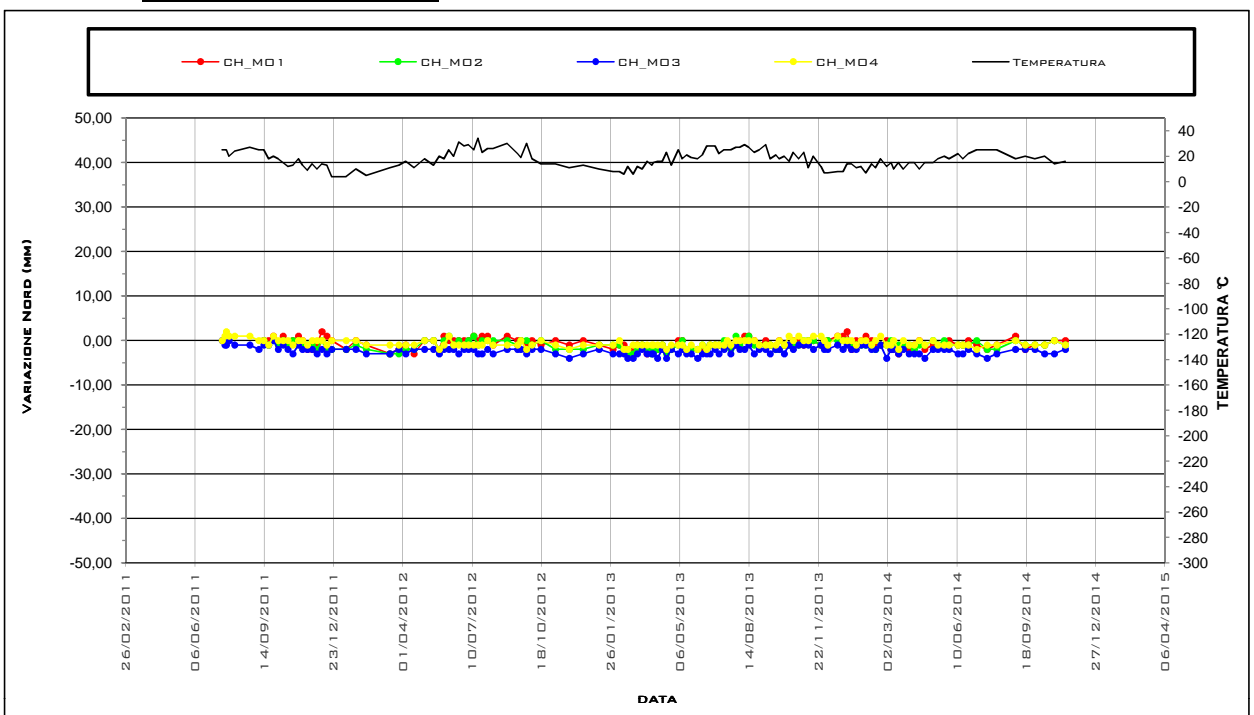
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ | Ordine di Tiranti \ 01-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 13/09/2011  
**Data lettura di zero** 13/09/2011



**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

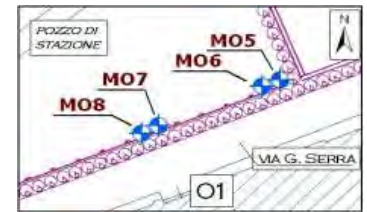
Ultima Misura 135 in data 13/11/2014

Letto. n°	DATA	CH_M05					CH_M06					CH_M07					CH_M08				
		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]
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 08.30	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 15.00	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	33,2	2,0	0,0	6,0	16,0	33,1	-2,0	-6,0	3,0	16,0	33,1	-1,0	-7,0	3,0
62	26/03/2013 14.30	13,0	33,2	1,0	-3,0	3,0	13,0	33,2	2,0	-3,0	4,0	13,0	33,1	-3,0	-5,0	0,0	13,0	33,1	-2,0	-6,0	2,0
63	28/03/2013 11.00	15,0	33,2	1,0	-2,0	4,0	15,0	33,2	2,0	-2,0	6,0	15,0	33,1	-3,0	-5,0	2,0	15,0	33,1	-3,0	-7,0	-1,0
64	03/04/2013 17.30	16,0	33,2	1,0	-1,0	5,0	16,0	33,2	1,0	-2,0	6,0	16,0	33,1	-2,0	-5,0	2,0	16,0	33,1	-1,0	-5,0	2,0
65	10/04/2013 10.30	16,0	33,2	2,0	-3,0	5,0	16,0	33,2	2,0	-2,0	6,0	16,0	33,1	-2,0	-5,0	3,0	16,0	33,1	-2,0	-5,0	4,0
66	16/04/2013 15.00	23,0	33,2	0,0	2,0	4,0	23,0	33,2	1,0	-3,0	6,0	23,0	33,1	-1,0	-6,0	2,0	23,0	33,1	-1,0	-6,0	2,0
67	23/04/2013 08.30	13,0	33,2	2,0	0,0	5,0	13,0	33,2	1,0	0,0	6,0	13,0	33,1	-2,0	-5,0	2,0	13,0	33,1	-3,0	-6,0	3,0
68	03/05/2013 14.30	25,0	33,2	2,0	3,0	5,0	25,0	33,2	1,0	3,0	6,0	25,0	33,1	-2,0	-4,0	1,0	25,0	33,1	-1,0	-5,0	2,0
69	09/05/2013 08.30	18,0	33,2	2,0	-2,0	5,0	18,0	33,2	1,0	0,0	6,0	18,0	33,1	-1,0	-4,0	2,0	18,0	33,1	-1,0	-5,0	3,0
70	15/05/2013 14.30	21,0	33,2	1,0	3,0	5,0	21,0	33,2	2,0	1,0	6,0	21,0	33,1	-1,0	-6,0	-1,0	21,0	33,1	0,0	-7,0	0,0
71	22/05/2013 08.30	19,0	33,2	1,0	1,0	5,0	19,0	33,2	2,0	2,0	5,0	19,0	33,1	-2,0	-7,0	2,0	19,0	33,1	-2,0	-7,0	2,0
72	31/05/2013 15.30	18,0	33,2	2,0	0,0	3,0	18,0	33,2	3,0	-1,0	4,0	18,0	33,1	-3,0	-5,0	4,0	18,0	33,1	-2,0	-6,0	4,0
73	07/06/2013 08.30	21,0	33,2	1,0	0,0	4,0	21,0	33,2	1,0	1,0	6,0	21,0	33,1	-2,0	-6,0	1,0	21,0	33,1	-2,0	-6,0	2,0
74	13/06/2013 14.30	28,0	33,2	2,0	4,0	4,0	28,0	33,2	2,0	3,0	6,0	28,0	33,1	-1,0	-6,0	2,0	28,0	33,1	0,0	-6,0	3,0
75	18/06/2013 09.00	28,0	33,2	1,0	2,0	5,0	28,0	33,2	1,0	2,0	7,0	28,0	33,1	-1,0	-6,0	3,0	28,0	33,1	0,0	-7,0	3,0
76	25/06/2013 18.00	28,0	33,2	2,0	3,0	6,0	28,0	33,2	2,0	3,0	6,0	28,0	33,1	-1,0	-6,0	2,0	28,0	33,1	0,0	-7,0	4,0
77	01/07/2013 07.30	22,0	33,2	2,0	4,0	6,0	22,0	33,2	2,0	3,0	6,0	22,0	33,1	0,0	-8,0	0,0	22,0	33,1	0,0	-8,0	2,0
78	08/07/2013 17.30	25,0	33,2	2,0	3,0	5,0	25,0	33,2	1,0	0,0	6,0	25,0	33,1	1,0	-10,0	0,0	25,0	33,1	1,0	-10,0	0,0
79	13/07/2013 07.30	25,0	33,2	4,0	2,0	5,0	25,0	33,2	1,0	-1,0	8,0	25,0	33,1	-1,0	-9,0	2,0	25,0	33,1	0,0	-9,0	3,0
80	18/07/2013 07.30	25,0	33,2	3,0	2,0	5,0	25,0	33,2	1,0	-1,0	7,0	25,0	33,1	1,0	-8,0	2,0	25,0	33,1	2,0	-8,0	3,0
81	25/07/2013 18.00	27,0	33,2	3,0	4,0	5,0	27,0	33,2	1,0	0,0	8,0	27,0	33,1	0,0	-8,0	1,0	27,0	33,1	0,0	-8,0	3,0
82	31/07/2013 09.00	27,0	33,2	3,0	3,0	6,0	27,0	33,2	1,0	0,0	9,0	27,0	33,1	0,0	-7,0	2,0	27,0	33,1	1,0	-7,0	5,0
83	07/08/2013 09.00	29,0	33,2	2,0	3,0	6,0	29,0	33,2	0,0	0,0	9,0	29,0	33,1	0,0	-7,0	2,0	29,0	33,1	1,0	-7,0	3,0
84	13/08/2013 09.00	27,0	33,2	2,0	3,0	5,0	27,0	33,2	0,0	0,0	8,0	27,0	33,1	-1,0	-7,0	2,0	27,0	33,1	0,0	-8,0	2,0
85	21/08/2013 07.30	23,0	33,2	5,0	4,0	6,0	23,0	33,2	2,0	1,0	9,0	23,0	33,1	0,0	-7,0	2,0	23,0	33,1	0,0	-8,0	3,0
86	28/08/2013 10.30	25,0	33,2	4,0	4,0	5,0	25,0	33,2	2,0	1,0	8,0	25,0	33,1	1,0	-9,0	5,0	25,0	33,1	1,0	-10,0	5,0
87	06/09/2013 17.30						29,0	33,2	2,0	2,0	7,0	29,0	33,1	0,0	-8,0	2,0	29,0	33,1	1,0	-9,0	4,0
88	13/09/2013 07.30	18,0	33,2	4,0	7,0	9,0	18,0	33,2	2,0	2,0	9,0	18,0	33,1	0,0	-7,0	2,0	18,0	33,1	1,0	-8,0	4,0
89	21/09/2013 09.30	21,0	33,2	4,0	6,0	7,0	21,0	33,2	3,0	0,0	7,0	21,0	33,1	0,0	-8,0	3,0	21,0	33,1	0,0	-8,0	4,0
90	26/09/2013 09.00	18,0	33,2	4,0	5,0	6,0	18,0	33,2	2,0	1,0	8,0	18,0	33,1	0,0	-9,0	2,0	18,0	33,1	0,0	-10,0	3,0
91	03/10/2013 16.30	20,0	33,2	4,0	7,0	4,0	20,0	33,2	2,0	3,0	7,0	20,0	33,1	1,0	-8,0	5,0	20,0	33,1	1,0	-8,0	5,0
92	10/10/2013 08.30	16,0	33,2	4,0	6,0	7,0	16,0	33,2	3,0	2,0	10,0	16,0	33,1	0,0	-9,0	3,0	16,0	33,1	1,0	-9,0	4,0
93	16/10/2013 14.30	23,0	33,2	4,0	2,0	6,0	23,0	33,2	2,0	0,0	9,0	23,0	33,1	-2,0	-9,0	3,0	23,0	33,1	-1,0	-9,0	5,0
94	24/10/2013 08.30	18,0	33,2	4,0	3,0	6,0	18,0	33,2	2,0	2,0	9,0	18,0	33,1	-2,0	-8,0	3,0	18,0	33,1	-1,0	-8,0	4,0
95	31/10/2013 14.30	23,0	33,2	5,0	4,0	6,0	23,0	33,2	3,0	2,0	9,0	23,0	33,1	-2,0	-9,0	3,0	23,0	33,1	-1,0	-9,0	3,0
96	07/11/2013 08.30	11,0	33,2	5,0	2,0	6,0	11,0	33,2	3,0	-1,0	9,0	11,0	33,1	-2,0	-9,0	2,0	11,0	33,1	-1,0	-9,0	3,0
97	14/11/2013 14.30	20,0	33,2	5,0	4,0	7,0	20,0	33,2	3,0	2,0	11,0	20,0	33,1	-1,0	-9,0	3,0	20,0	33,1	0,0	-10,0	5,0
98	25/11/2013 15.30	12,0	33,2	5,0	4,0	7,0	12,0	33,2	3,0	1,0	11,0	12,0	33,1	-1,0	-8,0	2,0	12,0	33,1	0,0	-8,0	3,0
99	30/11/2013 08.30	7,0	33,2	5,0	6,0	7,0	7,0	33,2	3,0	3,0	11,0	7,0	33,1	-1,0	-7,0	4,0	7,0	33,1	-1,0	-9,0	3,0
100	05/12/2013 08.30	7,0	33,2	5,0	3,0	6,0	7,0	33,2	3,0	1,0	10,0	7,0	33,1	-1,0	-9,0	4,0	7,0	33,1	0,0	-9,0	5,0
101	19/12/2013 13.00	8,0	33,2	5,0	1,0	4,0	8,0	33,2	3,0	1,0	10,0	8,0	33,1								

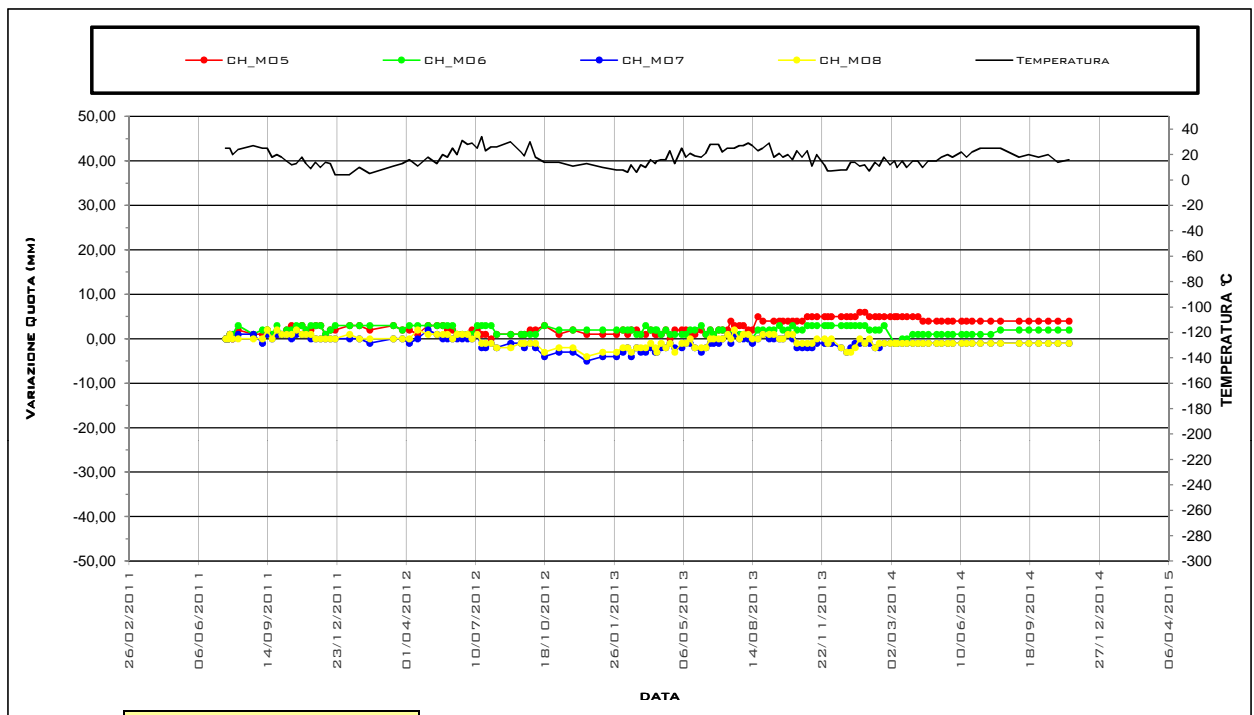


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ I Ordine di Tiranti \ 05-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 15/07/2011  
**Data lettura di zero** 15/07/2011

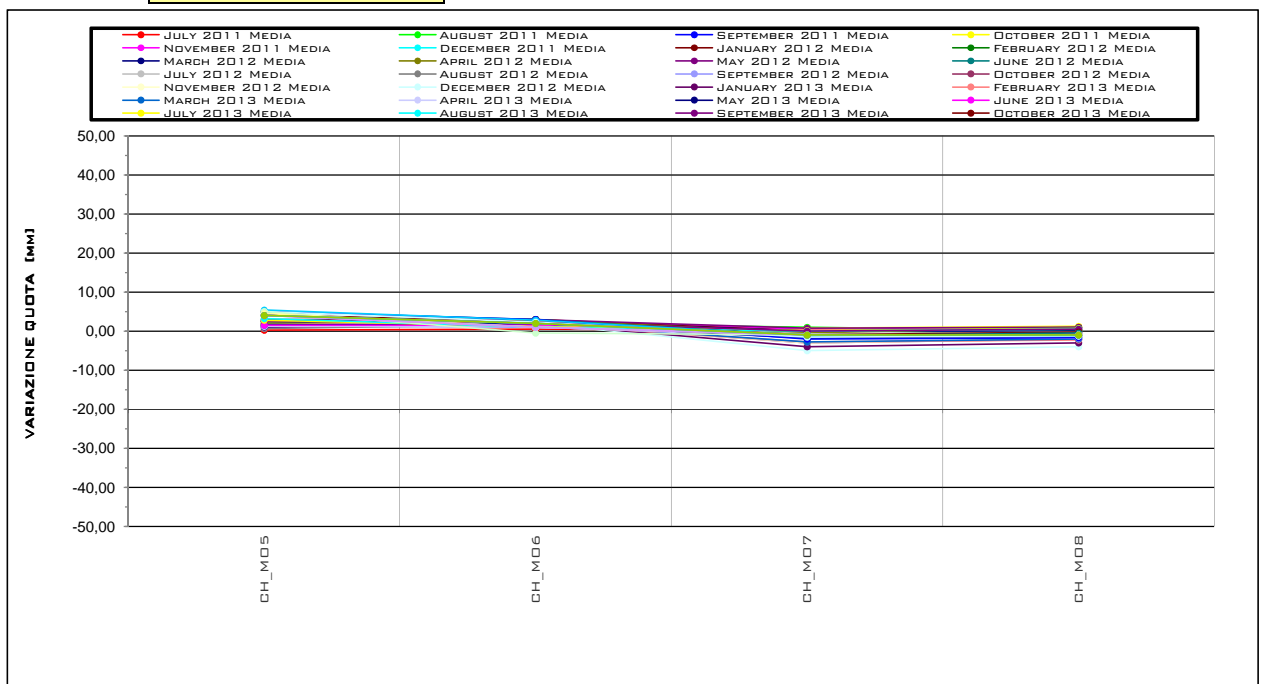
**UBICAZIONE**



**GRAFICO QUOTA**

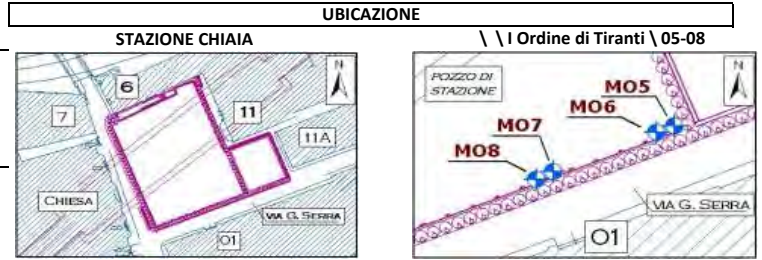


**GRAFICO ISOCRONE**

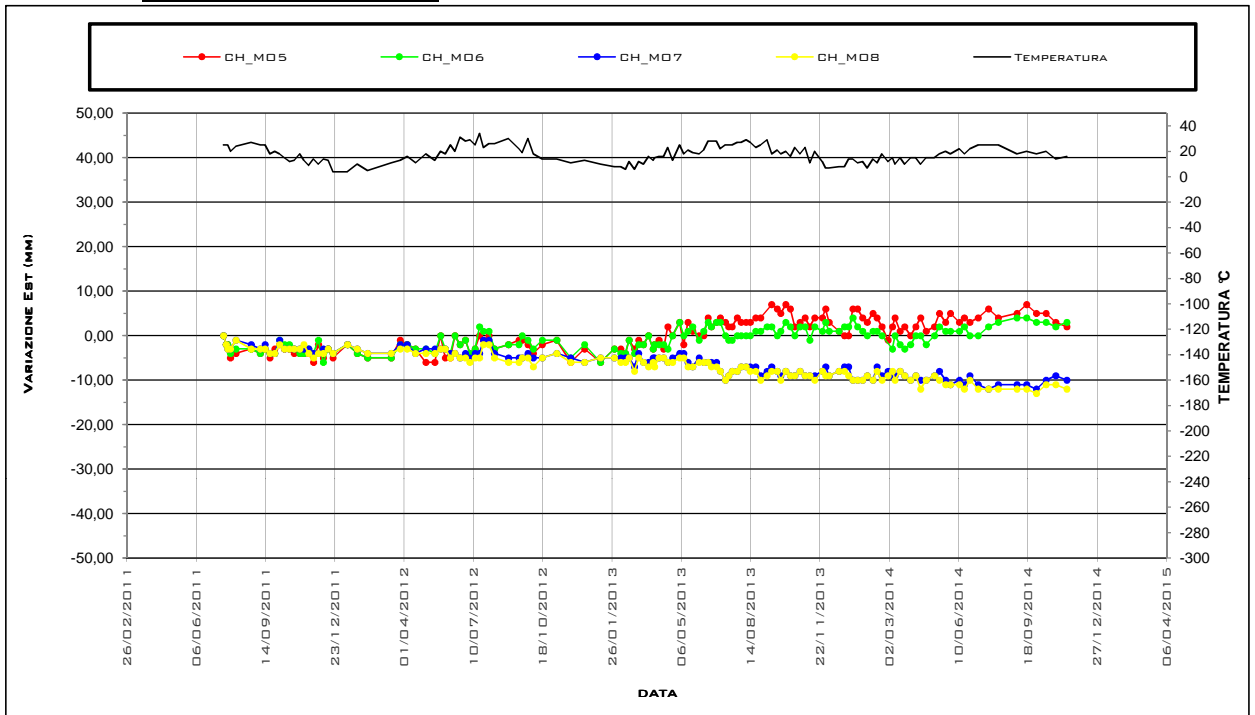




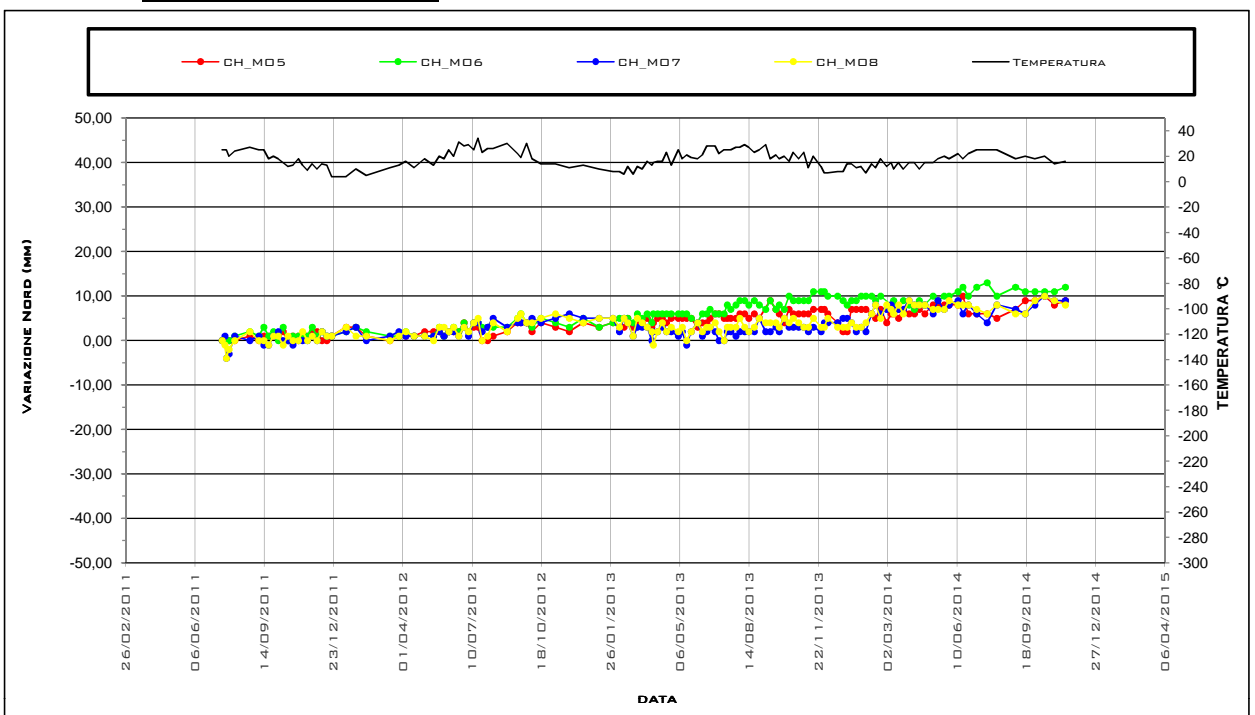
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ | Ordine di Tiranti \ 05-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 15/07/2011  
**Data lettura di zero** 15/07/2011



**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

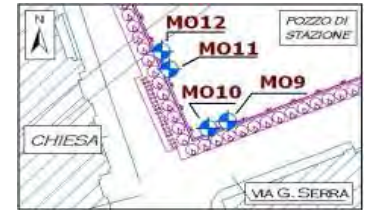
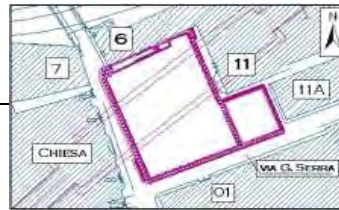
Ultima Misura 135 in data 13/11/2014

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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	16.0	34.1	-1.0	-4.0	2.0										16.0	34.1	1.0	-4.0	3.0	
62	26/03/2013 08.30	13.0	34.1	-2.0	-3.0	-1.0										13.0	34.1	-1.0	-2.0	1.0	
63	28/03/2013 11.00	15.0	34.1	-2.0	-4.0	0.0										15.0	34.1	-1.0	-3.0	2.0	
64	03/04/2013 17.30	16.0	34.1	-2.0	-4.0	1.0	16.0	34.0	-1.0	1.0	1.0	16.0	34.0	-2.0	0.0	3.0	16.0	34.1	0.0	-3.0	2.0
65	10/04/2013 10.30	16.0	34.1	-1.0	-3.0	2.0	16.0	34.0	-1.0	1.0	1.0	16.0	34.0	-2.0	1.0	2.0	16.0	34.1	0.0	-3.0	2.0
66	16/04/2013 15.00	23.0	34.1	0.0	-4.0	0.0	23.0	34.0	0.0	0.0	0.0	23.0	34.0	0.0	0.0	0.0	23.0	34.1	0.0	-3.0	0.0
67	23/04/2013 08.30	13.0	34.1	-2.0	-3.0	1.0	13.0	34.0	-2.0	1.0	1.0	13.0	34.0	-2.0	1.0	1.0	13.0	34.1	-1.0	-2.0	2.0
68	03/05/2013 14.30	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	2.0	25.0	34.1	0.0	-2.0	0.0
69	09/05/2013 08.30	18.0	34.1	0.0	-4.0	1.0	18.0	34.0	-1.0	1.0	1.0	18.0	34.0	-1.0	1.0	2.0	18.0	34.1	0.0	-3.0	1.0
70	15/05/2013 14.30	21.0	34.1	0.0	-5.0	-1.0	21.0	34.0	0.0	0.0	0.0	21.0	34.0	0.0	0.0	0.0	21.0	34.1	1.0	-3.0	-1.0
71	22/05/2013 08.30	19.0	34.1	-1.0	-5.0	0.0	19.0	34.0	0.0	-1.0	1.0	19.0	34.0	0.0	0.0	1.0	19.0	34.1	0.0	-5.0	1.0
72	31/05/2013 15.30	18.0	34.1	-2.0	-3.0	2.0	18.0	34.0	-2.0	-1.0	2.0	18.0	34.0	-2.0	0.0	3.0	18.0	34.1	-1.0	-3.0	3.0
73	07/06/2013 08.30	21.0	34.1	-2.0	-4.0	2.0	21.0	34.0	-2.0	0.0	1.0	21.0	34.0	-2.0	0.0	2.0	21.0	34.1	-1.0	-4.0	2.0
74	13/06/2013 14.30	28.0	34.1	0.0	-4.0	1.0	28.0	34.0	-1.0	1.0	1.0	28.0	34.0	0.0	2.0	2.0	28.0	34.1	1.0	-3.0	2.0
75	18/06/2013 09.00	28.0	34.1	0.0	-5.0	1.0	28.0	34.0	-1.0	1.0	1.0	28.0	34.0	-1.0	1.0	1.0	28.0	34.1	0.0	-4.0	2.0
76	25/06/2013 18.00	28.0	34.1	-1.0	-5.0	1.0	28.0	34.0	-2.0	-1.0	1.0	28.0	34.0	-2.0	1.0	1.0	28.0	34.1	1.0	-5.0	1.0
77	01/07/2013 07.30	22.0	34.1	0.0	-6.0	1.0	22.0	34.0	-2.0	0.0	1.0	22.0	34.0	-2.0	0.0	1.0	22.0	34.1	0.0	-4.0	1.0
78	08/07/2013 17.30	25.0	34.1	1.0	-8.0	0.0	25.0	34.0	0.0	-2.0	0.0	25.0	34.0	0.0	-1.0	1.0	25.0	34.1	2.0	-7.0	0.0
79	13/07/2013 07.30	25.0	34.1	0.0	-6.0	1.0	25.0	34.0	-2.0	0.0	2.0	25.0	34.0	-2.0	0.0	1.0	25.0	34.1	0.0	-7.0	2.0
80	18/07/2013 07.30	25.0	34.1	1.0	-6.0	0.0	25.0	34.0	-1.0	1.0	1.0	25.0	34.0	0.0	1.0	1.0	25.0	34.1	2.0	-5.0	0.0
81	25/07/2013 18.00	27.0	34.1	0.0	-6.0	1.0	27.0	34.0	-1.0	1.0	1.0	27.0	34.0	-1.0	1.0	1.0	27.0	34.1	1.0	-6.0	2.0
82	31/07/2013 09.00	27.0	34.1	0.0	-5.0	1.0	27.0	34.0	-1.0	1.0	0.0	27.0	34.0	-1.0	1.0	2.0	27.0	34.1	1.0	-4.0	2.0
83	07/08/2013 09.00	29.0	34.1	0.0	-5.0	0.0	29.0	34.0	-1.0	1.0	0.0	29.0	34.0	-2.0	1.0	2.0	29.0	34.1	1.0	-4.0	1.0
84	13/08/2013 09.00	27.0	34.1	-1.0	-6.0	-1.0	27.0	34.0	-2.0	1.0	1.0	27.0	34.0	-3.0	0.0	1.0	27.0	34.1	0.0	-5.0	0.0
85	21/08/2013 07.30	23.0	34.1	0.0	-5.0	1.0	23.0	34.0	-1.0	1.0	1.0	23.0	34.0	-2.0	2.0	2.0	23.0	34.1	1.0	-5.0	2.0
86	28/08/2013 10.30	25.0	34.1	1.0	-7.0	3.0	25.0	34.0	0.0	-1.0	4.0	25.0	34.0	0.0	-1.0	4.0	25.0	34.1	2.0	-6.0	5.0
87	06/09/2013 17.30	29.0	34.1	0.0	-7.0	1.0	29.0	34.0	-1.0	-1.0	1.0	29.0	34.0	-1.0	1.0	1.0	29.0	34.1	1.0	-6.0	2.0
88	13/09/2013 07.30	18.0	34.1	0.0	-5.0	2.0	18.0	34.0	-1.0	1.0	1.0	18.0	34.0	-1.0	1.0	1.0	18.0	34.1	1.0	-5.0	1.0
89	21/09/2013 09.30	21.0	34.1	0.0	-6.0	1.0	21.0	34.0	-3.0	0.0	1.0	21.0	34.0	-2.0	1.0	1.0	21.0	34.1	0.0	-5.0	2.0
90	26/09/2013 09.30	18.0	34.1	0.0	-7.0	1.0	18.0	34.0	-2.0	-1.0	1.0	18.0	34.0	-2.0	-1.0	2.0	18.0	34.1	0.0	-6.0	1.0
91	03/10/2013 16.30	20.0	34.1	0.0	-7.0	1.0	20.0	34.0	-3.0	0.0	1.0	20.0	34.0	-2.0	-1.0	2.0	20.0	34.1	0.0	-5.0	2.0
92	10/10/2013 08.30	16.0	34.1	0.0	-6.0	1.0	16.0	34.0	-2.0	0.0	2.0	16.0	34.0	-1.0	1.0	3.0	16.0	34.1	1.0	-6.0	2.0
93	16/10/2013 14.30	23.0	34.1	-1.0	-7.0	3.0	23.0	34.0	-3.0	-1.0	2.0	23.0	34.0	-2.0	1.0	3.0	23.0	34.1	0.0	-6.0	3.0
94	24/10/2013 08.30	18.0	34.1	-1.0	-5.0	1.0	18.0	34.0	-3.0	1.0	1.0	18.0	34.0	-3.0	1.0	2.0	18.0	34.1	0.0	-4.0	2.0
95	31/10/2013 14.30	23.0	34.1	-1.0	-6.0	3.0	23.0	34.0	-3.0	0.0	2.0	23.0	34.0	-3.0	0.0	3.0	23.0	34.1	0.0	-5.0	3.0
96	07/11/2013 08.30	11.0	34.1	-1.0	-7.0	1.0	11.0	34.0	-3.0	0.0	0.0	11.0	34.0	-3.0	0.0	1.0	11.0	34.1	0.0	-5.0	1.0
97	14/11/2013 14.30	20.0	34.1	-1.0	-6.0	3.0	20.0	34.0	-3.0	0.0	2.0	20.0	34.0	-2.0	1.0	3.0	20.0	34.1	0.0	-6.0	3.0
98	25/11/2013 15.30	12.0	34.1	-1.0	-5.0	2.0	12.0	34.0	-3.0	1.0	2.0	12.0	34.0	-2.0	1.0	1.0	12.0	34.1	0.0	-4.0	2.0
99	30/11/2013 08.30	7.0	34.1	-1.0	-5.0	3.0	7.0	34.0	-3.0	1.0	2.0	7.0	34.0	-2.0	1.0	3.0	7.0	34.1	0.0	-4.0	3.0
100	05/12/2013 08.30	7.0	34.1	-1.0	-7.0	2.0	7.0	34.0	-3.0	-1.0	1.0	7.0	34.0	-2.0	0.0	3.0	7.0	34.1	0.0	-6.0	2.0
101	19/12/2013 13.00	8.0	34.1	-2.0	-6.0	1.0	8.0	34.0	-4.0	0.0	2.0	8.0	34.0	-4.0	-1.0	2.0	8.0	34.1	-1.0	-5.0	3.0
102	27/12/2013 09.00	8.0	34.1	-2.0	-6.0	1.0	8.0	34.0	-5.0	0.0	3.0	8.0	34.0	-5.0	-1.0	2.0	8.0				

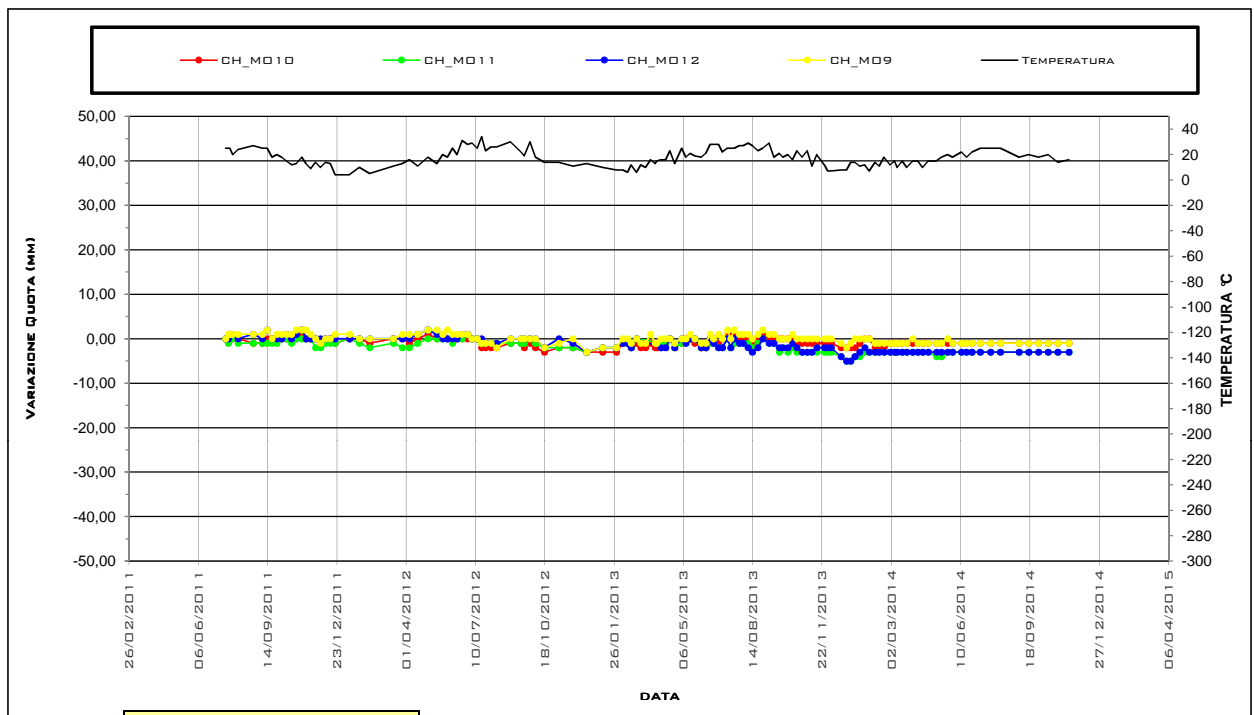


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ I Ordine di Tiranti \ 09-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 15/07/2011  
**Data lettura di zero** 15/07/2011

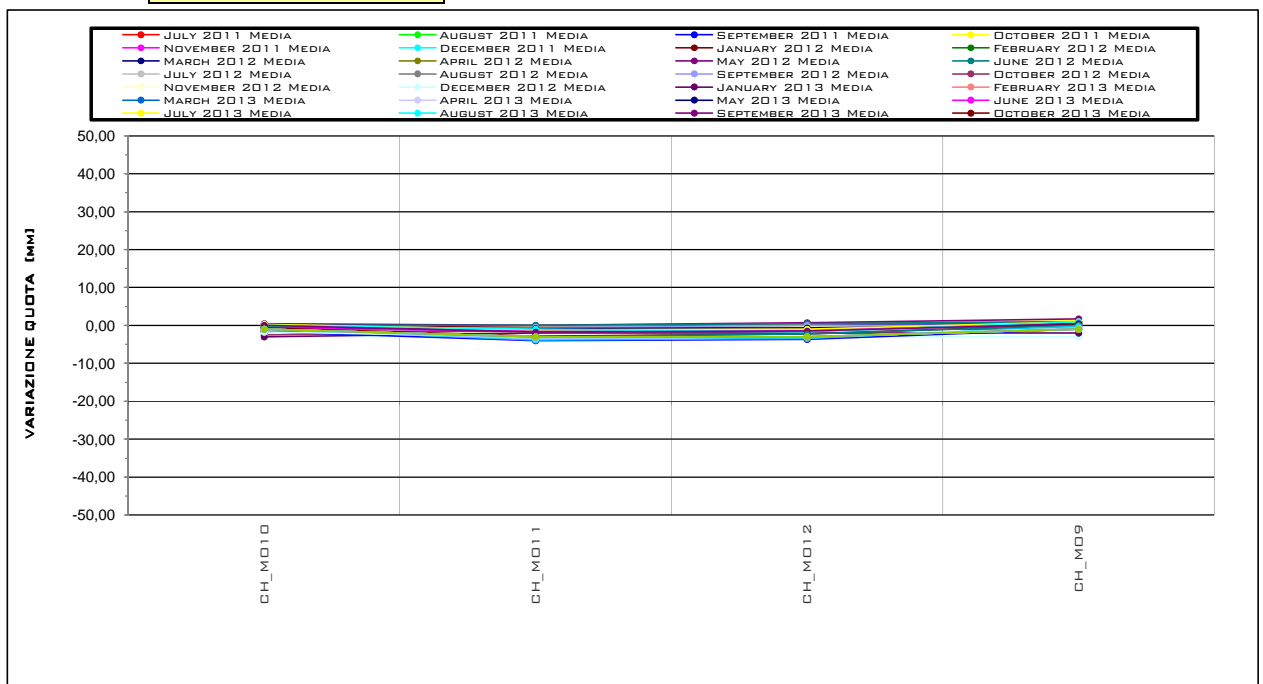
**UBICAZIONE**  
STAZIONE CHIAIA \ \ I Ordine di Tiranti \ 09-12



**GRAFICO QUOTA**

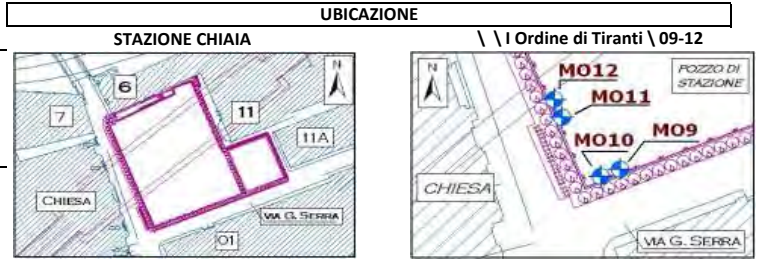


**GRAFICO ISOCRONE**

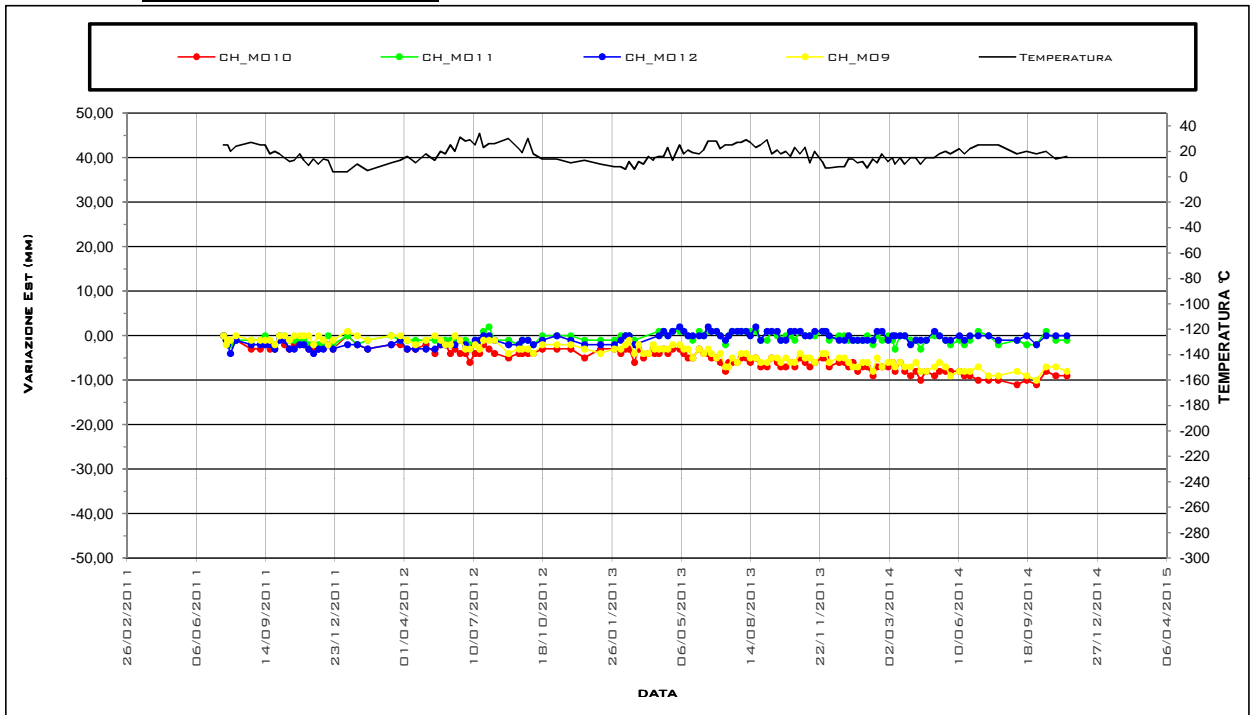




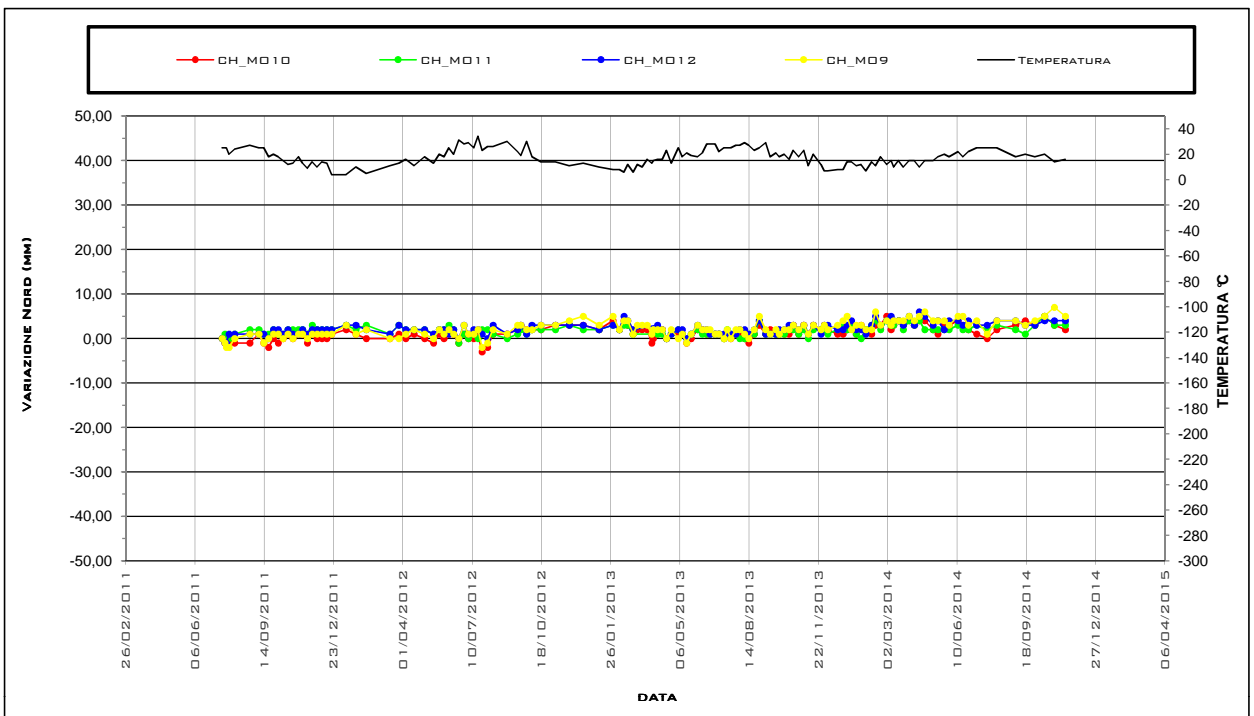
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ | Ordine di Tiranti \ 09-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 15/07/2011  
**Data lettura di zero** 15/07/2011



