






# LINEA 6 – METROPOLITANA DI NAPOLI

				(PRIMA EMISSIONE) – FEBBRAIO 2014	FEB 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	2	C	I	2	9
						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>															
	<b>EMITTENTE</b>  METROPOLITANA DI NAPOLI S.p.A. RESPONSABILE PROGETTAZIONE OPERE CIVILI				<b>A.T.I. LM6</b>			<b>CODICE ENTE</b> 								
	 Monitoraggio delle gallerie e prove di laboratorio per la qualifica dei materiali e loro controllo Monitoraggio opere civili e monitoraggio ambientale				<b>FORMATO</b> A4		<b>SCALA</b> /		<b>FOGLIO</b> 1 DI 145							

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## 1. PREMESSA

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

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

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

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

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


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

## **2. DATI GENERALI**

Commessa: Linea 6 – Metropolitana Di Napoli

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

Monitoraggio: Tre Esse Engineering S.r.l.

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### 3. STRUMENTAZIONE INTERNA INSTALLATA

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

**Esempio:**                    **CH\_P50\_S1;**

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

la seconda è identificativa del numero di pannello monitorato,

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

#### **Elenco strumentazione installata e funzionante.**

- n°4 Inclinometri

CH\_IN\_P13  
CH\_IN\_P50  
CH\_IN\_P67  
CH\_IN\_P81

- n°24 Barrette Estensimetriche a corda vibrante per metallo

CH\_P13\_S1-6  
CH\_P50\_S1-6  
CH\_P67\_S1-6  
CH\_PU1\_S1-4  
CH\_PU2\_S5-8

- 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°70 Mire Ottiche

Primo Ordine

CH\_MO1-16

Secondo Ordine

CH\_MO17-32

Terzo Ordine


CH\_MO33-40

Quarto Ordine

CH\_MO36-44

Supplementari

CH\_MO45-70

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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.

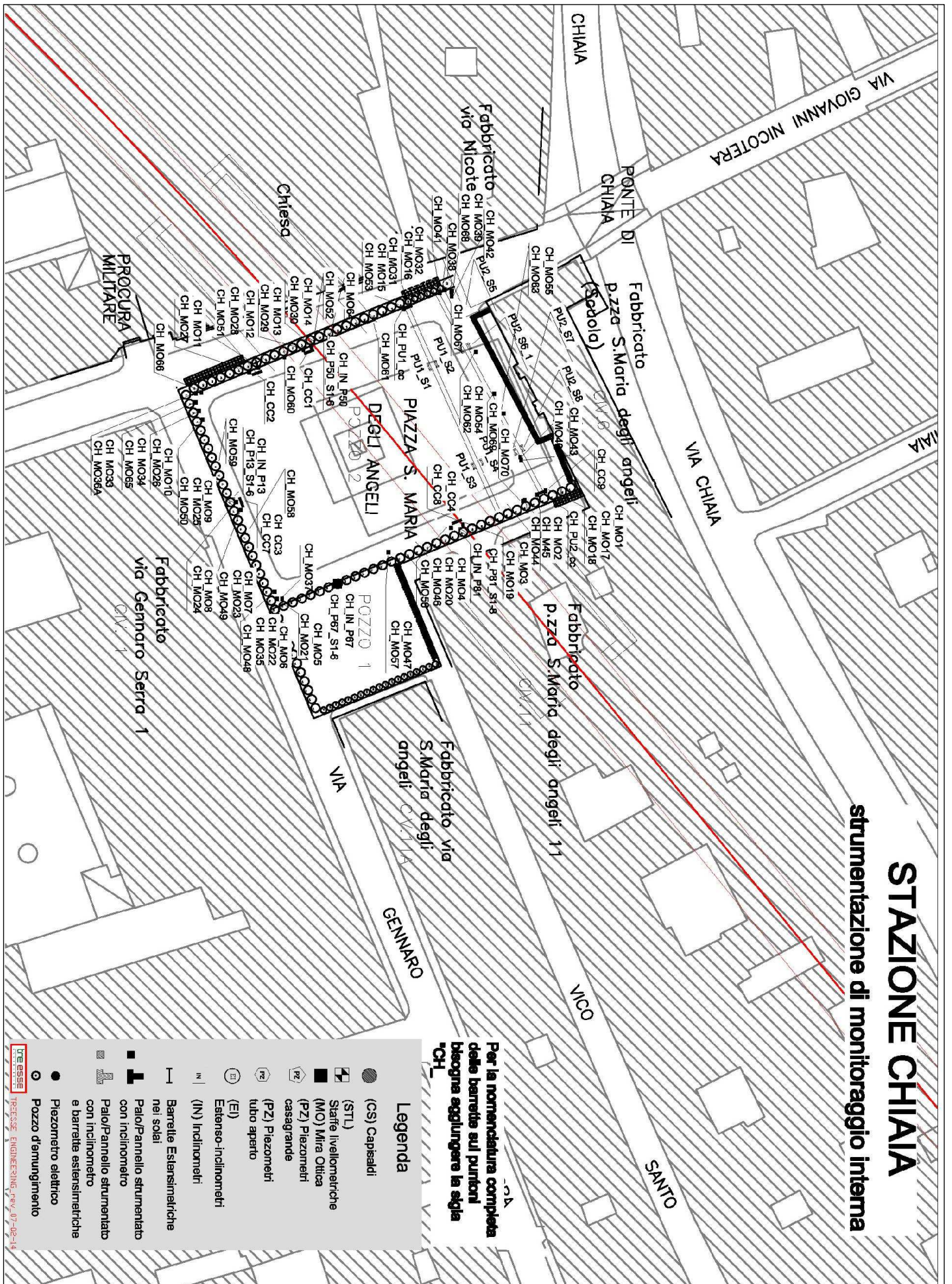



Figura 4.1.: Planimetria pozzo stazione, raffigurante la disposizione della strumentazione di monitoraggio geotecnico interno installata.



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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).

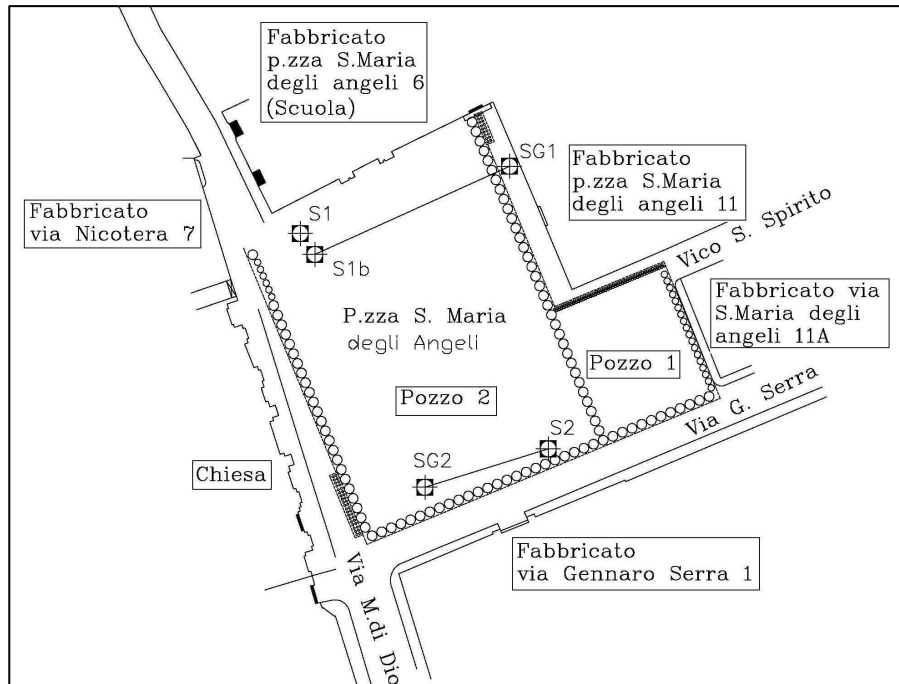


Figura 5.1.: Planimetria pozzo stazione, raffigurante la collocazione di alcuni sondaggi effettuati per la campagna propedeutica alla stesura del Progetto Definitivo (2005).

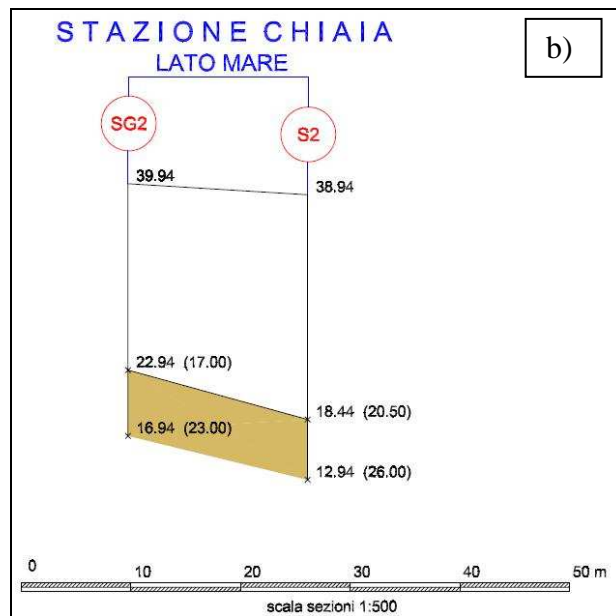
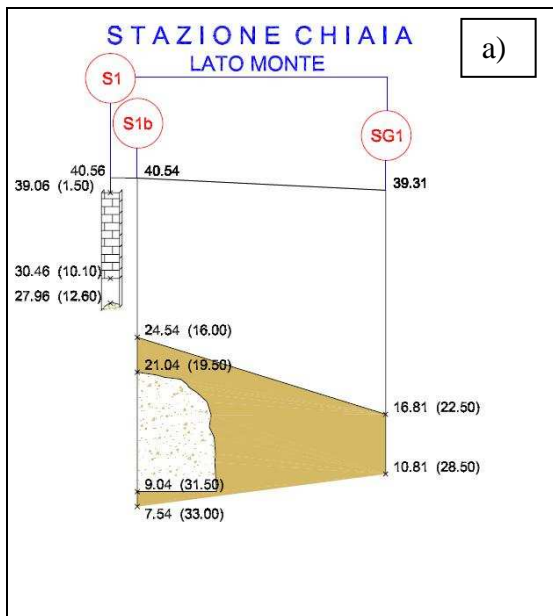



Figura 5.2a e5.2b : Andamento del tetto del Tufo (lato monte e lato mare) - Stralcio da Elaborato grafico Progetto Definitivo Stazione Chiaia allegato alla Relazione Geologica (cod. doc.: LM67F2C0159 – ANNO 2005).


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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 degli scavi per l'approfondimento del pozzo stazione, la conclusione dei lavori per l'allargamento della galleria lato san Pasquale e il prosieguo degli scavi per l'allargo lato Municipio. Sul lato prossimo alla scuola, longitudinalmente alla facciata principale dell'edificio sono presenti 2 puntoni in acciaio di contrasto fra le paratie di pannelli. Le paratie di pannelli sono inoltre collegate fra di loro a varie quote grazie all'utilizzo di travi in acciaio tirantate.

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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'

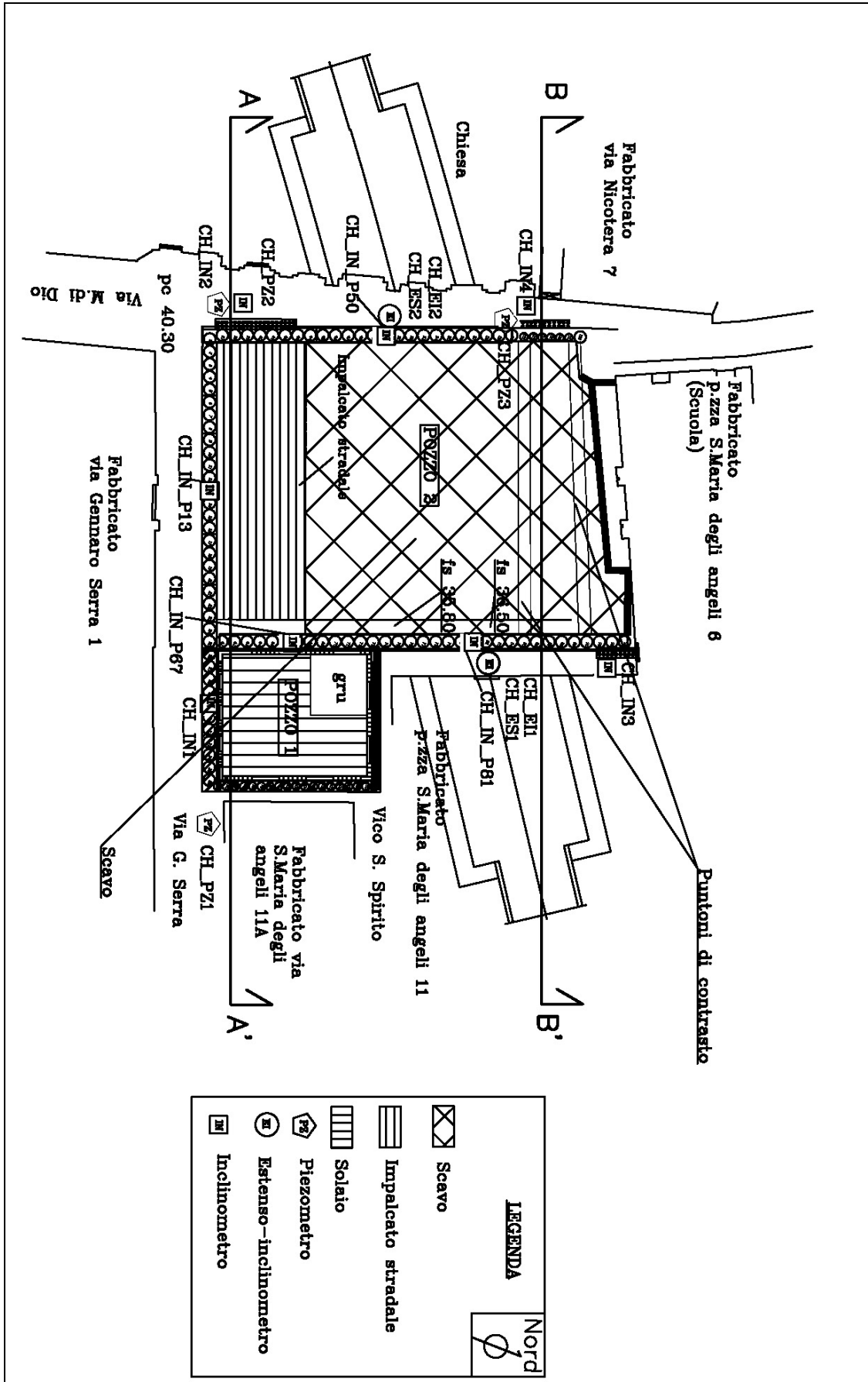


Figura 6.1.: Planimetria pozzo stazione, raffigurante la suddivisione in aree di lavoro.

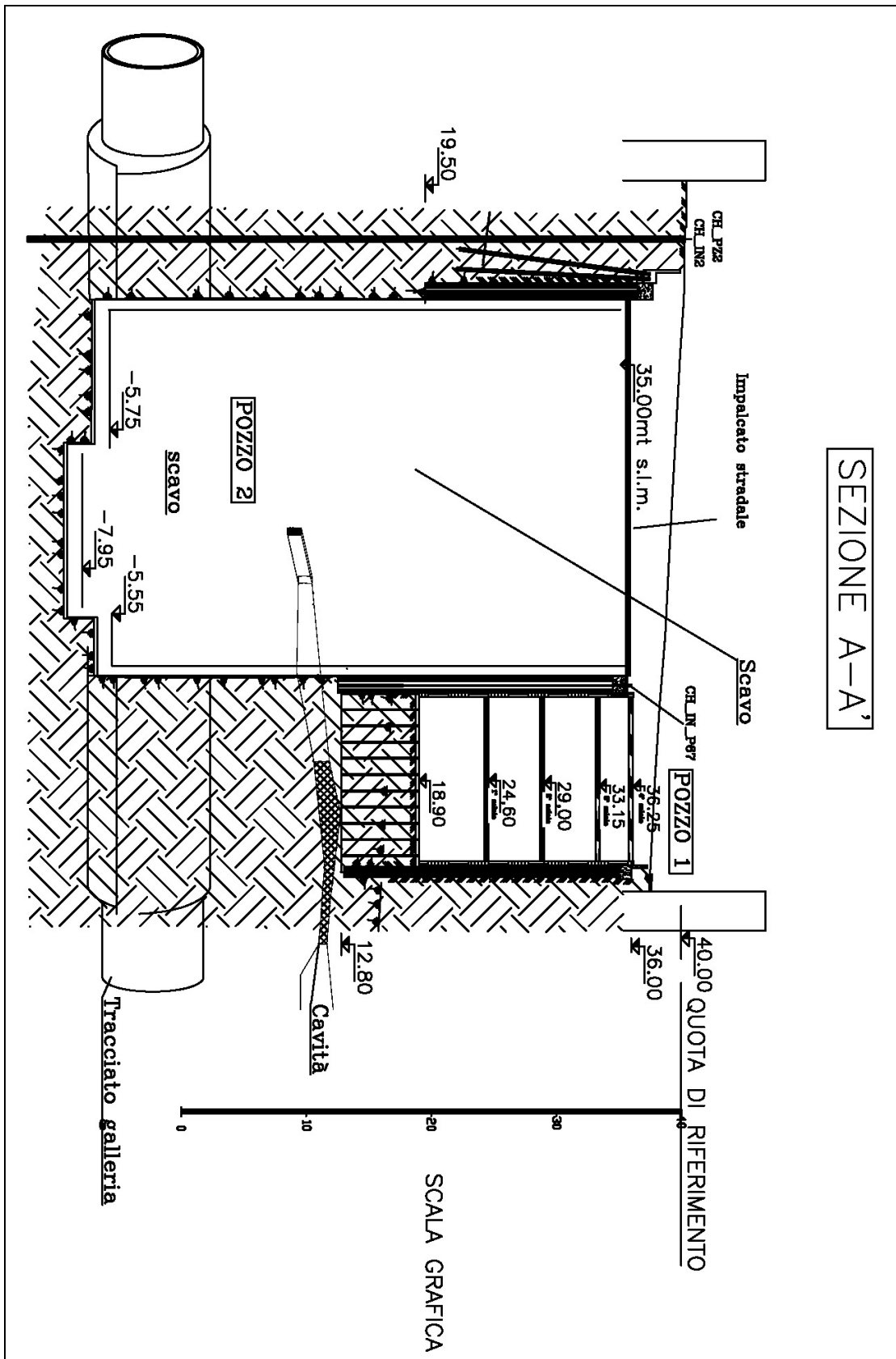


Figura 6.2.: Sezione A-A' pozzo stazione, raffigurante la suddivisione in aree di lavoro.

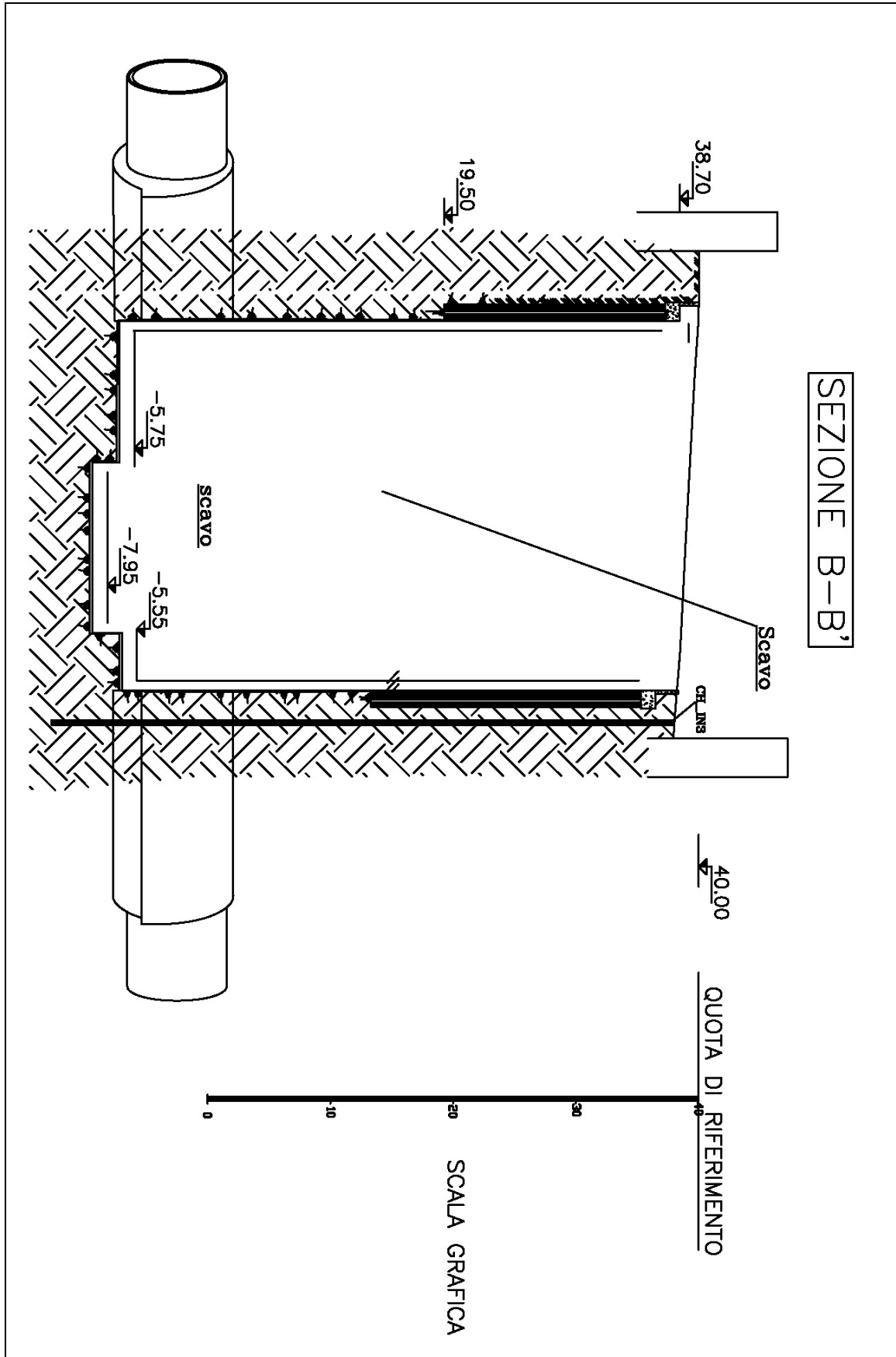



Figura 6.3.: Sezione B-B' pozzo stazione, raffigurante la suddivisione in aree di lavoro.

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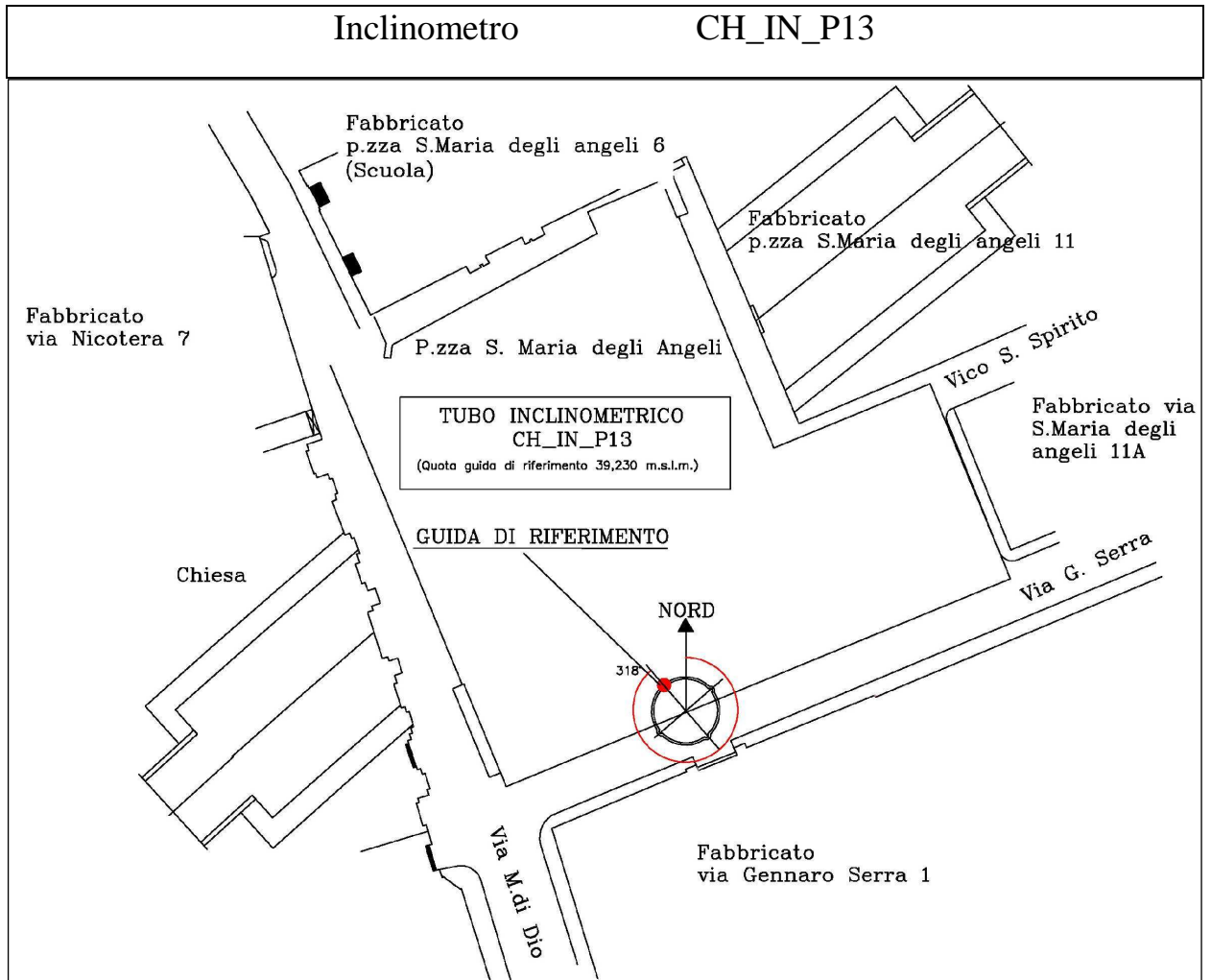
## 7. MISURE GEOTECNICHE – INCLINOMETRICHE

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			





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

NOTE



MISURE INCLINOMETRICHE  
ELABORAZIONE DA FONDO FORO  
-TABULATI-

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 **83** in data **20/02/2014 09.40**

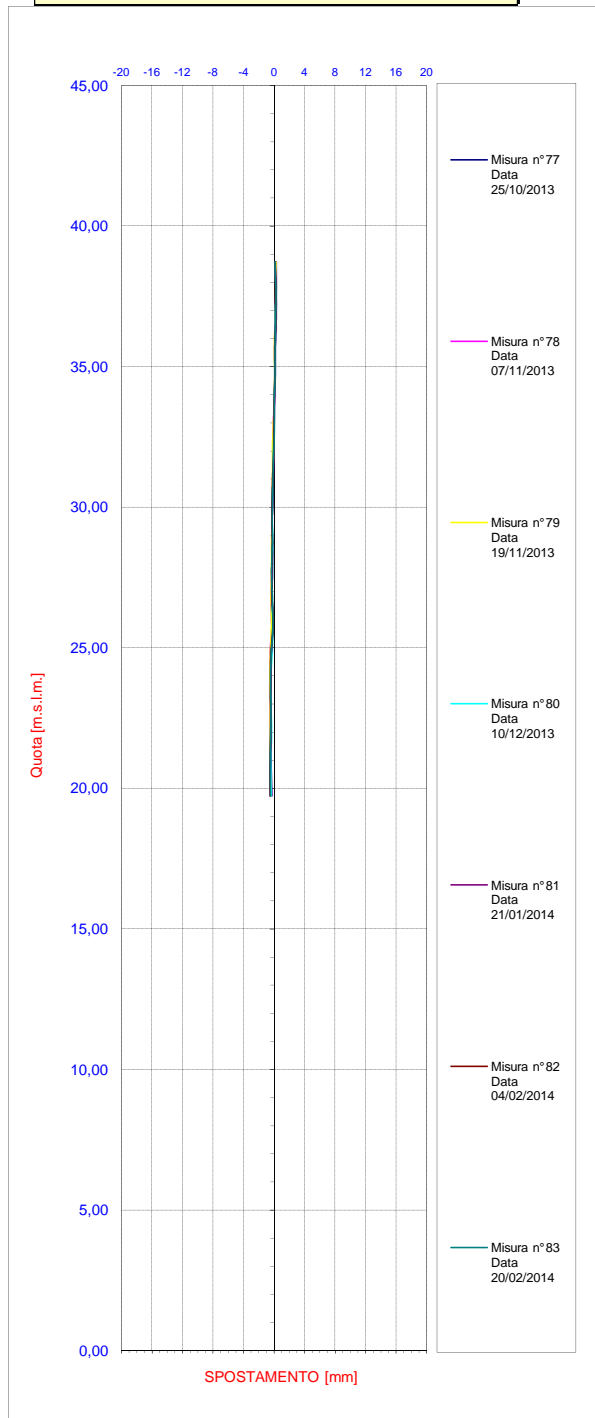
SPOSTAMENTI LOCALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
38,7	0,115	0,137	0,179	39,976
37,7	0,239	-0,070	0,249	106,229
36,7	0,229	-0,308	0,383	143,374
35,7	0,123	-0,223	0,255	151,033
34,7	0,126	-0,212	0,247	149,178
33,7	0,032	-0,162	0,165	168,922
32,7	0,023	-0,032	0,039	143,554
31,7	-0,082	-0,197	0,214	202,470
30,7	-0,182	-0,124	0,220	235,701
29,7	-0,249	-0,166	0,299	236,299
28,7	-0,233	-0,014	0,233	266,450
27,7	-0,339	-0,057	0,344	260,407
26,7	-0,222	0,055	0,228	283,989
25,7	-0,160	-0,073	0,176	245,636
24,7	-0,410	0,283	0,498	304,668
23,7	-0,474	0,281	0,551	300,669
22,7	-0,437	0,405	0,596	312,773
21,7	-0,477	0,413	0,631	310,876
20,7	-0,518	0,545	0,752	316,461
19,7	-0,497	0,446	0,668	311,917

SPOSTAMENTI INTEGRALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
38,7	-3,391	0,928	3,516	285,300
37,7	-3,506	0,790	3,594	282,702
36,7	-3,745	0,860	3,843	282,930
35,7	-3,974	1,167	4,142	286,372
34,7	-4,097	1,391	4,327	288,746
33,7	-4,224	1,602	4,518	290,775
32,7	-4,255	1,764	4,607	292,518
31,7	-4,279	1,796	4,640	292,769
30,7	-4,197	1,993	4,647	295,404
29,7	-4,015	2,118	4,539	297,808
28,7	-3,766	2,284	4,404	301,230
27,7	-3,533	2,298	4,215	303,040
26,7	-3,194	2,355	3,969	306,405
25,7	-2,973	2,300	3,759	307,732
24,7	-2,813	2,373	3,680	310,152
23,7	-2,403	2,089	3,184	311,008
22,7	-1,929	1,808	2,644	313,152
21,7	-1,492	1,404	2,048	313,262
20,7	-1,014	0,991	1,418	314,323
19,7	-0,497	0,446	0,668	311,917

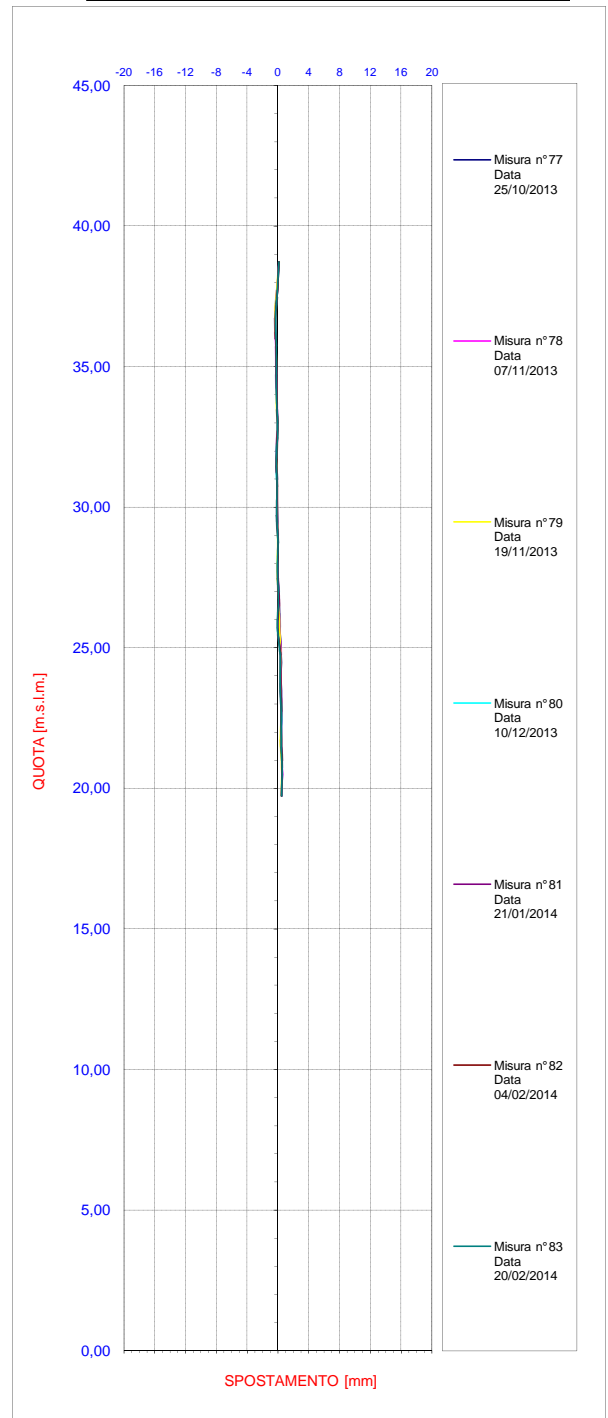
Ubicazione **STAZIONE CHIAIA**  
 Tipo Strumento **Tubo inclinometrico**  
 Nome tubo **CH\_IN\_P13**  
 Azimut di riferimento **318**  
 Quota guida rif. (m.s.l.m.) **39,23**  
 Data lettura di zero **22/12/2010**  
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Ultima Misura **83** in data **20/02/2014 09.40**

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

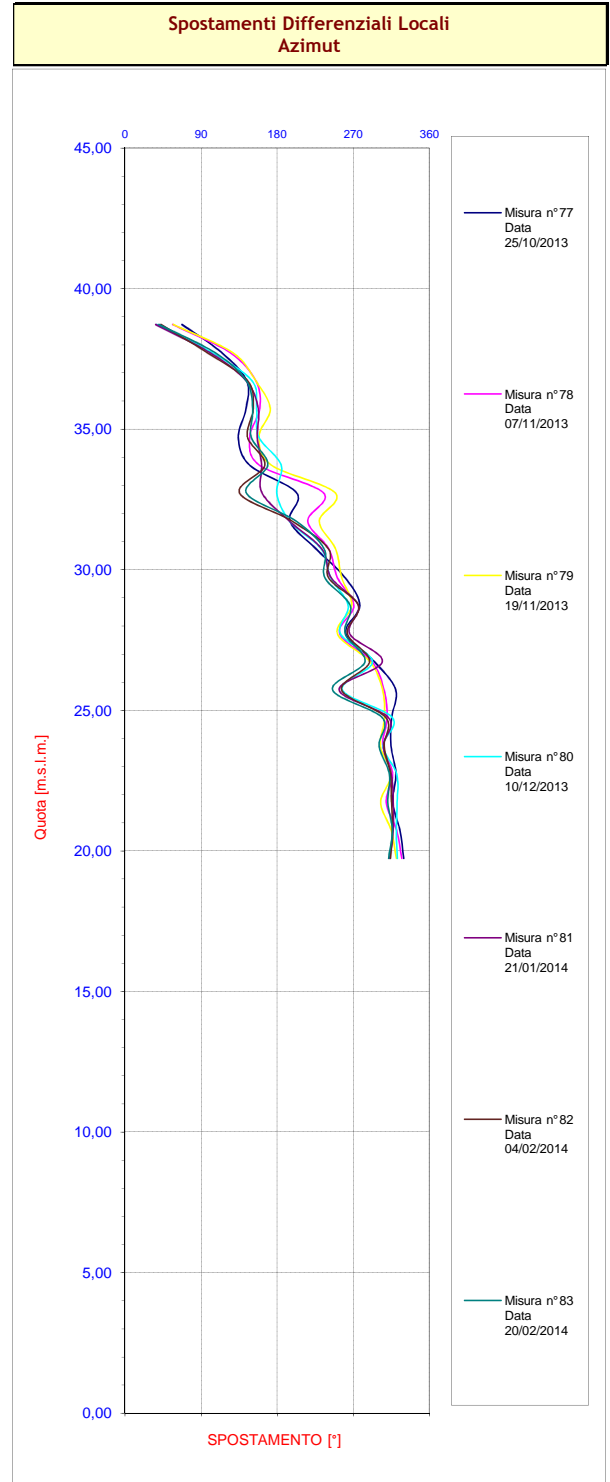
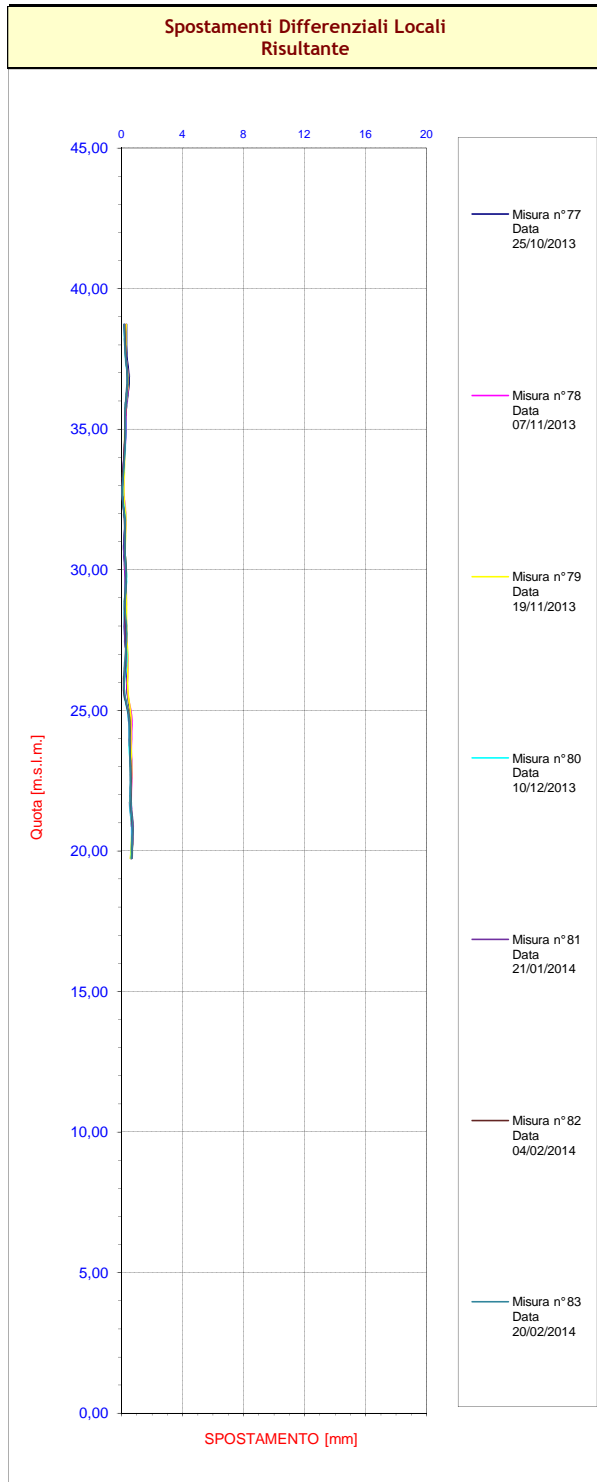


**Spostamenti Differenziali Locali**  
SUD - (valori negativi) / NORD + (valori positivi)



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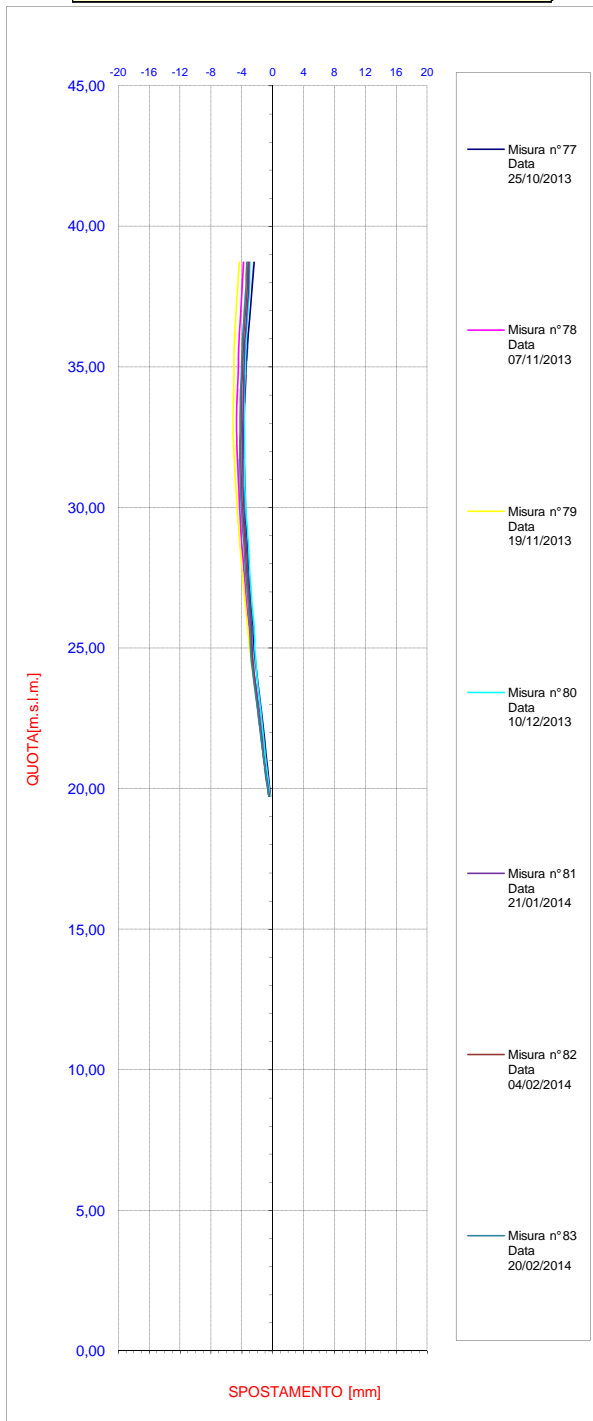
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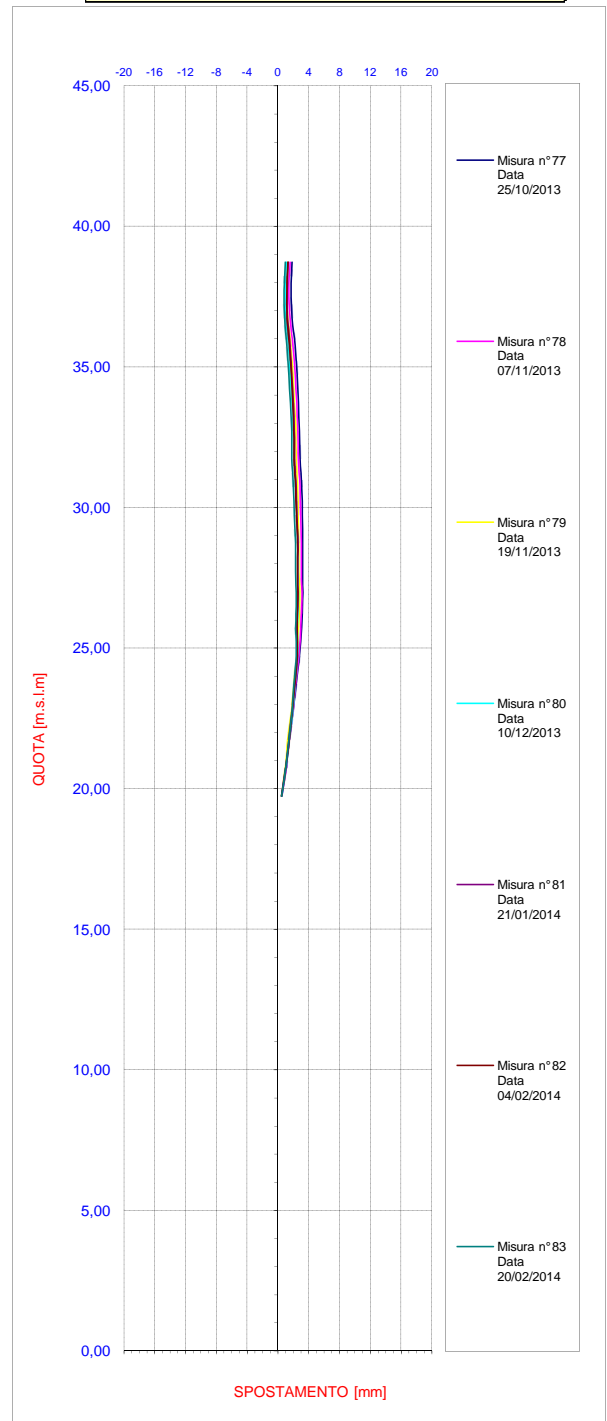
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Spostamenti Differenziali Integrali  
OVEST- (valori negativi) / EST + (valori positivi)



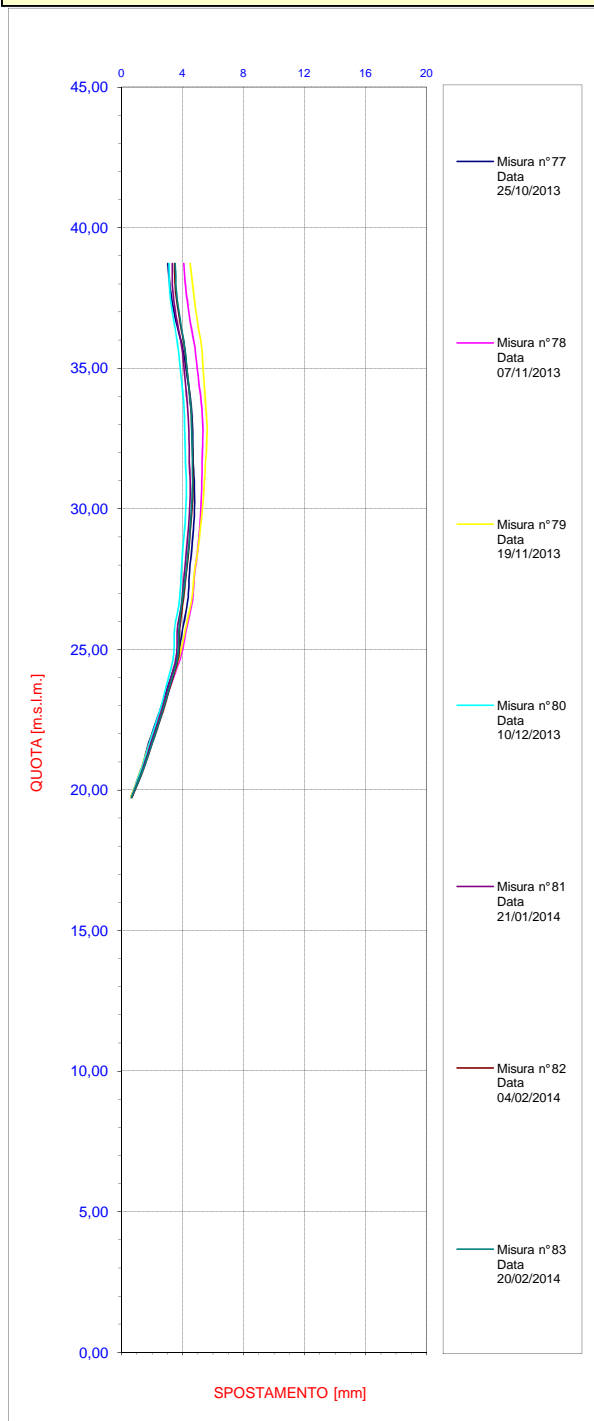
Spostamenti Differenziali Integrali  
SUD - (valori negativi) / NORD + (valori positivi)



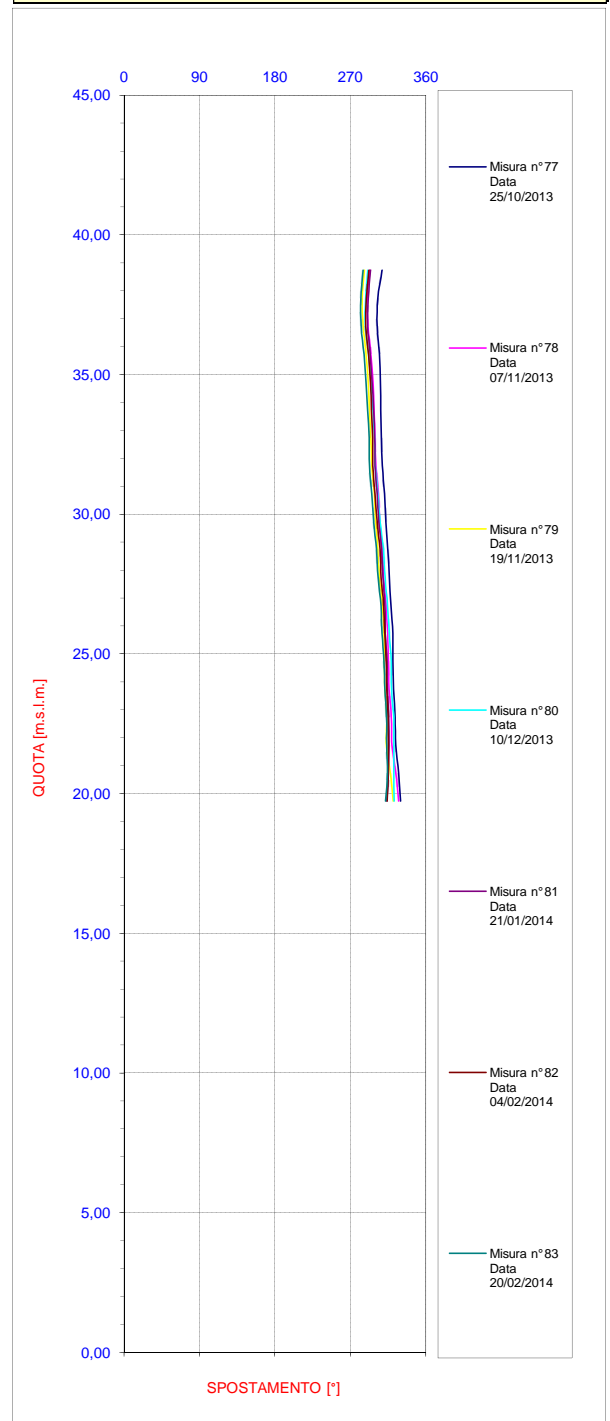
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 Data posa in opera **06/12/2010**

Ultima Misura **83** in data **20/02/2014 09.40**

Spostamenti Differenziali Integrali Risultante



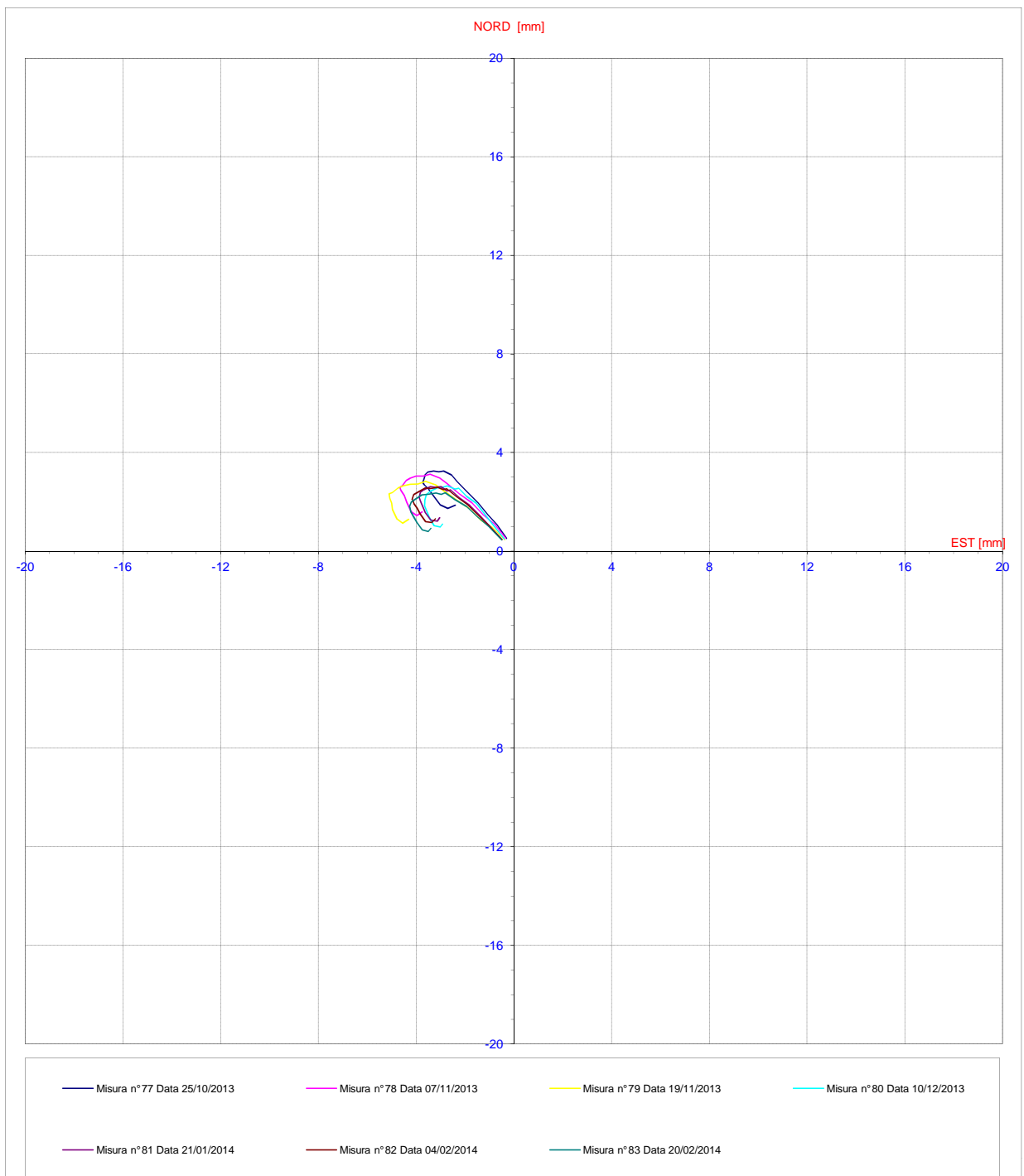
Spostamenti Differenziali Integrali Azimut



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**

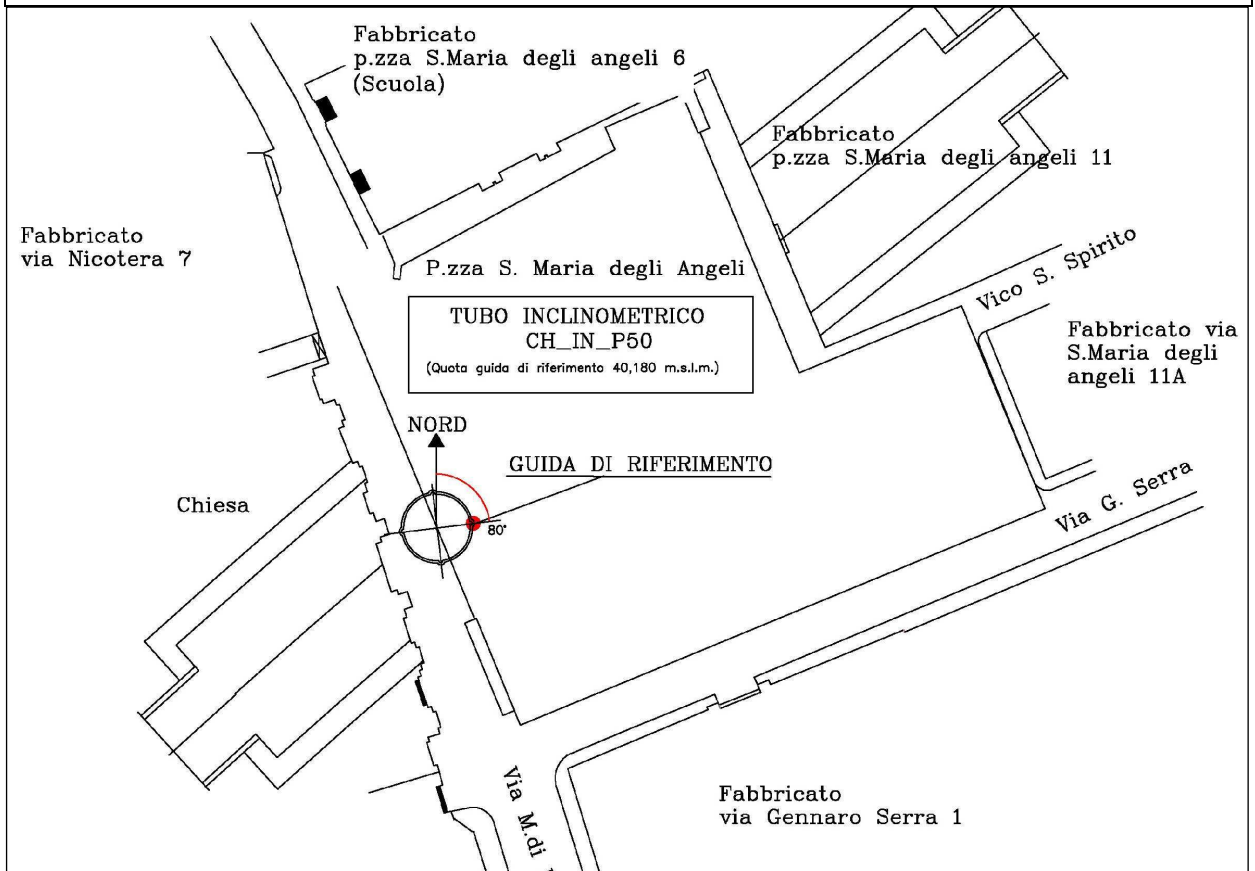
Ultima Misura **83** in data **20/02/2014 09.40**

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 **88** in data **20/02/2014 10.03**

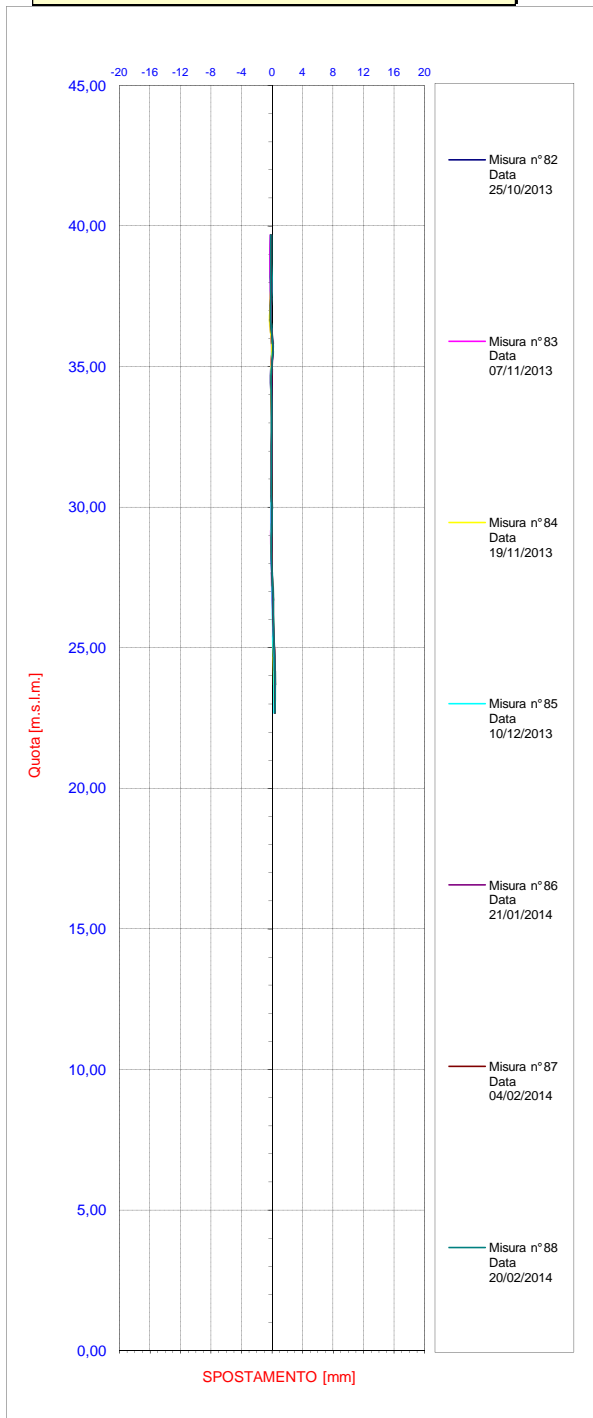
SPOSTAMENTI LOCALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
39,7	-0,183	-0,067	0,195	249,945
38,7	-0,168	-0,128	0,211	232,583
37,7	-0,179	-0,080	0,196	245,925
36,7	-0,216	-0,058	0,224	255,005
35,7	0,104	-0,251	0,272	157,509
34,7	-0,119	-0,090	0,149	232,831
33,7	-0,069	-0,038	0,079	241,288
32,7	-0,066	0,007	0,066	276,220
31,7	-0,101	-0,117	0,155	220,819
30,7	-0,104	-0,068	0,124	236,646
29,7	-0,007	-0,048	0,049	188,405
28,7	-0,098	-0,242	0,261	202,013
27,7	-0,014	-0,011	0,018	232,971
26,7	0,157	-0,143	0,212	132,378
25,7	0,202	-0,101	0,226	116,589
24,7	0,323	-0,103	0,339	107,745
23,7	0,410	-0,029	0,411	94,057
22,7	0,374	-0,111	0,390	106,588

SPOSTAMENTI INTEGRALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
39,7	0,246	-1,680	1,698	171,658
38,7	0,429	-1,613	1,669	165,094
37,7	0,597	-1,485	1,600	158,096
36,7	0,776	-1,405	1,605	151,098
35,7	0,992	-1,347	1,673	143,638
34,7	0,888	-1,096	1,410	140,987
33,7	1,006	-1,006	1,423	134,984
32,7	1,076	-0,968	1,447	131,972
31,7	1,142	-0,975	1,501	130,494
30,7	1,243	-0,857	1,510	124,594
29,7	1,347	-0,789	1,561	120,375
28,7	1,354	-0,741	1,543	118,688
27,7	1,452	-0,499	1,535	108,961
26,7	1,466	-0,488	1,545	108,417
25,7	1,309	-0,345	1,354	104,768
24,7	1,107	-0,244	1,133	102,424
23,7	0,784	-0,140	0,796	100,161
22,7	0,374	-0,111	0,390	106,588

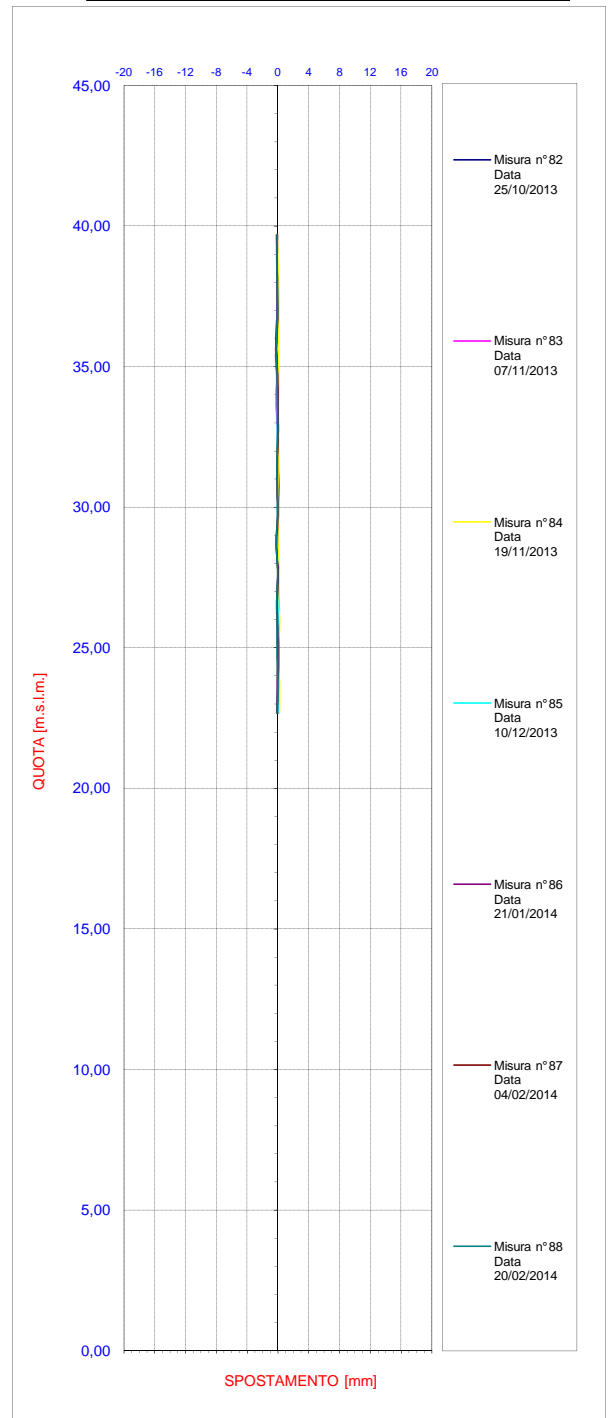
Ubicazione **STAZIONE CHIAIA**  
 Tipo Strumento **Tubo inclinometrico**  
 Nome tubo **CH\_IN\_P50**  
 Azimut di riferimento **80**  
 Quota guida rif. (m.s.l.m.) **40,18**  
 Data lettura di zero **21/01/2011**  
 Data posa in opera **21/12/2010**

Ultima Misura **88** in data **20/02/2014 10.03**

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

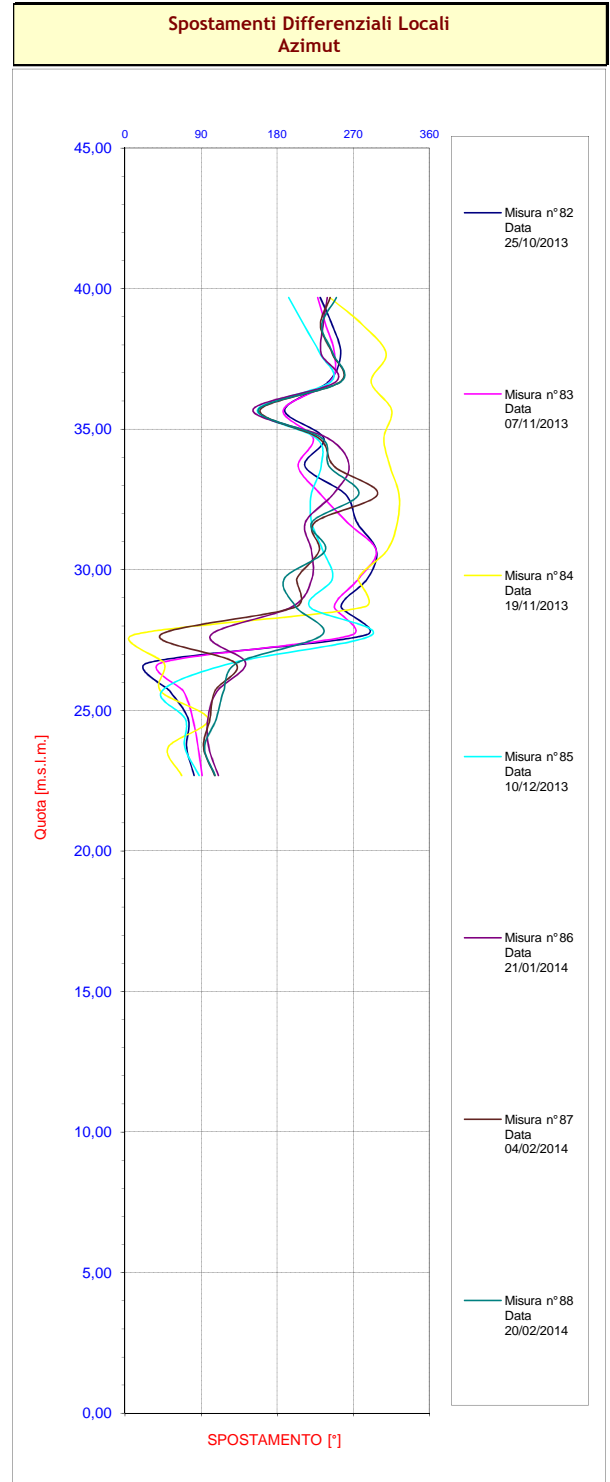
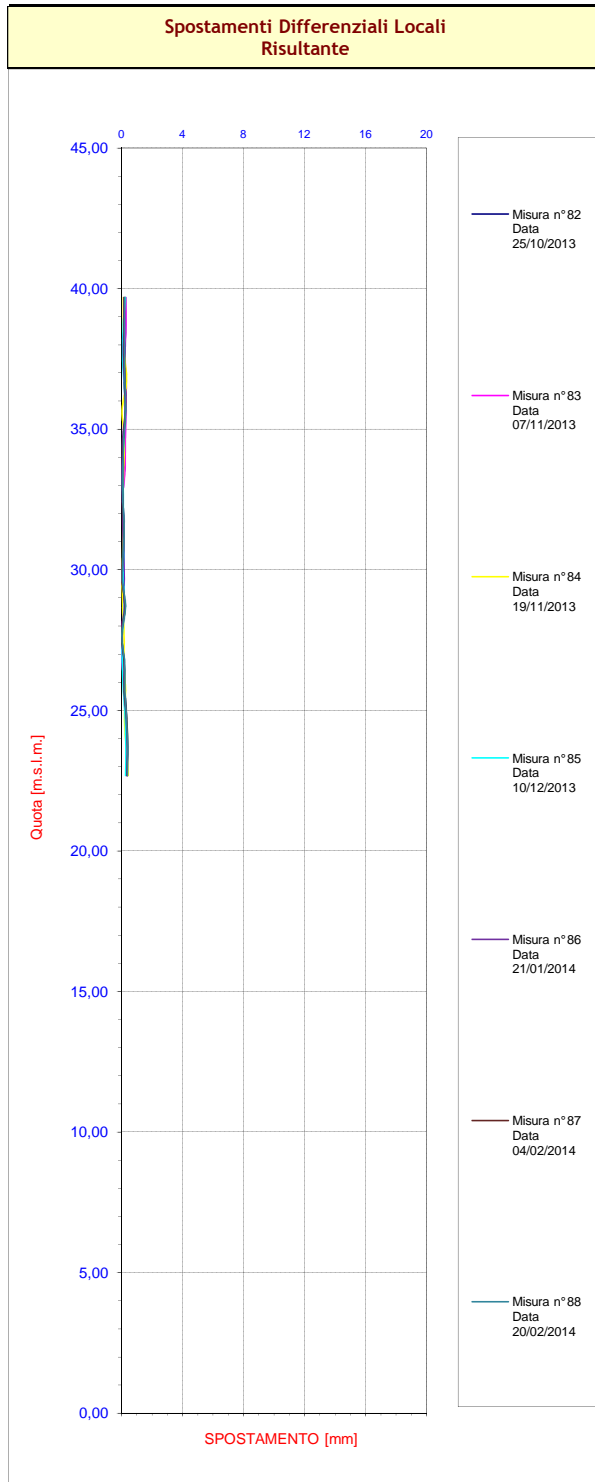


**Spostamenti Differenziali Locali  
SUD - (valori negativi) / NORD + (valori positivi)**



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**

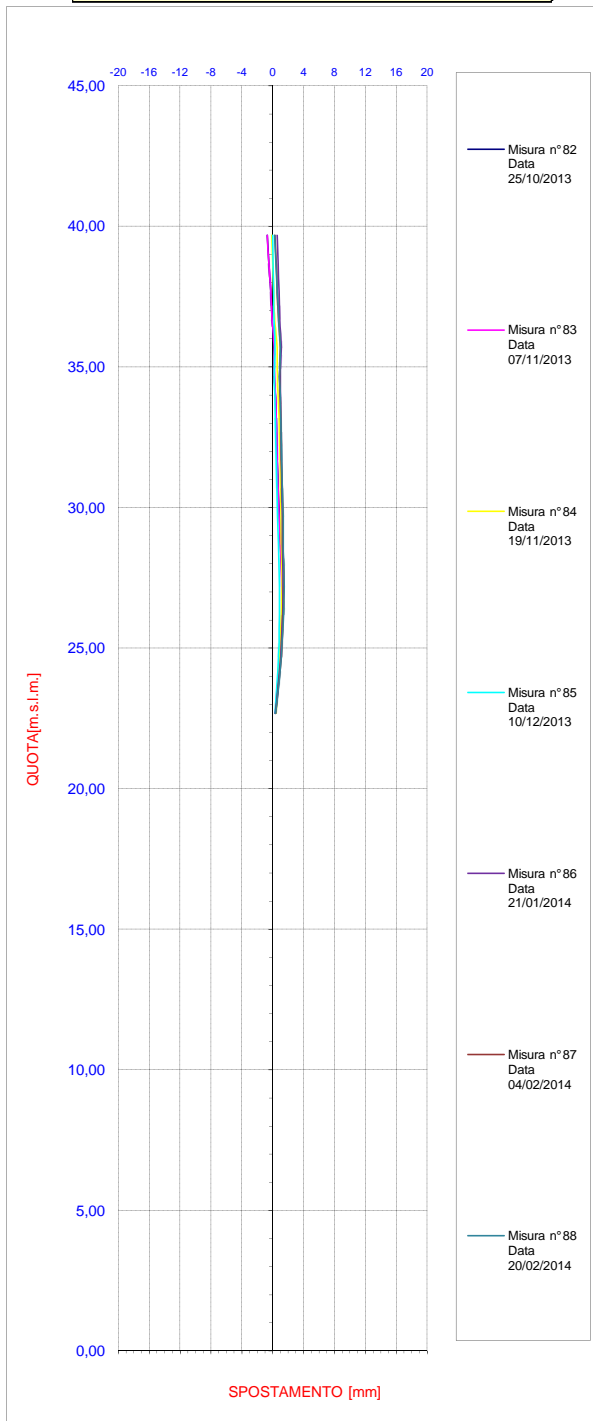
Ultima Misura **88** in data **20/02/2014 10.03**



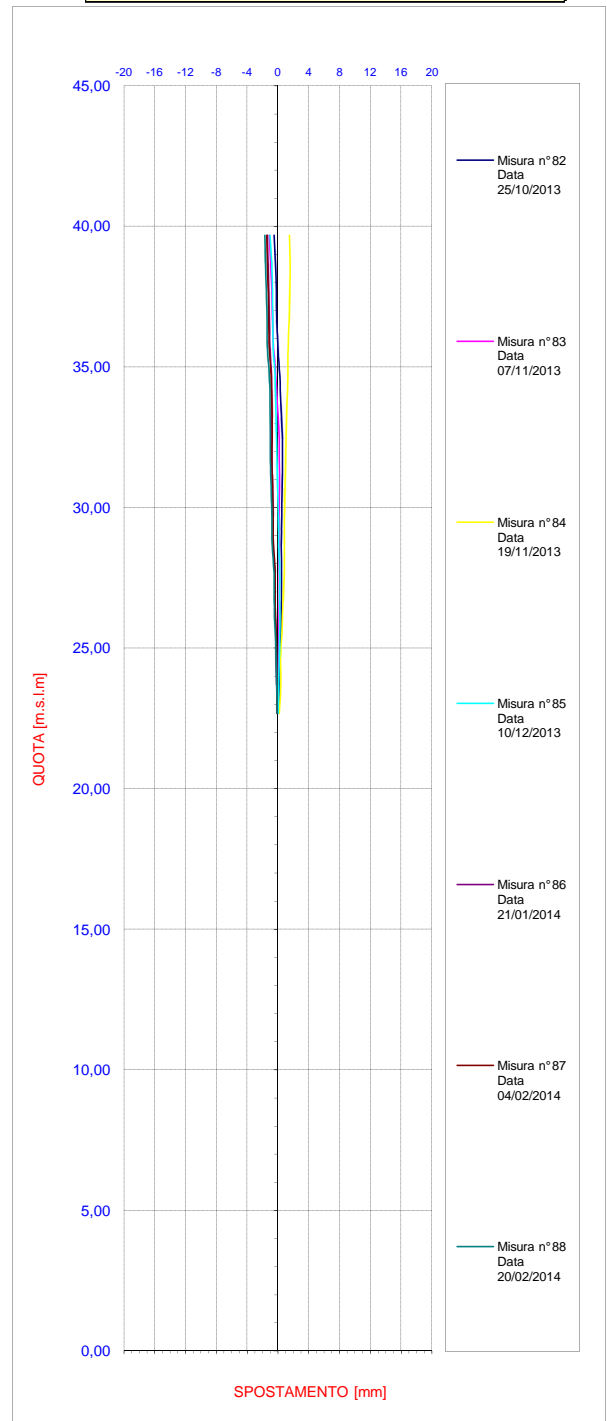
Ubicazione **STAZIONE CHIAIA**  
Tipo Strumento **Tubo inclinometrico**  
Nome tubo **CH\_IN\_P50**  
Azimut di riferimento **80**  
Quota guida rif. (m.s.l.m.) **40,18**  
Data lettura di zero **21/01/2011**  
Data posa in opera **21/12/2010**

Ultima Misura **88** in data **20/02/2014 10.03**

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



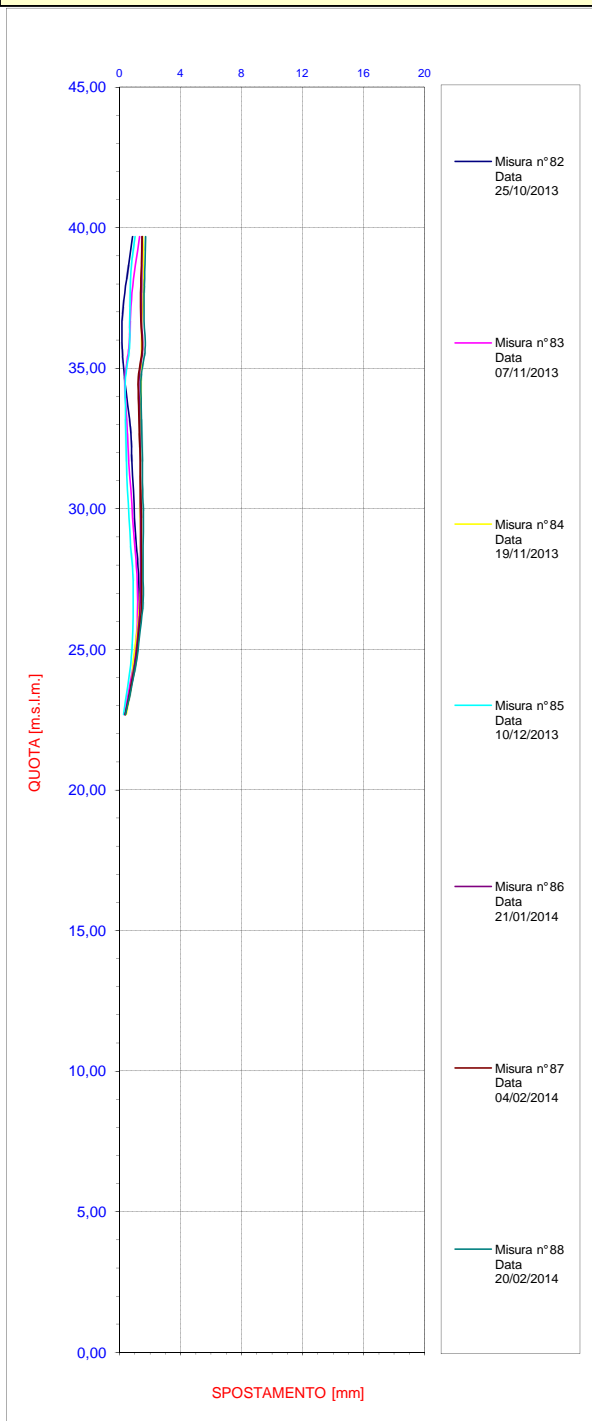
Spostamenti Differenziali Integrali  
SUD - (valori negativi) / NORD + (valori positivi)



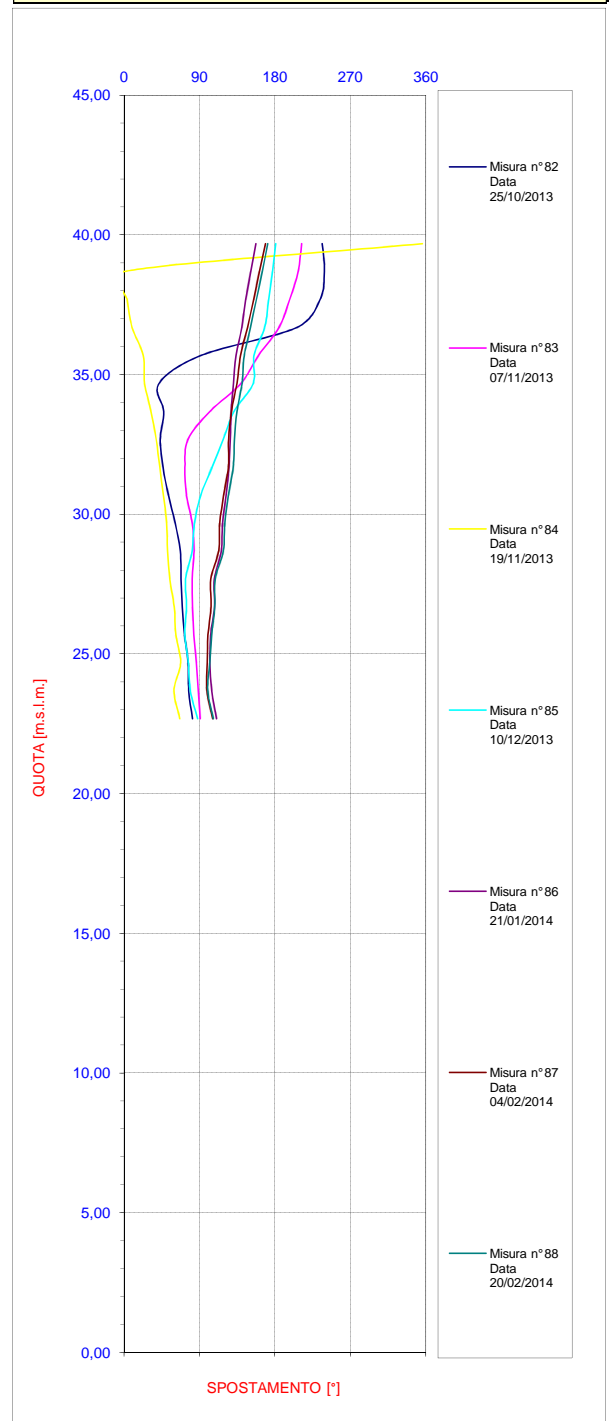
Ubicazione **STAZIONE CHIAIA**  
 Tipo Strumento **Tubo inclinometrico**  
 Nome tubo **CH\_IN\_P50**  
 Azimut di riferimento **80**  
 Quota guida rif. (m.s.l.m.) **40,18**  
 Data lettura di zero **21/01/2011**  
 Data posa in opera **21/12/2010**

Ultima Misura **88** in data **20/02/2014 10.03**

Spostamenti Differenziali Integrali Risultante



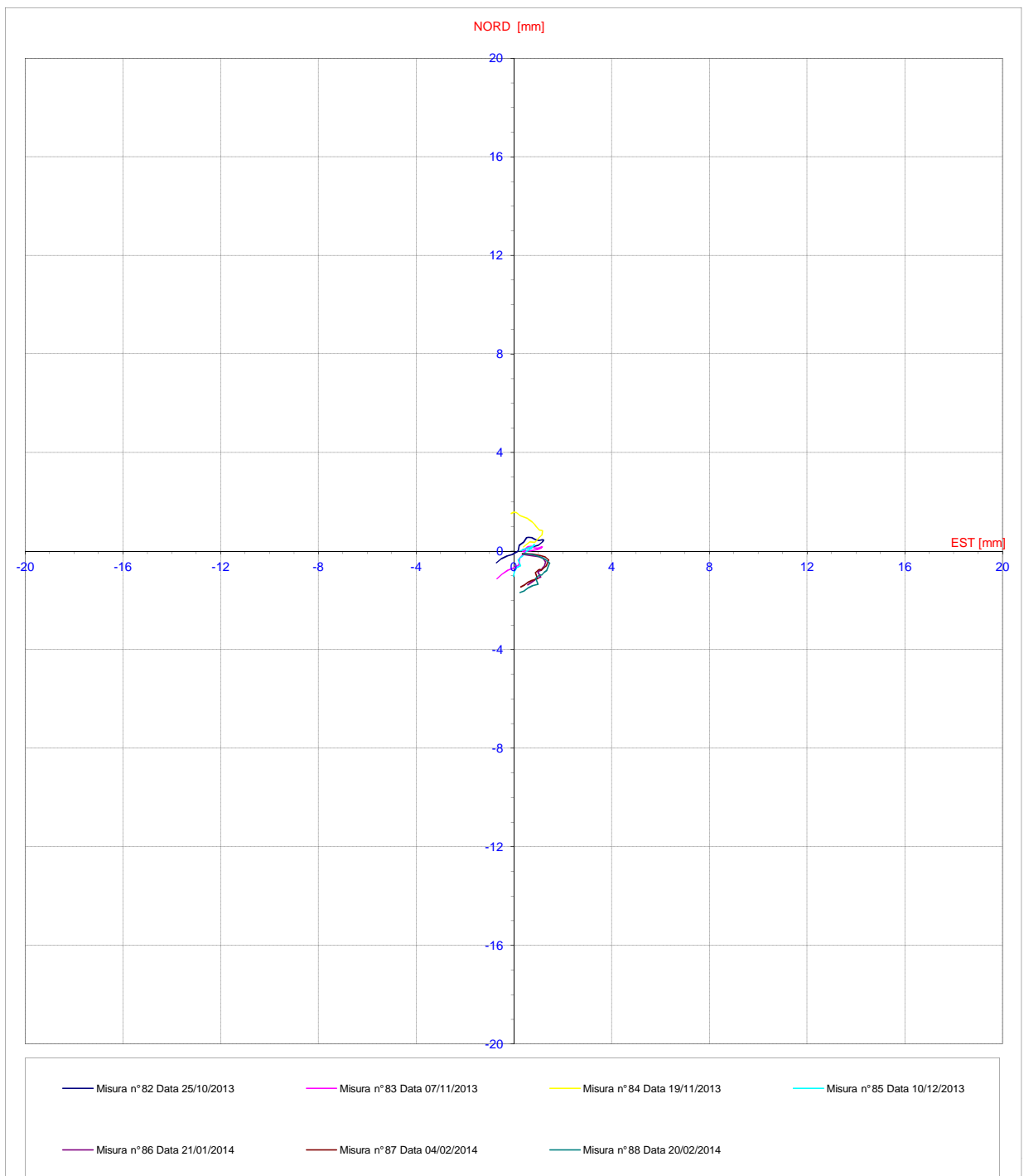
Spostamenti Differenziali Integrali Azimut



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**

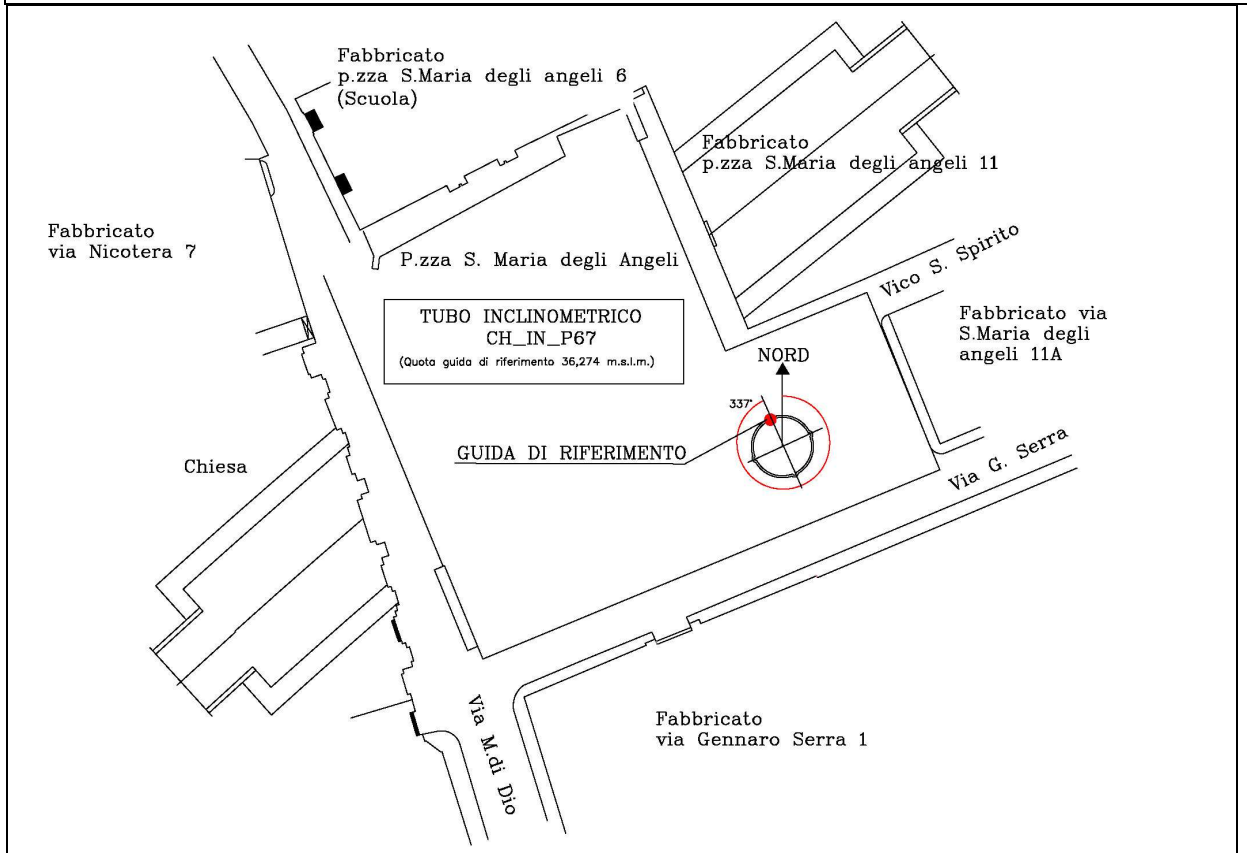
Ultima Misura **88** in data **20/02/2014 10.03**

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 **140** in data **20/02/2014 10.12**

SPOSTAMENTI LOCALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
35,8	-0,377	-0,087	0,387	257,013
34,8	-0,410	-0,033	0,411	265,412
33,8	-0,392	-0,030	0,393	265,592
32,8	-0,372	0,100	0,385	285,040
31,8	-0,116	0,154	0,193	323,115
30,8	-0,321	-0,050	0,324	261,138
29,8	-0,174	0,293	0,341	329,343
28,8	-0,300	-0,012	0,300	267,712
27,8	0,056	0,156	0,165	19,706
26,8	0,041	0,142	0,148	16,133
25,8	-0,034	0,622	0,623	356,906
24,8	-0,020	0,443	0,443	357,379
23,8	0,253	0,258	0,361	44,491
22,8	0,298	0,279	0,408	46,947
21,8	0,134	-0,392	0,414	161,197
20,8	0,332	0,126	0,355	69,205
19,8	0,096	0,297	0,312	17,890
18,8	0,147	0,180	0,233	39,174
17,8	-0,060	0,024	0,065	291,913
16,8	-0,149	0,060	0,161	291,859
15,8	-0,222	0,076	0,234	288,966
14,8	-0,136	0,020	0,137	278,234
13,8	-0,105	0,064	0,123	301,368

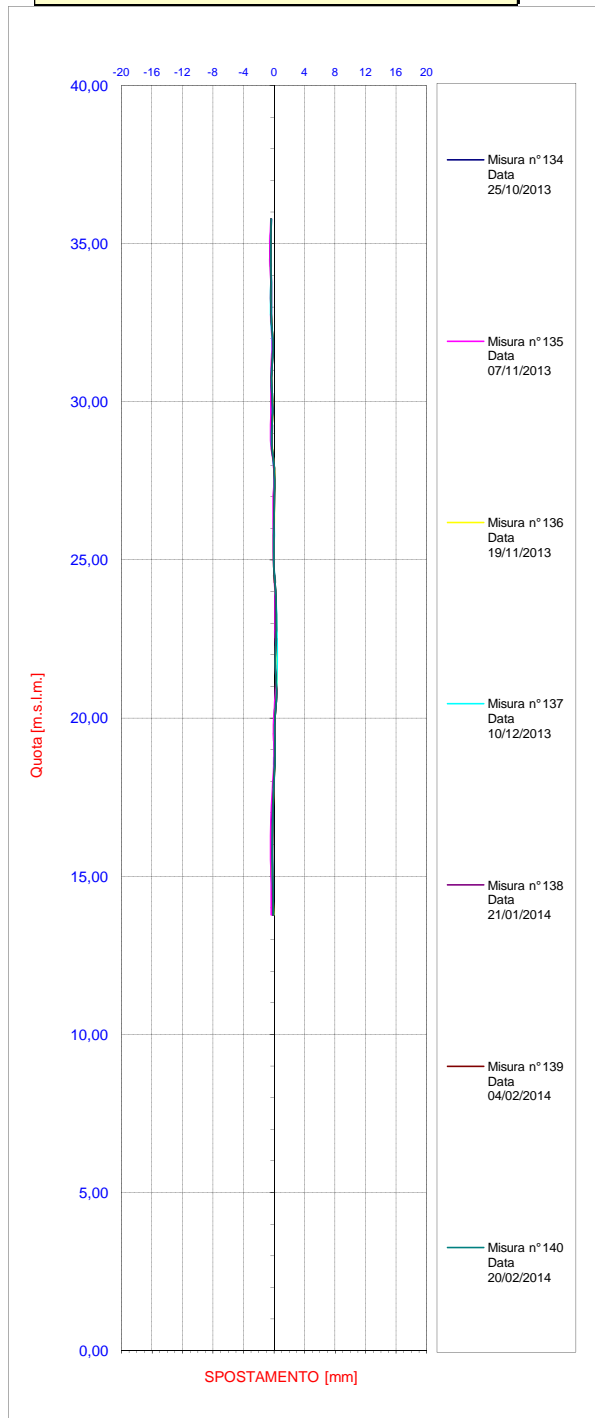
SPOSTAMENTI INTEGRALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
35,8	-1,829	2,688	3,252	325,767
34,8	-1,452	2,775	3,132	332,375
33,8	-1,042	2,808	2,995	339,634
32,8	-0,650	2,838	2,912	347,093
31,8	-0,279	2,738	2,753	354,189
30,8	-0,163	2,584	2,589	356,395
29,8	0,158	2,634	2,639	3,427
28,8	0,331	2,341	2,364	8,059
27,8	0,631	2,353	2,436	15,022
26,8	0,576	2,197	2,271	14,681
25,8	0,535	2,055	2,124	14,580
24,8	0,568	1,434	1,542	21,622
23,8	0,589	0,991	1,152	30,708
22,8	0,336	0,733	0,806	24,585
21,8	0,037	0,454	0,456	4,662
20,8	-0,096	0,847	0,852	353,500
19,8	-0,429	0,721	0,838	329,258
18,8	-0,524	0,424	0,674	308,953
17,8	-0,671	0,244	0,714	289,948
16,8	-0,611	0,219	0,649	289,752
15,8	-0,462	0,160	0,489	289,060
14,8	-0,240	0,083	0,254	289,147
13,8	-0,105	0,064	0,123	301,368



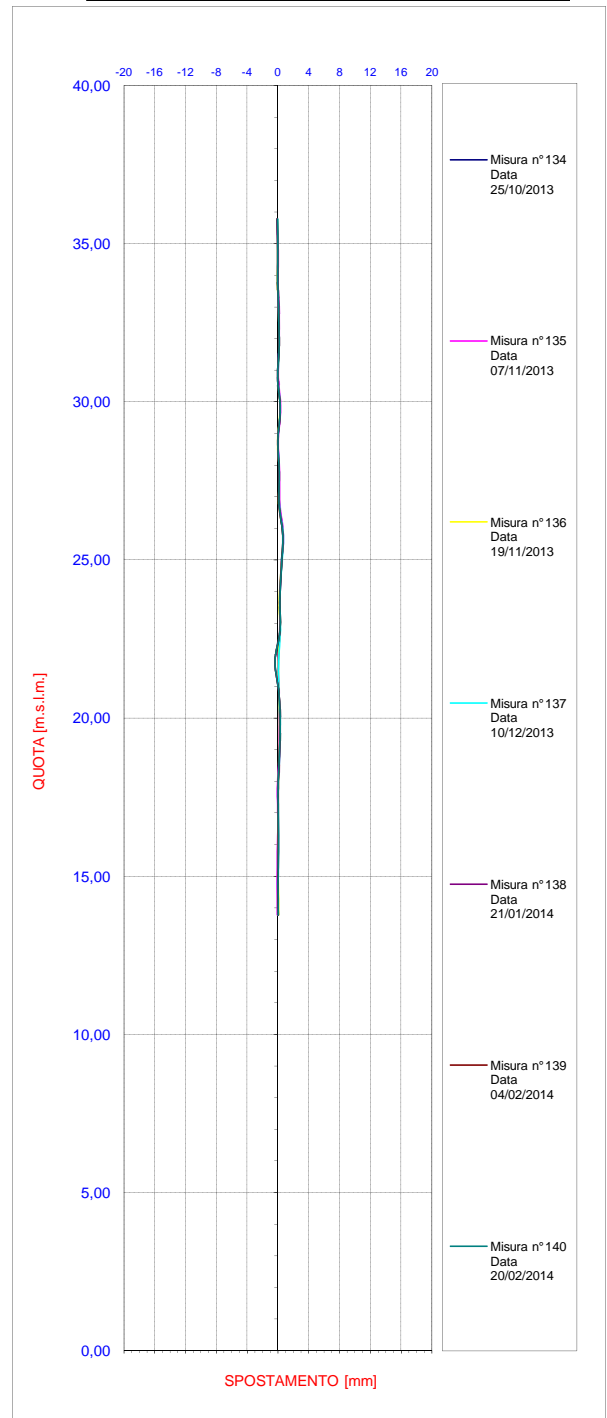
Ubicazione **STAZIONE CHIAIA**  
 Tipo Strumento **Tubo inclinometrico**  
 Nome tubo **CH\_IN\_P67**  
 Azimut di riferimento **337**  
 Quota guida rif. (m.s.l.m.) **36,274**  
 Data lettura di zero **25/11/2009**  
 Data posa in opera **18/11/2009**

Ultima Misura **140** in data **20/02/2014 10.12**

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

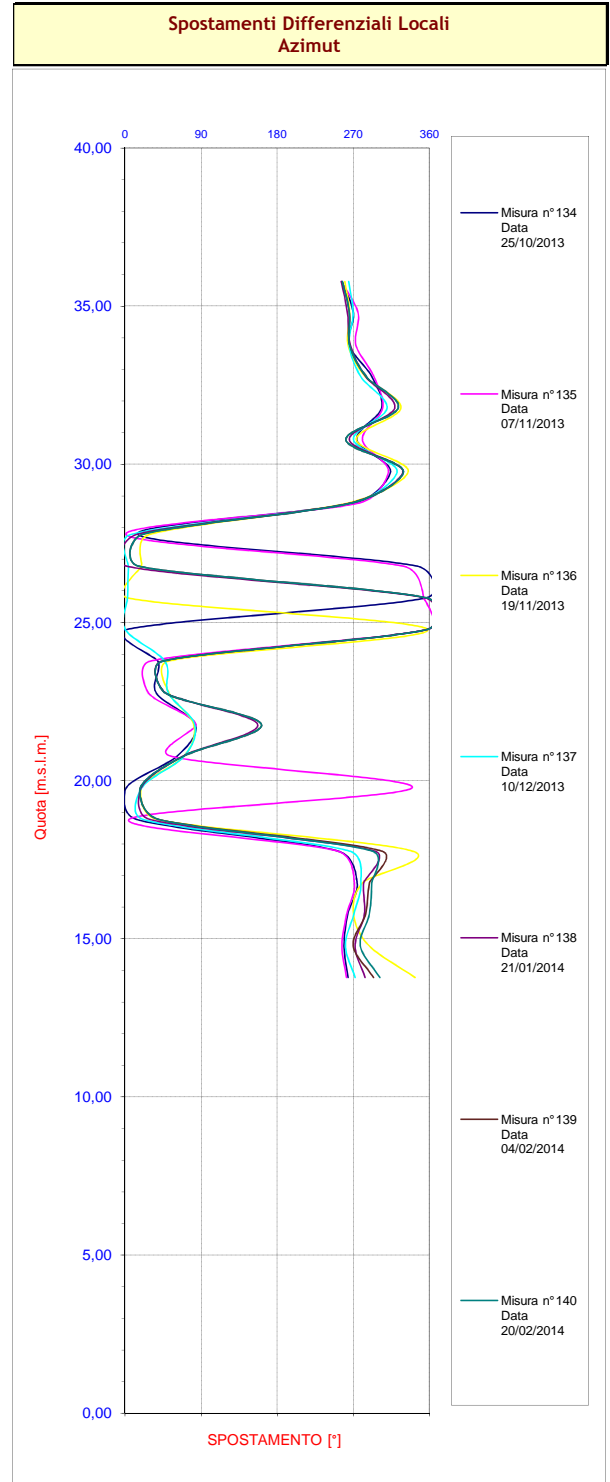
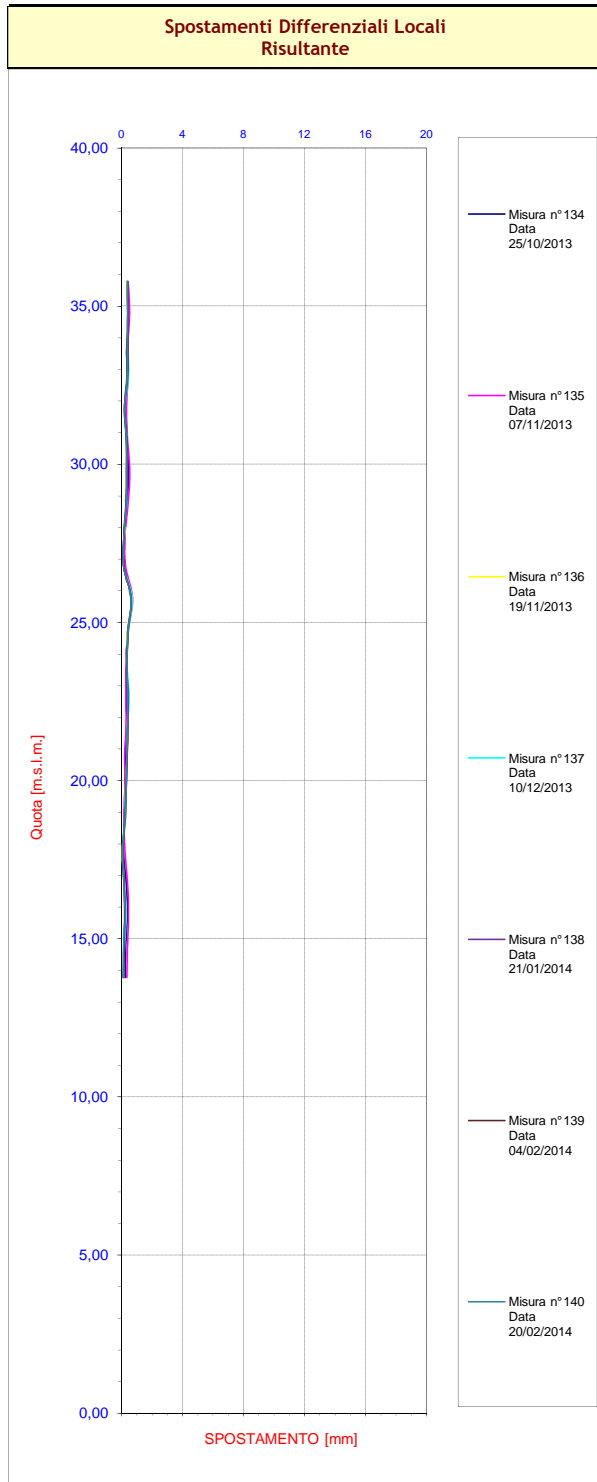


**Spostamenti Differenziali Locali  
SUD - (valori negativi) / NORD + (valori positivi)**



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**

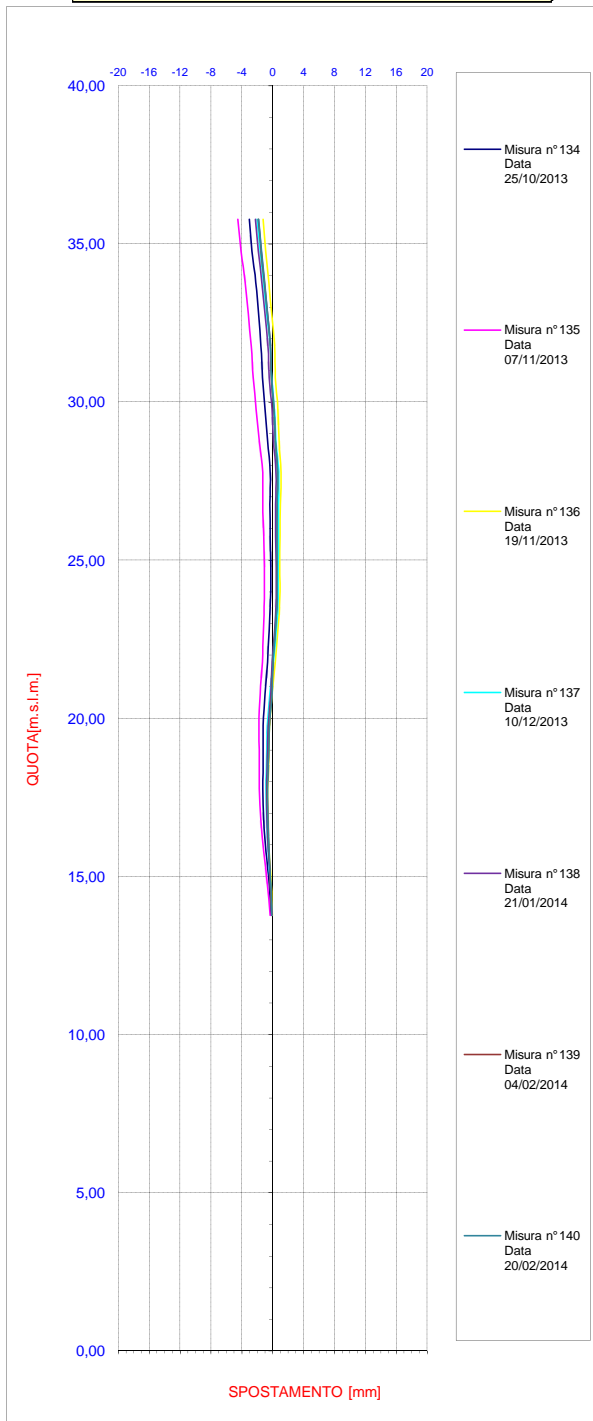
Ultima Misura **140** in data **20/02/2014 10.12**



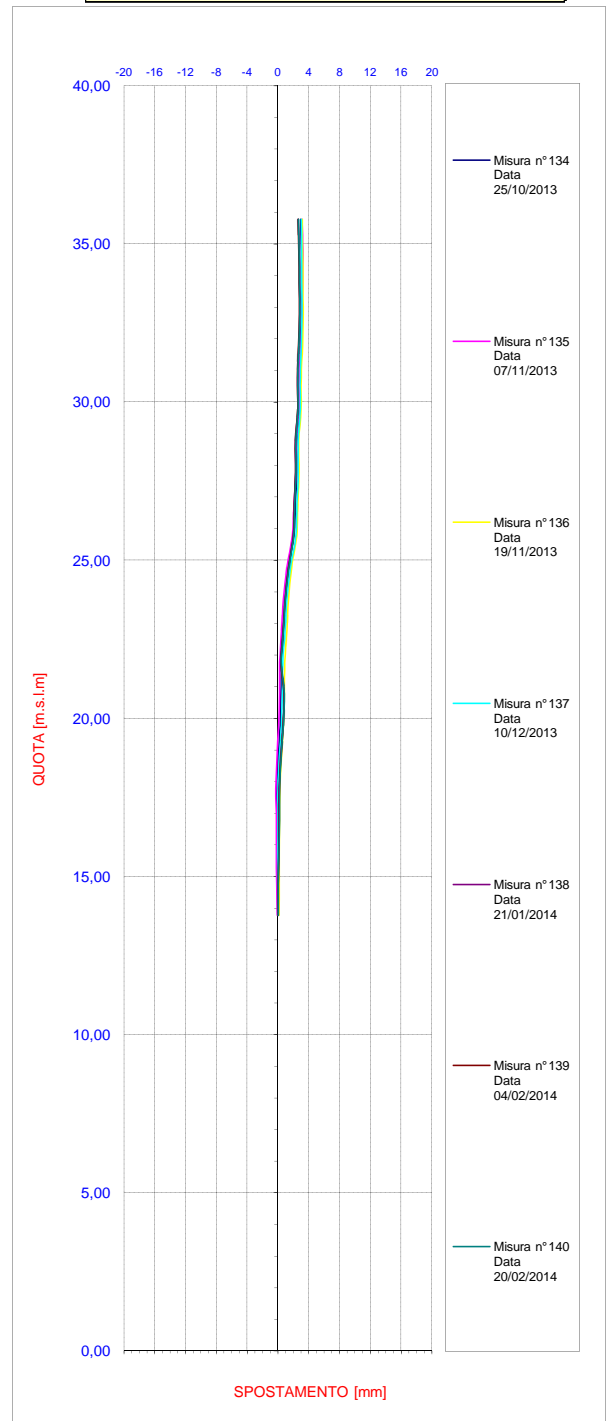
Ubicazione **STAZIONE CHIAIA**  
 Tipo Strumento **Tubo inclinometrico**  
 Nome tubo **CH\_IN\_P67**  
 Azimut di riferimento **337**  
 Quota guida rif. (m.s.l.m.) **36,274**  
 Data lettura di zero **25/11/2009**  
 Data posa in opera **18/11/2009**

Ultima Misura **140** in data **20/02/2014 10.12**

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



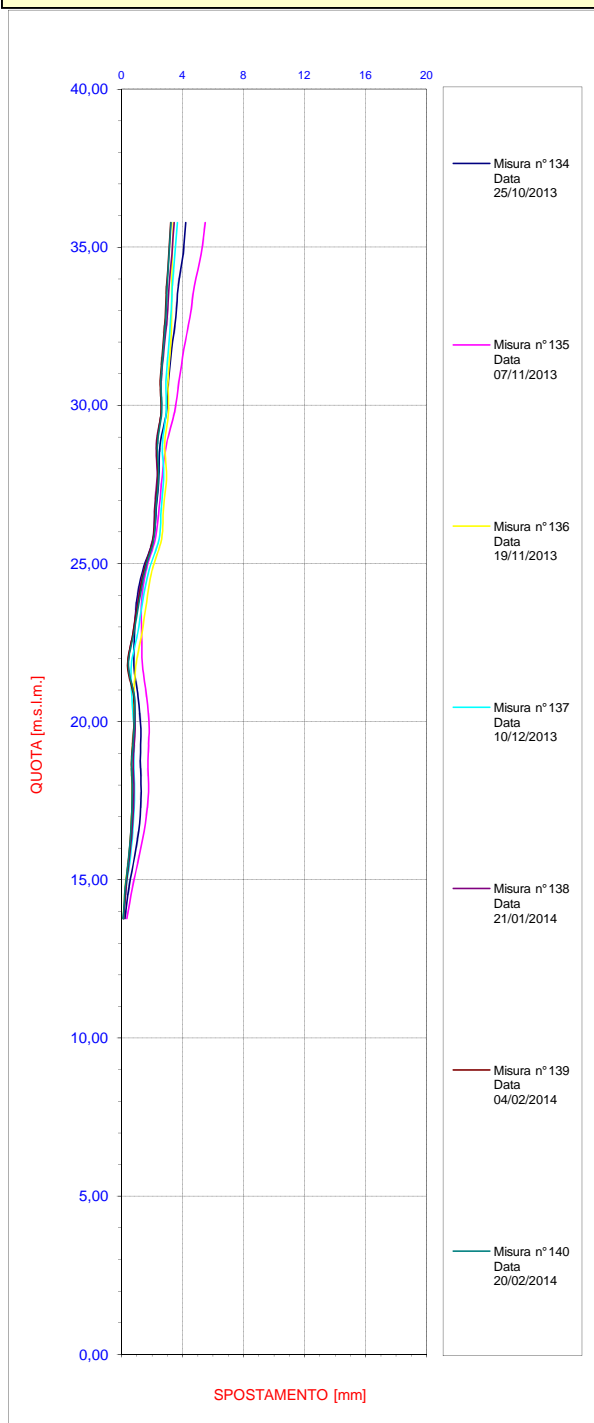
Spostamenti Differenziali Integrali  
SUD - (valori negativi) / NORD + (valori positivi)



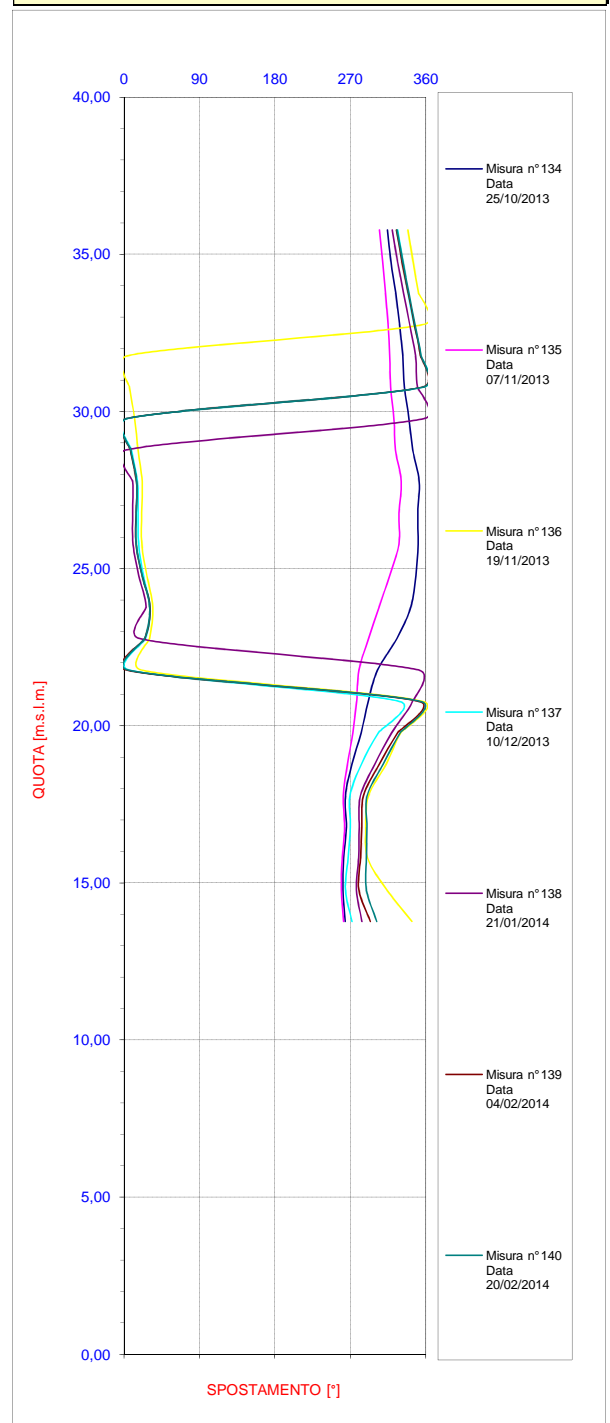
Ubicazione **STAZIONE CHIAIA**  
 Tipo Strumento **Tubo inclinometrico**  
 Nome tubo **CH\_IN\_P67**  
 Azimut di riferimento **337**  
 Quota guida rif. (m.s.l.m.) **36,274**  
 Data lettura di zero **25/11/2009**  
 Data posa in opera **18/11/2009**

Ultima Misura **140** in data **20/02/2014 10.12**

Spostamenti Differenziali Integrali Risultante



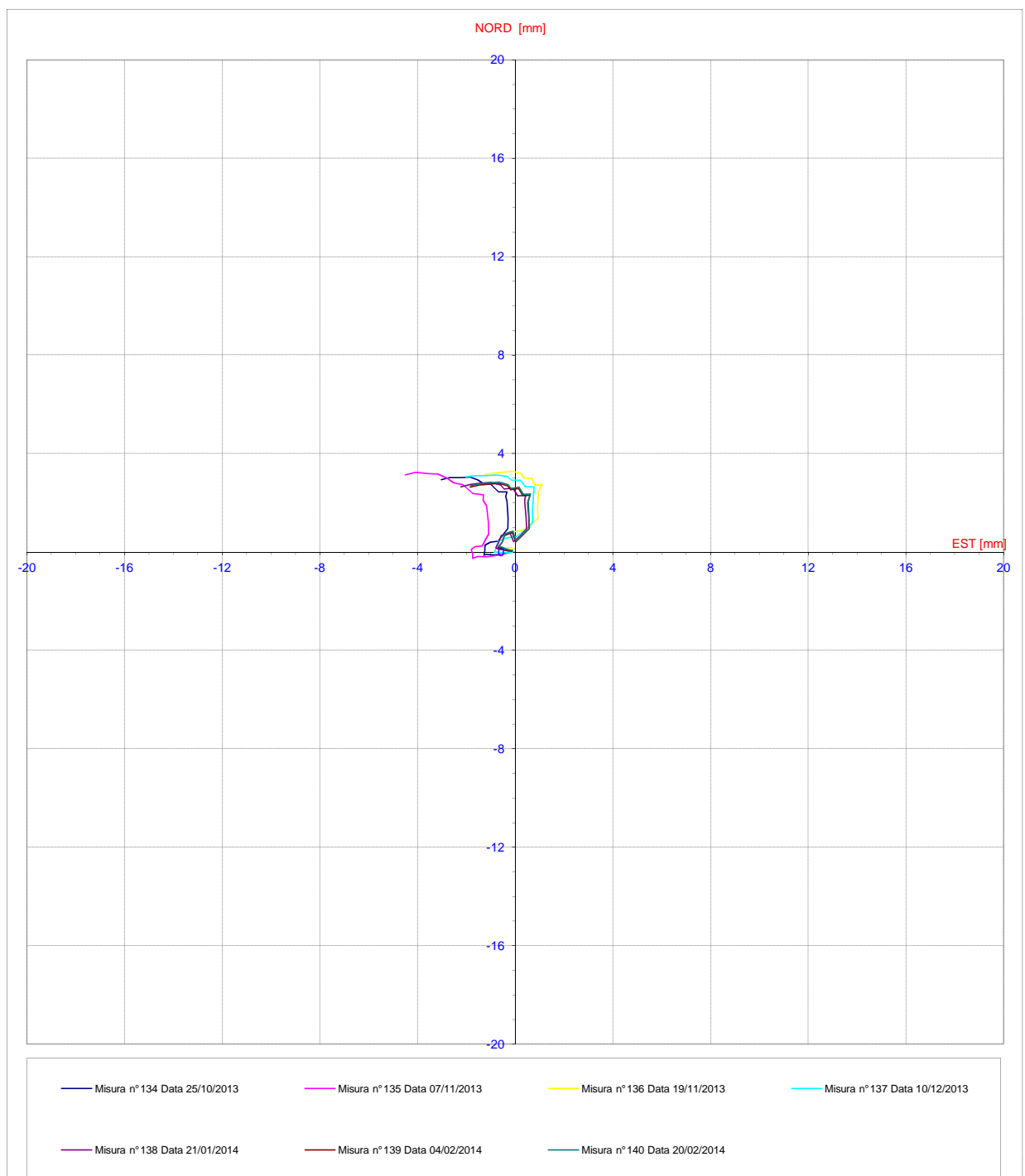
Spostamenti Differenziali Integrali Azimut