**GRAFICO EST**



**GRAFICO NORD**





Ubicazione STAZIONE CHIAIA

Opera \ \ Ordine di Tiranti \ 13-16

Tipo Strumento Mire Ottiche

Data posa in opera 15/07/2011

Data lettura di zero 15/07/2011

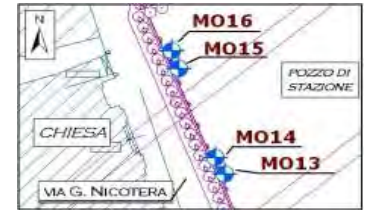
Ultima Misura 137 in data 13/11/2014

Lett. n°	DATA	CH_M013					CH_M014					CH_M015					CH_M016				
		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]
47	13/09/2012 15.00	22.0	34.0	0.0	1.0	1.0	22.0	34.0	1.0	2.0	2.0	22.0	34.6	2.0	-1.0	0.0	22.0	34.6	1.0	1.0	1.0
48	18/09/2012 08.00	19.0	34.0	-1.0	0.0	1.0	19.0	34.0	0.0	1.0	1.0	19.0	34.6	2.0	-1.0	0.0	19.0	34.6	1.0	1.0	0.0
49	26/09/2012 15.00	30.0	34.0	0.0	2.0	0.0	30.0	34.0	1.0	1.0	1.0	30.0	34.6	2.0	0.0	0.0	30.0	34.6	2.0	2.0	0.0
50	04/10/2012 09.00	18.0	34.0	-1.0	1.0	1.0	18.0	34.0	0.0	0.0	1.0	18.0	34.6	2.0	-1.0	1.0	18.0	34.6	2.0	1.0	0.0
51	17/10/2012 08.30	14.0	34.0	-2.0	2.0	2.0	14.0	34.0	-1.0	1.0	1.0	14.0	34.6	0.0	0.0	2.0	14.0	34.6	0.0	2.0	1.0
52	07/11/2012 08.30	14.0	34.0	-1.0	2.0	2.0	14.0	34.0	0.0	2.0	2.0	14.0	34.6	1.0	1.0	2.0	14.0	34.6	1.0	3.0	1.0
53	27/11/2012 08.30	11.0	34.0	-1.0	1.0	1.0	11.0	34.0	0.0	1.0	1.0	11.0	34.6	0.0	0.0	2.0	11.0	34.6	0.0	1.0	2.0
54	17/12/2012 08.30	13.0	34.0	-3.0	1.0	1.0	13.0	34.0	-3.0	1.0	2.0	13.0	34.6	0.0	1.0	2.0	13.0	34.6	-1.0	2.0	1.0
55	09/01/2013 08.30	10.0	34.0	-2.0	1.0	1.0	10.0	34.0	-1.0	1.0	2.0	10.0	34.6	1.0	1.0	2.0	10.0	34.6	-1.0	2.0	1.0
56	29/01/2013 08.30	8.0	34.0	-3.0	1.0	1.0	8.0	34.0	-2.0	1.0	3.0	8.0	34.6	0.0	-1.0	2.0	8.0	34.6	0.0	2.0	2.0
57	07/02/2013 15.00	8.0	34.0	-2.0	2.0	0.0	8.0	34.0	-1.0	2.0	0.0	8.0	34.6	1.0	2.0	-1.0	8.0	34.6	0.0	2.0	-1.0
58	14/02/2013 08.30	6.0	34.0	-2.0	3.0	2.0	6.0	34.0	-1.0	3.0	2.0	6.0	34.6	0.0	0.0	2.0	6.0	34.6	0.0	4.0	2.0
59	19/02/2013 15.30	12.0	34.0	-3.0	1.0	1.0	12.0	34.0	-1.0	3.0	2.0	12.0	34.6	-1.0	1.0	2.0	12.0	34.6	-1.0	3.0	1.0
60	27/02/2013 08.30	6.0	34.0	-2.0	1.0	1.0	6.0	34.0	0.0	2.0	1.0	6.0	34.6	1.0	2.0	1.0	6.0	34.6	1.0	2.0	-2.0
61	05/03/2013 10.30	12.0	34.0	-2.0	3.0	0.0	12.0	34.0	-1.0	3.0	1.0	12.0	34.6	0.0	0.0	-1.0	12.0	34.6	0.0	2.0	0.0
62	12/03/2013 08.30	10.0	34.0	-2.0	2.0	1.0	10.0	34.0	-1.0	2.0	2.0	10.0	34.6	0.0	0.0	1.0	10.0	34.6	0.0	2.0	1.0
63	19/03/2013 16.00	16.0	34.0	-2.0	2.0	1.0	16.0	34.0	0.0	3.0	2.0	16.0	34.6	0.0	0.0	0.0	16.0	34.6	0.0	2.0	0.0
64	26/03/2013 08.30	13.0	34.0	-3.0	4.0	-1.0	13.0	34.0	-2.0	4.0	0.0	13.0	34.6	0.0	1.0	-2.0	13.0	34.6	0.0	3.0	-2.0
65	28/03/2013 11.00	15.0	34.0	-3.0	4.0	-1.0	15.0	34.0	-2.0	4.0	0.0	15.0	34.6	-1.0	2.0	-2.0	15.0	34.6	0.0	3.0	-1.0
66	03/04/2013 17.30	16.0	34.0	-3.0	3.0	0.0	16.0	34.0	-1.0	4.0	2.0	16.0	34.6	0.0	0.0	-2.0	16.0	34.6	1.0	2.0	-1.0
67	10/04/2013 10.30	16.0	34.0	-2.0	4.0	1.0	16.0	34.0	-1.0	3.0	1.0	16.0	34.6	0.0	1.0	0.0	16.0	34.6	0.0	2.0	1.0
68	16/04/2013 15.00	23.0	34.0	-1.0	3.0	0.0	23.0	34.0	0.0	3.0	0.0	23.0	34.6	1.0	0.0	-1.0	23.0	34.6	1.0	1.0	-2.0
69	23/04/2013 08.30	13.0	34.0	-3.0	3.0	0.0	13.0	34.0	-2.0	4.0	0.0	13.0	34.6	0.0	2.0	-1.0	13.0	34.6	-1.0	2.0	-1.0
70	03/05/2013 14.30	25.0	34.0	-2.0	4.0	0.0	25.0	34.0	0.0	5.0	0.0	25.0	34.6	1.0	2.0	0.0	25.0	34.6	1.0	3.0	0.0
71	09/05/2013 08.30	18.0	34.0	-2.0	3.0	1.0	18.0	34.0	-1.0	4.0	1.0	18.0	34.6	1.0	1.0	0.0	18.0	34.6	1.0	3.0	0.0
72	15/05/2013 14.30	21.0	34.0	-1.0	3.0	-2.0	21.0	34.0	0.0	3.0	-1.0	21.0	34.6	2.0	1.0	-1.0	21.0	34.6	1.0	2.0	-2.0
73	22/05/2013 08.30	19.0	34.0	-2.0	3.0	0.0	19.0	34.0	0.0	3.0	0.0	19.0	34.6	1.0	0.0	0.0	19.0	34.6	0.0	0.0	0.0
74	31/05/2013 15.30	18.0	34.0	-3.0	4.0	1.0	18.0	34.0	-2.0	4.0	2.0	18.0	34.6	0.0	0.0	1.0	18.0	34.6	0.0	1.0	0.0
75	07/06/2013 08.30	21.0	34.0	-3.0	4.0	0.0	21.0	34.0	-2.0	5.0	1.0	21.0	34.6	0.0	0.0	0.0	21.0	34.6	0.0	2.0	0.0
76	13/06/2013 14.30	28.0	34.0	-2.0	4.0	0.0	28.0	34.0	0.0	5.0	1.0	28.0	34.6	1.0	1.0	-1.0	28.0	34.6	1.0	1.0	-1.0
77	18/06/2013 09.00	28.0	34.0	-3.0	4.0	0.0	28.0	34.0	-1.0	3.0	1.0	28.0	34.6	0.0	0.0	0.0	28.0	34.6	0.0	0.0	0.0
78	25/06/2013 18.00	28.0	34.0	-3.0	4.0	0.0	28.0	34.0	-1.0	5.0	1.0	28.0	34.6	0.0	1.0	0.0	28.0	34.6	1.0	2.0	-1.0
79	01/07/2013 07.30	22.0	34.0	-2.0	5.0	0.0	22.0	34.0	-2.0	4.0	0.0	22.0	34.6	1.0	2.0	0.0	22.0	34.6	1.0	4.0	1.0
80	08/07/2013 17.30	25.0	34.0	-2.0	1.0	0.0	25.0	34.0	-1.0	2.0	0.0	25.0	34.6	2.0	0.0	0.0	25.0	34.6	2.0	1.0	0.0
81	13/07/2013 07.30	25.0	34.0	-3.0	4.0	2.0	25.0	34.0	-2.0	3.0	1.0	25.0	34.6	0.0	1.0	1.0	25.0	34.6	0.0	1.0	1.0
82	18/07/2013 07.30	25.0	34.0	-2.0	3.0	0.0	25.0	34.0	0.0	4.0	1.0	25.0	34.6	2.0	1.0	0.0	25.0	34.6	2.0	2.0	0.0
83	25/07/2013 18.00	27.0	34.0	-3.0	4.0	0.0	27.0	34.0	-1.0	4.0	1.0	27.0	34.6	1.0	1.0	0.0	27.0	34.6	1.0	2.0	0.0
84	31/07/2013 09.00	27.0	34.0	-2.0	5.0	0.0	27.0	34.0	-1.0	4.0	1.0	27.0	34.6	1.0	1.0	0.0	27.0	34.6	1.0	2.0	0.0
85	07/08/2013 09.00	29.0	34.0	-4.0	4.0	0.0	29.0	34.0	-1.0	4.0	1.0	29.0	34.6	1.0	1.0	1.0	29.0	34.6	1.0	1.0	0.0
86	13/08/2013 09.00	27.0	34.0	-4.0	3.0	1.0	27.0	34.0	-2.0	3.0	2.0	27.0	34.6	0.0	2.0	2.0	27.0	34.6	0.0	0.0	1.0
87	21/08/2013 07.30	23.0	34.0	-3.0	4.0	0.0	23.0	34.0	-1.0	6.0	2.0	23.0	34.6	2.0	2.0	1.0	23.0	34.6	1.0	3.0	1.0
88	28/08/2013 10.30	25.0	34.0	-1.0	3.0	2.0	25.0	34.0	0.0	3.0	4.0	25.0	34.6	3.0	0.0	2.0	25.0	34.6	3.0	0.0	2.0
89	06/09/2013 17.30	29.0	34.0	-2.0	4.0	1.0	29.0	34.0	-1.0	3.0	1.0	29.0	34.6	2.0	1.0	0.0	29.0	34.6	2.0	1.0	-1.0
90	13/09/2013 07.30	18.0	34.0	-3.0	4.0	0.0	18.0	34.0	-1.0	4.0	1.0	18.0	34.6	1.0	2.0	0.0	18.0	34.6	1.0	3.0	0.0
91	21/09/2013 09.30	21.0	34.0	-3.0	4.0	0.0	21.0	34.0	-2.0	4.0	2.0	21.0	34.6	0.0	0.0	0.0	21.0	34.6	0.0	1.0	0.0
92	26/09/2013 08.30	18.0	34.0	-3.0	3.0	1.0	18.0	34.0	-2.0	3.0	2.0	18.0	34.6	1.0	0.0	0.0	18.0	34.6	1.0	1.0	0.0
93	03/10/2013 16.30	20.0	34.0	-3.0	3.0	2.0	20.0	34.0	-1.0	3.0	2.0	20.0	34.6	1.0	-1.0	1.0	20.0	34.6	1.0	1.0	1.0
94	10/10/2013 08.30	16.0	34.0	-2.0	3.0	1.0	16.0	34.0	-1.0	4.0	2.0	16.0	34.6	1.0	1.0	0.0	16.0	34.6	1.0	1.0	-1.0
95	16/10/2013 14.30	23.0	34.0	-3.0	3.0	1.0	23.0	34.0	-2.0	3.0	2.0	23.0	34.6	0.0	0.0	1.0	23.0	34.6	0.0	1.0	0.0
96	24/10/2013 08.30	18.0	34.0	-3.0	5.0	1.0	18.0	34.0	-2.0	5.0	2.0	18.0	34.6	0.0	2.0	0.0	18.0	34.6	0.0	3.0	-1.0
97	31/10/2013 14.30	23.0	34.0	-4.0	3.0	1.0	23.0	34.0	-2.0	4.0	2.0	23.0	34.6	0.0	0.0	1.0	23.0	34.6	0.0	1.0	0.0
98	07/11/2013 08.30	11.0	34.0	-4.0	4.0	1.0	11.0	34.0	-2.0	4.0	1.0	11.0	34.6	0.0	1.0	0.0	11.0	34.6	0.0	2.0	-1.0
99	14/11/2013 14.30	20.0	34.0	-4.0	4.0	2.0	20.0	34.0	-2.0	3.0	3.0	20.0	34.6	0.0	0.0	1.0	20.0	34.6	0.0	2.0	0.0
100	25/11/2013 15.30	12.0	34.0	-4.0	4.0	0.0	12.0	34.0	-2.0	5.0	1.0	12.0	34.6	0.0	2.0	0.0	12.0	34.6	0.0	2.0	0.0
101	30/11/2013 08.30	7.0	34.0	-4.0	5.0	3.0	7.0	34.0	-2.0	5.0	2.0	7.0	34.6	0.0	2.0	1.0	7.0	34.6	0.0	3.0	1.0
102	05/12/2013 08.30	7.0	34.0	-4.0	3.0	1.0	7.0	34.0	-2.0	4.0	3.0	7.0	34.6	0.0	1.0	0.0	7.0	34.6	0.0	3.0	1.0
103	19/12/2013 13.00	8.0	34.0	-5.0	2.0	1.0	8.0	34.0	-3.0	3.0	2.0	8.0									

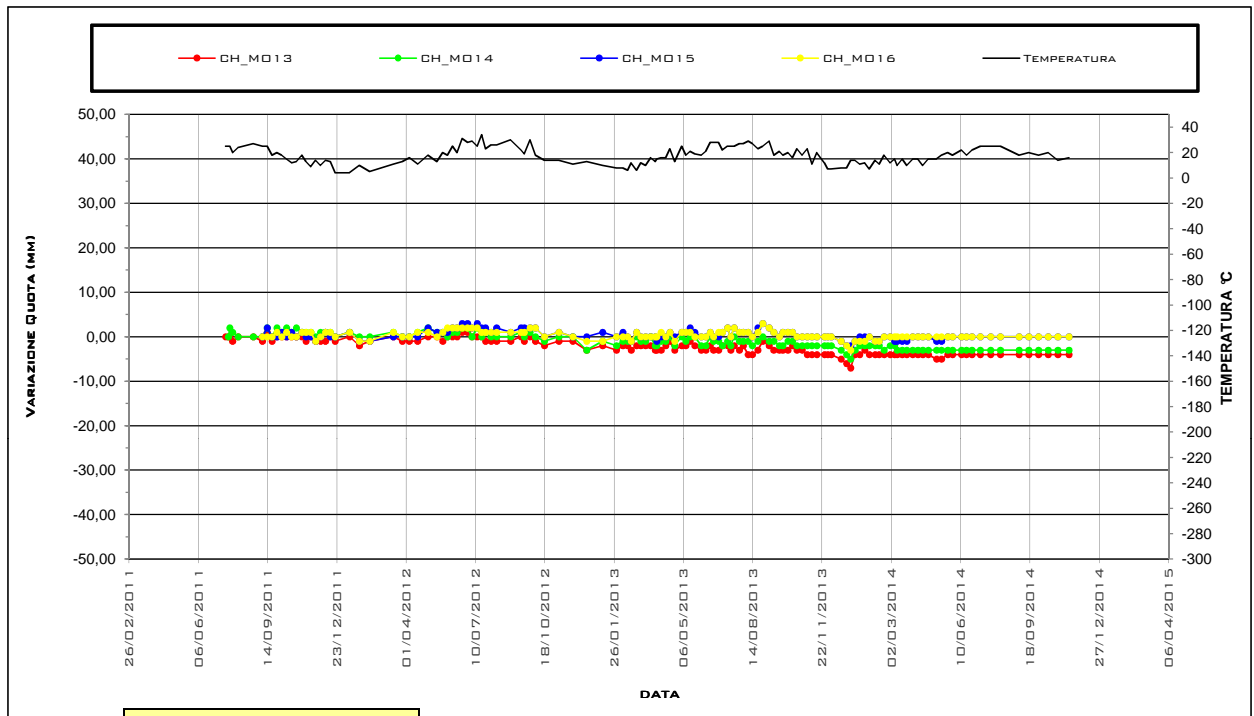


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ I Ordine di Tiranti \ 13-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 15/07/2011  
**Data lettura di zero** 15/07/2011

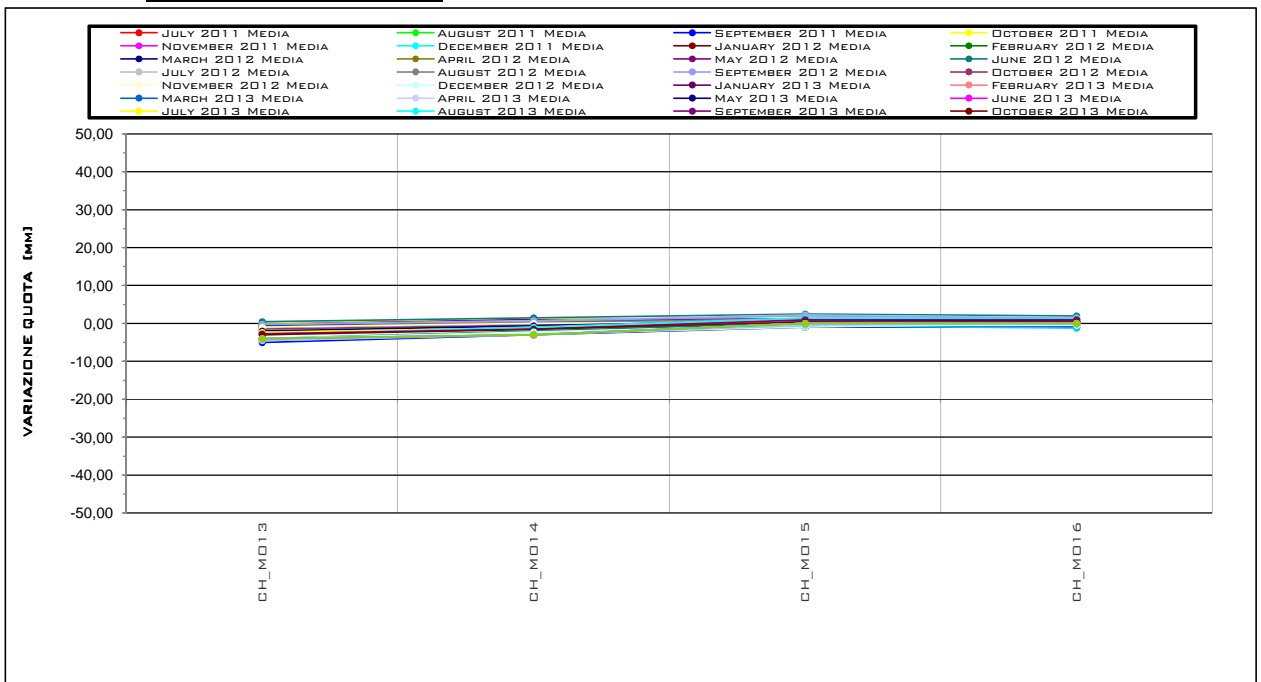
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**GRAFICO QUOTA**



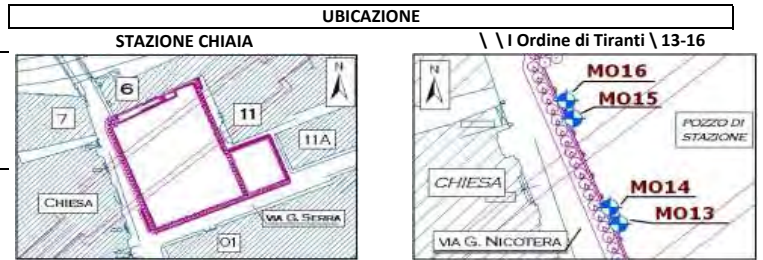
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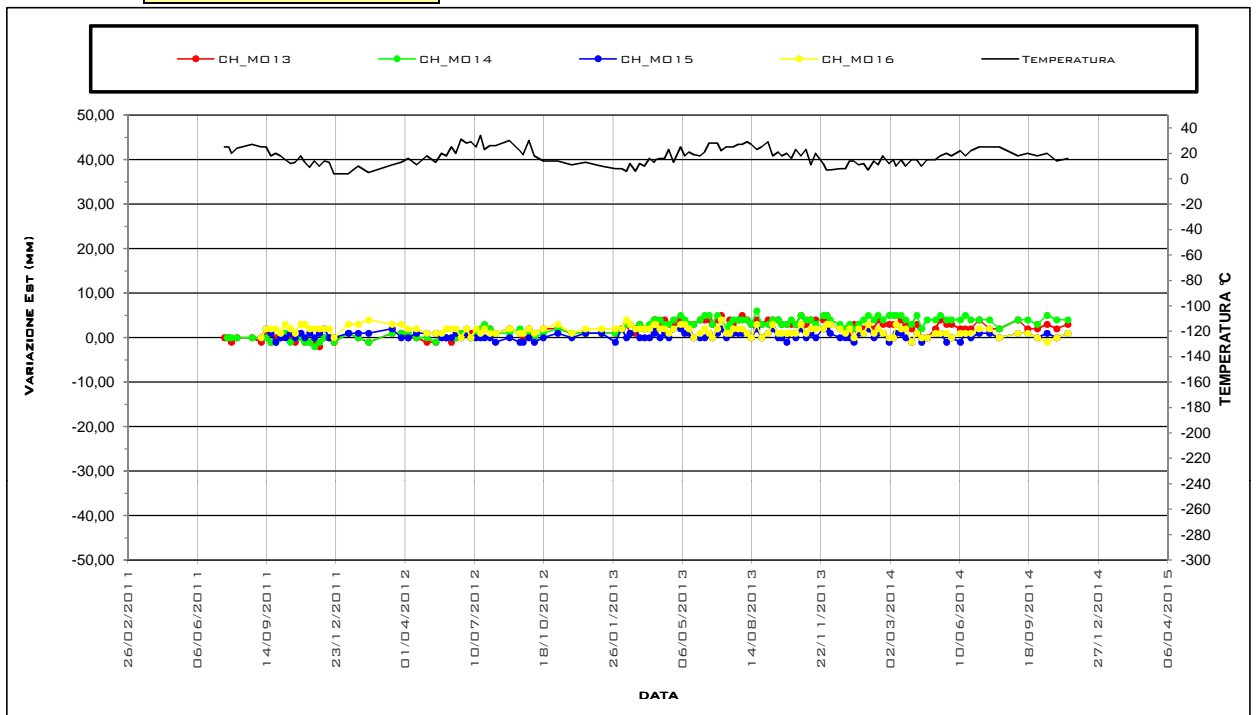




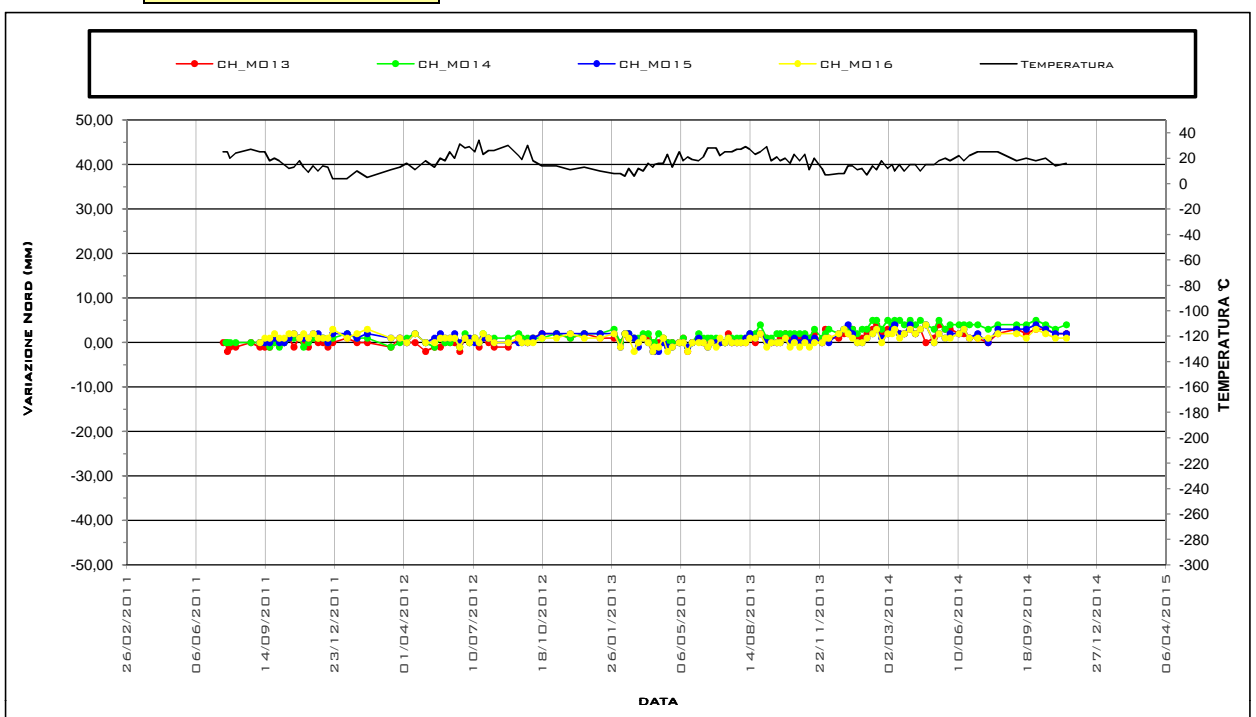
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ | Ordine di Tiranti \ 13-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 15/07/2011  
**Data lettura di zero** 15/07/2011



**GRAFICO EST**



**GRAFICO NORD**





Ubicazione STAZIONE CHIAIA

Opera \ \ II Ordine di Tiranti \ 17-20

Tipo Strumento Mire Ottiche

Data posa in opera 17/04/2012

Data lettura di zero 17/04/2012

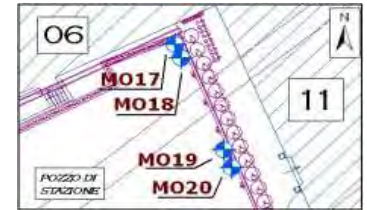
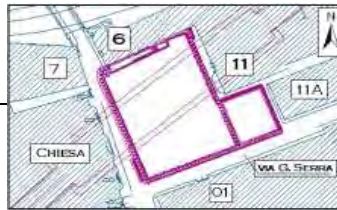
Ultima Misura 120 in data 13/11/2014

Letto. n°	DATA	CH_M017					CH_M018					CH_M019					CH_M020				
		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]
30	13/09/2012 15.00	22.0	26.5	0.0	3.0	3.0	22.0	26.4	0.0	3.0	2.0	22.0	28.7	0.0	1.0	2.0	22.0	28.7	1.0	-1.0	0.0
31	18/09/2012 08.00	19.0	26.5	0.0	1.0	1.0	19.0	26.4	0.0	2.0	2.0	19.0	28.7	0.0	0.0	1.0	19.0	28.7	1.0	0.0	0.0
32	26/09/2012 15.00	30.0	26.5	1.0	0.0	1.0	30.0	26.4	1.0	1.0	1.0	30.0	28.7	1.0	-1.0	1.0	30.0	28.7	1.0	-1.0	0.0
33	04/10/2012 09.00	18.0	26.5	1.0	2.0	2.0	18.0	26.4	0.0	2.0	2.0	18.0	28.7	0.0	0.0	1.0	18.0	28.7	0.0	0.0	0.0
34	17/10/2012 08.30	14.0	26.5	1.0	1.0	1.0	14.0	26.4	1.0	2.0	2.0	14.0	28.7	0.0	-1.0	2.0	14.0	28.7	1.0	-2.0	0.0
35	07/11/2012 08.30	14.0	26.5	-1.0	1.0	1.0	14.0	26.4	0.0	1.0	2.0	14.0	28.7	0.0	1.0	1.0	14.0	28.7	0.0	-1.0	-1.0
36	27/11/2012 08.30	11.0	26.5	0.0	1.0	0.0	11.0	26.4	1.0	2.0	0.0	11.0	28.7	0.0	0.0	0.0	11.0	28.7	1.0	-3.0	-2.0
37	17/12/2012 08.30	13.0	26.5	-1.0	1.0	1.0	13.0	26.4	0.0	1.0	1.0	13.0	28.7	-1.0	0.0	1.0	13.0	28.7	-1.0	-1.0	0.0
38	09/01/2013 08.30	10.0	26.5	-1.0	1.0	1.0	10.0	26.4	1.0	1.0	1.0	10.0	28.7	-1.0	-1.0	1.0	10.0	28.7	0.0	-2.0	0.0
39	29/01/2013 08.30	8.0	26.5	0.0	0.0	0.0	8.0	26.4	0.0	1.0	1.0	8.0	28.7	-1.0	-1.0	1.0	8.0	28.7	0.0	-2.0	-1.0
40	07/02/2013 15.00	8.0	26.5	1.0	2.0	1.0	8.0	26.4	1.0	3.0	2.0	8.0	28.7	0.0	0.0	1.0	8.0	28.7	2.0	-2.0	-1.0
41	14/02/2013 08.30	6.0	26.5	0.0	1.0	0.0	6.0	26.4	0.0	2.0	0.0	6.0	28.7	0.0	-1.0	0.0	6.0	28.7	0.0	-2.0	-2.0
42	19/02/2013 15.30	12.0	26.5	1.0	-1.0	-1.0	12.0	26.4	0.0	0.0	0.0	12.0	28.7	0.0	-1.0	0.0	12.0	28.7	0.0	-3.0	-2.0
43	27/02/2013 08.30	6.0	26.5	1.0	1.0	1.0	6.0	26.4	1.0	1.0	0.0	6.0	28.7	0.0	0.0	0.0	6.0	28.7	0.0	-3.0	-2.0
44	05/03/2013 10.30	12.0	26.5	0.0	0.0	0.0	12.0	26.4	0.0	1.0	1.0	12.0	28.7	-1.0	0.0	1.0	12.0	28.7	-1.0	-1.0	-1.0
45	12/03/2013 10.30	10.0	26.5	1.0	1.0	2.0	10.0	26.4	1.0	1.0	1.0	10.0	28.7	0.0	-1.0	1.0	10.0	28.7	1.0	-2.0	-1.0
46	19/03/2013 16.00	16.0	26.5	2.0	1.0	-1.0	16.0	26.4	1.0	3.0	1.0	16.0	28.7	0.0	0.0	1.0	16.0	28.7	0.0	-1.0	0.0
47	26/03/2013 08.30	13.0	26.5	1.0	2.0	0.0	13.0	26.4	0.0	3.0	1.0	13.0	28.7	0.0	0.0	0.0	13.0	28.7	0.0	-1.0	-2.0
48	28/03/2013 11.00	15.0	26.5	2.0	1.0	0.0	15.0	26.4	1.0	2.0	1.0	15.0	28.7	0.0	-1.0	1.0	15.0	28.7	1.0	-1.0	-1.0
49	03/04/2013 17.30	16.0	26.5	-1.0	1.0	-1.0	16.0	26.4	0.0	0.0	0.0	16.0	28.7	-1.0	-1.0	1.0	16.0	28.7	-1.0	-2.0	-1.0
50	10/04/2013 10.30	16.0	26.5	1.0	1.0	1.0	16.0	26.4	1.0	2.0	1.0	16.0	28.7	0.0	0.0	2.0	16.0	28.7	1.0	-2.0	-1.0
51	16/04/2013 15.00	23.0	26.5	0.0	1.0	0.0	23.0	26.4	0.0	1.0	-1.0	23.0	28.7	-2.0	1.0	0.0	23.0	28.7	-1.0	-2.0	-2.0
52	23/04/2013 08.30	13.0	26.5	0.0	0.0	0.0	13.0	26.4	1.0	1.0	1.0	13.0	28.7	-1.0	0.0	1.0	13.0	28.7	0.0	-2.0	-1.0
53	03/05/2013 14.30	25.0	26.5	1.0	1.0	0.0	25.0	26.4	2.0	2.0	1.0	25.0	28.7	0.0	0.0	1.0	25.0	28.7	0.0	0.0	0.0
54	09/05/2013 08.30	18.0	26.5	1.0	2.0	1.0	18.0	26.4	2.0	1.0	1.0	18.0	28.7	0.0	-1.0	2.0	18.0	28.7	1.0	-3.0	-1.0
55	15/05/2013 14.30	21.0	26.5	0.0	0.0	-1.0	21.0	26.4	1.0	2.0	0.0	21.0	28.7	-1.0	2.0	1.0	21.0	28.7	0.0	0.0	-1.0
56	22/05/2013 08.30	19.0	26.5	0.0	2.0	-1.0	19.0	26.4	1.0	2.0	-1.0	19.0	28.7	-1.0	1.0	0.0	19.0	28.7	0.0	-1.0	-2.0
57	31/05/2013 15.30	18.0	26.5	2.0	1.0	-1.0	18.0	26.4	1.0	2.0	-1.0	18.0	28.7	1.0	-1.0	0.0	18.0	28.7	1.0	-1.0	-2.0
58	07/06/2013 08.30	21.0	26.5	1.0	1.0	0.0	21.0	26.4	0.0	2.0	1.0	21.0	28.7	0.0	0.0	1.0	21.0	28.7	0.0	-2.0	-1.0
59	13/06/2013 14.30	28.0	26.5	2.0	2.0	0.0	28.0	26.4	2.0	3.0	0.0	28.0	28.7	0.0	1.0	1.0	28.0	28.7	1.0	1.0	-2.0
60	18/06/2013 09.00	28.0	26.5	1.0	1.0	1.0	28.0	26.4	0.0	2.0	1.0	28.0	28.7	-1.0	0.0	2.0	28.0	28.7	0.0	-1.0	-1.0
61	25/06/2013 18.00	28.0	26.5	1.0	1.0	0.0	28.0	26.4	1.0	3.0	1.0	28.0	28.7	0.0	1.0	1.0	28.0	28.7	0.0	0.0	-2.0
62	01/07/2013 07.30	22.0	26.5	1.0	1.0	0.0	22.0	26.4	1.0	2.0	1.0	22.0	28.7	0.0	1.0	0.0	22.0	28.7	0.0	-1.0	-1.0
63	08/07/2013 17.30	25.0	26.5	2.0	2.0	1.0	25.0	26.4	1.0	2.0	1.0	25.0	28.7	0.0	0.0	1.0	25.0	28.7	0.0	0.0	0.0
64	13/07/2013 07.30	25.0	26.5	1.0	1.0	1.0	25.0	26.4	2.0	2.0	2.0	25.0	28.7	0.0	-1.0	2.0	25.0	28.7	1.0	-2.0	-1.0
65	18/07/2013 07.30	25.0	26.5	1.0	1.0	1.0	25.0	26.4	1.0	2.0	1.0	25.0	28.7	0.0	0.0	1.0	25.0	28.7	1.0	-1.0	0.0
66	25/07/2013 18.00	27.0	26.5	2.0	0.0	0.0	27.0	26.4	1.0	1.0	1.0	27.0	28.7	0.0	0.0	2.0	27.0	28.7	0.0	0.0	0.0
67	31/07/2013 09.00	27.0	26.5	1.0	1.0	1.0	27.0	26.4	1.0	1.0	1.0	27.0	28.7	0.0	-1.0	1.0	27.0	28.7	0.0	-1.0	0.0
68	07/08/2013 09.00	29.0	26.5	1.0	1.0	2.0	29.0	26.4	1.0	1.0	2.0	29.0	28.7	-1.0	0.0	2.0	29.0	28.7	0.0	-1.0	0.0
69	13/08/2013 09.00	27.0	26.5	0.0	2.0	3.0	27.0	26.4	0.0	2.0	3.0	27.0	28.7	-2.0	1.0	2.0	27.0	28.7	-1.0	-1.0	0.0
70	21/08/2013 07.30	23.0	26.5	1.0	2.0	0.0	23.0	26.4	1.0	3.0	1.0	23.0	28.7	-1.0	1.0	1.0	23.0	28.7	0.0	0.0	0.0
71	28/08/2013 10.30	25.0	26.5	2.0	1.0	0.0	25.0	26.4	2.0	1.0	1.0	25.0	28.7	-1.0	1.0	2.0	25.0	28.7	0.0	0.0	0.0
72	06/09/2013 17.30	29.0	26.5	2.0	1.0	1.0	29.0	26.4	2.0	3.0	0.0	29.0	28.7	-1.0	1.0	1.0	29.0	28.7	0.0	-1.0	-1.0
73	13/09/2013 07.30	18.0	26.5	2.0	2.0	1.0	18.0	26.4	2.0	3.0	0.0	18.0	28.7	-1.0	2.0	2.0	18.0	28.7	0.0	0.0	0.0
74	21/09/2013 09.30	21.0	26.5	3.0	1.0	-1.0	21.0	26.4	2.0	3.0	0.0	21.0	28.7	-1.0	1.0	1.0	21.0	28.7	0.0	0.0	-1.0
75	26/09/2013 09.30	18.0	26.5	3.0	1.0	0.0	18.0	26.4	2.0	2.0	1.0	18.0	28.7	-1.0	0.0	1.0	18.0	28.7	-1.0	0.0	-1.0
76	03/10/2013 16.30	20.0	26.5	3.0	3.0	-1.0	20.0	26.4	2.0	3.0	1.0	20.0	28.7	-1.0	1.0	1.0	20.0	28.7	0.0	1.0	-1.0
77	10/10/2013 18.00	16.0	26.5	3.0	3.0	2.0	16.0	26.4	3.0	3.0	1.0	16.0	28.7	0.0	1.0	2.0	16.0	28.7	0.0	0.0	1.0
78	16/10/2013 14.30	23.0	26.5	2.0	1.0	1.0	23.0	26.4	3.0	3.0	1.0	23.0	28.7	-1.0	0.0	2.0	23.0	28.7	0.0	-1.0	0.0
79	24/10/2013 08.30	18.0	26.5	2.0	2.0	2.0	18.0	26.4	2.0	3.0	2.0	18.0	28.7	-2.0	1.0	3.0	18.0	28.7	-1.0	0.0	0.0
80	31/10/2013 14.30	23.0	26.5	2.0	3.0	1.0	23.0	26.4	2.0	4.0	1.0	23.0	28.7	-1.0	1.0	2.0	23.0	28.7	0.0	0.0	0.0
81	07/11/2013 08.30	11.0	26.5	2.0	3.0	2.0	11.0	26.4	2.0	4.0	2.0	11.0	28.7	-1.0	2.0	2.0	11.0	28.7	-1.0	1.0	0.0
82	14/11/2013 14.30	20.0	26.5	2.0	3.0	1.0	20.0	26.4	2.0	3.0	1.0	20.0	28.7	-1.0	2.0	2.0	20.0	28.7	-1.0	0.0	0.0
83	25/11/2013 15.30	12.0	26.5	2.0	3.0	2.0	12.0	26.4	2.0	4.0	2.0	12.0	28.7	-1.0	0.0	2.0	12.0	28.7	-1.0	0.0	1.0
84	30/11/2013 08.30	7.0	26.5	2.0	2.0	1.0	7.0	26.4	2.0	3.0	2.0	7.0	28.7	-1.0	2.0	2.0	7.0	28.7	-1.0	0.0	0.0
85	05/12/2013 08.30	7.0	26.5	3.0	3.0	1.0	7.0	26.4	2.0	4.0	2.0	7.0	28.7	-1.0	1.0	1.0	7.0	28.7	-1.0	0.0	0.0
86	19/12/2013 13.00	8.0	26.5	2.0	2.0	2.0	8.0	26.4	1.0	2.0	2.0	8.									