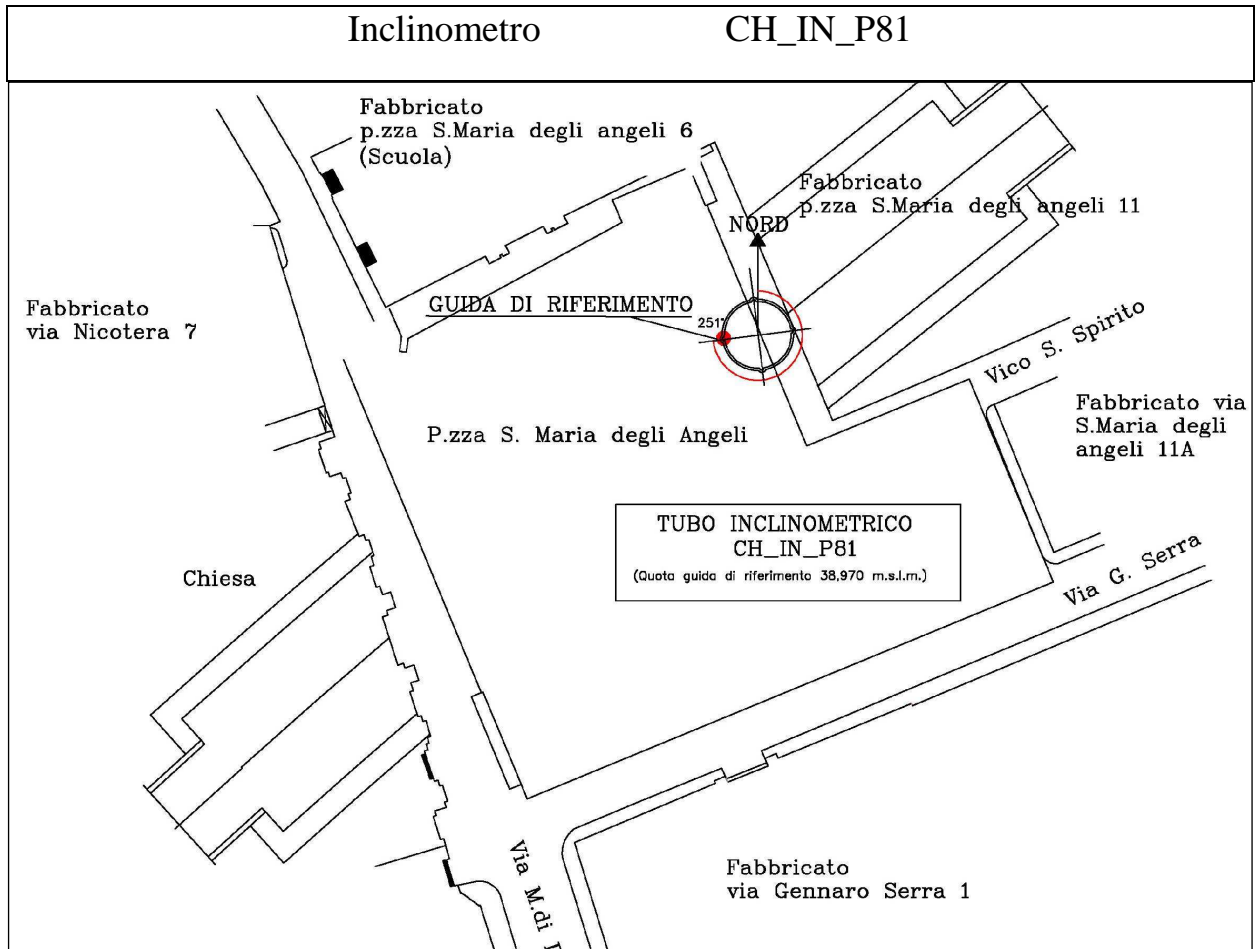


Ubicazione **STAZIONE CHIAIA**  
 Tipo Strumento **Tubo inclinometrico**  
 Nome tubo **CH\_IN\_P67**  
 Azimut di riferimento **337**  
 Quota guida rif. (m.s.l.m.) **36,274**  
 Data lettura di zero **25/11/2009**  
 Data posa in opera **18/11/2009**

Ultima Misura **140** in data **20/02/2014 10.12**

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>

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 **87** in data **20/02/2014 10.22**

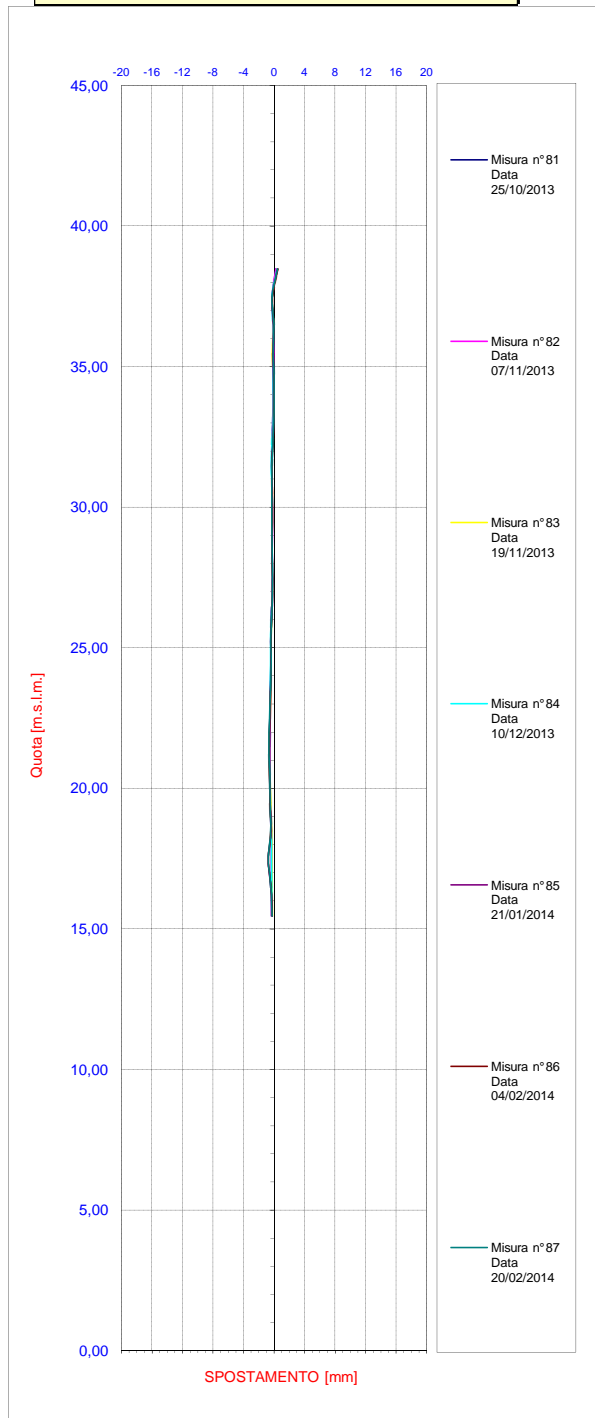
SPOSTAMENTI LOCALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
38,5	0,482	-0,399	0,626	129,619
37,5	-0,239	-0,322	0,401	216,569
36,5	0,003	0,006	0,007	26,782
35,5	-0,090	0,225	0,242	338,078
34,5	0,025	0,146	0,148	9,523
33,5	0,002	0,097	0,097	0,969
32,5	-0,103	0,099	0,143	313,757
31,5	-0,282	0,283	0,400	315,100
30,5	-0,260	0,031	0,262	276,791
29,5	-0,280	0,039	0,282	277,917
28,5	-0,248	-0,046	0,252	259,487
27,5	-0,175	0,018	0,176	275,839
26,5	-0,233	-0,017	0,234	265,879
25,5	-0,402	-0,156	0,431	248,818
24,5	-0,349	-0,111	0,366	252,308
23,5	-0,441	-0,119	0,457	254,853
22,5	-0,585	-0,198	0,618	251,277
21,5	-0,649	-0,080	0,654	262,971
20,5	-0,531	-0,238	0,582	245,900
19,5	-0,503	-0,258	0,565	242,856
18,5	-0,423	-0,321	0,531	232,761
17,5	-0,728	-0,210	0,757	253,888
16,5	-0,384	-0,112	0,400	253,713
15,5	-0,242	-0,106	0,264	246,424

SPOSTAMENTI INTEGRALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
38,5	-6,635	-1,749	6,862	255,236
37,5	-7,117	-1,350	7,244	259,263
36,5	-6,878	-1,028	6,955	261,504
35,5	-6,882	-1,034	6,959	261,455
34,5	-6,791	-1,259	6,907	259,501
33,5	-6,816	-1,405	6,959	258,354
32,5	-6,818	-1,502	6,981	257,574
31,5	-6,714	-1,601	6,902	256,585
30,5	-6,432	-1,885	6,702	253,667
29,5	-6,172	-1,916	6,462	252,755
28,5	-5,892	-1,955	6,208	251,648
27,5	-5,644	-1,909	5,958	251,317
26,5	-5,470	-1,927	5,799	250,597
25,5	-5,237	-1,910	5,574	249,964
24,5	-4,835	-1,754	5,143	250,060
23,5	-4,486	-1,643	4,777	249,888
22,5	-4,045	-1,523	4,322	249,364
21,5	-3,460	-1,325	3,705	249,045
20,5	-2,811	-1,245	3,074	246,110
19,5	-2,279	-1,007	2,492	246,159
18,5	-1,776	-0,749	1,928	247,127
17,5	-1,354	-0,428	1,420	252,453
16,5	-0,626	-0,218	0,663	250,812
15,5	-0,242	-0,106	0,264	246,424

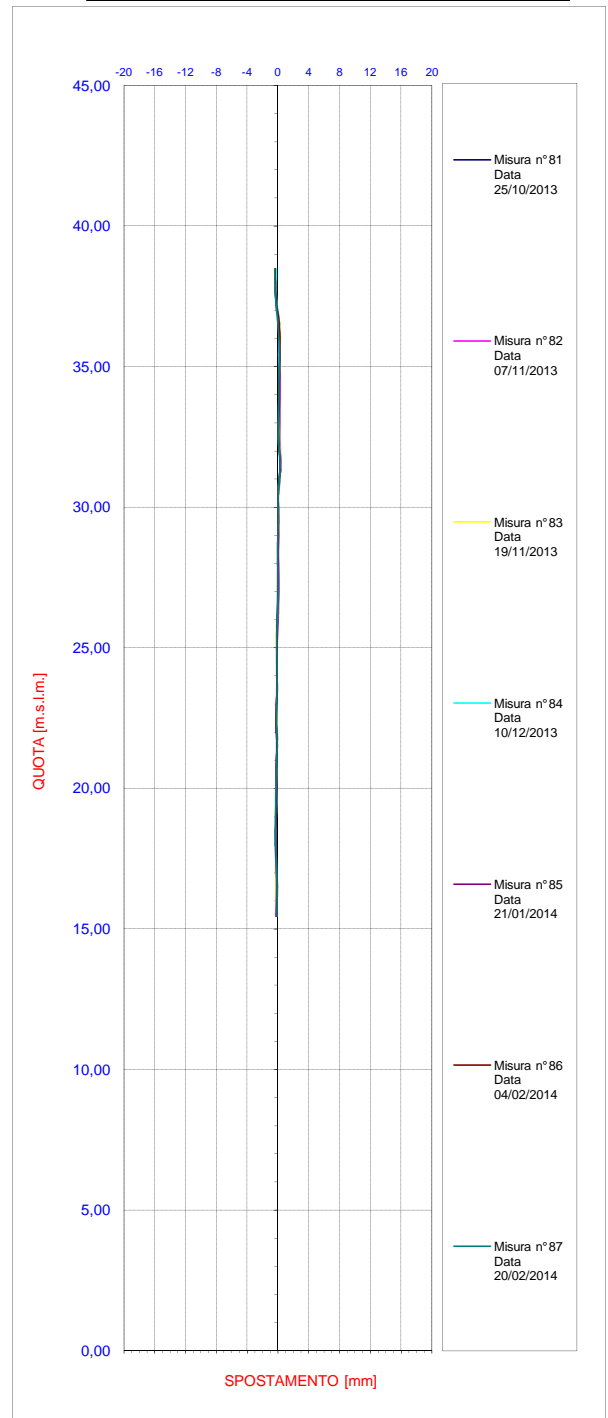
Ubicazione **STAZIONE CHIAIA**  
 Tipo Strumento **Tubo inclinometrico**  
 Nome tubo **CH\_IN\_P81**  
 Azimut di riferimento **251**  
 Quota guida rif. (m.s.l.m.) **38,97**  
 Data lettura di zero **21/01/2011**  
 Data posa in opera **21/12/2010**

Ultima Misura **87** in data **20/02/2014 10.22**

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



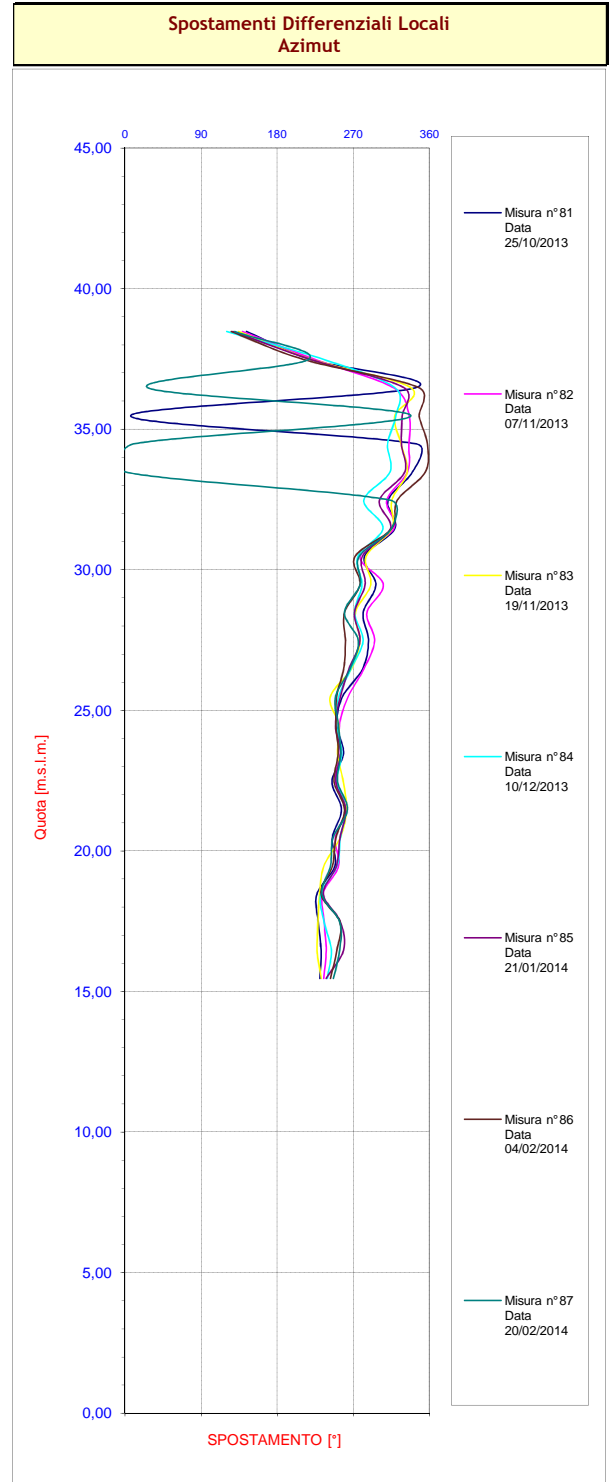
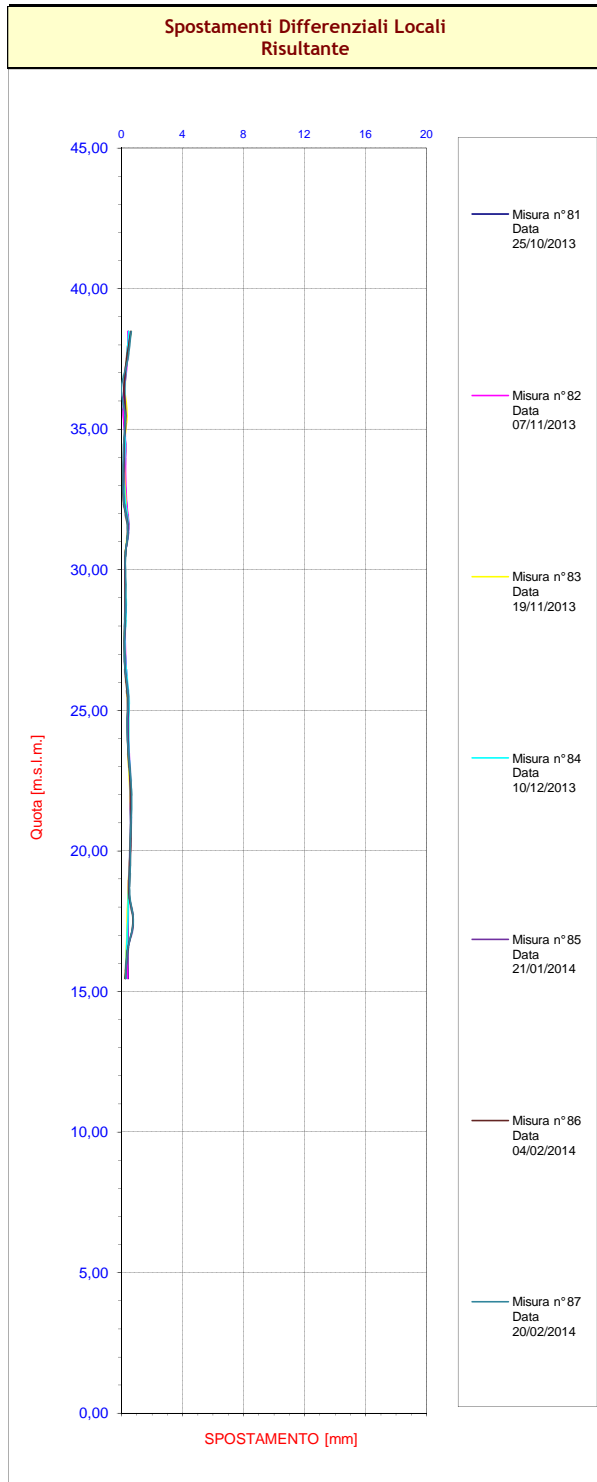
**Spostamenti Differenziali Locali  
SUD - (valori negativi) / NORD + (valori positivi)**





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**

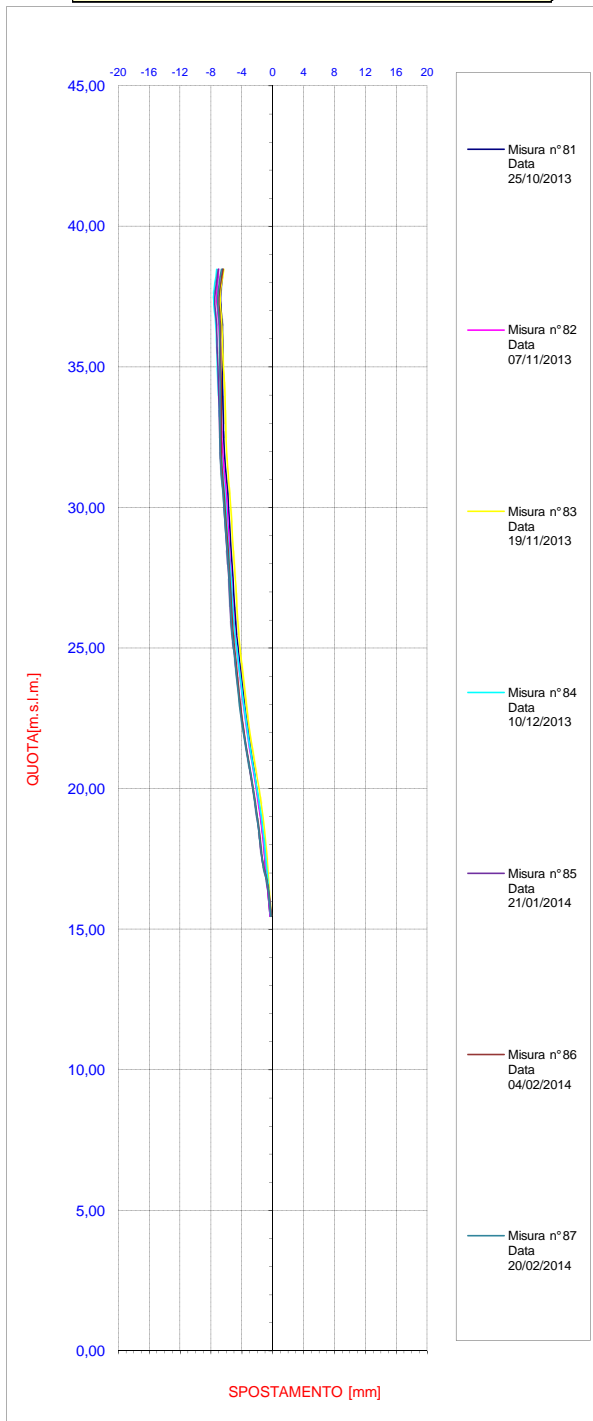
Ultima Misura **87** in data **20/02/2014 10.22**



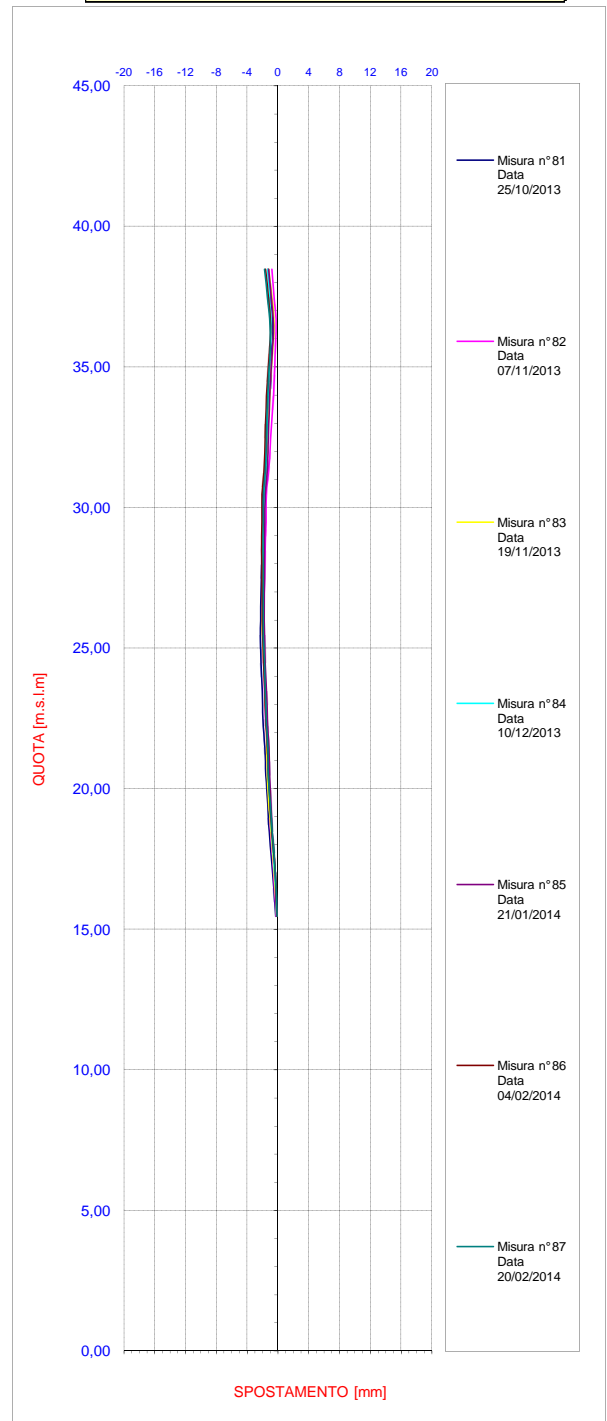
Ubicazione **STAZIONE CHIAIA**  
Tipo Strumento **Tubo inclinometrico**  
Nome tubo **CH\_IN\_P81**  
Azimut di riferimento **251**  
Quota guida rif. (m.s.l.m.) **38,97**  
Data lettura di zero **21/01/2011**  
Data posa in opera **21/12/2010**

Ultima Misura **87** in data **20/02/2014 10.22**

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



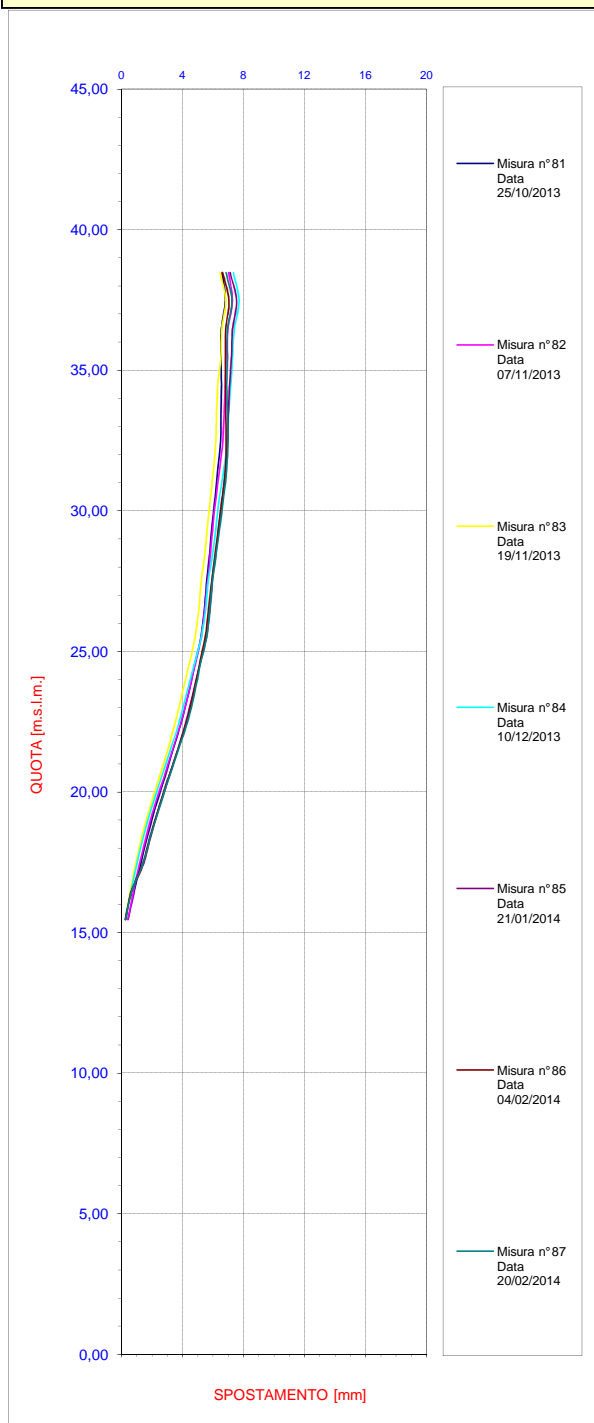
Spostamenti Differenziali Integrali  
SUD - (valori negativi) / NORD + (valori positivi)



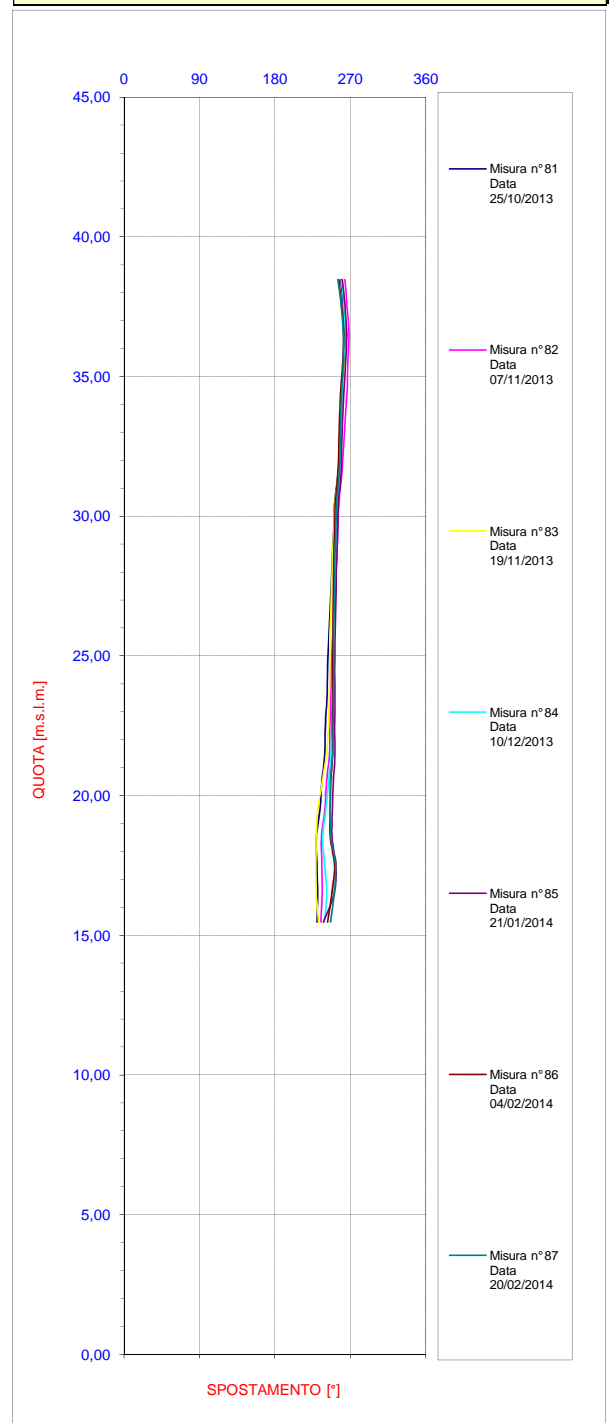
Ubicazione **STAZIONE CHIAIA**  
 Tipo Strumento **Tubo inclinometrico**  
 Nome tubo **CH\_IN\_P81**  
 Azimut di riferimento **251**  
 Quota guida rif. (m.s.l.m.) **38,97**  
 Data lettura di zero **21/01/2011**  
 Data posa in opera **21/12/2010**

Ultima Misura **87** in data **20/02/2014 10.22**

Spostamenti Differenziali Integrali Risultante



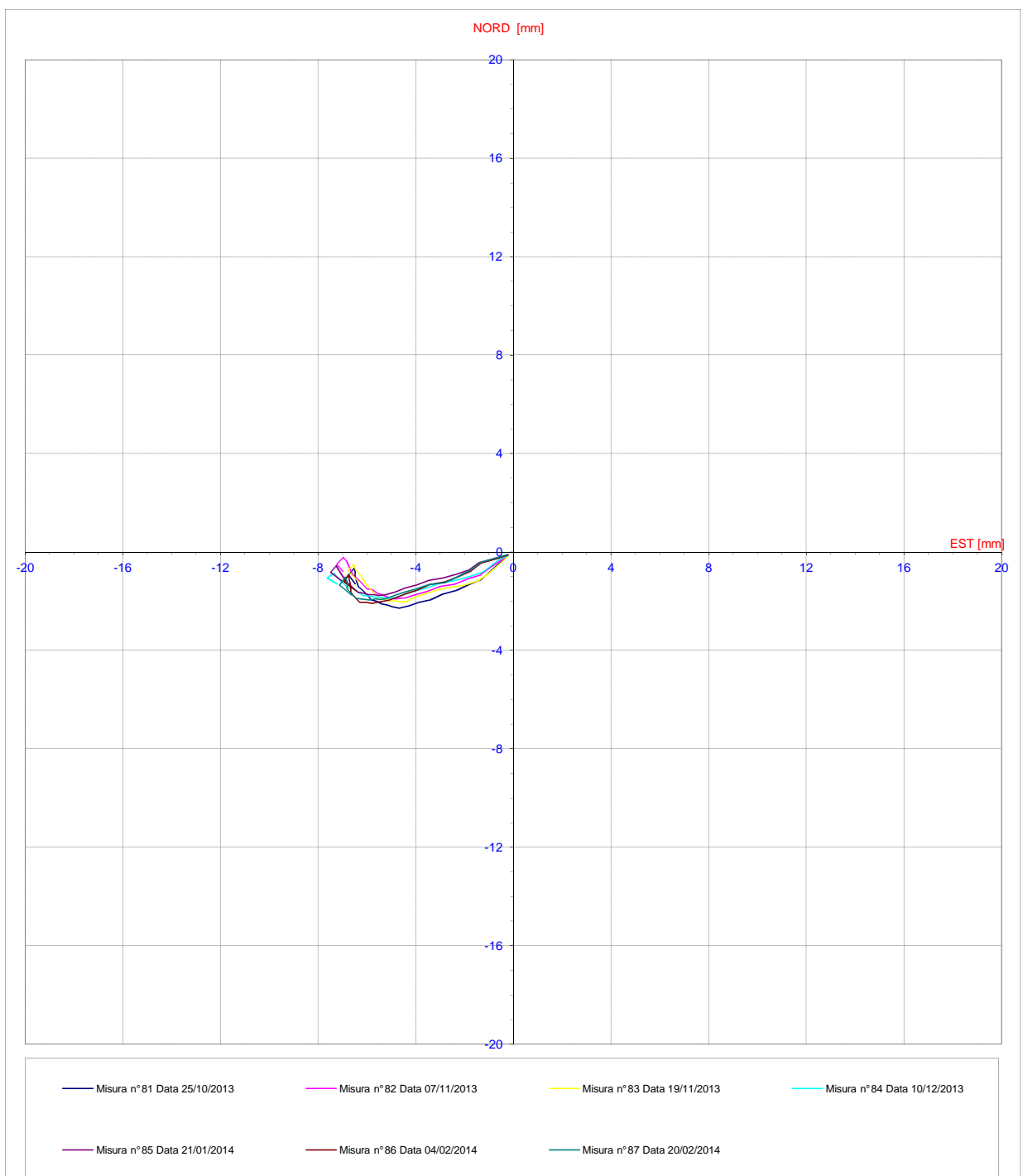
Spostamenti Differenziali Integrali Azimut




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 **87** in data **20/02/2014 10.22**

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 129 Data: 28/02/14 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><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO</i></p> <p><i>REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C 129 Data: 28/02/14 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><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO</i></p> <p><i>REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C 129 Data: 28/02/14 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 129 Data: 28/02/14 Metropolitana di Napoli A.T.I. LM6 TreEsse Engineering S.r.l.</p>
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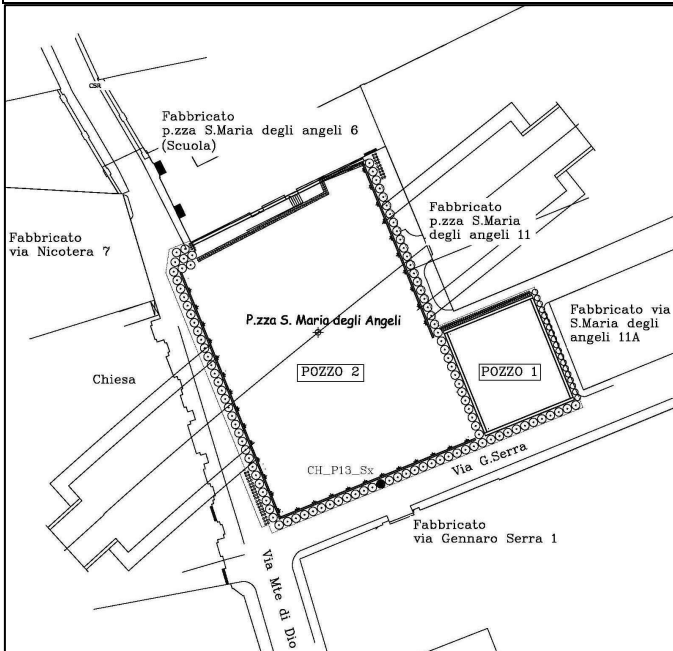
Tabella Puntoni PU1 e PU2

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			

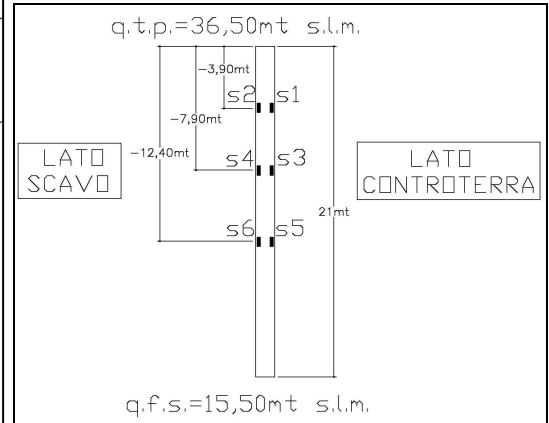


Pannello strumentato

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

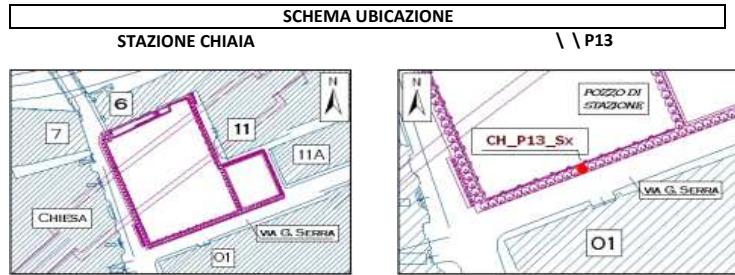
Data lettura di zero 03/09/2009

Ultima Misura 170 in data 25/02/2014

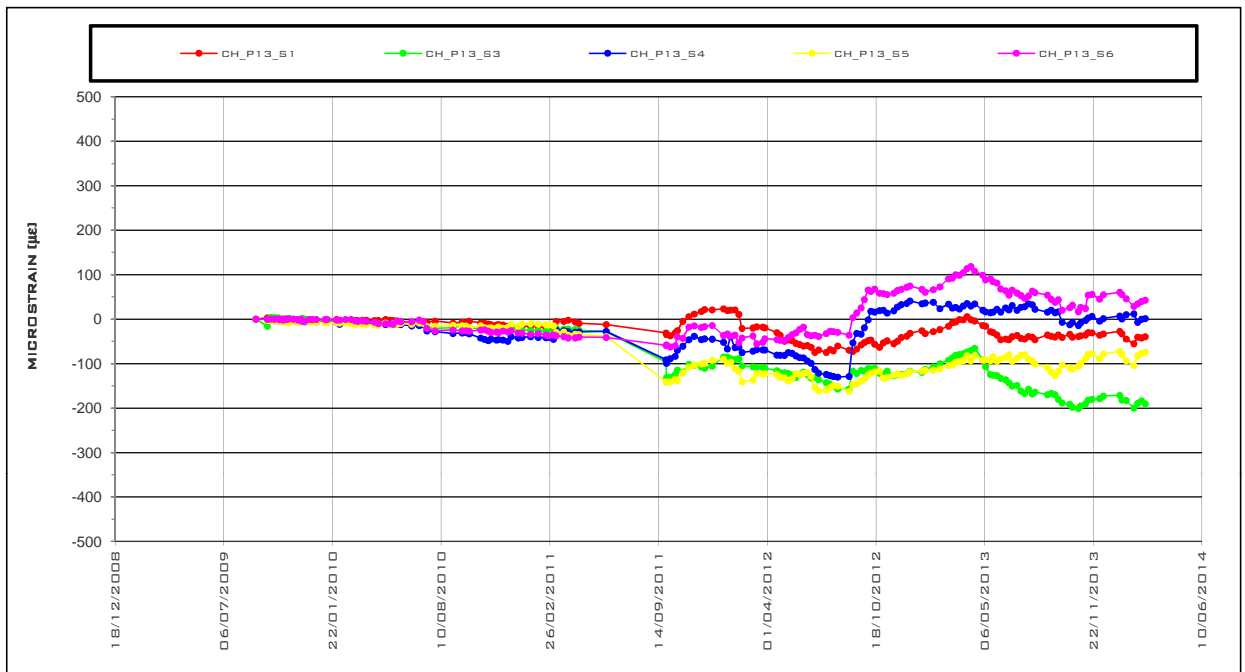
Letture n°	DATA	CH_P13_S1		CH_P13_S3		CH_P13_S4		CH_P13_S5		CH_P13_S6	
		Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]
118	19/11/12 15.00	-54,9	18,2	-127,2	17,0	19,1	24,1	-125,6	16,1	58,5	24,6
119	26/11/12 11.00	-49,2	18,0	-124,0	16,6	27,6	23,8	-122,8	16,0	64,6	24,1
120	3/12/12 10.00	-41,1	18,0	-123,6	16,3	32,9	23,9	-126,1	15,4	67,4	24,0
121	13/12/12 10.30	-38,2	17,9	-122,0	16,1	35,7	23,8	-123,2	15,3	71,9	23,7
122	19/12/12 10.00	-31,7	18,1	-116,7	16,2	41,0	23,9	-117,9	15,4	74,7	23,6
123	10/11/13 10.00	-25,7	17,6	-119,5	16,3	34,9	22,4	-116,7	15,5	67,4	22,0
124	16/11/13 10.45	-32,2	17,4	-112,6	16,2	36,5	22,2	-115,1	15,3	60,9	21,8
125	31/1/13 9.30	-27,7	17,1	-106,9	16,0	38,1	22,0	-114,7	15,0	66,6	21,6
126	12/2/13 11.30	-23,2	16,8	-100,0	15,9	23,9	21,5	-111,4	14,6	72,7	21,1
127	28/2/13 11.00	-15,5	16,1	-92,3	15,2	34,1	21,0	-104,1	14,2	90,9	20,6
128	7/3/13 11.00	-7,8	15,4	-86,6	15,0	25,1	20,6	-102,5	14,0	92,6	20,4
129	13/3/13 11.30	-6,2	15,2	-80,9	14,8	26,7	20,4	-96,8	13,8	99,9	20,0
130	20/3/13 11.00	-0,5	15,0	-79,3	14,6	23,1	20,1	-95,2	13,6	99,1	19,6
131	27/3/13 12.00	-1,3	14,6	-77,7	14,4	30,0	20,0	-93,6	13,4	104,7	19,4
132	3/4/13 11.30	6,0	14,2	-73,2	14,1	35,3	19,1	-82,2	13,0	114,1	19,5
133	10/4/13 11.50	-0,9	14,3	-70,4	14,0	30,0	19,0	-93,2	13,1	118,5	19,2
134	17/4/13 11.00	-3,8	14,4	-65,1	14,1	34,4	18,7	-82,2	13,0	108,0	19,0
135	2/5/13 10.00	-13,9	14,9	-91,5	14,6	20,6	18,9	-92,0	13,2	99,1	19,6
136	7/5/13 11.30	-15,5	15,1	-106,5	14,7	16,6	18,9	-90,3	13,0	88,5	19,4
137	16/5/13 11.00	-28,1	15,4	-124,4	14,9	14,9	19,1	-93,2	13,1	90,9	19,6
138	21/5/13 11.30	-29,7	15,6	-126,0	15,1	16,2	19,2	-83,8	13,2	84,4	19,4
139	28/5/13 10.40	-35,4	15,8	-126,4	15,4	22,7	19,4	-94,4	13,0	81,6	19,5
140	4/6/13 11.00	-46,0	15,6	-132,9	15,2	16,2	19,2	-89,1	13,1	68,2	19,4
141	13/6/13 10.00	-44,4	15,4	-135,8	15,3	25,5	19,3	-86,3	13,0	64,1	19,4
142	19/6/13 11.00	-46,0	15,6	-143,1	15,7	21,0	19,6	-79,8	13,2	54,4	19,6
143	25/6/13 10.30	-39,1	15,5	-150,0	15,8	30,8	19,4	-94,4	13,0	65,7	19,2
144	4/7/13 12.00	-36,2	15,4	-148,8	15,9	20,2	19,2	-87,9	13,2	58,8	19,3
145	11/7/13 11.00	-42,7	15,2	-161,4	15,2	26,7	19,4	-81,4	13,4	53,6	19,2
146	18/7/13 10.00	-44,4	15,4	-166,7	15,1	28,4	19,2	-79,8	13,2	47,1	19,0
147	25/7/13 10.30	-38,7	15,2	-157,3	15,2	34,9	19,4	-89,5	13,4	52,3	19,1
148	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
149	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
150	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
151	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
152	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
153	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
154	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
155	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
156	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
157	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
158	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
159	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
160	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
161	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
162	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
163	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
164	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
165	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
166	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
167	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
168	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
169	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
170	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



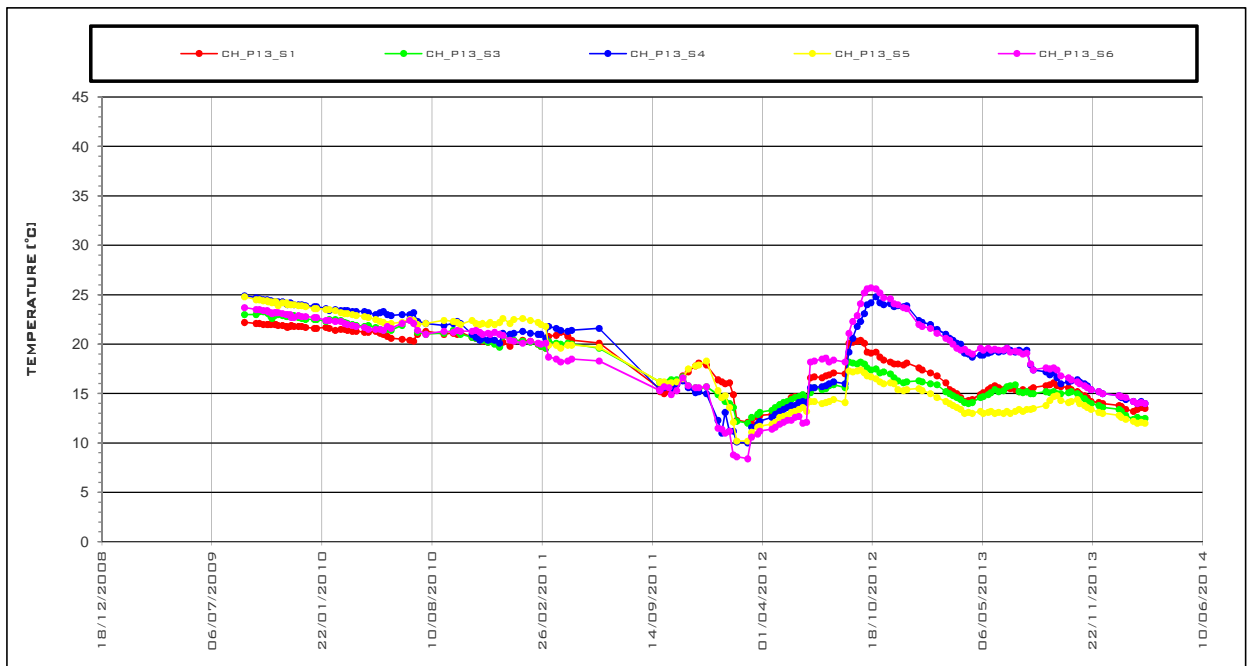
Ubicazione STAZIONE CHIAIA  
Opera \ \ P13  
Strumento Barretta Est. per Metallo  
Data posa in opera 03/09/2009  
Data lettura di zero 03/09/2009



**GRAFICO MICROSTRAIN**

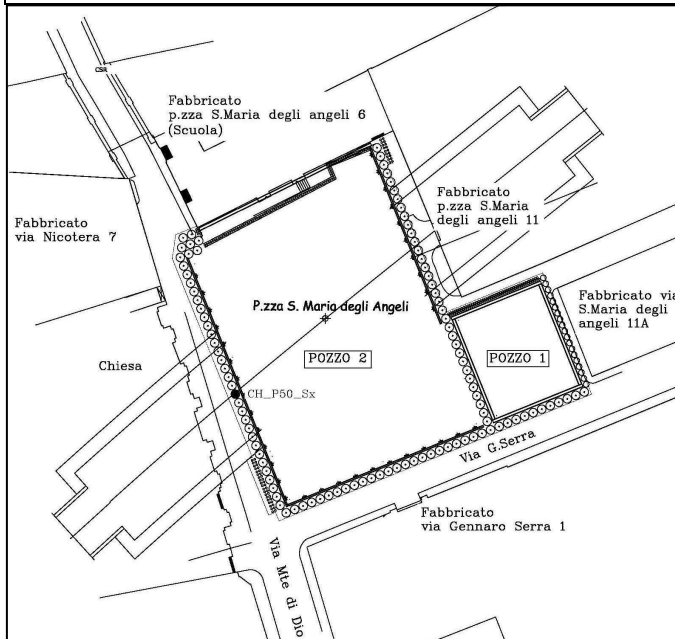


**GRAFICO TEMPERATURE**

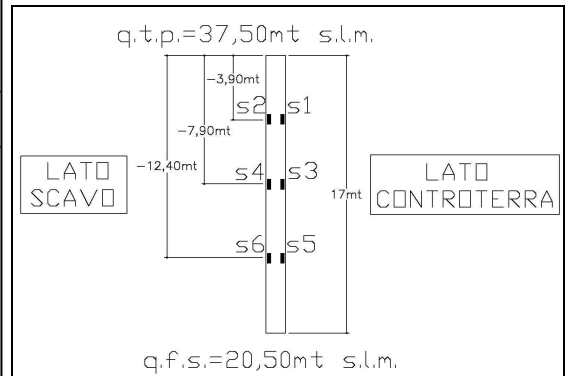


Pannello strumentato

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.


Ubicazione STAZIONE CHIAIA

Opera \ \ P50

Strumento Barretta Est. per Metallo

Data posa in opera 03/09/2009

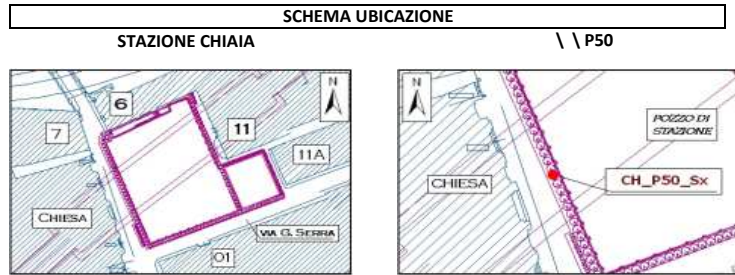
Data lettura di zero 03/09/2009

Ultima Misura 190 in data 25/02/2014

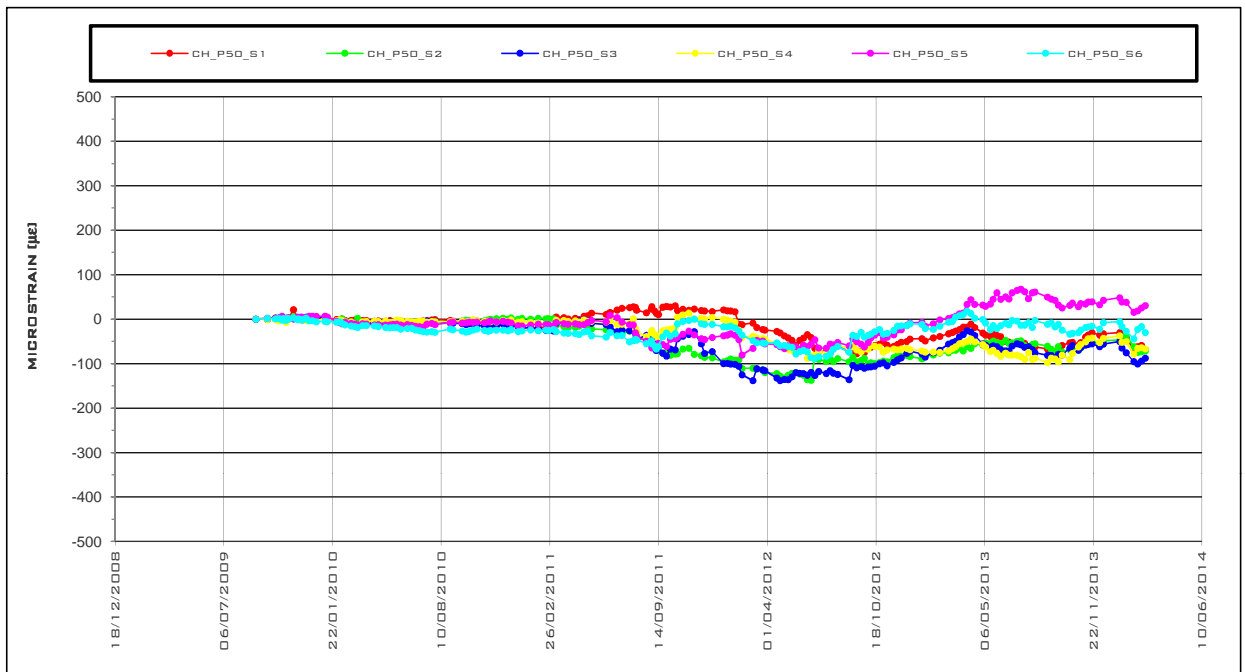
Letture n°	DATA	CH_P50_S1		CH_P50_S2		CH_P50_S3		CH_P50_S4		CH_P50_S5		CH_P50_S6	
		Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]
138	19/11/12 15.00	-61,0	18,1	-86,2	18,3	-96,8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



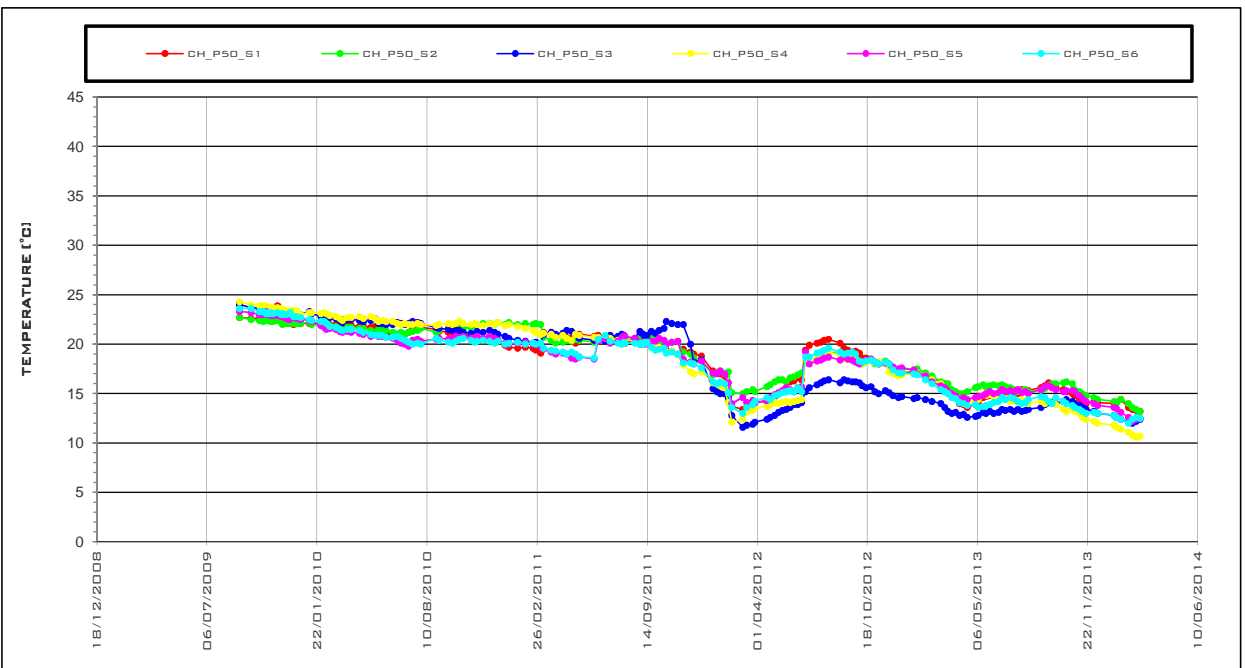
Ubicazione STAZIONE CHIAIA  
Opera \ \ P50  
Strumento Barretta Est. per Metallo  
Data posa in opera 03/09/2009  
Data lettura di zero 03/09/2009



**GRAFICO MICROSTRAIN**

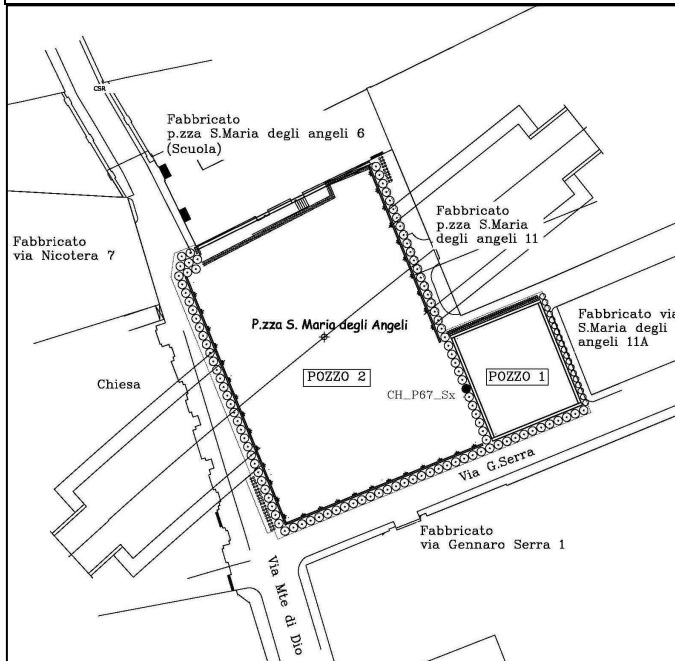


**GRAFICO TEMPERATURE**

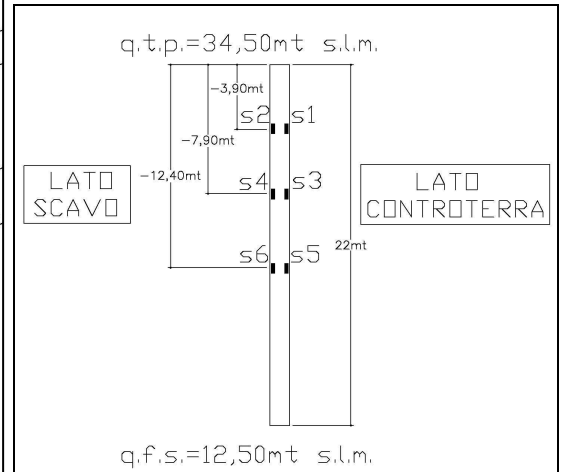


**Pannello strumentato**

**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

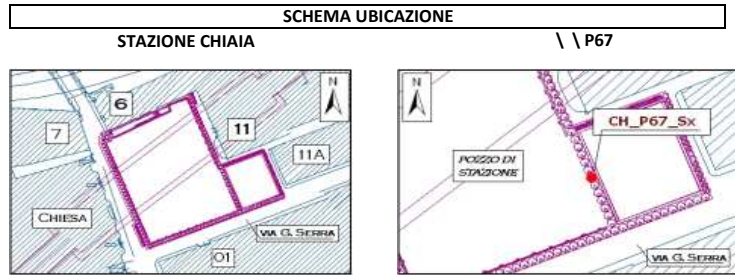
Ultima Misura 194 in data 25/02/2014

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

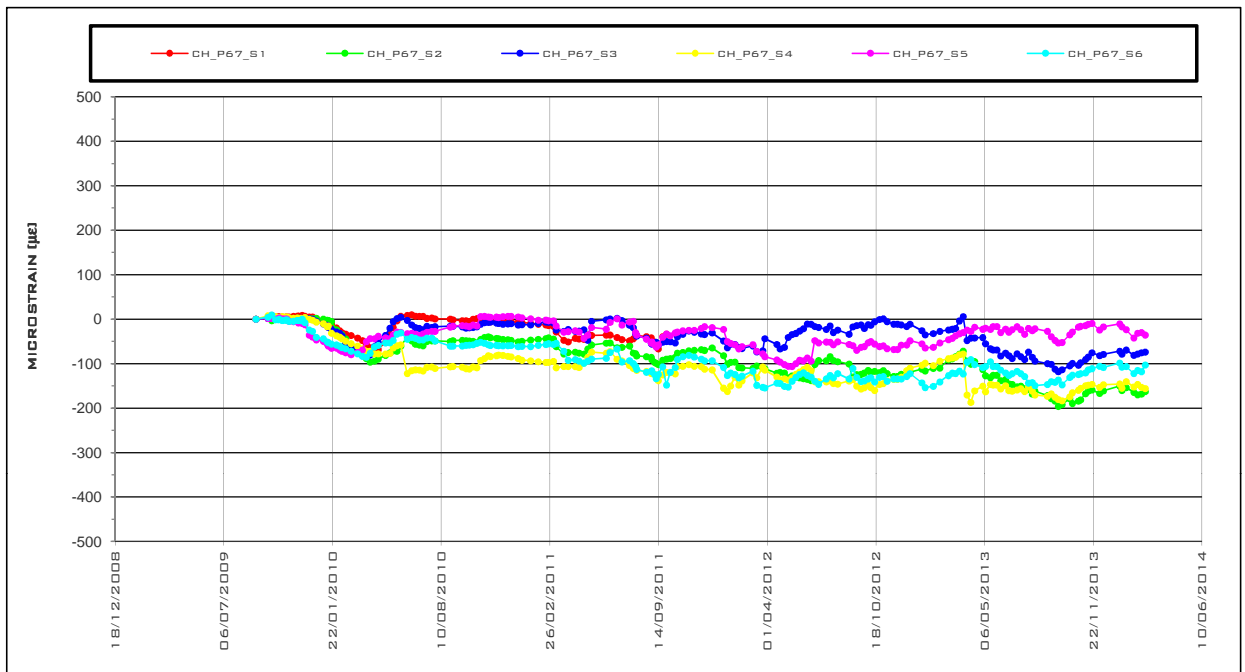




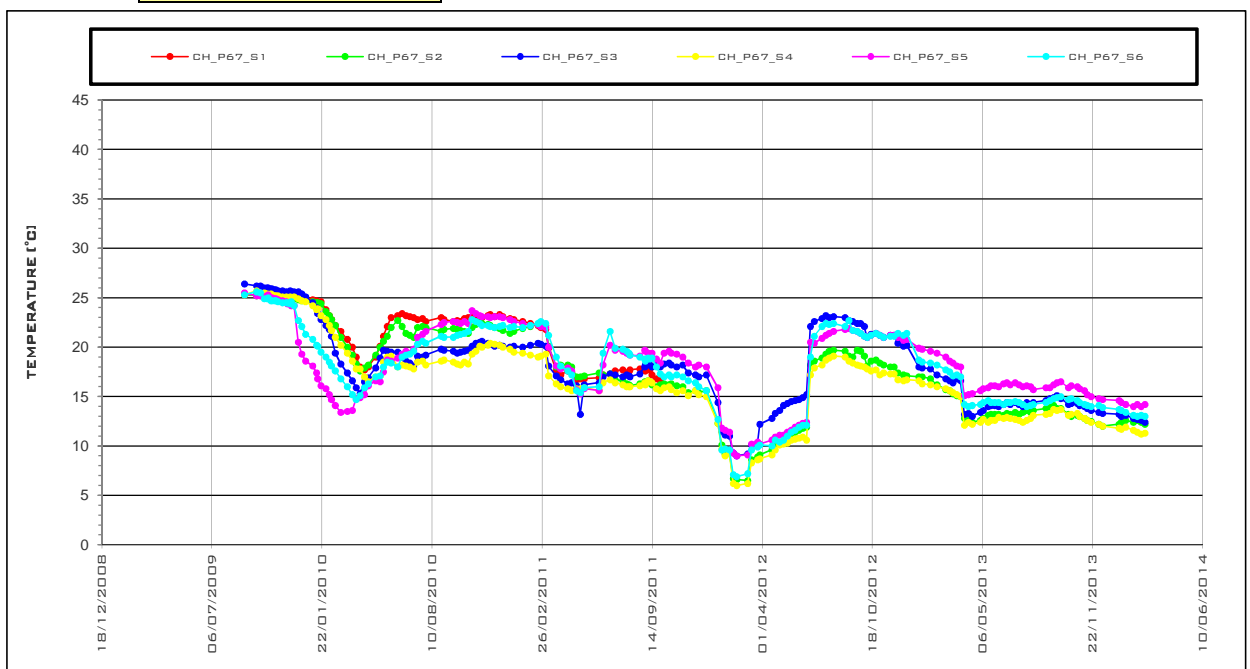
Ubicazione STAZIONE CHIAIA  
Opera \ \ P67  
Strumento Barretta Est. per Metallo  
Data posa in opera 03/09/2009  
Data lettura di zero 03/09/2009



**GRAFICO MICROSTRAIN**

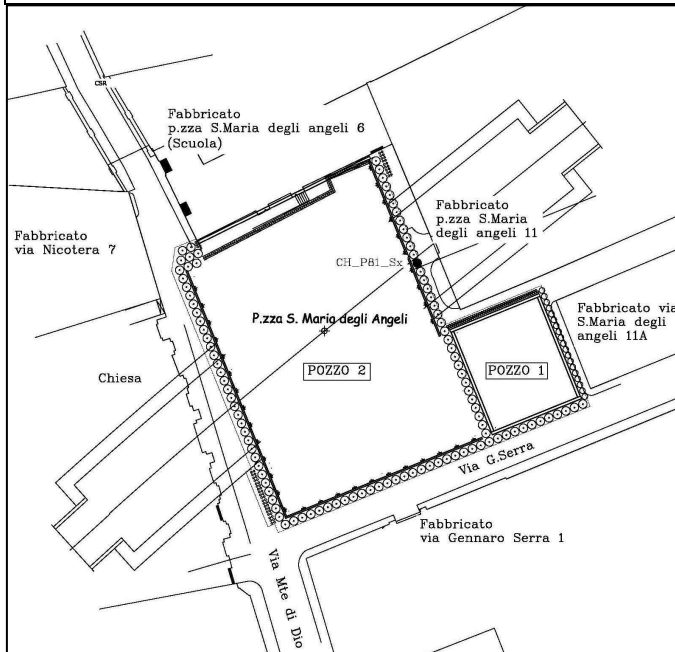


**GRAFICO TEMPERATURE**

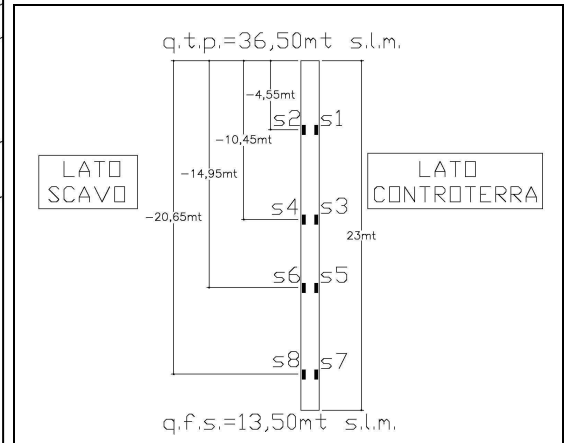


Pannello strumentato

CH\_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.

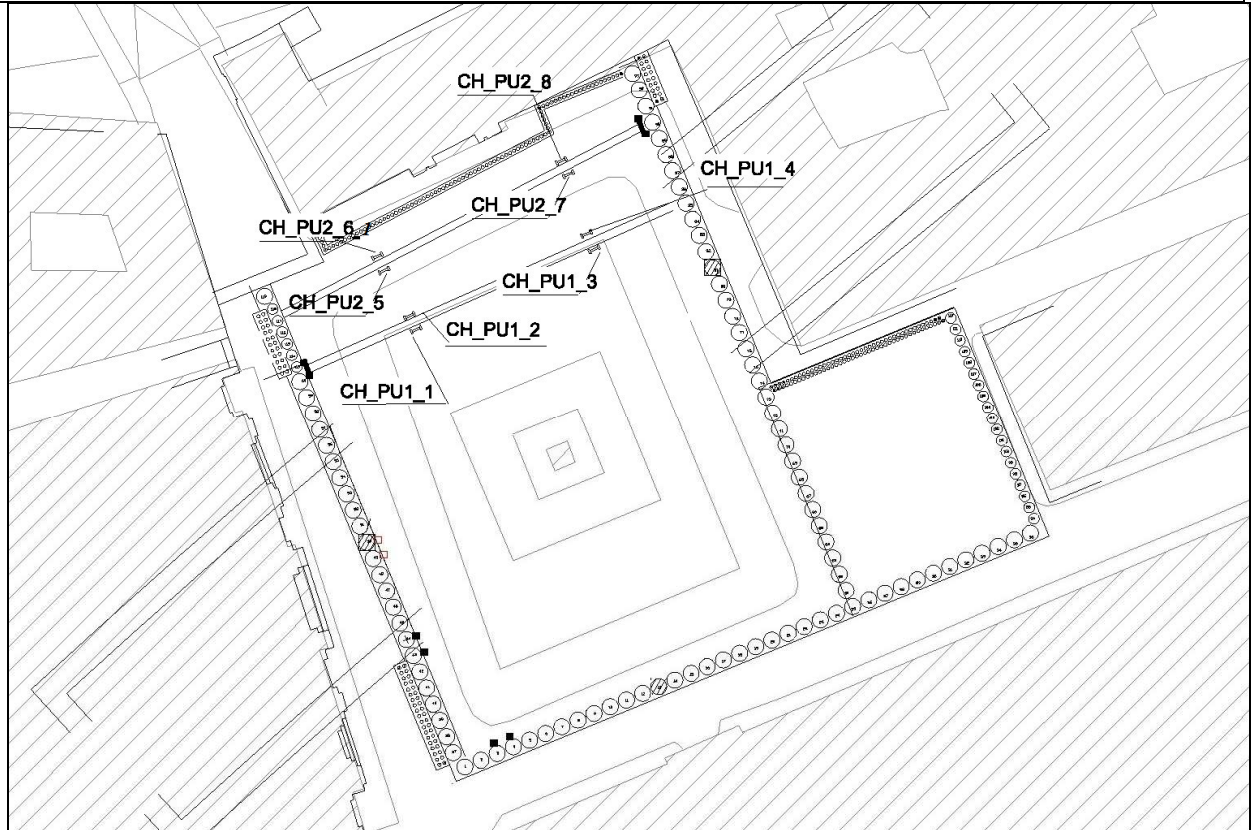
La barretta estensimetrica a c.v. CH\_P81\_S4 dalla data 25/03/10 non restituisce segnale

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

Ubicazione STAZIONE CHIAIA

Opera \ \ Puntone 1

Strumento Barretta Est. per Metallo

Data posa in opera 14/09/2011

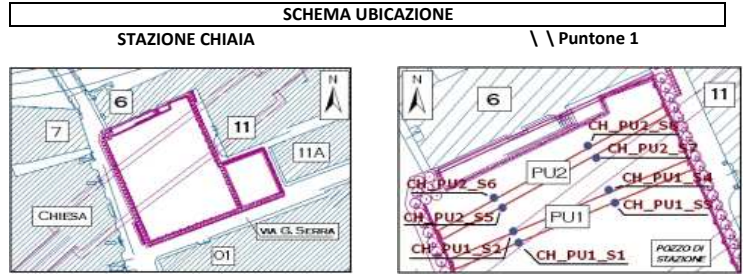
Data lettura di zero 14/09/2011

Ultima Misura 104 in data 25/02/2014

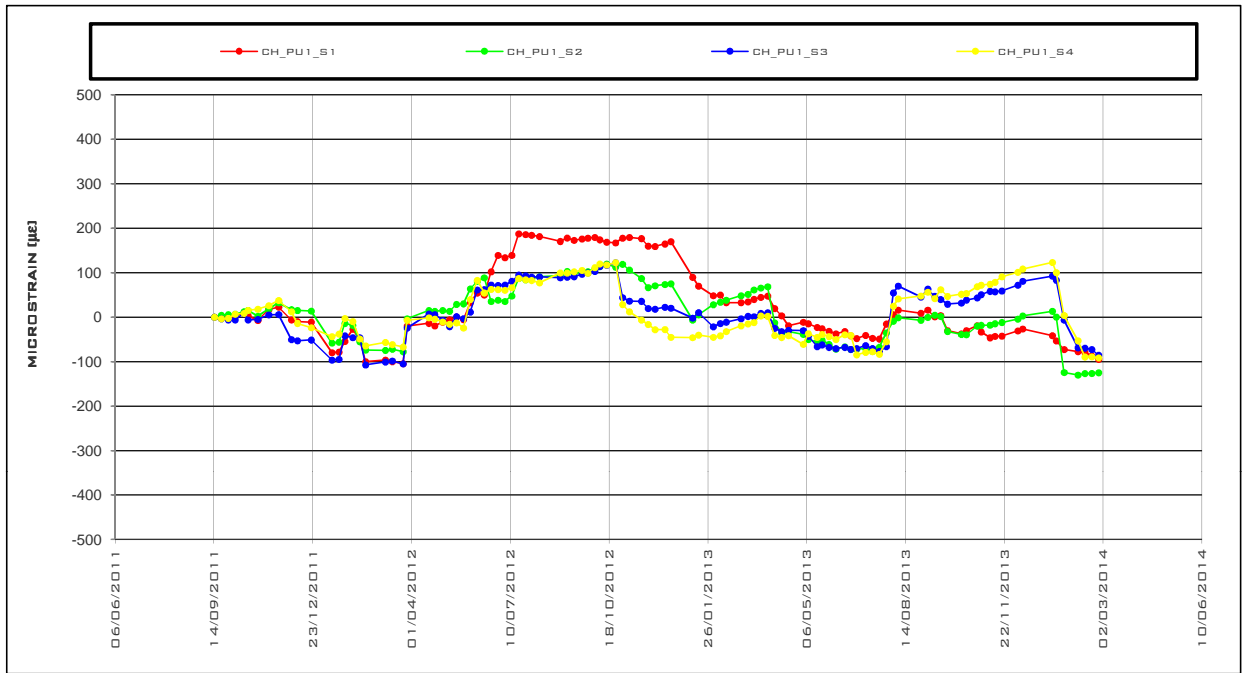
Letture n°	DATA	CH_PU1_S1		CH_PU1_S2		CH_PU1_S3		CH_PU1_S4	
		Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]
52	26/11/12 11.00	159,8	29,6	66,7	24,1	19,5	20,1	-16,2	18,3
53	3/12/12 10.00	159,0	29,2	70,8	24,1	17,9	19,3	-28,0	17,0
54	13/12/12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



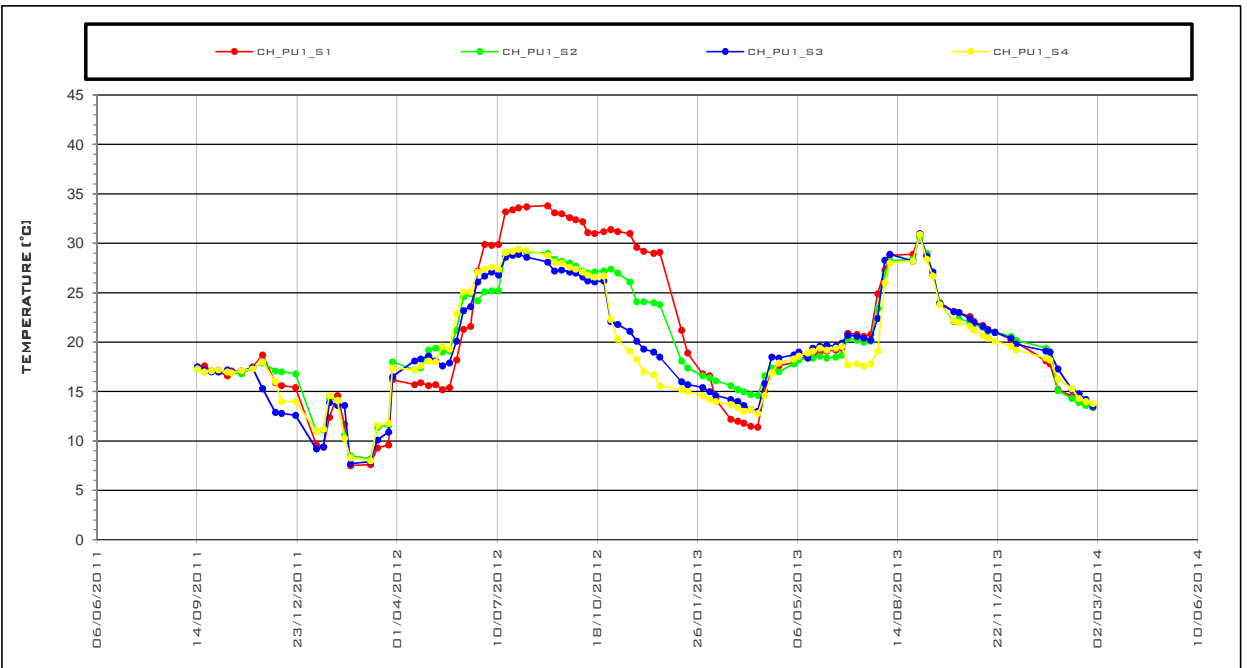
Ubicazione STAZIONE CHIAIA  
Opera \ \ Puntone 1  
Strumento Barretta Est. per Metallo  
Data posa in opera 14/09/2011  
Data lettura di zero 14/09/2011



**GRAFICO MICROSTRAIN**



**GRAFICO TEMPERATURE**



Ubicazione STAZIONE CHIAIA

Opera \ \ Puntone 2

Strumento Barretta Est. per Metallo

Data posa in opera 14/09/2011

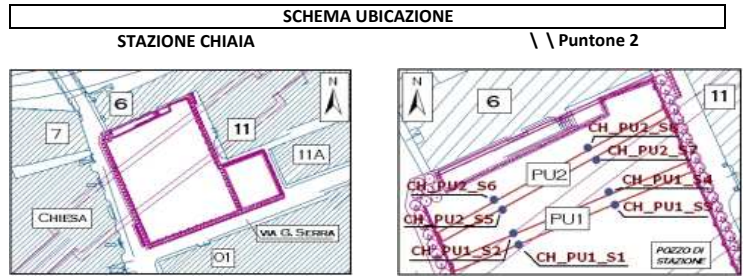
Data lettura di zero 14/09/2011

Ultima Misura 105 in data 25/02/2014

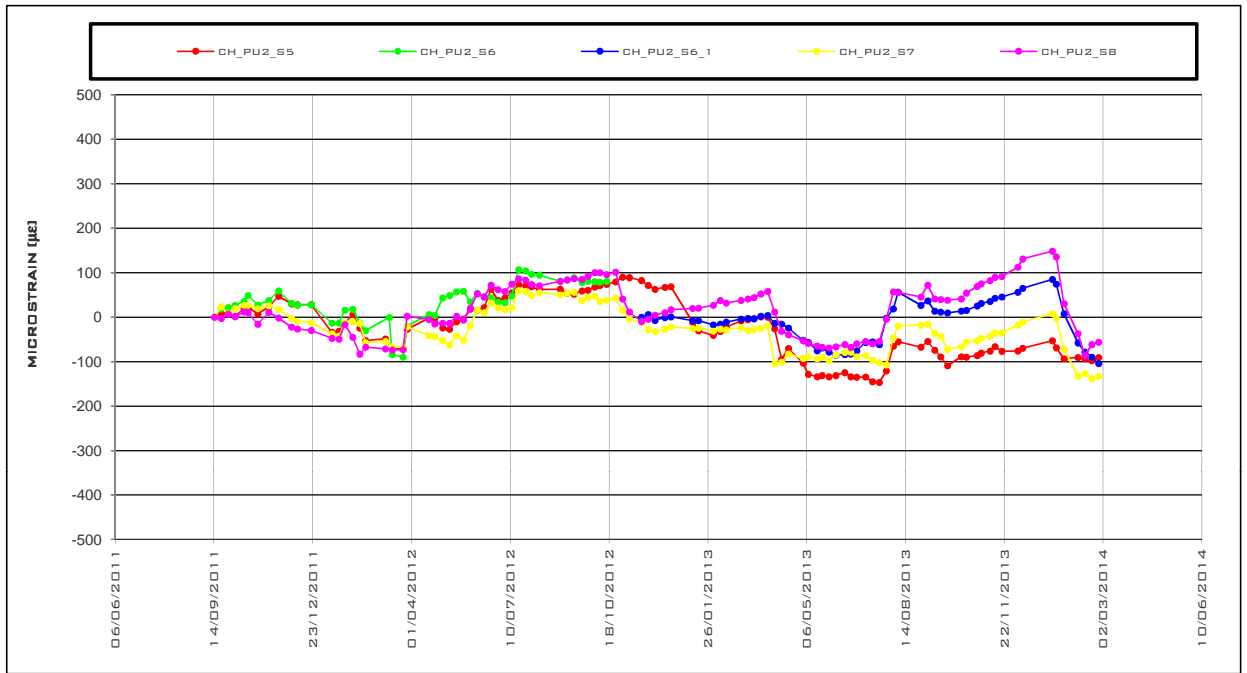
Letture n°	DATA	CH_PU2_S5		CH_PU2_S6		CH_PU2_S6.1		CH_PU2_S7		CH_PU2_S8	
		Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]
53	26/11/12 11.00	71,6	25,3			6,1	18,1	-28,0	18,9	-4,4	19,2
54	3/12/12 10.00	62,7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



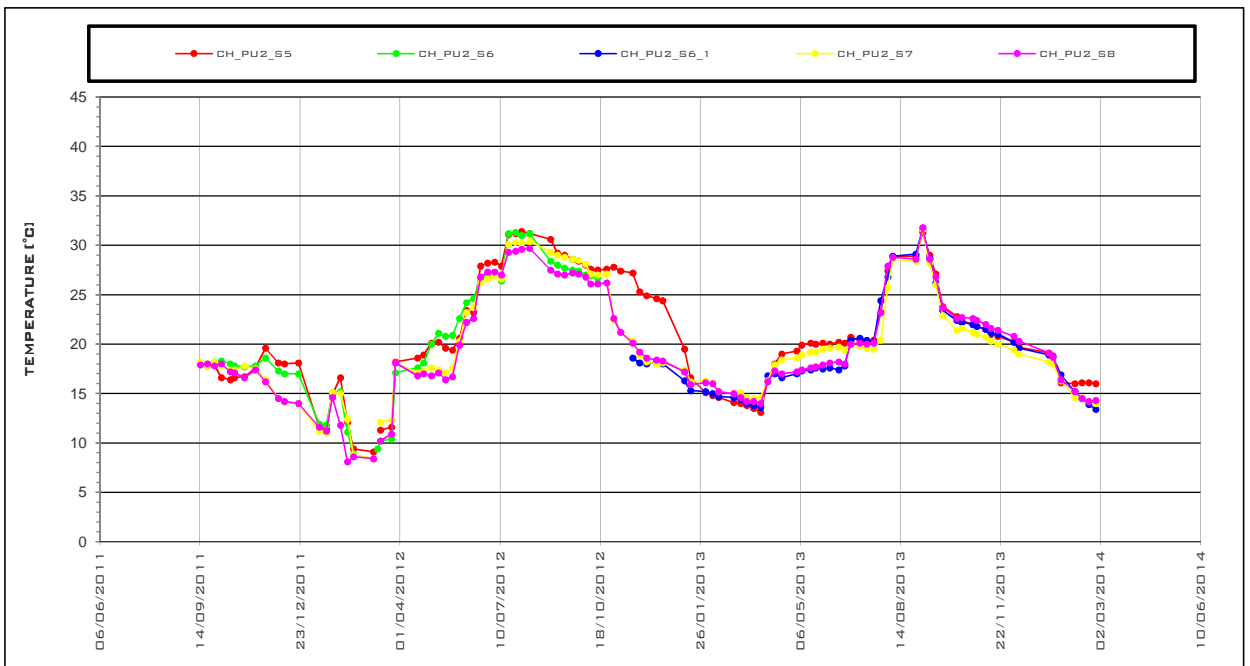
Ubicazione STAZIONE CHIAIA  
Opera \ \ Puntone 2  
Strumento Barretta Est. per Metallo  
Data posa in opera 14/09/2011  
Data lettura di zero 14/09/2011




**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 29 Data: 28/02/14 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 29 Data: 28/02/14 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

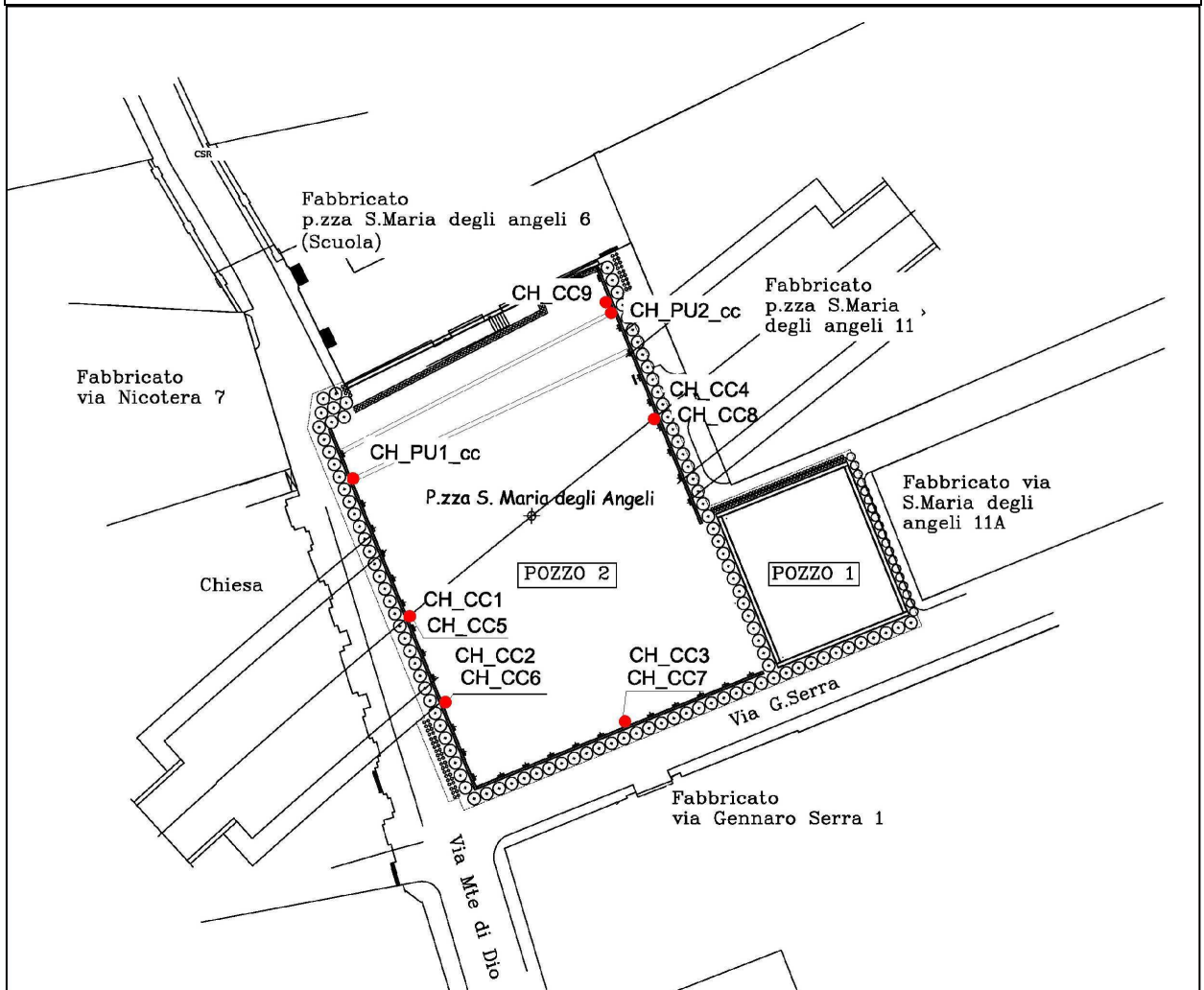
NOME	TIPOLOGIA STRUMENTO	DATA INSTALLAZIONE	DISPONIBILITA' LETTURA			NOTE
			DATA LETTURA DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
<b>SECONDO ORDINE DI TIRANTI</b>						
CH_CC5	CC. TOROIDALI	02/08/11	02/08/11			
CH_CC6	CC. TOROIDALI	02/08/11	02/08/11			
CH_CC7	CC. TOROIDALI	16/05/11	19/07/11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


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

135

in data

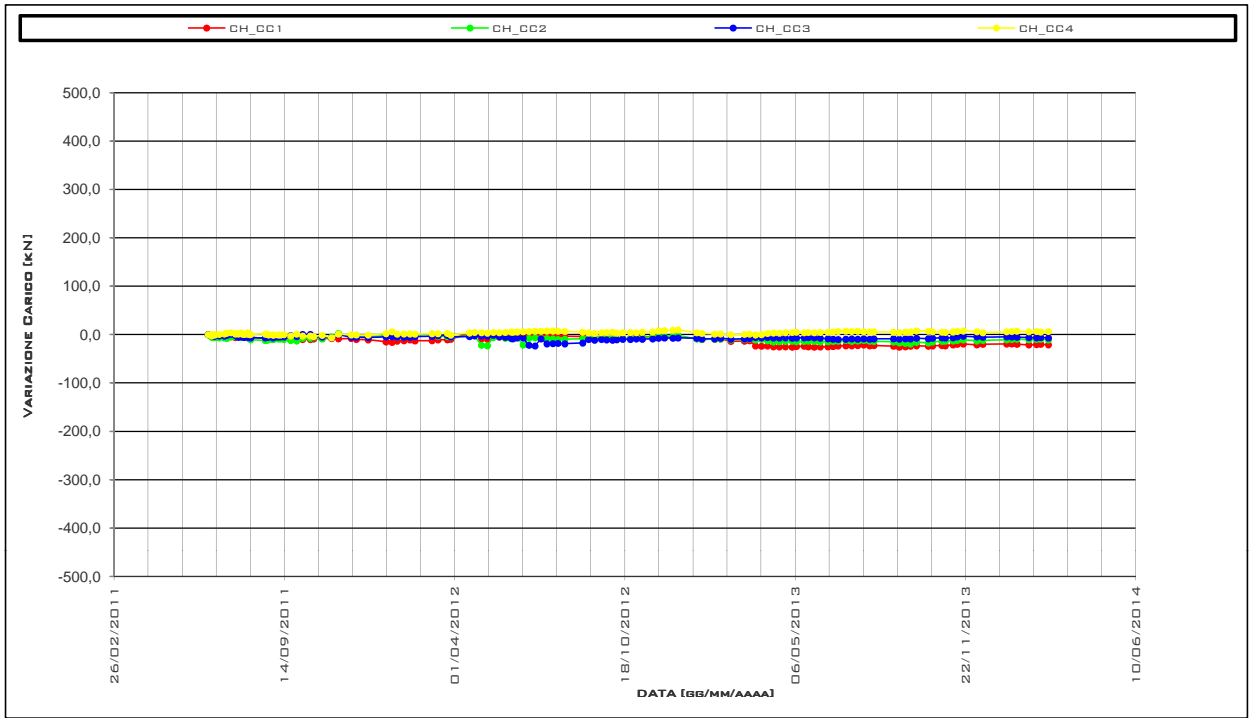
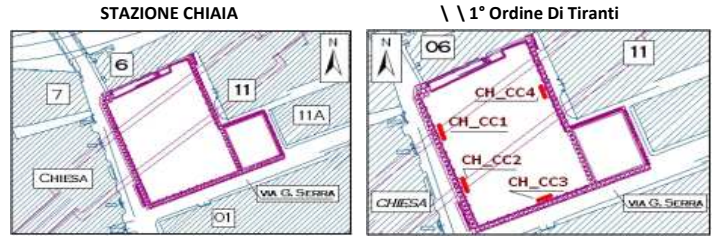
27/02/2014

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]
82	19/11/2012 15.00	-4,50	296,47	-5,00	295,08	-9,00	320,53	5,50	291,38
83	26/11/2012 12.00	-4,00	296,97	-4,00	296,08	-7,50	322,03	8,00	293,88
84	03/12/2012 11.00	-5,00	295,97	-4,00	296,08	-7,00	322,53	8,50	294,38
85	13/12/2012 10.00	-4,50	296,47	-3,00	297,08	-7,50	322,03	9,00	294,88
86	19/12/2012 10.00	-4,00	296,97	-2,00	298,08	-7,00	322,53	9,50	295,38
87	10/01/2013 10.30	-8,50	292,47	-8,50	291,58	-7,50	322,03	4,00	289,88
88	16/01/2013 10.00	-10,00	290,97	-10,01	290,08	-9,00	320,53	2,50	288,38
89	31/01/2013 10.00	-9,50	291,47	-9,51	290,58	-8,50	321,03	1,00	286,88
90	07/02/2013 11.00	-9,00	291,97	-9,00	291,08	-7,50	322,03	1,50	287,38
91	19/02/2013 10.00	-14,00	286,97	-11,01	289,08	-9,50	320,03	0,00	285,88
92	07/03/2013 11.00	-13,50	287,47	-10,01	290,08	-9,00	320,53	0,50	286,38
93	13/03/2013 11.30	-12,50	288,47	-9,00	291,08	-8,00	321,53	1,00	286,88
94	20/03/2013 10.00	-23,50	277,47	-11,01	289,08	-6,00	323,53	-0,50	285,38
95	27/03/2013 10.30	-24,00	276,97	-10,01	290,08	-6,50	323,03	0,00	285,88
96	03/04/2013 10.00	-23,50	277,47	-12,51	287,58	-6,00	323,53	2,50	288,38
97	10/04/2013 10.15	-25,00	275,97	-15,01	285,07	-7,00	322,53	3,50	289,38
98	17/04/2013 10.00	-25,50	275,47	-14,51	285,57	-7,00	322,53	3,00	288,88
99	24/04/2013 11.30	-25,00	275,97	-14,01	286,07	-6,50	323,03	4,00	289,88
100	02/05/2013 10.30	-26,00	274,97	-13,51	286,58	-7,50	322,03	4,50	290,38
101	07/05/2013 10.30	-24,50	276,47	-14,51	285,57	-7,00	322,53	5,00	290,88
102	16/05/2013 11.30	-24,00	276,97	-14,01	286,07	-6,50	323,03	4,00	289,88
103	21/05/2013 10.30	-25,00	275,97	-13,51	286,58	-6,00	323,53	4,50	290,38
104	28/05/2013 11.30	-26,00	274,97	-14,01	286,07	-6,50	323,03	4,00	289,88
105	04/06/2013 11.00	-25,50	275,47	-15,01	285,07	-7,50	322,03	4,50	290,38
106	13/06/2013 11.30	-25,00	275,97	-14,51	285,57	-8,50	321,03	5,00	290,88
107	19/06/2013 11.00	-24,50	276,47	-14,01	286,07	-9,50	320,03	5,50	291,38
108	25/06/2013 11.30	-23,50	277,47	-13,51	286,58	-10,00	319,53	6,50	292,38
109	04/07/2013 12.00	-23,00	277,97	-12,01	288,08	-9,50	320,03	7,00	292,88
110	11/07/2013 11.00	-23,00	277,97	-14,01	286,07	-9,00	320,53	6,50	292,38
111	18/07/2013 10.30	-22,50	278,47	-13,01	287,08	-9,50	320,03	7,00	292,88
112	25/07/2013 11.30	-21,50	279,47	-12,01	288,08	-8,50	321,03	6,00	291,88
113	01/08/2013 12.30	-23,00	277,97	-13,51	286,58	-9,50	320,03	5,50	291,38
114	06/08/2013 12.30	-22,50	278,47	-14,01	286,07	-9,00	320,53	6,00	291,88
115	29/08/2013 12.30	-24,00	276,97	-15,01	285,07	-8,50	321,03	5,00	290,88
116	05/09/2013 10.30	-26,00	274,97	-17,01	283,07	-9,50	320,03	4,00	289,88
117	12/09/2013 11.00	-25,00	275,97	-18,01	282,07	-8,50	321,03	5,00	290,88
118	18/09/2013 11.30	-24,00	276,97	-19,01	281,07	-9,00	320,53	5,50	291,38
119	25/09/2013 11.30	-23,00	277,97	-16,01	284,07	-7,50	322,03	7,50	293,38
120	09/10/2013 10.30	-24,00	276,97	-17,01	283,07	-8,50	321,03	7,00	292,88
121	14/10/2013 10.30	-23,50	277,47	-15,01	285,07	-7,50	322,03	6,00	291,88
122	25/10/2013 11.30	-22,50	278,47	-14,01	286,07	-6,50	323,03	5,00	290,88
123	29/10/2013 11.00	-23,00	277,97	-13,51	286,58	-7,00	322,53	4,50	290,38
124	07/11/2013 11.00	-21,00	279,97	-13,01	287,08	-6,50	323,03	5,50	291,38
125	12/11/2013 10.30	-20,00	280,97	-12,01	288,08	-4,50	325,03	6,50	292,38
126	19/11/2013 11.00	-19,50	281,47	-11,01	289,08	-3,50	326,03	7,50	293,38
127	05/12/2013 11.00	-21,00	279,97	-13,01	287,08	-4,50	325,03	6,00	291,88
128	12/12/2013 10.30	-20,00	280,97	-12,01	288,08	-5,50	324,03	4,00	289,88
129	09/01/2014 11.00	-19,50	281,47	-10,51	289,58	-4,50	325,03	6,00	291,88
130	15/01/2014 10.30	-19,00	281,97	-10,01	290,08	-5,00	324,53	6,50	292,38
131	21/01/2014 11.00	-20,00	280,97	-9,51	290,58	-5,50	324,03	7,00	292,88
132	04/02/2014 11.30	-21,00	279,97	-10,51	289,58	-6,00	323,53	6,00	291,88
133	13/02/2014 11.00	-20,50	280,47	-10,01	290,08	-6,50	323,03	6,50	292,38
134	18/02/2014 11.00	-20,00	280,97	-9,51	290,58	-6,00	323,53	5,50	291,38
135	27/02/2014 11.00	-21,00	279,97	-11,01	289,08	-7,00	322,53	6,50	292,38



**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

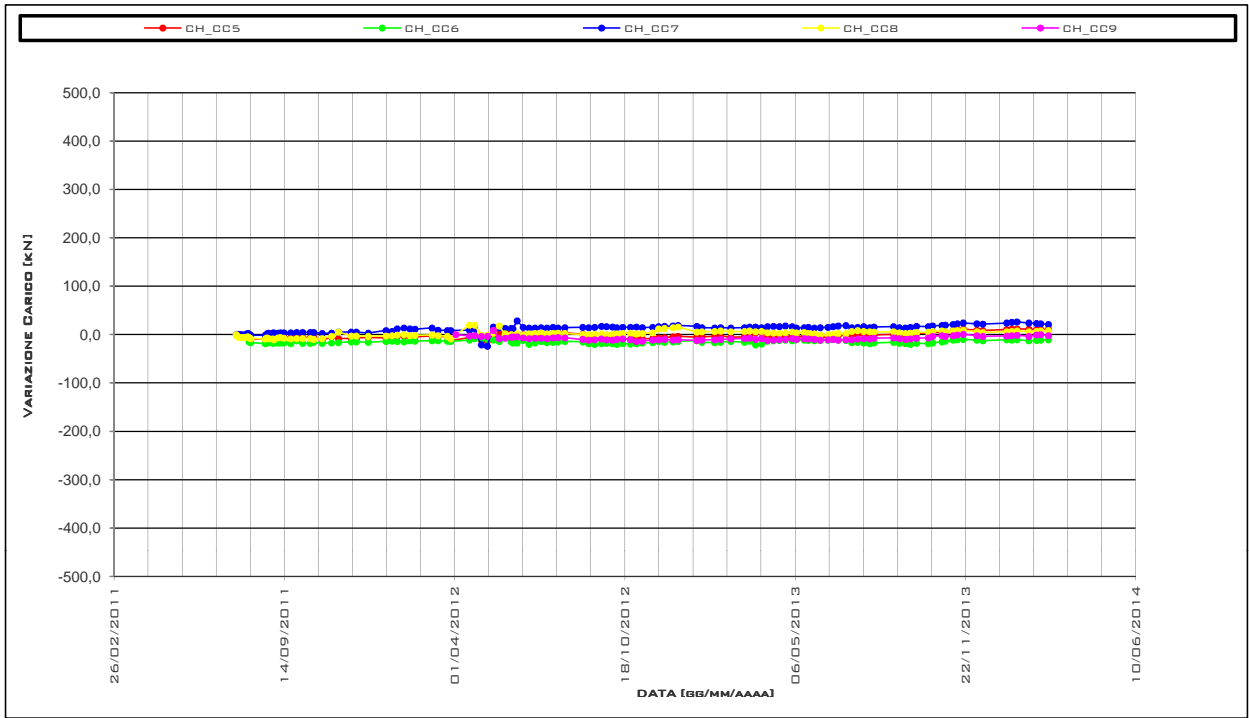
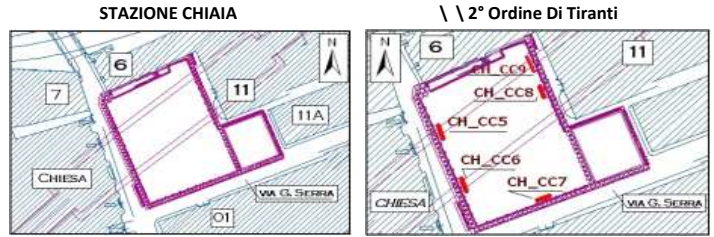
**Ultima misura** 125 **in data** 27/02/2014

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



**SCHEMA UBICAZIONE**

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





TABULATI

Ubicazione STAZIONE CHIAIA

Tipo Strumento Cella di Carico

Posizione \ \ Puntoni

Data posa in opera 14/09/2011

Data lettura di zero 14/09/2011

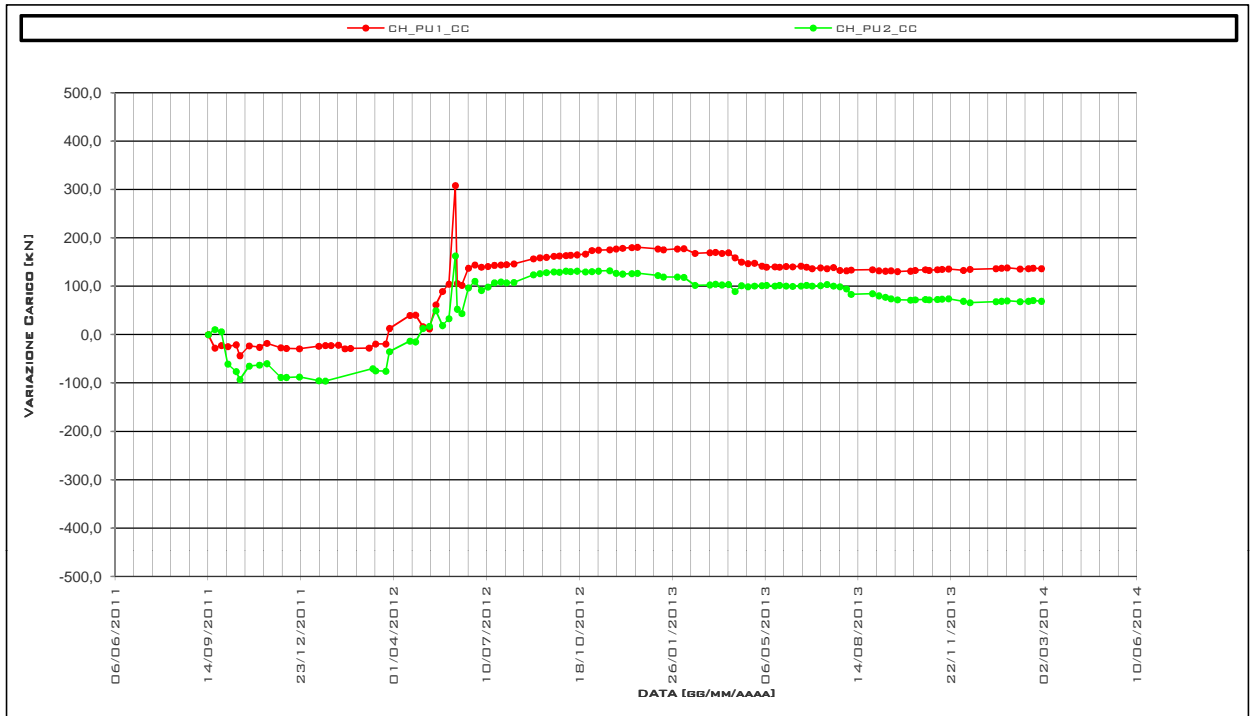
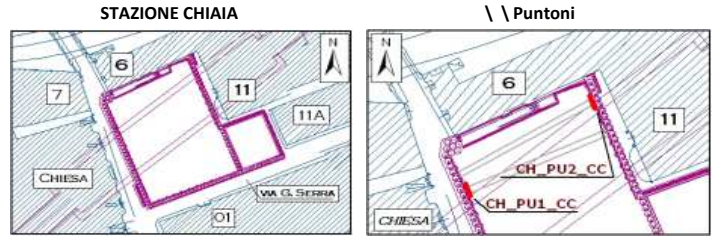
Ultima misura 106 in data 27/02/2014

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




SCHEMA UBICAZIONE

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





 <p><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 129 Data: 28/02/14 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 129 Data: 28/02/14 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			
CH_MO19	M. OTTICHE		15/11/11			
CH_MO20	M. OTTICHE		15/11/11			
CH_MO21	M. OTTICHE		02/08/11			
CH_MO22	M. OTTICHE		02/08/11			
CH_MO23	M. OTTICHE		02/08/11			
CH_MO24	M. OTTICHE		02/08/11			
CH_MO25	M. OTTICHE		25/07/11			
CH_MO26	M. OTTICHE		25/07/11			
CH_MO27	M. OTTICHE		24/08/11			
CH_MO28	M. OTTICHE		24/08/11			
CH_MO29	M. OTTICHE		24/08/11			
CH_MO30	M. OTTICHE		24/08/11			
CH_MO31	M. OTTICHE		29/11/11			
CH_MO32	M. OTTICHE		29/11/11			



 <p><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 129 Data: 28/02/14 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	
CH_MO36A	M. OTTICHE		28/03/13			Sostituisce CH_MO36
CH_MO37	M. OTTICHE		18/09/12		13/06/13	
CH_MO37A	M. OTTICHE		01/07/13			Sostituisce CH_MO37
CH_MO38	M. OTTICHE		07/02/13			
CH_MO39	M. OTTICHE		07/02/13			
CH_MO40	M. OTTICHE		14/02/13		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			
CH_MO46	M. OTTICHE		28/03/13			
CH_MO47	M. OTTICHE		28/03/13			
CH_MO48	M. OTTICHE		28/03/13			
CH_MO49	M. OTTICHE		28/03/13			
CH_MO50	M. OTTICHE		28/03/13			
CH_MO51	M. OTTICHE		03/04/13			
CH_MO52	M. OTTICHE		28/03/13			
CH_MO53	M. OTTICHE		28/03/13			
CH_MO54	M. OTTICHE		28/03/13			
CH_MO55	M. OTTICHE		28/03/13			
CH_MO56	M. OTTICHE		28/03/13			
CH_MO57	M. OTTICHE		28/03/13			
CH_MO58	M. OTTICHE		28/03/13			
CH_MO59	M. OTTICHE		28/03/13			
CH_MO60	M. OTTICHE		28/03/13			
CH_MO61	M. OTTICHE		28/03/13			
CH_MO62	M. OTTICHE		28/03/13			
CH_MO63	M. OTTICHE		28/03/13			
CH_MO64	M. OTTICHE		28/03/13			
CH_MO65	M. OTTICHE		06/02/14			
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 129 Data: 28/02/14 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			

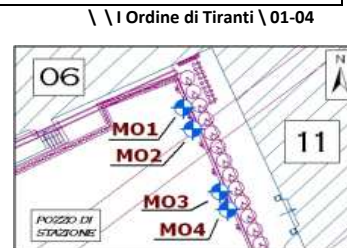




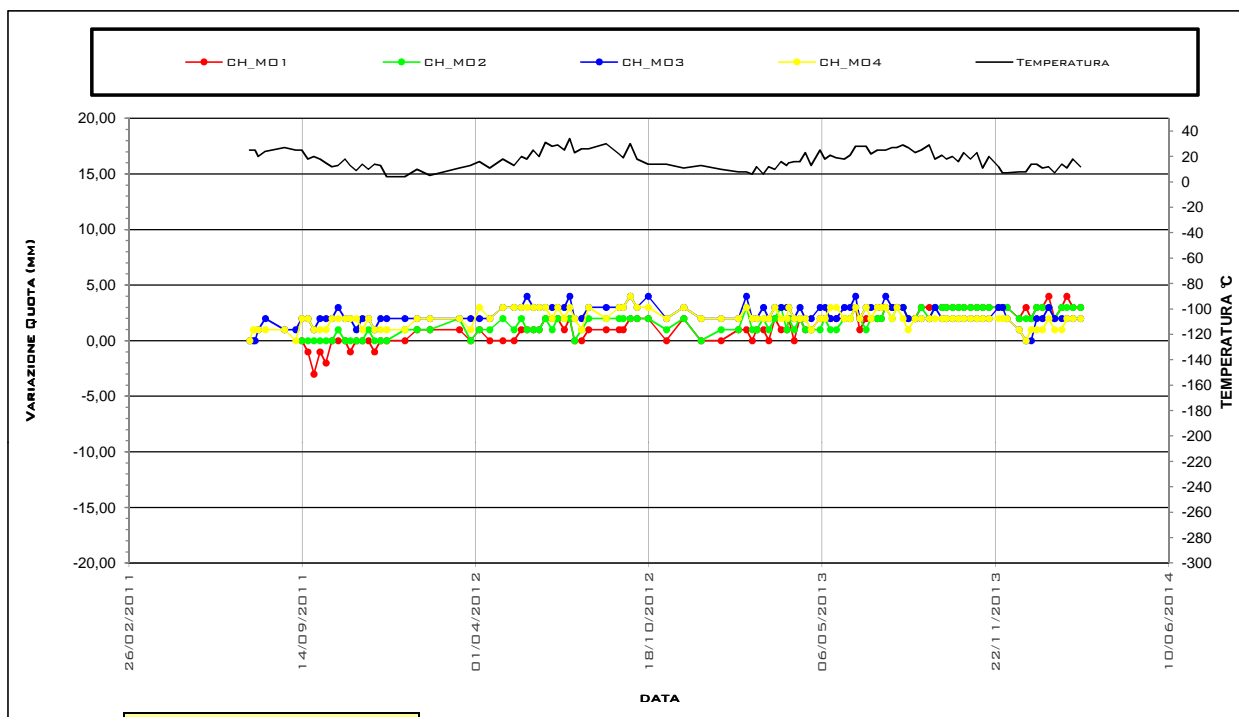


**UBICAZIONE**

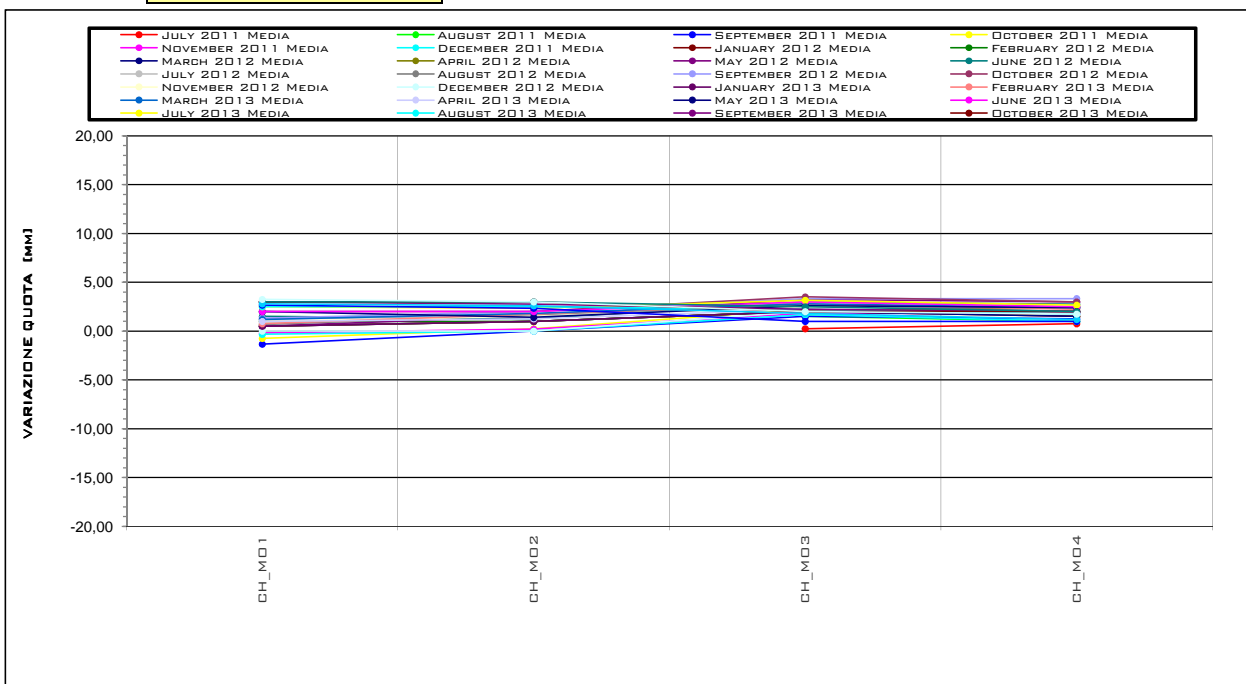
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ 1 Ordine di Tiranti \ 01-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 13/09/2011  
**Data lettura di zero** 13/09/2011



**GRAFICO QUOTA**

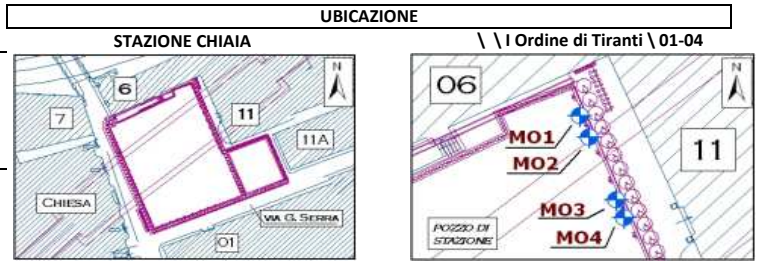


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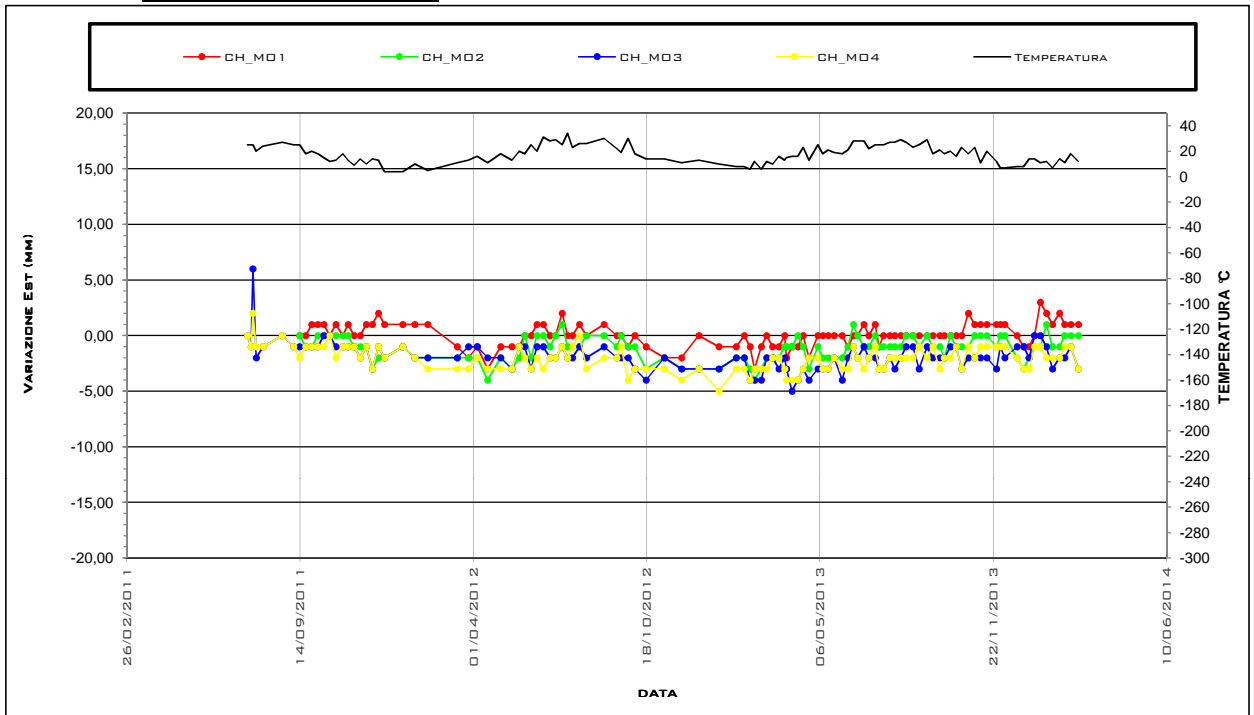




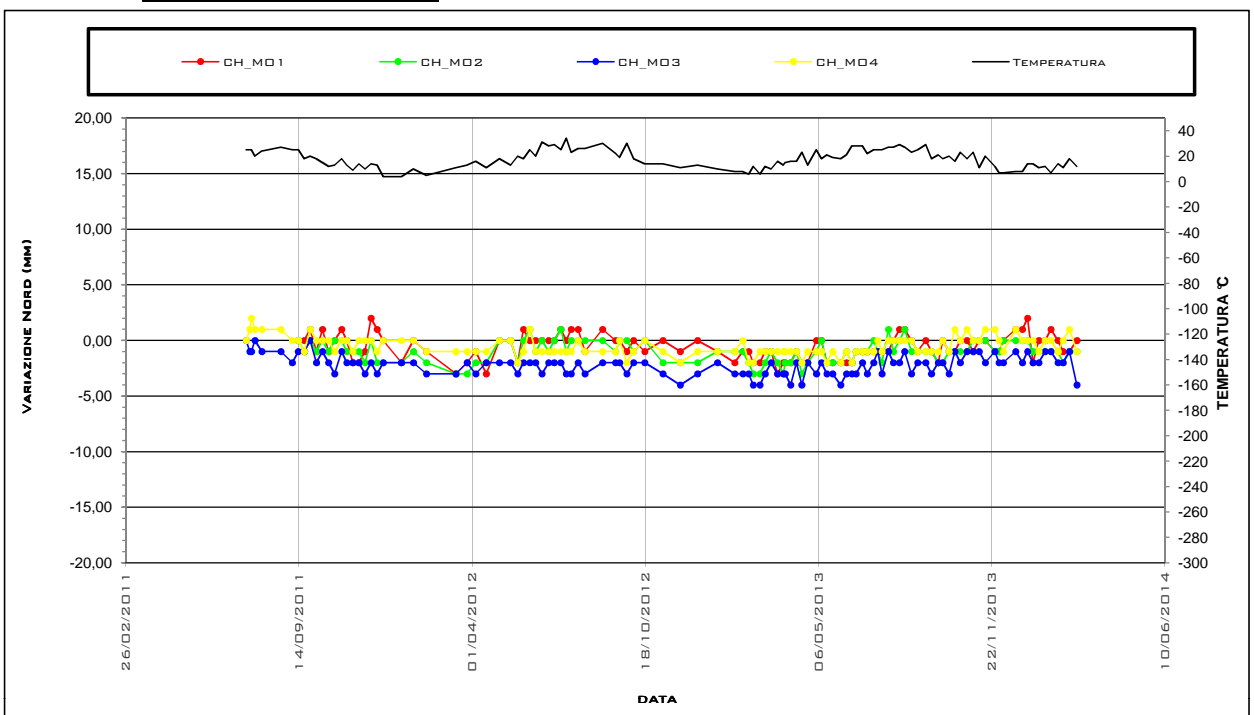
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ I Ordine di Tiranti \ 01-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 13/09/2011  
**Data lettura di zero** 13/09/2011



**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

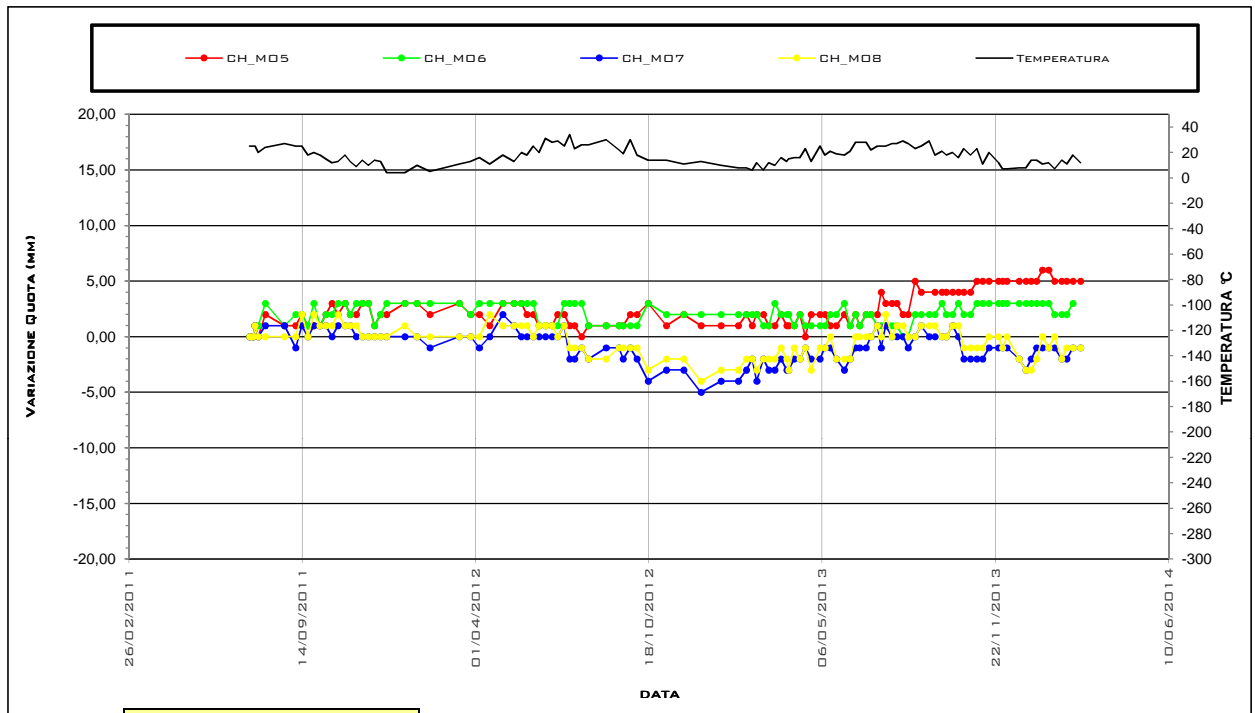
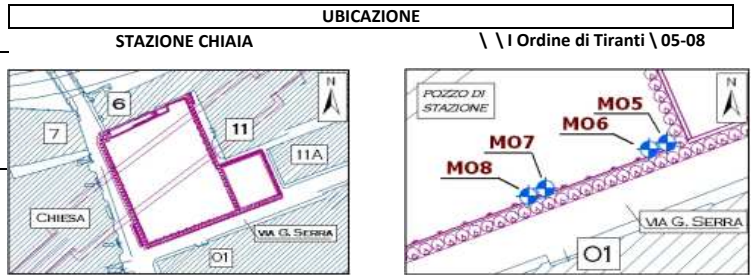
**Ultima Misura** 111 **in data** 28/02/2014