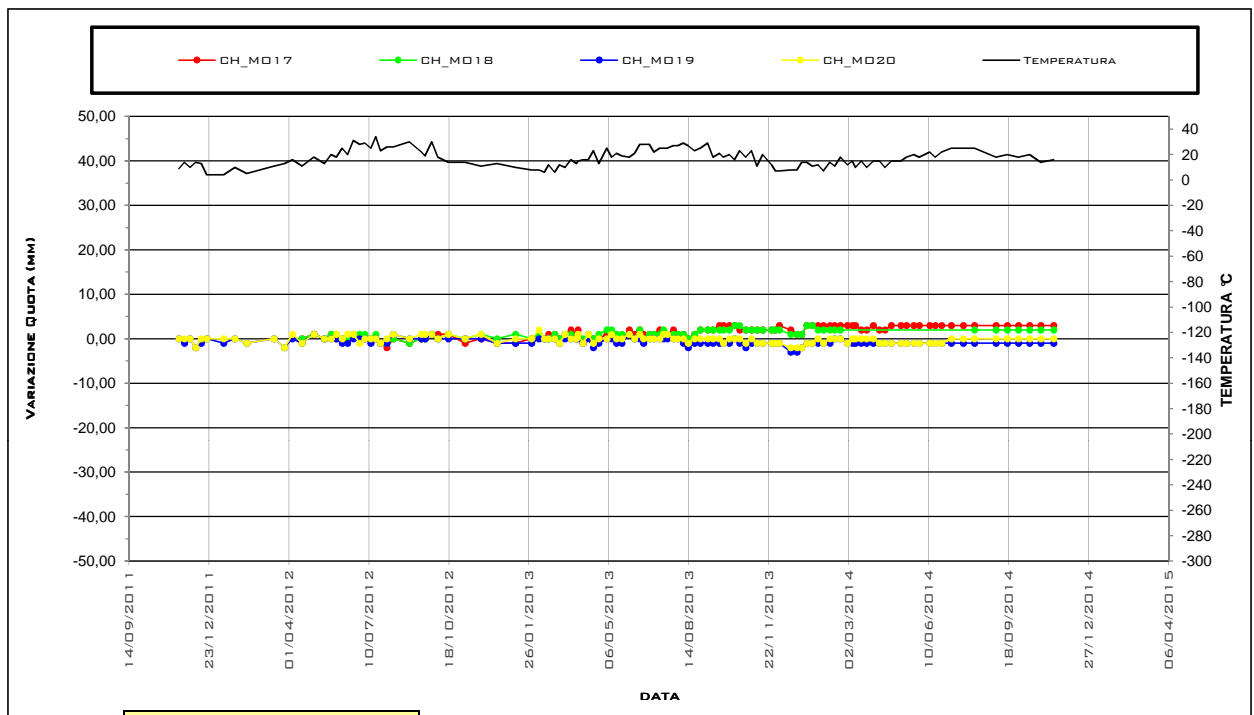


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Il Ordine di Tiranti \ 17-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 17/04/2012  
**Data lettura di zero** 17/04/2012

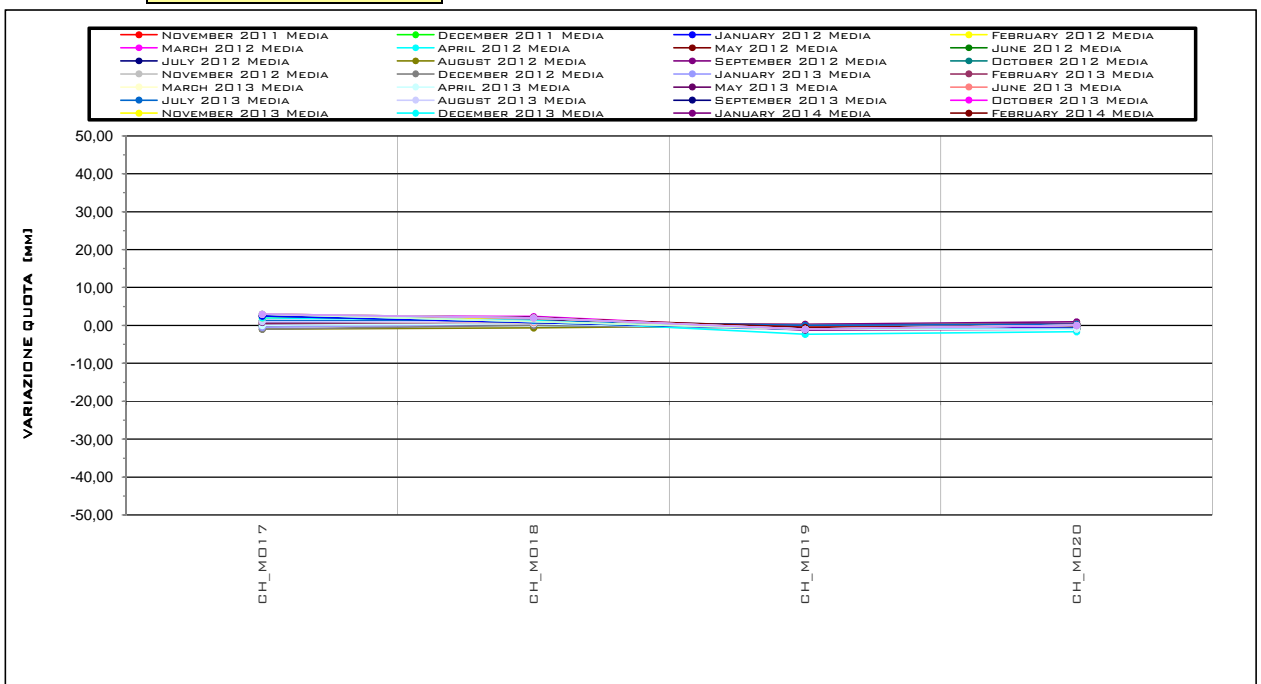
**UBICAZIONE**  
STAZIONE CHIAIA \ \ Il Ordine di Tiranti \ 17-20



**GRAFICO QUOTA**

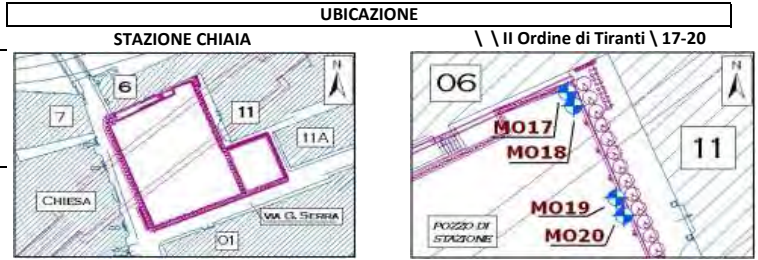


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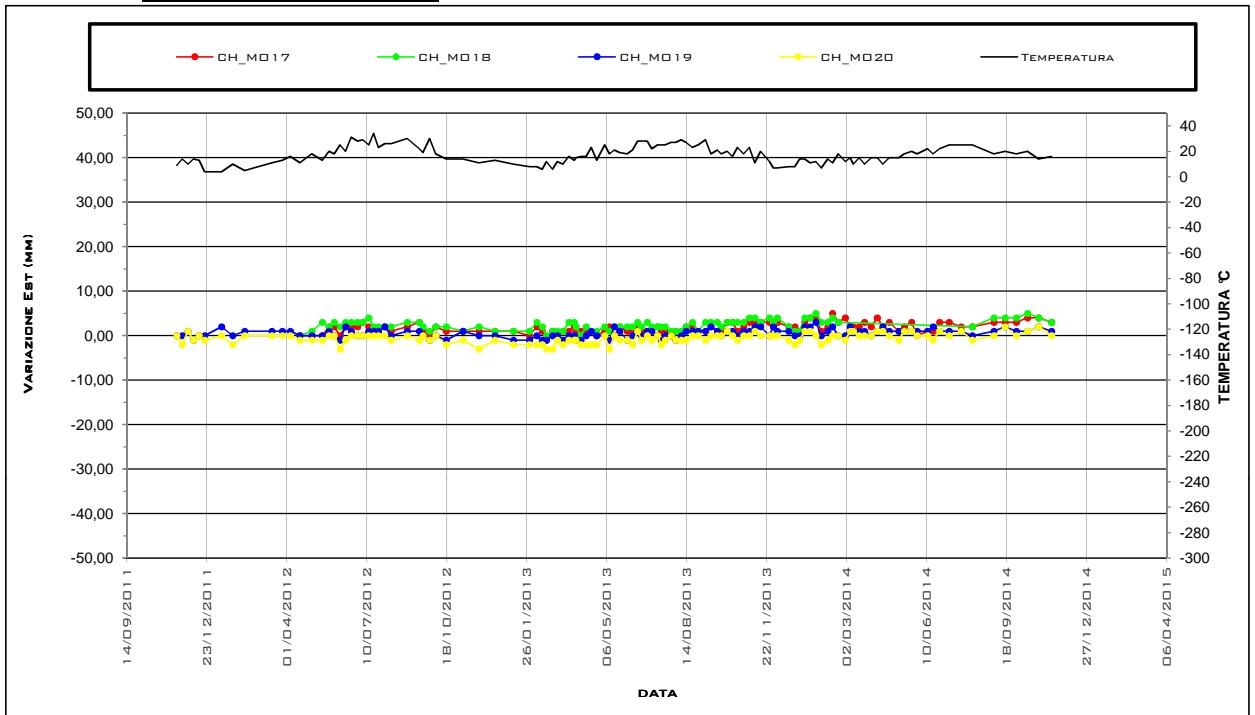




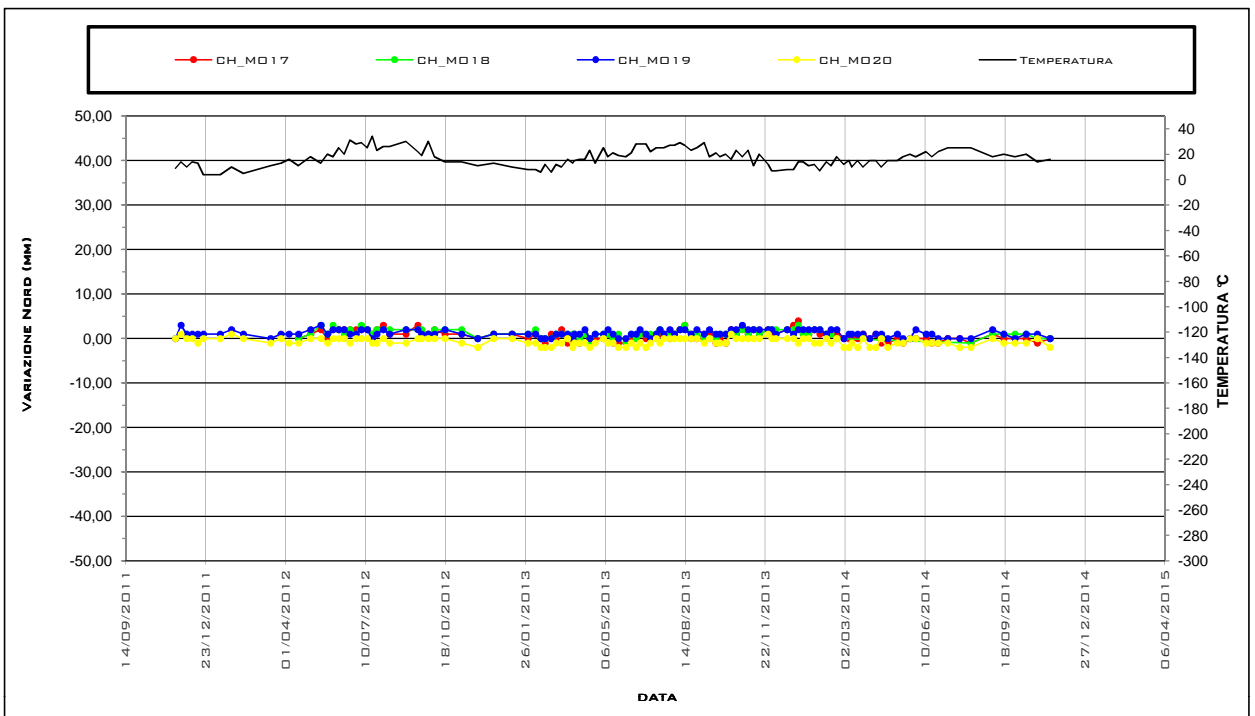
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Il Ordine di Tiranti \ 17-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 17/04/2012  
**Data lettura di zero** 17/04/2012



**GRAFICO EST**



**GRAFICO NORD**





**Ubicazione STAZIONE CHIAIA**

**Opera \ \ II Ordine di Tiranti \ 21-24**

**Tipo Strumento Mire Ottiche**

**Data posa in opera 02/08/2011**

**Data lettura di zero 02/08/2011**

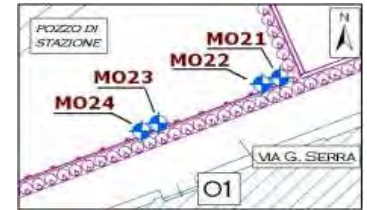
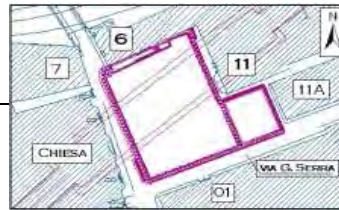
**Ultima Misura** 131 **in data** 13/11/2014

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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 08.00	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	11,0	28,9	-1,0	3,0	4,0	11,0	28,9	-2,0	1,0	5,0	11,0	28,8	-3,0	-4,0	8,0	11,0	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	-2,0	-7,0	8,0	16,0	28,8	-3,0	-7,0	7,0
58	26/03/2013 08.30	13,0	28,9	0,0	1,0	4,0	13,0	28,9	-1,0	-1,0	5,0	13,0	28,8	-2,0	-5,0	5,0	13,0	28,8	-3,0	-4,0	5,0
59	28/03/2013 11.00	15,0	28,9	0,0	3,0	5,0	15,0	28,9	-1,0	1,0	7,0	15,0	28,8	-2,0	-5,0	6,0	15,0	28,8	-3,0	-5,0	5,0
60	03/04/2013 17.30	16,0	28,9	-1,0	2,0	6,0	16,0	28,9	-2,0	0,0	7,0	16,0	28,8	-1,0	-4,0	6,0	16,0	28,8	-2,0	-4,0	6,0
61	10/04/2013 10.30	16,0	28,9	0,0	2,0	6,0	16,0	28,9	0,0	0,0	7,0	16,0	28,8	-2,0	-4,0	8,0	16,0	28,8	-3,0	-5,0	6,0
62	16/04/2013 15.00	23,0	28,9	0,0	6,0	5,0	23,0	28,9	-2,0	3,0	7,0	23,0	28,8	-2,0	-6,0	6,0	23,0	28,8	-2,0	-5,0	4,0
63	23/04/2013 08.30	13,0	28,9	0,0	3,0	8,0	13,0	28,9	-2,0	3,0	7,0	13,0	28,8	-2,0	-5,0	6,0	13,0	28,8	-3,0	-5,0	5,0
64	03/05/2013 14.30	25,0	28,9	0,0	7,0	7,0	25,0	28,9	-1,0	5,0	7,0	25,0	28,8	-1,0	-4,0	7,0	25,0	28,8	-2,0	-4,0	6,0
65	09/05/2013 08.30	18,0	28,9	0,0	3,0	7,0	18,0	28,9	-2,0	2,0	8,0	18,0	28,8	-1,0	-4,0	8,0	18,0	28,8	-2,0	-5,0	7,0
66	15/05/2013 14.30	21,0	28,9	0,0	6,0	6,0	21,0	28,9	-1,0	4,0	6,0	21,0	28,8	-1,0	-7,0	3,0	21,0	28,8	-2,0	-6,0	3,0
67	22/05/2013 08.30	19,0	28,9	0,0	5,0	6,0	19,0	28,9	-1,0	3,0	7,0	19,0	28,8	-1,0	-6,0	6,0	19,0	28,8	-2,0	-6,0	6,0
68	31/05/2013 15.30	18,0	28,9	1,0	3,0	4,0	18,0	28,9	0,0	2,0	5,0	18,0	28,8	-2,0	-5,0	9,0	18,0	28,8	-3,0	-5,0	7,0
69	07/06/2013 08.30	21,0	28,9	0,0	5,0	6,0	21,0	28,9	-1,0	3,0	7,0	21,0	28,8	-2,0	-6,0	7,0	21,0	28,8	-3,0	-6,0	6,0
70	13/06/2013 14.30	28,0	28,9	1,0	7,0	6,0	28,0	28,9	0,0	5,0	7,0	28,0	28,8	-1,0	-4,0	7,0	28,0	28,8	-1,0	-4,0	5,0
71	18/06/2013 09.00	28,0	28,9	-1,0	5,0	7,0	28,0	28,9	-2,0	4,0	8,0	28,0	28,8	-1,0	-6,0	8,0	28,0	28,8	-2,0	-6,0	7,0
72	25/06/2013 18.00	28,0	28,9	0,0	7,0	6,0	28,0	28,9	-1,0	6,0	6,0	28,0	28,8	-1,0	-6,0	7,0	28,0	28,8	-2,0	-5,0	6,0
73	01/07/2013 07.30	22,0	28,9	1,0	7,0	7,0	22,0	28,9	-1,0	6,0	8,0	22,0	28,8	0,0	-6,0	5,0	22,0	28,8	0,0	-6,0	5,0
74	08/07/2013 17.30	25,0	28,9	1,0	5,0	7,0	25,0	28,9	-1,0	5,0	8,0	25,0	28,8	1,0	-9,0	5,0	25,0	28,8	0,0	-9,0	4,0
75	13/07/2013 07.30	25,0	28,9	0,0	6,0	8,0	25,0	28,9	-1,0	5,0	9,0	25,0	28,8	0,0	-8,0	7,0	25,0	28,8	-2,0	-8,0	5,0
76	18/07/2013 07.30	25,0	28,9	-1,0	7,0	8,0	25,0	28,9	-1,0	5,0	8,0	25,0	28,8	1,0	-7,0	6,0	25,0	28,8	-1,0	-8,0	5,0
77	25/07/2013 18.00	27,0	28,9	0,0	8,0	9,0	27,0	28,9	-1,0	6,0	9,0	27,0	28,8	0,0	-7,0	6,0	27,0	28,8	-1,0	-7,0	5,0
78	31/07/2013 09.00	27,0	28,9	0,0	6,0	9,0	27,0	28,9	-2,0	6,0	9,0	27,0	28,8	1,0	-6,0	8,0	27,0	28,8	-1,0	-6,0	7,0
79	07/08/2013 09.00	29,0	28,9	0,0	7,0	7,0	29,0	28,9	-2,0	6,0	7,0	29,0	28,8	-1,0	-6,0	7,0	29,0	28,8	-2,0	-6,0	5,0
80	13/08/2013 09.00	27,0	28,9	0,0	8,0	6,0	27,0	28,9	-1,0	7,0	6,0	27,0	28,8	-2,0	-6,0	6,0	27,0	28,8	-3,0	-6,0	4,0
81	21/08/2013 07.30	23,0	28,9	0,0	10,0	8,0	23,0	28,9	0,0	8,0	9,0	23,0	28,8	1,0	-7,0	7,0	23,0	28,8	0,0	-7,0	6,0
82	28/08/2013 10.30	25,0	28,9	0,0	10,0	8,0	25,0	28,9	-1,0	7,0	9,0	25,0	28,8	1,0	-8,0	10,0	25,0	28,8	0,0	-9,0	8,0
83	06/09/2013 17.30						29,0	28,9	-1,0	5,0	10,0	29,0	28,8	0,0	-8,0	8,0	29,0	28,8	-1,0	-8,0	5,0
84	13/09/2013 07.30	18,0	28,9	2,0	8,0	8,0	18,0	28,9	0,0	6,0	9,0	18,0	28,8	0,0	-8,0	7,0	18,0	28,8	-1,0	-7,0	5,0
85	21/09/2013 09.30	21,0	28,9	1,0	7,0	7,0	21,0	28,9	-1,0	6,0	8,0	21,0	28,8	0,0	-8,0	8,0	21,0	28,8	-1,0	-7,0	7,0
86	26/09/2013 09.30	18,0	28,9	1,0	9,0	8,0	18,0	28,9	0,0	6,0	9,0	18,0	28,8	0,0	-9,0	8,0	18,0	28,8	-1,0	-8,0	6,0
87	03/10/2013 16.30	20,0	28,9	2,0	8,0	8,0	20,0	28,9	1,0	5,0	8,0	20,0	28,8	0,0	-8,0	7,0	20,0	28,8	-1,0	-8,0	6,0
88	10/10/2013 08.30	16,0	28,9	2,0	10,0	10,0	16,0	28,9	2,0	8,0	10,0	16,0	28,8	0,0	-8,0	7,0	16,0	28,8	-1,0	-8,0	5,0
89	16/10/2013 14.30	23,0	28,9	1,0	9,0	10,0	23,0	28,9	0,0	6,0	10,0	23,0	28,8	-1,0	-8,0	8,0	23,0	28,8	-2,0	-8,0	7,0
90	24/10/2013 08.30	18,0	28,9	1,0	9,0	10,0	18,0	28,9	0,0	6,0	11,0	18,0	28,8	-1,0	-7,0	7,0	18,0	28,8	-2,0	-6,0	6,0
91	31/10/2013 14.30	23,0	28,9	1,0	9,0	11,0	23,0	28,9	0,0	6,0	10,0	23,0	28,8	-1,0	-8,0	8,0	23,0	28,8	-2,0	-8,0	7,0
92	07/11/2013 08.30	11,0	28,9	0,0	9,0	11,0	11,0	28,9	0,0	6,0	10,0	11,0	28,8	-1,0	-8,0	6,0	11,0	28,8	-2,0	-8,0	6,0
93	14/11/2013 14.30	20,0	28,9	0,0	7,0	11,0	20,0	28,9	0,0	8,0	11,0	20,0	28,8	-1,0	-9,0	7,0	20,0	28,8	-2,0	-8,0	6,0
94	25/11/2013 15.30	12,0	28,9	0,0	7,0	10,0	12,0	28,9	1,0	7,0	11,0	12,0	28,8	-1,0	-7,0	7,0	12,0	28,8	-2,0	-7,0	6,0
95	30/11/2013 08.30	7,0	28,9	1,0	8,0	11,0	7,0	28,9	1,0	7,0	10,0	7,0	28,8	-1,0	-7,0	9,0	7,0	28,8	-2,0	-7,0	7,0
96	05/12/2013 08.30	7,0	28,9	2,0	7,0	9,0	7,0	28,9	1,0	6,0	9,0	7,0	28,8	0,0	-8,0	6,0	7,0	28,8	-2,0	-8,0	6,0
97	19/12/2013 13.00	8,0	28,9	2,0	5,0	7,0															

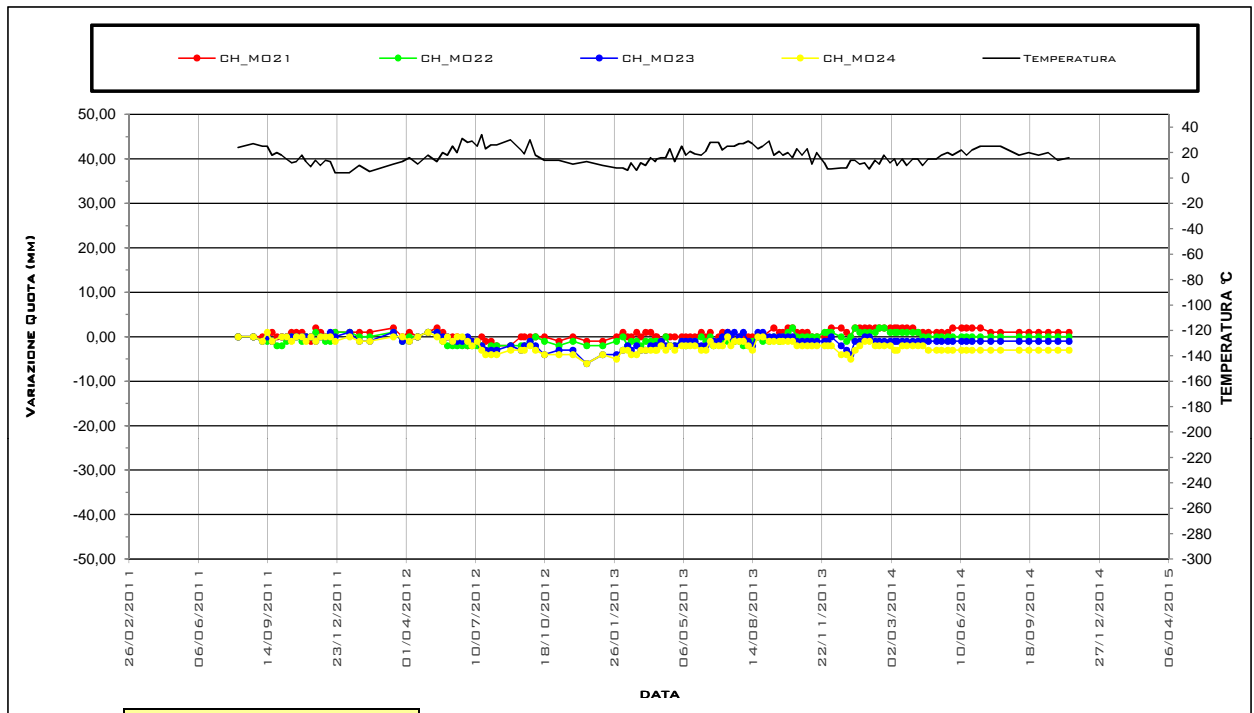


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Il Ordine di Tiranti \ 21-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 02/08/2011  
**Data lettura di zero** 02/08/2011

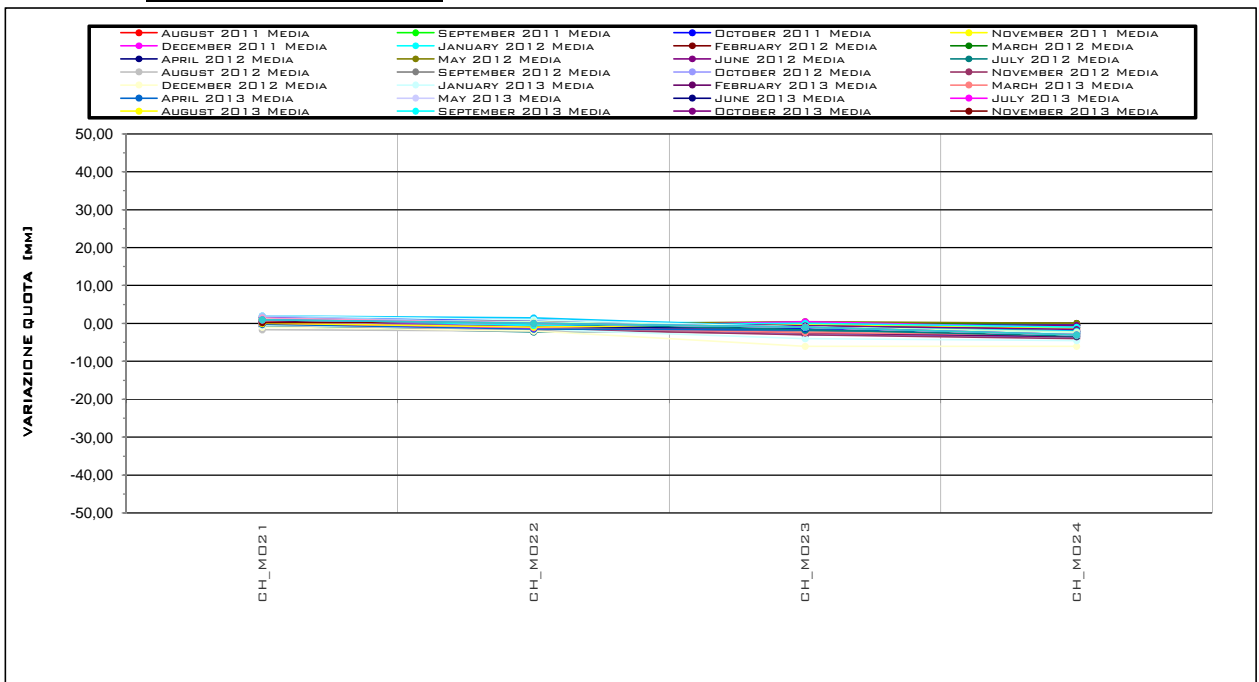
**UBICAZIONE**  
STAZIONE CHIAIA \ \ Il Ordine di Tiranti \ 21-24



**GRAFICO QUOTA**

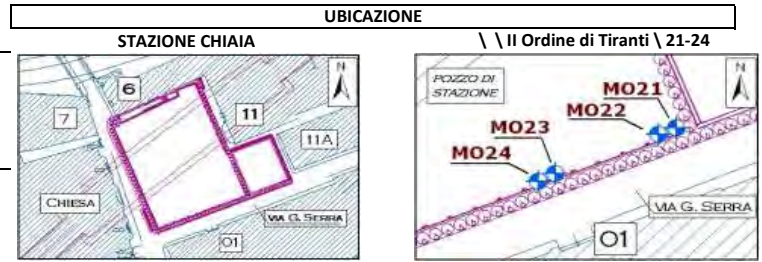


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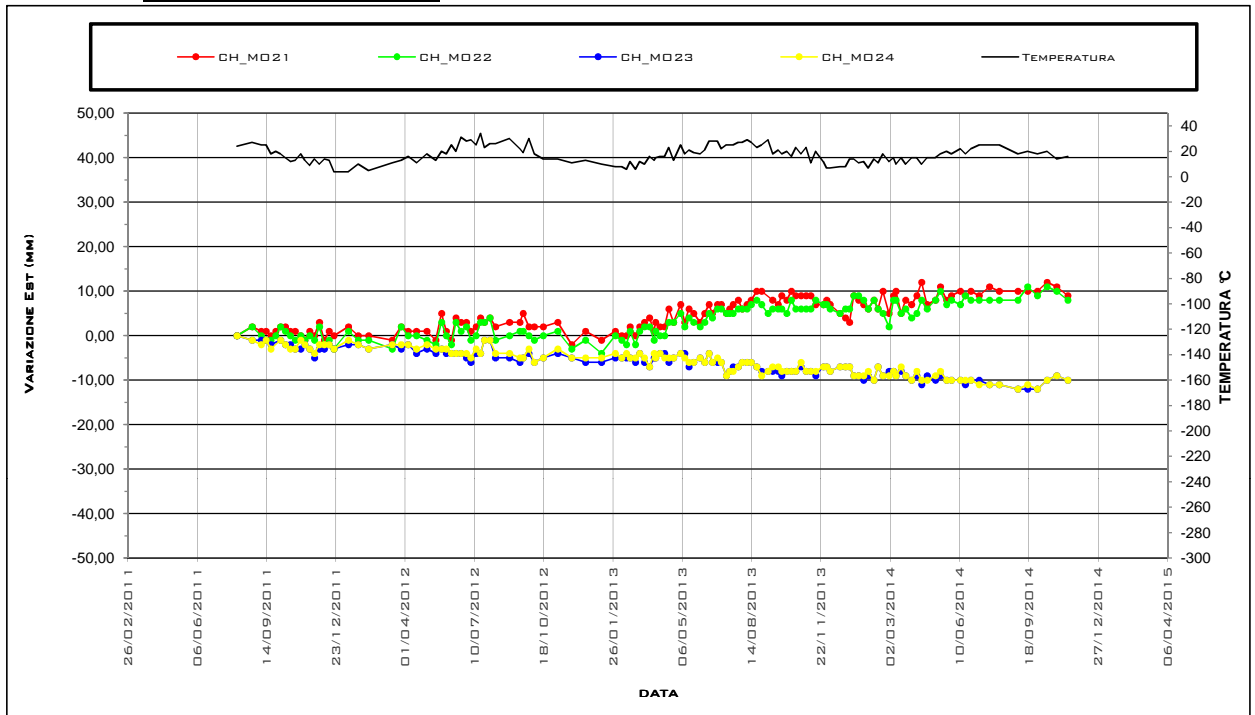




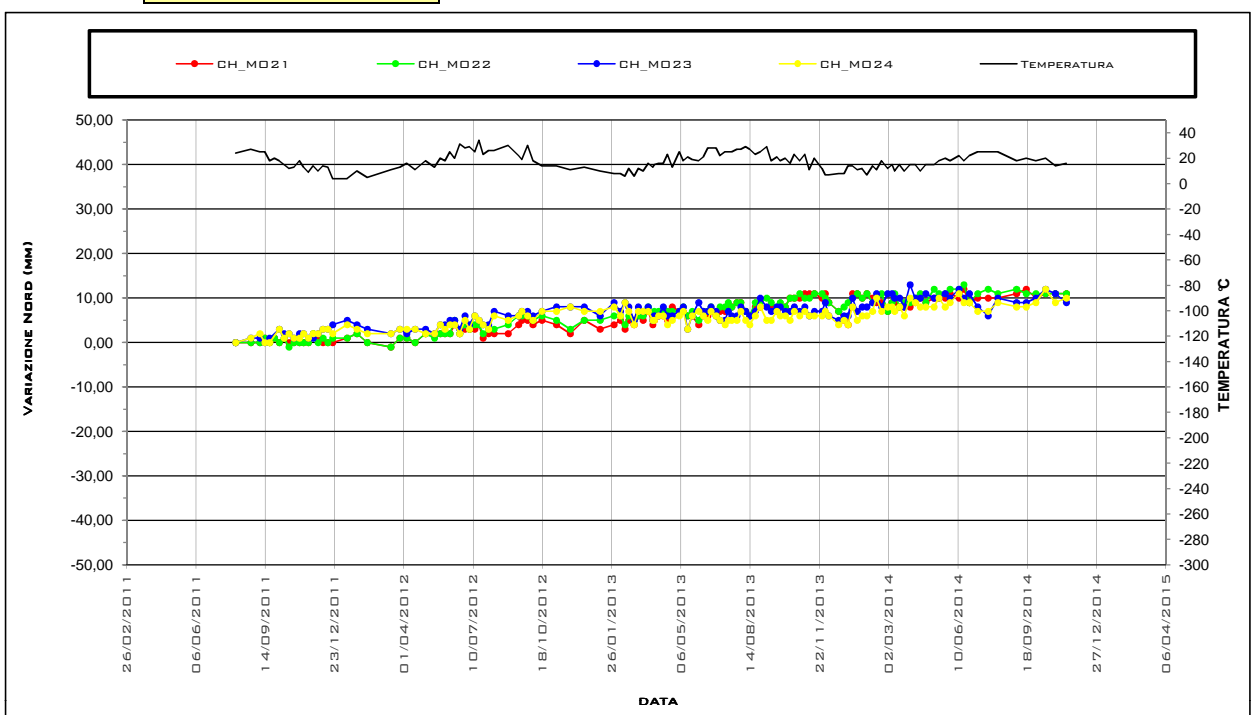
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Il Ordine di Tiranti \ 21-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 02/08/2011  
**Data lettura di zero** 02/08/2011



**GRAFICO EST**



**GRAFICO NORD**





Ubicazione STAZIONE CHIAIA

Opera \ \ Il 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 133 in data 13/11/2014

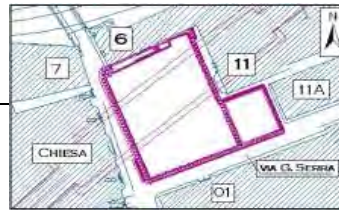
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43	13/09/2012 15.00	22,0	29,9	-2,0	-2,0	7,0	22,0	30,0	-2,0	-2,0	5,0	22,0	29,8	-1,0	1,0	1,0	22,0	29,8	-1,0	0,0	2,0
44	18/09/2012 08.00	19,0	29,9	-2,0	-1,0	7,0	19,0	30,0	-1,0	-1,0	5,0	19,0	29,8	-2,0	0,0	0,0	19,0	29,8	-2,0	1,0	1,0
45	26/09/2012 15.00	30,0	29,9	-1,0	0,0	6,0	30,0	30,0	-1,0	-2,0	4,0	30,0	29,8	-1,0	1,0	1,0	30,0	29,8	-1,0	0,0	1,0
46	04/10/2012 09.00	18,0	29,9	-2,0	-2,0	7,0	18,0	30,0	-2,0	-3,0	5,0	18,0	29,8	-1,0	0,0	2,0	18,0	29,8	-2,0	0,0	1,0
47	17/10/2012 08.30	14,0	29,9	-5,0	0,0	6,0	14,0	30,0	-4,0	-2,0	6,0	14,0	29,8	-3,0	1,0	2,0	14,0	29,8	-3,0	1,0	1,0
48	07/11/2012 08.30	14,0	29,9	-3,0	-1,0	7,0	14,0	30,0	-2,0	-1,0	7,0	14,0	29,8	-2,0	2,0	3,0	14,0	29,8	-2,0	1,0	2,0
49	27/11/2012 08.30	11,0	29,9	-2,0	-1,0	8,0	11,0	30,0	-2,0	-2,0	6,0	11,0	29,8	-3,0	1,0	1,0	11,0	29,8	-2,0	1,0	1,0
50	17/12/2012 08.30	13,0	29,9	-4,0	-2,0	7,0	13,0	30,0	-4,0	-2,0	6,0	13,0	29,8	-4,0	1,0	2,0	13,0	29,8	-4,0	0,0	1,0
51	09/01/2013 08.30	10,0	29,9	-3,0	-1,0	8,0	10,0	30,0	-3,0	-2,0	5,0	10,0	29,8	-3,0	1,0	1,0	10,0	29,8	-3,0	0,0	1,0
52	29/01/2013 08.30	8,0	29,9	-3,0	-1,0	8,0	8,0	30,0	-2,0	-3,0	5,0	8,0	29,8	-4,0	0,0	2,0	8,0	29,8	-4,0	1,0	2,0
53	07/02/2013 15.00	8,0	29,9	-2,0	0,0	6,0	8,0	30,0	-1,0	-1,0	5,0	8,0	29,8	-2,0	0,0	0,0	8,0	29,8	-2,0	1,0	0,0
54	14/02/2013 08.30	6,0	29,9	-1,0	-1,0	8,0	6,0	30,0	-1,0	0,0	8,0	6,0	29,8	-2,0	1,0	1,0	6,0	29,8	-2,0	2,0	3,0
55	19/02/2013 15.30	12,0	29,9	-2,0	0,0	8,0	12,0	30,0	-2,0	-1,0	6,0	12,0	29,8	-3,0	1,0	1,0	12,0	29,8	-3,0	1,0	1,0
56	27/02/2013 08.30	6,0	29,9	-1,0	-2,0	5,0	6,0	30,0	-1,0	-3,0	4,0	6,0	29,8	-2,0	-1,0	0,0	6,0	29,8	-2,0	0,0	0,0
57	05/03/2013 10.30	12,0	29,9	-2,0	0,0	7,0	12,0	30,0	-2,0	0,0	6,0										
58	12/03/2013 08.30	10,0	29,9	-2,0	-2,0	7,0	10,0	30,0	-1,0	-2,0	5,0										
59	19/03/2013 16.00	16,0	29,9	-1,0	-1,0	7,0	16,0	30,0	0,0	-2,0	5,0										
60	26/03/2013 08.30	13,0	29,9	-3,0	-1,0	4,0	13,0	30,0	-2,0	-1,0	3,0										
61	28/03/2013 11.00	15,0	29,9	-2,0	0,0	6,0	15,0	30,0	-2,0	-1,0	3,0										
62	03/04/2013 17.30	16,0	29,9	-2,0	0,0	5,0	16,0	30,0	-1,0	-1,0	5,0	16,0	29,8	-2,0	2,0	0,0	16,0	29,8	-3,0	3,0	1,0
63	10/04/2013 10.30	16,0	29,9	-2,0	-2,0	5,0	16,0	30,0	-1,0	-2,0	5,0	16,0	29,8	-3,0	1,0	0,0	16,0	29,8	-3,0	3,0	0,0
64	16/04/2013 15.00	23,0	29,9	-1,0	-1,0	4,0	23,0	30,0	-1,0	-2,0	3,0	23,0	29,8	-1,0	1,0	-1,0	23,0	29,8	-2,0	2,0	0,0
65	23/04/2013 08.30	13,0	29,9	-2,0	0,0	5,0	13,0	30,0	-1,0	-1,0	4,0	13,0	29,8	-3,0	2,0	-1,0	13,0	29,8	-3,0	3,0	0,0
66	03/05/2013 14.30	25,0	29,9	-2,0	-1,0	5,0	25,0	30,0	-1,0	0,0	5,0	25,0	29,8	-2,0	3,0	1,0	25,0	29,8	-2,0	4,0	0,0
67	09/05/2013 08.30	18,0	29,9	-2,0	0,0	5,0	18,0	30,0	-1,0	-1,0	4,0	18,0	29,8	-2,0	3,0	-1,0	18,0	29,8	-2,0	3,0	0,0
68	15/05/2013 14.30	21,0	29,9	0,0	-2,0	3,0	21,0	30,0	0,0	-3,0	2,0	21,0	29,8	-1,0	1,0	-1,0	21,0	29,8	-2,0	1,0	-2,0
69	22/05/2013 08.30	19,0	29,9	-1,0	-2,0	6,0	19,0	30,0	-1,0	-3,0	4,0	19,0	29,8	-2,0	1,0	0,0	19,0	29,8	-2,0	1,0	0,0
70	31/05/2013 15.30	18,0	29,9	-2,0	0,0	7,0	18,0	30,0	-2,0	-2,0	4,0	18,0	29,8	-3,0	2,0	0,0	18,0	29,8	-3,0	3,0	1,0
71	07/06/2013 08.30	21,0	29,9	-2,0	-2,0	6,0	21,0	30,0	-2,0	-2,0	4,0	21,0	29,8	-3,0	2,0	0,0	21,0	29,8	-3,0	2,0	1,0
72	13/06/2013 14.30	28,0	29,9	-1,0	0,0	5,0	28,0	30,0	0,0	-1,0	4,0	28,0	29,8	-2,0	4,0	0,0	28,0	29,8	-2,0	4,0	-1,0
73	18/06/2013 09.00	28,0	29,9	-2,0	-2,0	6,0	28,0	30,0	0,0	-2,0	5,0	28,0	29,8	-4,0	2,0	0,0	28,0	29,8	-3,0	3,0	1,0
74	25/06/2013 18.00	28,0	29,9	-2,0	-2,0	6,0	28,0	30,0	-1,0	-3,0	4,0	28,0	29,8	-4,0	2,0	0,0	28,0	29,8	-3,0	3,0	0,0
75	01/07/2013 07.30	22,0	29,9	-1,0	-3,0	5,0	22,0	30,0	-1,0	-4,0	4,0	22,0	29,8	-3,0	2,0	0,0	22,0	29,8	-3,0	3,0	0,0
76	08/07/2013 17.30	25,0	29,9	1,0	-5,0	5,0	25,0	30,0	1,0	-6,0	4,0	25,0	29,8	-1,0	0,0	0,0	25,0	29,8	-1,0	1,0	1,0
77	13/07/2013 07.30	25,0	29,9	-1,0	-3,0	6,0	25,0	30,0	-1,0	-5,0	5,0	25,0	29,8	-4,0	1,0	1,0	25,0	29,8	-3,0	2,0	2,0
78	18/07/2013 07.30	25,0	29,9	1,0	-3,0	6,0	25,0	30,0	0,0	-5,0	3,0	25,0	29,8	-2,0	3,0	0,0	25,0	29,8	-2,0	3,0	1,0
79	25/07/2013 18.00	27,0	29,9	0,0	-3,0	7,0	27,0	30,0	-1,0	-4,0	4,0	27,0	29,8	-3,0	2,0	0,0	27,0	29,8	-2,0	2,0	1,0
80	31/07/2013 09.00	27,0	29,9	0,0	-2,0	6,0	27,0	30,0	1,0	-3,0	5,0	27,0	29,8	-3,0	3,0	1,0	27,0	29,8	-3,0	4,0	0,0
81	07/08/2013 09.00	29,0	29,9	-1,0	-2,0	5,0	29,0	30,0	0,0	-3,0	4,0	29,0	29,8	-4,0	3,0	1,0	29,0	29,8	-4,0	4,0	0,0
82	13/08/2013 09.00	27,0	29,9	-2,0	-3,0	4,0	27,0	30,0	-1,0	-4,0	3,0	27,0	29,8	-5,0	2,0	1,0	27,0	29,8	-5,0	3,0	1,0
83	21/08/2013 07.30	23,0	29,9	-1,0	-4,0	6,0	23,0	30,0	0,0	-3,0	5,0	23,0	29,8	-2,0	3,0	1,0	23,0	29,8	-3,0	2,0	1,0
84	28/08/2013 10.30	25,0	29,9	1,0	-5,0	9,0	25,0	30,0	1,0	-5,0	7,0	25,0	29,8	-2,0	0,0	3,0	25,0	29,8	-2,0	2,0	3,0
85	06/09/2013 17.30	29,0	29,9	0,0	-5,0	6,0	29,0	30,0	1,0	-4,0	5,0	29,0	29,8	-3,0	2,0	0,0	29,0	29,8	-3,0	2,0	1,0
86	13/09/2013 07.30	18,0	29,9	0,0	-3,0	6,0	18,0	30,0	1,0	-4,0	5,0	18,0	29,8	-2,0	3,0	1,0	18,0	29,8	-3,0	3,0	1,0
87	21/09/2013 09.30	21,0	29,9	-1,0	-4,0	7,0	21,0	30,0	-1,0	-4,0	6,0	21,0	29,8	-3,0	2,0	2,0	21,0	29,8	-3,0	3,0	2,0
88	26/09/2013 09.30	18,0	29,9	0,0	-4,0	7,0	18,0	30,0	0,0	-5,0	5,0	18,0	29,8	-3,0	1,0	2,0	18,0	29,8	-3,0	1,0	1,0
89	03/10/2013 16.30	20,0	29,9	-1,0	-4,0	6,0	20,0	30,0	-1,0	-4,0	5,0	20,0	29,8	-3,0	1,0	2,0	20,0	29,8	-3,0	1,0	1,0
90	10/10/2013 08.30	16,0	29,9	-1,0	-4,0	6,0	16,0	30,0	0,0	-4,0	6,0	16,0	29,8	-3,0	2,0	2,0	16,0	29,8	-3,0	1,0	0,0
91	16/10/2013 14.30	23,0	29,9	-1,0	-4,0	8,0	23,0	30,0	0,0	-5,0	6,0	23,0	29,8	-3,0	2,0	2,0	23,0	29,8	-4,0	1,0	2,0
92	24/10/2013 08.30	18,0	29,9	-1,0	-2,0	6,0	18,0	30,0	-1,0	-3,0	6,0	18,0	29,8	-3,0	4,0	2,0	18,0	29,8	-4,0	3,0	1,0
93	31/10/2013 14.30	23,0	29,9	-1,0	-4,0	7,0	23,0	30,0	-1,0	-4,0	5,0	23,0	29,8	-3,0	1,0	2,0	23,0	29,8	-4,0	1,0	2,0
94	07/11/2013 08.30	11,0	29,9	-1,0	-3,0	6,0	11,0	30,0	-1,0	-5,0	5,0	11,0	29,8	-4,0	1,0	0,0	11,0	29,8	-4,0	2,0	0,0
95	14/11/2013 14.30	20,0	29,9	-1,0	-4,0	7,0	20,0	30,0	0,0	-5,0	6,0	20,0	29,8	-3,0	1,0	2,0	20,0	29,8	-4,0	1,0	1,0
96	25/11/2013 15.30	12,0	29,9	-1,0	-2,0	6,0	12,0	30,0	0,0	-2,0	6,0	12,0	29,8	-3,0	2,0	0,0	12,0	29,8	-4,0	3,0	1,0
97	30/11/2013 08.30	7,0	29,9	-1,0	-3,0	7,0	7,0	30,0	0,0	-3,0	6,0	7,0	29,8	-3,0	2,0	2,0	7,0	29,8	-3,0	3,0	2,0
98	05/12/2013 08.30	7,0	29,9	-1,0	-3,0	7,0	7,0	30,0	1,0	-4,0	5,0	7,0	29,8	-3,0	1,0	2,0	7,0	29,8	-3,0	1,0	1,0
99	19/12/2013 13.00	8,0	29,9	-2,0	-4,0	5,0	8,0	30,0	-1,0	-5,0	4,0	8,0	29,8	-5,0	0,0	1,0	8,0	29,8	-4,0	1,0	2,0
100	27/12/2013 09.00	8,0	29,9	-3,0	-4,0	5,0	8,0	30,0	-1,0	-5,0	5,0	8,0	29,8	-8,0	-1,0	3,0					



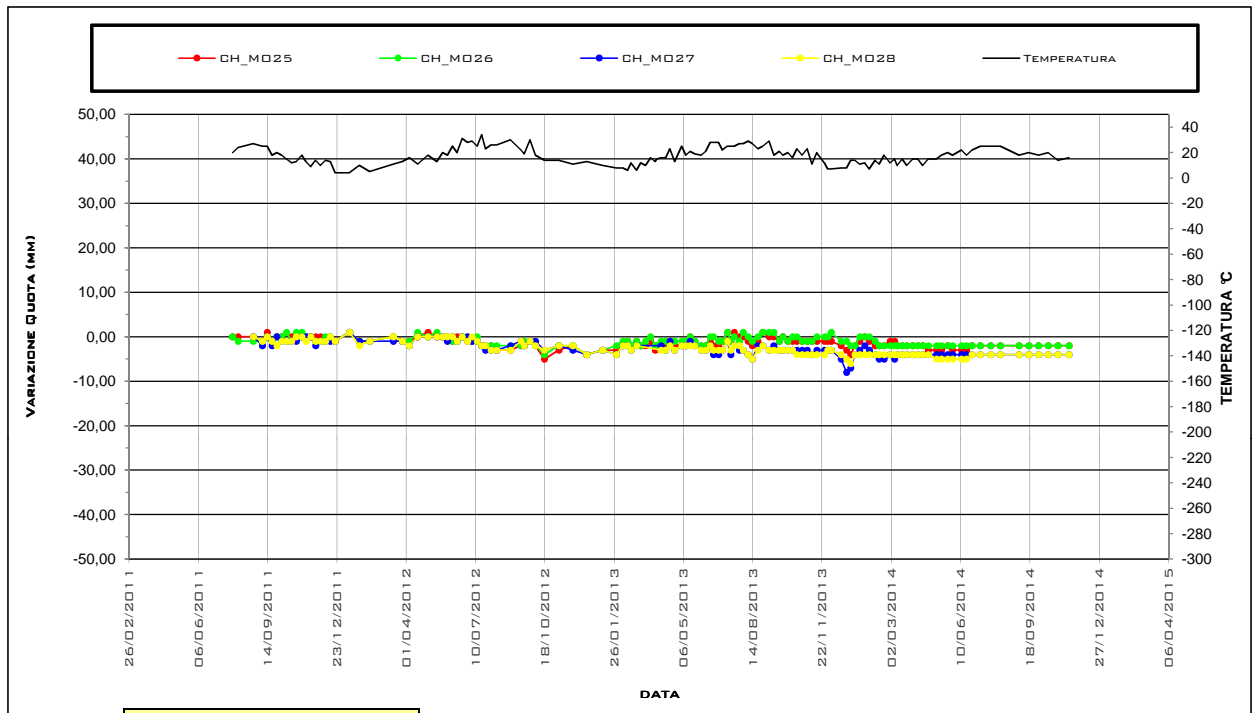


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Il Ordine di Tiranti \ 25-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 25/07/2011  
**Data lettura di zero** 25/07/2011