Lett. 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]
21	13/12/2011 08.00	13,0	33,2	2,0	-3,0	0,0	13,0	33,2	2,0	-3,0	1,0	13,0	33,1	0,0	-3,0	1,0	13,0	33,1	0,0	-3,0	1,0
22	20/12/2011 08.00	4,0	33,2	2,0	-5,0	1,0	4,0	33,2	3,0	-4,0	1,0	4,0	33,1	0,0	-4,0	1,0	4,0	33,1	0,0	-4,0	1,0
23	10/01/2012 08.00	4,0	33,2	3,0	-2,0	3,0	4,0	33,2	3,0	-2,0	2,0	4,0	33,1	0,0	-2,0	2,0	4,0	33,1	1,0	-2,0	3,0
24	24/01/2012 08.00	10,0	33,2	3,0	-4,0	3,0	10,0	33,2	3,0	-4,0	3,0	10,0	33,1	0,0	-3,0	3,0	10,0	33,1	0,0	-3,0	1,0
25	08/02/2012 08.00	5,0	33,2	2,0	-5,0	1,0	5,0	33,2	3,0	-5,0	2,0	5,0	33,1	-1,0	-4,0	0,0	5,0	33,1	0,0	-4,0	1,0
26	13/03/2012 08.00	11,0	33,2	3,0	-5,0	0,0	11,0	33,2	3,0	-5,0	1,0	11,0	33,1	0,0	-4,0	1,0	11,0	33,1	0,0	-4,0	0,0
27	26/03/2012 08.00	13,0	33,2	2,0	-1,0	1,0	13,0	33,2	2,0	-2,0	1,0	13,0	33,1	0,0	-2,0	2,0	13,0	33,1	0,0	-3,0	1,0
28	05/04/2012 08.00	16,0	33,2	2,0	-2,0	1,0	16,0	33,2	3,0	-2,0	2,0	16,0	33,1	-1,0	-2,0	1,0	16,0	33,1	0,0	-3,0	2,0
29	17/04/2012 08.00	11,0	33,2	1,0	-3,0	1,0	11,0	33,2	3,0	-3,0	1,0	11,0	33,1	0,0	-4,0	1,0	11,0	33,1	2,0	-4,0	1,0
30	02/05/2012 10.30	18,0	33,2	3,0	-6,0	2,0	18,0	33,2	3,0	-3,0	1,0	18,0	33,1	2,0	-3,0	1,0	18,0	33,1	1,0	-4,0	1,0
31	15/05/2012 08.30	13,0	33,2	3,0	-6,0	2,0	13,0	33,2	3,0	-4,0	1,0	13,0	33,1	1,0	-3,0	1,0	13,0	33,1	1,0	-4,0	0,0
32	23/05/2012 17.30	20,0	33,2	3,0	0,0	2,0	20,0	33,2	3,0	0,0	3,0	20,0	33,1	0,0	-3,0	2,0	20,0	33,1	1,0	-3,0	3,0
33	30/05/2012 08.30	18,0	33,2	2,0	-5,0	1,0	18,0	33,2	3,0	-3,0	1,0	18,0	33,1	0,0	-3,0	1,0	18,0	33,1	1,0	-3,0	3,0
34	06/06/2012 16.30	25,0	33,2	2,0	-5,0	2,0	25,0	33,2	3,0	-4,0	2,0	25,0	33,1	0,0	-4,0	2,0	25,0	33,1	0,0	-5,0	2,0
35	13/06/2012 08.30	20,0	33,2	1,0	0,0	2,0	20,0	33,2	1,0	0,0	3,0	20,0	33,1	0,0	-4,0	2,0	20,0	33,1	1,0	-4,0	3,0
36	20/06/2012 16.30	31,0	33,2	1,0	-2,0	2,0	31,0	33,2	1,0	-2,0	2,0	31,0	33,1	0,0	-5,0	1,0	31,0	33,1	1,0	-5,0	1,0
37	28/06/2012 08.30	28,0	33,2	1,0	-1,0	4,0	28,0	33,2	1,0	-1,0	4,0	28,0	33,1	0,0	-4,0	3,0	28,0	33,1	1,0	-5,0	3,0
38	04/07/2012 19.30	29,0	33,2	2,0	-4,0	2,0	29,0	33,2	1,0	-4,0	2,0	29,0	33,1	0,0	-5,0	1,0	29,0	33,1	0,0	-6,0	2,0
39	12/07/2012 08.30	25,0	33,2	2,0	-3,0	3,0	25,0	33,2	3,0	-3,0	4,0	25,0	33,1	1,0	-4,0	4,0	25,0	33,1	1,0	-5,0	4,0
40	18/07/2012 16.30	34,0	33,2	1,0	0,0	3,0	34,0	33,2	3,0	2,0	4,0	34,0	33,1	-2,0	-4,0	4,0	34,0	33,1	-1,0	-5,0	5,0
41	24/07/2012 09.00	23,0	33,2	1,0	-1,0	0,0	23,0	33,2	3,0	1,0	3,0	23,0	33,1	-2,0	-1,0	2,0	23,0	33,1	-1,0	-2,0	0,0
42	01/08/2012 09.00	26,0	33,2	0,0	0,0	0,0	26,0	33,2	3,0	1,0	3,0	26,0	33,1	-1,0	-1,0	3,0	26,0	33,1	-1,0	-2,0	1,0
43	09/08/2012 08.30	26,0	33,2	1,0	-3,0	1,0	26,0	33,2	1,0	-3,0	3,0	26,0	33,1	-2,0	-4,0	5,0	26,0	33,1	-2,0	-5,0	4,0
44	29/08/2012 16.30	30,0	33,2	1,0	-2,0	2,0	30,0	33,2	1,0	-2,0	3,0	30,0	33,1	-1,0	-5,0	3,0	30,0	33,1	-2,0	-6,0	2,0
45	13/09/2012 15.00	22,0	33,2	1,0	-1,0	4,0	22,0	33,2	1,0	-2,0	5,0	22,0	33,1	-1,0	-5,0	4,0	22,0	33,1	-1,0	-6,0	5,0
46	18/09/2012 08.00	19,0	33,2	1,0	-1,0	4,0	19,0	33,2	1,0	0,0	6,0	19,0	33,1	-2,0	-5,0	4,0	19,0	33,1	-1,0	-5,0	6,0
47	26/09/2012 15.00	30,0	33,2	2,0	-2,0	4,0	30,0	33,2	1,0	-1,0	4,0	30,0	33,1	-1,0	-4,0	4,0	30,0	33,1	-1,0	-5,0	4,0
48	04/10/2012 09.00	18,0	33,2	2,0	-4,0	2,0	18,0	33,2	1,0	-3,0	3,0	18,0	33,1	-2,0	-5,0	5,0	18,0	33,1	-1,0	-7,0	4,0
49	17/10/2012 08.30	14,0	33,2	3,0	-2,0	4,0	14,0	33,2	3,0	-1,0	5,0	14,0	33,1	-4,0	-5,0	4,0	14,0	33,1	-3,0	-5,0	5,0
50	07/11/2012 08.00	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 08.30	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														

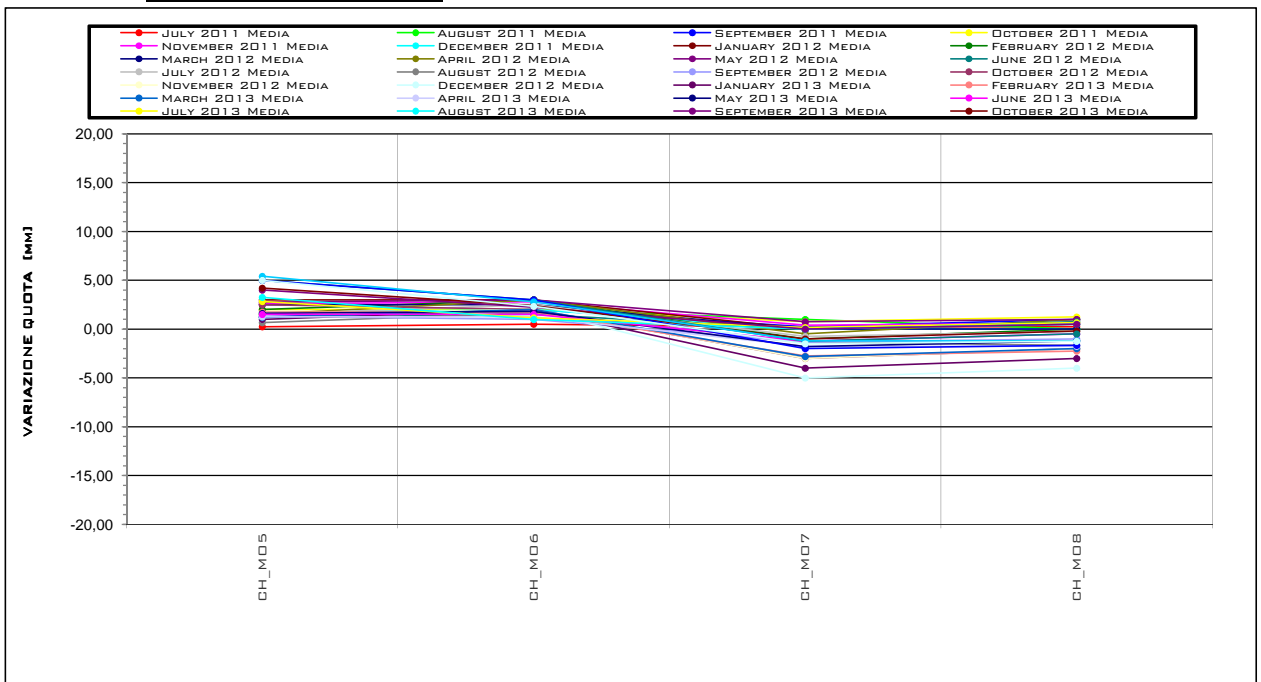


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ 1 Ordine di Tiranti \ 05-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 15/07/2011  
**Data lettura di zero** 15/07/2011

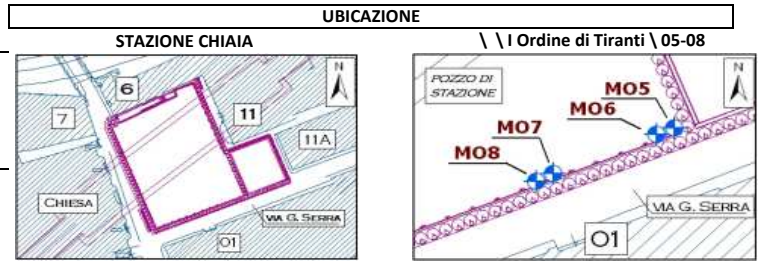
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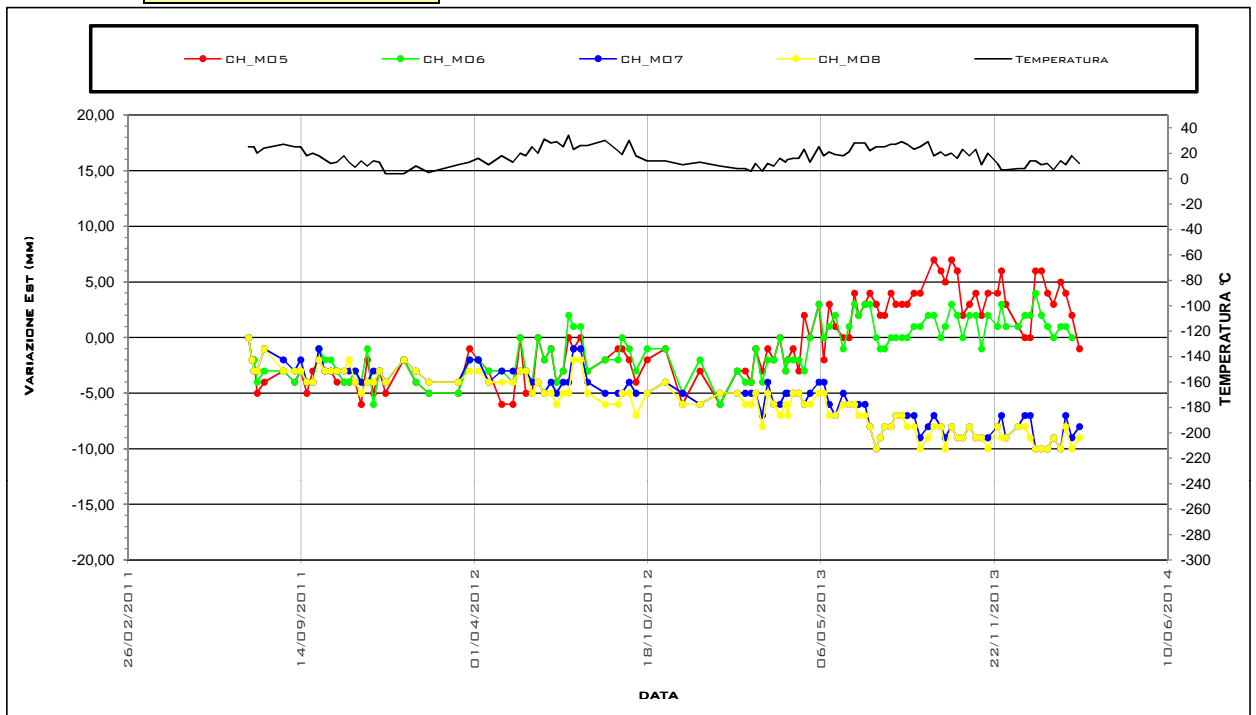
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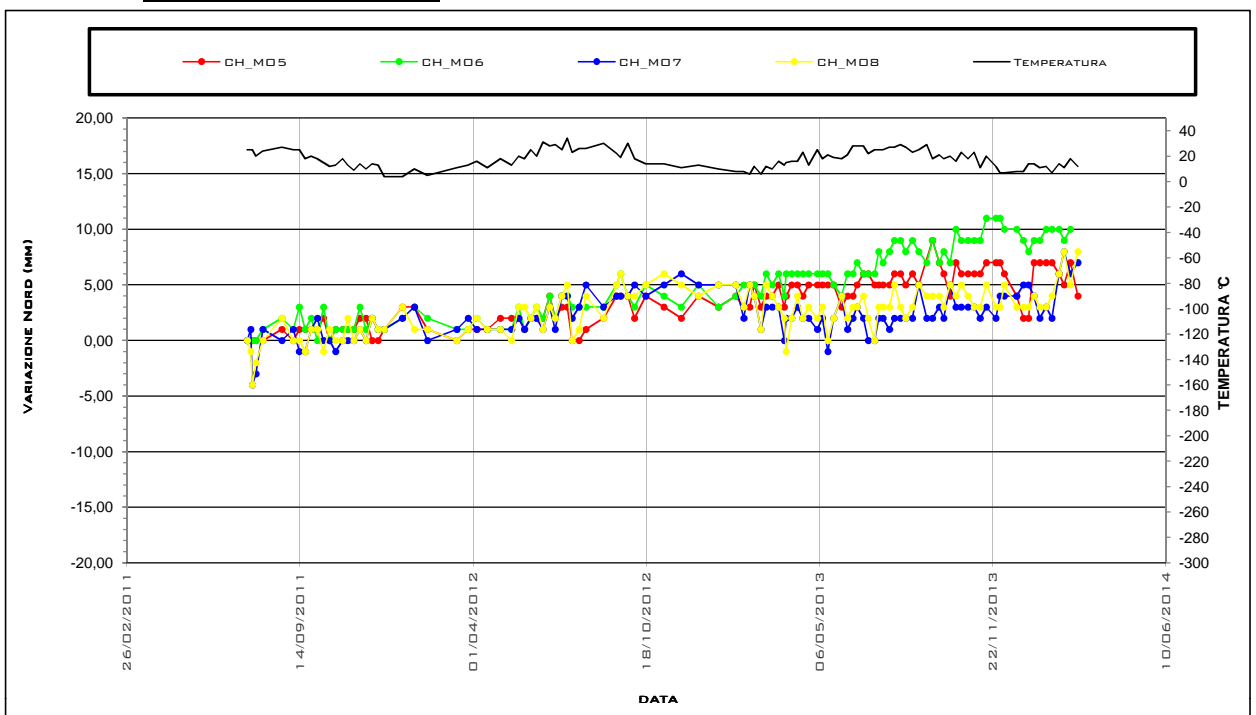
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ I Ordine di Tiranti \ 05-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 15/07/2011  
**Data lettura di zero** 15/07/2011



**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

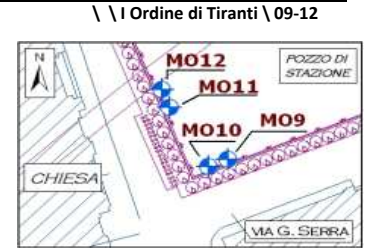
Ultima Misura 111 in data 28/02/2014

Letto. n°	DATA	CH_M010					CH_M011					CH_M012					CH_M09					
		Temp. Media [C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	
21	13/12/2011 08.00	13,0	34,1	0,0	-2,0	0,0	13,0	34,0	-1,0	0,0	2,0	13,0	34,0	0,0	-2,0	2,0	13,0	34,1	0,0	-2,0	1,0	
22	20/12/2011 08.00	4,0	34,1	-1,0	-3,0	1,0	4,0	34,0	-1,0	-2,0	2,0	4,0	34,0	0,0	-3,0	2,0	4,0	34,1	1,0	-1,0	1,0	
23	10/01/2012 08.00	4,0	34,1	0,0	0,0	0,0	4,0	34,0	0,0	0,0	3,0	4,0	34,0	0,0	-2,0	3,0	4,0	34,1	1,0	1,0	3,0	
24	24/01/2012 08.00	10,0	34,1	0,0	-2,0	1,0	10,0	34,0	-1,0	-2,0	2,0	10,0	34,0	0,0	-2,0	3,0	10,0	34,1	0,0	0,0	1,0	
25	08/02/2012 08.00	5,0	34,1	-1,0	-3,0	0,0	5,0	34,0	-2,0	-1,0	3,0	5,0	34,0	0,0	-3,0	2,0	5,0	34,1	0,0	-1,0	2,0	
26	13/03/2012 08.00	11,0	34,1	0,0	-2,0	0,0	11,0	34,0	-1,0	0,0	1,0	11,0	34,0	0,0	-2,0	1,0	11,0	34,1	0,0	0,0	0,0	
27	26/03/2012 08.00	13,0	34,1	0,0	-2,0	1,0	13,0	34,0	-2,0	-1,0	3,0	13,0	34,0	0,0	-1,0	3,0	13,0	34,1	1,0	0,0	0,0	
28	05/04/2012 08.00	16,0	34,1	-1,0	-3,0	0,0	16,0	34,0	-2,0	-1,0	2,0	16,0	34,0	0,0	-3,0	2,0	16,0	34,1	1,0	-1,0	1,0	
29	17/04/2012 08.00	11,0	34,1	0,0	-3,0	1,0	11,0	34,0	-1,0	-1,0	2,0	11,0	34,0	1,0	-3,0	2,0	11,0	34,1	1,0	-2,0	2,0	
30	02/05/2012 10.30	18,0	34,1	1,0	-2,0	0,0	18,0	34,0	0,0	-1,0	2,0	18,0	34,0	2,0	-3,0	2,0	18,0	34,1	2,0	-1,0	1,0	
31	15/05/2012 08.30	13,0	34,1	0,0	-4,0	-1,0	13,0	34,0	0,0	-1,0	1,0	13,0	34,0	1,0	-3,0	1,0	13,0	34,1	2,0	0,0	0,0	
32	23/05/2012 17.30	20,0	34,1	1,0	-2,0	1,0	20,0	34,0	0,0	-1,0	2,0	20,0	34,0	0,0	-2,0	2,0	20,0	34,1	1,0	-1,0	2,0	
33	30/05/2012 08.30	18,0	34,1	0,0	-2,0	0,0	18,0	34,0	0,0	-1,0	2,0	18,0	34,0	0,0	-2,0	2,0	18,0	34,1	2,0	-2,0	2,0	
34	06/06/2012 16.30	25,0	34,1	0,0	-4,0	1,0	25,0	34,0	-1,0	-1,0	3,0	25,0	34,0	0,0	-2,0	1,0	25,0	34,1	1,0	-2,0	2,0	
35	13/06/2012 08.30	20,0	34,1	0,0	-3,0	1,0	20,0	34,0	0,0	-1,0	2,0	20,0	34,0	0,0	-2,0	2,0	20,0	34,1	1,0	0,0	1,0	
36	20/06/2012 16.30	31,0	34,1	0,0	-4,0	-1,0	31,0	34,0	0,0	-1,0	-1,0	31,0	34,0	1,0	-1,0	0,0	31,0	34,1	1,0	-1,0	0,0	
37	28/06/2012 08.30	28,0	34,1	0,0	-4,0	1,0	28,0	34,0	1,0	-1,0	1,0	28,0	34,0	1,0	-2,0	3,0	28,0	34,1	1,0	-3,0	3,0	
38	04/07/2012 19.30	29,0	34,1	0,0	-6,0	0,0	29,0	34,0	0,0	-2,0	0,0	29,0	34,0	0,0	-3,0	1,0	29,0	34,1	0,0	-3,0	1,0	
39	12/07/2012 08.30	25,0	34,1	0,0	-4,0	0,0	25,0	34,0	0,0	-1,0	1,0	25,0	34,0	0,0	-1,0	2,0	25,0	34,1	0,0	-2,0	1,0	
40	18/07/2012 16.30	34,0	34,1	-2,0	-4,0	1,0	34,0	34,0	-1,0	-1,0	0,0	34,0	34,0	0,0	-1,0	2,0	34,0	34,1	-1,0	-3,0	2,0	
41	24/07/2012 09.00	23,0	34,1	-2,0	-2,0	-3,0	23,0	34,0	-1,0	1,0	2,0	23,0	34,0	-1,0	0,0	1,0	23,0	34,1	-1,0	-1,0	-2,0	
42	01/08/2012 08.00	26,0	34,1	-2,0	-3,0	-2,0	26,0	34,0	-1,0	2,0	2,0	26,0	34,0	-1,0	0,0	0,0	26,0	34,1	-1,0	-1,0	-1,0	
43	09/08/2012 08.30	26,0	34,1	-2,0	-4,0	1,0	26,0	34,0	-1,0	-1,0	1,0	26,0	34,0	-1,0	-1,0	3,0	26,0	34,1	-2,0	-1,0	2,0	
44	29/08/2012 16.00	30,0	34,1	-1,0	-5,0	1,0	30,0	34,0	-1,0	-1,0	0,0	30,0	34,0	0,0	-2,0	1,0	30,0	34,1	0,0	-4,0	1,0	
45	13/09/2012 15.00	22,0	34,1	-1,0	-4,0	2,0	22,0	34,0	-1,0	-2,0	1,0	22,0	34,0	0,0	-2,0	2,0	22,0	34,1	0,0	-3,0	3,0	
46	18/09/2012 08.00	19,0	34,1	-2,0	-4,0	3,0	19,0	34,0	-1,0	-1,0	2,0	19,0	34,0	0,0	-1,0	3,0	19,0	34,1	0,0	-3,0	3,0	
47	26/09/2012 15.00	30,0	34,1	-1,0	-4,0	2,0	30,0	34,0	0,0	-1,0	1,0	30,0	34,0	0,0	-1,0	1,0	30,0	34,1	0,0	-3,0	2,0	
48	04/10/2012 09.00	18,0	34,1	-2,0	-4,0	2,0	18,0	34,0	-1,0	-2,0	2,0	18,0	34,0	0,0	-2,0	3,0	18,0	34,1	0,0	-4,0	2,0	
49	17/10/2012 08.30	14,0	34,1	-3,0	-3,0	2,0	14,0	34,0	-2,0	0,0	2,0	14,0	34,0	-2,0	-1,0	3,0	14,0	34,1	-2,0	-2,0	3,0	
50	07/11/2012 08.00	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 08.00	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														-2,0	3,0	
60	12/03/2013 08.30	10,0	34,1	-2,0	-5,0	2,0														-1,0	-4,0	3,0
61	19/03/2013 16.00	16,0	34,1	-1,0	-4,0	2,0														-1,0	-4,0	3,0
62	26/03/2013 08.30	13,0	34,1	-2,0	-3,0	-1,0														-3,0	-2,0	1,0
63	28/03/2013 11.00	15,0	34,1	-2,0	-4,0	0,0														-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</				

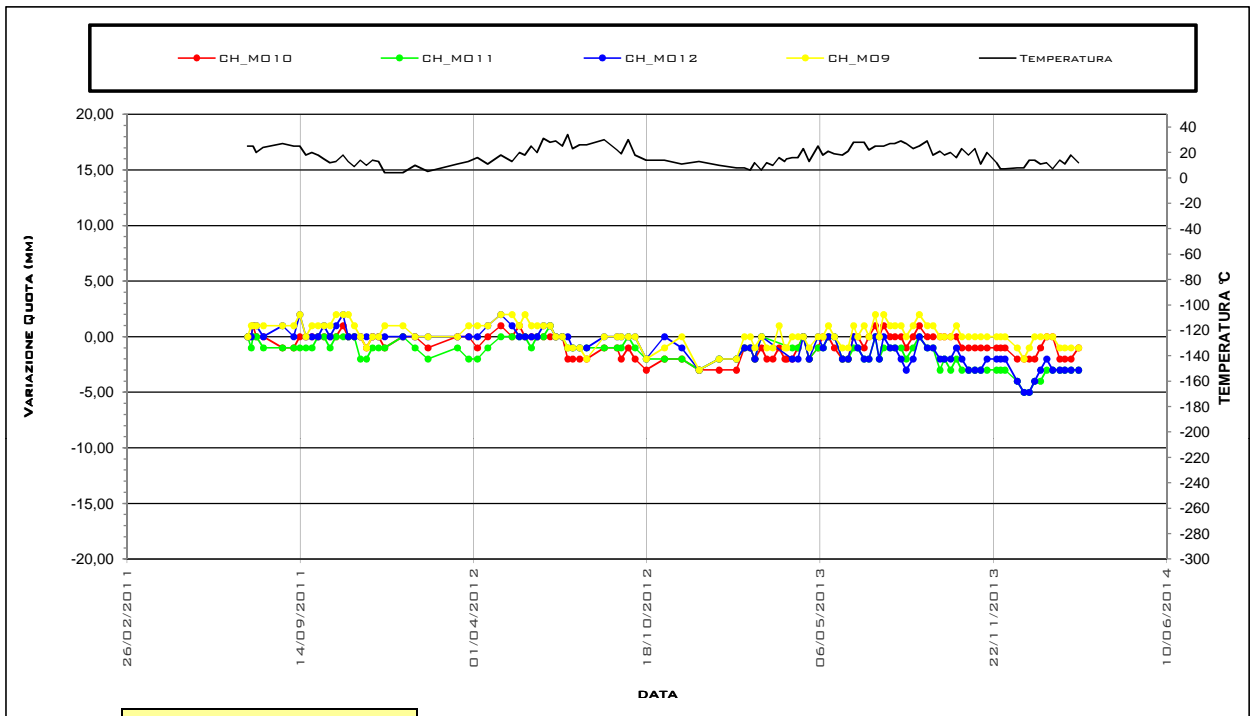


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ I Ordine di Tiranti \ 09-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 15/07/2011  
**Data lettura di zero** 15/07/2011

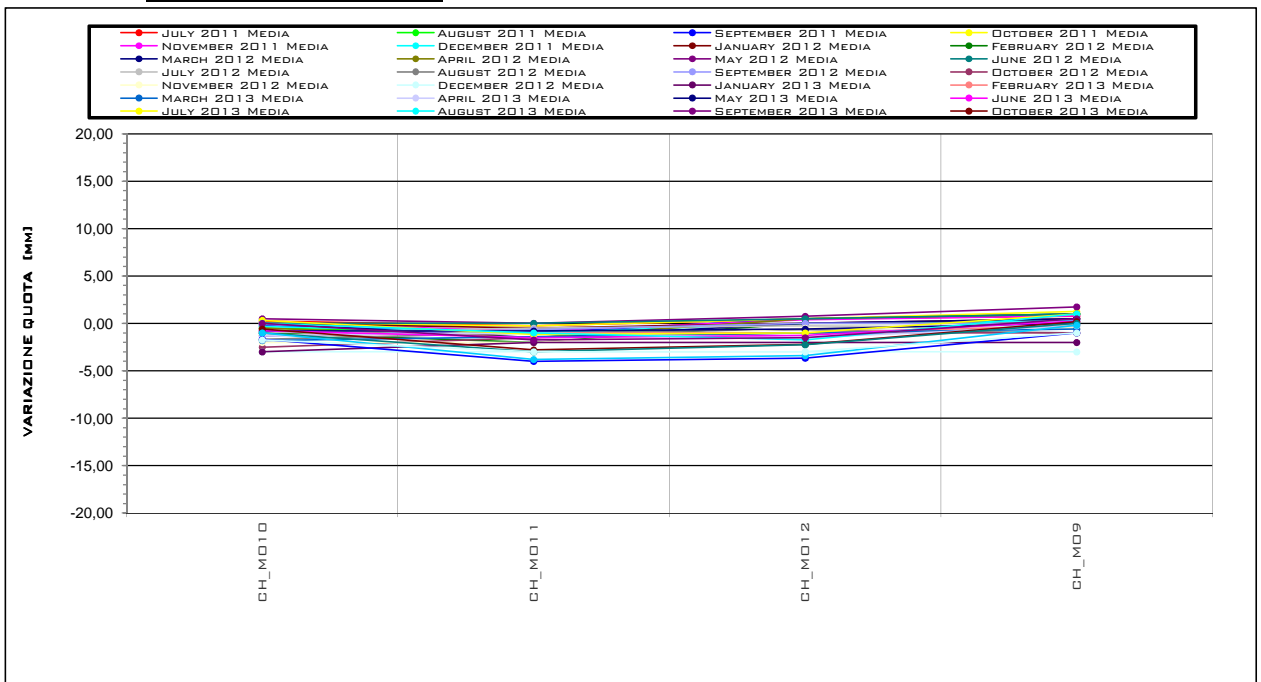
**UBICAZIONE**



**GRAFICO QUOTA**

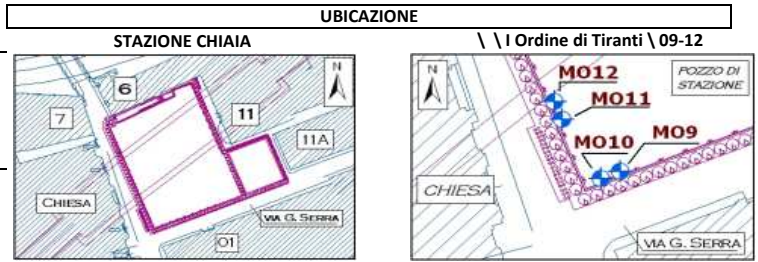


**GRAFICO ISOCRONE**

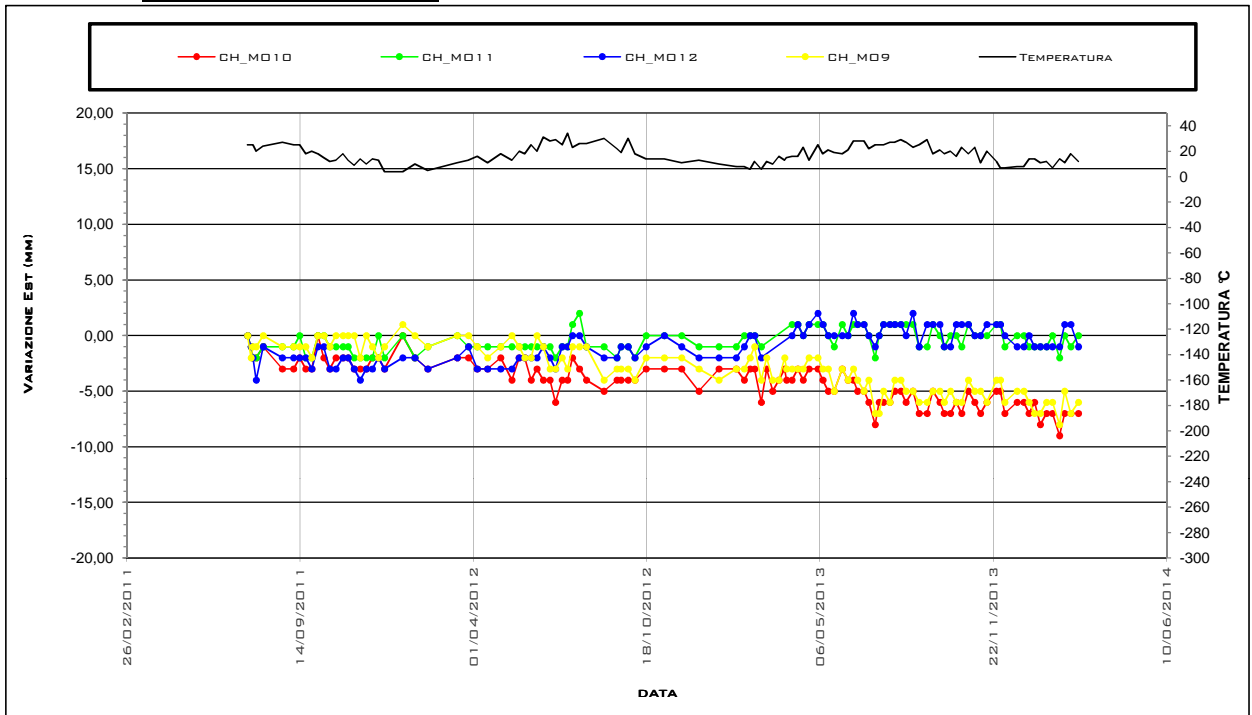




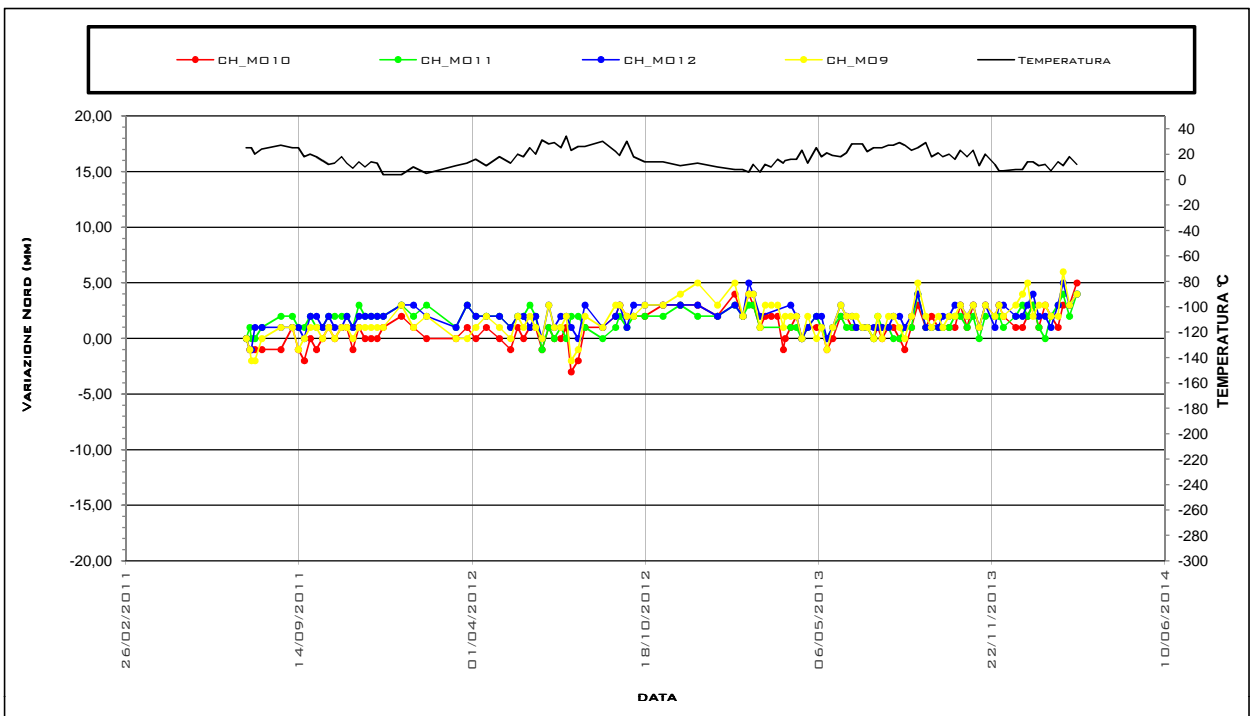
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ I Ordine di Tiranti \ 09-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 15/07/2011  
**Data lettura di zero** 15/07/2011



**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

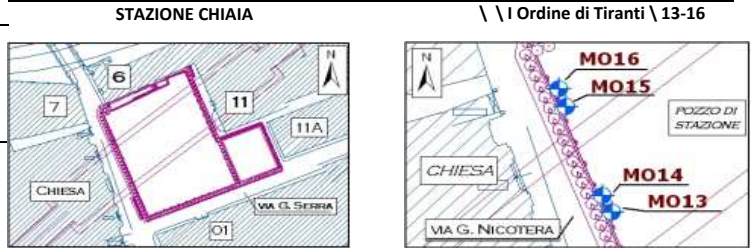
Ultima Misura 113 in data 28/02/2014

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23	13/12/2011 08.00	13.0	34.0	0.0	0.0	-1.0	13.0	34.0	1.0	0.0	0.0	13.0	34.6	0.0	0.0	0.0	13.0	34.6	1.0	2.0	1.0
24	20/12/2011 08.00	4.0	34.0	-1.0	-1.0	0.0	4.0	34.0	0.0	-1.0	1.0	4.0	34.6	0.0	0.0	2.0	4.0	34.6	0.0	0.0	3.0
25	10/01/2012 08.00	4.0	34.0	0.0	1.0	1.0	4.0	34.0	1.0	1.0	2.0	4.0	34.6	1.0	1.0	2.0	4.0	34.6	1.0	1.0	3.0
26	24/01/2012 08.00	10.0	34.0	-2.0	0.0	0.0	10.0	34.0	0.0	0.0	1.0	10.0	34.6	-1.0	1.0	1.0	10.0	34.6	-1.0	3.0	2.0
27	08/02/2012 08.00	5.0	34.0	-1.0	-1.0	0.0	5.0	34.0	0.0	-1.0	1.0	5.0	34.6	-1.0	1.0	2.0	5.0	34.6	-1.0	4.0	3.0
28	13/03/2012 08.00	11.0	34.0	0.0	1.0	-1.0	11.0	34.0	1.0	-1.0	-1.0	11.0	34.6	0.0	2.0	1.0	11.0	34.6	1.0	3.0	1.0
29	26/03/2012 08.00	13.0	34.0	-1.0	1.0	1.0	13.0	34.0	0.0	1.0	0.0	13.0	34.6	0.0	0.0	1.0	13.0	34.6	0.0	3.0	1.0
30	05/04/2012 08.00	16.0	34.0	-1.0	0.0	0.0	16.0	34.0	0.0	1.0	1.0	16.0	34.6	0.0	0.0	0.0	16.0	34.6	0.0	2.0	0.0
31	17/04/2012 08.00	11.0	34.0	-1.0	0.0	0.0	11.0	34.0	1.0	0.0	2.0	11.0	34.6	0.0	1.0	2.0	11.0	34.6	1.0	2.0	2.0
32	02/05/2012 10.30	18.0	34.0	0.0	-1.0	-2.0	18.0	34.0	2.0	0.0	0.0	18.0	34.6	2.0	1.0	0.0	18.0	34.6	1.0	1.0	0.0
33	15/05/2012 08.30	13.0	34.0	0.0	-1.0	-1.0	13.0	34.0	1.0	-1.0	-1.0	13.0	34.6	1.0	1.0	1.0	13.0	34.6	0.0	1.0	0.0
34	23/05/2012 17.30	20.0	34.0	-1.0	0.0	-1.0	20.0	34.0	1.0	1.0	1.0	20.0	34.6	1.0	0.0	2.0	20.0	34.6	1.0	1.0	1.0
35	30/05/2012 08.30	18.0	34.0	0.0	0.0	0.0	18.0	34.0	0.0	0.0	0.0	18.0	34.6	1.0	0.0	1.0	18.0	34.6	2.0	2.0	1.0
36	06/06/2012 16.30	25.0	34.0	0.0	-1.0	0.0	25.0	34.0	1.0	0.0	0.0	25.0	34.6	2.0	0.0	1.0	25.0	34.6	2.0	2.0	1.0
37	13/06/2012 08.30	20.0	34.0	0.0	0.0	0.0	20.0	34.0	1.0	0.0	1.0	20.0	34.6	2.0	1.0	2.0	20.0	34.6	2.0	2.0	1.0
38	20/06/2012 16.30	31.0	34.0	1.0	1.0	-2.0	31.0	34.0	2.0	1.0	-1.0	31.0	34.6	3.0	0.0	0.0	31.0	34.6	2.0	0.0	-1.0
39	28/06/2012 08.30	28.0	34.0	1.0	1.0	1.0	28.0	34.0	2.0	2.0	2.0	28.0	34.6	3.0	1.0	1.0	28.0	34.6	2.0	2.0	1.0
40	04/07/2012 09.30	29.0	34.0	0.0	1.0	0.0	29.0	34.0	0.0	0.0	0.0	29.0	34.6	2.0	0.0	1.0	29.0	34.6	2.0	0.0	0.0
41	12/07/2012 08.30	25.0	34.0	0.0	1.0	1.0	25.0	34.0	2.0	1.0	1.0	25.0	34.6	3.0	0.0	0.0	25.0	34.6	2.0	2.0	1.0
42	18/07/2012 16.30	34.0	34.0	0.0	1.0	-1.0	34.0	34.0	0.0	2.0	0.0	34.0	34.6	2.0	0.0	0.0	34.0	34.6	1.0	1.0	0.0
43	24/07/2012 09.00	23.0	34.0	-1.0	2.0	1.0	23.0	34.0	1.0	3.0	2.0	23.0	34.6	2.0	0.0	1.0	23.0	34.6	1.0	2.0	2.0
44	01/08/2012 09.00	26.0	34.0	-1.0	2.0	0.0	26.0	34.0	0.0	2.0	1.0	26.0	34.6	1.0	0.0	1.0	26.0	34.6	1.0	1.0	1.0
45	09/08/2012 08.30	26.0	34.0	-1.0	1.0	-1.0	26.0	34.0	0.0	1.0	1.0	26.0	34.6	2.0	-1.0	0.0	26.0	34.6	1.0	1.0	0.0
46	29/08/2012 16.00	30.0	34.0	-1.0	2.0	-1.0	30.0	34.0	0.0	1.0	1.0	30.0	34.6	1.0	0.0	0.0	30.0	34.6	1.0	2.0	0.0
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	2.0	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 07.00	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 10.30	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	3.0	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										

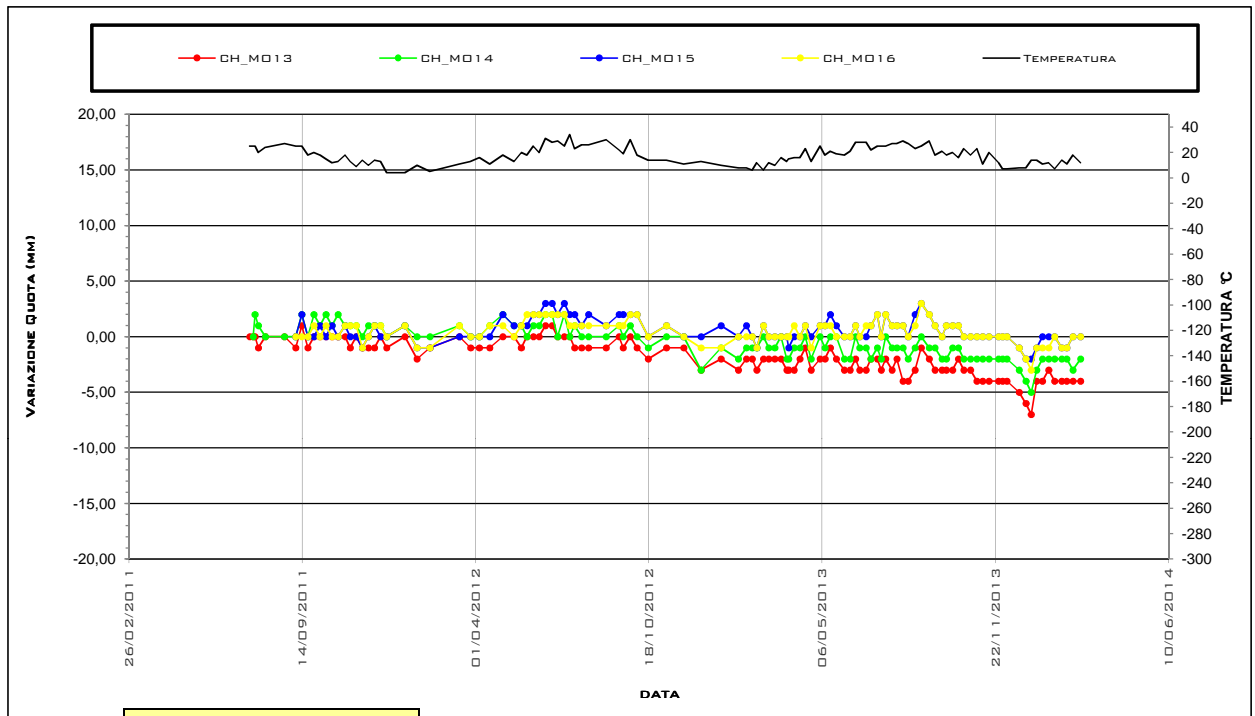


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ | Ordine di Tiranti \ 13-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 15/07/2011  
**Data lettura di zero** 15/07/2011

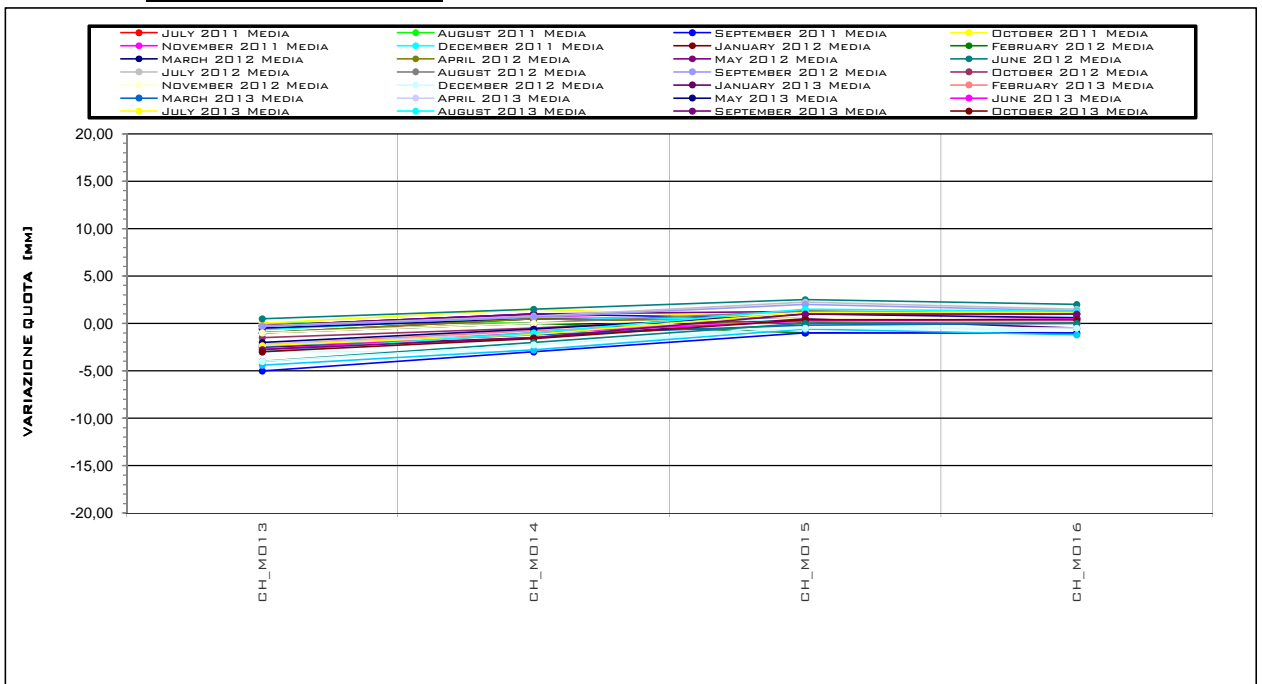
**UBICAZIONE**



**GRAFICO QUOTA**



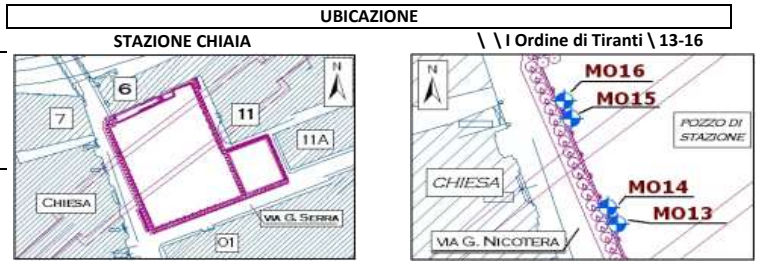
**GRAFICO ISOCRONE**



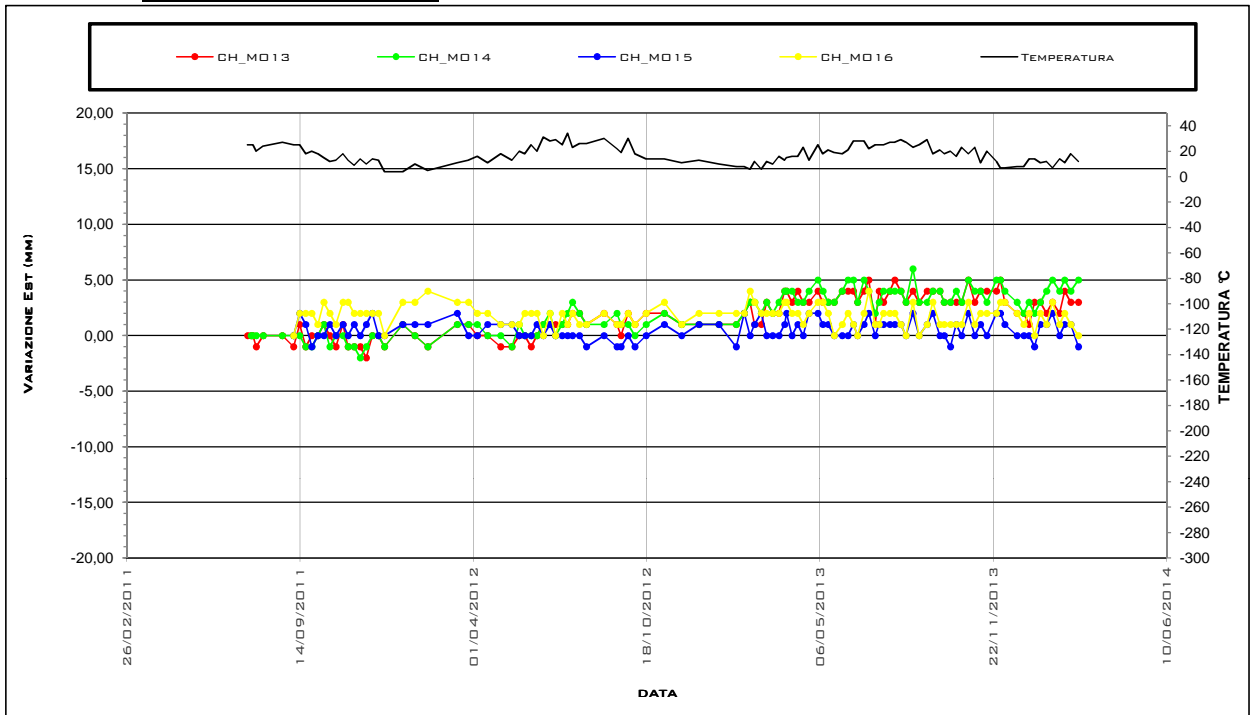




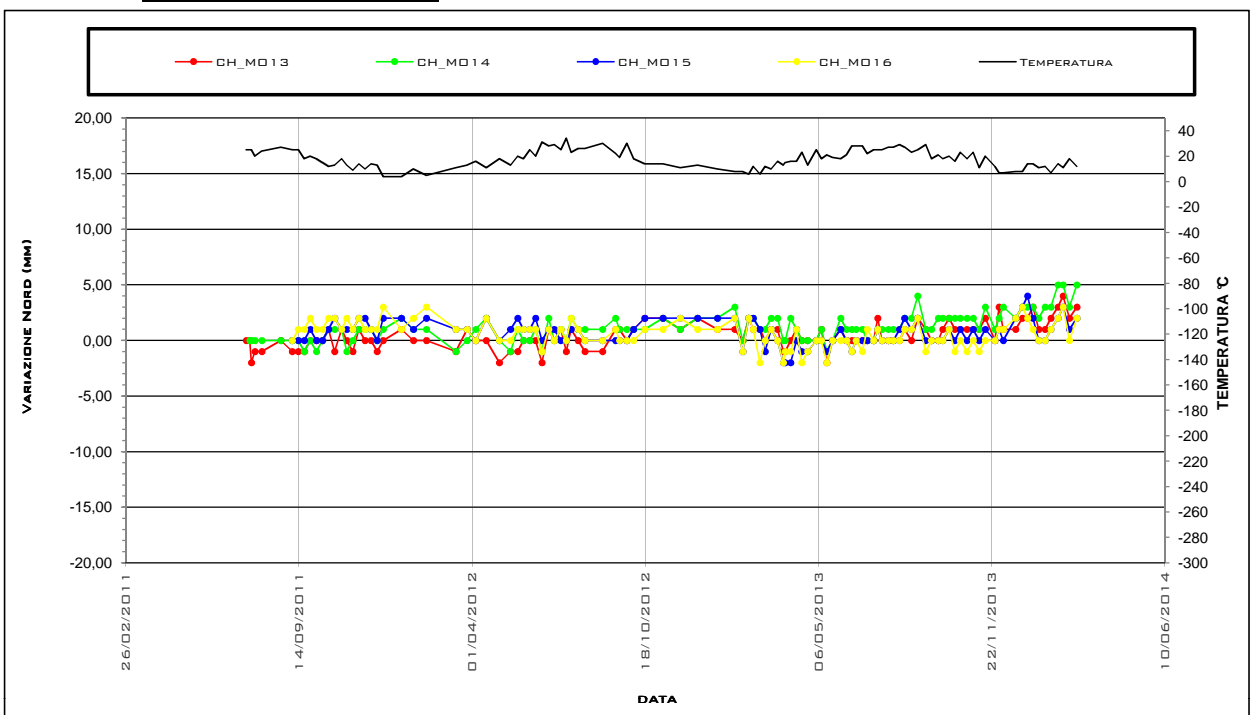
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ I Ordine di Tiranti \ 13-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 15/07/2011  
**Data lettura di zero** 15/07/2011



**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

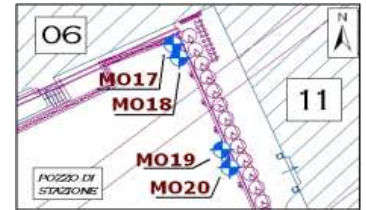
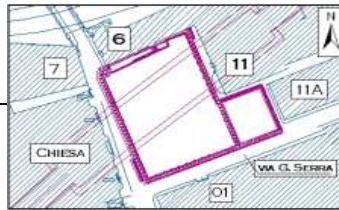
Ultima Misura 96 in data 28/02/2014

Lett. n°	DATA	CH_M017					CH_M018					CH_M019					CH_M020						
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6	20/12/2011 08.00																						
7	10/01/2012 08.00																						
8	24/01/2012 08.00																						
9	08/02/2012 08.00																						
10	13/03/2012 08.00																						
11	26/03/2012 08.00																						
12	05/04/2012 08.00																						
13	17/04/2012 08.00																						
14	17/04/2012 08.01	11.0	26.5	0,0	0,0	0,0	11.0	26.4	0,0	0,0	0,0	11.0	26.7	0,0	0,0	0,0	11.0	26.7	0,0	0,0	0,0	0,0	0,0
15	02/05/2012 10.30	18.0	26.5	1,0	0,0	1,0	18.0	26.4	1,0	1,0	1,0	18.0	28.7	1,0	0,0	2,0	18.0	28.7	1,0	-1,0	0,0	0,0	
16	15/05/2012 08.30	13.0	26.5	0,0	0,0	2,0	13.0	26.4	0,0	3,0	3,0	13.0	28.7	0,0	0,0	3,0	13.0	28.7	0,0	-1,0	0,0	0,0	
17	23/05/2012 17.30	20.0	26.5	1,0	2,0	0,0	20.0	26.4	1,0	2,0	1,0	20.0	28.7	0,0	1,0	1,0	20.0	28.7	0,0	0,0	0,0	-1,0	
18	30/05/2012 08.30	18.0	26.5	0,0	2,0	2,0	18.0	26.4	1,0	3,0	3,0	18.0	28.7	0,0	0,0	2,0	18.0	28.7	1,0	0,0	0,0	0,0	
19	06/06/2012 16.30	25.0	26.5	0,0	0,0	2,0	25.0	26.4	0,0	2,0	2,0	25.0	28.7	-1,0	-1,0	2,0	25.0	28.7	0,0	-3,0	0,0	0,0	
20	13/06/2012 08.30	20.0	26.5	0,0	2,0	2,0	20.0	26.4	0,0	3,0	1,0	20.0	28.7	-1,0	2,0	2,0	20.0	28.7	1,0	-1,0	0,0	0,0	
21	20/06/2012 16.30	31.0	26.5	1,0	2,0	2,0	31.0	26.4	1,0	3,0	2,0	31.0	28.7	0,0	1,0	1,0	31.0	28.7	1,0	0,0	0,0	-1,0	
22	28/06/2012 08.30	28.0	26.5	0,0	2,0	2,0	28.0	26.4	1,0	3,0	1,0	28.0	28.7	0,0	0,0	1,0	28.0	28.7	-1,0	0,0	0,0	0,0	
23	04/07/2012 19.30	29.0	26.5	0,0	3,0	2,0	29.0	26.4	1,0	3,0	3,0	29.0	28.7	0,0	0,0	2,0	29.0	28.7	0,0	0,0	0,0	0,0	
24	12/07/2012 08.30	25.0	26.5	0,0	2,0	2,0	25.0	26.4	0,0	4,0	2,0	25.0	28.7	-1,0	1,0	2,0	25.0	28.7	0,0	0,0	0,0	0,0	
25	18/07/2012 16.30	34.0	26.5	0,0	1,0	1,0	34.0	26.4	1,0	2,0	1,0	34.0	28.7	0,0	1,0	0,0	34.0	28.7	0,0	0,0	0,0	-1,0	
26	24/07/2012 09.00	23.0	26.5	-1,0	1,0	2,0	23.0	26.4	-1,0	2,0	2,0	23.0	28.7	-1,0	1,0	1,0	23.0	28.7	-1,0	0,0	0,0	-1,0	
27	01/08/2012 08.00	26.0	26.5	-2,0	2,0	3,0	26.0	26.4	-1,0	2,0	2,0	26.0	28.7	-1,0	2,0	2,0	26.0	28.7	0,0	0,0	0,0	0,0	
28	09/08/2012 08.30	26.0	26.5	0,0	1,0	1,0	26.0	26.4	0,0	2,0	2,0	26.0	28.7	1,0	0,0	1,0	26.0	28.7	1,0	-1,0	-1,0	-1,0	
29	29/08/2012 16.30	30.0	26.5	-1,0	2,0	2,0	30.0	26.4	-1,0	3,0	2,0	30.0	28.7	0,0	1,0	2,0	30.0	28.7	0,0	0,0	0,0	-1,0	
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	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	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	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	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	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	-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	-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	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	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	-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	-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	0,0	-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	-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	-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	-1,0	
45	12/03/2013 08.30	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	-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	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	-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	-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	-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	-1,0	
51	16/04/2013 23.00	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	-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	-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	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	-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	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	-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	0,0	0,0	18.0	28.7	1,0	-1,0	-2,0	-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	-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	-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	-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	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	-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								

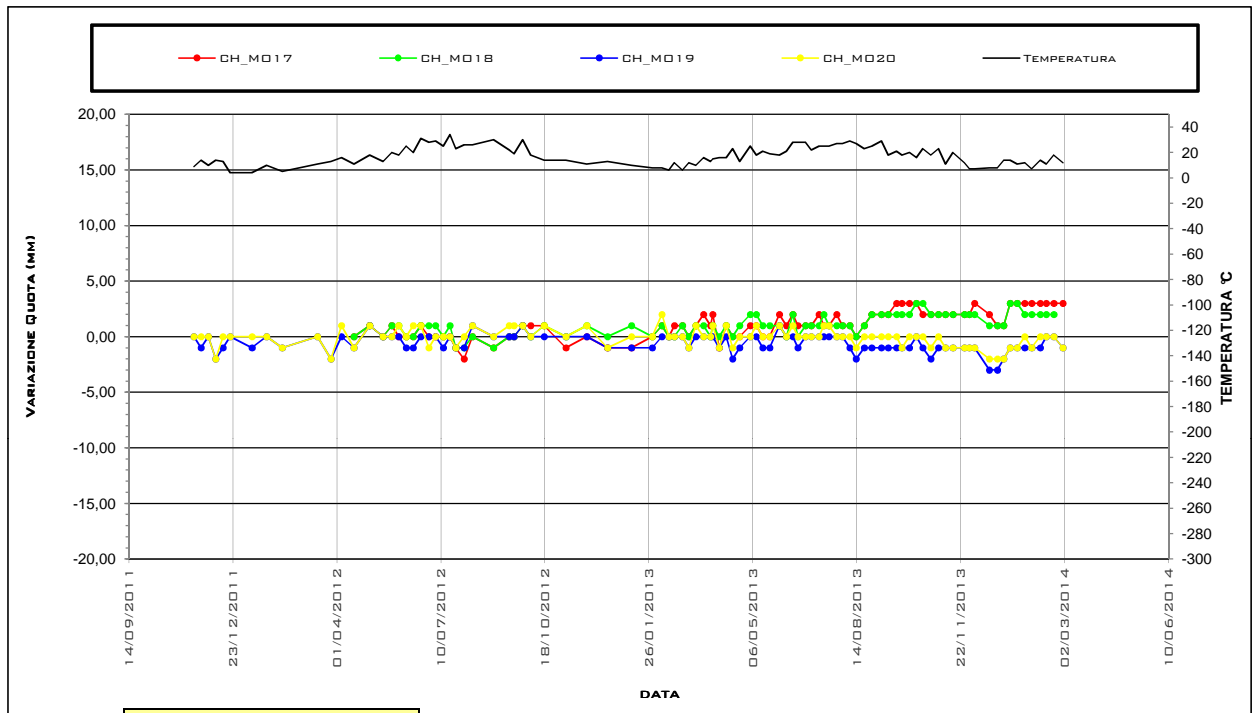


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Il Ordine di Tiranti \ 17-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 17/04/2012  
**Data lettura di zero** 17/04/2012