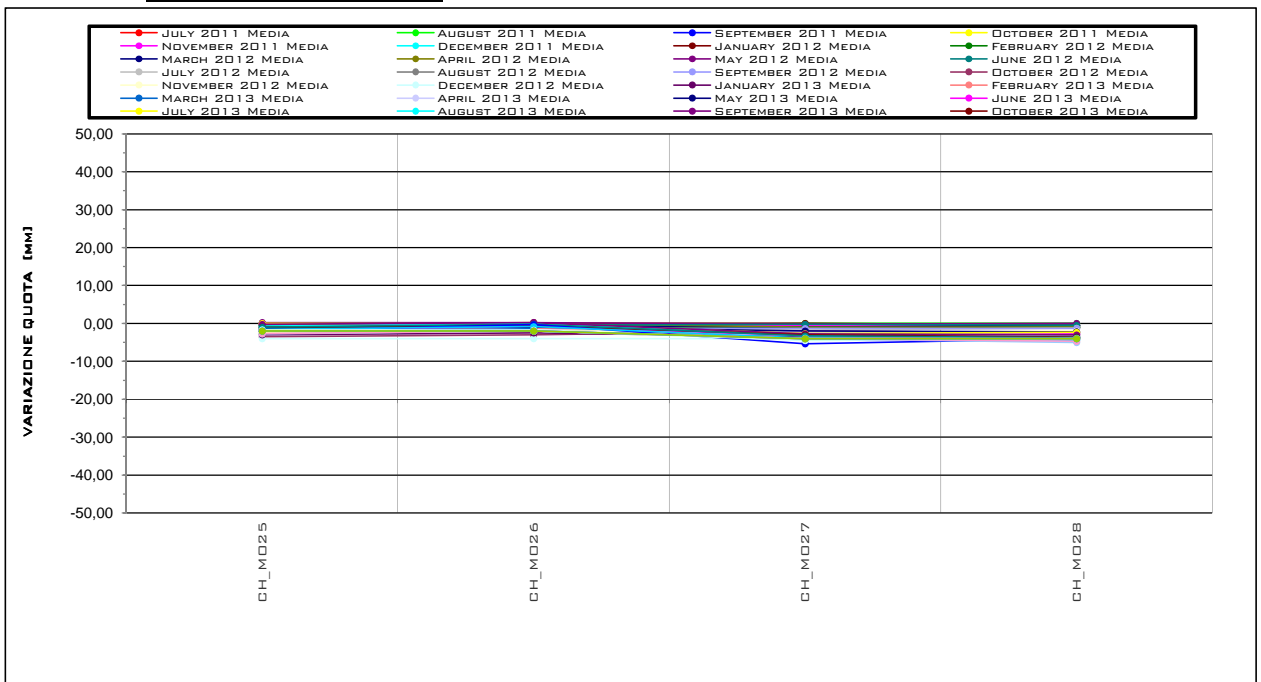
**UBICAZIONE**  
STAZIONE CHIAIA \ \ Il Ordine di Tiranti \ 25-28



**GRAFICO QUOTA**

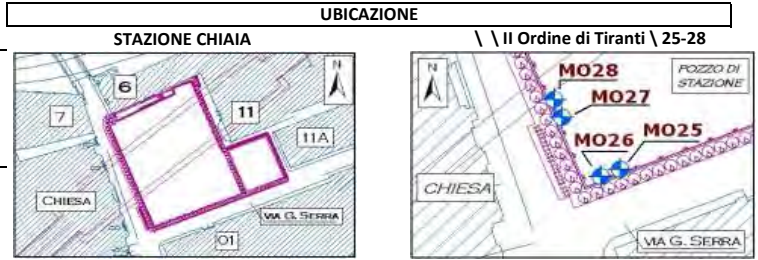


**GRAFICO ISOCRONE**

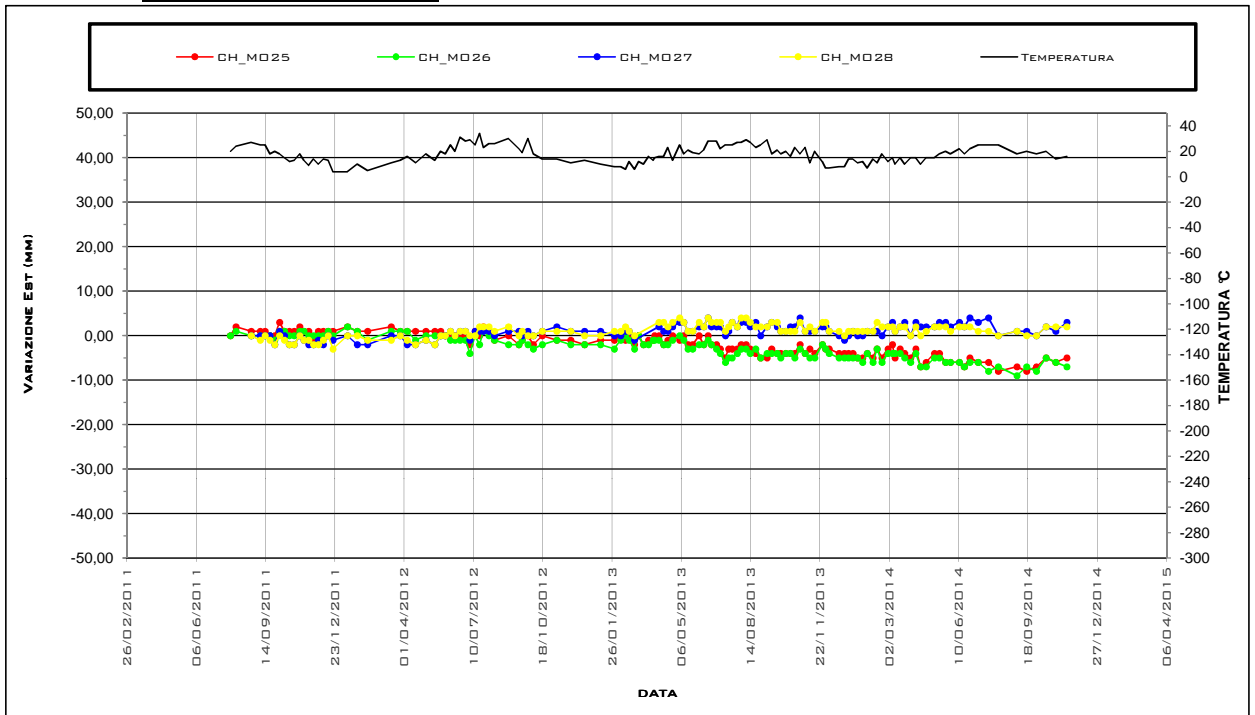




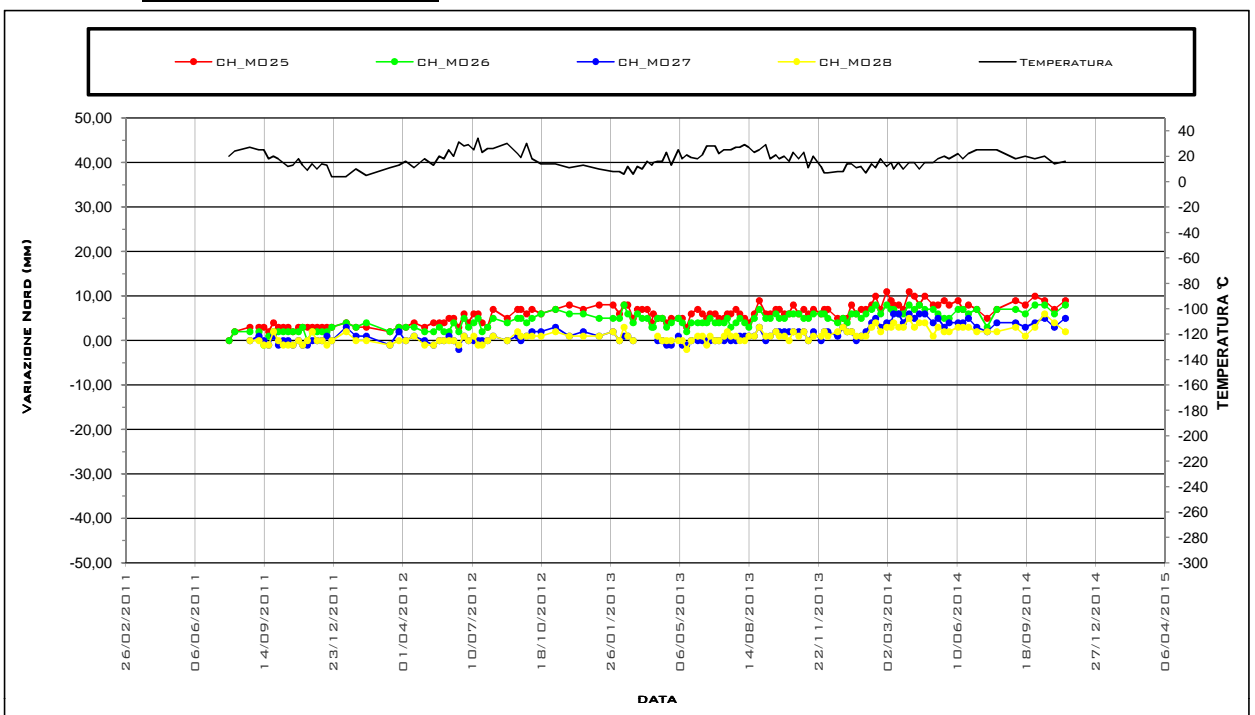
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Il Ordine di Tiranti \ 25-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 25/07/2011  
**Data lettura di zero** 25/07/2011



**GRAFICO EST**



**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**

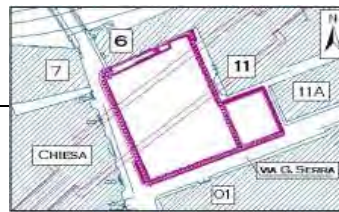
**Ultima Misura** 131 **in data** 13/11/2014

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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
42	18/09/2012 08.00	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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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	27,9	2,0	3,0	1,0	16,0	28,0	0,0	1,0	0,0
58	26/03/2013 08.30	13,0	30,0	-3,0	4,0	0,0	13,0	30,0	-2,0	3,0	0,0	13,0	27,9	0,0	4,0	-2,0	13,0	28,0	-1,0	3,0	-2,0
59	28/03/2013 11.00	15,0	30,0	-3,0	4,0	0,0	15,0	30,0	-3,0	4,0	0,0	15,0	27,9	0,0	4,0	-1,0	15,0	28,0	-1,0	2,0	-2,0
60	03/04/2013 17.30	16,0	30,0	-2,0	5,0	1,0	16,0	30,0	-2,0	4,0	1,0	16,0	27,9	1,0	3,0	0,0	16,0	28,0	1,0	2,0	-1,0
61	10/04/2013 10.30	16,0	30,0	-2,0	4,0	2,0	16,0	30,0	-2,0	5,0	3,0	16,0	27,9	1,0	3,0	1,0	16,0	28,0	0,0	3,0	0,0
62	16/04/2013 15.00	23,0	30,0	-2,0	3,0	0,0	23,0	30,0	-1,0	3,0	1,0	23,0	27,9	2,0	3,0	0,0	23,0	28,0	0,0	3,0	-1,0
63	23/04/2013 08.30	13,0	30,0	-3,0	4,0	1,0	13,0	30,0	-2,0	3,0	1,0	13,0	27,9	0,0	3,0	-1,0	13,0	28,0	-1,0	3,0	-1,0
64	03/05/2013 14.30	25,0	30,0	-1,0	4,0	1,0	25,0	30,0	-1,0	4,0	1,0	25,0	27,9	2,0	5,0	0,0	25,0	28,0	0,0	4,0	0,0
65	09/05/2013 08.30	18,0	30,0	-1,0	5,0	1,0	18,0	30,0	-2,0	4,0	2,0	18,0	27,9	2,0	4,0	1,0	18,0	28,0	0,0	3,0	0,0
66	15/05/2013 14.30	21,0	30,0	-1,0	4,0	-1,0	21,0	30,0	-1,0	2,0	-1,0	21,0	27,9	2,0	5,0	0,0	21,0	28,0	1,0	2,0	-1,0
67	22/05/2013 08.30	19,0	30,0	-1,0	4,0	1,0	19,0	30,0	-1,0	3,0	1,0	19,0	27,9	1,0	3,0	1,0	19,0	28,0	1,0	2,0	0,0
68	31/05/2013 15.30	18,0	30,0	-3,0	4,0	2,0	18,0	30,0	-2,0	4,0	3,0	18,0	27,9	0,0	2,0	1,0	18,0	28,0	0,0	2,0	0,0
69	07/06/2013 08.30	21,0	30,0	-4,0	5,0	1,0	21,0	30,0	-2,0	4,0	3,0	21,0	27,9	1,0	4,0	1,0	21,0	28,0	-1,0	3,0	1,0
70	13/06/2013 14.30	28,0	30,0	-1,0	5,0	0,0	28,0	30,0	-1,0	5,0	1,0	28,0	27,9	2,0	4,0	-1,0	28,0	28,0	1,0	4,0	-1,0
71	18/06/2013 09.00	28,0	30,0	-2,0	4,0	1,0	28,0	30,0	-2,0	3,0	3,0	28,0	27,9	1,0	3,0	1,0	28,0	28,0	0,0	2,0	1,0
72	25/06/2013 18.00	28,0	30,0	-3,0	3,0	1,0	28,0	30,0	-2,0	5,0	2,0	28,0	27,9	1,0	4,0	1,0	28,0	28,0	-1,0	3,0	0,0
73	01/07/2013 07.30	22,0	30,0	-2,0	5,0	2,0	22,0	30,0	-2,0	4,0	2,0	22,0	27,9	1,0	5,0	0,0	22,0	28,0	0,0	4,0	0,0
74	08/07/2013 17.30	25,0	30,0	-2,0	3,0	1,0	25,0	30,0	-1,0	2,0	2,0	25,0	27,9	2,0	4,0	1,0	25,0	28,0	0,0	1,0	0,0
75	13/07/2013 07.30	25,0	30,0	-3,0	4,0	2,0	25,0	30,0	-2,0	4,0	3,0	25,0	27,9	1,0	4,0	1,0	25,0	28,0	0,0	4,0	1,0
76	18/07/2013 07.30	25,0	30,0	-1,0	4,0	1,0	25,0	30,0	-1,0	3,0	2,0	25,0	27,9	2,0	4,0	1,0	25,0	28,0	1,0	3,0	0,0
77	25/07/2013 18.00	27,0	30,0	-3,0	5,0	2,0	27,0	30,0	-2,0	4,0	2,0	27,0	27,9	1,0	4,0	1,0	27,0	28,0	0,0	3,0	0,0
78	31/07/2013 09.00	27,0	30,0	-3,0	6,0	1,0	27,0	30,0	-1,0	5,0	2,0	27,0	27,9	1,0	4,0	1,0	27,0	28,0	0,0	3,0	-1,0
79	07/08/2013 09.00	29,0	30,0	-4,0	5,0	1,0	29,0	30,0	-2,0	5,0	2,0	29,0	27,9	0,0	3,0	1,0	29,0	28,0	-1,0	2,0	-2,0
80	13/08/2013 09.00	27,0	30,0	-5,0	4,0	2,0	27,0	30,0	-3,0	4,0	3,0	27,0	27,9	-1,0	2,0	2,0	27,0	28,0	-2,0	0,0	-1,0
81	21/08/2013 07.30	23,0	30,0	-2,0	5,0	2,0	23,0	30,0	-2,0	5,0	3,0	23,0	27,9	2,0	6,0	1,0	23,0	28,0	0,0	4,0	1,0
82	28/08/2013 10.30	25,0	30,0	-1,0	3,0	4,0	25,0	30,0	0,0	3,0	5,0	25,0	27,9	2,0	3,0	3,0	25,0	28,0	1,0	2,0	2,0
83	06/09/2013 17.30	29,0	30,0	-2,0	3,0	1,0	29,0	30,0	-1,0	3,0	3,0	29,0	27,9	2,0	4,0	1,0	29,0	28,0	1,0	1,0	0,0
84	13/09/2013 07.30	18,0	30,0	-2,0	5,0	1,0	18,0	30,0	-2,0	5,0	3,0	18,0	27,9	1,0	4,0	1,0	18,0	28,0	0,0	4,0	0,0
85	21/09/2013 09.30	21,0	30,0	-3,0	5,0	3,0	21,0	30,0	-3,0	4,0	3,0	21,0	27,9	0,0	3,0	2,0	21,0	28,0	0,0	4,0	1,0
86	26/09/2013 09.30	18,0	30,0	-3,0	3,0	2,0	18,0	30,0	-3,0	3,0	2,0	18,0	27,9	1,0	4,0	1,0	18,0	28,0	0,0	2,0	1,0
87	03/10/2013 16.30	20,0	30,0	-3,0	3,0	2,0	20,0	30,0	-2,0	3,0	3,0	20,0	27,9	1,0	3,0	2,0	20,0	28,0	0,0	2,0	1,0
88	10/10/2013 08.30	16,0	30,0	-3,0	4,0	2,0	16,0	30,0	-2,0	4,0	3,0	16,0	27,9	1,0	3,0	1,0	16,0	28,0	0,0	3,0	0,0
89	16/10/2013 14.30	23,0	30,0	-4,0	3,0	2,0	23,0	30,0	-3,0	4,0	3,0	23,0	27,9	0,0	3,0	1,0	23,0	28,0	-1,0	2,0	1,0
90	24/10/2013 08.30	18,0	30,0	-4,0	5,0	1,0	18,0	30,0	-3,0	5,0	2,0	18,0	27,9	0,0	5,0	1,0	18,0	28,0	-1,0	4,0	1,0
91	31/10/2013 14.30	23,0	30,0	-4,0	4,0	3,0	23,0	30,0	-3,0	3,0	4,0	23,0	27,9	0,0	3,0	2,0	23,0	28,0	-1,0	2,0	1,0
92	07/11/2013 08.30	11,0	30,0	-4,0	5,0	2,0	11,0	30,0	-3,0	4,0	3,0	11,0	27,9	0,0	3,0	1,0	11,0	28,0	-1,0	4,0	0,0
93	14/11/2013 14.30	20,0	30,0	-3,0	3,0	2,0	20,0	30,0	-3,0	3,0	3,0	20,0	27,9	1,0	4,0	1,0	20,0	28,0	-1,0	2,0	0,0
94	25/11/2013 15.30	12,0	30,0	-3,0	5,0	2,0	12,0	30,0	-3,0	4,0	1,0	12,0	27,9	1,0	4,0	1,0	12,0	28,0	-1,0	3,0	-1,0
95	30/11/2013 08.30	7,0	30,0	-3,0	5,0	3,0	7,0	30,0	-3,0	5,0	3,0	7,0	27,9	1,0	4,0	2,0	7,0	28,0	-1,0	4,0	0,0
96	05/12/2013 08.30	7,0	30,0	-3,0	4,0	2,0	7,0	30,0	-3,0	4,0	3,0	7,0	27,9	1,0	5,0	1,0	7,0	28,0	-1,0	3,0	0,0
97	19/12/2013 13.00	8,0	30,0	-5,0	3,0	3,0	8,0														

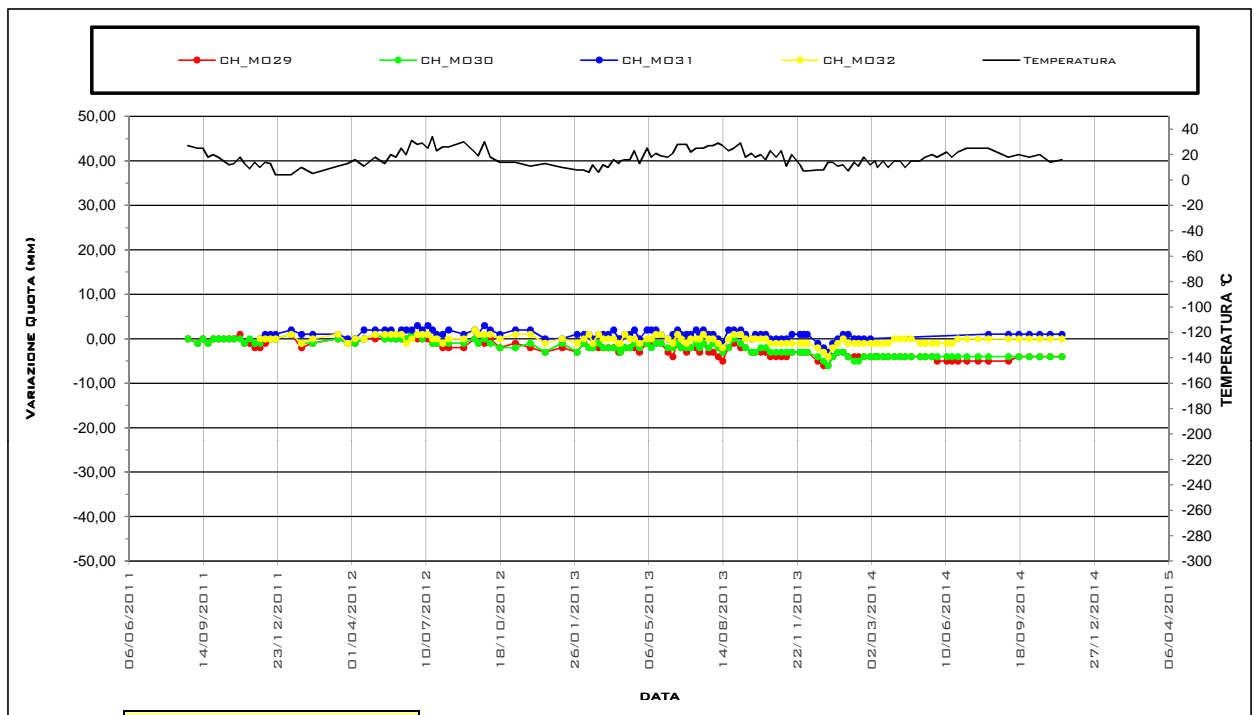


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Il Ordine di Tiranti \ 29-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 24/08/2011  
**Data lettura di zero** 24/08/2011

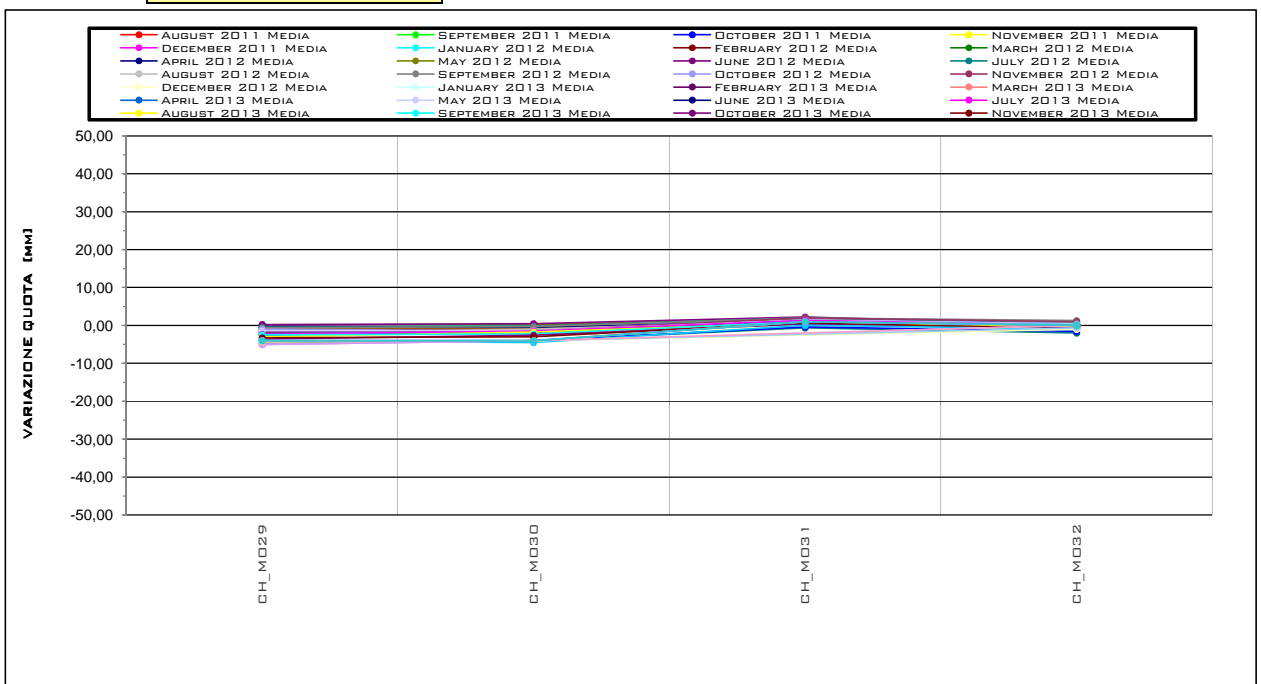
**UBICAZIONE**  
STAZIONE CHIAIA \ \ Il Ordine di Tiranti \ 29-32



**GRAFICO QUOTA**

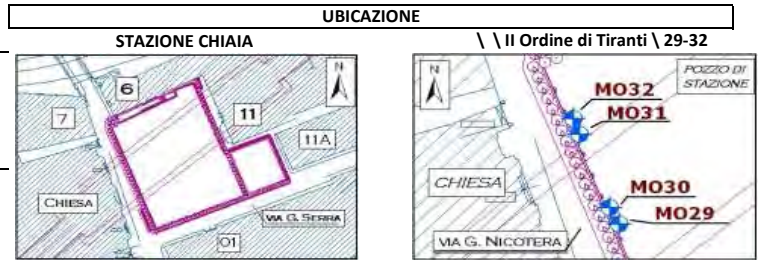


**GRAFICO ISOCRONE**

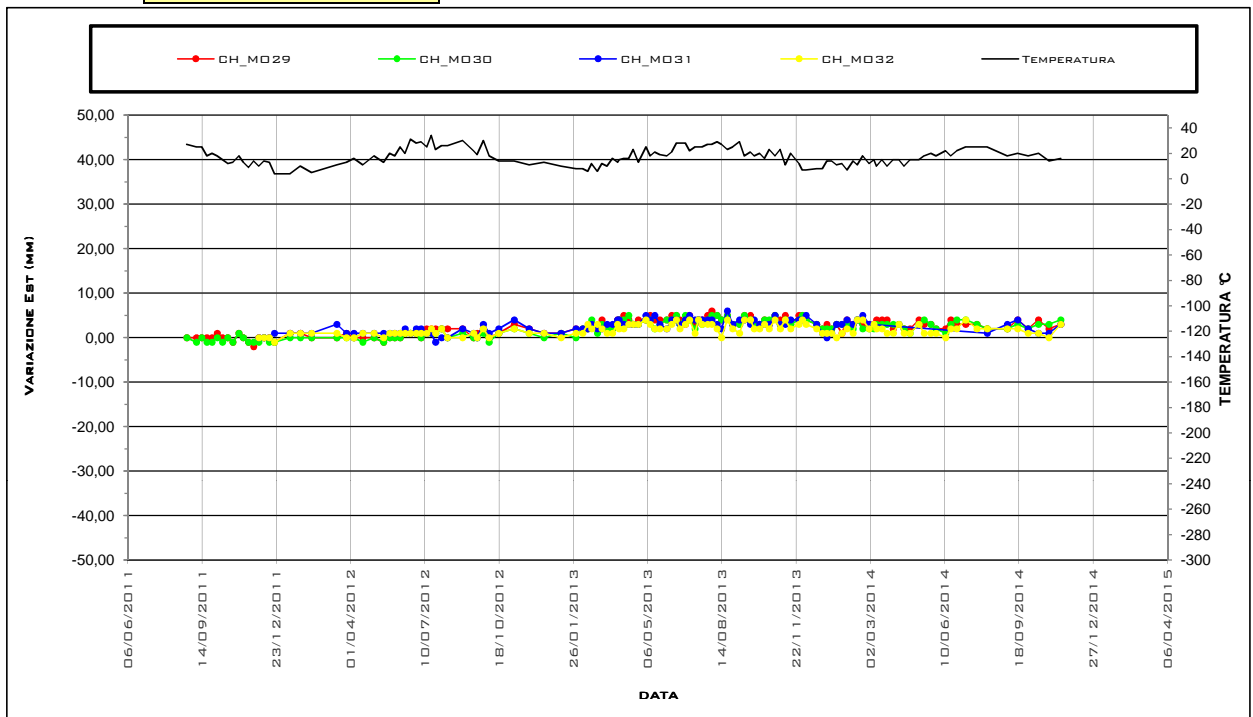




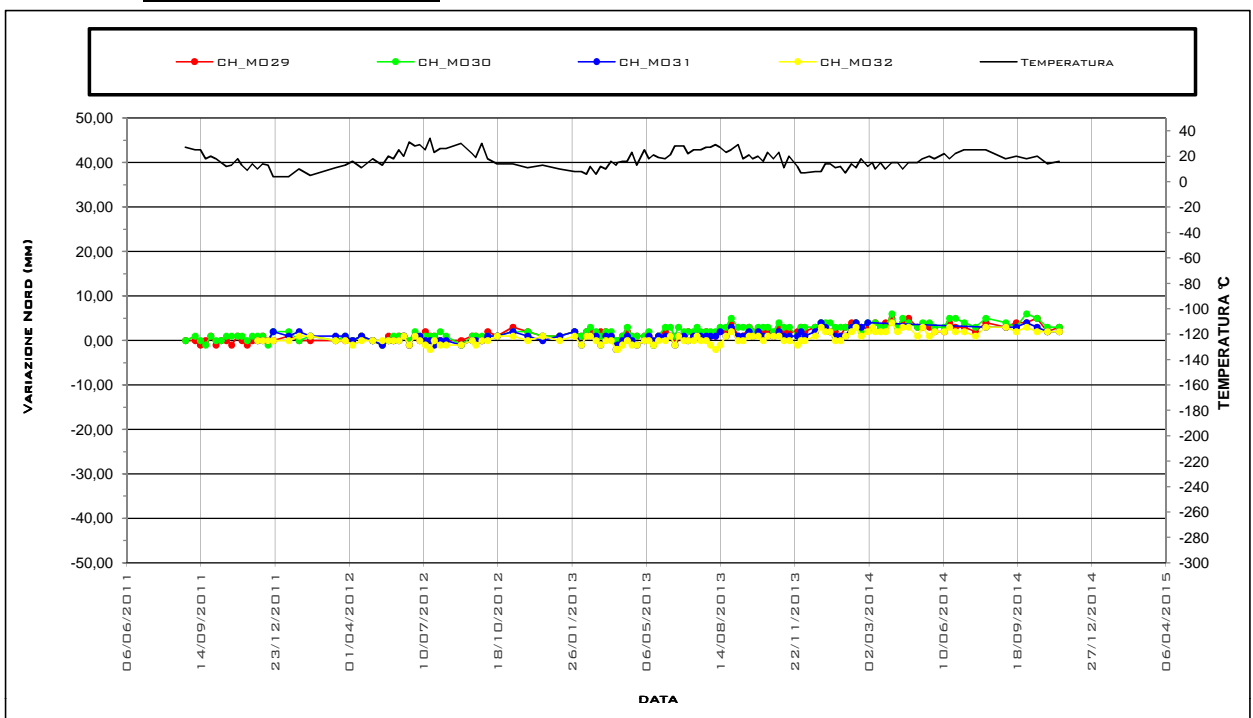
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Il Ordine di Tiranti \ 29-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 24/08/2011  
**Data lettura di zero** 24/08/2011



**GRAFICO EST**



**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 97 in data 13/11/2014

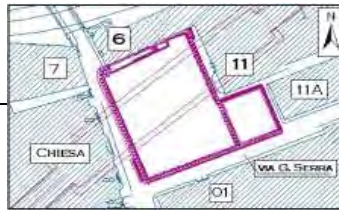
Lett. n°	DATA	CH_M033					CH_M034					CH_M035					CH_M037					CH_M037A						
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7	13/09/2012 15.00	22.0	14.4	-2.0	-1.0	-2.0	11.6	0.0	0.0	3.0	22.0	11.8	0.0	0.0	0.0	19.0	10.2	0.0	0.0	0.0								
8	18/09/2012 08.00	19.0	14.4	0.0	0.0	0.0	19.0	11.6	0.0	-1.0	2.0	19.0	11.8	0.0	0.0	0.0	19.0	10.2	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	30.0	10.2	-1.0	-1.0	1.0							
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	18.0	10.2	0.0	-4.0	-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	14.0	10.2	1.0	-1.0	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	14.0	10.2	-1.0	1.0	-1.0							
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	11.0	10.2	2.0	-5.0	-3.0							
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	13.0	10.2	0.0	-1.0	-1.0							
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	10.0	10.2	0.0	-5.0	-2.0							
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	8.0	10.2	0.0	-1.0	-1.0							
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	8.0	10.2	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	6.0	10.2	0.0	-1.0	-3.0							
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	12.0	10.2	1.0	0.0	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	6.0	10.2	0.0	-2.0	-2.0							
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	12.0	10.2	0.0	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	10.0	10.2	2.0	-1.0	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	16.0	10.2	1.0	0.0	0.0							
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	13.0	10.2	2.0	-2.0	-1.0							
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	15.0	10.2	2.0	-1.0	0.0							
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	16.0	10.2	0.0	-1.0	0.0							
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	16.0	10.2	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	23.0	10.2	0.0	3.0	-1.0							
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	13.0	10.2	-1.0	1.0	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	25.0	10.2	1.0	2.0	1.0							
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	18.0	10.2	1.0	-1.0	1.0							
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	21.0	10.2	1.0	3.0	0.0							
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	19.0	10.2	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	18.0	10.2	1.0	1.0	-2.0							
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	21.0	10.2	2.0	1.0	0.0							
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	28.0	10.2	2.0	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	4.0	0.0	1.0	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	4.0	-2.0	-1.0	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	4.0	0.0	2.0	2.0					
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	4.0	-1.0	0.0	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	5.0	1.0	-1.0	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	4.0	-1.0	0.0	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	4.0	1.0	-1.0	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	5.0	2.0	-2.0	-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	7.0	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	6.0	3.0	4.0	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	6.0	-1.0	0.0	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	7.0	2.0	2.0	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	7.0	-1.0	1.0	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	6.0	-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	7.0	0.0	2.0	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	5.0	-1.0	3.0	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	5.0	0.0	1.0	3.0					
57	31/10/2013 14.30	23.0	14.4	-1.0	-4.0	0.0	23.0	11.6	0.0	-3.0	2.0	23.0	1															



**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**

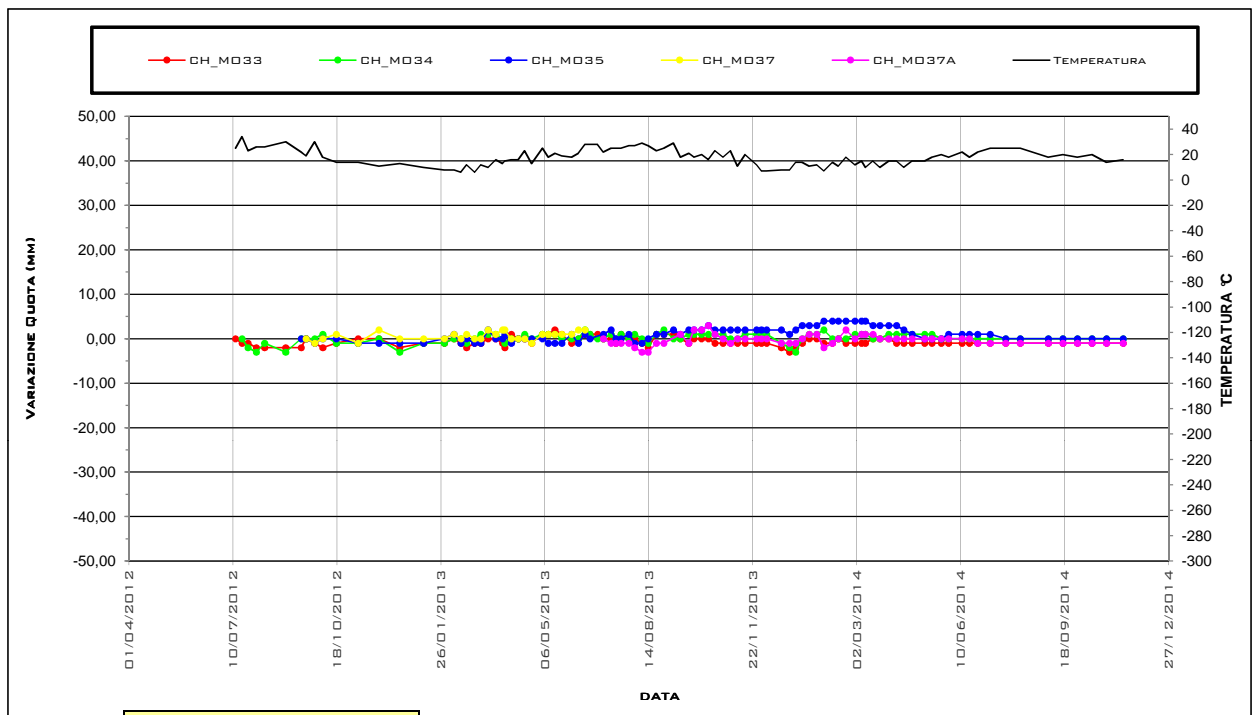
**STAZIONE CHIAIA**



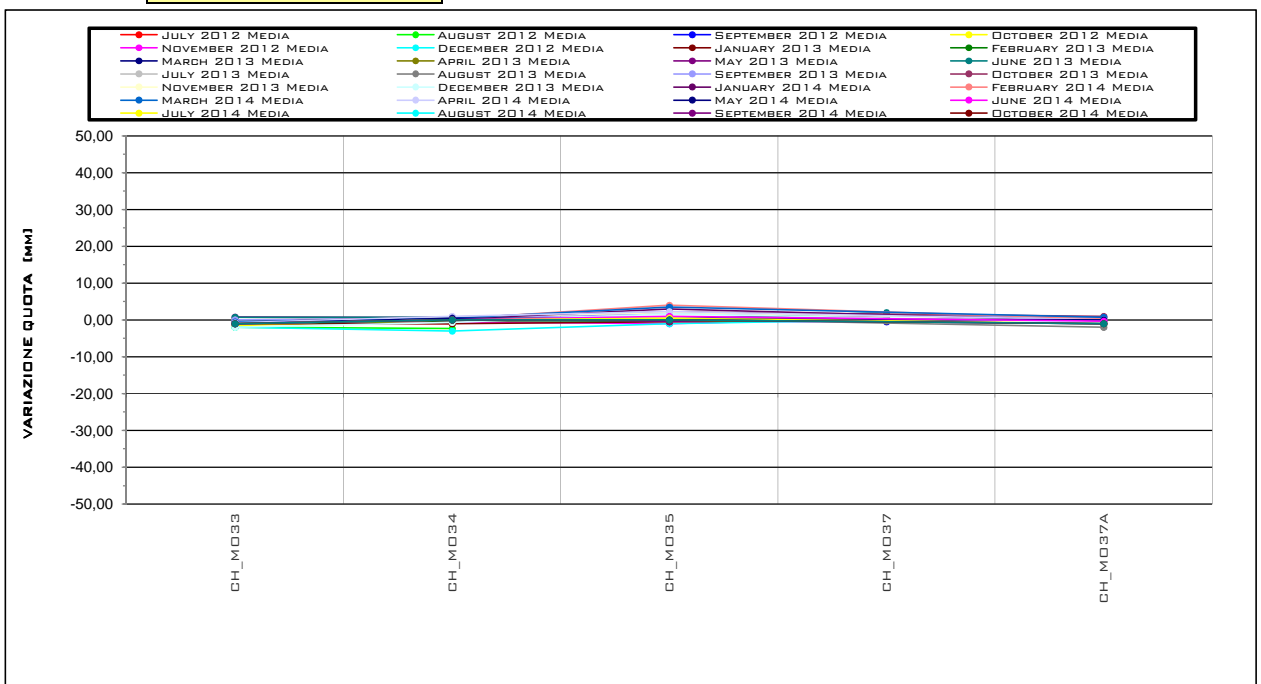
\ \ III Ordine - Tufo \ 33-37



**GRAFICO QUOTA**

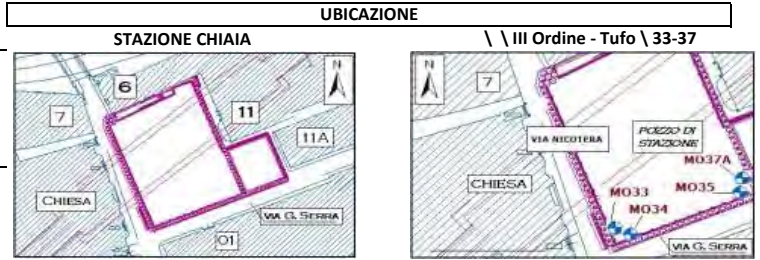


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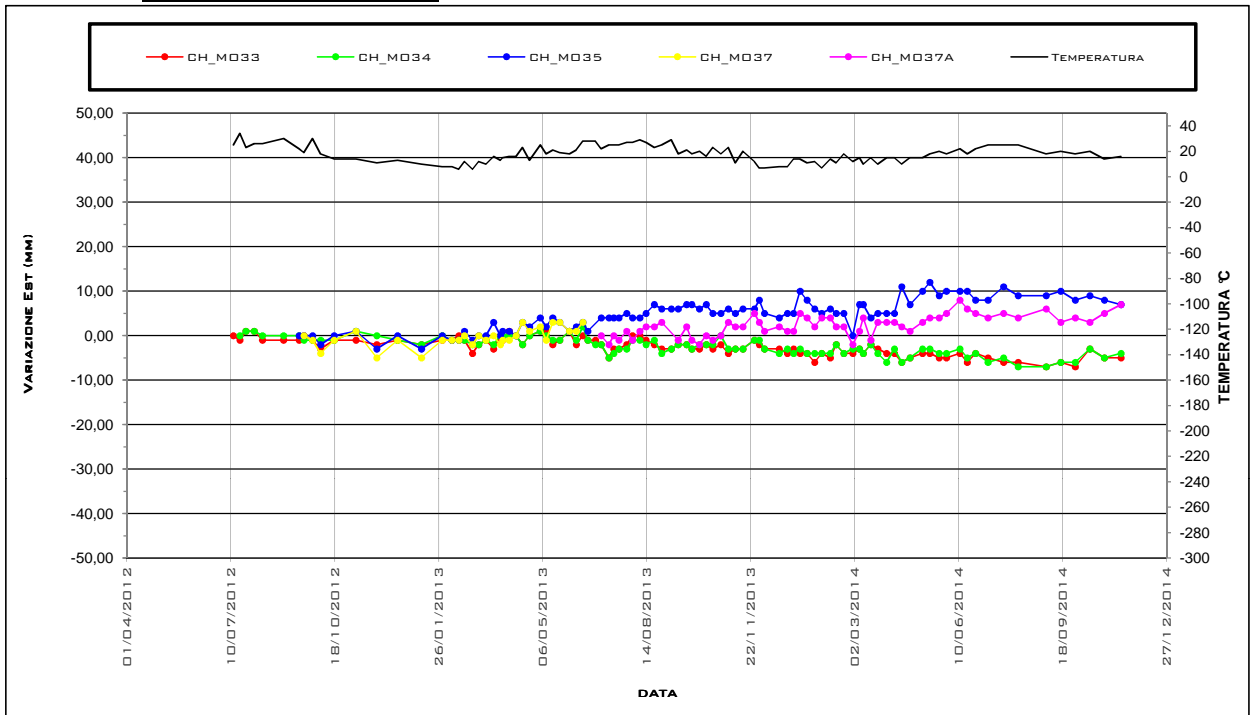




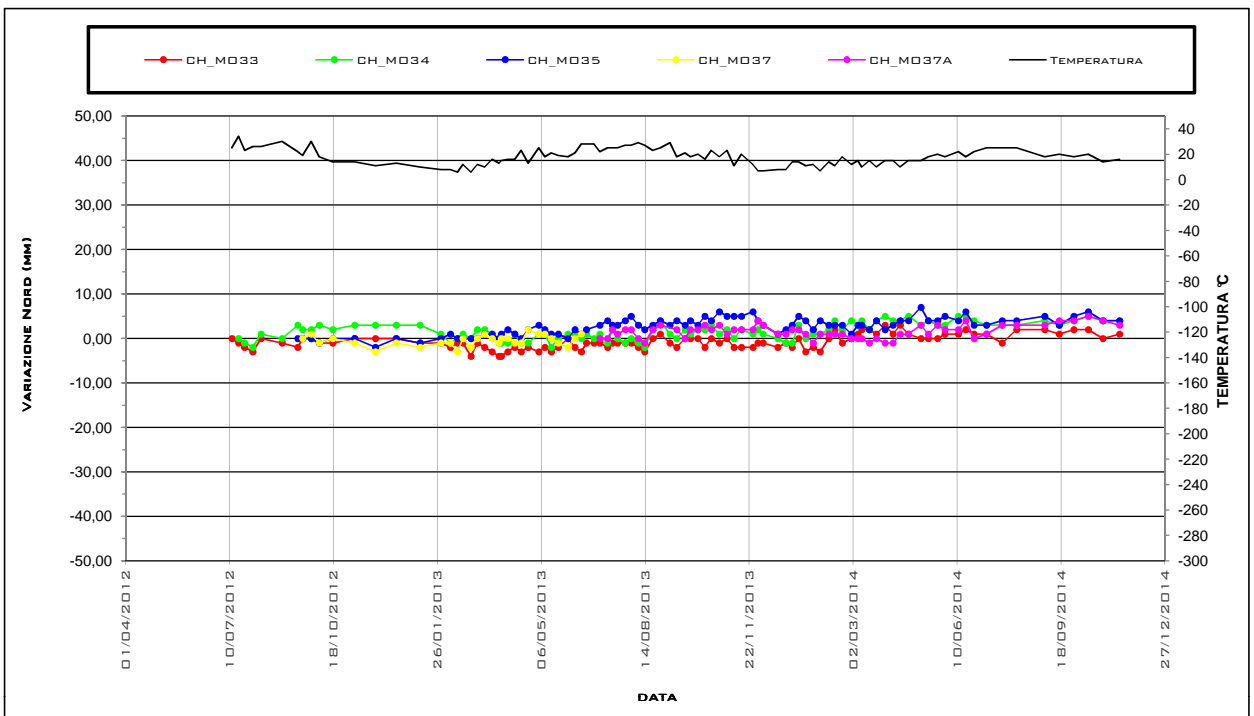
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ III Ordine - Tufo \ 33-37  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 12/07/2012  
**Data lettura di zero** 12/07/2012



**GRAFICO EST**



**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**

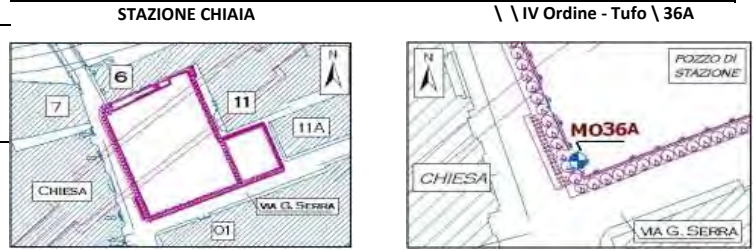
**Ultima** 86 **in** **13/11/2014**  
**Misura** **data**

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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
46	31/10/2013 14.30						23,0	9,2	-3,0	0,0	3,0
47	07/11/2013 08.30						11,0	9,3	-2,0	0,0	2,0
48	14/11/2013 14.30						20,0	9,3	-2,0	0,0	1,0
49	25/11/2013 15.30						12,0	9,3	-2,0	1,0	2,0
50	30/11/2013 08.30						7,0	9,3	-2,0	1,0	3,0
51	05/12/2013 08.30						7,0	9,3	-2,0	0,0	1,0
52	19/12/2013 13.00						8,0	9,2	-4,0	-1,0	0,0
53	27/12/2013 09.00						8,0	9,2	-5,0	-2,0	1,0
54	02/01/2014 07.30						14,0	9,2	-5,0	-1,0	0,0
55	08/01/2014 14.30						14,0	9,3	-2,0	-1,0	3,0
56	15/01/2014 08.30						11,0	9,3	-1,0	-2,0	1,0
57	22/01/2014 14.30						12,0	9,3	-1,0	-3,0	2,0
58	29/01/2014 08.30						7,0	9,3	-1,0	-1,0	1,0
59	06/02/2014 14.30						14,0	9,3	-1,0	-2,0	4,0
60	12/02/2014 08.30						11,0	9,3	-1,0	1,0	4,0
61	19/02/2014 14.30						18,0	9,3	-1,0	-1,0	2,0
62	28/02/2014 08.30						12,0	9,3	-1,0	0,0	4,0
63	06/03/2014 16.30						15,0	9,2	-3,0	-1,0	5,0
64	10/03/2014 08.30						10,0	9,2	-3,0	0,0	2,0
65	17/03/2014 15.30						15,0	9,2	-3,0	1,0	3,0
66	24/03/2014 08.30						10,0	9,3	-2,0	-1,0	5,0
67	01/04/2014 18.30						15,0	9,3	-2,0	-2,0	4,0
68	09/04/2014 08.30						15,0	9,3	-2,0	0,0	3,0
69	16/04/2014 08.30						10,0	9,3	-2,0	-3,0	4,0
70	24/04/2014 08.30						15,0	9,3	-2,0	-2,0	5,0
71	06/05/2014 08.30						15,0	9,2	-3,0	-2,0	3,0
72	13/05/2014 08.30						18,0	9,2	-3,0	-1,0	3,0
73	22/05/2014 08.30						20,0	9,2	-3,0	-2,0	4,0
74	29/05/2014 08.30						18,0	9,3	-2,0	-1,0	4,0
75	11/06/2014 08.30						22,0	9,3	-2,0	-2,0	4,0
76	18/06/2014 08.30						18,0	9,3	-2,0	-3,0	5,0
77	26/06/2014 08.30						22,0	9,3	-2,0	-1,0	5,0
78	08/07/2014 08.30						25,0	9,3	-2,0	-1,0	4,0
79	23/07/2014 08.30						25,0	9,3	-2,0	-2,0	2,0
80	06/08/2014 08.30						25,0	9,3	-2,0	-3,0	4,0
81	02/09/2014 08.30						18,0	9,3	-2,0	-3,0	4,0
82	16/09/2014 08.30						20,0	9,3	-2,0	-3,0	4,0
83	30/09/2014 08.30						18,0	9,3	-2,0	-4,0	4,0
84	14/10/2014 08.30						20,0	9,3	-2,0	-1,0	4,0
85	28/10/2014 08.30						14,0	9,3	-2,0	-2,0	1,0
86	13/11/2014 08.30						16,0	9,3	-2,0	-1,0	2,0

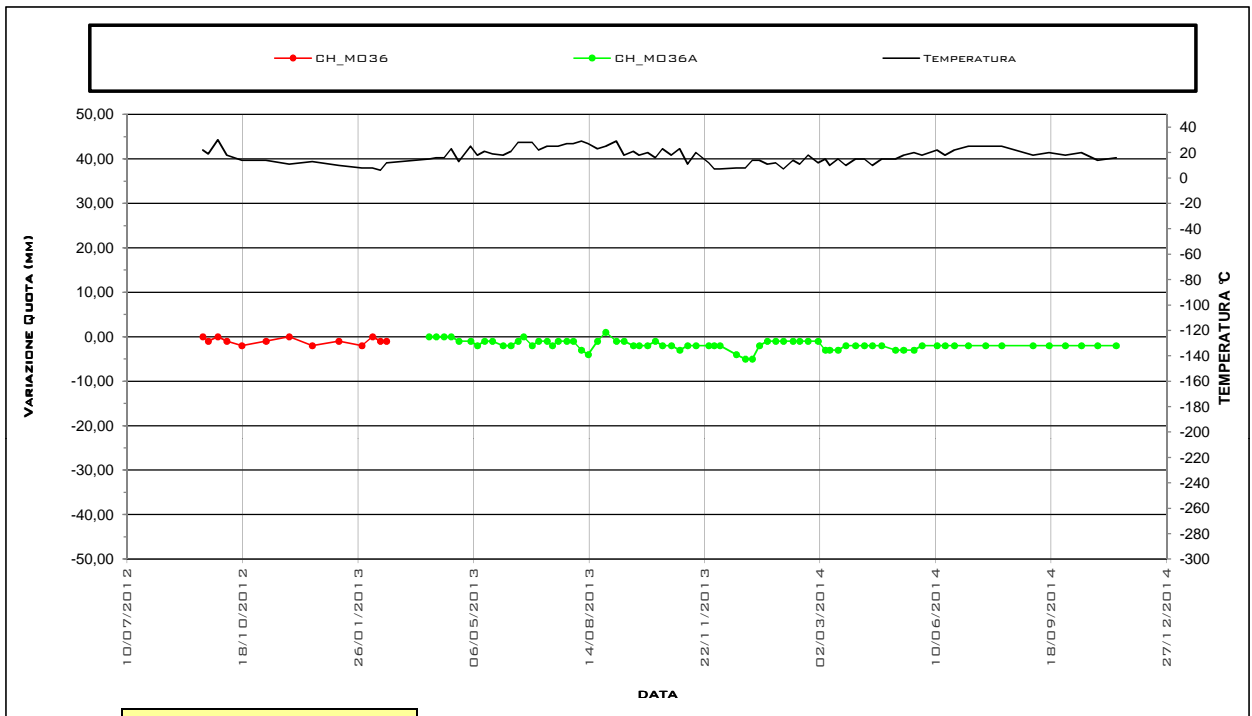


**Ubicazione** STAZIONE CHIAIA  
**Opera** \\ IV Ordine - Tufo \ 36A  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 13/09/2012  
**Data lettura di zero** 13/09/2012

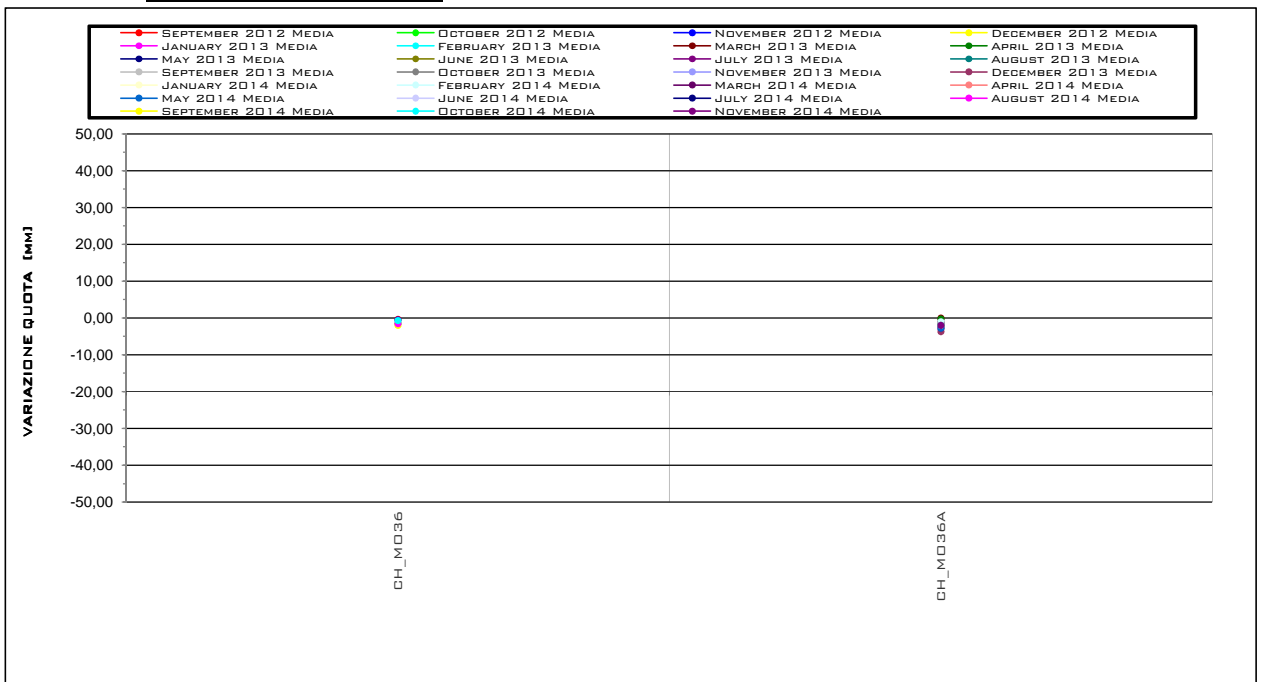
**UBICAZIONE**



**GRAFICO QUOTA**

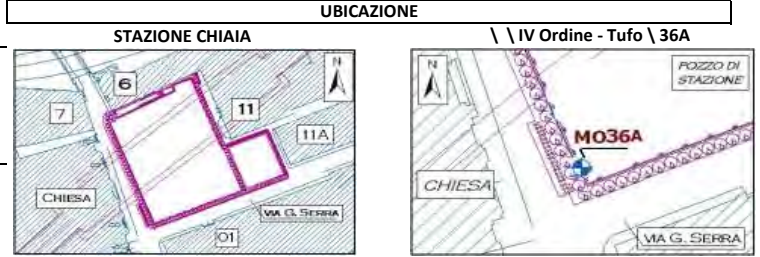


**GRAFICO ISOCRONE**

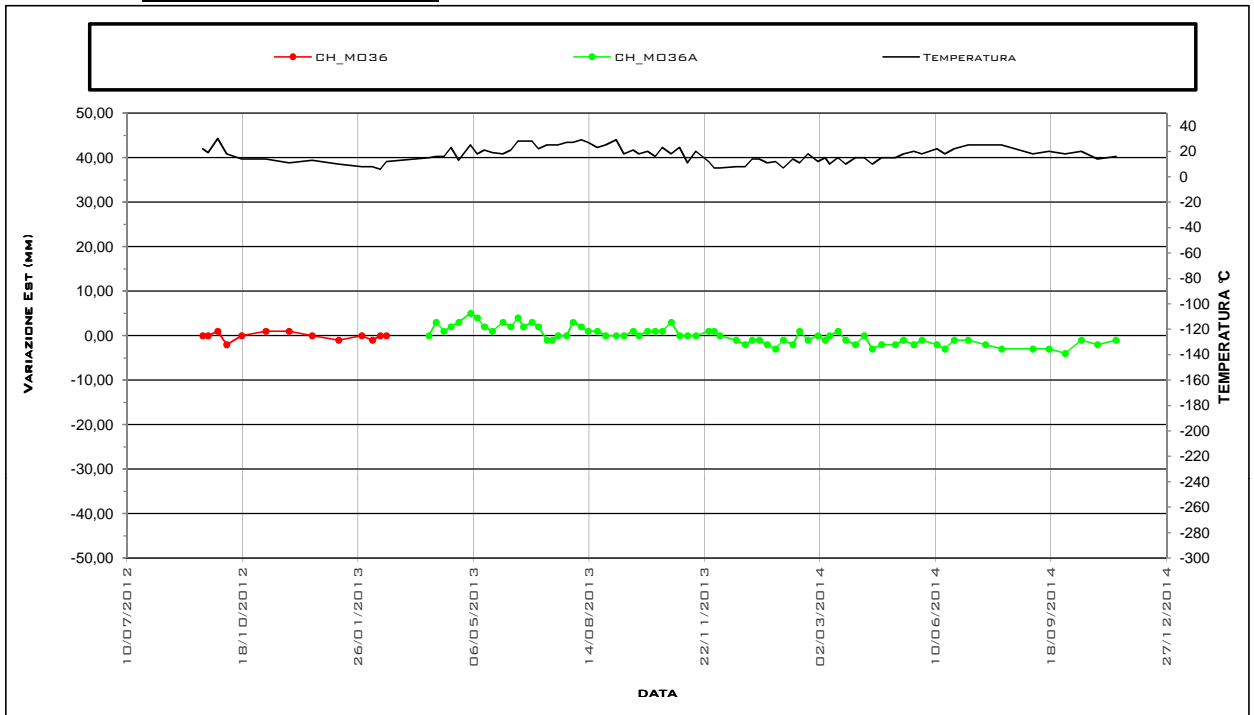




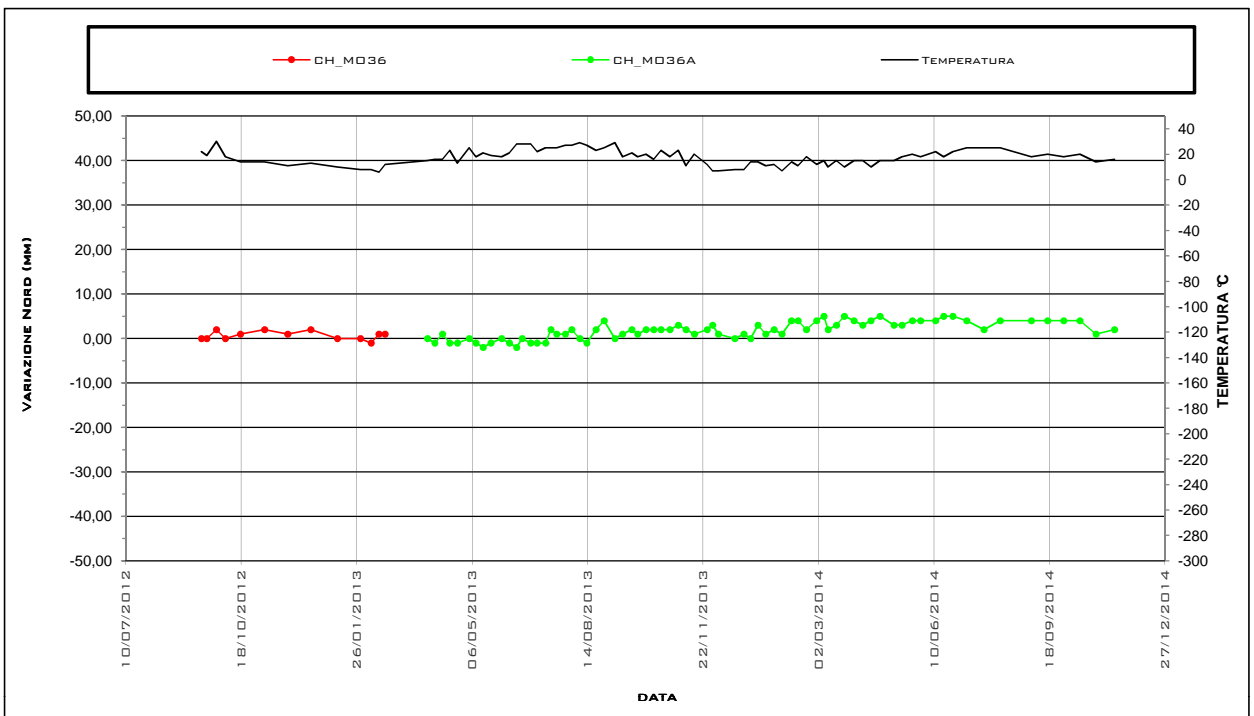
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ IV Ordine - Tufo \ 36A  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 13/09/2012  
**Data lettura di zero** 13/09/2012



**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

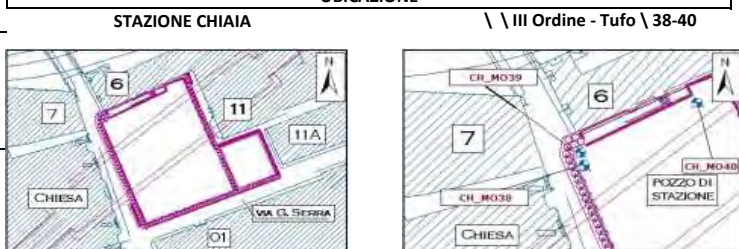
Ultima Misura 82 in data 13/11/2014

Lett. n°	DATA	CH_M038					CH_M039					CH_M040				
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1	07/02/2013 15.01	8,0	14,7				6,0	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
42	31/10/2013 14.30	23,0	14,7	-1,0	-2,0	3,0	23,0	14,6	1,0	-2,0	2,0	23,0	14,8	8,0	2,0	-1,0
43	07/11/2013 08.30	11,0	14,7	-1,0	-2,0	1,0	11,0	14,6	1,0	-2,0	0,0	11,0	14,8	8,0	1,0	0,0
44	14/11/2013 14.30	20,0	14,7	-1,0	-3,0	2,0	20,0	14,6	1,0	-4,0	0,0					
45	25/11/2013 15.30	12,0	14,7	-1,0	-2,0	1,0	12,0	14,6	1,0	-1,0	0,0					
46	30/11/2013 08.30	7,0	14,7	-1,0	-1,0	2,0	7,0	14,6	1,0	-1,0	2,0					
47	05/12/2013 08.30	7,0	14,7	-1,0	-1,0	3,0	7,0	14,6	1,0	-2,0	1,0					
48	19/12/2013 13.00	8,0	14,7	-3,0	-3,0	5,0	8,0	14,6	-1,0	-4,0	3,0					
49	27/12/2013 09.00	8,0	14,7	-4,0	-4,0	6,0	8,0	14,6	-2,0	-5,0	6,0					
50	02/01/2014 07.30	14,0	14,7	-5,0	-5,0	7,0	14,0	14,6	-2,0	-5,0	5,0					
51	08/01/2014 14.30	14,0	14,7	-2,0	-3,0	3,0	14,0	14,6	0,0	-5,0	3,0					
52	15/01/2014 08.30	11,0	14,7	-1,0	-2,0	2,0	11,0	14,6	1,0	-5,0	2,0					
53	22/01/2014 14.30	12,0	14,7	0,0	-3,0	3,0	12,0	14,6	1,0	-4,0	3,0					
54	29/01/2014 08.30	7,0	14,7	0,0	-1,0	4,0	7,0	14,6	1,0	-3,0	2,0					
55	06/02/2014 14.30	14,0	14,7	-2,0	-4,0	5,0	14,0	14,6	1,0	-5,0	3,0					
56	12/02/2014 08.30	11,0	14,7	-2,0	-3,0	5,0	11,0	14,6	1,0	-3,0	2,0					
57	19/02/2014 14.30	18,0	14,7	-2,0	-3,0	4,0	18,0	14,6	1,0	-4,0	4,0					
58	28/02/2014 08.30	12,0	14,7	-1,0	-4,0	6,0	12,0	14,6	1,0	-5,0	4,0					
59	06/03/2014 16.30	15,0	14,7	-2,0	-4,0	6,0	15,0	14,6	1,0	-4,0	5,0					
60	10/03/2014 08.30	10,0	14,7	-2,0	-3,0	6,0	10,0	14,6	1,0	-4,0	4,0					
61	17/03/2014 15.30	15,0	14,7	0,0	-3,0	6,0	15,0	14,6	2,0	-4,0	2,0					
62	24/03/2014 08.30	10,0	14,7	0,0	-2,0	6,0	10,0	14,6	2,0	-5,0	3,0					
63	01/04/2014 18.30	15,0	14,7	0,0	-5,0	5,0	15,0	14,6	2,0	-6,0	4,0					
64	09/04/2014 08.30	15,0	14,7	0,0	-3,0	5,0	15,0	14,6	2,0	-5,0	4,0					
65	16/04/2014 08.30	10,0	14,7	0,0	-5,0	6,0	10,0	14,6	2,0	-6,0	4,0					
66	24/04/2014 08.30	15,0	14,7	0,0	-4,0	6,0	15,0	14,6	2,0	-6,0	5,0					
67	06/05/2014 08.30	15,0	14,7	0,0	-3,0	4,0	15,0	14,6	1,0	-5,0	2,0					
68	13/05/2014 08.30	18,0	14,7	0,0	-3,0	5,0	18,0	14,6	1,0	-5,0	3,0					
69	22/05/2014 08.30	20,0	14,7	-1,0	-4,0	5,0	20,0	14,6	2,0	-5,0	3,0					
70	29/05/2014 08.30	18,0	14,7	-1,0	-5,0	5,0	18,0	14,6	2,0	-7,0	3,0					
71	11/06/2014 08.30	22,0	14,7	-1,0	-3,0	5,0	22,0	14,6	2,0	-6,0	3,0					
72	18/06/2014 08.30	18,0	14,7	-1,0	-3,0	6,0	18,0	14,6	2,0	-5,0	4,0					
73	26/06/2014 08.30	22,0	14,7	-1,0	-3,0	4,0	22,0	14,6	2,0	-5,0	2,0					
74	08/07/2014 08.30	25,0	14,7	-1,0	-2,0	5,0	25,0	14,6	2,0	-4,0	3,0					
75	23/07/2014 08.30	25,0	14,7	-1,0	-2,0	4,0	25,0	14,6	2,0	-4,0	1,0					
76	06/08/2014 08.30	25,0	14,7	-1,0	-6,0	4,0	25,0	14,6	2,0	-7,0	2,0					
77	02/09/2014 08.30	18,0	14,7	-1,0	-4,0	6,0	18,0	14,6	2,0	-5,0	4,0					
78	16/09/2014 08.30	20,0	14,7	-1,0	-											

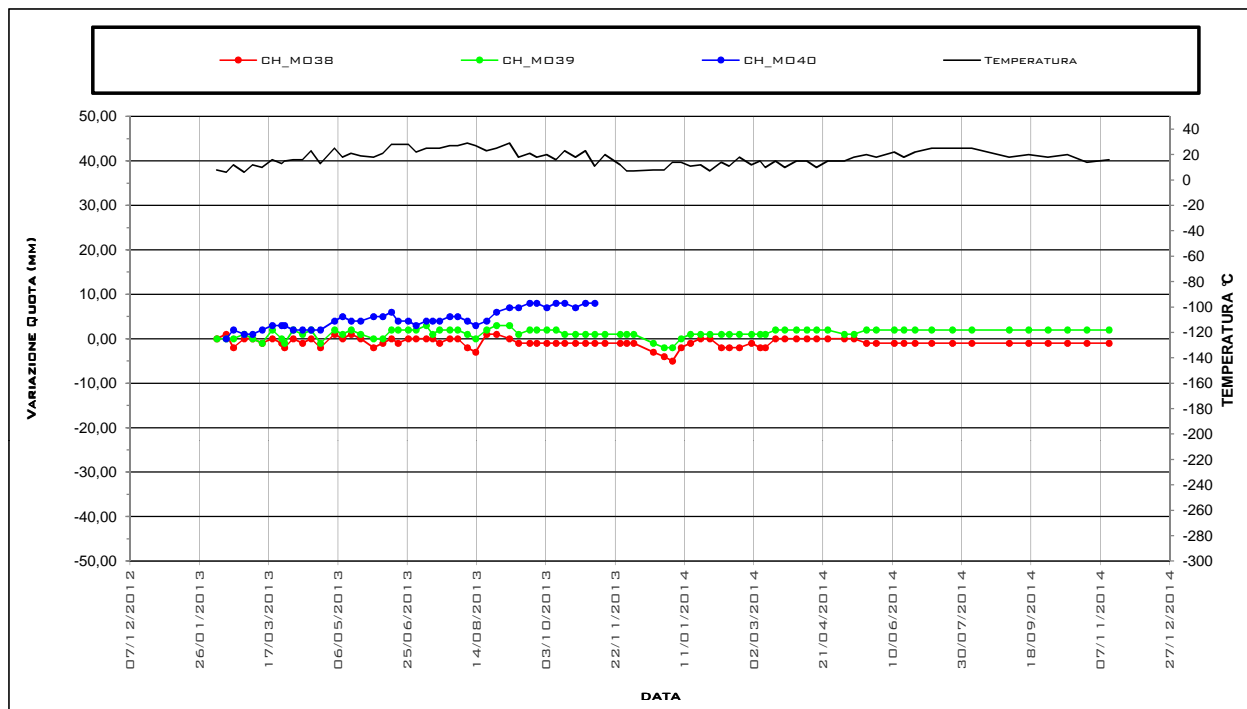


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ III Ordine - Tufo \ 38-40  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 07/02/2013  
**Data lettura di zero** 07/02/2013

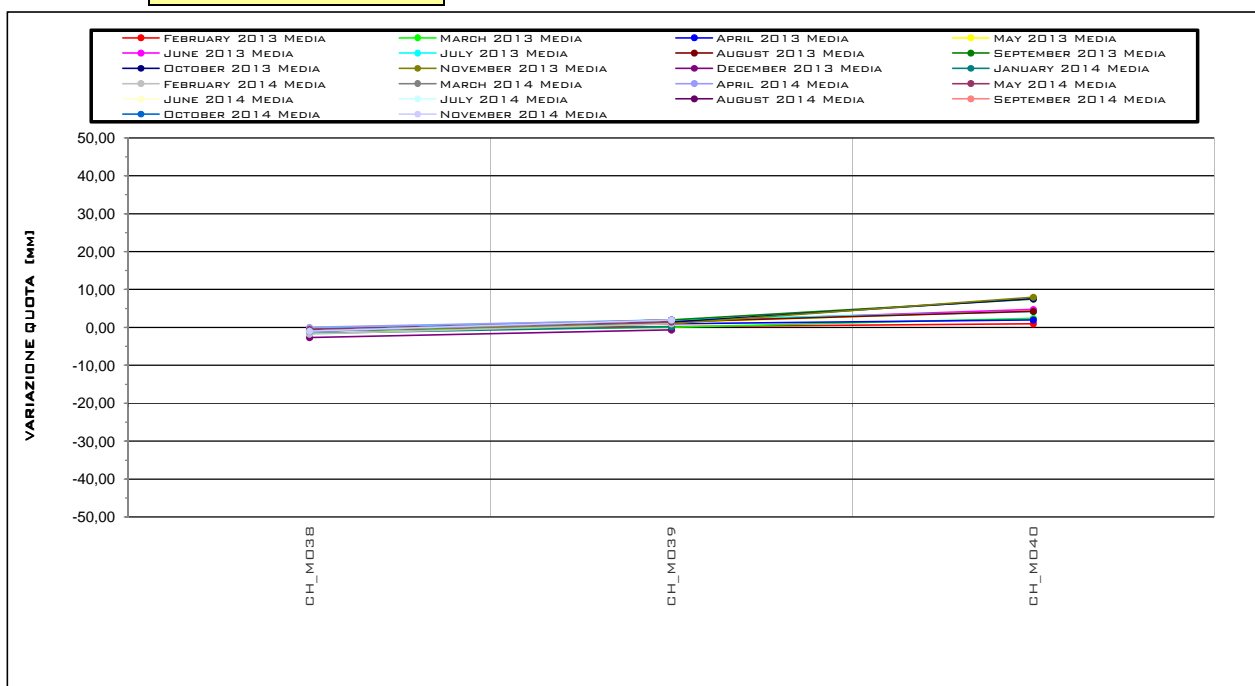
**UBICAZIONE**



**GRAFICO QUOTA**

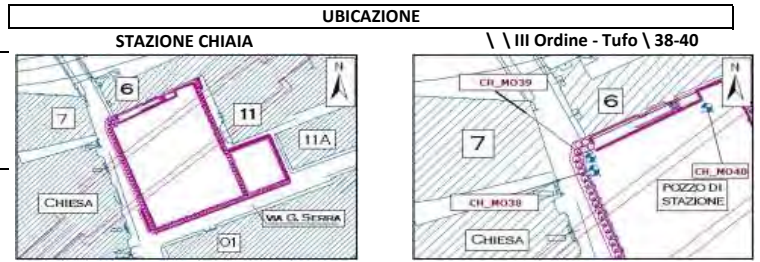


**GRAFICO ISOCRONE**

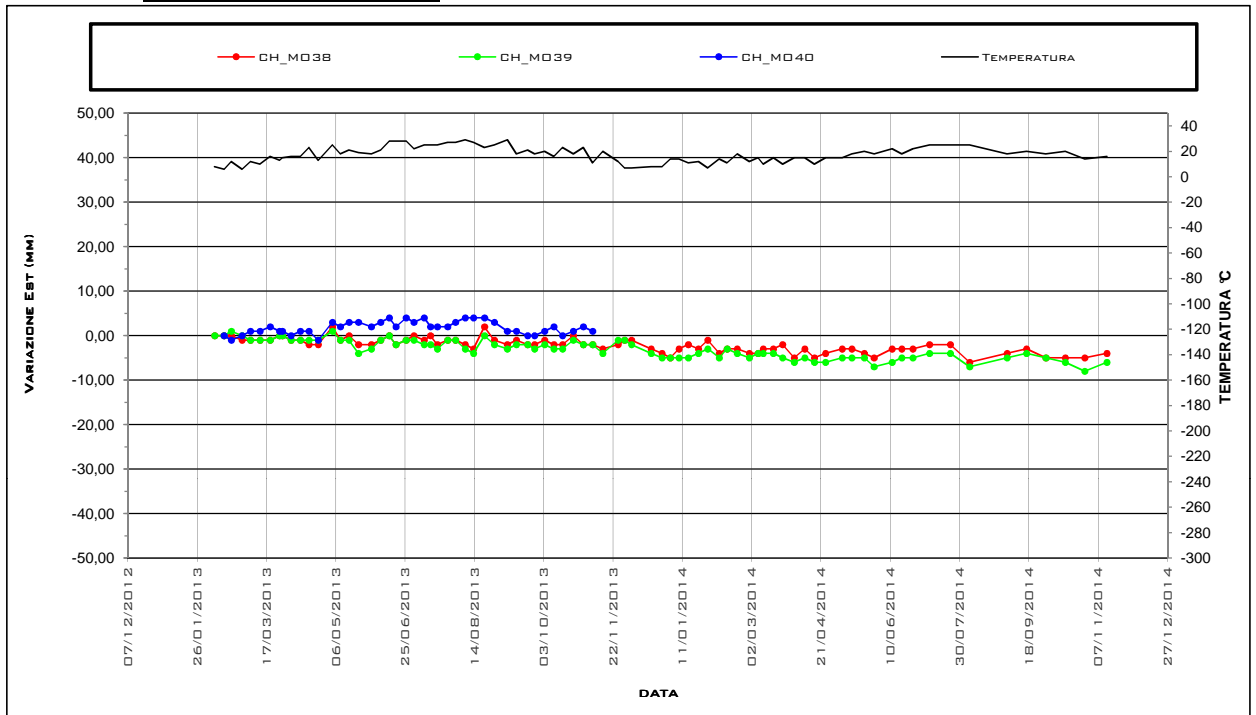




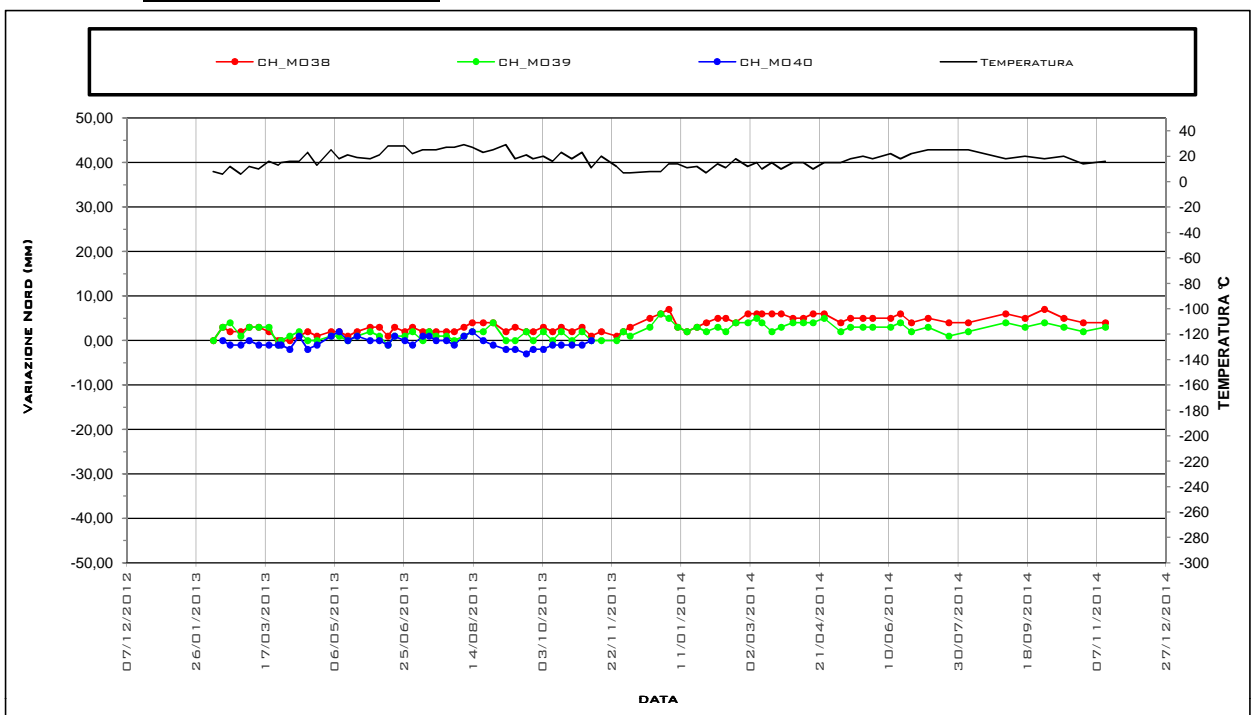
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ III Ordine - Tufo \ 38-40  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 07/02/2013  
**Data lettura di zero** 07/02/2013



**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

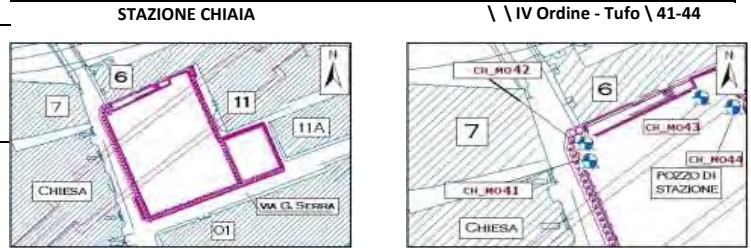
Ultima Misura 77 in data 13/11/2014

Lett. n°	DATA	CH_M041					CH_M042					CH_M043					CH_M044				
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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	-2,0
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	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										
37	31/10/2013 14.30	23,0	9,5	0,0	-2,0	5,0	23,0	9,4	2,0	-1,0	1,0	23,0	9,7	5,0	5,0	-5,0					
38	07/11/2013 08.30	11,0	9,5	0,0	-1,0	3,0	11,0	9,4	2,0	0,0	0,0										
39	14/11/2013 14.30	20,0	9,5	1,0	-3,0	4,0	20,0	9,4	2,0	-2,0	0,0										
40	25/11/2013 15.30	12,0	9,5	1,0	-1,0	3,0	12,0	9,4	2,0	-1,0	0,0										
41	30/11/2013 08.30	7,0	9,5	1,0	0,0	5,0	7,0	9,4	1,0	1,0	1,0										
42	05/12/2013 08.30	7,0	9,5	1,0	-3,0	4,0	7,0	9,4	2,0	0,0	1,0										
43	19/12/2013 13.00	8,0	9,5	-1,0	-4,0	6,0	8,0	9,4	-11,0	-3,0	2,0										
44	27/12/2013 09.00	8,0	9,5	-2,0	-5,0	7,0	8,0	9,4	-1,0	-5,0	4,0										
45	02/01/2014 07.30	14,0	9,5	-2,0	-6,0	8,0	14,0	9,4	-3,0	-6,0	4,0										
46	08/01/2014 14.30	14,0	9,5	0,0	-4,0	5,0	14,0	9,4	1,0	-3,0	2,0										
47	15/01/2014 08.30	11,0	9,5	1,0	-2,0	4,0	11,0	9,4	2,0	-2,0	1,0										
48	22/01/2014 14.30	12,0	9,5	2,0	-2,0	5,0	12,0	9,4	2,0	-2,0	1,0										
49	29/01/2014 08.30	7,0	9,5	2,0	-3,0	5,0	7,0	9,4	2,0	-2,0	1,0										
50	06/02/2014 14.30	14,0	9,5	1,0	-3,0	6,0	14,0	9,4	2,0	-3,0	3,0										
51	12/02/2014 08.30	11,0	9,5	1,0	-3,0	6,0	11,0	9,4	2,0	-3,0	2,0										
52	19/02/2014 14.30	18,0	9,5	1,0	-3,0	7,0	18,0	9,4	2,0	-2,0	3,0										
53	28/02/2014 08.30	12,0	9,5	2,0	-2,0	7,0	12,0	9,4	3,0	-3,0	4,0										
54	06/03/2014 16.30	15,0	9,5	2,0	-3,0	7,0	15,0	9,4	1,0	-3,0	3,0										
55	10/03/2014 08.30	10,0	9,5	2,0	-3,0	7,0	10,0	9,4	2,0	-2,0	4,0										
56	17/03/2014 15.30	15,0	9,5	2,0	-3,0	6,0	15,0	9,4	2,0	-3,0	3,0										
57	24/03/2014 08.30	10,0	9,5	2,0	-3,0	7,0	10,0	9,4	2,0	-4,0	4,0										
58	01/04/2014 18.30	15,0	9,5	2,0	-6,0	8,0	15,0	9,4	2,0	-6,0	3,0										
59	09/04/2014 08.30	15,0	9,5	2,0	-5,0	6,0	15,0	9,4	2,0	-4,0	3,0										
60	16/04/2014 08.30	10,0	9,5	2,0	-5,0	7,0	10,0	9,4	2,0	-3,0	3,0										
61	24/04/2014 08.30	15,0	9,5	2,0	-4,0	8,0	15,0	9,4	2,0	-5,0	4,0										
62	06/05/2014 08.30	15,0	9,5	1,0	-3,0	6,0	15,0	9,4	2,0	-4,0	1,0										
63	13/05/2014 08.30	18,0	9,5	1,0	-4,0	7,0	18,0	9,4	2,0	-5,0	2,0										
64	22/05/2014 08.30	20,0	9,5	2,0	-5,0	5,0	20,0	9,4	2,0	-5,0	2,0										
65	29/05/2014 08.30	18,0	9,5	1,0	-5,0	5,0	18,0	9,4	2,0	-6,0	1,0										
66	11/06/2014 08.30	22,0	9,5	1,0	-6,0	6,0	22,0	9,4	2,0	-7,0	2,0										

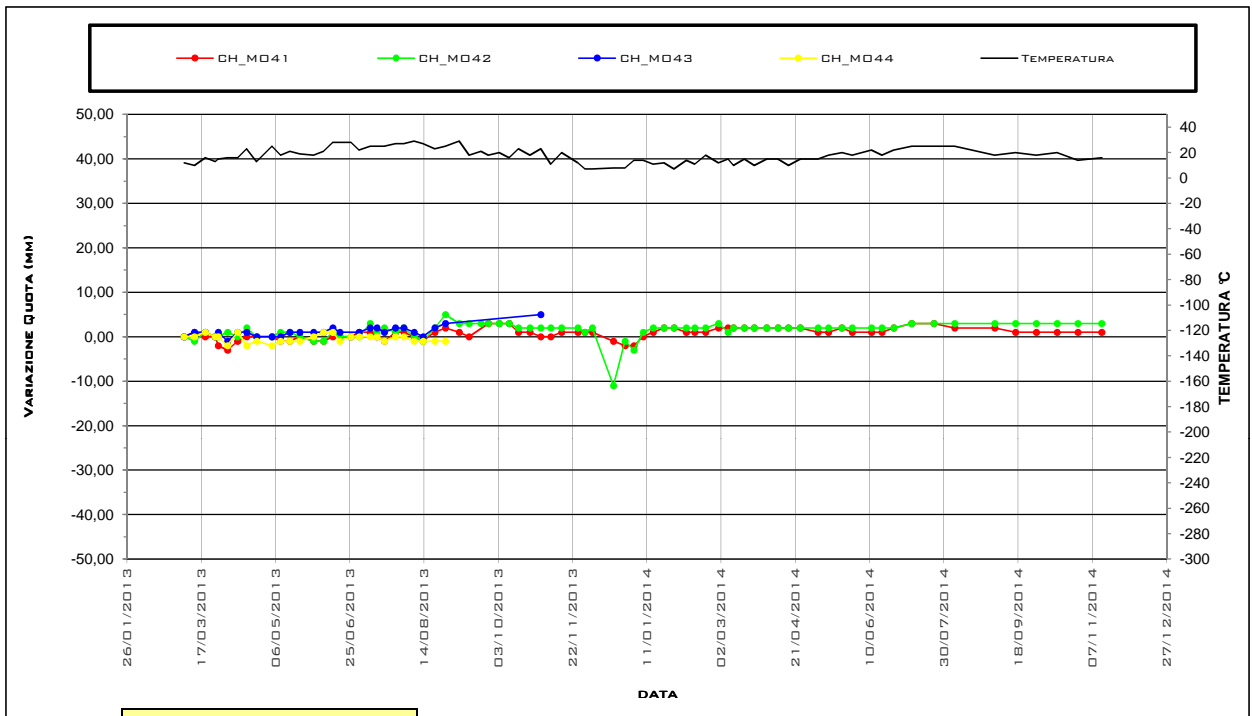


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ IV Ordine - Tufo \ 41-44  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 05/03/2013  
**Data lettura di zero** 05/03/2013

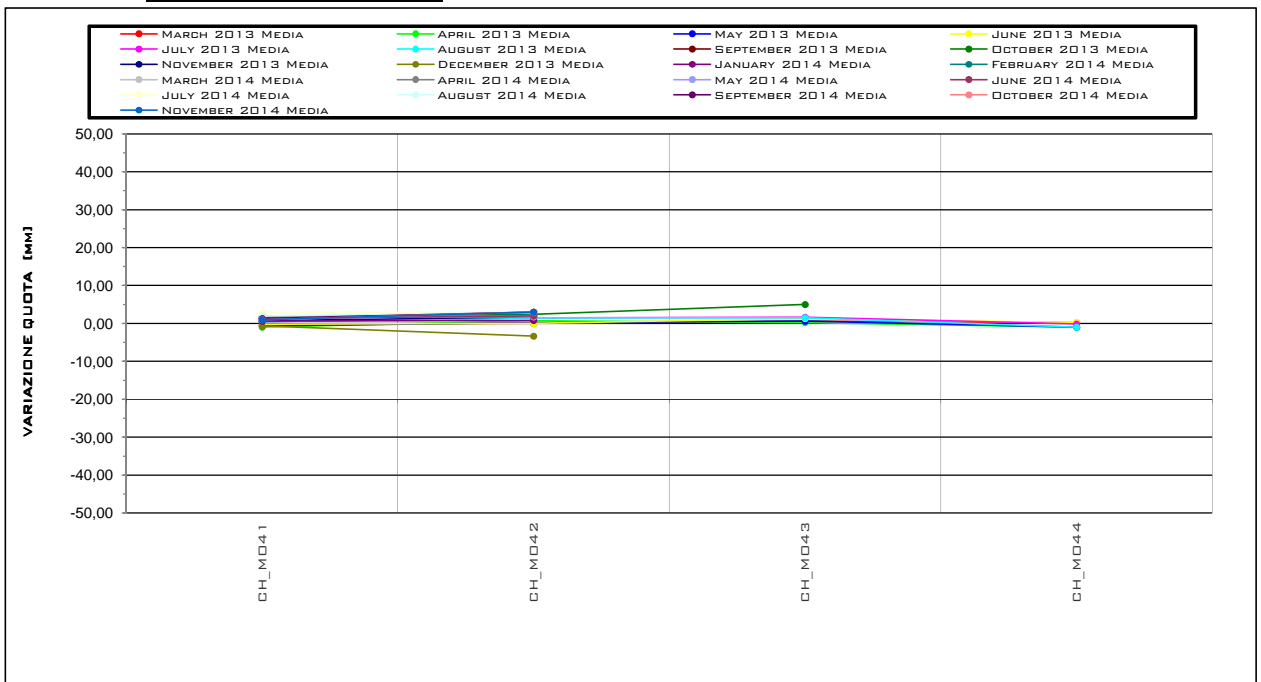
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**GRAFICO QUOTA**



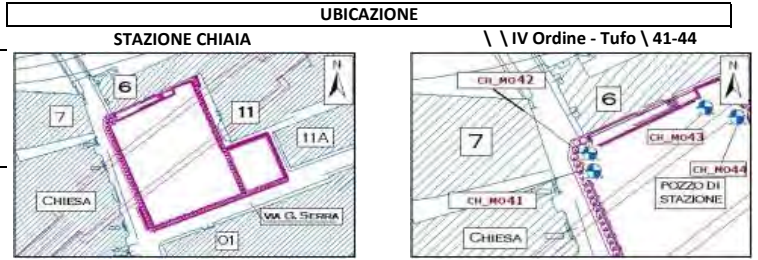
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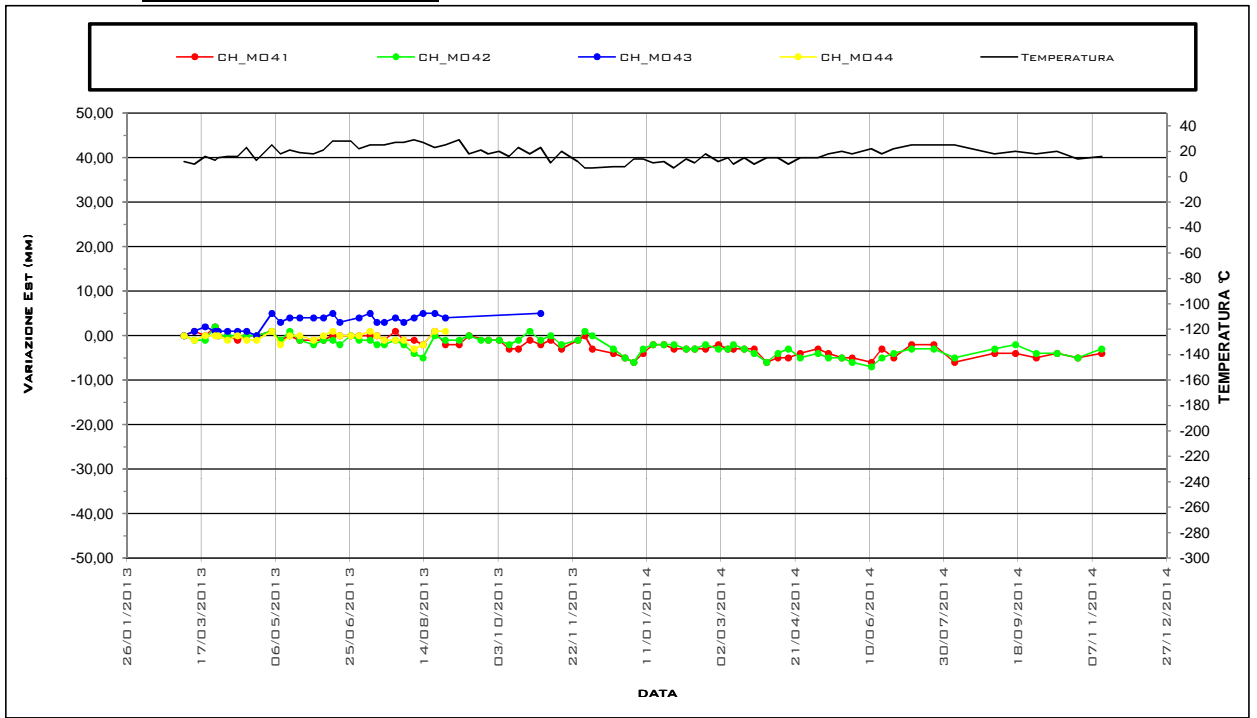