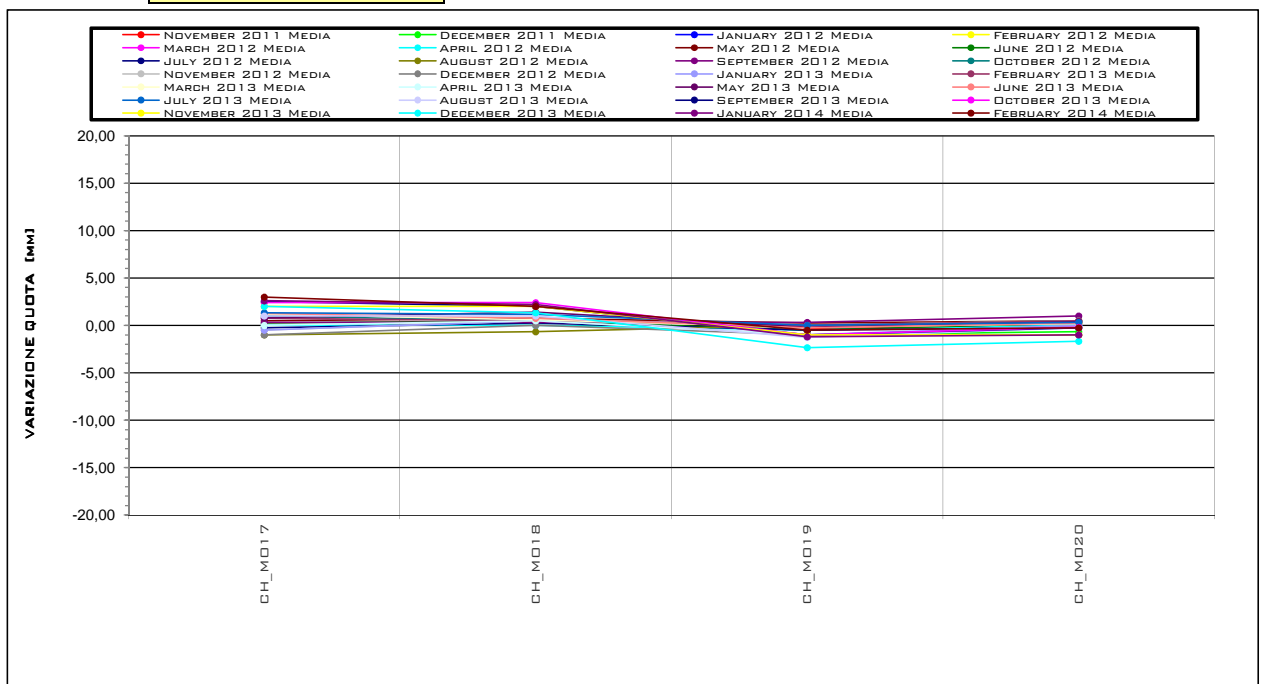
**UBICAZIONE**  
STAZIONE CHIAIA \ \ Il Ordine di Tiranti \ 17-20



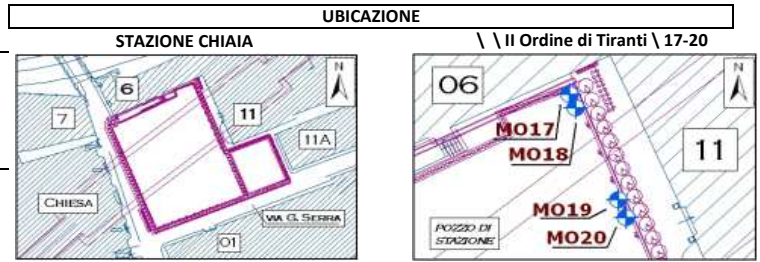
**GRAFICO QUOTA**



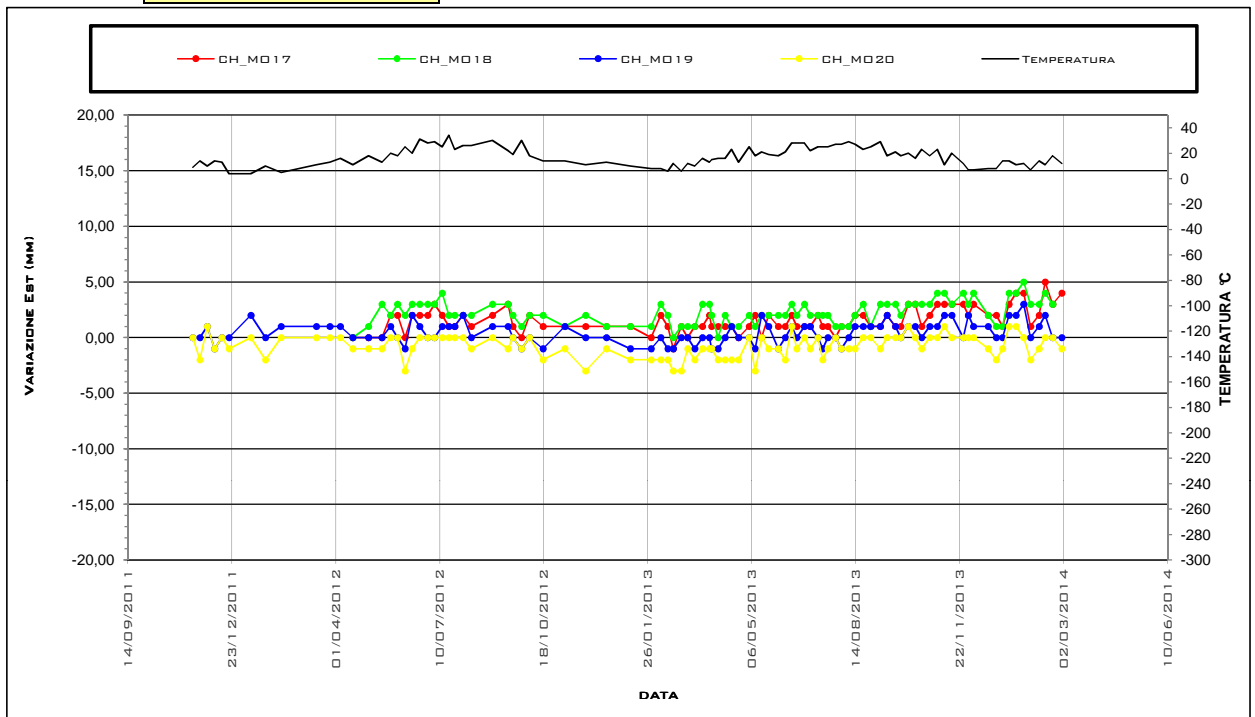
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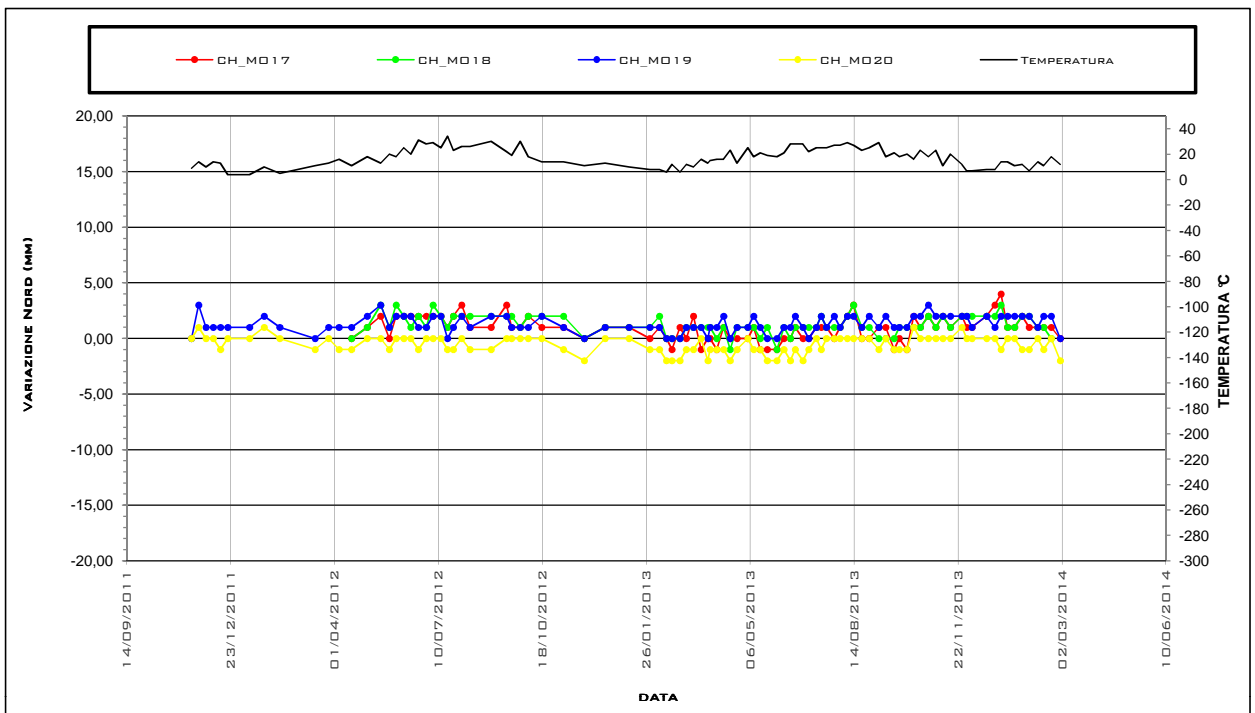
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Il Ordine di Tiranti \ 17-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 17/04/2012  
**Data lettura di zero** 17/04/2012



**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 107 in data 28/02/2014

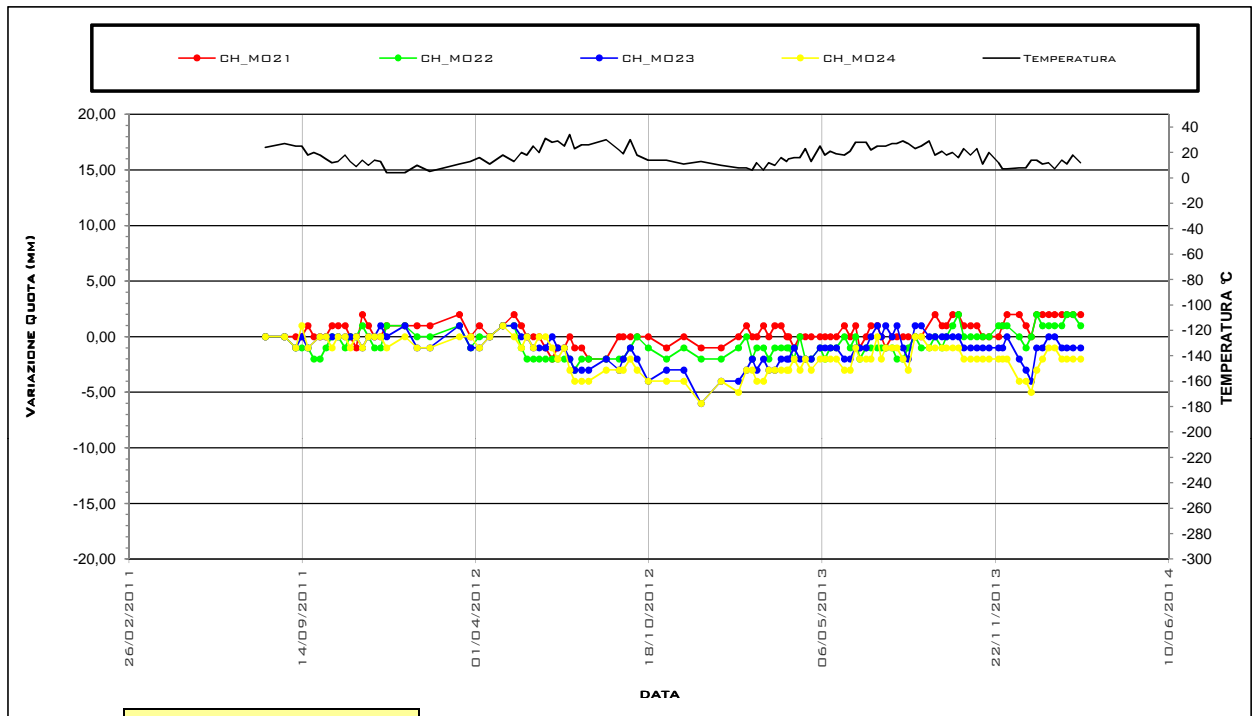
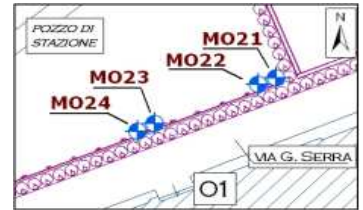
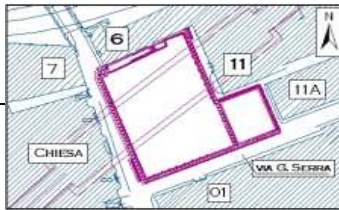
Lett. n°	DATA	CH_M021					CH_M022					CH_M023					CH_M024				
		Temp. Media[°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media[°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media[°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media[°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]
17	13/12/2011 08.00	13,0	28,9	0,0	1,0	0,0	13,0	28,9	-1,0	-1,0	0,0	13,0	28,8	1,0	-2,0	3,0	13,0	28,8	0,0	-2,0	3,0
18	20/12/2011 08.00	4,0	28,9	1,0	0,0	0,0	4,0	28,9	1,0	-3,0	1,0	4,0	28,8	0,0	-3,0	4,0	4,0	28,8	-1,0	-3,0	2,0
19	10/01/2012 08.00	4,0	28,9	1,0	2,0	1,0	4,0	28,9	1,0	1,0	1,0	4,0	28,8	1,0	-2,0	5,0	4,0	28,8	0,0	-1,0	4,0
20	24/01/2012 08.00	10,0	28,9	1,0	0,0	2,0	10,0	28,9	0,0	-1,0	2,0	10,0	28,8	-1,0	-2,0	4,0	10,0	28,8	-1,0	-2,0	3,0
21	08/02/2012 08.00	5,0	28,9	1,0	0,0	0,0	5,0	28,9	0,0	-1,0	0,0	5,0	28,8	-1,0	-3,0	3,0	5,0	28,8	-1,0	-3,0	2,0
22	13/03/2012 08.00	11,0	28,9	2,0	-1,0	-1,0	11,0	28,9	1,0	-3,0	-1,0	11,0	28,8	1,0	-2,0	2,0	11,0	28,8	0,0	-2,0	2,0
23	26/03/2012 08.00	13,0	28,9	0,0	2,0	1,0	13,0	28,9	-1,0	2,0	1,0	13,0	28,8	-1,0	-3,0	3,0	13,0	28,8	0,0	-2,0	3,0
24	05/04/2012 08.00	16,0	28,9	1,0	1,0	1,0	16,0	28,9	0,0	0,0	1,0	16,0	28,8	-1,0	-2,0	2,0	16,0	28,8	-1,0	-2,0	3,0
25	17/04/2012 08.00	11,0	28,9	0,0	1,0	0,0	11,0	28,9	0,0	0,0	0,0	11,0	28,8	0,0	-4,0	3,0	11,0	28,8	0,0	-3,0	3,0
26	02/05/2012 10.30	18,0	28,9	1,0	1,0	2,0	18,0	28,9	1,0	-1,0	2,0	18,0	28,8	1,0	-3,0	3,0	18,0	28,8	1,0	-2,0	2,0
27	15/05/2012 08.30	13,0	28,9	2,0	-1,0	2,0	13,0	28,9	1,0	-2,0	1,0	13,0	28,8	1,0	-4,0	2,0	13,0	28,8	0,0	-3,0	2,0
28	23/05/2012 17.30	20,0	28,9	1,0	5,0	2,0	20,0	28,9	-1,0	3,0	2,0	20,0	28,8	0,0	-3,0	4,0	20,0	28,8	-1,0	-3,0	4,0
29	30/05/2012 08.30	18,0	28,9	0,0	1,0	2,0	18,0	28,9	-2,0	0,0	2,0	18,0	28,8	0,0	-4,0	4,0	18,0	28,8	0,0	-3,0	3,0
30	06/06/2012 16.30	25,0	28,9	0,0	-1,0	2,0	25,0	28,9	-2,0	-2,0	2,0	25,0	28,8	-1,0	-4,0	5,0	25,0	28,8	-1,0	-4,0	4,0
31	13/06/2012 08.30	20,0	28,9	0,0	4,0	4,0	20,0	28,9	-2,0	3,0	5,0	20,0	28,8	-1,0	-4,0	5,0	20,0	28,8	0,0	-4,0	4,0
32	20/06/2012 16.30	31,0	28,9	-1,0	3,0	2,0	31,0	28,9	-2,0	1,0	2,0	31,0	28,8	-1,0	-4,0	3,0	31,0	28,8	0,0	-4,0	2,0
33	28/06/2012 08.30	28,0	28,9	-2,0	3,0	3,0	28,0	28,9	-2,0	2,0	4,0	28,0	28,8	0,0	-5,0	6,0	28,0	28,8	-1,0	-4,0	5,0
34	04/07/2012 19.30	29,0	28,9	-1,0	1,0	3,0	29,0	28,9	-2,0	-1,0	3,0	29,0	28,8	-1,0	-6,0	4,0	29,0	28,8	-2,0	-5,0	3,0
35	12/07/2012 08.30	25,0	28,9	-1,0	2,0	3,0	25,0	28,9	-2,0	0,0	4,0	25,0	28,8	-1,0	-4,0	6,0	25,0	28,8	-1,0	-3,0	6,0
36	18/07/2012 16.30	34,0	28,9	0,0	4,0	4,0	34,0	28,9	-2,0	3,0	4,0	34,0	28,8	-2,0	-4,0	5,0	34,0	28,8	-3,0	-4,0	5,0
37	24/07/2012 09.00	23,0	28,9	-1,0	3,0	1,0	23,0	28,9	-3,0	3,0	2,0	23,0	28,8	-3,0	-1,0	4,0	23,0	28,8	-4,0	-1,0	4,0
38	01/08/2012 09.00	26,0	28,9	-1,0	4,0	2,0	26,0	28,9	-2,0	4,0	3,0	26,0	28,8	-3,0	-1,0	4,0	26,0	28,8	-4,0	-1,0	3,0
39	09/08/2012 08.30	26,0	28,9	-2,0	2,0	2,0	26,0	28,9	-2,0	-1,0	3,0	26,0	28,8	-3,0	-5,0	7,0	26,0	28,8	-4,0	-4,0	6,0
40	29/08/2012 16.00	30,0	28,9	-2,0	3,0	2,0	30,0	28,9	-2,0	0,0	4,0	30,0	28,8	-2,0	-5,0	6,0	30,0	28,8	-3,0	-4,0	5,0
41	13/09/2012 15.00	22,0	28,9	0,0	3,0	4,0	22,0	28,9	-2,0	1,0	6,0	22,0	28,8	-3,0	-6,0	6,0	22,0	28,8	-3,0	-5,0	6,0
42	18/09/2012 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 08.00	14,0	28,9	-1,0	3,0	4,0	14,0	28,9	-2,0	1,0	5,0	14,0	28,8	-3,0	-4,0	8,0	14,0	28,8	-4,0	-3,0	7,0
47	27/11/2012 08.30	11,0	28,9	0,0	-2,0	2,0	11,0	28,9	-1,0	-3,0	3,0	11,0	28,8	-3,0	-5,0	8,0	11,0	28,8	-4,0	-5,0	8,0
48	17/12/2012 08.00	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 08.00	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 08.00	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 08.00	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	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	-2,0	-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,												



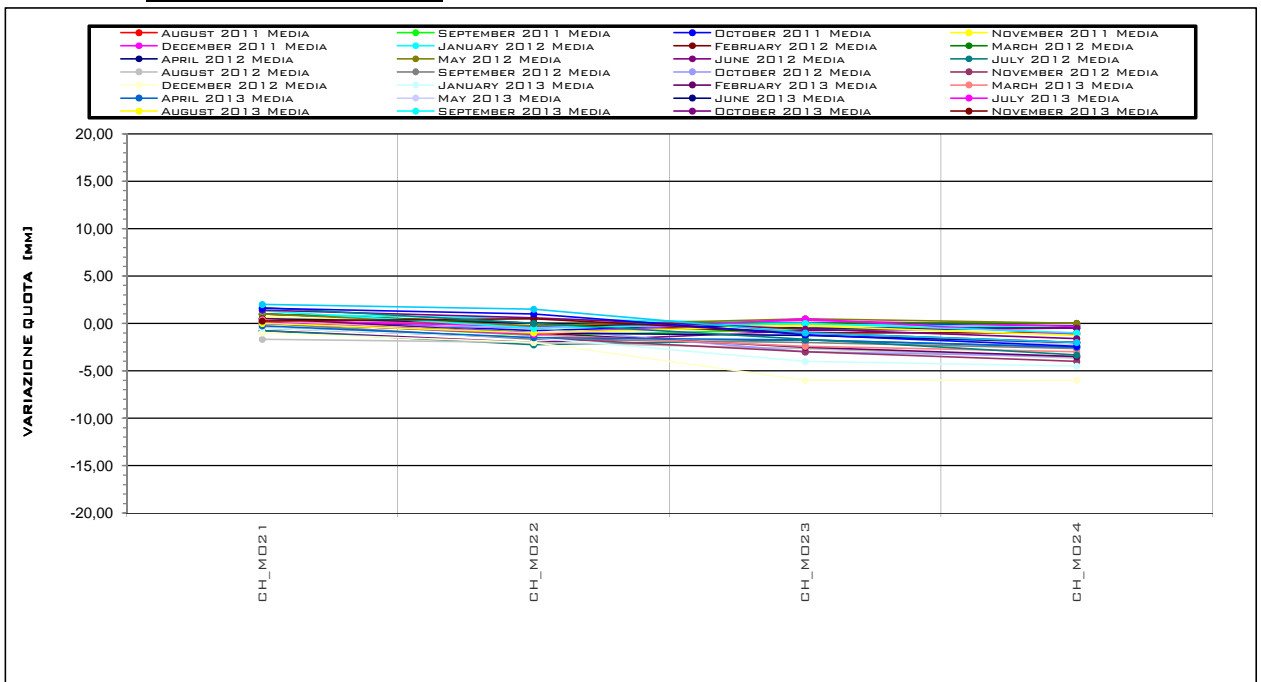
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Il Ordine di Tiranti \ 21-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 02/08/2011  
**Data lettura di zero** 02/08/2011

**GRAFICO QUOTA**

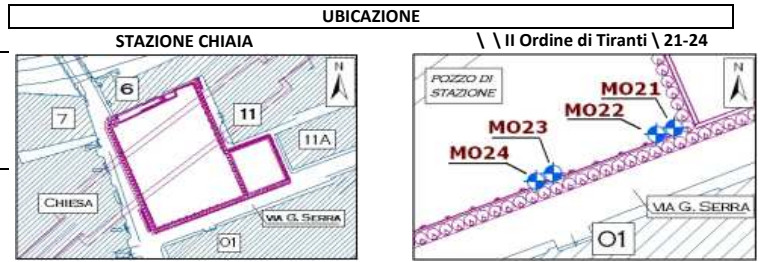
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**STAZIONE CHIAIA** \ \ Il Ordine di Tiranti \ 21-24



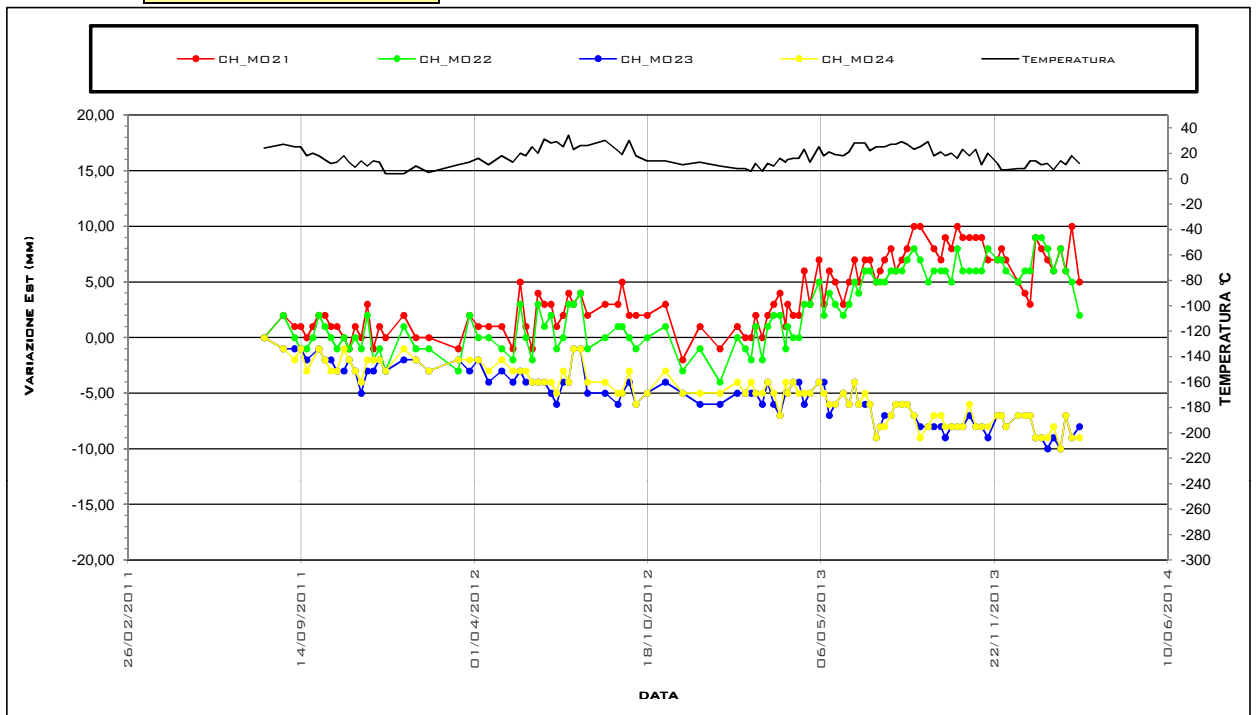
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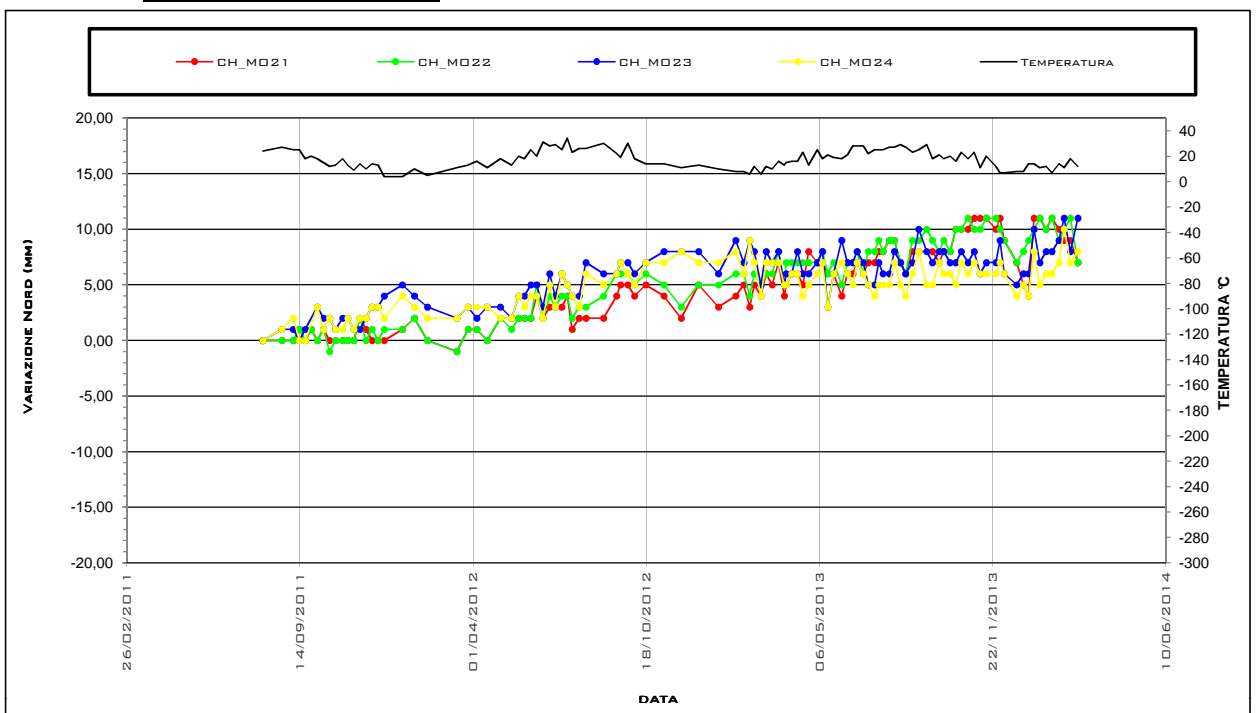
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Il Ordine di Tiranti \ 21-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 02/08/2011  
**Data lettura di zero** 02/08/2011



**GRAFICO EST**



**GRAFICO NORD**





**Ubicazione STAZIONE CHIAIA**

Opera \ \ II Ordine di Tiranti \ 25-28

Tipo Strumento Mire Ottiche

Data posa in opera 25/07/2011

Data lettura di zero 25/07/2011

Ultima Misura 109 in data 28/02/2014

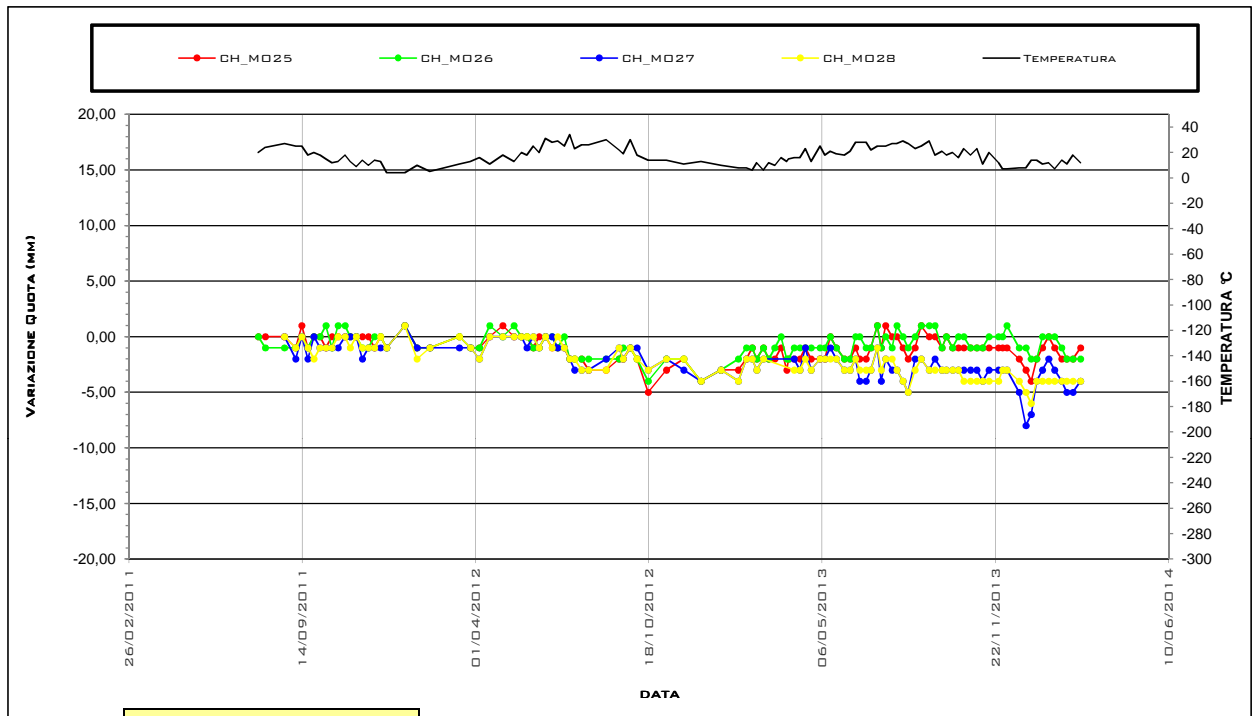
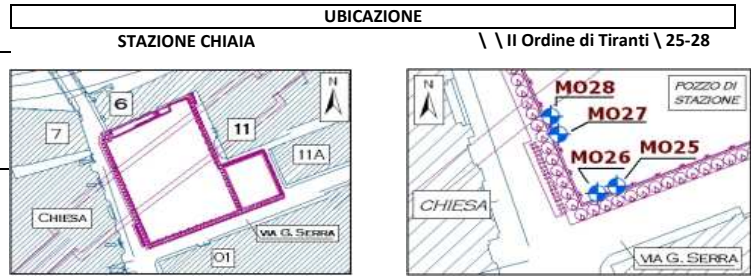
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		Temp. Media[°C]	Quota [m]	Quota Spost.[mm]	Est. Spost.[mm]	Nord Spost.[mm]	Temp. Media[°C]	Quota [m]	Quota Spost.[mm]	Est. Spost.[mm]	Nord Spost.[mm]	Temp. Media[°C]	Quota [m]	Quota Spost.[mm]	Est. Spost.[mm]	Nord Spost.[mm]	Temp. Media[°C]	Quota [m]	Quota Spost.[mm]	Est. Spost.[mm]	Nord Spost.[mm]
19	13/12/2011 08.00	13.0	29.9	0.0	1.0	3.0	13.0	30.0	0.0	1.0	2.0	13.0	29.8	-1.0	0.0	1.0	13.0	29.8	0.0	0.0	-1.0
20	20/12/2011 08.00	4.0	29.9	-1.0	1.0	3.0	4.0	30.0	-1.0	1.0	3.0	4.0	29.8	-1.0	-1.0	0.0	4.0	29.8	-1.0	-3.0	0.0
21	10/01/2012 08.00	4.0	29.9	1.0	2.0	4.0	4.0	30.0	1.0	2.0	4.0	4.0	29.8	1.0	0.0	3.0	4.0	29.8	1.0	0.0	2.0
22	24/01/2012 08.00	10.0	29.9	-1.0	1.0	3.0	10.0	30.0	-1.0	1.0	3.0	10.0	29.8	-1.0	-2.0	1.0	10.0	29.8	-2.0	0.0	0.0
23	08/02/2012 08.00	5.0	29.9	-1.0	1.0	3.0	5.0	30.0	-1.0	1.0	4.0	5.0	29.8	-1.0	-2.0	1.0	5.0	29.8	-1.0	-1.0	0.0
24	13/03/2012 08.00	11.0	29.9	0.0	2.0	2.0	11.0	30.0	0.0	1.0	2.0	11.0	29.8	-1.0	0.0	-1.0	11.0	29.8	0.0	-1.0	-1.0
25	26/03/2012 08.00	13.0	29.9	-1.0	1.0	3.0	13.0	30.0	-1.0	1.0	3.0	13.0	29.8	-1.0	0.0	2.0	13.0	29.8	-1.0	0.0	0.0
26	05/04/2012 08.00	16.0	29.9	-1.0	1.0	3.0	16.0	30.0	-1.0	1.0	3.0	16.0	29.8	-2.0	-2.0	0.0	16.0	29.8	-2.0	-1.0	0.0
27	17/04/2012 08.00	11.0	29.9	0.0	1.0	4.0	11.0	30.0	1.0	-1.0	3.0	11.0	29.8	0.0	-2.0	1.0	11.0	29.8	0.0	-2.0	1.0
28	02/05/2012 10.30	18.0	29.9	1.0	1.0	3.0	18.0	30.0	0.0	0.0	2.0	18.0	29.8	0.0	-1.0	0.0	18.0	29.8	0.0	-1.0	-1.0
29	15/05/2012 08.30	13.0	29.9	0.0	1.0	4.0	13.0	30.0	1.0	0.0	2.0	13.0	29.8	0.0	-2.0	-1.0	13.0	29.8	0.0	-2.0	-1.0
30	23/05/2012 17.30	20.0	29.9	0.0	1.0	4.0	20.0	30.0	0.0	0.0	3.0	20.0	29.8	0.0	0.0	0.0	20.0	29.8	0.0	0.0	0.0
31	30/05/2012 08.30	18.0	29.9	0.0	0.0	4.0	18.0	30.0	0.0	0.0	2.0	18.0	29.8	-1.0	0.0	0.0	18.0	29.8	0.0	0.0	0.0
32	06/06/2012 16.30	25.0	29.9	-1.0	0.0	5.0	25.0	30.0	-1.0	-1.0	2.0	25.0	29.8	0.0	1.0	1.0	25.0	29.8	0.0	1.0	0.0
33	13/06/2012 08.30	20.0	29.9	0.0	0.0	5.0	20.0	30.0	-1.0	-1.0	4.0	20.0	29.8	-1.0	0.0	0.0	20.0	29.8	-1.0	0.0	0.0
34	20/06/2012 16.30	31.0	29.9	0.0	0.0	3.0	31.0	30.0	0.0	-1.0	2.0	31.0	29.8	0.0	1.0	-2.0	31.0	29.8	0.0	1.0	-1.0
35	28/06/2012 08.30	28.0	29.9	-1.0	0.0	6.0	28.0	30.0	0.0	-1.0	5.0	28.0	29.8	0.0	1.0	1.0	28.0	29.8	-1.0	1.0	1.0
36	04/07/2012 19.30	29.0	29.9	-1.0	-2.0	4.0	29.0	30.0	-1.0	-4.0	3.0	29.0	29.8	-1.0	-1.0	0.0	29.0	29.8	0.0	0.0	0.0
37	12/07/2012 08.30	25.0	29.9	-1.0	1.0	6.0	25.0	30.0	0.0	0.0	4.0	25.0	29.8	-1.0	1.0	0.0	25.0	29.8	-1.0	0.0	1.0
38	18/07/2012 16.30	34.0	29.9	-2.0	0.0	6.0	34.0	30.0	-2.0	-2.0	5.0	34.0	29.8	-2.0	1.0	0.0	34.0	29.8	-2.0	2.0	-1.0
39	24/07/2012 09.00	23.0	29.9	-2.0	2.0	4.0	23.0	30.0	-2.0	1.0	2.0	23.0	29.8	-3.0	1.0	0.0	23.0	29.8	-2.0	2.0	-1.0
40	01/08/2012 09.00	26.0	29.9	-2.0	1.0	3.0	26.0	30.0	-2.0	0.0	3.0	26.0	29.8	-3.0	1.0	0.0	26.0	29.8	-3.0	2.0	0.0
41	09/08/2012 08.30	26.0	29.9	-3.0	-1.0	7.0	26.0	30.0	-2.0	-1.0	5.0	26.0	29.8	-3.0	0.0	1.0	26.0	29.8	-3.0	1.0	1.0
42	29/08/2012 16.00	30.0	29.9	-3.0	0.0	5.0	30.0	30.0	-2.0	-2.0	4.0	30.0	29.8	-2.0	1.0	0.0	30.0	29.8	-3.0	2.0	0.0
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 10.00	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 15.30	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	



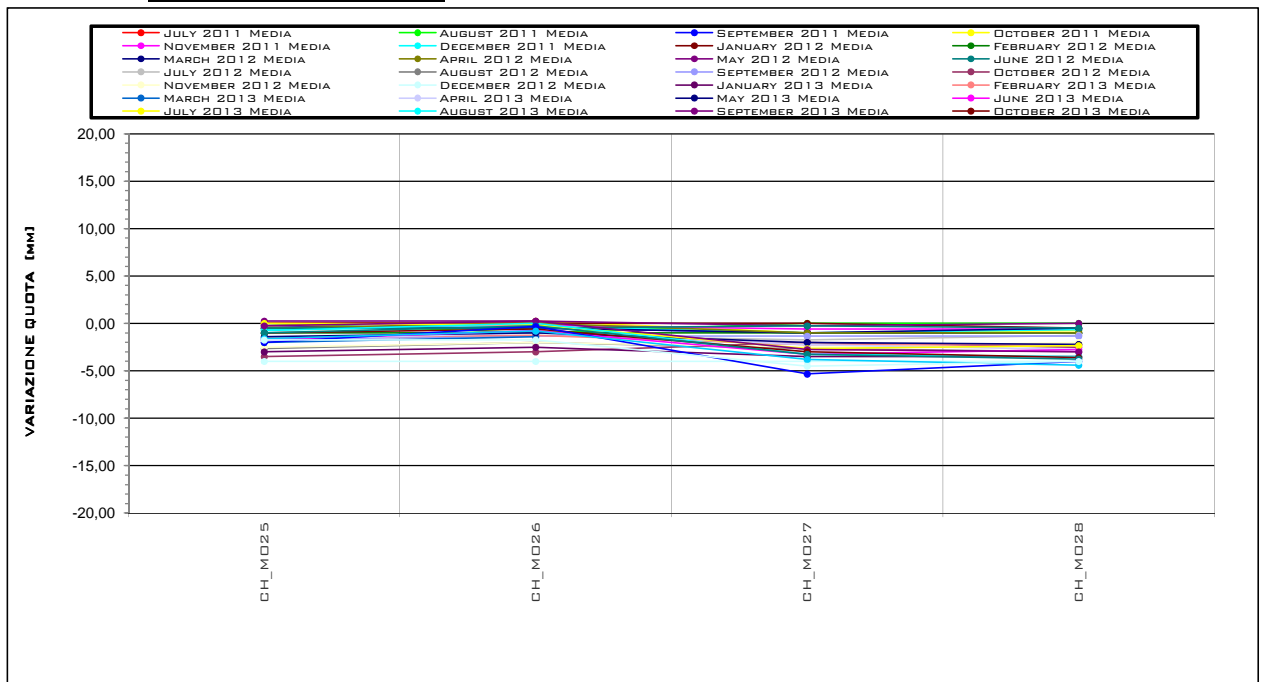


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Il Ordine di Tiranti \ 25-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 25/07/2011  
**Data lettura di zero** 25/07/2011

**GRAFICO QUOTA**

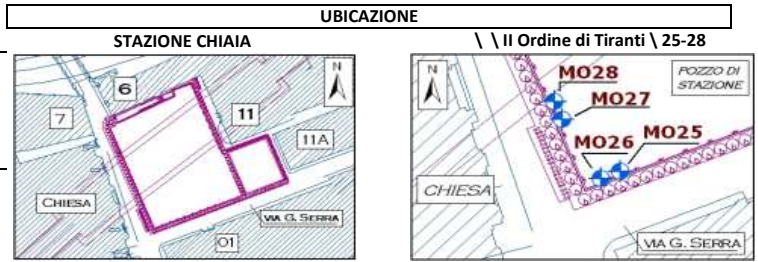


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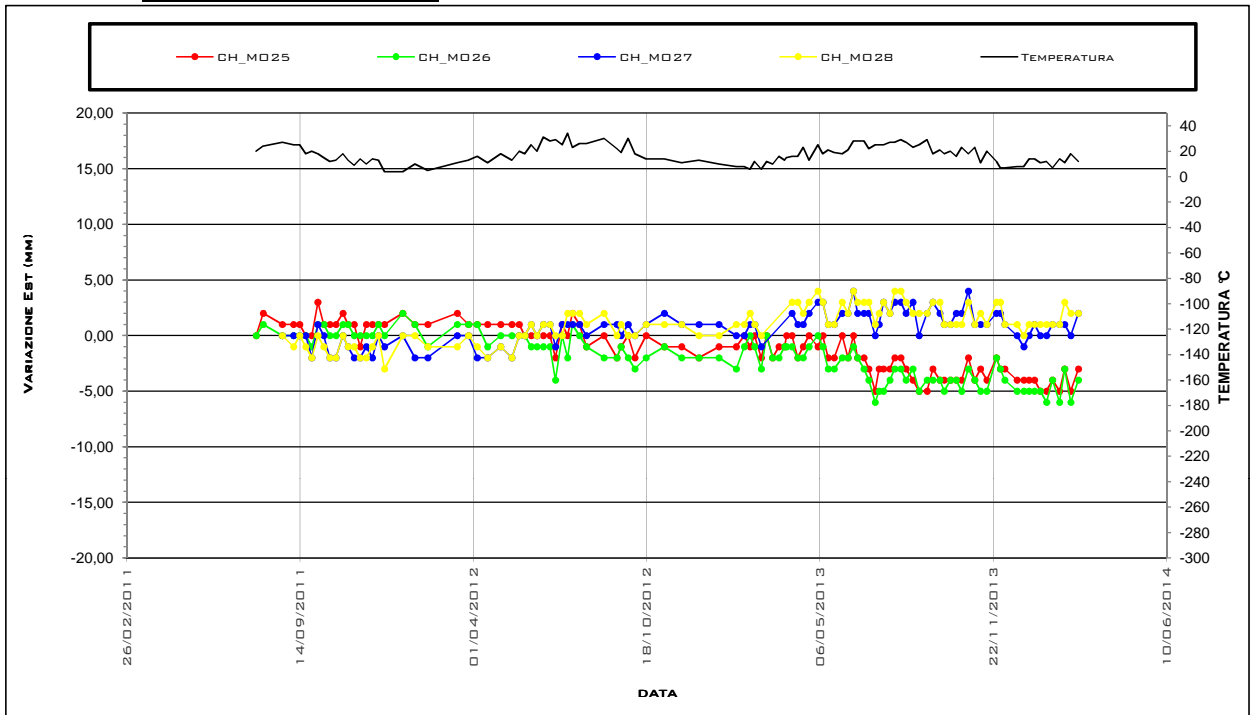




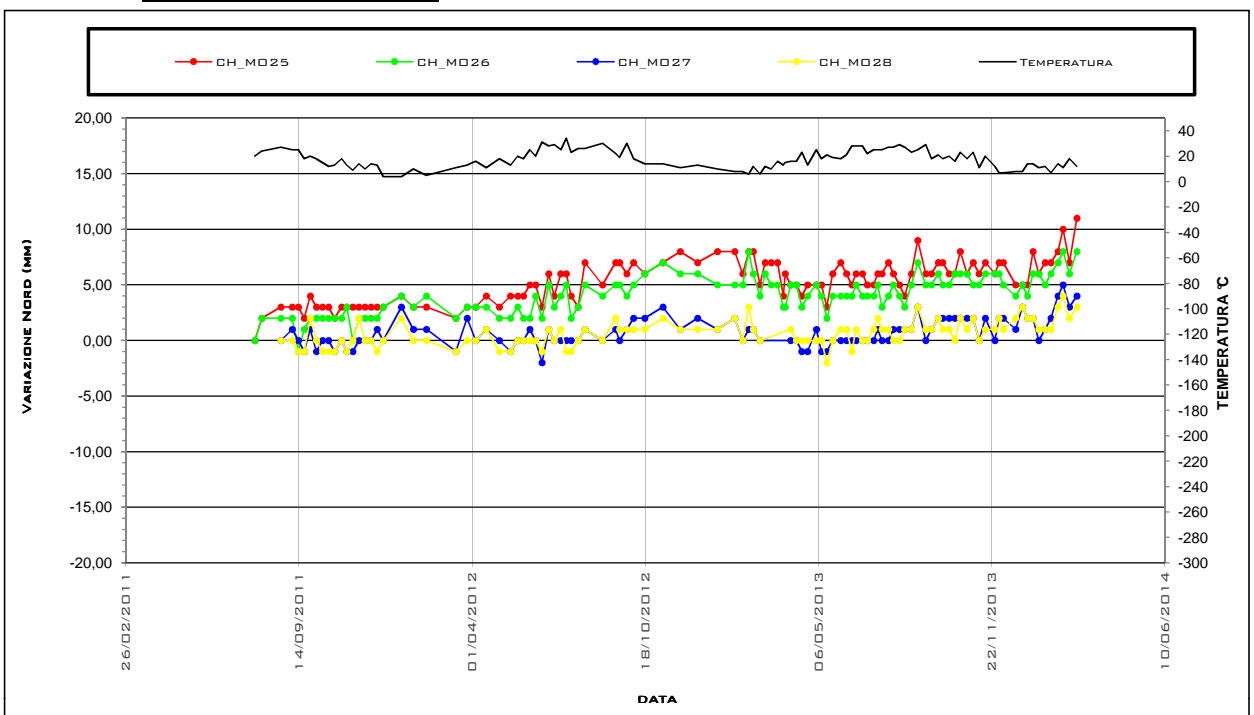
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Il Ordine di Tiranti \ 25-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 25/07/2011  
**Data lettura di zero** 25/07/2011



**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**

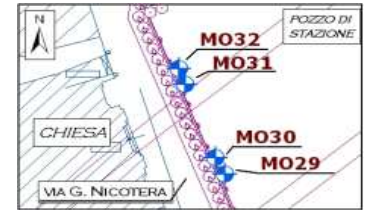
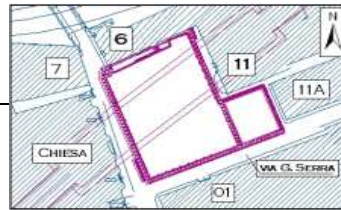
**Ultima Misura** 107 **in data** 28/02/2014

Letta. n°	DATA	CH_M029					CH_M030					CH_M031					CH_M032				
		Temp. Media[°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]	Temp. Media[°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]	Temp. Media[°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]	Temp. Media[°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]
17	13/12/2011 08.00	13,0	30,0	0,0	0,0	0,0	13,0	30,0	0,0	-1,0	-1,0	13,0	27,9	1,0	0,0	0,0	13,0	28,0	0,0	0,0	0,0
18	20/12/2011 08.00	4,0	30,0	0,0	-1,0	0,0	4,0	30,0	0,0	-1,0	2,0	4,0	27,9	1,0	2,0	4,0	28,0	0,0	-1,0	0,0	
19	10/01/2012 08.00	4,0	30,0	1,0	1,0	1,0	4,0	30,0	1,0	0,0	2,0	4,0	27,9	2,0	1,0	4,0	28,0	1,0	1,0	0,0	
20	24/01/2012 08.00	10,0	30,0	-2,0	1,0	0,0	10,0	30,0	-1,0	0,0	0,0	10,0	27,9	1,0	2,0	10,0	28,0	-1,0	1,0	1,0	
21	08/02/2012 08.00	5,0	30,0	-1,0	0,0	0,0	5,0	30,0	-1,0	0,0	1,0	5,0	27,9	1,0	1,0	5,0	28,0	0,0	1,0	1,0	
22	13/03/2012 08.00	11,0	30,0	0,0	0,0	0,0	11,0	30,0	0,0	0,0	0,0	11,0	27,9	1,0	3,0	11,0	28,0	1,0	1,0	0,0	
23	26/03/2012 08.00	13,0	30,0	-1,0	1,0	0,0	13,0	30,0	-1,0	0,0	1,0	13,0	27,9	0,0	1,0	13,0	28,0	-1,0	0,0	0,0	
24	05/04/2012 08.00	16,0	30,0	-1,0	0,0	0,0	16,0	30,0	-1,0	0,0	0,0	16,0	27,9	0,0	1,0	0,0	16,0	28,0	0,0	0,0	-1,0
25	17/04/2012 08.00	11,0	30,0	0,0	0,0	1,0	11,0	30,0	0,0	-1,0	1,0	11,0	27,9	2,0	1,0	1,0	11,0	28,0	0,0	1,0	0,0
26	02/05/2012 10.30	18,0	30,0	0,0	0,0	0,0	18,0	30,0	1,0	0,0	0,0	18,0	27,9	2,0	1,0	0,0	18,0	28,0	1,0	1,0	0,0
27	15/05/2012 08.30	13,0	30,0	0,0	-1,0	-1,0	13,0	30,0	0,0	-1,0	-1,0	13,0	27,9	2,0	1,0	-1,0	13,0	28,0	1,0	0,0	0,0
28	23/05/2012 17.30	20,0	30,0	1,0	0,0	1,0	20,0	30,0	0,0	0,0	0,0	20,0	27,9	2,0	1,0	0,0	20,0	28,0	1,0	1,0	0,0
29	30/05/2012 08.30	18,0	30,0	0,0	0,0	0,0	18,0	30,0	0,0	0,0	1,0	18,0	27,9	1,0	1,0	0,0	18,0	28,0	1,0	1,0	0,0
30	06/06/2012 16.30	25,0	30,0	0,0	0,0	1,0	25,0	30,0	0,0	0,0	1,0	25,0	27,9	2,0	1,0	0,0	25,0	28,0	1,0	1,0	0,0
31	13/06/2012 08.30	20,0	30,0	0,0	1,0	1,0	20,0	30,0	0,0	1,0	1,0	20,0	27,9	2,0	2,0	1,0	20,0	28,0	-1,0	1,0	1,0
32	20/06/2012 16.30	31,0	30,0	1,0	1,0	-1,0	31,0	30,0	1,0	1,0	0,0	31,0	27,9	2,0	1,0	-1,0	31,0	28,0	0,0	1,0	-1,0
33	28/06/2012 08.30	28,0	30,0	0,0	1,0	1,0	28,0	30,0	1,0	1,0	2,0	28,0	27,9	3,0	2,0	1,0	28,0	28,0	1,0	1,0	1,0
34	04/07/2012 19.30	29,0	30,0	0,0	0,0	0,0	29,0	30,0	0,0	0,0	1,0	29,0	27,9	2,0	2,0	1,0	29,0	28,0	1,0	1,0	0,0
35	12/07/2012 08.30	25,0	30,0	0,0	2,0	2,0	25,0	30,0	1,0	1,0	1,0	25,0	27,9	3,0	1,0	0,0	25,0	28,0	1,0	1,0	-1,0
36	18/07/2012 16.30	34,0	30,0	-1,0	2,0	1,0	34,0	30,0	-1,0	1,0	1,0	34,0	27,9	2,0	1,0	0,0	34,0	28,0	0,0	2,0	-2,0
37	24/07/2012 09.00	23,0	30,0	-1,0	2,0	1,0	23,0	30,0	-1,0	1,0	1,0	23,0	27,9	1,0	-1,0	-1,0	23,0	28,0	0,0	1,0	0,0
38	01/08/2012 09.00	26,0	30,0	-2,0	2,0	0,0	26,0	30,0	-2,0	2,0	2,0	26,0	27,9	1,0	0,0	0,0	26,0	28,0	-1,0	2,0	-1,0
39	09/08/2012 08.30	26,0	30,0	-2,0	2,0	0,0	26,0	30,0	-1,0	0,0	1,0	26,0	27,9	2,0	0,0	0,0	26,0	28,0	0,0	0,0	-1,0
40	29/08/2012 16.00	30,0	30,0	-2,0	2,0	0,0	30,0	30,0	-1,0	1,0	-1,0	30,0	27,9	1,0	2,0	-1,0	30,0	28,0	0,0	0,0	-1,0
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 08.00	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,			

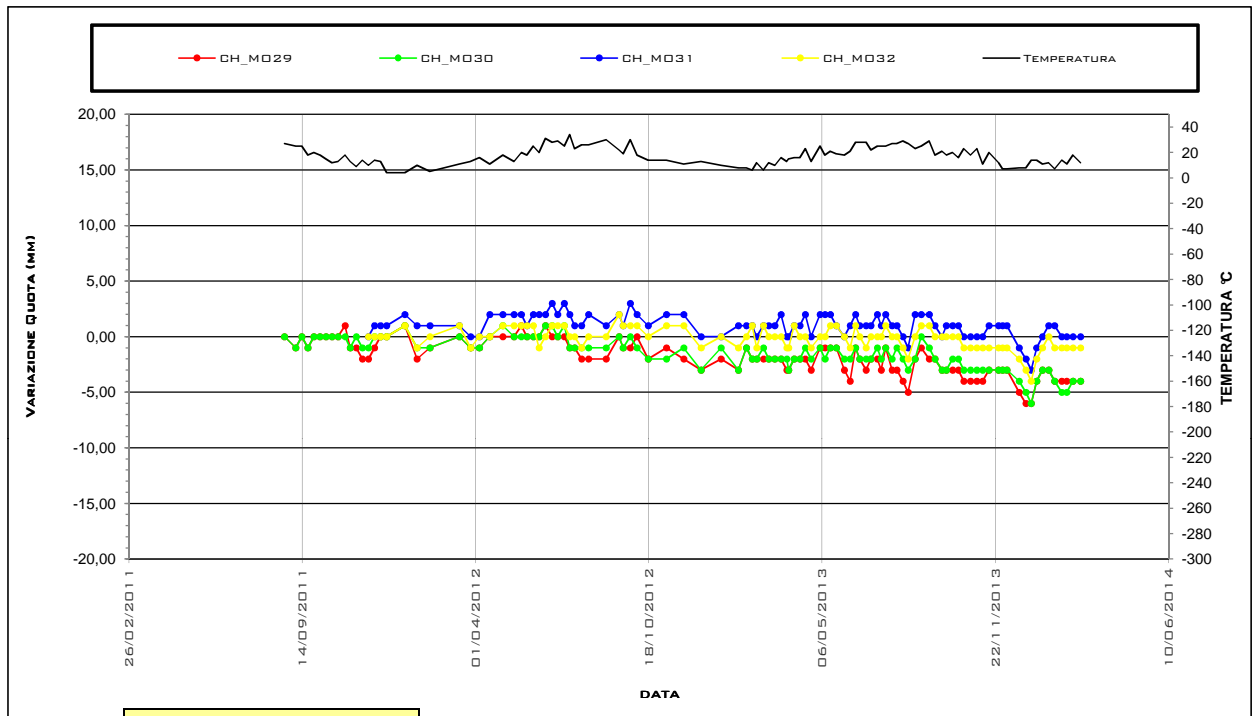


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Il Ordine di Tiranti \ 29-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 24/08/2011  
**Data lettura di zero** 24/08/2011

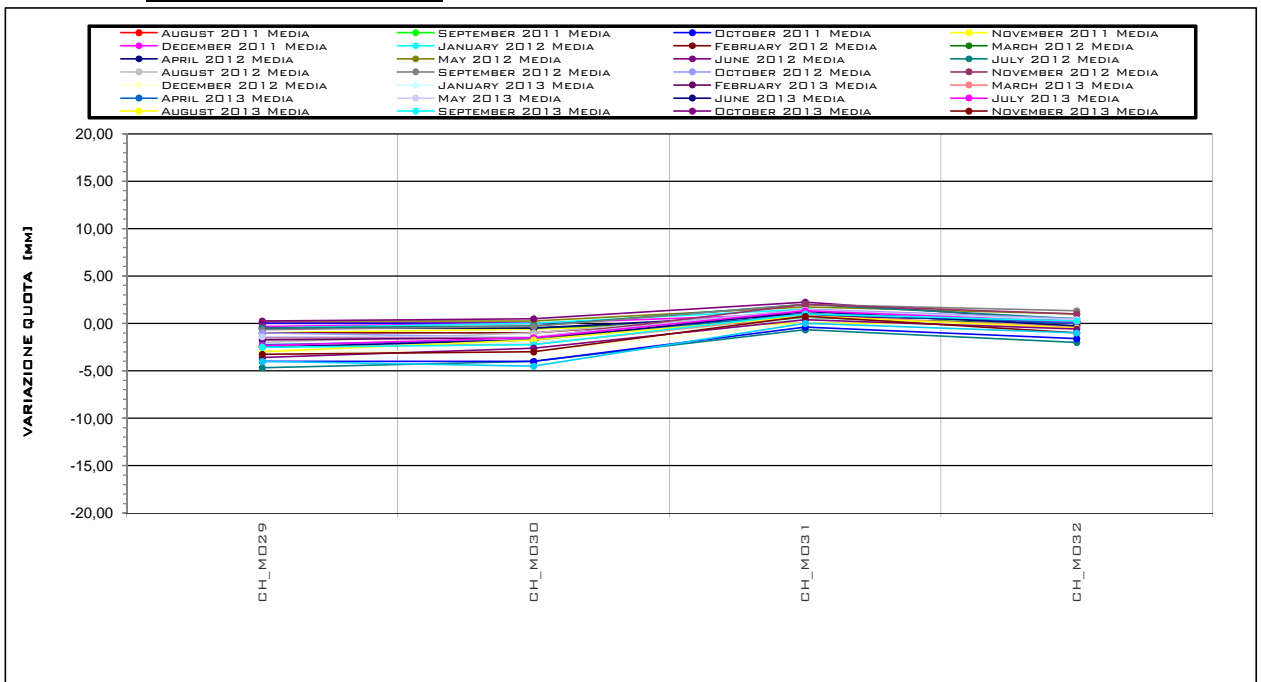
**UBICAZIONE**  
STAZIONE CHIAIA \ \ Il Ordine di Tiranti \ 29-32