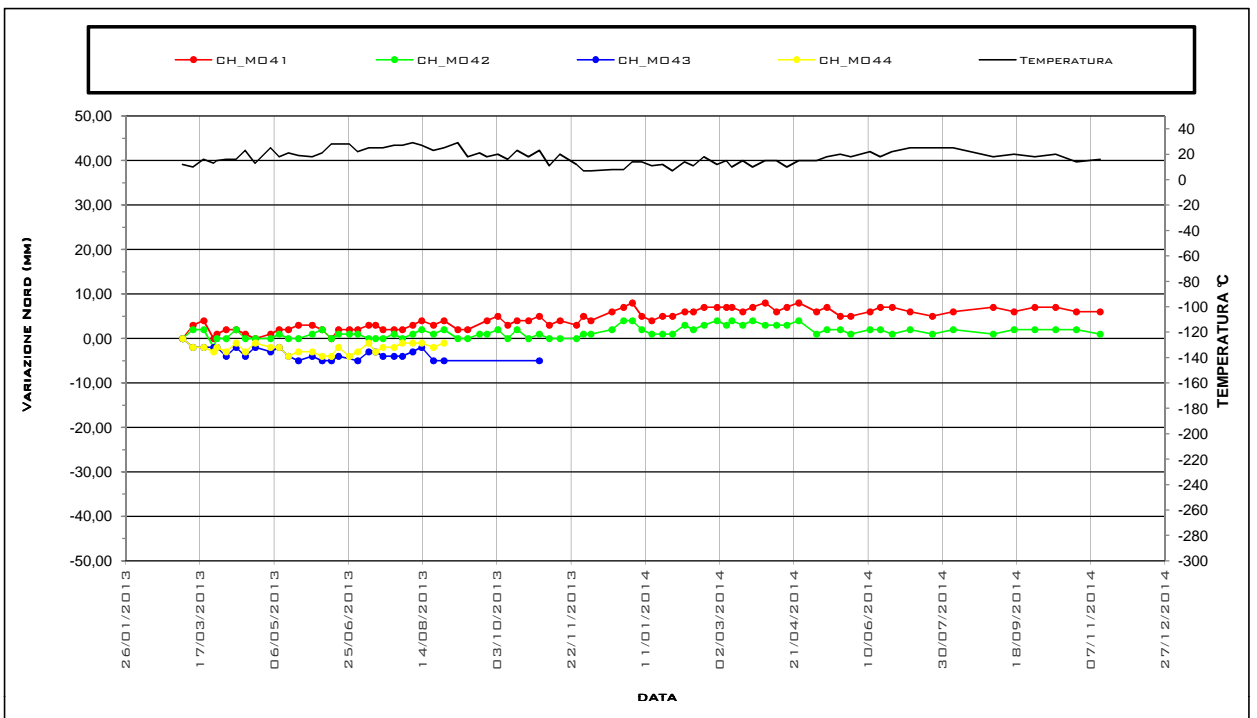
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ IV Ordine - Tufo \ 41-44  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 05/03/2013  
**Data lettura di zero** 05/03/2013



**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

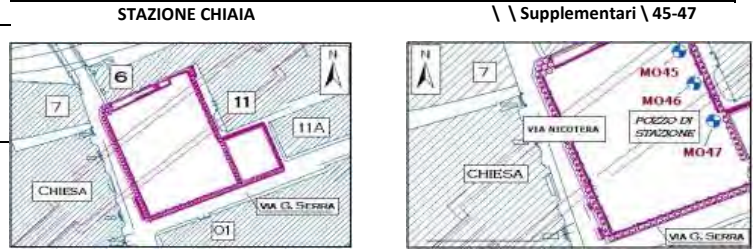
Ultima Misura 73 in data 13/11/2014

Lett. 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	0,0	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	0,0	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
33	31/10/2013 14.30	23,0	14,8	2,0	3,0	0,0	23,0	15,1	-2,0	2,0	1,0	23,0	15,3	-2,0	3,0	4,0
34	07/11/2013 08.30	11,0	14,8	2,0	3,0	2,0	11,0	15,1	-2,0	3,0	1,0	11,0	15,3	-3,0	4,0	4,0
35	14/11/2013 14.30	20,0	14,8	2,0	3,0	1,0	20,0	15,1	-2,0	2,0	1,0	20,0	15,3	-3,0	3,0	4,0
36	25/11/2013 15.30	12,0	14,8	2,0	2,0	2,0	12,0	15,1	-1,0	3,0	3,0	12,0	15,3	-2,0	3,0	4,0
37	30/11/2013 08.30	7,0	14,8	2,0	3,0	2,0	7,0	15,1	-1,0	3,0	1,0	7,0	15,3	-2,0	3,0	4,0
38	05/12/2013 08.30	7,0	14,8	2,0	3,0	0,0	7,0	15,1	-2,0	3,0	1,0	7,0	15,3	-2,0	3,0	2,0
39	19/12/2013 13.00	8,0	14,8	1,0	2,0	1,0	8,0	15,1	-3,0	2,0	1,0	8,0	15,3	-2,0	2,0	2,0
40	27/12/2013 09.00	8,0	14,8	0,0	1,0	2,0	8,0	15,1	-4,0	1,0	2,0	8,0	15,3	-2,0	1,0	3,0
41	02/01/2014 07.30	14,0	14,8	0,0	0,0	4,0	14,0	15,1	-3,0	2,0	1,0	14,0	15,3	-2,0	1,0	4,0
42	08/01/2014 14.30	14,0	14,8	1,0	4,0	3,0	14,0	15,1	-2,0	4,0	1,0	14,0	15,3	-1,0	5,0	3,0
43	15/01/2014 08.30						11,0	15,1	-2,0	4,0	1,0	11,0	15,3	0,0	2,0	3,0
44	22/01/2014 14.30						12,0	15,1	-2,0	5,0	2,0	12,0	15,3	-1,0	4,0	3,0
45	29/01/2014 08.30						7,0	15,1	-2,0	2,0	2,0	7,0	15,3	-2,0	2,0	3,0
46	06/02/2014 14.30						14,0	15,1	-1,0	3,0	1,0	14,0	15,3	-2,0	4,0	2,0
47	12/02/2014 08.30						11,0	15,1	0,0	3,0	1,0	11,0	15,3	-1,0	3,0	2,0
48	19/02/2014 14.30						18,0	15,1	-2,0	5,0	1,0	18,0	15,3	-1,0	3,0	3,0
49	28/02/2014 08.30						12,0	15,1	-2,0	1,0	0,0	12,0	15,3	-1,0	1,0	0,0
50	06/03/2014 16.30						15,0	15,1	-2,0	4,0	2,0	15,0	15,3	-1,0	4,0	2,0
51	10/03/2014 08.30						10,0	15,1	-2,0	4,0	2,0	10,0	15,3	-1,0	5,0	2,0
52	17/03/2014 15.30						15,0	15,1	-2,0	2,0	-1,0	15,0	15,3	-2,0	2,0	1,0
53	24/03/2014 08.30						10,0	15,1	-2,0	4,0	2,0	10,0	15,3	-2,0	4,0	1,0
54	01/04/2014 18.30						15,0	15,1	-2,0	2,0	0,0	15,0	15,3	-2,0	2,0	2,0
55	09/04/2014 08.30						15,0	15,1	-2,0	3,0	0,0	15,0	15,3	-2,0	1,0	0,0
56	16/04/2014 08.30						10,0	15,1	-2,0	4,0	2,0	10,0	15,3	-2,0	2,0	2,0
57	24/04/2014 08.30						15,0	15,1	-2,0	3,0	1,0	15,0	15,3	-2,0	1,0	1,0
58	06/05/2014 08.30						15,0	15,1	-3,0	3,0	1,0	15,0	15,3	-3,0	4,0	3,0
59	13/05/2014 08.30						18,0	15,1	-3,0	3,0	0,0	18,0	15,3	-3,0	3,0	0,0
60	22/05/2014 08.30						20,0	15,1	-3,0	3,0	1,0	20,0	15,3	-3,0	2,0	1,0
61	29/05/2014 08.30						18,0	15,1	-3,0	3,0	1,0	18,0	15,3	-3,0	3,0	2,0
62	11/06/2014 08.30						22,0	15,1	-3,0	3,0	0,0	22,0	15,3	-3,0	2,0	1,0
63	18/06/2014 08.30						18,0	15,1	-3,0	2,0	1,0	18,0	15,3	-3,0	3,0	2,0
64	26/06/2014 08.30						22,0	15,1	-3,0	4,0	0,0	22,0	15,3	-3,0	0,0	0,0
65	08/07/2014 08.30						25,0	15,1	-3,0	4,0	1,0	25,0	15,3	-2,0	2,0	1,0
66	23/07/2014 08.30						25,0	15,1	-3,0	2,0	1,0	25,0	15,3	-2,0	2,0	3,0
67	06/08/2014 08.30						25,0	15,1	-3,0	4,0	0,0	25,0	15,3	-2,0	2,0	0,0
68	02/09/2014 08.30						18,0	15,1	-3,0	4,0	1,0	18,0	15,3	-2,0	3,0	1,0
69	16/09/2014 08.30						20,0	15,1	-3,0	4,0	1,0	20,0	15,3	-2,0	3,0	1,0
70	30/09/2014 08.30						18,0	15,1	-2,0	4,0	-1,0	18,0	15,3	-2,0	3,0	1,0
71	14/10/2014 08.30						20,0	15,1	-2,0	5,0	0,0	20,0	15,3	-2,0	4,0	1,0
72	28/10/2014 08.30						14,0	15,1	-2,0	6,0	0,0	14,0	15,3	-2,0	5,0	2,0
73	13/11/2014 08.30						16,0	15,1	-2,0	3,0	1,0	16,0	15,3	-2,0	3,0	2,0

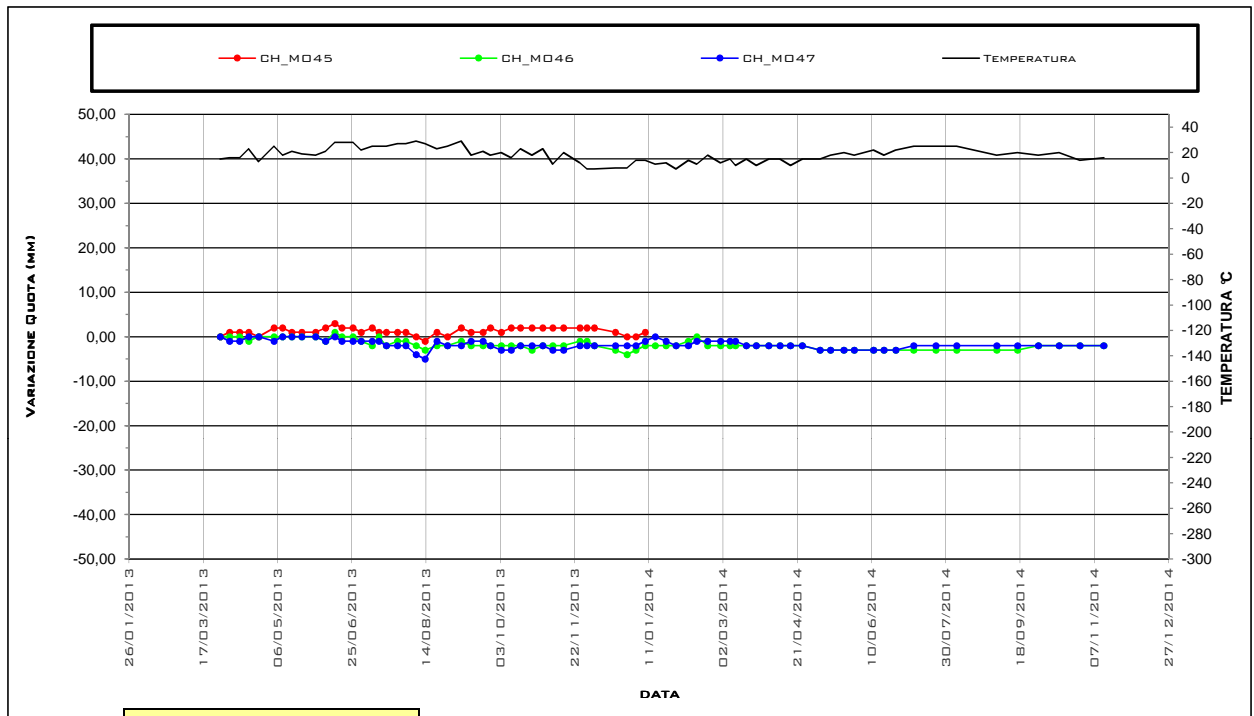


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 45-47  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 28/03/2013  
**Data lettura di zero** 28/03/2013

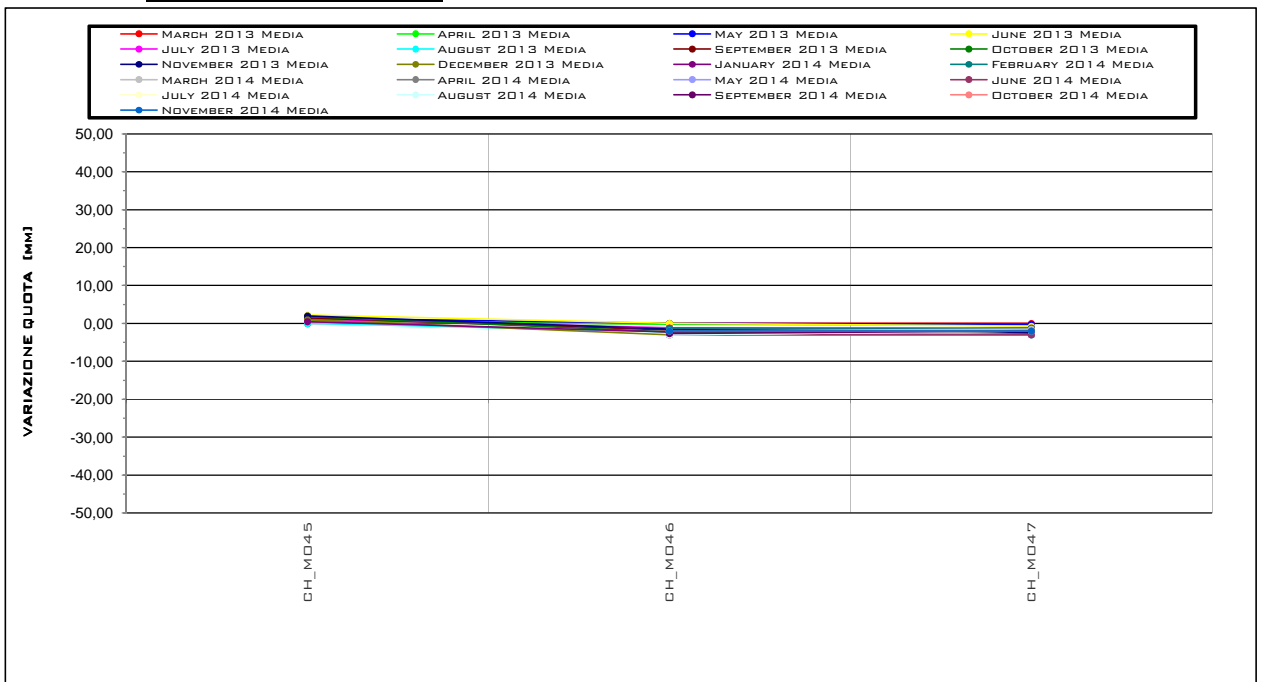
**UBICAZIONE**



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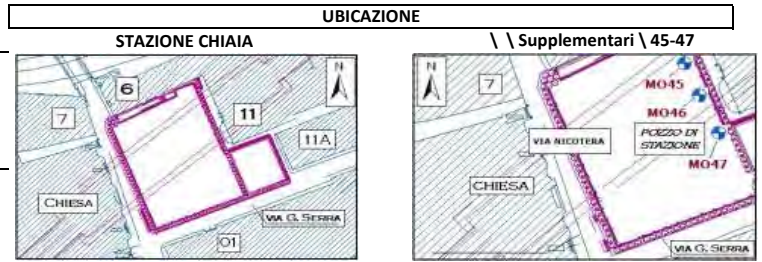


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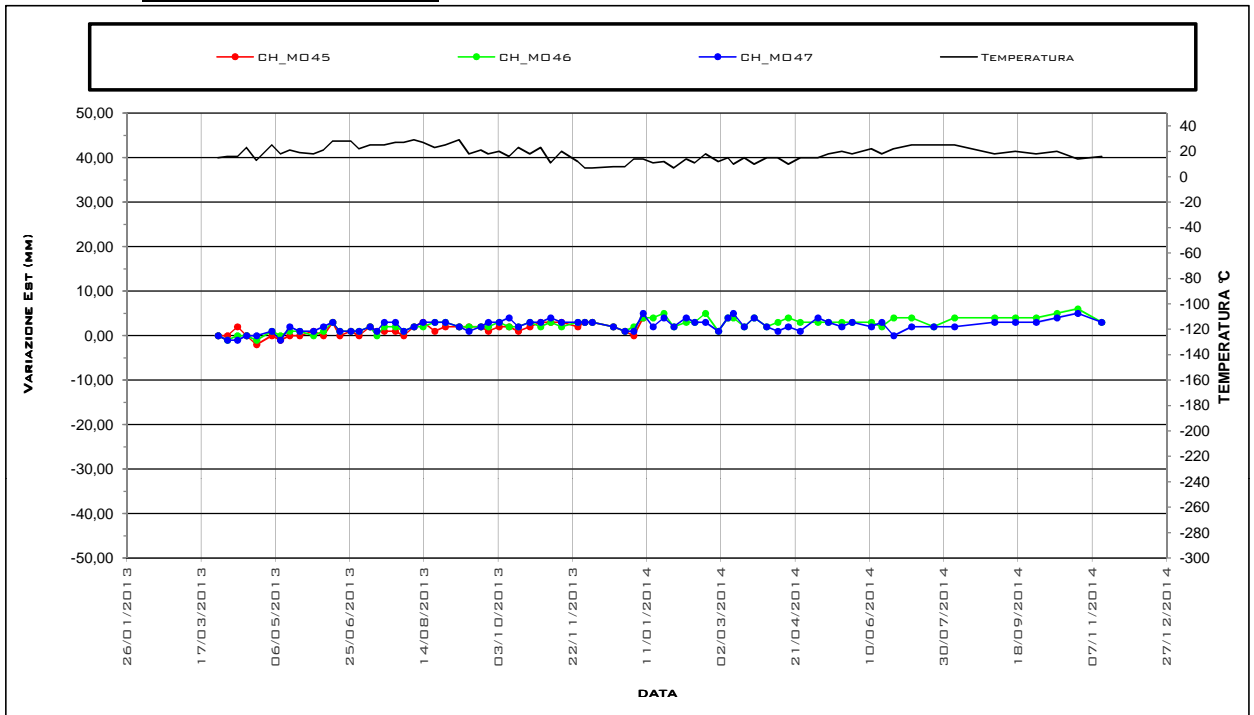




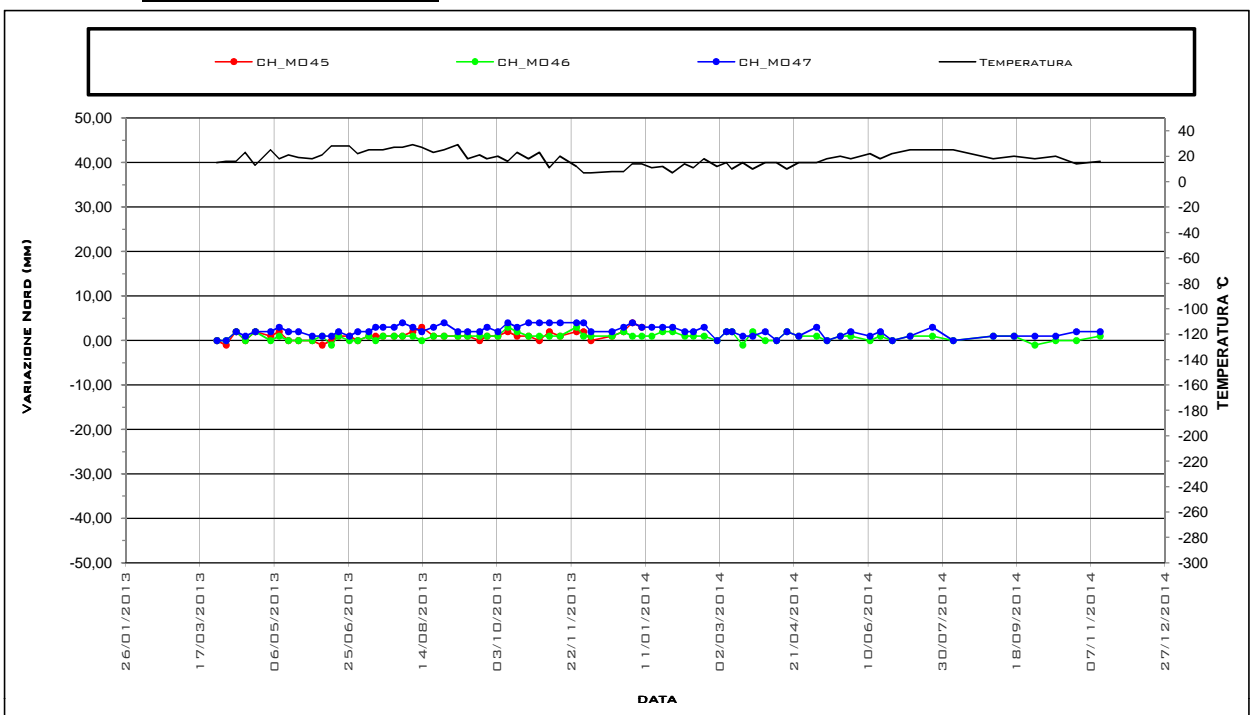
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 45-47  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 28/03/2013  
**Data lettura di zero** 28/03/2013



**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

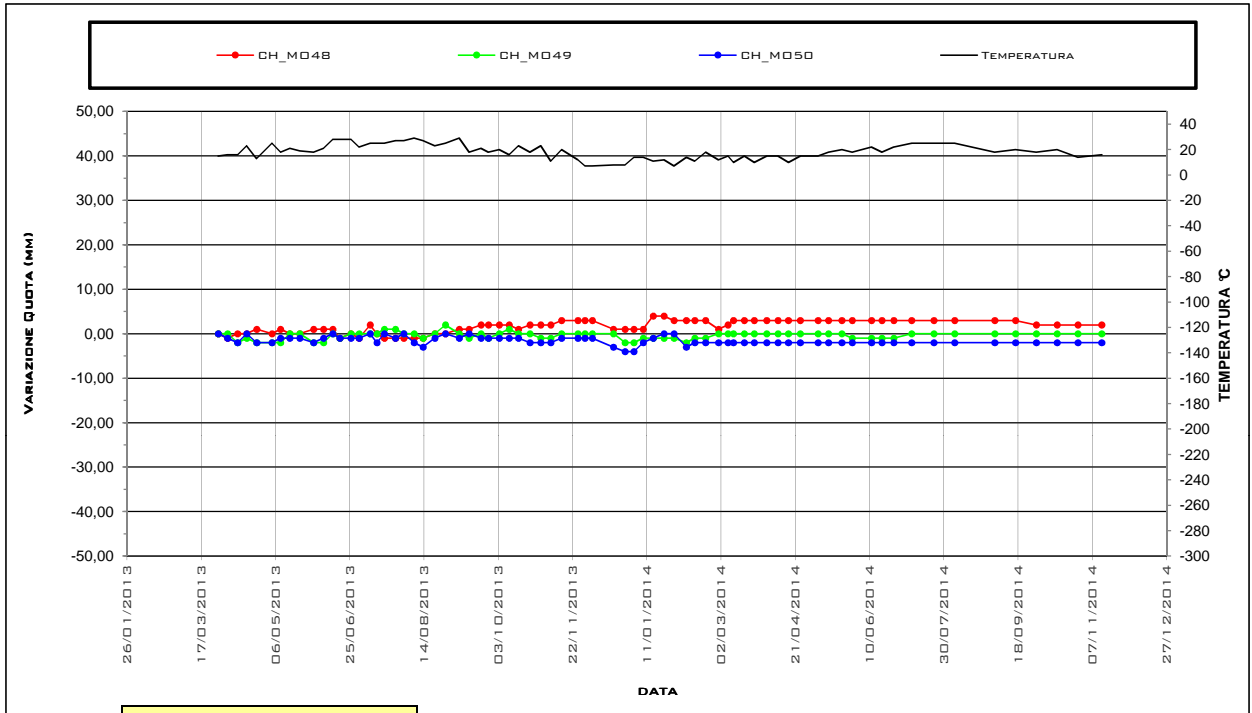
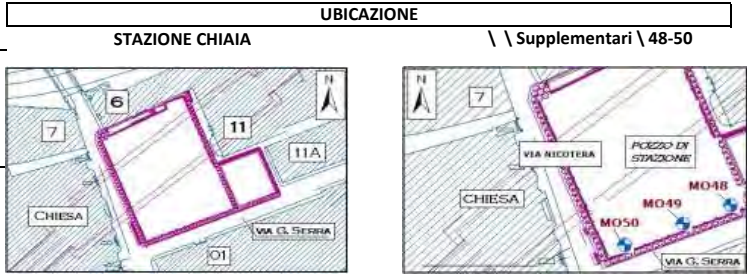
Ultima Misura 73 in data 13/11/2014

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		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	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
33	31/10/2013 14.30	23,0	16,1	2,0	5,0	4,0	23,0	17,4	-1,0	-3,0	2,0	23,0	20,6	-2,0	-1,0	1,0
34	07/11/2013 08.30	11,0	16,1	2,0	6,0	3,0	11,0	17,4	-1,0	-2,0	0,0	11,0	20,6	-2,0	-1,0	-1,0
35	14/11/2013 14.30	20,0	16,1	3,0	5,0	4,0	20,0	17,4	0,0	-3,0	2,0	20,0	20,6	-1,0	-1,0	1,0
36	25/11/2013 15.30	12,0	16,1	3,0	5,0	4,0	12,0	17,4	0,0	-2,0	0,0	12,0	20,6	-1,0	0,0	1,0
37	30/11/2013 08.30	7,0	16,1	3,0	6,0	3,0	7,0	17,4	0,0	0,0	1,0	7,0	20,6	-1,0	1,0	2,0
38	05/12/2013 08.30	7,0	16,1	3,0	3,0	2,0	7,0	17,4	0,0	-2,0	0,0	7,0	20,6	-1,0	-1,0	1,0
39	19/12/2013 13.00	8,0	16,1	1,0	4,0	0,0	8,0	17,4	0,0	-3,0	-1,0	8,0	20,6	-3,0	-1,0	-1,0
40	27/12/2013 09.00	8,0	16,1	1,0	5,0	1,0	8,0	17,4	-2,0	-2,0	-2,0	8,0	20,6	-4,0	-2,0	0,0
41	02/01/2014 07.30	14,0	16,1	1,0	6,0	1,0	14,0	17,4	-2,0	-2,0	-2,0	14,0	20,6	-4,0	-2,0	-1,0
42	08/01/2014 14.30	14,0	16,1	1,0	9,0	2,0	14,0	17,4	-1,0	-3,0	3,0	14,0	20,6	-2,0	-1,0	1,0
43	15/01/2014 08.30	11,0	16,1	4,0	7,0	1,0	11,0	17,4	-1,0	-4,0	-1,0	11,0	20,6	-1,0	-3,0	0,0
44	22/01/2014 14.30	12,0	16,1	4,0	5,0	3,0	12,0	17,4	-1,0	-4,0	-1,0	12,0	20,6	0,0	-2,0	1,0
45	29/01/2014 08.30	7,0	16,1	3,0	5,0	2,0	7,0	17,4	-1,0	-3,0	-1,0	7,0	20,6	0,0	-2,0	0,0
46	06/02/2014 14.30	14,0	16,1	3,0	5,0	1,0	14,0	17,4	-2,0	-4,0	1,0	14,0	20,6	-3,0	-3,0	1,0
47	12/02/2014 08.30	11,0	16,1	3,0	6,0	2,0	11,0	17,4	-1,0	-1,0	4,0	11,0	20,6	-2,0	-1,0	3,0
48	19/02/2014 14.30	18,0	16,1	3,0	5,0	3,0	18,0	17,4	-1,0	-4,0	1,0	18,0	20,6	-2,0	-2,0	2,0
49	28/02/2014 08.30	12,0	16,1	1,0	1,0	0,0	12,0	17,4	0,0	-4,0	3,0	12,0	20,6	-2,0	-2,0	3,0
50	06/03/2014 16.30	15,0	16,1	2,0	5,0	2,0	15,0	17,4	0,0	-3,0	3,0	15,0	20,6	-2,0	-1,0	4,0
51	10/03/2014 08.30	10,0	16,1	3,0	7,0	3,0	10,0	17,4	0,0	-2,0	3,0	10,0	20,6	-2,0	-1,0	3,0
52	17/03/2014 15.30	15,0	16,1	3,0	3,0	0,0	15,0	17,4	0,0	-2,0	3,0	15,0	20,6	-2,0	0,0	3,0
53	24/03/2014 08.30	10,0	16,1	3,0	5,0	3,0	10,0	17,4	0,0	-3,0	2,0	10,0	20,6	-2,0	-2,0	3,0
54	01/04/2014 18.30	15,0	16,1	3,0	5,0	2,0	15,0	17,4	0,0	-3,0	2,0	15,0	20,6	-2,0	-2,0	5,0
55	09/04/2014 08.30	15,0	16,1	3,0	5,0	2,0	15,0	17,4	0,0	-2,0	4,0	15,0	20,6	-2,0	-1,0	3,0
56	16/04/2014 08.30	10,0	16,1	3,0	7,0	5,0	10,0	17,4	0,0	-5,0	6,0	10,0	20,6	-2,0	-3,0	5,0
57	24/04/2014 08.30	15,0	16,1	3,0	4,0	2,0	15,0	17,4	0,0	-5,0	6,0	15,0	20,6	-3,0	-3,0	6,0
58	06/05/2014 08.30	15,0	16,1	3,0	5,0	5,0	15,0	17,4	0,0	-4,0	4,0	15,0	20,6	-3,0	-3,0	2,0
59	13/05/2014 08.30	18,0	16,1	3,0	7,0	4,0	18,0	17,4	0,0	-2,0	4,0	18,0	20,6	-3,0	-1,0	4,0
60	22/05/2014 08.30	20,0	16,1	3,0	5,0	4,0	20,0	17,4	0,0	-4,0	4,0	20,0	20,6	-3,0	-3,0	3,0
61	29/05/2014 08.30	18,0	16,1	3,0	8,0	4,0	18,0	17,4	-1,0	-4,0	3,0	18,0	20,6	-2,0	-2,0	2,0
62	11/06/2014 08.30	22,0	16,1	3,0	6,0	5,0	22,0	17,4	-1,0	-4,0	6,0	22,0	20,6	-2,0	-2,0	4,0
63	18/06/2014 08.30	18,0	16,1	3,0	6,0	6,0	18,0	17,4	-1,0	-5,0	3,0	18,0	20,6	-2,0	-4,0	4,0
64	26/06/2014 08.30	22,0	16,1	3,0	4,0	3,0	22,0	17,4	-1,0	-3,0	4,0	22,0	20,6	-2,0	-2,0	3,0
65	08/07/2014 08.30	25,0	16,1	3,0	7,0	3,0	25,0	17,4	0,0	-5,0	2,0	25,0	20,6	-2,0	-2,0	4,0
66	23/07/2014 08.30	25,0	16,1	3,0	7,0	5,0	25,0	17,4	0,0	-5,0	3,0	25,0	20,6	-2,0	-4,0	3,0
67	06/08/2014 08.30	25,0	16,1	3,0	7,0	3,0	25,0	17,4	0,0	-5,0	4,0	25,0	20,6	-2,0	-5,0	3,0
68	02/09/2014 08.30	18,0	16,1	3,0	7,0	4,0	18,0	17,4	0,0	-6,0	2,0	18,0	20,6	-2,0	-5,0	4,0
69	16/09/2014 08.30	20,0	16,1	3,0	8,0	4,0	20,0	17,4	0,0	-7,0	1,0	20,0	20,6	-2,0	-5,0	2,0
70	30/09/2014 08.30	18,0	16,1	2,0	7,0	4,0	18,0	17,4	0,0	-6,0	3,0	18,0	20,6	-2,0	-5,0	4,0
71	14/10/2014 08.30	20,0	16,1	2,0	7,0	4,0	20,0	17,4	0,0	-4,0	6,0	20,0	20,6	-2,0	-1,0	4,0
72	28/10/2014 08.30	14,0	16,1	2,0	7,0	4,0	14,0	17,4	0,0	-6,0	4,0	14,0	20,6	-2,0	-4,0	5,0
73	13/1															

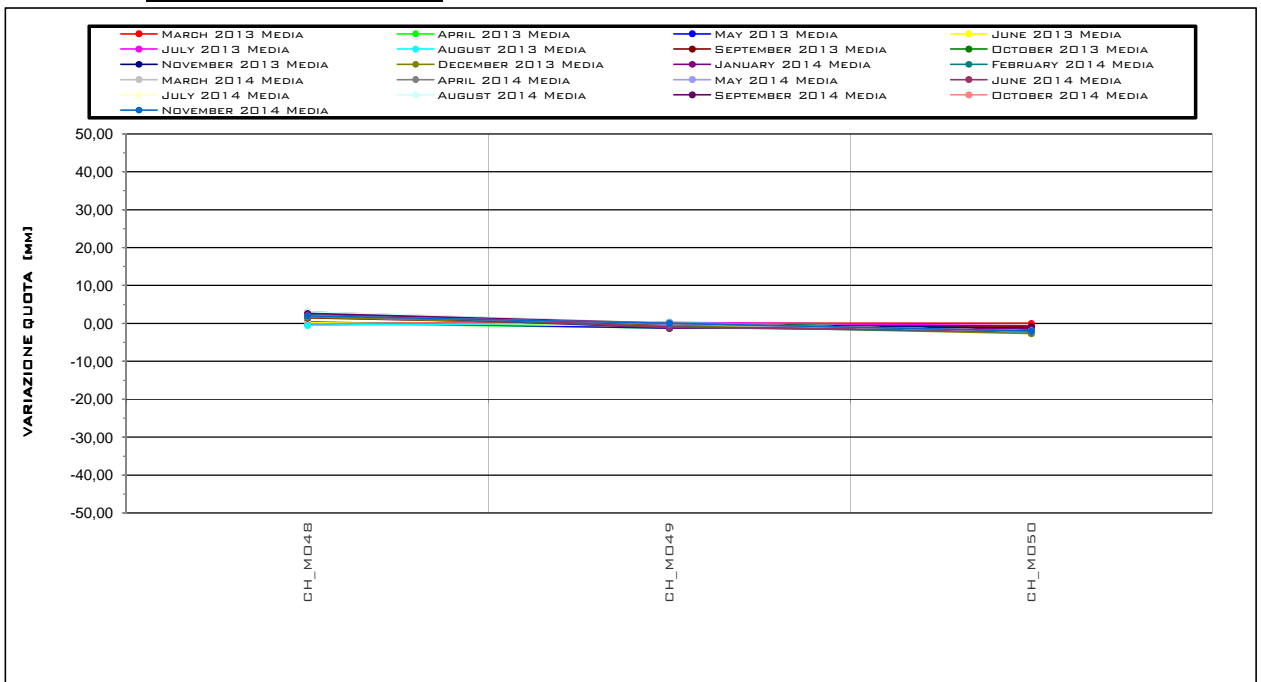


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 48-50  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 28/03/2013  
**Data lettura di zero** 28/03/2013

**GRAFICO QUOTA**

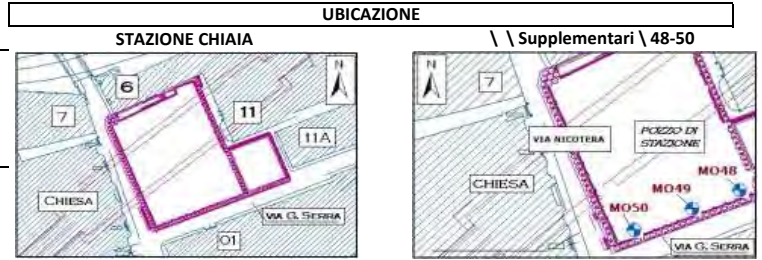


**GRAFICO ISOCRONE**

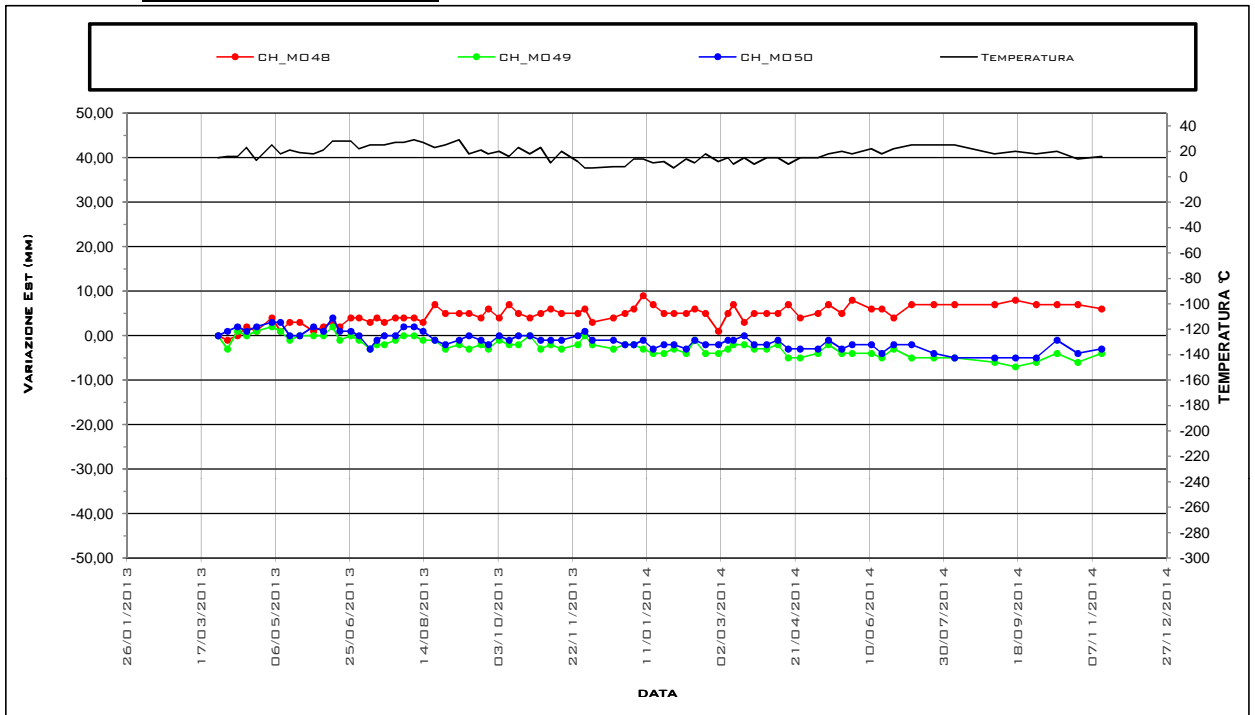




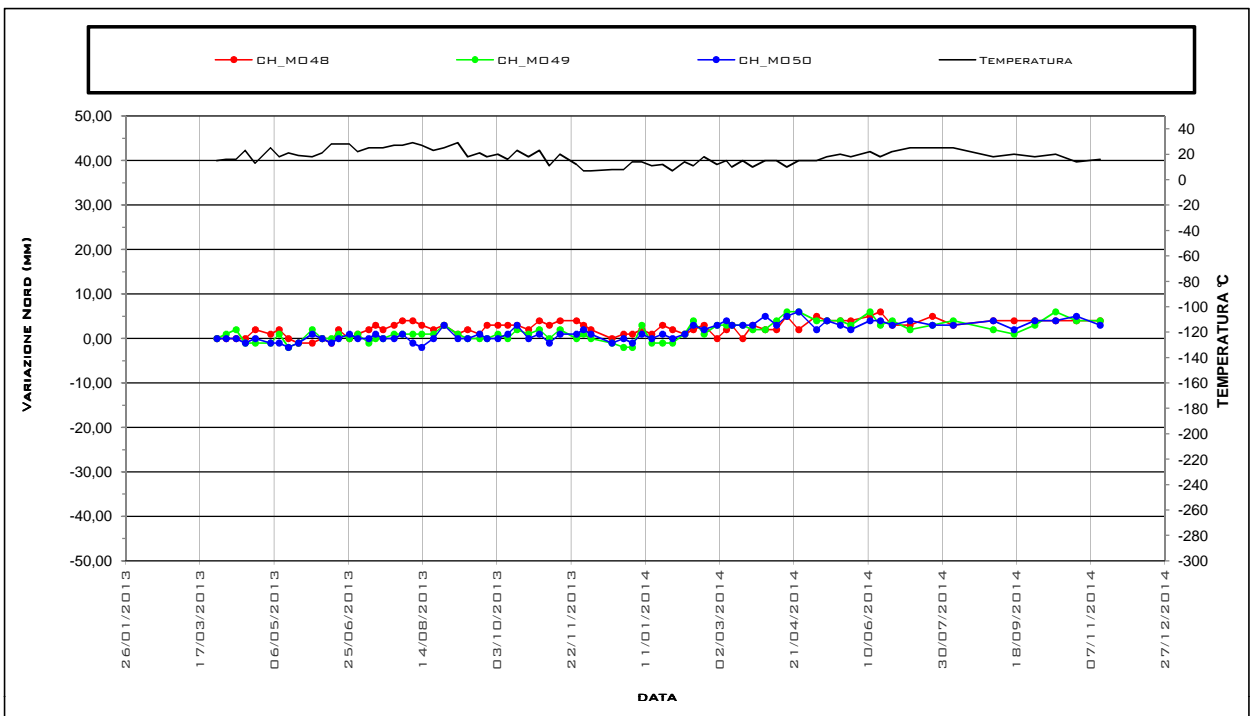
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 48-50  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 28/03/2013  
**Data lettura di zero** 28/03/2013