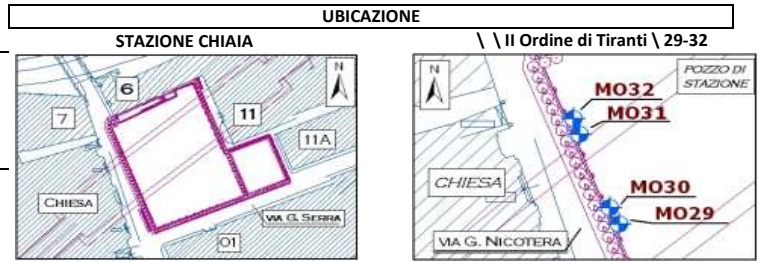
**GRAFICO QUOTA**



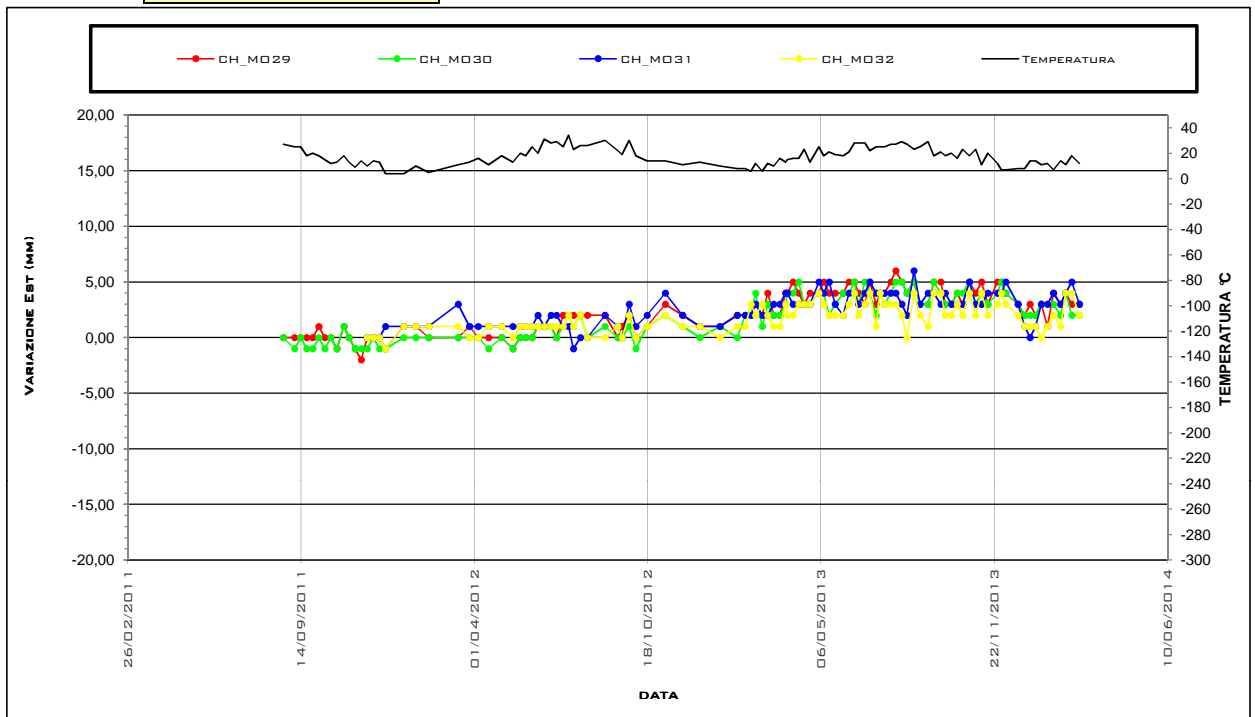
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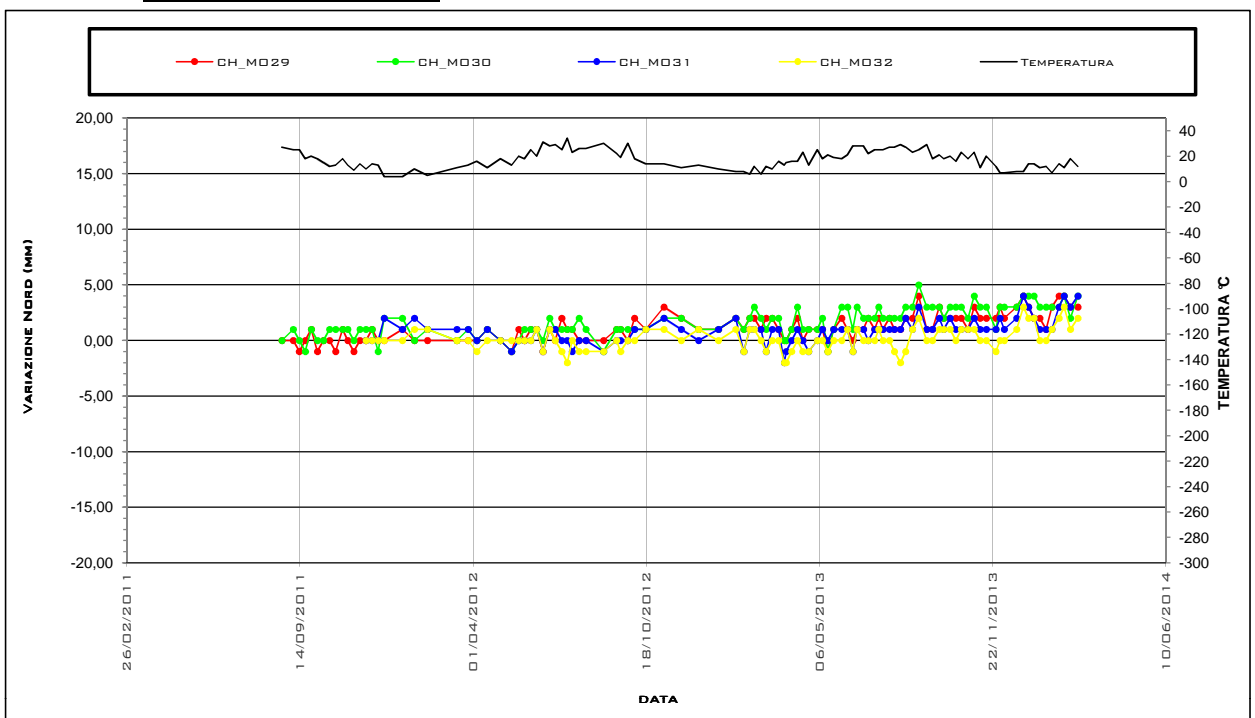
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Il Ordine di Tiranti \ 29-  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 24/08/2011  
**Data lettura di zero** 24/08/2011



**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 73

in data

28/02/2014

Lett. n°	DATA	CH_M033					CH_M034					CH_M035					CH_M037A						
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1	12/07/2012 08.30	25,0	14,4	0,0	0,0	0,0																	
2	18/07/2012 16.30	34,0	14,4	-1,0	-1,0	-1,0	34,0	11,6	0,0	0,0	0,0												
3	24/07/2012 09.00	23,0	14,4	-1,0	-1,0	-2,0	23,0	11,6	-2,0	1,0	-1,0												
4	01/08/2012 09.00	26,0	14,4	-2,0	1,0	-3,0	26,0	11,6	-3,0	1,0	-2,0												
5	09/08/2012 08.30	26,0	14,4	-2,0	-1,0	0,0	26,0	11,6	-1,0	0,0	1,0												
6	29/08/2012 16.00	30,0	14,4	-2,0	-1,0	-1,0	30,0	11,6	-3,0	0,0	0,0												
7	13/09/2012 15.00	22,0	14,4	-2,0	-1,0	-2,0	22,0	11,6	0,0	0,0	3,0	22,0	11,8	0,0	0,0	0,0							
8	18/09/2012 08.00	19,0	14,4	0,0	0,0	0,0	19,0	11,6	0,0	-1,0	2,0	19,0	11,8	0,0	0,0	0,0							
9	26/09/2012 15.00	30,0	14,4	-1,0	-1,0	0,0	30,0	11,6	0,0	-1,0	2,0	30,0	11,8	-1,0	0,0	0,0							
10	04/10/2012 09.00	18,0	14,4	-2,0	-3,0	-1,0	18,0	11,6	1,0	-1,0	3,0	18,0	11,8	0,0	-2,0	-1,0							
11	17/10/2012 08.30	14,0	14,4	-1,0	-1,0	-1,0	14,0	11,6	-1,0	-1,0	2,0	14,0	11,8	0,0	0,0	0,0							
12	07/11/2012 08.30	14,0	14,4	0,0	-1,0	0,0	14,0	11,6	-1,0	1,0	3,0	14,0	11,8	-1,0	1,0	0,0							
13	27/11/2012 08.30	11,0	14,4	0,0	-2,0	0,0	11,0	11,6	0,0	0,0	3,0	11,0	11,8	-1,0	-3,0	-2,0							
14	17/12/2012 08.30	13,0	14,4	-2,0	-1,0	0,0	13,0	11,6	-3,0	-1,0	3,0	13,0	11,8	-1,0	0,0	0,0							
15	09/01/2013 08.30	10,0	14,4	-1,0	-2,0	-1,0	10,0	11,6	-1,0	-2,0	3,0	10,0	11,8	-1,0	-3,0	-1,0							
16	29/01/2013 08.30	8,0	14,4	-1,0	-1,0	-1,0	8,0	11,6	-1,0	0,0	1,0	8,0	11,8	0,0	0,0	0,0							
17	07/02/2013 15.00	8,0	14,4	0,0	-1,0	-2,0	8,0	11,6	0,0	-1,0	-1,0	8,0	11,8	1,0	-1,0	1,0							
18	14/02/2013 08.30	6,0	14,4	-1,0	0,0	-1,0	6,0	11,6	0,0	-1,0	0,0	6,0	11,8	-1,0	-1,0	0,0							
19	19/02/2013 15.30	12,0	14,4	-2,0	-1,0	-1,0	12,0	11,6	-1,0	-1,0	1,0	12,0	11,8	0,0	1,0	0,0							
20	27/02/2013 08.30	6,0	14,4	-1,0	-4,0	-4,0	6,0	11,6	0,0	-2,0	0,0	6,0	11,8	-1,0	-1,0	0,0							
21	05/03/2013 10.30	12,0	14,4	-1,0	-2,0	-1,0	12,0	11,6	1,0	-2,0	2,0	12,0	11,8	-1,0	0,0	0,0							
22	12/03/2013 08.30	10,0	14,4	0,0	-1,0	-2,0	10,0	11,6	1,0	-1,0	2,0	10,0	11,8	2,0	0,0	1,0							
23	19/03/2013 16.00	16,0	14,4	0,0	-3,0	-3,0	16,0	11,6	1,0	-2,0	1,0	16,0	11,8	0,0	3,0	1,0							
24	26/03/2013 08.30	13,0	14,4	-1,0	0,0	-4,0	13,0	11,6	0,0	0,0	-1,0	13,0	11,8	0,0	0,0	0,0							
25	28/03/2013 11.00	15,0	14,4	-2,0	-1,0	-4,0	15,0	11,6	-1,0	0,0	-1,0	15,0	11,8	1,0	1,0	1,0							
26	03/04/2013 17.30	16,0	14,4	1,0	1,0	-3,0	16,0	11,6	0,0	0,0	-1,0	16,0	11,8	-1,0	1,0	2,0							
27	10/04/2013 10.30	16,0	14,4	0,0	0,0	-2,0	16,0	11,6	0,0	0,0	1,0	16,0	11,8	0,0	0,0	1,0							
28	16/04/2013 15.00	23,0	14,4	0,0	-2,0	-3,0	23,0	11,6	1,0	-2,0	-1,0	23,0	11,8	0,0	3,0	0,0							
29	23/04/2013 08.30	13,0	14,4	-1,0	0,0	-2,0	13,0	11,6	0,0	0,0	-1,0	13,0	11,8	0,0	2,0	2,0							
30	03/05/2013 14.30	25,0	14,4	1,0	1,0	-3,0	25,0	11,6	1,0	1,0	1,0	25,0	11,8	0,0	4,0	3,0							
31	09/05/2013 08.30	18,0	14,4	1,0	1,0	-2,0	18,0	11,6	1,0	0,0	1,0	18,0	11,8	-1,0	2,0	2,0							
32	15/05/2013 14.30	21,0	14,4	2,0	-2,0	-3,0	21,0	11,6	1,0	-1,0	-2,0	21,0	11,8	-1,0	4,0	1,0							
33	22/05/2013 08.30	19,0	14,4	1,0	-1,0	-2,0	19,0	11,6	0,0	-1,0	0,0	19,0	11,8	-1,0	3,0	1,0							
34	31/05/2013 15.30	18,0	14,4	-1,0	1,0	0,0	18,0	11,6	0,0	1,0	1,0	18,0	11,8	1,0	1,0	0,0							
35	07/06/2013 08.30	21,0	14,4	0,0	-2,0	-2,0	21,0	11,6	0,0	-1,0	1,0	21,0	11,8	-1,0	2,0	2,0							
36	13/06/2013 14.30	28,0	14,4	1,0	0,0	-3,0	28,0	11,6	2,0	2,0	0,0	28,0	11,8	1,0	3,0	1,0							
37	18/06/2013 09.00	28,0	14,4	1,0	-1,0	-1,0	28,0	11,6	1,0	-1,0	1,0	28,0	11,8	0,0	1,0	2,0							
38	25/06/2013 18.00	28,0	14,4	1,0	-1,0	-1,0	28,0	11,6	0,0	-2,0	0,0												
39	01/07/2013 07.30	22,0	14,4	0,0	-2,0	-1,0	22,0	11,6	0,0	-2,0	1,0	22,0	11,8	1,0	4,0	3,0	22,0	10,6	0,0	0,0	0,0		
40	08/07/2013 17.30	25,0	14,4	0,0	-5,0	-2,0	25,0	11,6	1,0	-5,0	-1,0	25,0	11,8	2,0	4,0	4,0	25,0	10,6	-1,0	-2,0	0,0		
41	13/07/2013 07.30	25,0	14,4	-1,0	-3,0	-1,0	25,0	11,6	0,0	-4,0	2,0	25,0	11,8	0,0	4,0	3,0	25,0	10,6	-1,0	0,0	2,0		
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	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	1,0	2,0		
44	31/07/2013 08.00	27,0	14,4	0,0	0,0	-1,0	27,0	11,6	1,0	-1,0	0,0	27,0	11,8	-1,0	4,0	5,0	27,0	10,6	-2,0	-1,0	2,0		
45	07/08/2013 09.00	29,0	14,4	-1,0	0,0	-2,0	29,0	11,6	0,0	-1,0	-1,0	29,0	11,8	-1,0	4,0	3,0	29,0	10,6	-3,0	1,0	0,0		
46	13/08/2013 09.00	27,0	14,4	-2,0	-1,0	-3,0	27,0	11,6	-1,0	-2,0	-2,0	27,0	11,8	0,0	5,0	2,0	27,0	10,6	-3,0	2,0	-1,0		
47	21/08/2013 07.30	23,0	14,4	1,0	-2,0	0,0	23,0	11,6	1,0	-1,0	2,0	23,0	11,8	1,0	7,0	3,0	23,0	10,6	-1,0	2,0	2,0		
48	28/08/2013 10.30	25,0	14,4	1,0	-3,0	-1,0	25,0	11,6	2,0	-4,0	4,0	25,0	11,8	1,0	6,0	4,0	25,0	10,6	-1,0	3,0	3,0		
49	06/09/2013 17.30	29,0	14,4	1,0	-3,0	-1,0	29,0	11,6	0,0	-3,0	1,0	29,0	11,8	2,0	6,0	3,0							
50	13/09/2013 07.30	18,0	14,4	0,0	-2,0	-2,0	18,0	11,6	0,0	-2,0	0,0	18,0	11,8	1,0	6,0	4,0	18,0	10,6	1,0	-1,0	2,0		
51	21/09/2013 09.30	21,0	14,4	-1,0	-2,0	0,0	21,0	11,6	1,0	-2,0	2,0	21,0	11,8	2,0	7,0	3,0	21,0	10,6	-1,0	2,0	0,0		
52	26/09/2013 09.30	18,0	14,4	0,0	-3,0	0,0	18,0	11,6	1,0	-3,0	1,0	18,0	11,8	2,0	7,0	4,0	18,0	10,6	2,0	-1,0	2,0		
53	03/10/2013 16.30	20,0	14,4	0,0	-3,0	0,0	20,0	11,6	1,0	-2,0	2,0	20,0	11,8	2,0	6,0	3,0	20,0	10,6	2,0	-2,0	2,0		
54	10/10/2013 08.30	16,0	14,4	0,0	-2,0	-2,0	16,0	11,6	1,0	-2,0	2,0	16,0	11,8	3,0	7,0	5,0	16,0	10,6	3,0	0,0	3,0		
55	16/10/2013 14.30	23,0	14,4	-1,0	-3,0	0,0	23,0	11,6	1,0	-2,0	3,0	23,0	11,8	2,0	5,0	4,0	23,0	10,6	1,0	-1,0	2,0		
56	24/10/2013 08.30	18,0	14,4	-1,0	-2,0	-1,0	18,0	11,6	1,0	0,0	1,0	18,0	11,8	2,0	5,0	6,0	18,0	10,6	0,0	0,0	3,0		
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	11,8	2,0	6,0	5,0	23,0	10,6	-1,0	3,0	1,0		
58	07/11/2013 08.30	11,0	14,4	-1,0	-3,0	-2,0	11,0	11,6	0,0	-3,0	0,0	11,0	11,8	2,0	5,0	5,0	11,0	10,6	0,0	2,0	2,0		
59	14/11/2013 14.30	20,0	14,4	-1,0	-3,0	-2,0	20,0	11,6	1,0	-3,0	2,0	20,0	11,8	2,0	6,0	5,0	20,0	10,6	0,0	2,0	2,0		

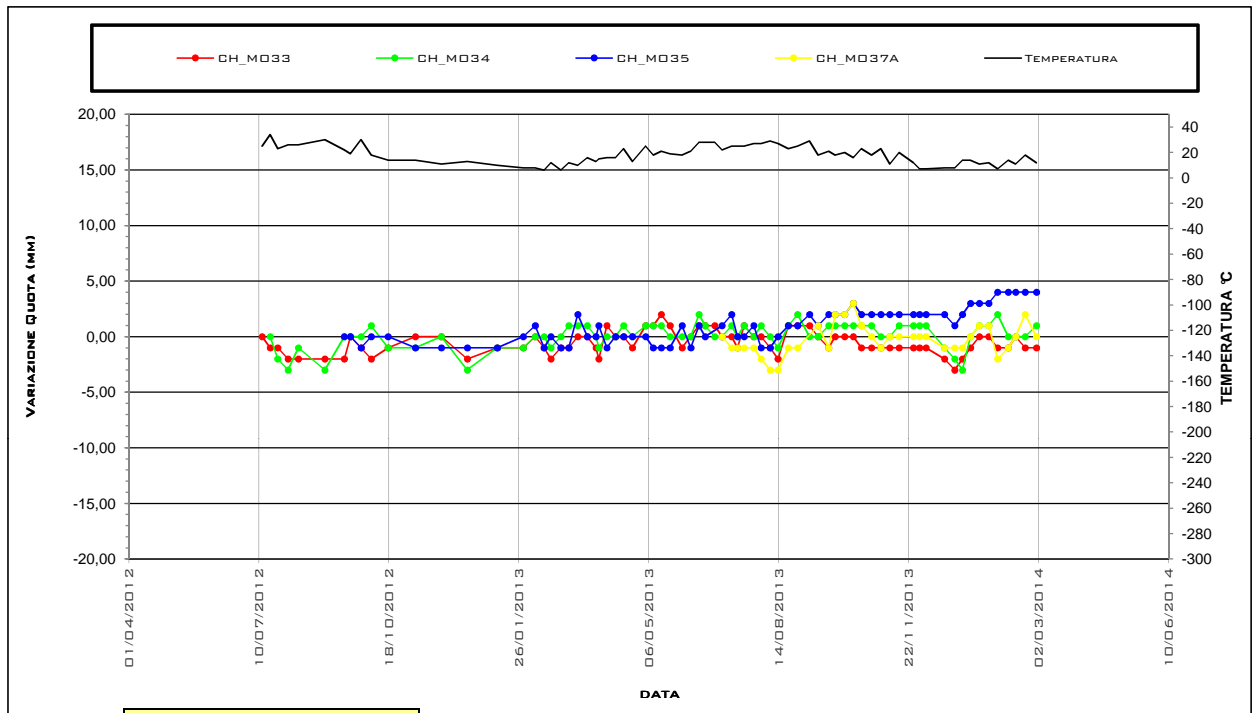


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ III Ordine - Tufo \ 33-37  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 12/07/2012  
**Data lettura di zero** 12/07/2012

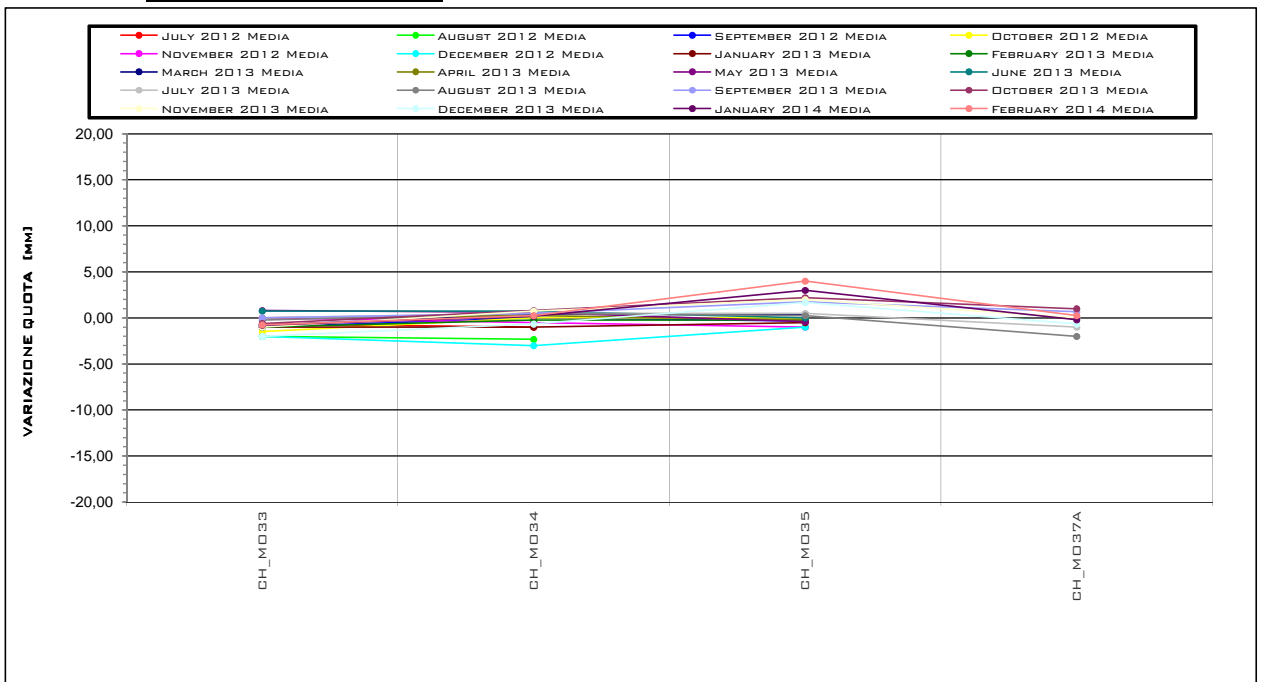
**UBICAZIONE**  
STAZIONE CHIAIA \ \ III Ordine - Tufo \ 33-37



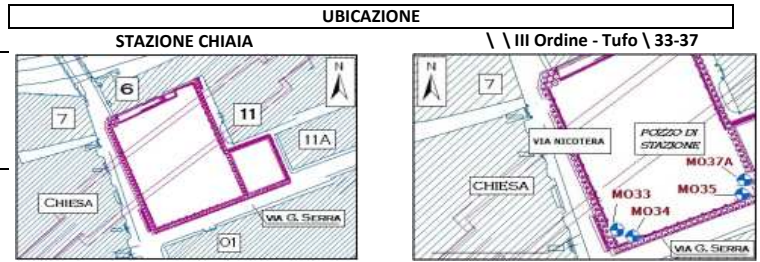
**GRAFICO QUOTA**



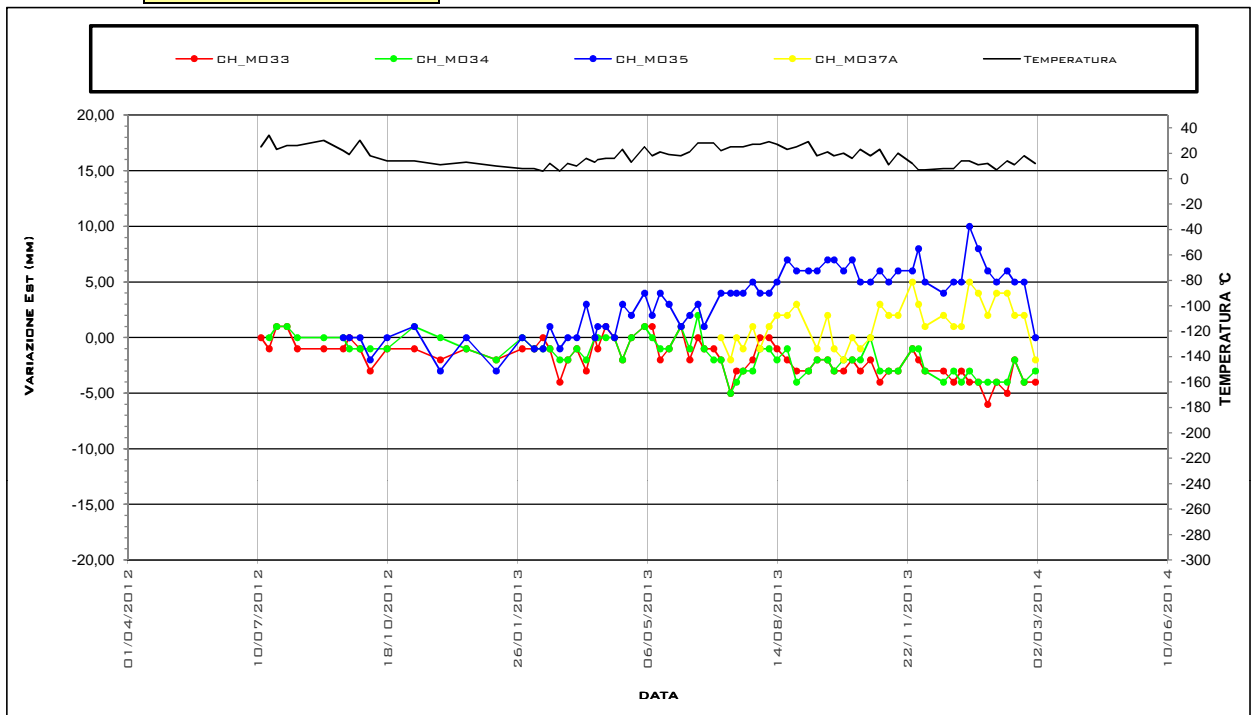
**GRAFICO ISOCRONE**



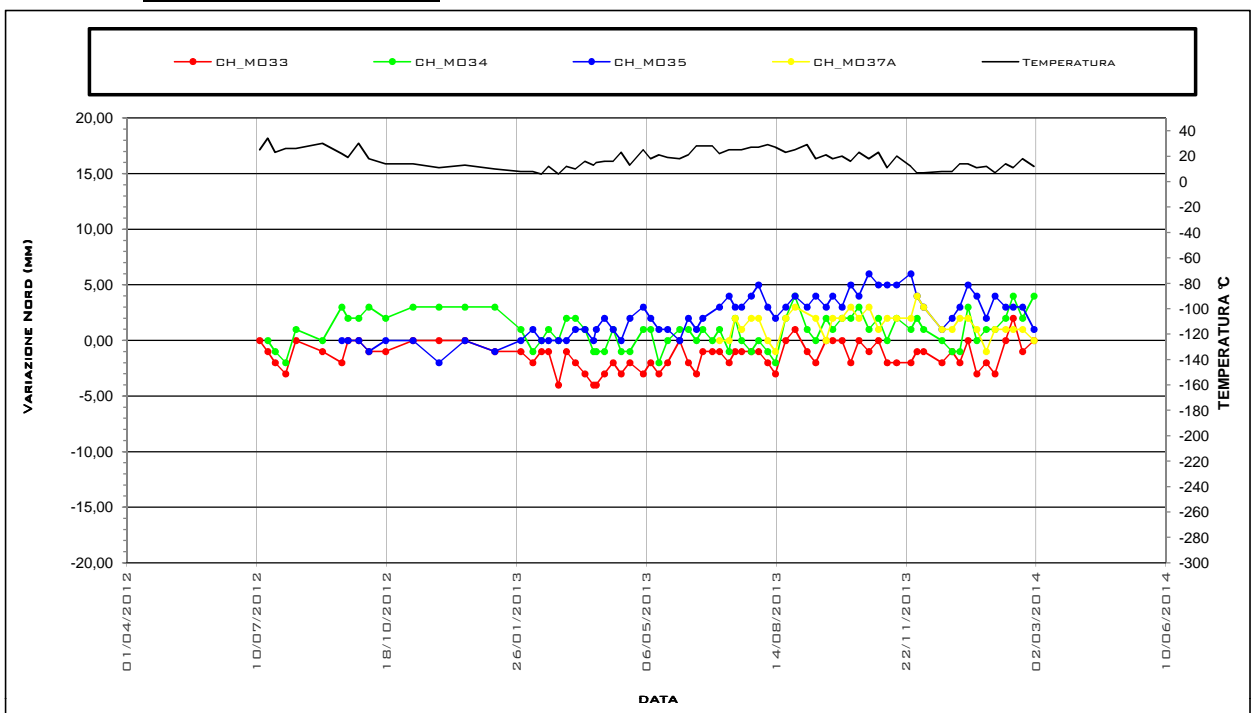
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ III Ordine - Tufo \ 33-37  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 12/07/2012  
**Data lettura di zero** 12/07/2012



**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 Misura** 62 **in data** 28/02/2014

Letto. n°	DATA	CH_M036					CH_M036A				
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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

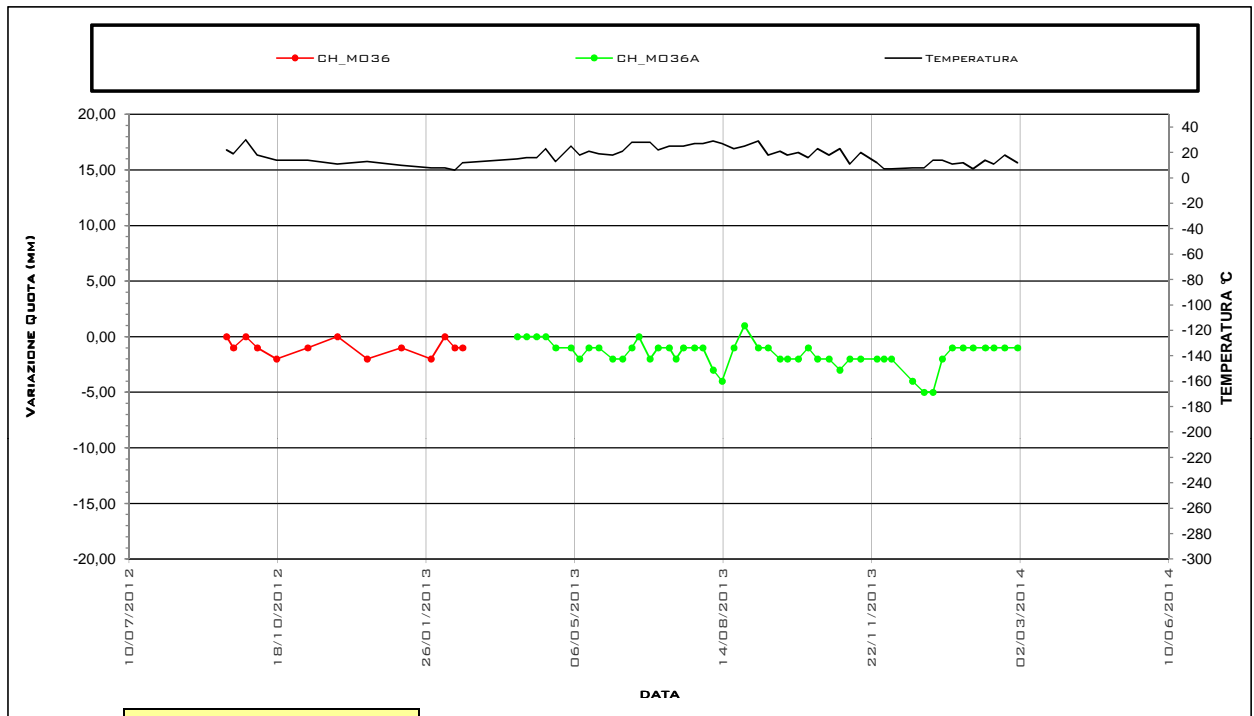


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ IV Ordine - Tufo \ 36A  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 13/09/2012  
**Data lettura di zero** 13/09/2012

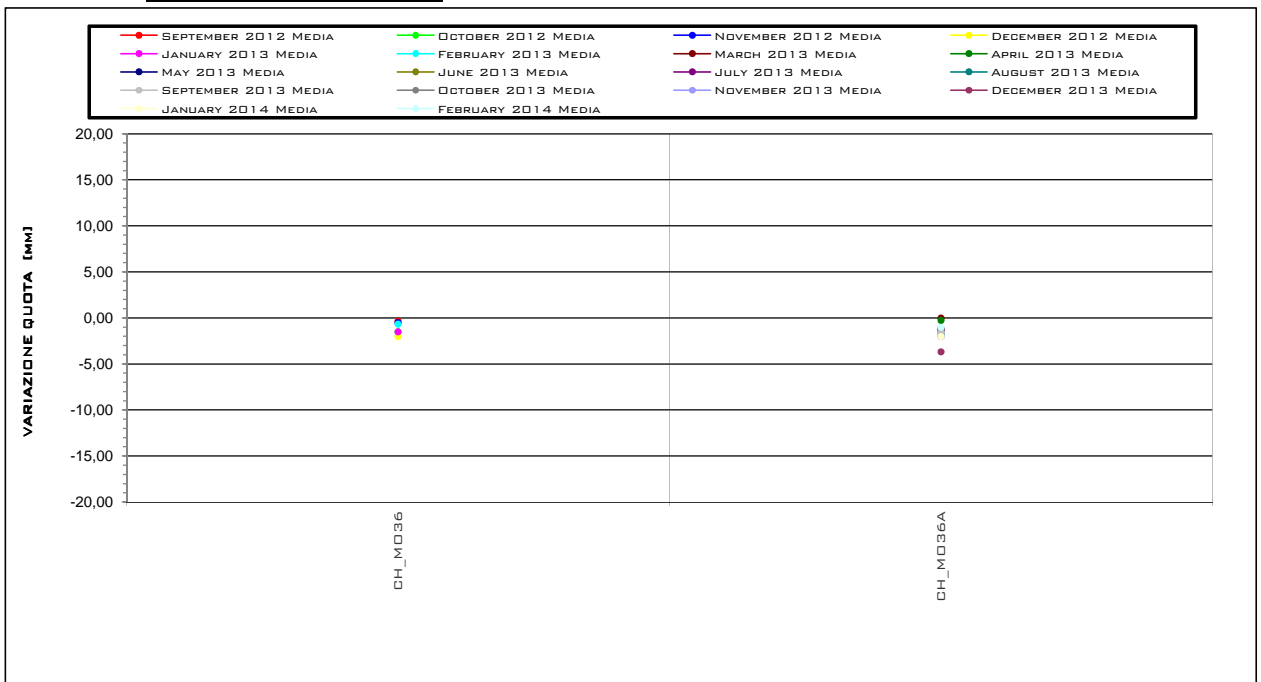
**UBICAZIONE**



**GRAFICO QUOTA**

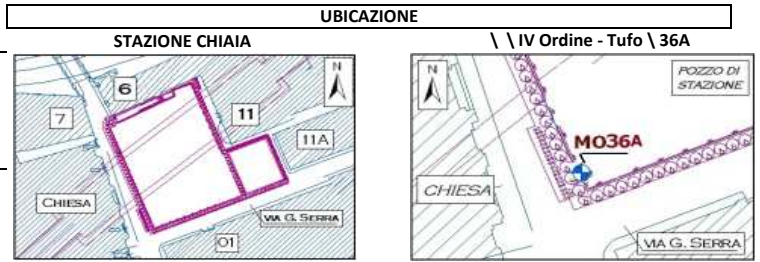


**GRAFICO ISOCRONE**

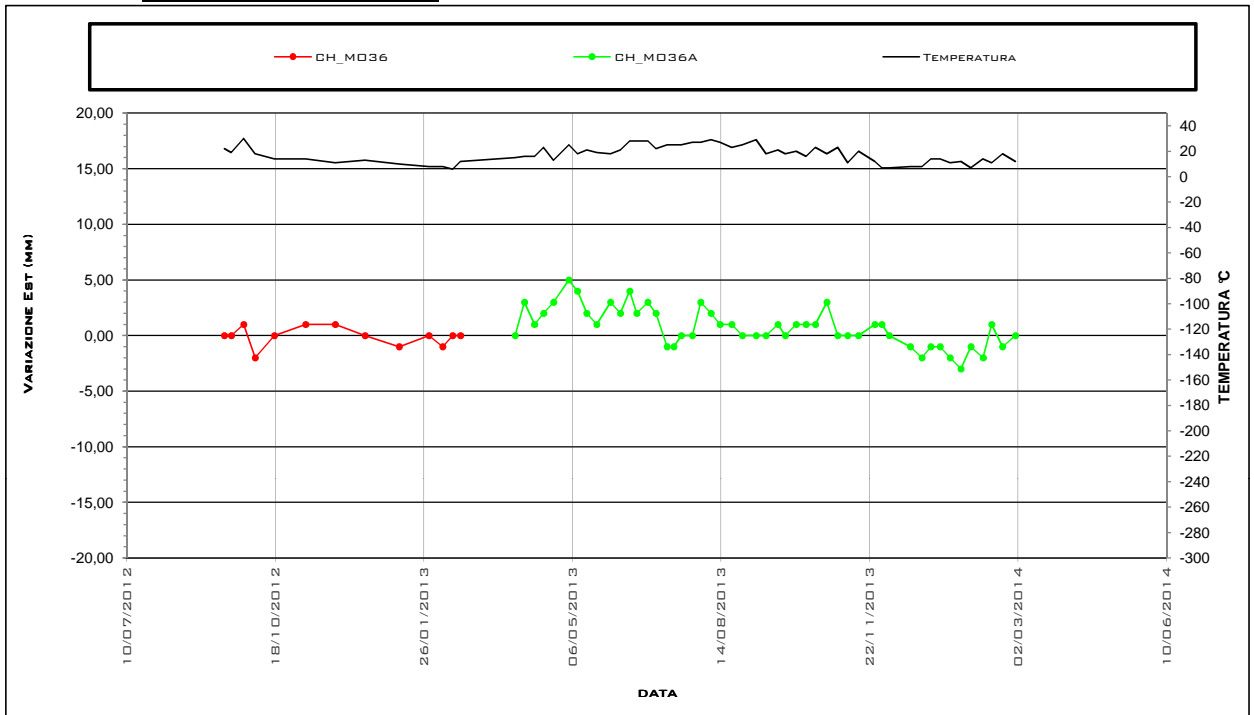




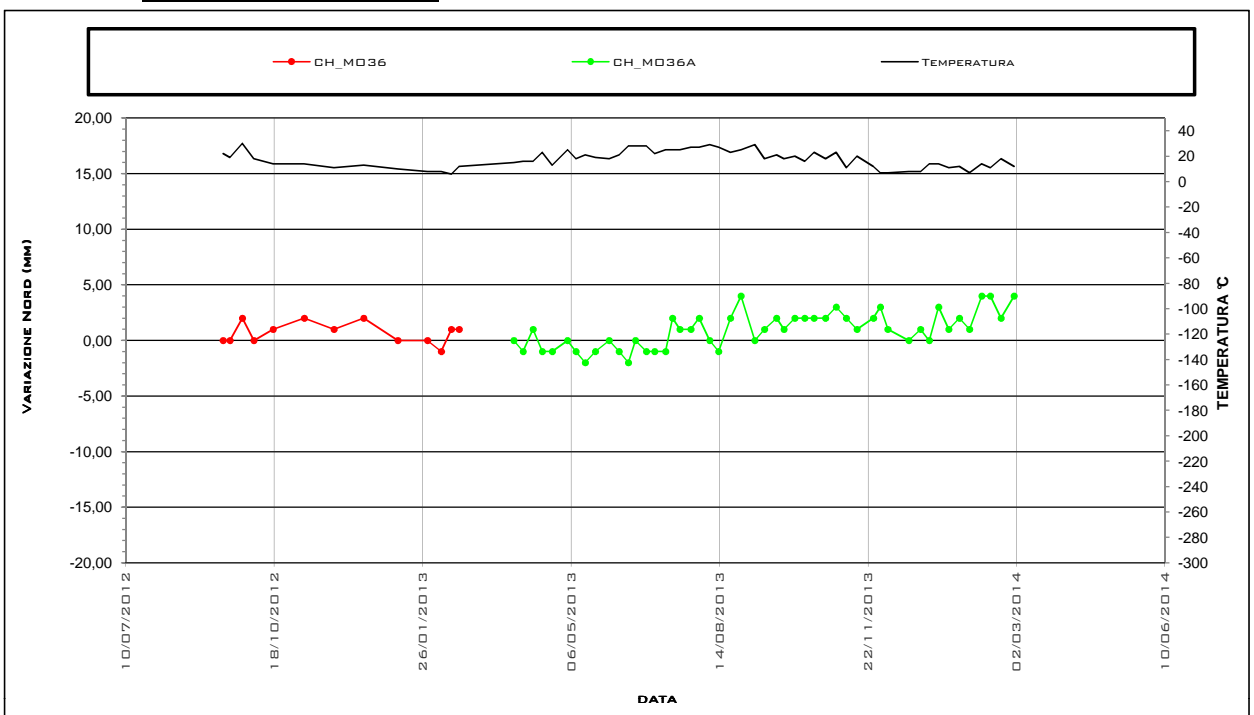
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ IV Ordine - Tufo \ 36A  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 13/09/2012  
**Data lettura di zero** 13/09/2012



**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**

58

**in  
data**

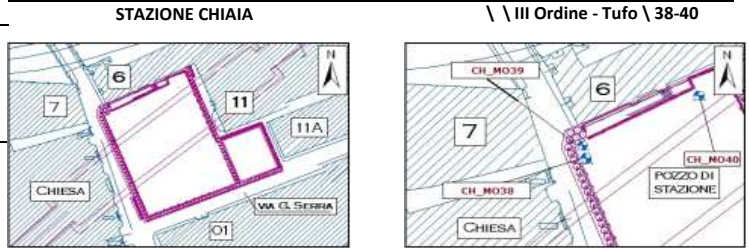
**28/02/2014**

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1	07/02/2013 15.01	8,0	14,7	0,0	0,0	0,0	8,0	14,6	0,0	0,0	0,0					
2	14/02/2013 08.30	6,0	14,7	1,0	0,0	3,0	6,0	14,6	0,0	0,0	3,0					
3	14/02/2013 08.31											6,0	14,8	0,0	0,0	0,0
4	19/02/2013 15.30	12,0	14,7	-2,0	0,0	2,0	12,0	14,6	0,0	1,0	4,0	12,0	14,8	2,0	-1,0	-1,0
5	27/02/2013 08.30	6,0	14,7	0,0	-1,0	2,0	6,0	14,6	1,0	0,0	1,0	6,0	14,8	1,0	0,0	-1,0
6	05/03/2013 10.30	12,0	14,7	0,0	-1,0	3,0	12,0	14,6	0,0	-1,0	3,0	12,0	14,8	1,0	0,0	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					

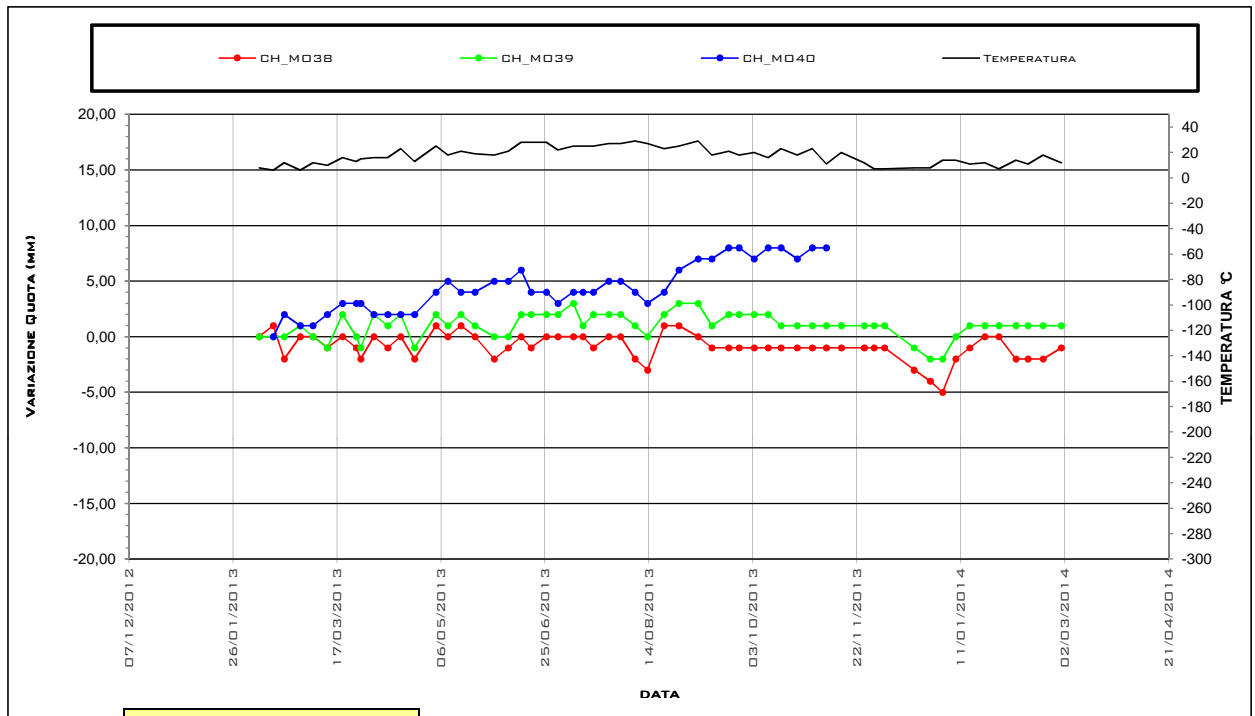


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ III Ordine - Tufo \ 38-40  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 07/02/2013  
**Data lettura di zero** 07/02/2013

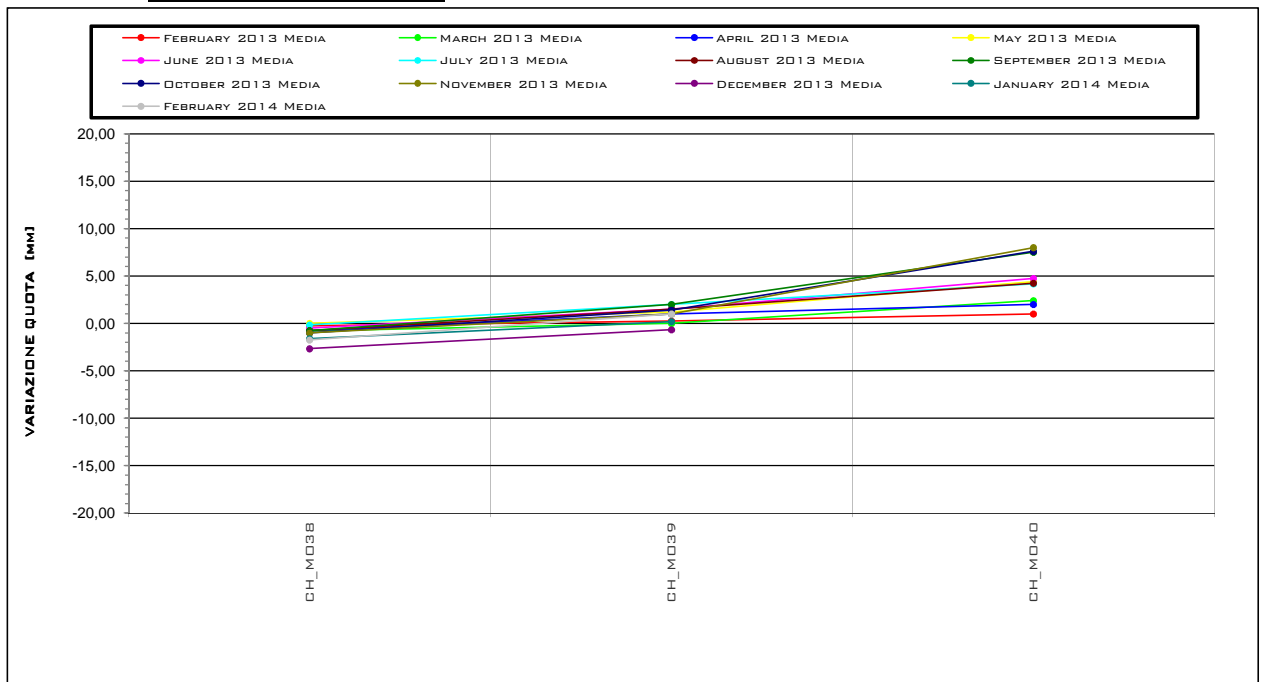
**UBICAZIONE**



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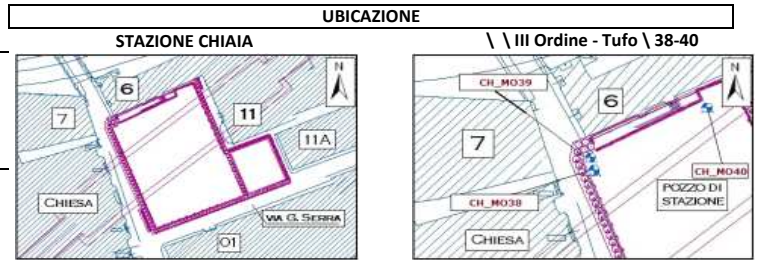


**GRAFICO ISOCRONE**

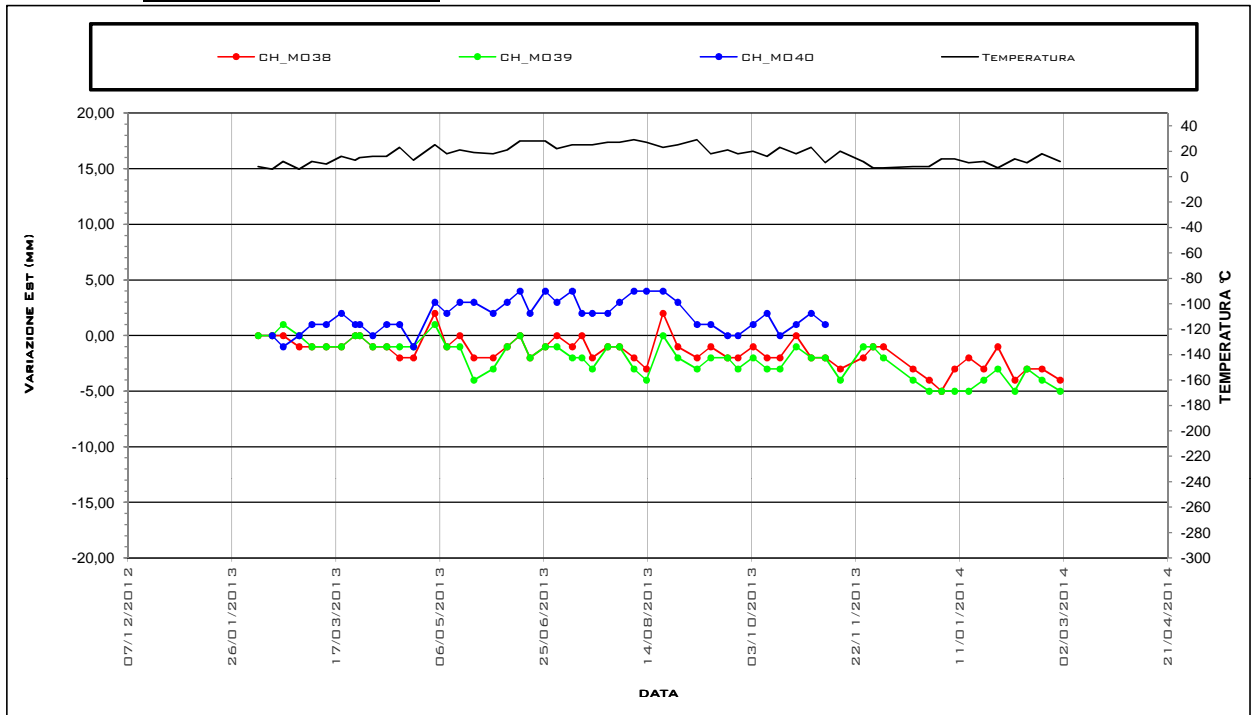




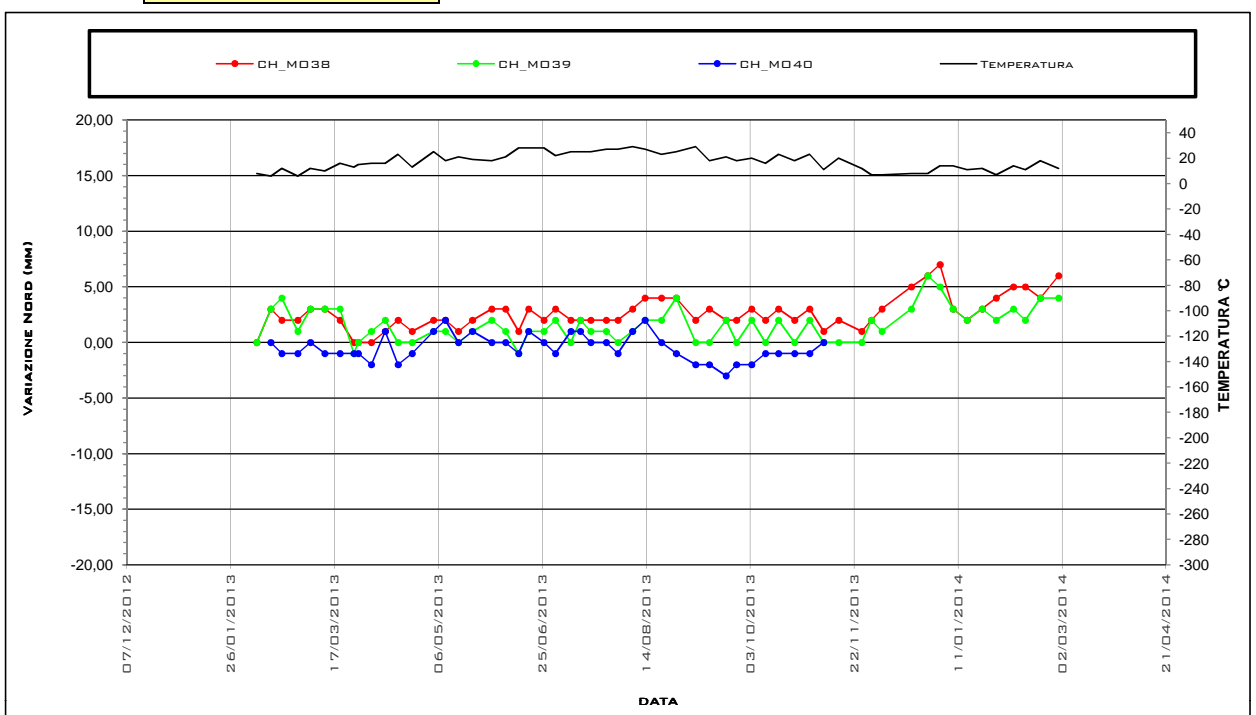
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ III Ordine - Tufo \ 38-40  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 07/02/2013  
**Data lettura di zero** 07/02/2013



**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 53 in data 28/02/2014

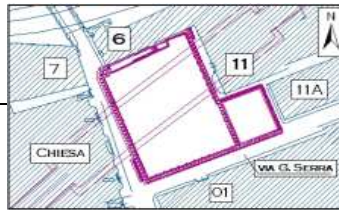
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1	05/03/2013 10.30	12.0	9,5	0,0	0,0	0,0	12,0	9,4	0,0	0,0	0,0	12,0	9,7	0,0	0,0	0,0	12,0	10,2	0,0	0,0	0,0
2	12/03/2013 08.30	10,0	9,5	1,0	1,0	3,0	10,0	9,4	-1,0	-1,0	2,0	10,0	9,7	1,0	1,0	-2,0	10,0	10,2	0,0	-1,0	-2,0
3	19/03/2013 16.00	16,0	9,5	0,0	0,0	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	-3,0
5	28/03/2013 11.00	15,0	9,5	-2,0	0,0	1,0	15,0	9,4	0,0	0,0	0,0	15,0	9,7	1,0	1,0	-2,0	15,0	10,2	0,0	0,0	-2,0
6	03/04/2013 17.30	16,0	9,5	-3,0	0,0	2,0	16,0	9,4	1,0	0,0	0,0	16,0	9,7	-1,0	1,0	-4,0	16,0	10,2	-2,0	-1,0	-3,0
7	10/04/2013 10.30	16,0	9,5	-1,0	-1,0	2,0	16,0	9,4	0,0	0,0	2,0	16,0	9,7	1,0	1,0	-2,0	16,0	10,2	1,0	0,0	-1,0
8	16/04/2013 15.00	23,0	9,5	0,0	0,0	1,0	23,0	9,4	2,0	0,0	0,0	23,0	9,7	1,0	1,0	-4,0	23,0	10,2	-2,0	-1,0	-3,0
9	23/04/2013 08.30	13,0	9,5	0,0	0,0	0,0	13,0	9,4	0,0	0,0	0,0	13,0	9,7	0,0	0,0	-2,0	13,0	10,2	-1,0	-1,0	-1,0
10	03/05/2013 14.30	25,0	9,5	0,0	1,0	1,0	25,0	9,4	0,0	1,0	0,0	25,0	9,7	0,0	5,0	-3,0	25,0	10,2	-2,0	1,0	-2,0
11	09/05/2013 08.30	18,0	9,5	-1,0	-1,0	2,0	18,0	9,4	1,0	-1,0	1,0	18,0	9,7	0,0	3,0	-2,0	18,0	10,2	-1,0	-2,0	-2,0
12	15/05/2013 14.30	21,0	9,5	-1,0	0,0	2,0	21,0	9,4	1,0	1,0	0,0	21,0	9,7	1,0	4,0	-4,0	21,0	10,2	-1,0	-2,0	-4,0
13	22/05/2013 08.30	19,0	9,5	0,0	-1,0	3,0	19,0	9,4	0,0	-1,0	0,0	19,0	9,7	1,0	4,0	-5,0	19,0	10,2	-1,0	0,0	-3,0
14	31/05/2013 15.30	18,0	9,5	-1,0	-1,0	3,0	18,0	9,4	-1,0	-2,0	1,0	18,0	9,7	1,0	4,0	-4,0	18,0	10,2	0,0	-1,0	-3,0
15	07/06/2013 08.30	21,0	9,5	-1,0	-1,0	2,0	21,0	9,4	-1,0	-1,0	2,0	21,0	9,7	1,0	4,0	-5,0	21,0	10,2	1,0	0,0	-4,0
16	13/06/2013 14.30	28,0	9,5	0,0	0,0	0,0	28,0	9,4	1,0	-1,0	0,0	28,0	9,7	2,0	5,0	-5,0	28,0	10,2	1,0	1,0	-4,0
17	18/06/2013 09.00	28,0	9,5	0,0	0,0	2,0	28,0	9,4	0,0	-2,0	1,0	28,0	9,7	1,0	3,0	-4,0	28,0	10,2	-1,0	0,0	-2,0
18	25/06/2013 18.00	28,0	9,5	0,0	0,0	2,0	28,0	9,4	0,0	0,0	1,0	28,0	9,7	1,0	3,0	-4,0	28,0	10,2	0,0	0,0	-4,0
19	01/07/2013 07.30	22,0	9,5	1,0	0,0	2,0	22,0	9,4	0,0	-1,0	1,0	22,0	9,7	1,0	4,0	-5,0	22,0	10,2	0,0	0,0	-3,0
20	08/07/2013 17.30	25,0	9,5	1,0	0,0	3,0	25,0	9,4	3,0	-1,0	0,0	25,0	9,7	2,0	5,0	-3,0	25,0	10,2	0,0	1,0	-1,0
21	13/07/2013 07.30	25,0	9,5	0,0	0,0	3,0	25,0	9,4	1,0	-2,0	0,0	25,0	9,7	2,0	3,0	-3,0	25,0	10,2	0,0	0,0	-3,0
22	18/07/2013 07.30	25,0	9,5	-1,0	-1,0	2,0	25,0	9,4	2,0	-2,0	0,0	25,0	9,7	1,0	3,0	-4,0	25,0	10,2	-1,0	-1,0	-2,0
23	25/07/2013 18.00	27,0	9,5	1,0	1,0	2,0	27,0	9,4	1,0	-1,0	1,0	27,0	9,7	2,0	4,0	-4,0	27,0	10,2	0,0	-1,0	-2,0
24	31/07/2013 09.00	27,0	9,5	1,0	-1,0	2,0	27,0	9,4	2,0	-2,0	0,0	27,0	9,7	2,0	3,0	-4,0	27,0	10,2	0,0	-1,0	-1,0
25	07/08/2013 09.00	29,0	9,5	0,0	-1,0	3,0	29,0	9,4	0,0	-4,0	1,0	29,0	9,7	1,0	4,0	-3,0	29,0	10,2	-1,0	-3,0	-1,0
26	13/08/2013 09.00	27,0	9,5	-1,0	-2,0	4,0	27,0	9,4	-1,0	-5,0	2,0	27,0	9,7	0,0	5,0	-2,0	27,0	10,2	-1,0	-2,0	-1,0
27	21/08/2013 07.30	23,0	9,5	1,0	1,0	3,0	23,0	9,4	2,0	0,0	1,0	23,0	9,7	2,0	5,0	-5,0	23,0	10,2	-1,0	1,0	-2,0
28	28/08/2013 10.30	25,0	9,5	2,0	-2,0	4,0	25,0	9,4	5,0	-1,0	2,0	25,0	9,7	3,0	4,0	-5,0	25,0	10,2	-1,0	1,0	-1,0
29	06/09/2013 17.30	29,0	9,5	1,0	-2,0	2,0	29,0	9,4	3,0	-1,0	0,0										
30	13/09/2013 07.30	18,0	9,5	0,0	0,0	2,0	18,0	9,4	3,0	0,0	0,0										
31	21/09/2013 09.30						21,0	9,4	3,0	-1,0	1,0										
32	26/09/2013 09.30	18,0	9,5	3,0	-1,0	4,0	18,0	9,4	3,0	-1,0	1,0										
33	03/10/2013 16.30	20,0	9,5	3,0	-1,0	5,0	20,0	9,4	3,0	-1,0	2,0										
34	10/10/2013 08.30	16,0	9,5	3,0	-3,0	3,0	16,0	9,4	3,0	-2,0	0,0										
35	16/10/2013 14.30	23,0	9,5	1,0	-3,0	4,0	23,0	9,4	2,0	-1,0	2,0										
36	24/10/2013 08.30	18,0	9,5	1,0	-1,0	4,0	18,0	9,4	2,0	1,0	0,0										
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										