**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 73 in data 13/11/2014

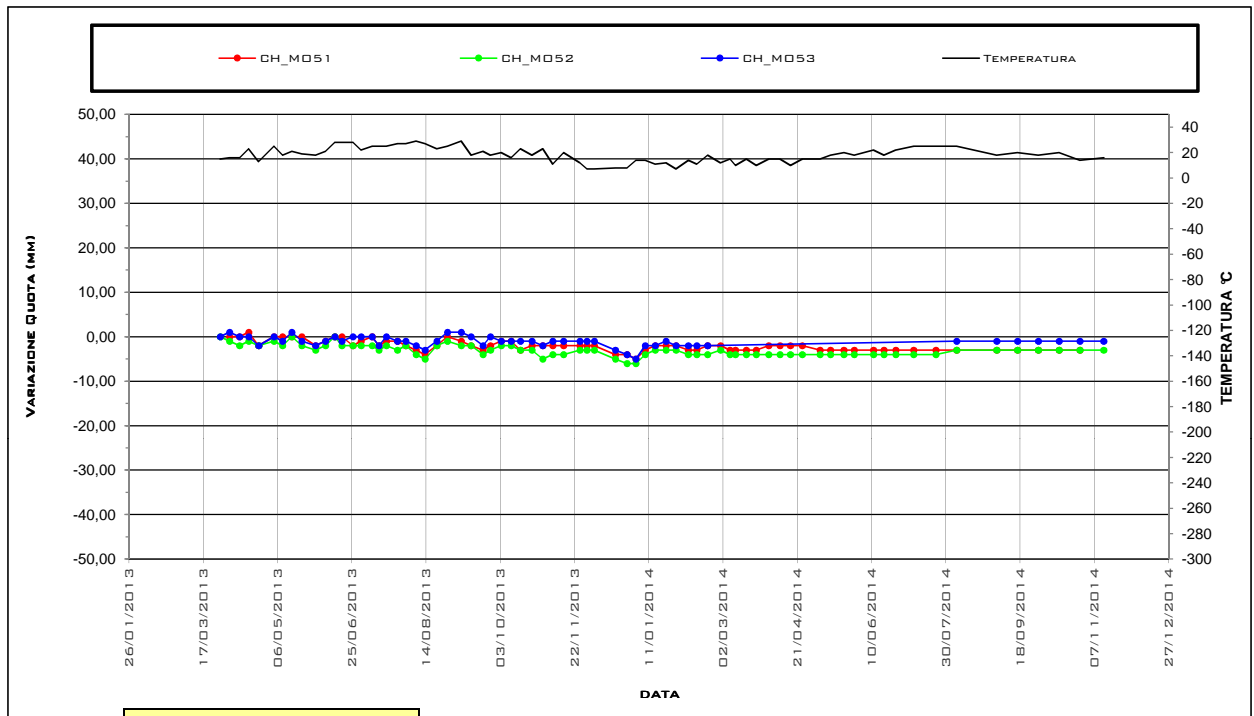
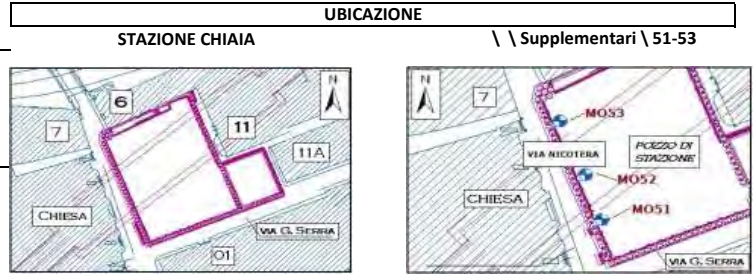
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1	28/03/2013 11.00						15,0	21,9	0,0	0,0	0,0	15,0	22,3	0,0	0,0	0,0
2	03/04/2013 17.30	16,0	21,6	0,0	0,0	0,0	16,0	21,9	-1,0	1,0	0,0	16,0	22,3	1,0	0,0	-1,0
3	10/04/2013 10.30	16,0	21,6	0,0	1,0	0,0	16,0	21,9	-2,0	1,0	1,0	16,0	22,3	0,0	-1,0	0,0
4	16/04/2013 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
33	31/10/2013 14.30	23,0	21,6	-2,0	0,0	2,0	23,0	21,9	-5,0	1,0	1,0	23,0	22,3	-2,0	-1,0	1,0
34	07/11/2013 08.30	11,0	21,6	-2,0	0,0	1,0	11,0	21,9	-4,0	1,0	1,0	11,0	22,3	-1,0	0,0	0,0
35	14/11/2013 14.30	20,0	21,6	-2,0	0,0	2,0	20,0	21,9	-4,0	1,0	1,0	20,0	22,3	-1,0	-1,0	0,0
36	25/11/2013 15.30	12,0	21,6	-2,0	1,0	1,0	12,0	21,9	-3,0	3,0	2,0	12,0	22,3	-1,0	0,0	0,0
37	30/11/2013 08.30	7,0	21,6	-2,0	2,0	2,0	7,0	21,9	-3,0	3,0	2,0	7,0	22,3	-1,0	1,0	0,0
38	05/12/2013 08.30	7,0	21,6	-2,0	0,0	0,0	7,0	21,9	-3,0	2,0	1,0	7,0	22,3	-1,0	0,0	0,0
39	19/12/2013 13.00	8,0	21,6	-4,0	0,0	0,0	8,0	21,9	-5,0	1,0	2,0	8,0	22,3	-3,0	-2,0	1,0
40	27/12/2013 09.00	8,0	21,6	-4,0	-1,0	2,0	8,0	21,9	-6,0	0,0	3,0	8,0	22,3	-4,0	-2,0	3,0
41	02/01/2014 07.30	14,0	21,6	-5,0	0,0	1,0	14,0	21,9	-6,0	-1,0	2,0	14,0	22,3	-5,0	-3,0	3,0
42	08/01/2014 14.30	14,0	21,6	-3,0	0,0	2,0	14,0	21,9	-4,0	1,0	4,0	14,0	22,3	-2,0	-2,0	2,0
43	15/01/2014 08.30	11,0	21,6	-2,0	0,0	0,0	11,0	21,9	-3,0	1,0	0,0	11,0	22,3	-2,0	-1,0	0,0
44	22/01/2014 14.30	12,0	21,6	-2,0	0,0	0,0	12,0	21,9	-3,0	0,0	1,0	12,0	22,3	-1,0	-1,0	0,0
45	29/01/2014 08.30	7,0	21,6	-2,0	0,0	0,0	7,0	21,9	-3,0	1,0	1,0	7,0	22,3	-2,0	0,0	1,0
46	06/02/2014 14.30	14,0	21,6	-3,0	-1,0	2,0	14,0	21,9	-4,0	0,0	2,0	14,0	22,3	-2,0	-3,0	1,0
47	12/02/2014 08.30	11,0	21,6	-3,0	2,0	3,0	11,0	21,9	-4,0	3,0	4,0	11,0	22,3	-2,0	-1,0	2,0
48	19/02/2014 14.30	18,0	21,6	-2,0	0,0	2,0	18,0	21,9	-4,0	2,0	3,0	18,0	22,3	-2,0	-1,0	1,0
49	28/02/2014 08.30	12,0	21,6	-2,0	2,0	3,0	12,0	21,9	-3,0	2,0	4,0					
50	06/03/2014 16.30	15,0	21,6	-3,0	1,0	3,0	15,0	21,9	-4,0	1,0	4,0					
51	10/03/2014 08.30	10,0	21,6	-3,0	0,0	3,0	10,0	21,9	-4,0	2,0	5,0					
52	17/03/2014 15.30	15,0	21,6	-3,0	2,0	2,0	15,0	21,9	-4,0	2,0	3,0					
53	24/03/2014 08.30	10,0	21,6	-3,0	-1,0	3,0	10,0	21,9	-4,0	1,0	3,0					
54	01/04/2014 18.30	15,0	21,6	-2,0	-1,0	5,0	15,0	21,9	-4,0	-1,0	5,0					
55	09/04/2014 08.30	15,0	21,6	-2,0	0,0	2,0	15,0	21,9	-4,0	2,0	3,0					
56	16/04/2014 08.30	10,0	21,6	-2,0	-1,0	5,0	10,0	21,9	-4,0	0,0	5,0					
57	24/04/2014 08.30	15,0	21,6	-2,0	-1,0	5,0	15,0	21,9	-4,0	0,0	5,0					
58	06/05/2014 08.30	15,0	21,6	-3,0	1,0	2,0	15,0	21,9	-4,0	1,0	3,0					
59	13/05/2014 08.30	18,0	21,6	-3,0	2,0	3,0	18,0	21,9	-4,0	2,0	3,0					
60	22/05/2014 08.30	20,0	21,6	-3,0	0,0	2,0	20,0	21,9	-4,0	0,0	3,0					
61	29/05/2014 08.30	18,0	21,6	-3,0	0,0	3,0	18,0	21,9	-4,0	0,0	2,0					
62	11/06/2014 08.30	22,0	21,6	-3,0	0,0	3,0	22,0	21,9	-4,0	1,0	4,0					
63	18/06/2014 08.30	18,0	21,6	-3,0	0,0	2,0	18,0	21,9	-4,0	1,0	5,0					
64	26/06/2014 08.30	22,0	21,6	-3,0	0,0	2,0	22,0	21,9	-4,0	2,0	4,0					
65	08/07/2014 08.30	25,0	21,6	-3,0	0,0	3,0	25,0	21,9	-4,0	2,0	4,0					
66	23/07/2014 08.30	25,0	21,6	-3,0	0,0	1,0	25,0	21,9	-4,0	2,0	2,0					
67	06/08/2014 08.30	25,0	21,6	-3,0	-1,0	5,0	25,0	21,9	-3,0	1,0	4,0	25,0	22,3	-1,0	-2,0	2,0
68	02/09/2014 08.30	18,0	21,6	-3,0	-2,0	3,0	18,0	21,9	-3,0	1,0	5,0	18,0	22,3	-1,0	0,0	3,0
69	16/09/2014 08.30	20,0	21,6	-3,0	-2,0	1,0	20,0	21,9	-3,0	0,0	3,0	20,0	22,3	-1,0	-1,0	2,0
70	30/09/2014 08.30	18,0	21,6	-3,0	-1,0	3,0	18,0	21,9	-3,0	-1,0	4,0	18,0	22,3	-1,0	-2,0	3,0
71	14/10/2014 08.30	20,0	21,6	-3,0	2,0	5,0	20,0	21,9	-3,0	2,0	4,0	20,0	22,3	-1,0	-2,0	2,0
72	28/10/2014 08.30	14,0	21,6	-3,0	-2,0	3,0	14,0	21,9	-3,0	-1,0	4,0	14,0	22,3	-1,0	-4,0	2,0
73	13/11/2014 08.30						16,0	21,9	-3,0	1,0	4,0	16,0	22,3	-1,0	-3,0	2,0



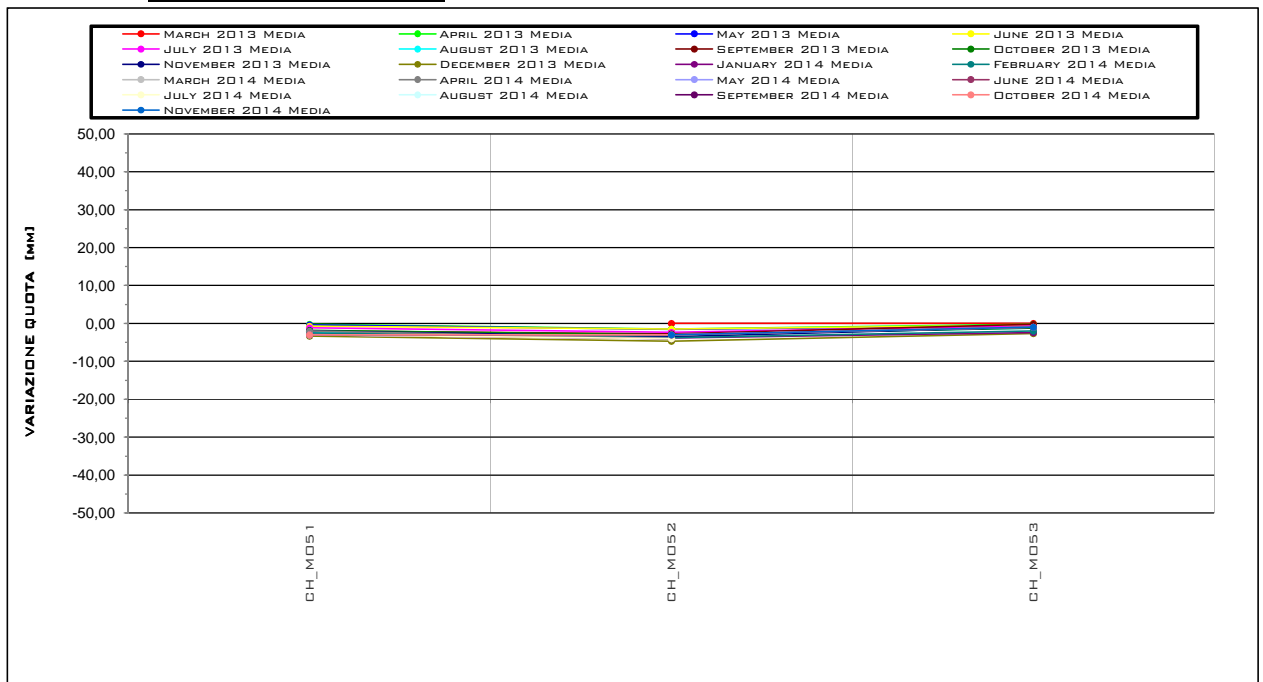


Ubicazione STAZIONE CHIAIA  
Opera \ \ Supplementari \ 51-53  
Tipo Strumento Mire Ottiche  
Data posa in opera 03/04/2013  
Data lettura di zero 03/04/2013

**GRAFICO QUOTA**

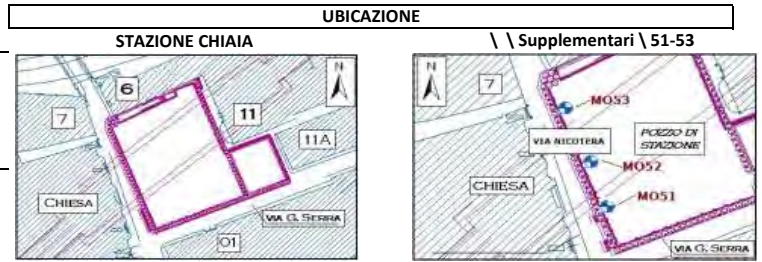


**GRAFICO ISOCRONE**

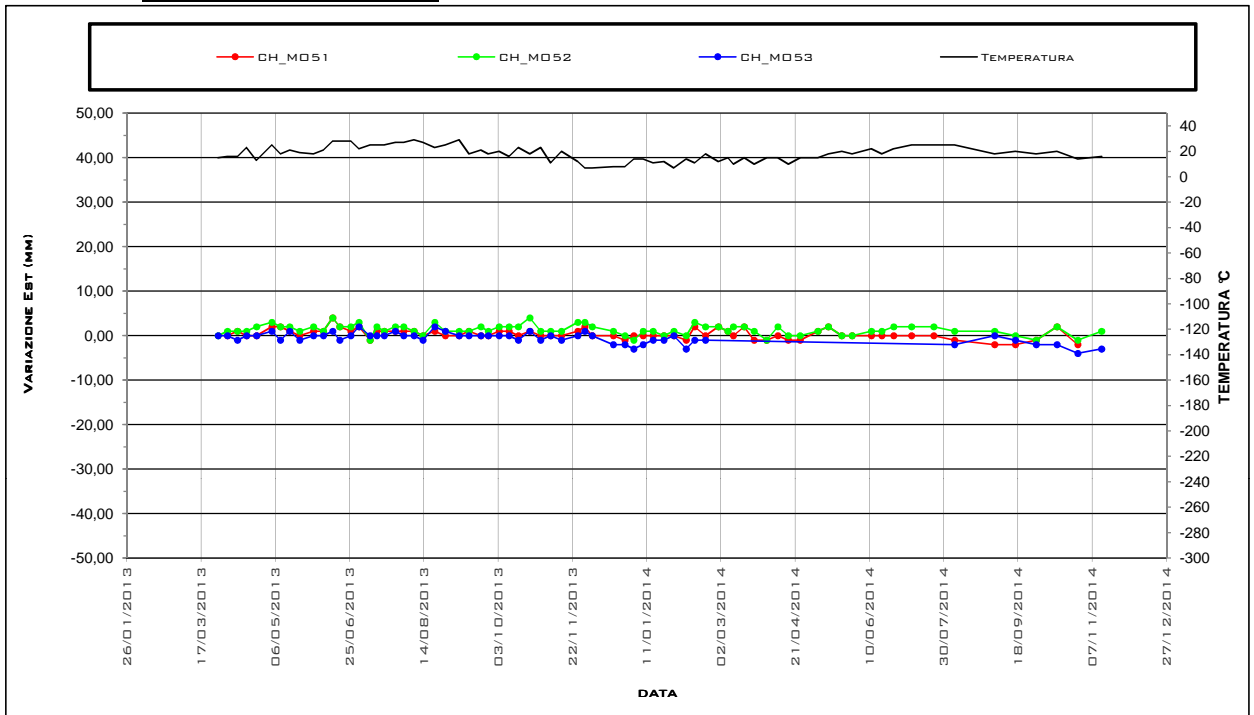




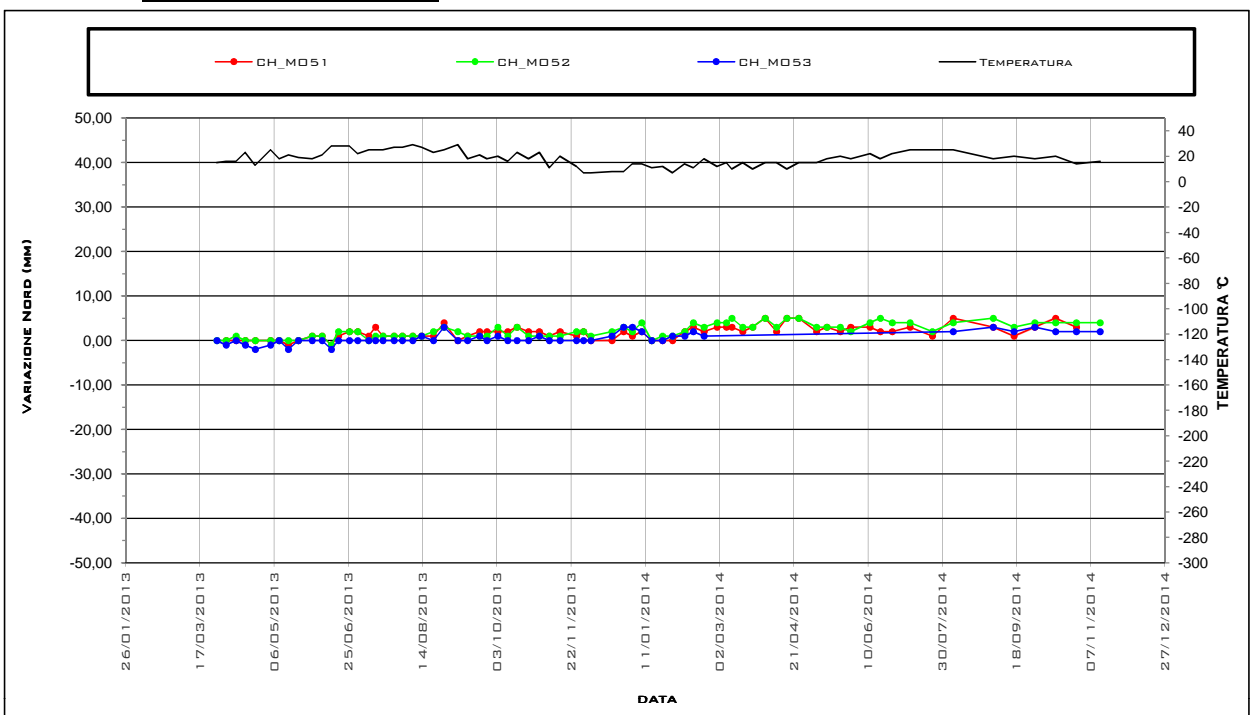
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 51-53  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 03/04/2013  
**Data lettura di zero** 03/04/2013



**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**

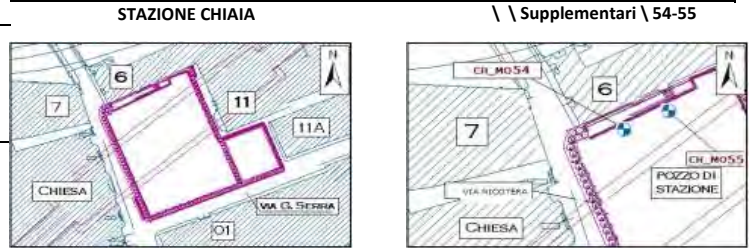
**Ultima** 73 **in** data 13/11/2014  
**Misura**

Lett. n°	DATA	CH_M054					CH_M055				
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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	0,0	-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
33	31/10/2013 14.30	23,0	14,4	-2,0	-5,0	0,0	23,0	14,5	3,0	4,0	0,0
34	07/11/2013 08.30	11,0	14,4	-2,0	-4,0	-1,0	11,0	14,5	3,0	5,0	2,0
35	14/11/2013 14.30	20,0	14,4	-2,0	-5,0	-1,0	20,0	14,5	2,0	4,0	1,0
36	25/11/2013 15.30	12,0	14,4	-1,0	-3,0	-2,0	12,0	14,5	2,0	5,0	2,0
37	30/11/2013 08.30	7,0	14,4	-1,0	-3,0	0,0	7,0	14,5	3,0	4,0	0,0
38	05/12/2013 08.30	7,0	14,4	-1,0	-4,0	0,0	7,0	14,5	3,0	5,0	1,0
39	19/12/2013 13.00	8,0	14,4	-3,0	-5,0	1,0	8,0	14,5	3,0	5,0	0,0
40	27/12/2013 09.00	8,0	14,4	-4,0	-6,0	3,0	8,0	14,5	3,0	3,0	1,0
41	02/01/2014 07.30	14,0	14,4	-5,0	-7,0	3,0	14,0	14,5	3,0	3,0	1,0
42	08/01/2014 14.30	14,0	14,4	-1,0	-6,0	1,0	14,0	14,5	2,0	6,0	1,0
43	15/01/2014 08.30	11,0	14,4	-1,0	-6,0	0,0	11,0	14,5	2,0	4,0	0,0
44	22/01/2014 14.30	12,0	14,4	0,0	-5,0	0,0	12,0	14,5	3,0	6,0	1,0
45	29/01/2014 08.30	7,0	14,4	-1,0	-5,0	1,0	7,0	14,5	1,0	3,0	2,0
46	06/02/2014 14.30	14,0	14,4	-2,0	-7,0	1,0	14,0	14,5	1,0	5,0	1,0
47	12/02/2014 08.30	11,0	14,4	-1,0	-6,0	1,0	11,0	14,5	1,0	6,0	3,0
48	19/02/2014 14.30	18,0	14,4	-1,0	-5,0	0,0	18,0	14,5	1,0	5,0	1,0
49	28/02/2014 08.30	12,0	14,4	-1,0	-6,0	2,0	12,0	14,5	2,0	3,0	0,0
50	06/03/2014 16.30	15,0	14,4	-1,0	-6,0	2,0	15,0	14,5	3,0	6,0	2,0
51	10/03/2014 08.30	10,0	14,4	-1,0	-6,0	1,0	10,0	14,5	3,0	5,0	0,0
52	17/03/2014 15.30	15,0	14,4	-1,0	-7,0	0,0	15,0	14,5	3,0	4,0	1,0
53	24/03/2014 08.30	10,0	14,4	0,0	-6,0	1,0	10,0	14,5	2,0	6,0	1,0
54	01/04/2014 18.30	15,0	14,4	0,0	-7,0	3,0	15,0	14,5	3,0	4,0	0,0
55	09/04/2014 08.30	15,0	14,4	0,0	-7,0	2,0	15,0	14,5	3,0	5,0	-1,0
56	16/04/2014 08.30	10,0	14,4	0,0	-7,0	1,0	10,0	14,5	3,0	5,0	0,0
57	24/04/2014 08.30	15,0	14,4	0,0	-7,0	1,0	15,0	14,5	3,0	4,0	0,0
58	06/05/2014 08.30	15,0	14,4	-1,0	-6,0	-1,0	15,0	14,5	3,0	4,0	0,0
59	13/05/2014 08.30	18,0	14,4	-1,0	-7,0	0,0	18,0	14,5	3,0	6,0	-1,0
60	22/05/2014 08.30	20,0	14,4	0,0	-6,0	0,0	20,0	14,5	3,0	5,0	0,0
61	29/05/2014 08.30	18,0	14,4	0,0	-8,0	0,0	18,0	14,5	3,0	5,0	-2,0
62	11/06/2014 08.30	22,0	14,4	0,0	-7,0	0,0	22,0	14,5	3,0	4,0	-3,0
63	18/06/2014 08.30	18,0	14,4	0,0	-5,0	0,0	18,0	14,5	3,0	4,0	-1,0
64	26/06/2014 08.30	22,0	14,4	0,0	-7,0	-1,0	22,0	14,5	3,0	6,0	-1,0
65	08/07/2014 08.30	25,0	14,4	1,0	-4,0	-1,0	25,0	14,5	3,0	5,0	-3,0
66	23/07/2014 08.30	25,0	14,4	1,0	-5,0	-2,0	25,0	14,5	2,0	4,0	-2,0
67	06/08/2014 08.30	25,0	14,4	1,0	-8,0	0,0	25,0	14,5	2,0	2,0	-1,0
68	02/09/2014 08.30	18,0	14,4	1,0	-6,0	0,0	18,0	14,5	2,0	3,0	-3,0
69	16/09/2014 08.30	20,0	14,4	0,0	-7,0	-1,0	20,0	14,5	3,0	5,0	-3,0
70	30/09/2014 08.30	18,0	14,4	0,0	-8,0	0,0	18,0	14,5	3,0	6,0	-2,0
71	14/10/2014 08.30	20,0	14,4	0,0	-9,0	0,0	20,0	14,5	3,0	6,0	-3,0
72	28/10/2014 08.30	14,0	14,4	0,0	-9,0	0,0	14,0	14,5	3,0	7,0	-1,0
73	13/11/2014 08.30	16,0	14,4	0,0	-8,0	-1,0	16,0	14,5	3,0	6,0	-2,0

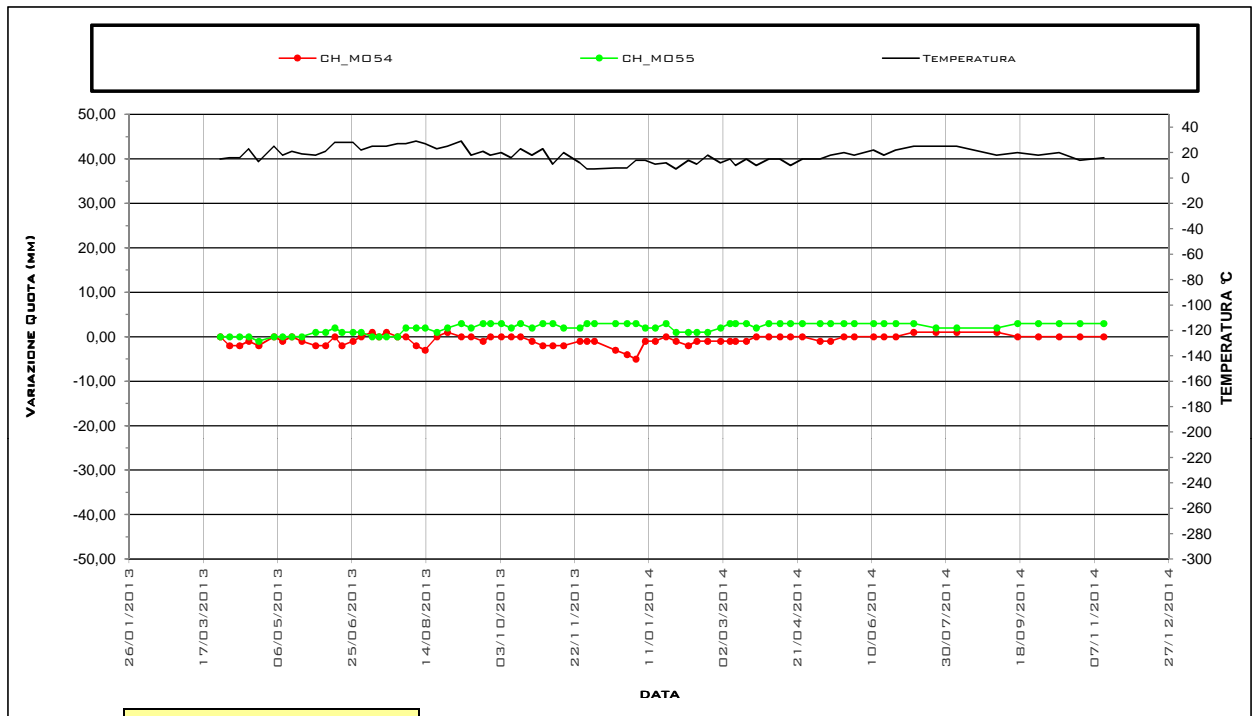


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 54-55  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 28/03/2013  
**Data lettura di zero** 28/03/2013

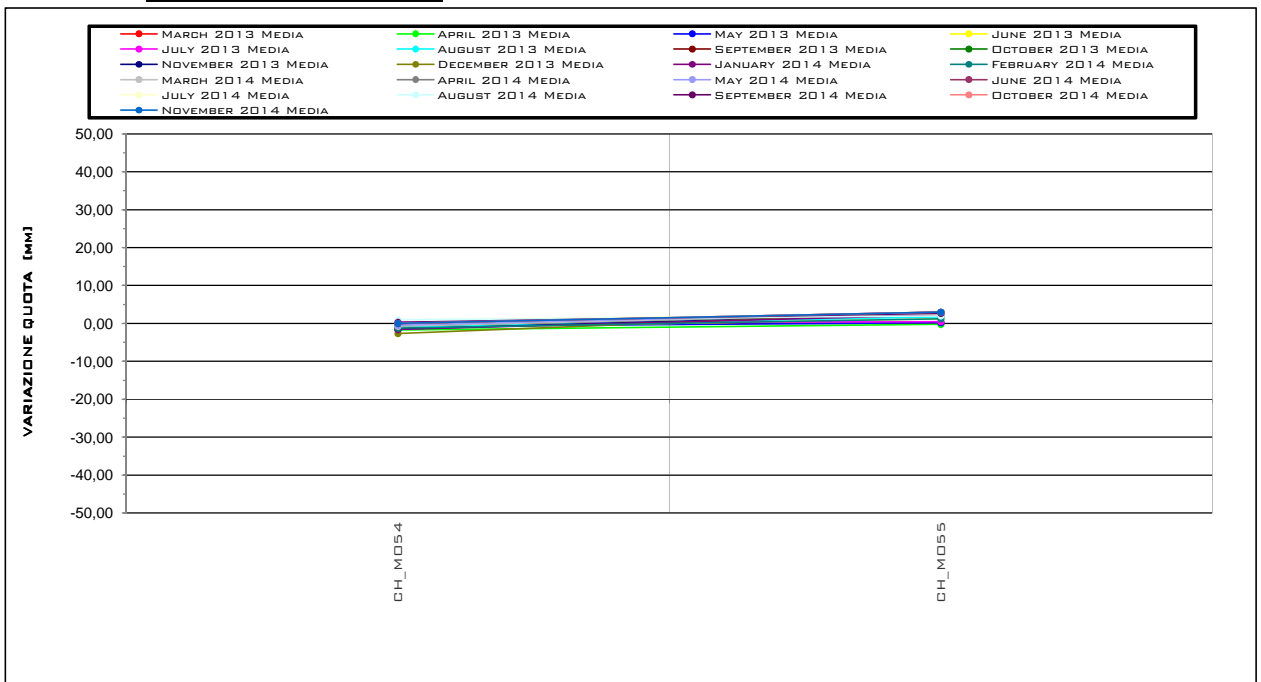
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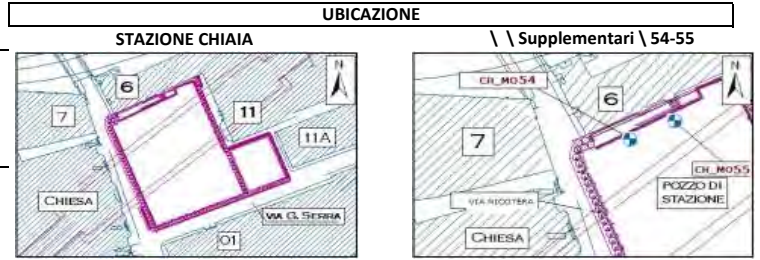


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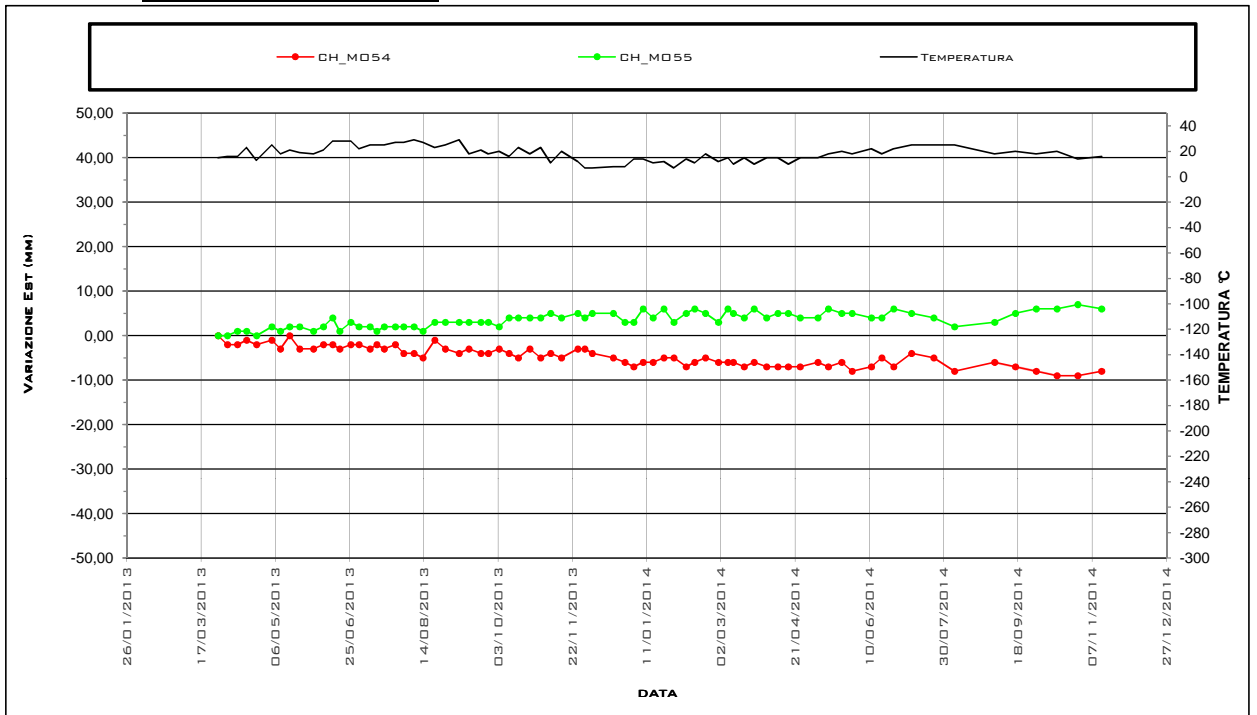




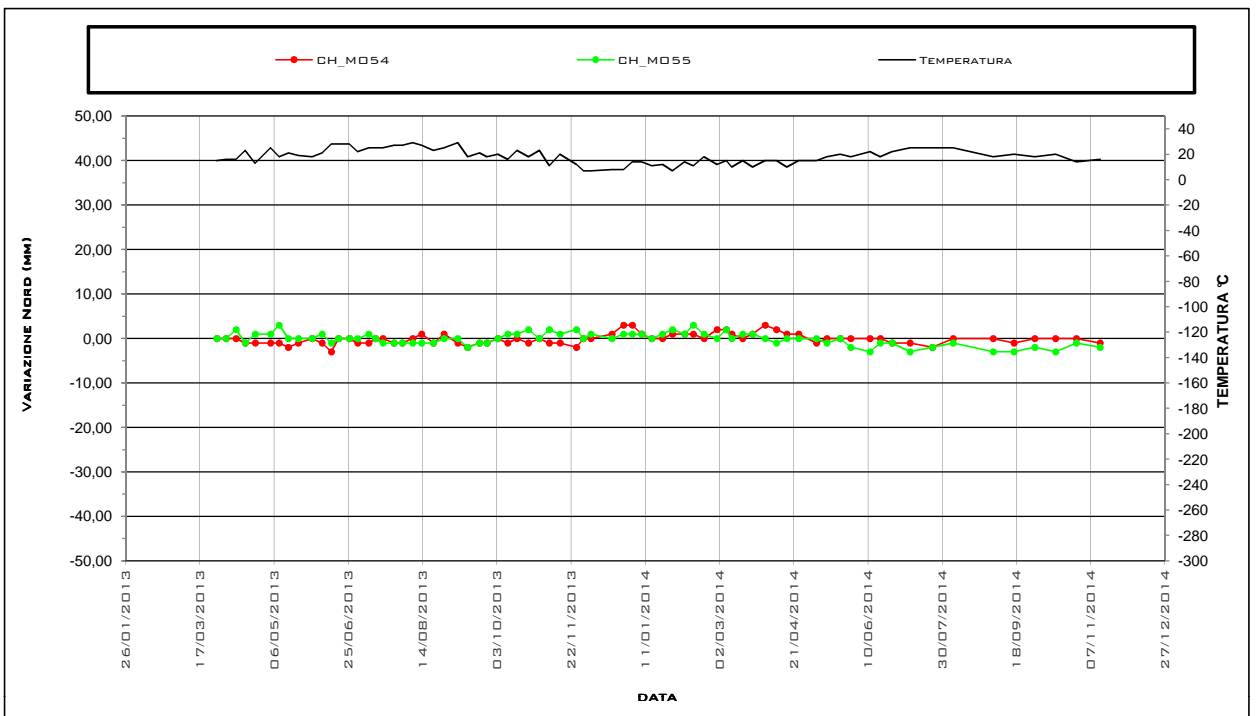
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 54-55  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 28/03/2013  
**Data lettura di zero** 28/03/2013



**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

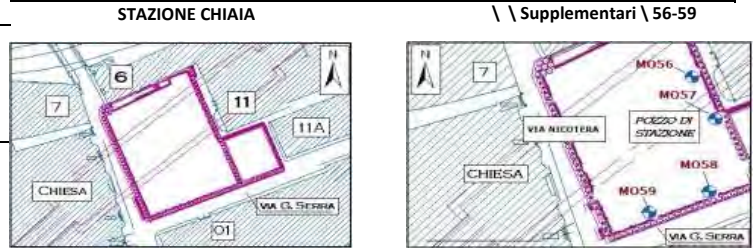
Ultima Misura 73 in data 13/11/2014

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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	-2,0	1,0
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
33	31/10/2013 14.30	23,0	9,4	-3,0	3,0	1,0	23,0	9,6	-1,0	2,0	2,0	23,0	11,3	1,0	7,0	4,0	23,0	11,3	-1,0	-2,0	3,0
34	07/11/2013 08.30	11,0	9,4	-3,0	3,0	1,0	11,0	9,6	-2,0	4,0	2,0	11,0	11,3	1,0	6,0	4,0	11,0	11,3	0,0	-1,0	1,0
35	14/11/2013 14.30	20,0	9,4	-3,0	2,0	1,0	20,0	9,6	-1,0	3,0	3,0	20,0	11,3	1,0	7,0	3,0	20,0	11,3	0,0	-1,0	2,0
36	25/11/2013 12.30	12,0	9,4	-2,0	3,0	1,0	12,0	9,6	0,0	3,0	4,0	12,0	11,3	1,0	8,0	4,0	12,0	11,3	0,0	0,0	1,0
37	30/11/2013 08.30	7,0	9,4	-3,0	3,0	1,0	7,0	9,6	-1,0	4,0	4,0	7,0	11,3	2,0	8,0	4,0	7,0	11,3	0,0	1,0	2,0
38	05/12/2013 08.30	7,0	9,4	-3,0	3,0	1,0	7,0	9,6	0,0	3,0	2,0	7,0	11,3	2,0	6,0	3,0	7,0	11,3	0,0	-1,0	2,0
39	19/12/2013 13.00	8,0	9,4	-4,0	3,0	0,0	8,0	9,6	-2,0	3,0	1,0	8,0	11,3	0,0	5,0	1,0	8,0	11,3	-2,0	-2,0	0,0
40	27/12/2013 09.00	8,0	9,4	-4,0	1,0	1,0	8,0	9,6	-1,0	2,0	2,0	8,0	11,3	-1,0	6,0	1,0	8,0	11,3	-2,0	-1,0	0,0
41	02/01/2014 07.30	14,0	9,4	-5,0	1,0	3,0	14,0	9,6	-1,0	2,0	3,0	14,0	11,3	0,0	5,0	1,0	14,0	11,3	-2,0	-1,0	0,0
42	08/01/2014 14.30	14,0	9,4	-2,0	5,0	2,0	14,0	9,6	0,0	5,0	2,0	14,0	11,3	2,0	8,0	3,0	14,0	11,3	0,0	-2,0	3,0
43	15/01/2014 08.30	11,0	9,4	-2,0	5,0	2,0	11,0	9,6	0,0	6,0	3,0	11,0	11,3	2,0	9,0	2,0	11,0	11,3	0,0	-2,0	1,0
44	22/01/2014 14.30	12,0	9,4	-2,0	5,0	2,0	12,0	9,6	0,0	5,0	2,0	12,0	11,3	3,0	7,0	2,0	12,0	11,3	1,0	-2,0	2,0
45	29/01/2014 08.30	7,0	9,4	-2,0	2,0	1,0	7,0	9,6	0,0	2,0	3,0	7,0	11,3	1,0	7,0	3,0	7,0	11,3	0,0	-1,0	0,0
46	06/02/2014 14.30	14,0	9,4	-1,0	4,0	0,0	14,0	9,6	0,0	3,0	2,0	14,0	11,3	1,0	8,0	1,0	14,0	11,3	0,0	-3,0	3,0
47	12/02/2014 08.30	11,0	9,4	-1,0	3,0	0,0	11,0	9,6	0,0	4,0	2,0	11,0	11,3	3,0	6,0	3,0	11,0	11,3	0,0	0,0	5,0
48	19/02/2014 14.30	18,0	9,4	-2,0	3,0	0,0	18,0	9,6	-1,0	5,0	1,0	18,0	11,3	1,0	8,0	3,0	18,0	11,3	0,0	-2,0	2,0
49	28/02/2014 08.30	12,0	9,4	-2,0	3,0	-2,0	12,0	9,6	0,0	1,0	0,0	12,0	11,3	1,0	1,0	3,0	12,0	11,3	0,0	-2,0	4,0
50	06/03/2014 16.30	15,0	9,4	-2,0	4,0	0,0	15,0	9,6	0,0	4,0	1,0	15,0	11,3	2,0	6,0	3,0	15,0	11,3	0,0	-1,0	5,0
51	10/03/2014 08.30	10,0	9,4	-2,0	5,0	0,0	10,0	9,6	0,0	4,0	1,0	10,0	11,3	2,0	8,0	2,0	10,0	11,3	0,0	-2,0	4,0
52	17/03/2014 15.30	15,0	9,4	-2,0	4,0	-2,0	15,0	9,6	0,0	3,0	0,0	15,0	11,3	2,0	4,0	2,0	15,0	11,3	-1,0	-1,0	4,0
53	24/03/2014 08.30	10,0	9,4	-2,0	4,0	0,0	10,0	9,6	0,0	3,0	1,0	10,0	11,3	2,0	7,0	3,0	10,0	11,3	-1,0	-3,0	4,0
54	01/04/2014 18.30	15,0	9,4	-2,0	3,0	-2,0	15,0	9,6	0,0	3,0	1,0	15,0	11,3	2,0	6,0	3,0	15,0	11,3	0,0	-3,0	8,0
55	09/04/2014 08.30	15,0	9,4	-3,0	4,0	-1,0	15,0	9,6	-1,0	3,0	1,0	15,0	11,3	1,0	5,0	3,0	15,0	11,3	0,0	-3,0	5,0
56	16/04/2014 08.30	10,0	9,4	-3,0	3,0	1,0	10,0	9,6	-1,0	5,0	4,0	10,0	11,3	1,0	9,0	5,0	10,0	11,3	0,0	-5,0	6,0
57	24/04/2014 08.30	15,0	9,4	-3,0	3,0	0,0	15,0	9,6	-1,0	3,0	1,0	15,0	11,3	0,0	5,0	4,0	15,0	11,3	0,0	-4,0	6,0
58	06/05/2014 08.30	15,0																			

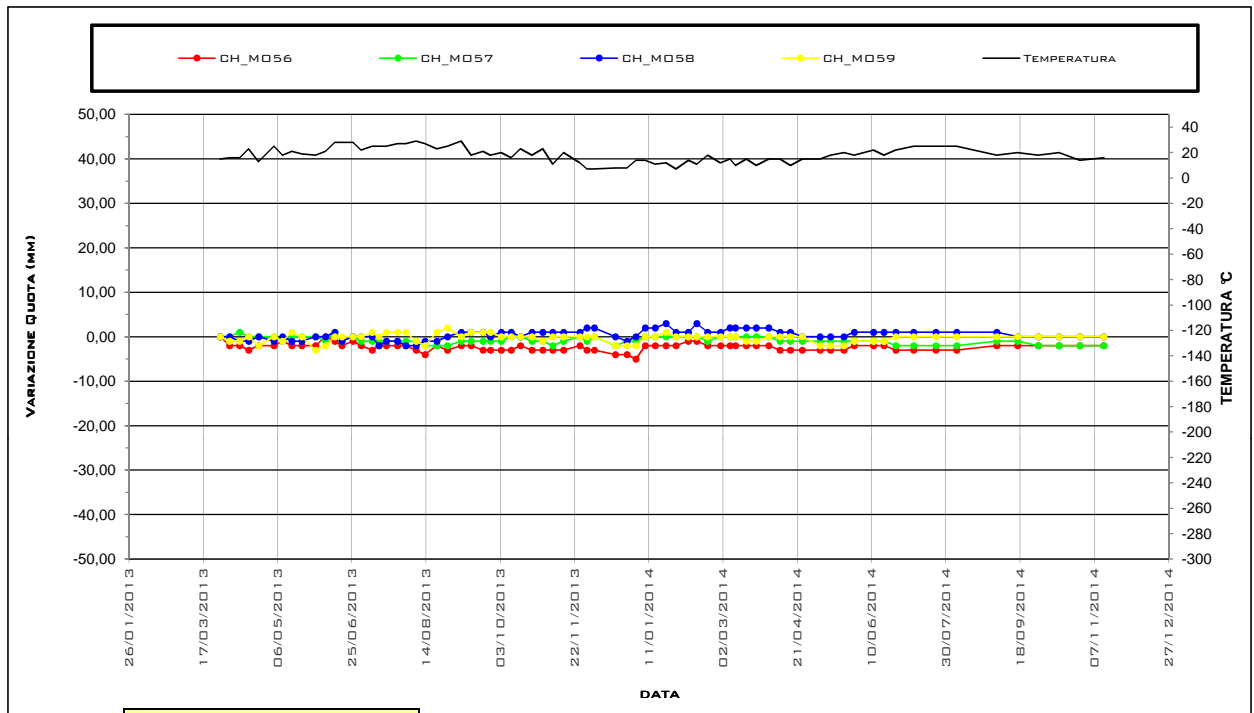


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 56-59  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 28/03/2013  
**Data lettura di zero** 28/03/2013

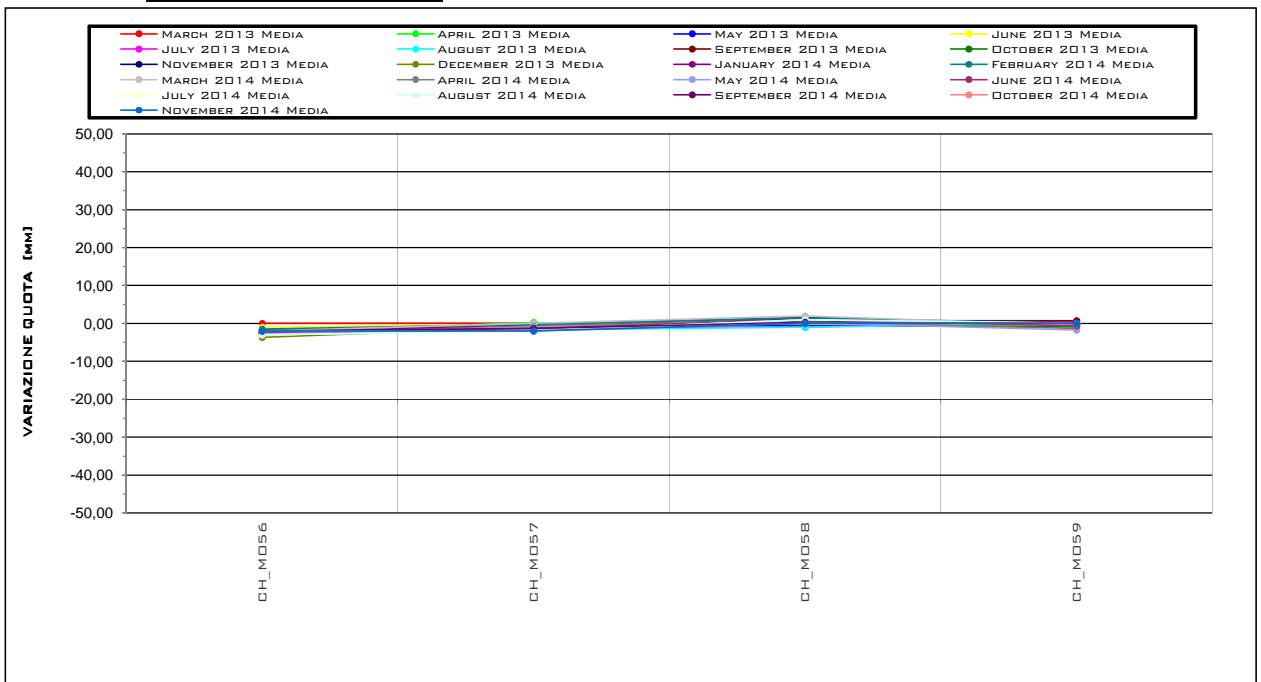
**UBICAZIONE**



**GRAFICO QUOTA**

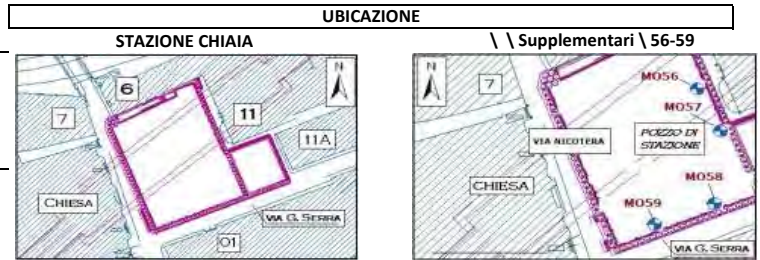


**GRAFICO ISOCRONE**

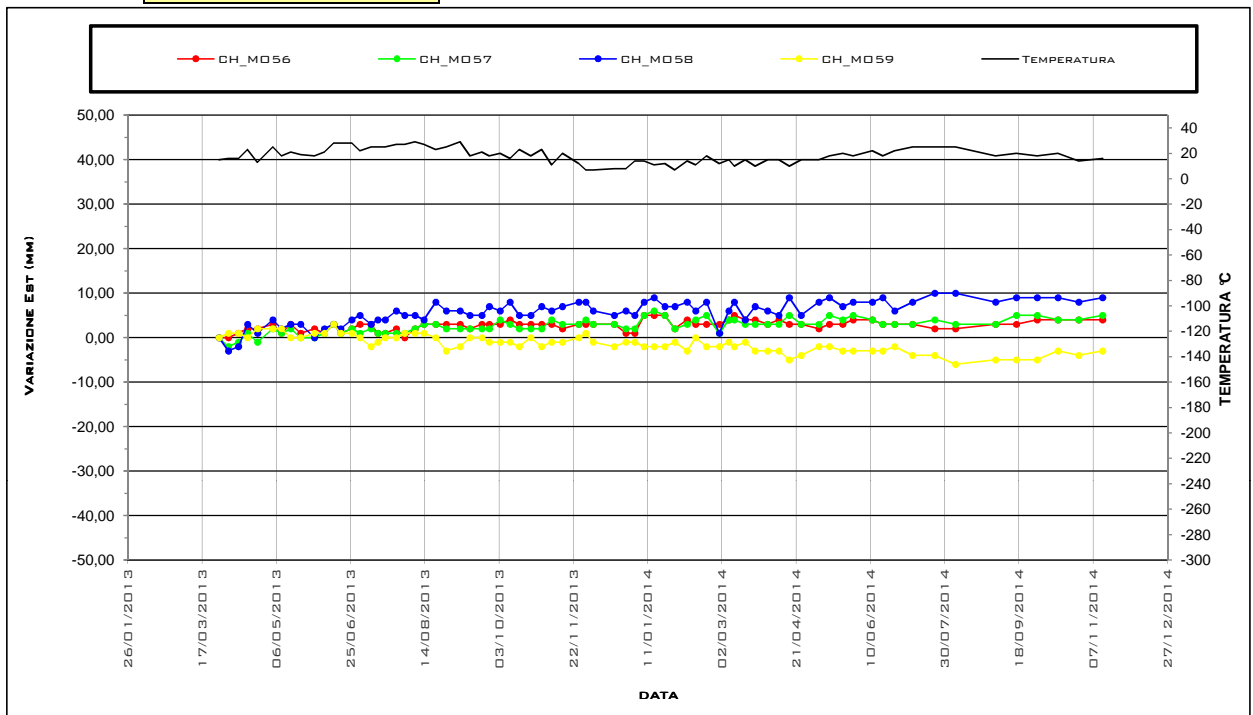




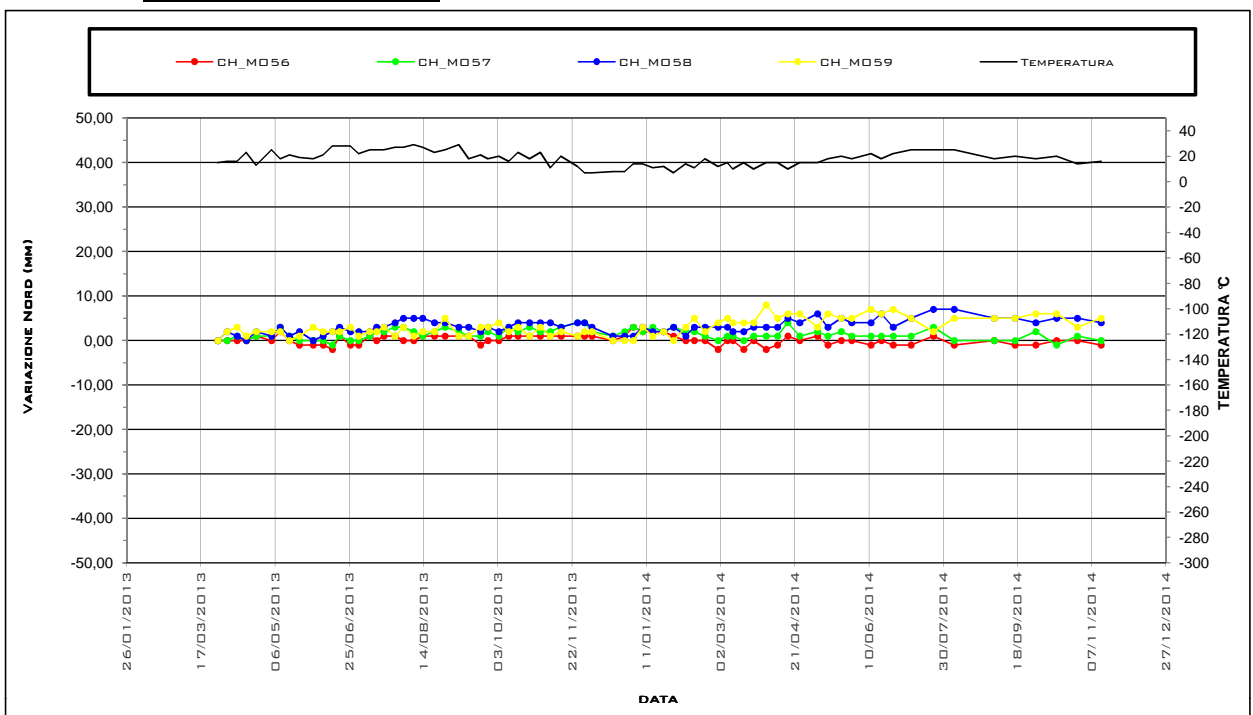
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 56-59  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 28/03/2013  
**Data lettura di zero** 28/03/2013



**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**

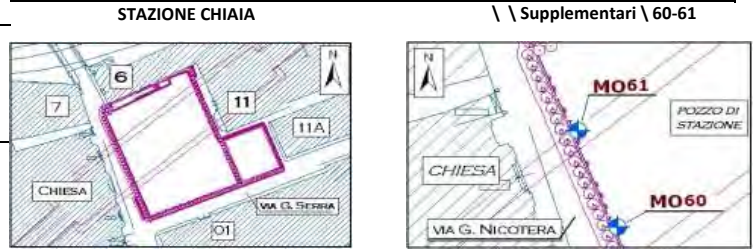
**Ultima** 73 **in** **13/11/2014**  
**Misura** **data**

Lett. 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
33	31/10/2013 14.30	23,0	14,3	-5,0	-1,0	2,0	23,0	14,5	-3,0	-2,0	2,0
34	07/11/2013 08.30	11,0	14,3	-5,0	-1,0	0,0	11,0	14,5	-2,0	-1,0	0,0
35	14/11/2013 14.30	20,0	14,3	-3,0	-1,0	2,0	20,0	14,5	-1,0	-1,0	1,0
36	25/11/2013 15.30	12,0	14,3	-3,0	1,0	1,0	12,0	14,5	-1,0	-1,0	0,0
37	30/11/2013 08.30	7,0	14,3	-3,0	1,0	2,0	7,0	14,5	-1,0	1,0	1,0
38	05/12/2013 08.30	7,0	14,3	-3,0	-1,0	1,0	7,0	14,5	-1,0	-2,0	1,0
39	19/12/2013 13.00	8,0	14,3	-5,0	-2,0	2,0	8,0	14,5	-3,0	-3,0	2,0
40	27/12/2013 09.00	8,0	14,3	-6,0	-3,0	3,0	8,0	14,5	-4,0	-4,0	4,0
41	02/01/2014 07.30	14,0	14,3	-7,0	-2,0	2,0	14,0	14,5	-5,0	-4,0	3,0
42	08/01/2014 14.30	14,0	14,3	-5,0	-2,0	2,0	14,0	14,5	-3,0	-3,0	2,0
43	15/01/2014 08.30	11,0	14,3	-4,0	-2,0	1,0	11,0	14,5	-3,0	-3,0	1,0
44	22/01/2014 14.30	12,0	14,3	-3,0	-2,0	1,0	12,0	14,5	-2,0	-3,0	2,0
45	29/01/2014 08.30	7,0	14,3	-3,0	-1,0	2,0	7,0	14,5	-1,0	-2,0	2,0
46	06/02/2014 14.30	14,0	14,3	-3,0	-2,0	3,0	14,0	14,5	-2,0	-3,0	3,0
47	12/02/2014 08.30	11,0	14,3	-4,0	0,0	4,0	11,0	14,5	-2,0	-1,0	4,0
48	19/02/2014 14.30	18,0	14,3	-4,0	-2,0	2,0	18,0	14,5	-2,0	-3,0	3,0
49	28/02/2014 08.30	12,0	14,3	-4,0	-2,0	4,0					
50	06/03/2014 16.30	15,0	14,3	-4,0	-2,0	4,0					
51	10/03/2014 08.30	10,0	14,3	-4,0	-1,0	3,0					
52	17/03/2014 15.30	15,0	14,3	-5,0	-1,0	3,0					
53	24/03/2014 08.30	10,0	14,3	-4,0	-2,0	3,0					
54	01/04/2014 18.30	15,0	14,3	-4,0	-4,0	4,0					
55	09/04/2014 08.30	15,0	14,3	-4,0	-2,0	3,0					
56	16/04/2014 08.30	10,0	14,3	-4,0	-4,0	5,0					
57	24/04/2014 08.30	15,0	14,3	-4,0	-3,0	4,0					
58	06/05/2014 08.30	15,0	14,3	-6,0	-2,0	1,0					
59	13/05/2014 08.30	18,0	14,3	-6,0	-1,0	3,0					
60	22/05/2014 08.30	20,0	14,3	-6,0	-4,0	3,0					
61	29/05/2014 08.30	18,0	14,3	-5,0	-2,0	3,0					
62	11/06/2014 08.30	22,0	14,3	-5,0	-3,0	4,0					
63	18/06/2014 08.30	18,0	14,3	-5,0	-3,0	3,0					
64	26/06/2014 08.30	22,0	14,3	-5,0	-1,0	2,0					
65	08/07/2014 08.30	25,0	14,3	-5,0	-2,0	3,0					
66	23/07/2014 08.30	25,0	14,3	-5,0	-3,0	2,0					
67	06/08/2014 08.30	25,0	14,3	-5,0	-5,0	1,0	25,0	14,5	-1,0	-3,0	3,0
68	02/09/2014 08.30	18,0	14,3	-5,0	-4,0	3,0	18,0	14,5	-1,0	-3,0	5,0
69	16/09/2014 08.30	20,0	14,3	-5,0	-5,0	1,0	20,0	14,5	-1,0	-4,0	4,0
70	30/09/2014 08.30	18,0	14,3	-5,0	-5,0	3,0	18,0	14,5	-1,0	-4,0	5,0
71	14/10/2014 08.30	20,0	14,3	-5,0	-3,0	4,0	20,0	14,5	-1,0	-4,0	4,0
72	28/10/2014 08.30	14,0	14,3	-5,0	-5,0	1,0	14,0	14,5	-1,0	-5,0	3,0
73	13/11/2014 08.30	16,0	14,3	-5,0	-3,0	1,0	16,0	14,5	-1,0	-2,0	3,0

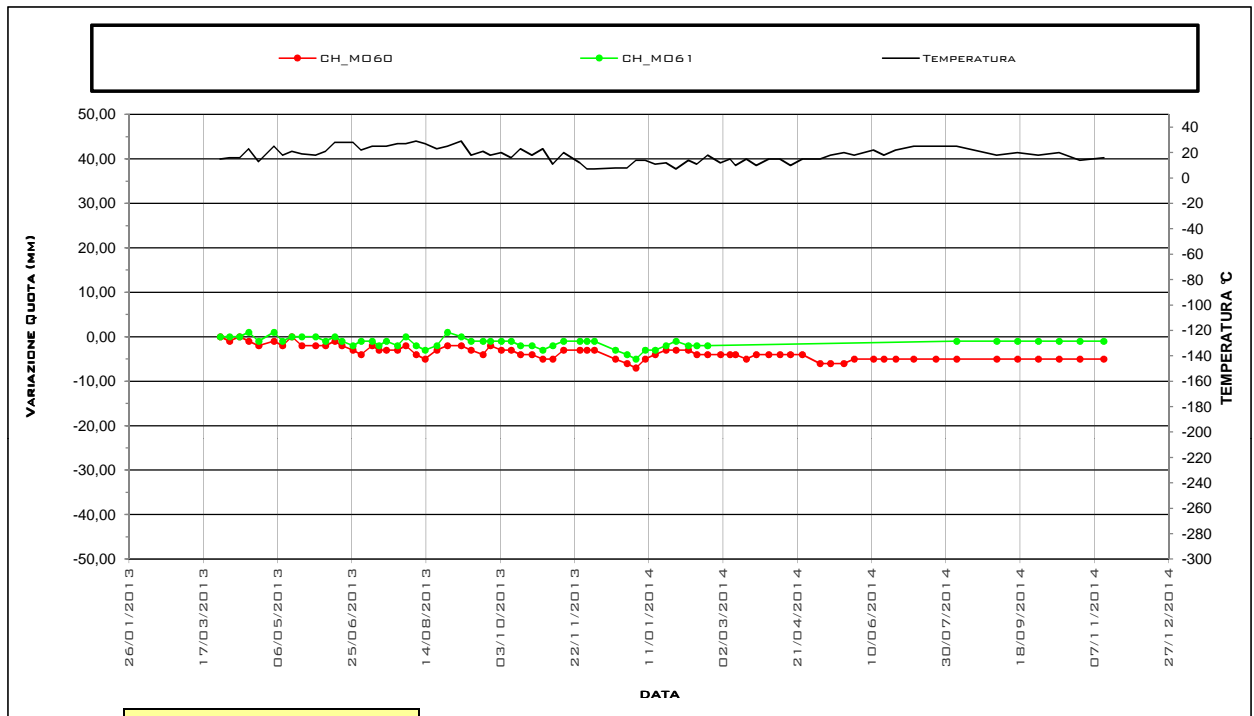


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 60-61  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 28/03/2013  
**Data lettura di zero** 28/03/2013

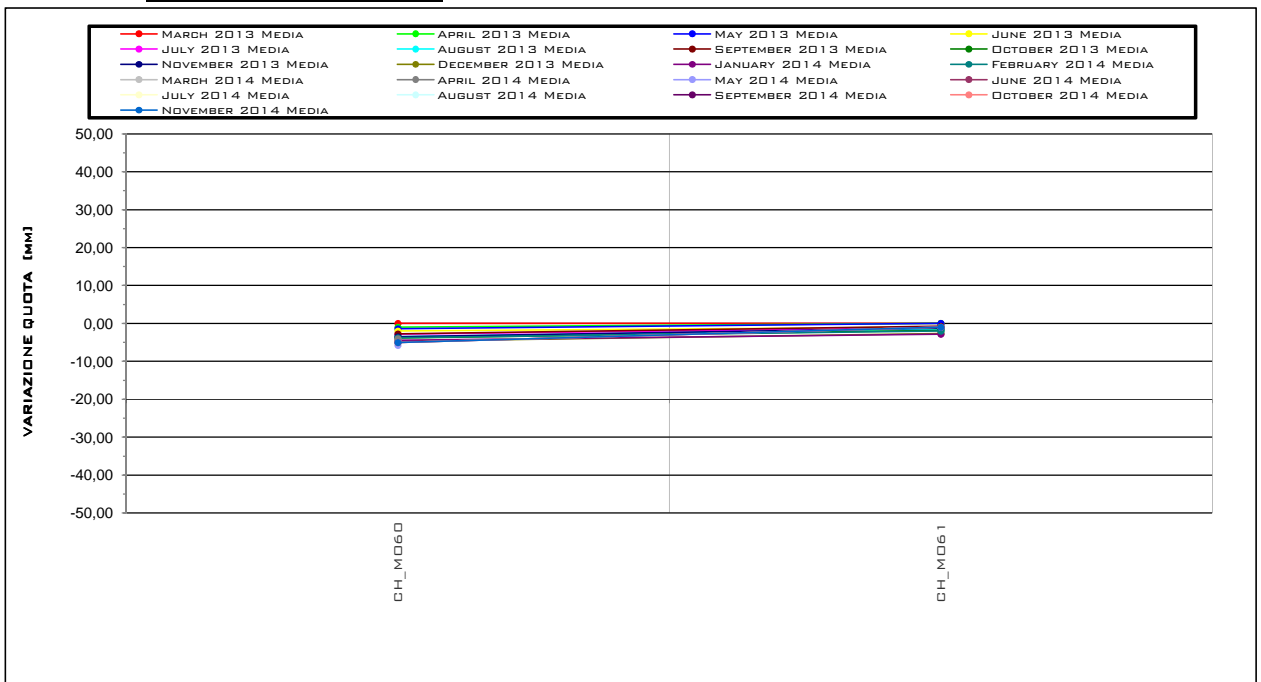
**UBICAZIONE**



**GRAFICO QUOTA**

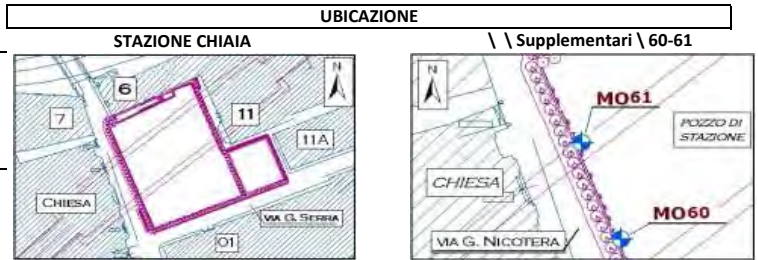


**GRAFICO ISOCRONE**

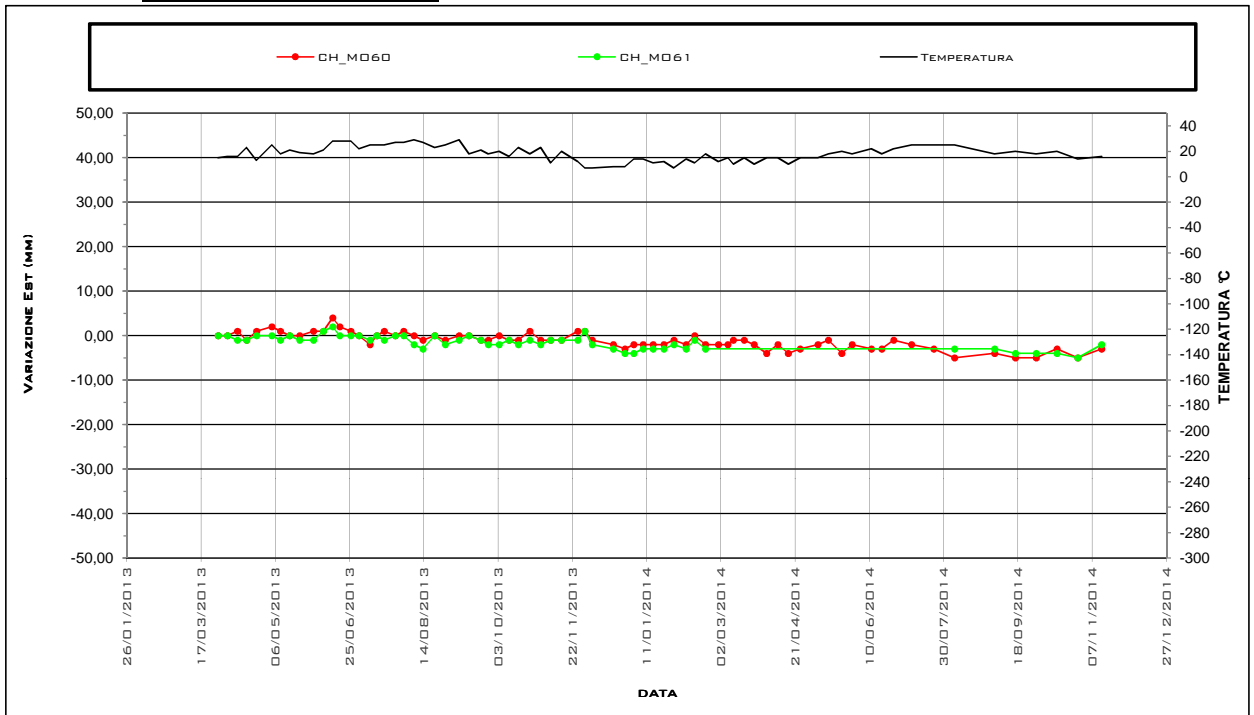




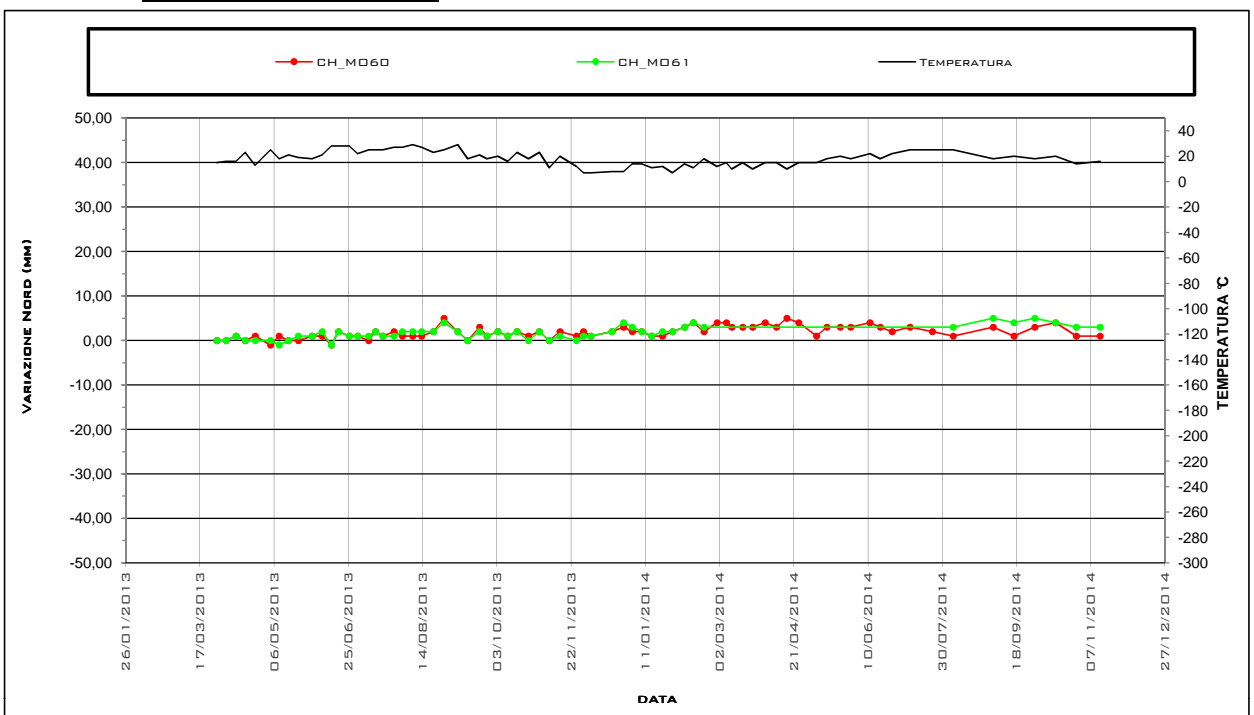
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 60-61  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 28/03/2013  
**Data lettura di zero** 28/03/2013



**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

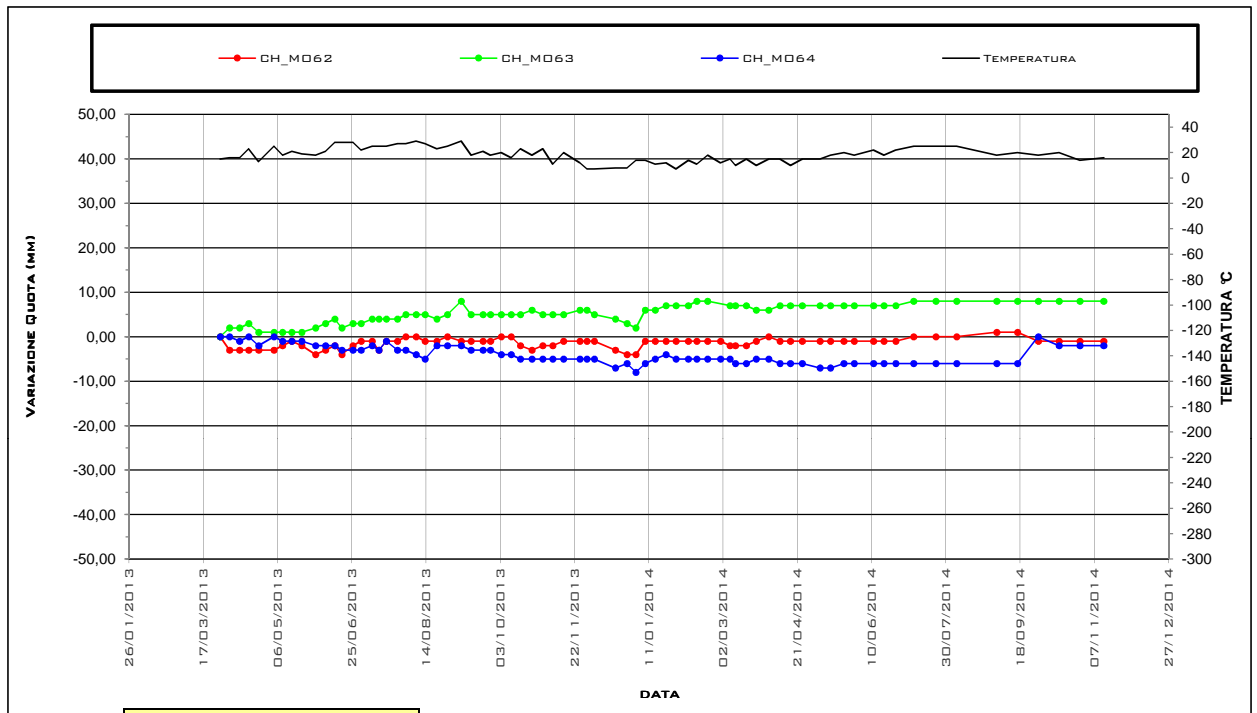
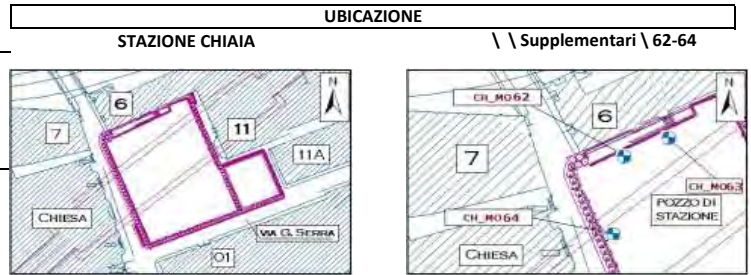
Ultima Misura 73 in data 13/11/2014

Lett. n°	DATA	CH_M062					CH_M063					CH_M064				
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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
33	31/10/2013 14.30	23,0	9,4	-2,0	-3,0	0,0	23,0	9,4	5,0	3,0	-3,0	23,0	9,0	-5,0	-2,0	3,0
34	07/11/2013 08.30	11,0	9,4	-2,0	-3,0	-2,0	11,0	9,4	5,0	3,0	-2,0	11,0	9,0	-5,0	-3,0	1,0
35	14/11/2013 14.30	20,0	9,4	-1,0	-4,0	0,0	20,0	9,4	5,0	2,0	-4,0	20,0	9,0	-5,0	-5,0	2,0
36	25/11/2013 15.30	12,0	9,4	-1,0	-3,0	0,0	12,0	9,4	6,0	3,0	-2,0	12,0	9,0	-5,0	-2,0	2,0
37	30/11/2013 08.30	7,0	9,4	-1,0	-3,0	0,0	7,0	9,4	6,0	2,0	-2,0	7,0	9,0	-5,0	-2,0	3,0
38	05/12/2013 08.30	7,0	9,4	-1,0	-3,0	0,0	7,0	9,4	5,0	3,0	-3,0	7,0	9,0	-5,0	-4,0	2,0
39	19/12/2013 13.00	8,0	9,4	-3,0	-3,0	0,0	8,0	9,4	4,0	3,0	-4,0	8,0	9,0	-7,0	-6,0	3,0
40	27/12/2013 09.00	8,0	9,4	-4,0	-2,0	1,0	8,0	9,4	3,0	2,0	-3,0	8,0	9,0	-6,0	-7,0	5,0
41	02/01/2014 07.30	14,0	9,4	-4,0	-1,0	1,0	14,0	9,4	2,0	2,0	-3,0	14,0	9,0	-8,0	-6,0	4,0
42	08/01/2014 14.30	14,0	9,4	-1,0	-6,0	1,0	14,0	9,4	6,0	2,0	-3,0	14,0	9,0	-6,0	-6,0	4,0
43	15/01/2014 08.30	11,0	9,4	-1,0	-4,0	0,0	11,0	9,4	6,0	1,0	-3,0	11,0	9,0	-5,0	-5,0	2,0
44	22/01/2014 14.30	12,0	9,4	-1,0	-5,0	1,0	12,0	9,4	7,0	3,0	-4,0	12,0	9,0	-4,0	-6,0	3,0
45	29/01/2014 08.30	7,0	9,4	-1,0	-4,0	0,0	7,0	9,4	7,0	1,0	-4,0	7,0	9,0	-5,0	-5,0	2,0
46	06/02/2014 14.30	14,0	9,4	-1,0	-4,0	1,0	14,0	9,4	7,0	0,0	-5,0	14,0	9,0	-5,0	-6,0	4,0
47	12/02/2014 08.30	11,0	9,4	-1,0	-4,0	2,0	11,0	9,4	8,0	0,0	-6,0	11,0	9,0	-5,0	-4,0	5,0
48	19/02/2014 14.30	18,0	9,4	-1,0	-5,0	0,0	18,0	9,4	8,0	-1,0	-7,0	18,0	9,0	-5,0	-5,0	4,0
49	28/02/2014 08.30	12,0	9,4	-1,0	-5,0	1,0					12,0	9,0	-5,0	-5,0	5,0	
50	06/03/2014 16.30	15,0	9,4	-2,0	-6,0	1,0	15,0	9,4	7,0	2,0	-4,0	15,0	9,0	-5,0	-5,0	5,0
51	10/03/2014 08.30	10,0	9,4	-2,0	-5,0	1,0	10,0	9,4	7,0	0,0	-6,0	10,0	9,0	-6,0	-5,0	4,0
52	17/03/2014 15.30	15,0	9,4	-2,0	-5,0	1,0	15,0	9,4	7,0	2,0	-5,0	15,0	9,0	-6,0	-4,0	3,0
53	24/03/2014 08.30	10,0	9,4	-1,0	-5,0	2,0	10,0	9,4	6,0	2,0	-4,0	10,0	9,0	-5,0	-6,0	6,0
54	01/04/2014 18.30	15,0	9,4	0,0	-6,0	3,0	15,0	9,4	6,0	2,0	-4,0	15,0	9,0	-5,0	-8,0	6,0
55	09/04/2014 08.30	15,0	9,4	-1,0	-6,0	1,0	15,0	9,4	7,0	3,0	-5,0	15,0	9,0	-6,0	-5,0	5,0
56	16/04/2014 08.30	10,0	9,4	-1,0	-7,0	2,0	10,0	9,4	7,0	1,0	-6,0	10,0	9,0	-6,0	-7,0	7,0
57	24/04/2014 08.30	15,0	9,4	-1,0	-7,0	1,0	15,0	9,4	7,0	0,0	-5,0	15,0	9,0	-6,0	-7,0	7,0
58	06/05/2014 08.30	15,0	9,4	-1,0	-4,0	0,0	15,0	9,4	7,0	0,0	-6,0	15,0	9,0	-7,0	-6,0	3,0
59	13/05/2014 08.30	18,0	9,4	-1,0	-6,0	0,0	18,0	9,4	7,0	2,0	-7,0	18,0	9,0	-7,0	-5,0	5,0
60	22/05/2014 08.30	20,0	9,4	-1,0	-8,0	0,0	20,0	9,4	7,0	2,0	-6,0	20,0	9,0	-6,0	-6,0	5,0
61	29/05/2014 08.30	18,0	9,4	-1,0	-7,0	0,0	18,0	9,4	7,0	1,0	-7,0	18,0	9,0	-6,0	-6,0	5,0
62	11/06/2014 08.30	22,0	9,4	-1,0	-7,0	0,0	22,0	9,4	7,0	1,0	-9,0	22,0	9,0	-6,0	-6,0	4,0
63	18/06/2014 08.30	18,0	9,4	-1,0	-5,0	0,0	18,0	9,4	7,0	1,0	-8,0	18,0	9,0	-6,0	-6,0	5,0
64	26/06/2014 08.30	22,0	9,4	-1,0	-7,0	0,0	22,0	9,4	7,0	2,0	-8,0	22,0	9,0	-6,0	-4,0	4,0
65	08/07/2014 08.30	25,0	9,4	0,0	-5,0	0,0	25,0	9,4	8,0	2,0	-8,0	25,0	9,0	-6,0	-5,0	5,0
66	23/07/2014 08.30	25,0	9,4	0,0	-3,0	-1,0	25,0	9,4	8,0	0,0	-10,0	25,0	9,0	-6,0	-6,0	3,0
67	06/08/2014 08.30	25,0	9,4	0,0	-7,0	0,0	25,0	9,4	8,0	-1,0	-8,0	25,0	9,0	-6,0	-6,0	5,0
68	02/09/2014 08.30	18,0	9,4	1,0	-5,0	0,0	18,0	9,4	8,0	-1,0	-8,0	18,0	9,0	-6,0	-6,0	5,0
69	16/09/2014 08.30	20,0	9,4	1,0	-5,0	0,0	20,0	9,4	8,0	0,0	-11,0	20,0	9,0	-6,0	-6,0	4,0
70	30/09/2014 08.30	18,0	9,4	-1,0	-7,0	0,0	18,0	9,4	8,0	1,0	-10,0	18,0	9,0	0,0	-1,0	8,0
71	14/10/2014 08.30	20,0	9,4	-1,0	-8,0	0,0	20,0	9,4	8,0	0,0	-11,0	20,0	9,0	-2,0	-1,0	5,0
72	28/10/2014 08.30	14,0	9,4	-1,0	-8,0	0,0	14,0	9,4	8,0	2,0	-10,0	14,0	9,0	-2,0	-4,0	4,0
73	13/11/2014 08.30	16,0	9,4	-1,0	-6,0	0,0	16,0	9,4	8,0	0,0	-11,0	16,0	9,0	-2,0	-1,0	4,0

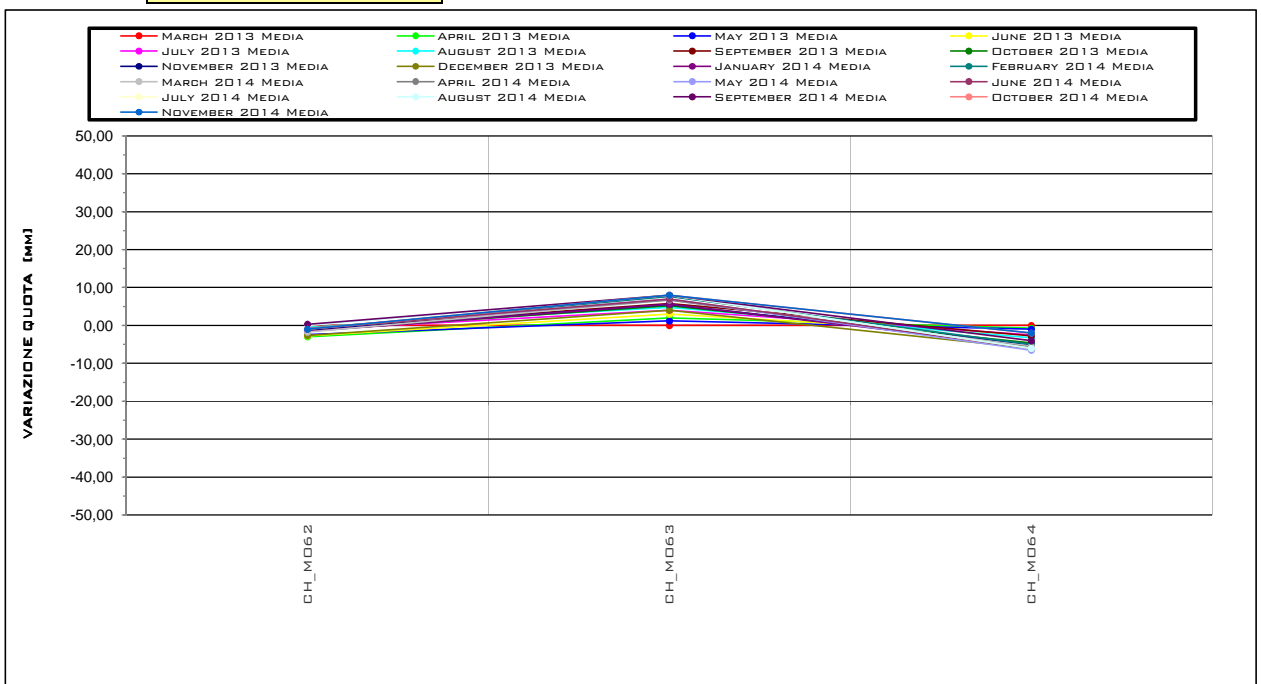


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 62-64  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 28/03/2013  
**Data lettura di zero** 28/03/2013

**GRAFICO QUOTA**

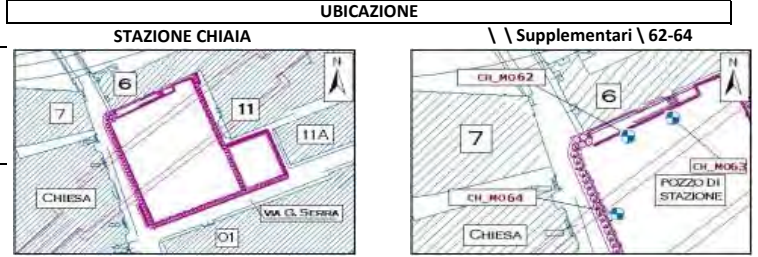


**GRAFICO ISOCRONE**

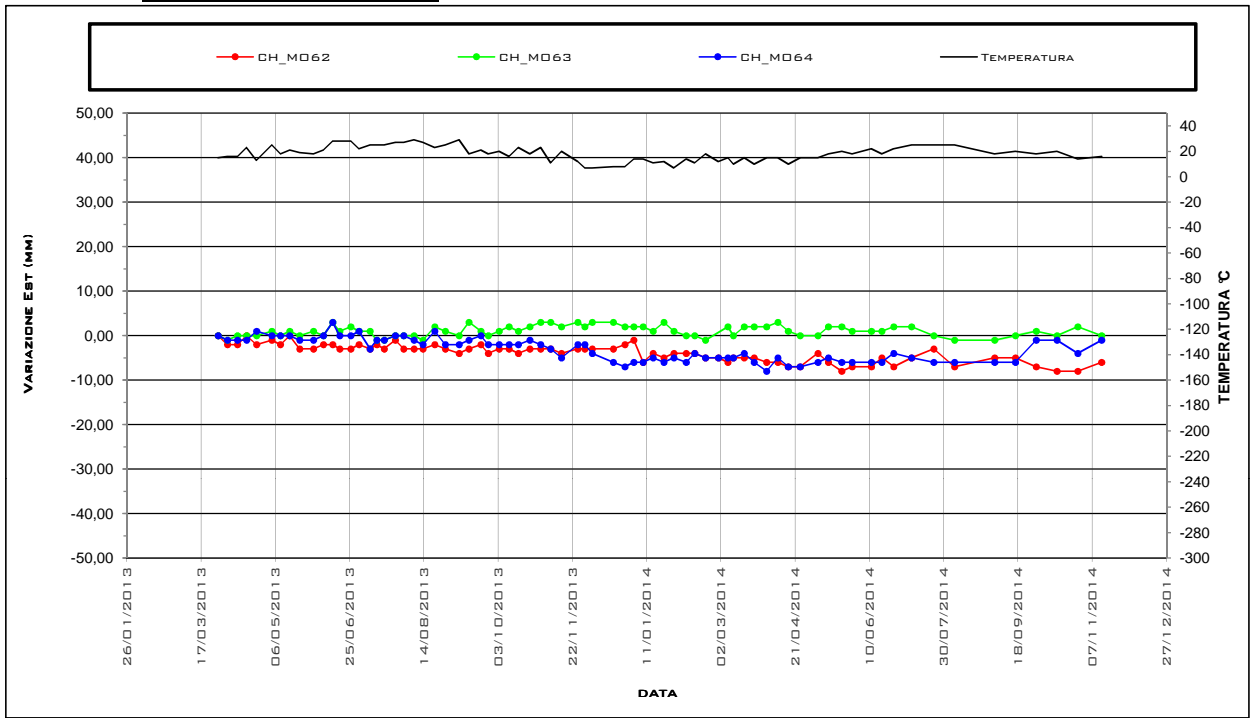




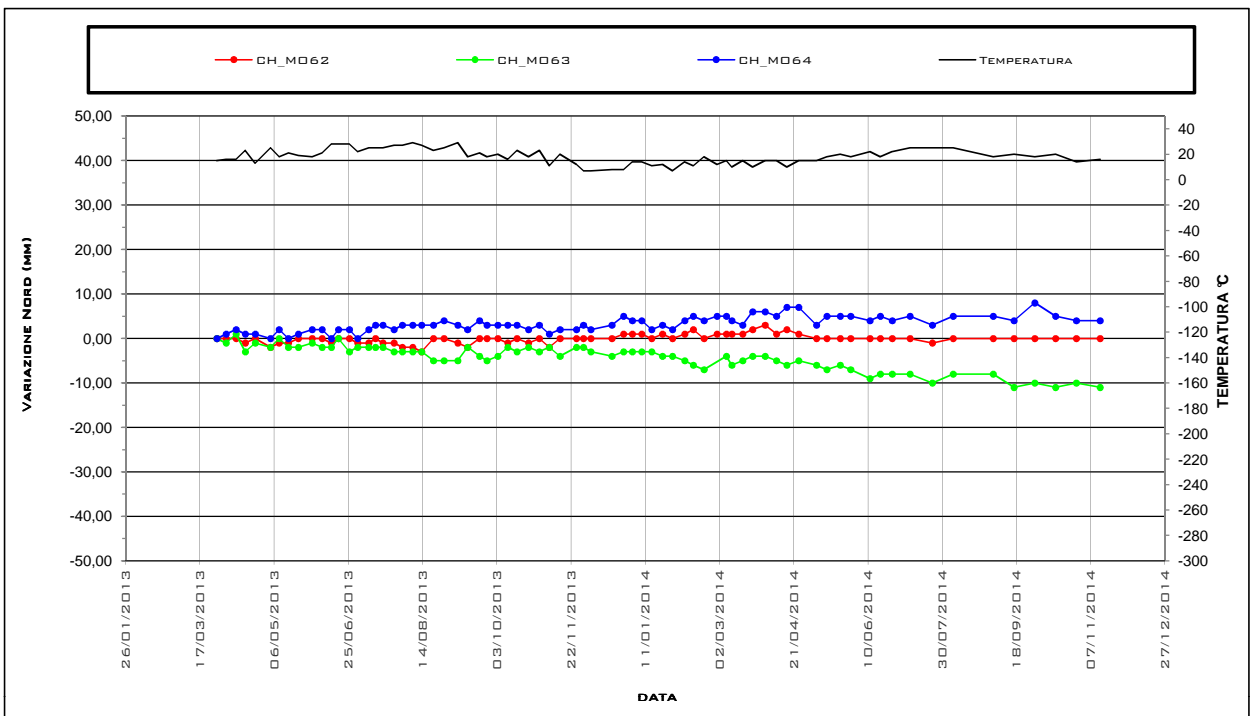
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 62-64  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 28/03/2013  
**Data lettura di zero** 28/03/2013



**GRAFICO EST**



**GRAFICO NORD**



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



nov-14

SAN PASQUALE

COD.STAZIONE	COD. STRUM.	TIPOLOGIA STRUM.	METRI da p.c.	10/11	11/11	12/11	13/11	14/11	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	6
	SP_PZ2_P	PIEZ. CASAGRANDE	30							0	6
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	5
SP	SP_PZ5_S	PIEZ. CASAGRANDE	15							0	6
	SP_PZ5_P	PIEZ. CASAGRANDE	30							0	6
SP	SP_PZ6_S	PIEZ. CASAGRANDE	15							0	5
	SP_PZ6_P	PIEZ. CASAGRANDE	30							0	5
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		1				P	1	3
	SP_PZ15_P	PIEZ. CASAGRANDE	45,5		1				P	1	3
SP	SP_PZ16_S	PIEZ. CASAGRANDE	22		1				P	1	4
	SP_PZ16_P	PIEZ. CASAGRANDE	39,5		1				P	1	4
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	5
SP	SP_IN3	INCLINOMETRO	45/45							0	6
SP	SP_IN4	INCLINOMETRO	0/54							0	0
SP	SP_IN4_1	INCLINOMETRO	50/50							0	5
SP	SP_EI5/ES5	ESTENSO-INCLINOMETRO	54/54				1		P	1	3
SP	SP_IN6	INCLINOMETRO	35/54							0	3
SP	SP_IN6_1	INCLINOMETRO	48/48							0	5
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	7
SP	SP_IN_P12	INCLINOMETRO	37/45							0	1
SP	SP_IN_P12_1	INCLINOMETRO	43/43							0	3
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	11
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	7
SP	SP_IN_P75	INCLINOMETRO	47/47							0	6
SP	SP_IN_P83	INCLINOMETRO	47/47				1		P	1	8
SP	SP_IN_P84	INCLINOMETRO	35/51							0	1
SP	SP_IN_P84_1	INCLINOMETRO	47/47				1		P	1	7












**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
<b>P</b>	ESITO POSITIVO
<b>N</b>	ESITO NEGATIVO
<b>Video</b>	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.

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