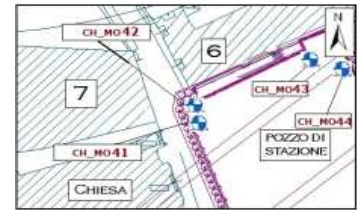
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ IV Ordine - Tufo \ 41-44  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 05/03/2013  
**Data lettura di zero** 05/03/2013

**UBICAZIONE**

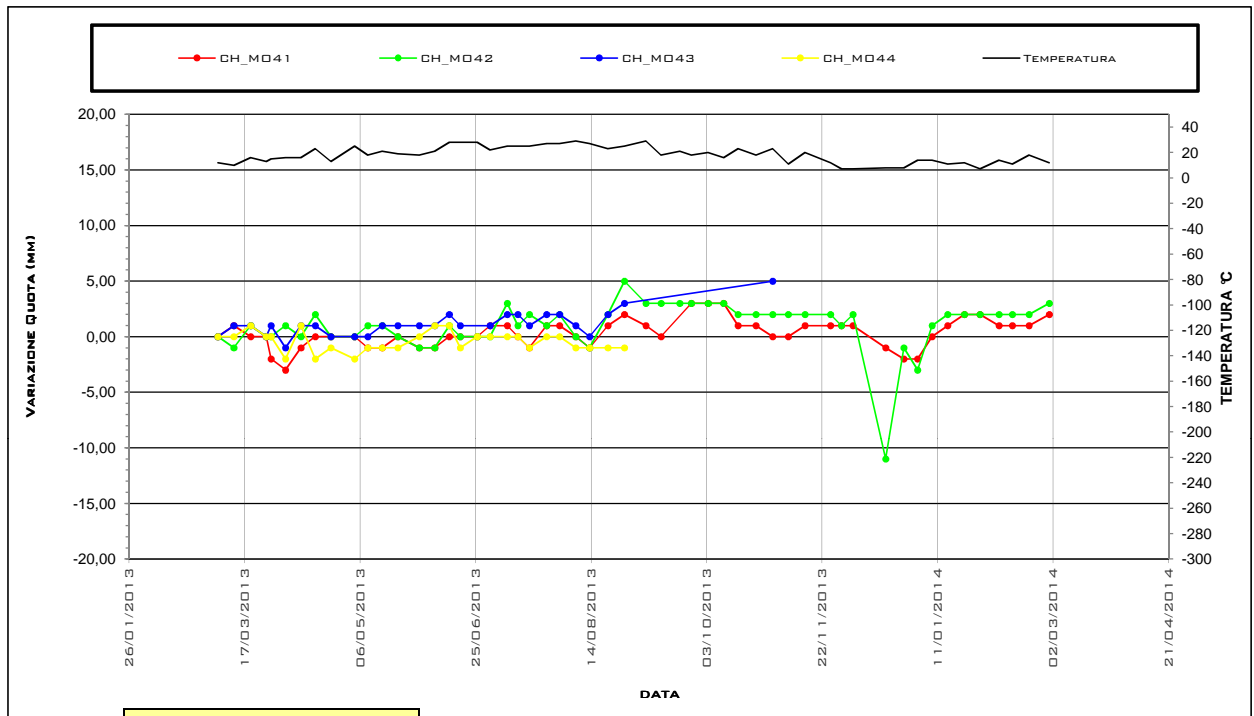
**STAZIONE CHIAIA**



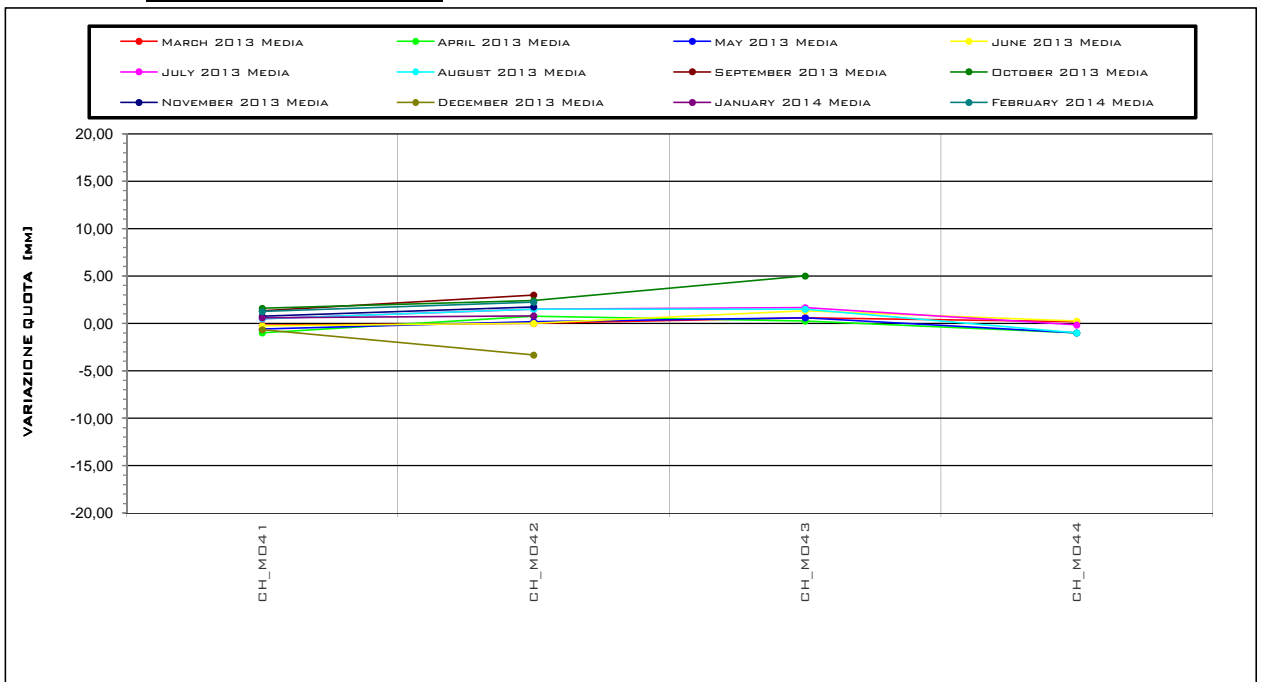
**\ \ IV Ordine - Tufo \ 41-44**



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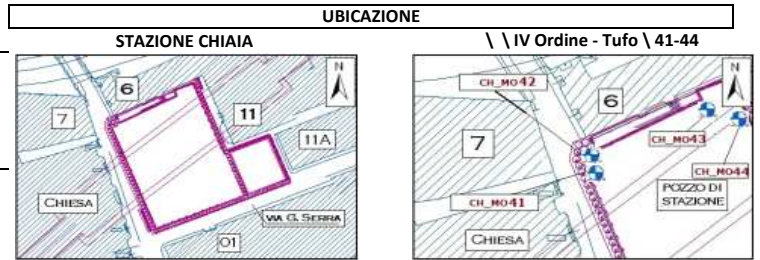


**GRAFICO ISOCRONE**

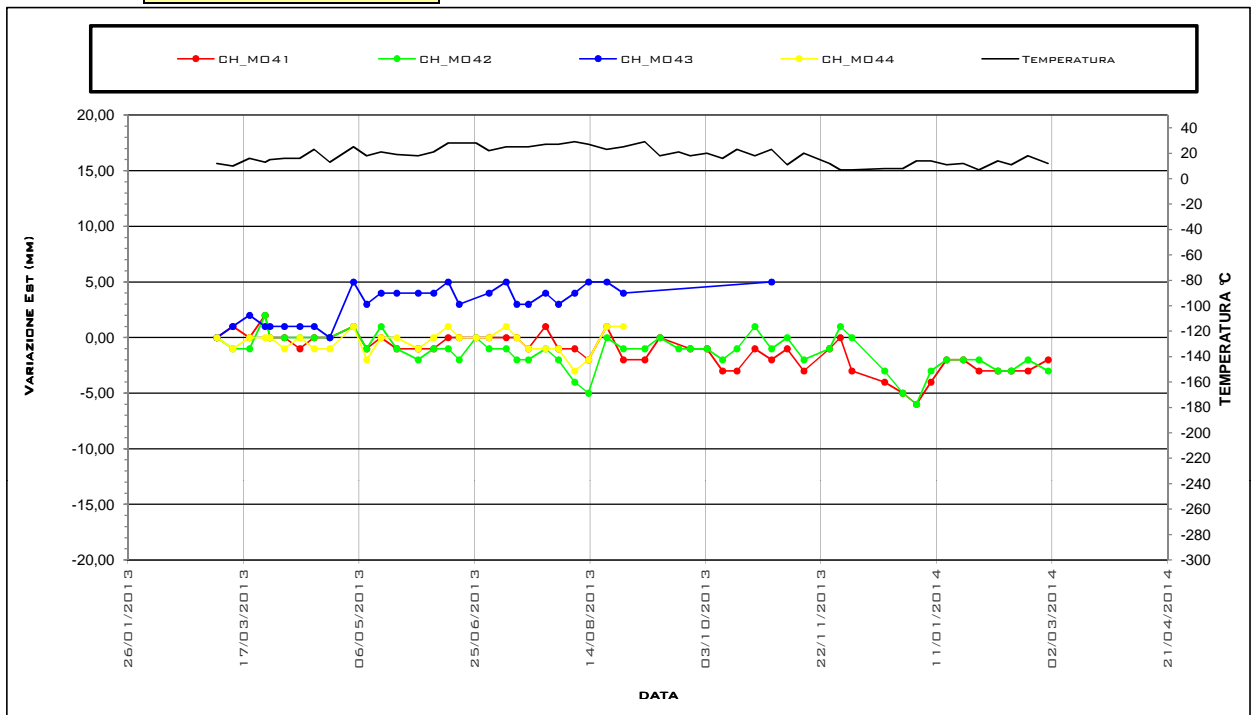




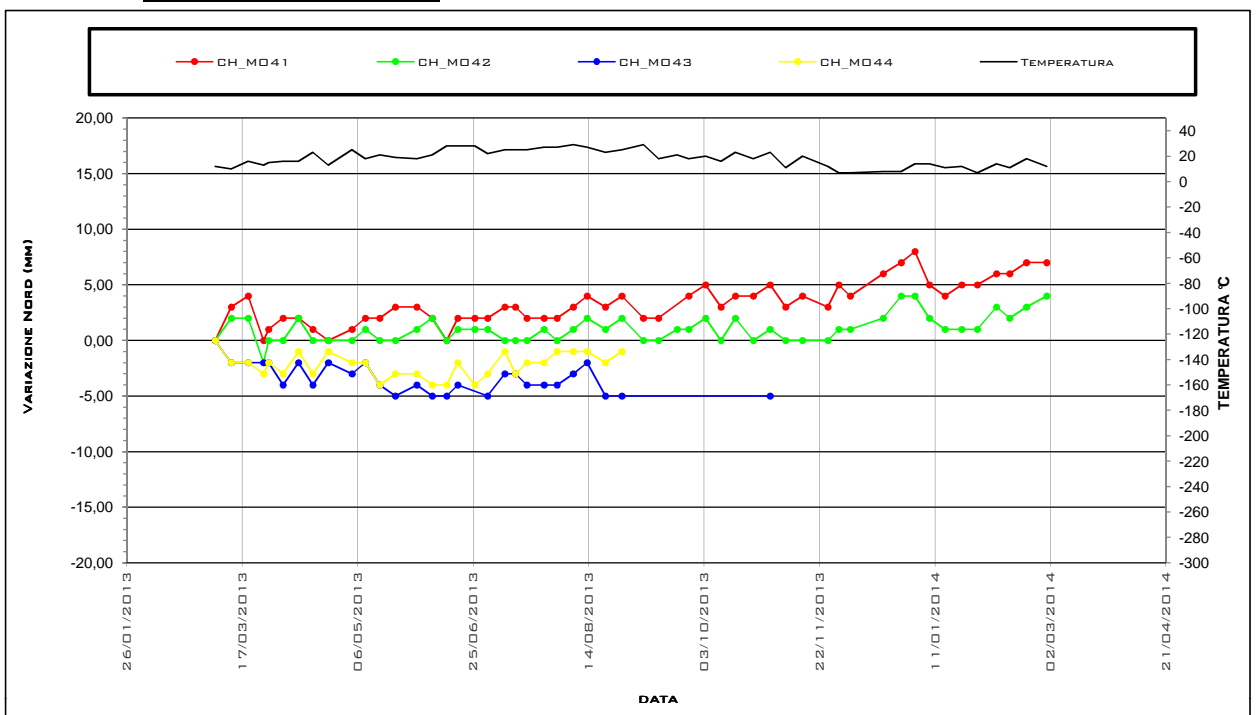
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ IV Ordine - Tufo \ 41-44  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 05/03/2013  
**Data lettura di zero** 05/03/2013



**GRAFICO EST**



**GRAFICO NORD**





Ubicazione STAZIONE CHIAIA

Opera \ \ Supplementari \ 45-47

Tipo Strumento Mire Ottiche

Data posa in opera 28/03/2013

Data lettura di zero 28/03/2013

Ultima  
Misura

49

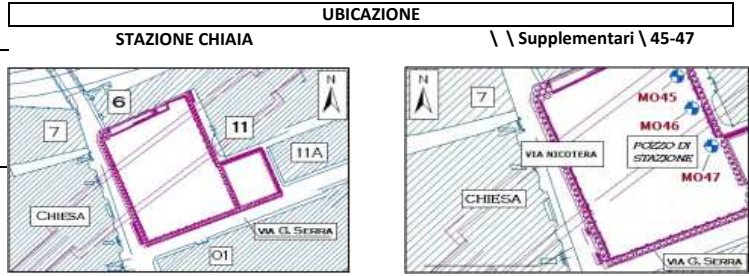
in  
data

28/02/2014

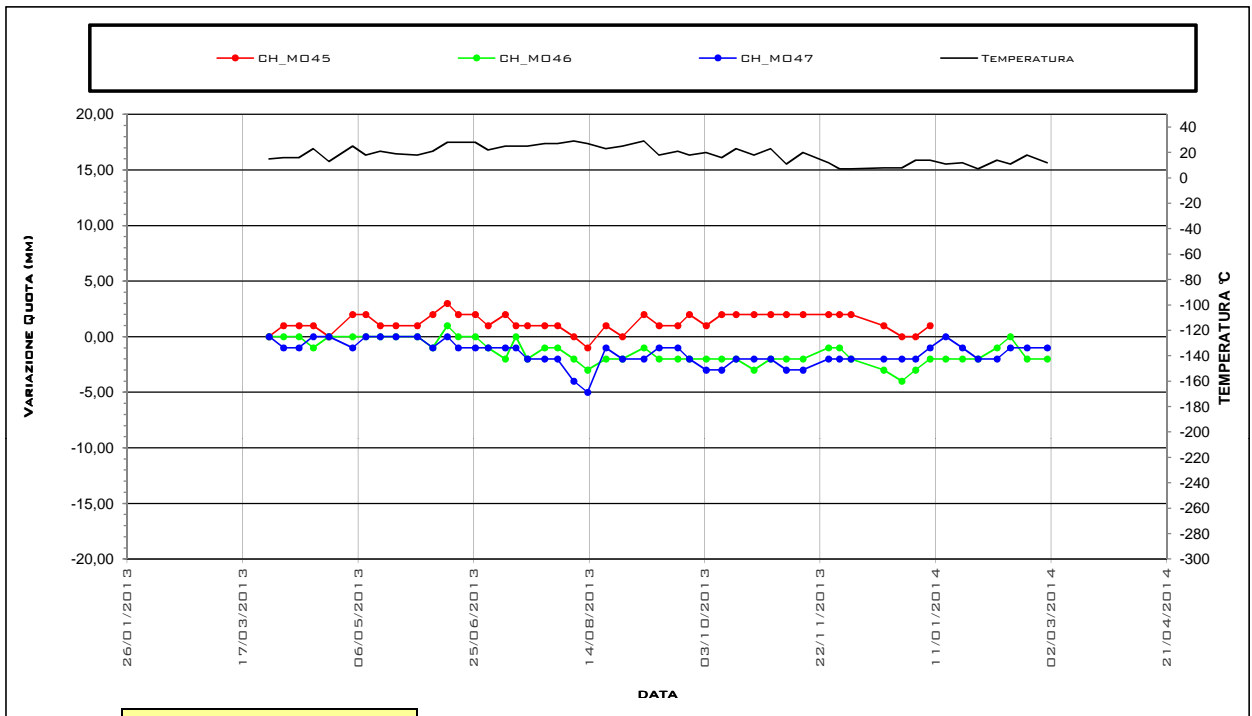
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		Temp. Media[°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media[°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media[°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]
1	28/03/2013 11.00	15,0	14,8	0,0	0,0	0,0	15,1	15,1	0,0	0,0	0,0	15,0	15,3	0,0	0,0	0,0
2	03/04/2013 17.30	16,0	14,8	1,0	0,0	-1,0	16,0	15,1	0,0	-1,0	0,0	16,0	15,3	-1,0	-1,0	0,0
3	10/04/2013 10.30	16,0	14,8	1,0	2,0	2,0	16,0	15,1	0,0	0,0	2,0	16,0	15,3	-1,0	-1,0	2,0
4	16/04/2013 15.00	23,0	14,8	1,0	0,0	0,0	23,0	15,1	-1,0	0,0	0,0	23,0	15,3	0,0	0,0	1,0
5	23/04/2013 08.30	13,0	14,8	0,0	-2,0	2,0	13,0	15,1	0,0	-1,0	2,0	13,0	15,3	0,0	0,0	2,0
6	03/05/2013 14.30	25,0	14,8	2,0	0,0	1,0	25,0	15,1	0,0	1,0	0,0	25,0	15,3	-1,0	1,0	2,0
7	09/05/2013 08.30	18,0	14,8	2,0	-1,0	2,0	18,0	15,1	0,0	0,0	1,0	18,0	15,3	0,0	-1,0	3,0
8	15/05/2013 14.30	21,0	14,8	1,0	0,0	0,0	21,0	15,1	0,0	1,0	0,0	21,0	15,3	0,0	2,0	2,0
9	22/05/2013 08.30	19,0	14,8	1,0	0,0	0,0	19,0	15,1	0,0	1,0	0,0	19,0	15,3	0,0	1,0	2,0
10	31/05/2013 15.30	18,0	14,8	1,0	1,0	0,0	18,0	15,1	0,0	0,0	0,0	18,0	15,3	0,0	1,0	1,0
11	07/06/2013 08.30	21,0	14,8	2,0	0,0	-1,0	21,0	15,1	-1,0	1,0	1,0	21,0	15,3	-1,0	2,0	1,0
12	13/06/2013 14.30	28,0	14,8	3,0	3,0	0,0	28,0	15,1	1,0	3,0	-1,0	28,0	15,3	0,0	3,0	1,0
13	18/06/2013 09.00	28,0	14,8	2,0	0,0	1,0	28,0	15,1	0,0	1,0	1,0	28,0	15,3	-1,0	1,0	2,0
14	25/06/2013 18.00	28,0	14,8	2,0	1,0	1,0	28,0	15,1	0,0	1,0	0,0	28,0	15,3	-1,0	1,0	1,0
15	01/07/2013 07.30	22,0	14,8	1,0	0,0	0,0	22,0	15,1	-1,0	1,0	0,0	22,0	15,3	-1,0	1,0	2,0
16	08/07/2013 17.30	25,0	14,8	2,0	2,0	1,0	25,0	15,1	-2,0	2,0	1,0	25,0	15,3	-1,0	2,0	2,0
17	13/07/2013 07.30	25,0	14,8	1,0	1,0	1,0	25,0	15,1	0,0	0,0	0,0	25,0	15,3	-1,0	1,0	3,0
18	18/07/2013 07.30	25,0	14,8	1,0	1,0	1,0	25,0	15,1	-2,0	2,0	1,0	25,0	15,3	-2,0	3,0	3,0
19	25/07/2013 18.00	27,0	14,8	1,0	1,0	1,0	27,0	15,1	-1,0	2,0	1,0	27,0	15,3	-2,0	3,0	3,0
20	31/07/2013 09.00	27,0	14,8	1,0	0,0	1,0	27,0	15,1	-1,0	1,0	1,0	27,0	15,3	-2,0	1,0	4,0
21	07/08/2013 09.00	29,0	14,8	0,0	2,0	2,0	29,0	15,1	-2,0	2,0	1,0	29,0	15,2	-4,0	2,0	3,0
22	13/08/2013 09.00	27,0	14,8	-1,0	3,0	3,0	27,0	15,1	-3,0	2,0	0,0	27,0	15,2	-5,0	3,0	2,0
23	21/08/2013 07.30	23,0	14,8	1,0	1,0	1,0	23,0	15,1	-2,0	3,0	1,0	23,0	15,3	-1,0	3,0	3,0
24	28/08/2013 10.30	25,0	14,8	0,0	2,0	1,0	25,0	15,1	-2,0	3,0	1,0	25,0	15,3	-2,0	3,0	4,0
25	06/09/2013 17.30	29,0	14,8	2,0	2,0	1,0	29,0	15,1	-1,0	2,0	1,0	29,0	15,3	-2,0	2,0	2,0
26	13/09/2013 07.30	18,0	14,8	1,0	2,0	1,0	18,0	15,1	-2,0	2,0	1,0	18,0	15,3	-1,0	1,0	2,0
27	21/09/2013 09.30	21,0	14,8	1,0	2,0	0,0	21,0	15,1	-2,0	2,0	1,0	21,0	15,3	-1,0	2,0	2,0
28	26/09/2013 09.30	18,0	14,8	2,0	1,0	1,0	18,0	15,1	-2,0	2,0	1,0	18,0	15,3	-2,0	3,0	3,0
29	03/10/2013 16.30	20,0	14,8	1,0	2,0	1,0	20,0	15,1	-2,0	3,0	1,0	20,0	15,3	-3,0	3,0	2,0
30	10/10/2013 08.30	16,0	14,8	2,0	2,0	2,0	16,0	15,1	-2,0	2,0	3,0	16,0	15,3	-3,0	4,0	4,0
31	16/10/2013 14.30	23,0	14,8	2,0	1,0	1,0	23,0	15,1	-2,0	2,0	2,0	23,0	15,3	-2,0	2,0	3,0
32	24/10/2013 08.30	18,0	14,8	2,0	2,0	1,0	18,0	15,1	-3,0	3,0	1,0	18,0	15,3	-2,0	3,0	4,0
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
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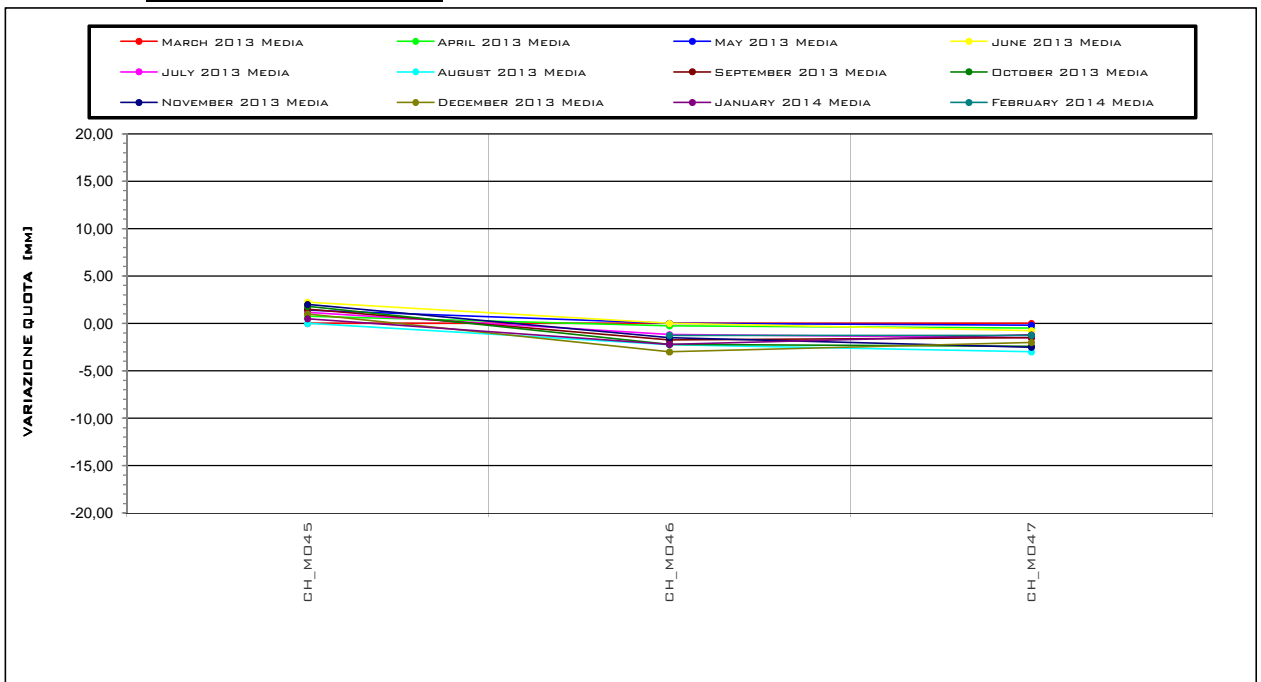
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 45-47  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 28/03/2013  
**Data lettura di zero** 28/03/2013



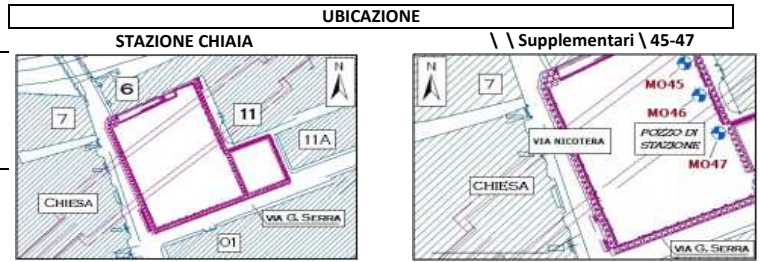
**GRAFICO QUOTA**



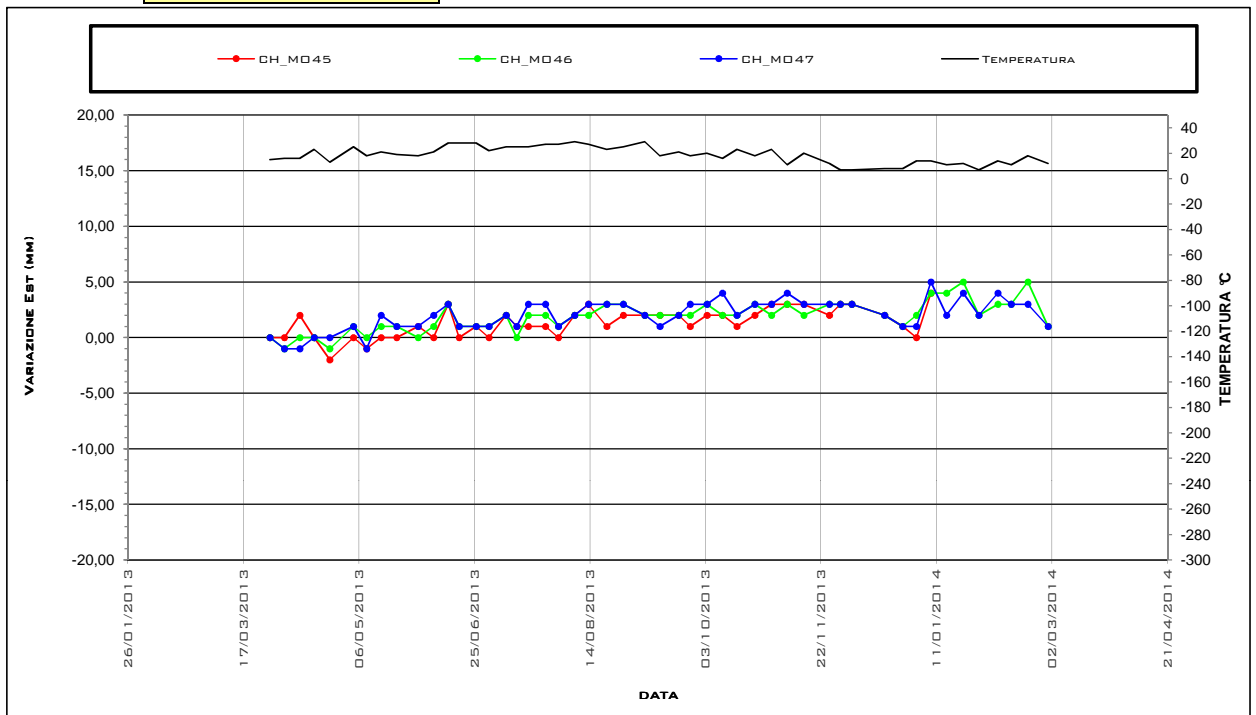
**GRAFICO ISOCRONE**



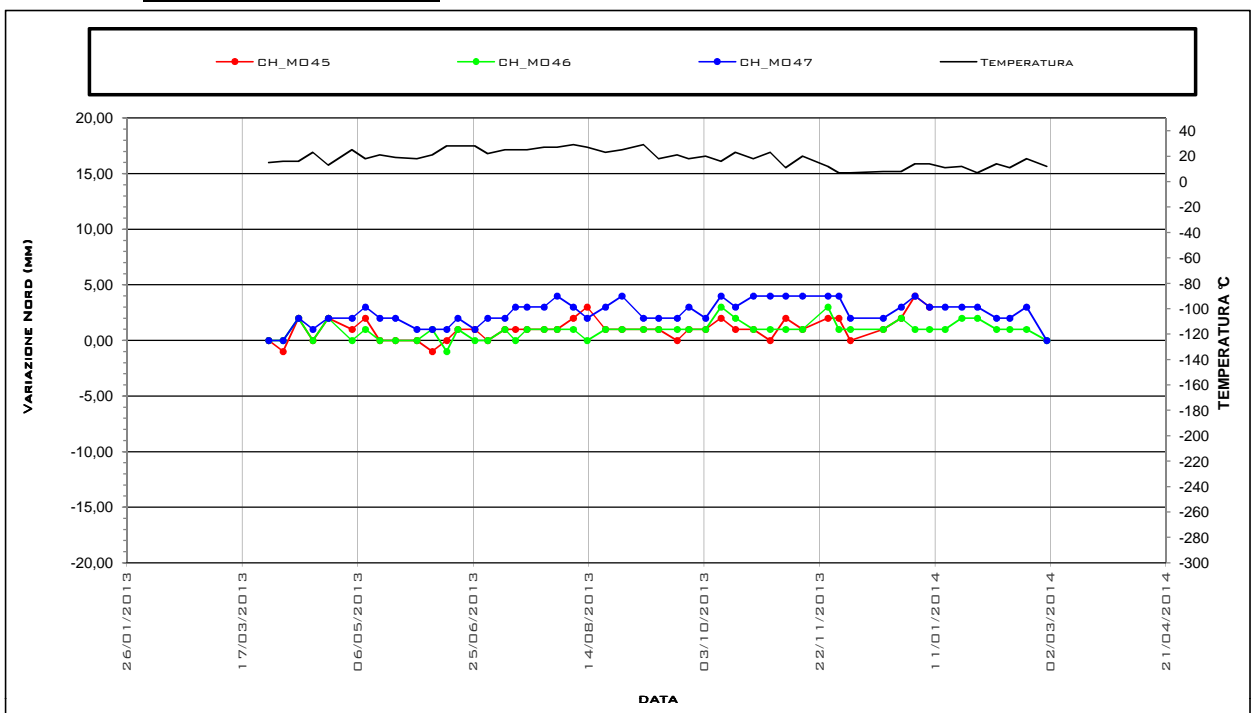
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 45-47  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 28/03/2013  
**Data lettura di zero** 28/03/2013



**GRAFICO EST**



**GRAFICO NORD**



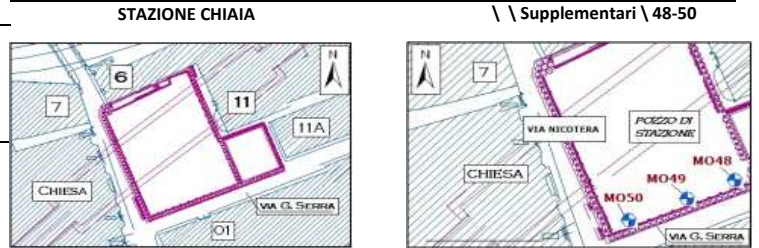

**Ubicazione STAZIONE CHIAIA**
**Opera \ \ Supplementari \ 48-50**
**Tipo Strumento Mire Ottiche**
**Data posa in opera 28/03/2013**
**Data lettura di zero 28/03/2013**
**Ultima Misura** 49 **in data** **28/02/2014**

Letto. n°	DATA	CH_M048					CH_M049					CH_M050				
		Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]
1	28/03/2013 11.00	15,0	16,1	0,0	0,0	0,0	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

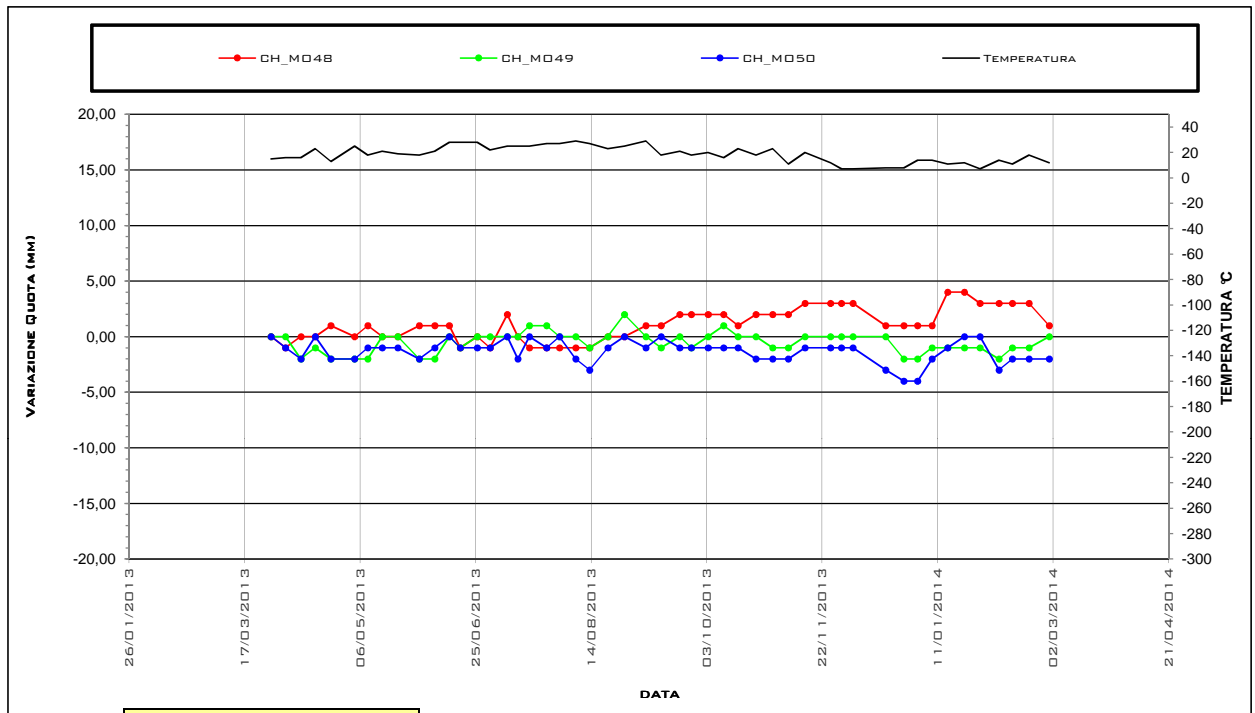


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 48-50  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 28/03/2013  
**Data lettura di zero** 28/03/2013

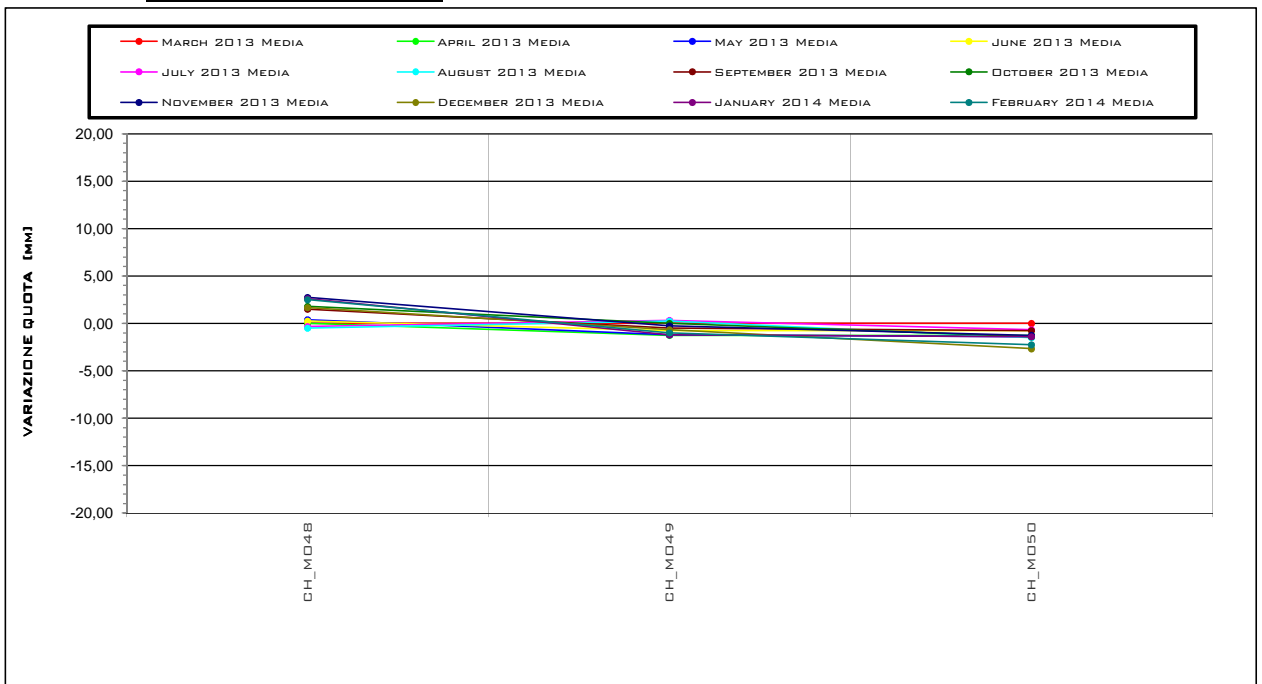
**UBICAZIONE**



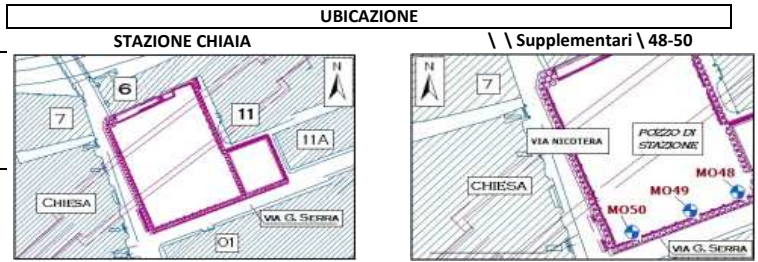
**GRAFICO QUOTA**



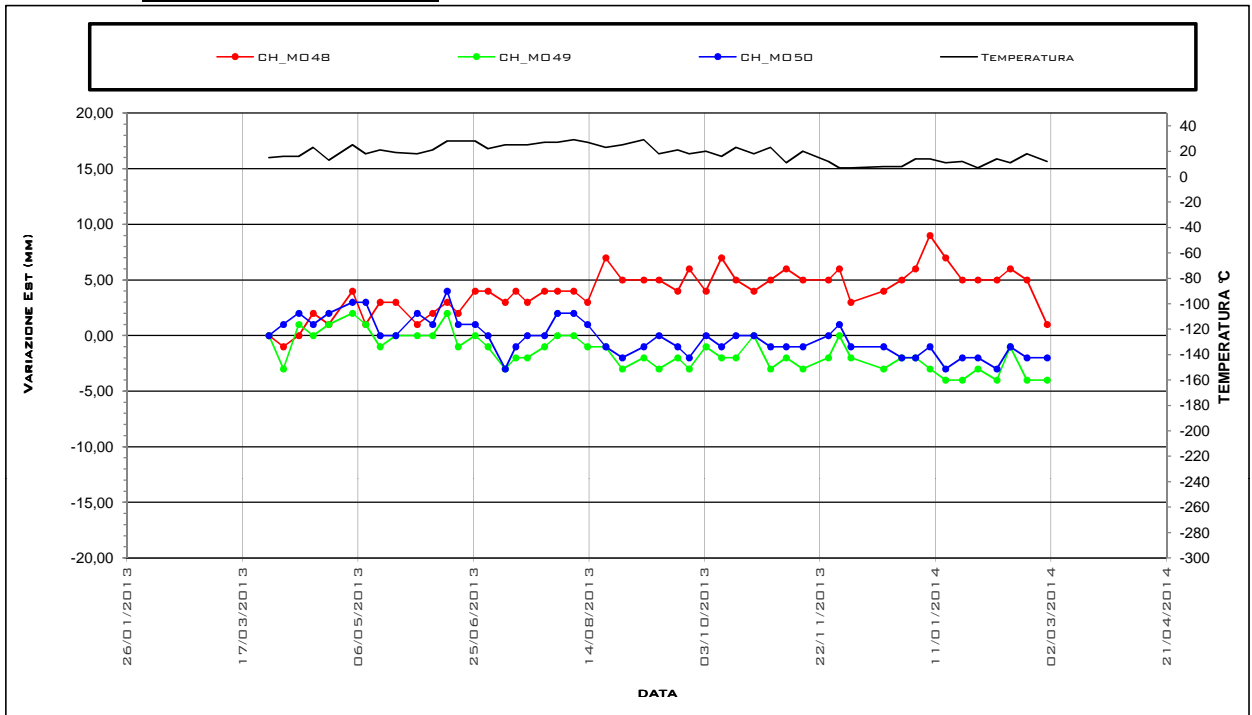
**GRAFICO ISOCRONE**



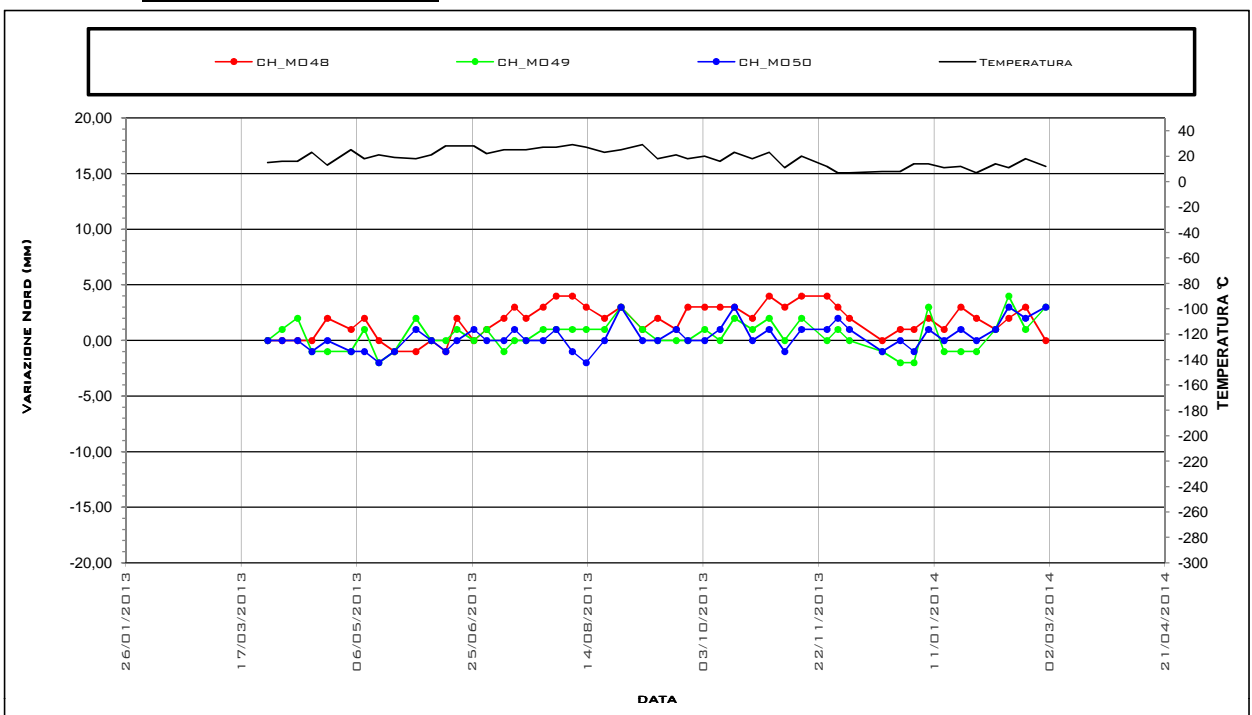
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 48-50  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 28/03/2013  
**Data lettura di zero** 28/03/2013



**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** 49 **in data** 28/02/2014

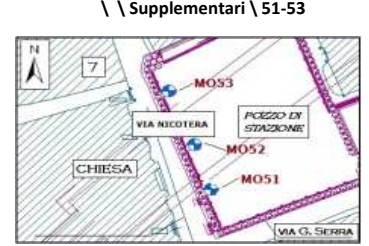
Letto. n°	DATA	CH_M051					CH_M052					CH_M053				
		Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]
1	28/03/2013 11.00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



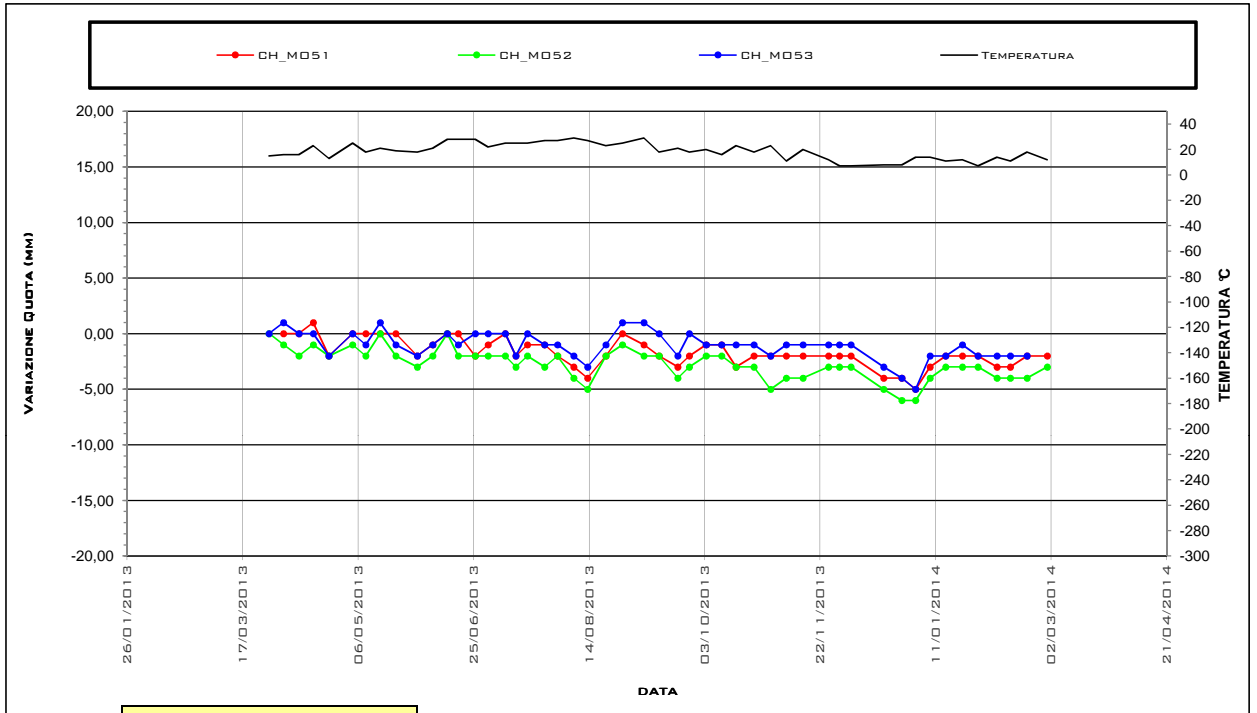


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 51-53  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 03/04/2013  
**Data lettura di zero** 03/04/2013

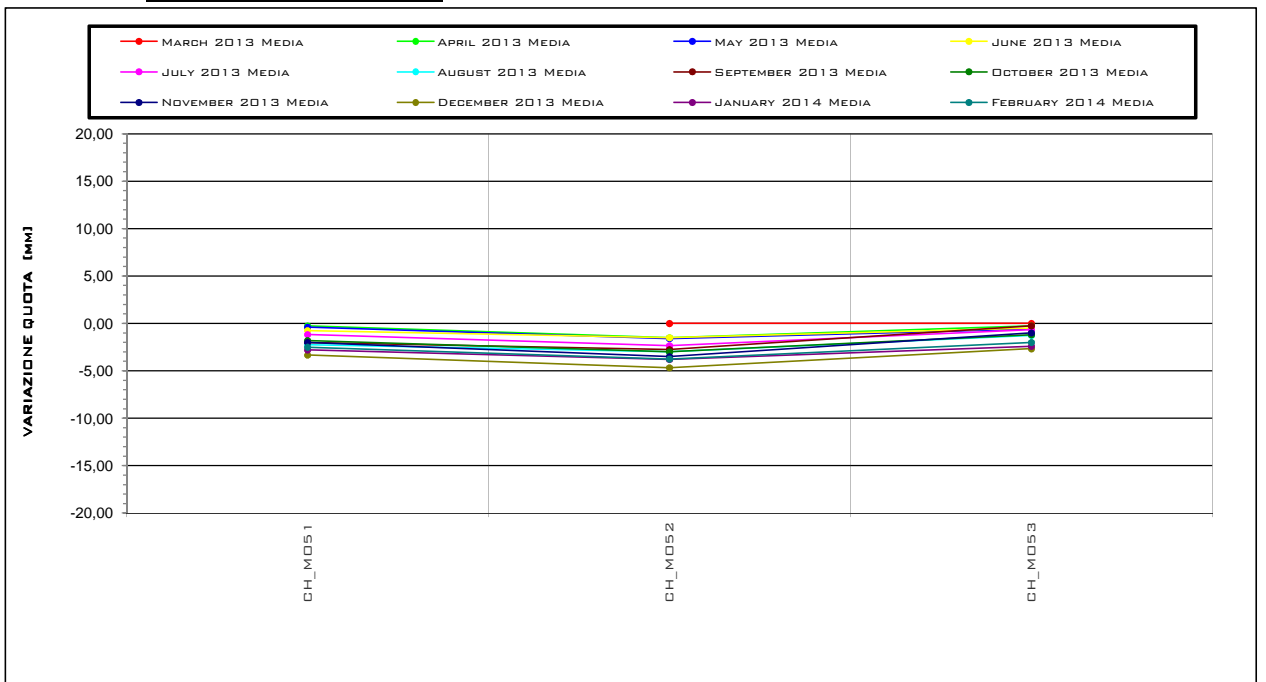
**UBICAZIONE**



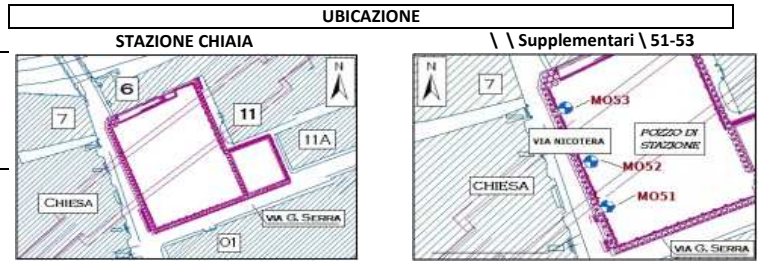
**GRAFICO QUOTA**



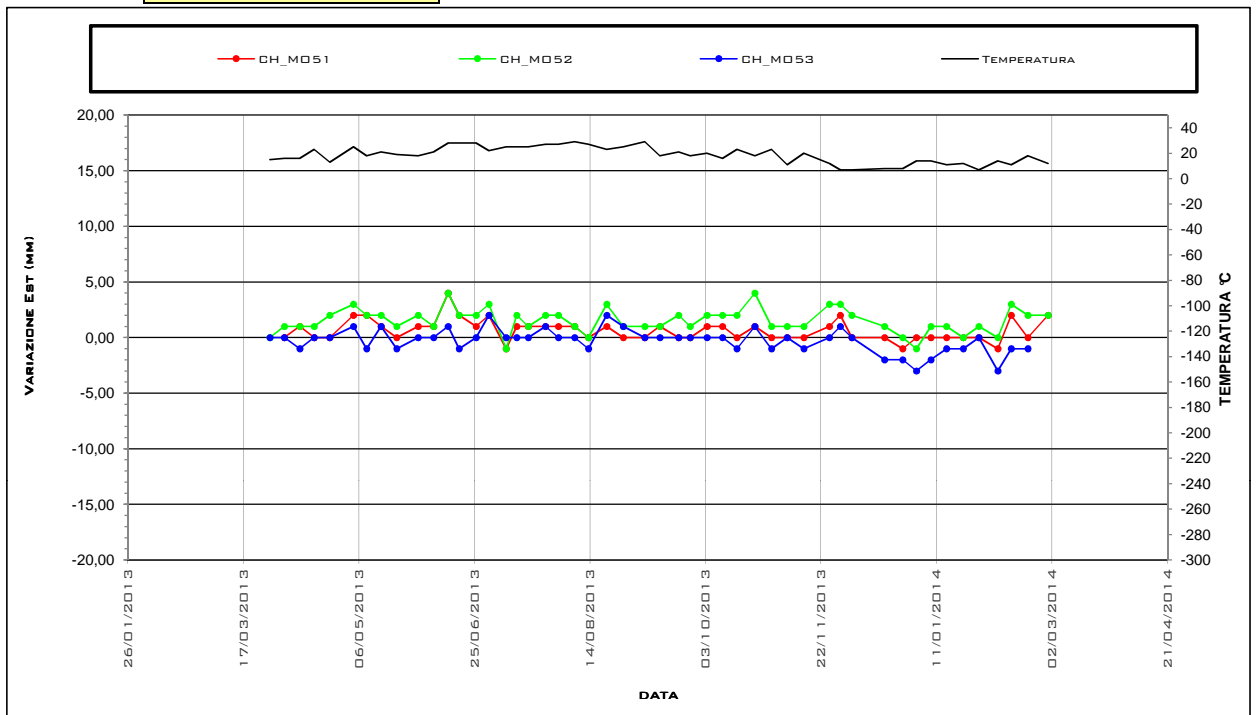
**GRAFICO ISOCRONE**



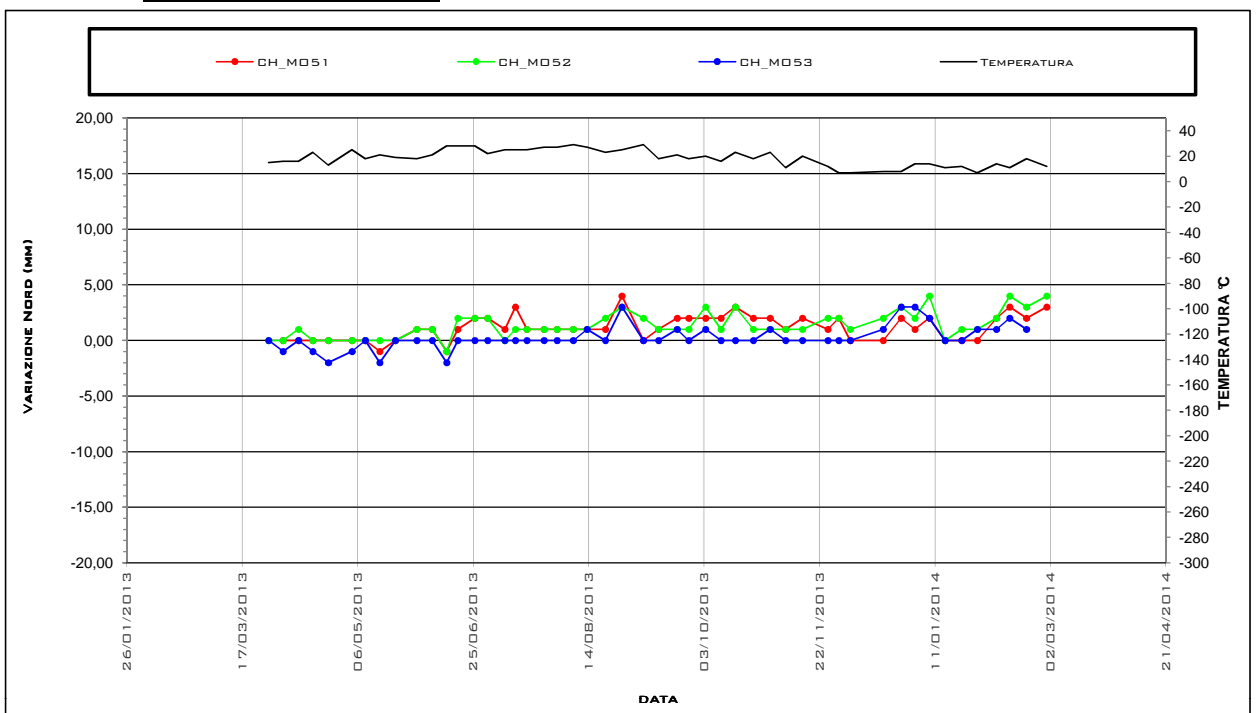
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 51-53  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 03/04/2013  
**Data lettura di zero** 03/04/2013



**GRAFICO EST**



**GRAFICO NORD**





**Ubicazione STAZIONE CHIAIA**

**Opera \ \ Supplementari \ 54-55**

**Tipo Strumento Mire Ottiche**

**Data posa in opera 28/03/2013**

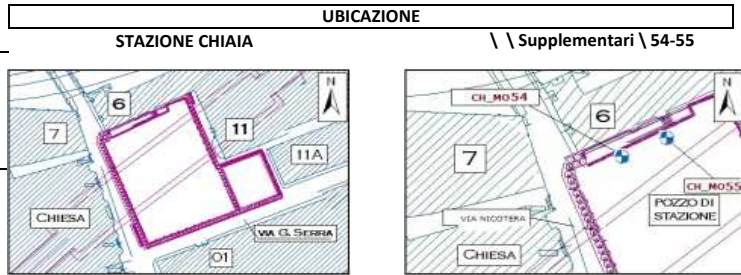
**Data lettura di zero 28/03/2013**

**Ultima** 49 **in** **28/02/2014**  
**Misura** **data**

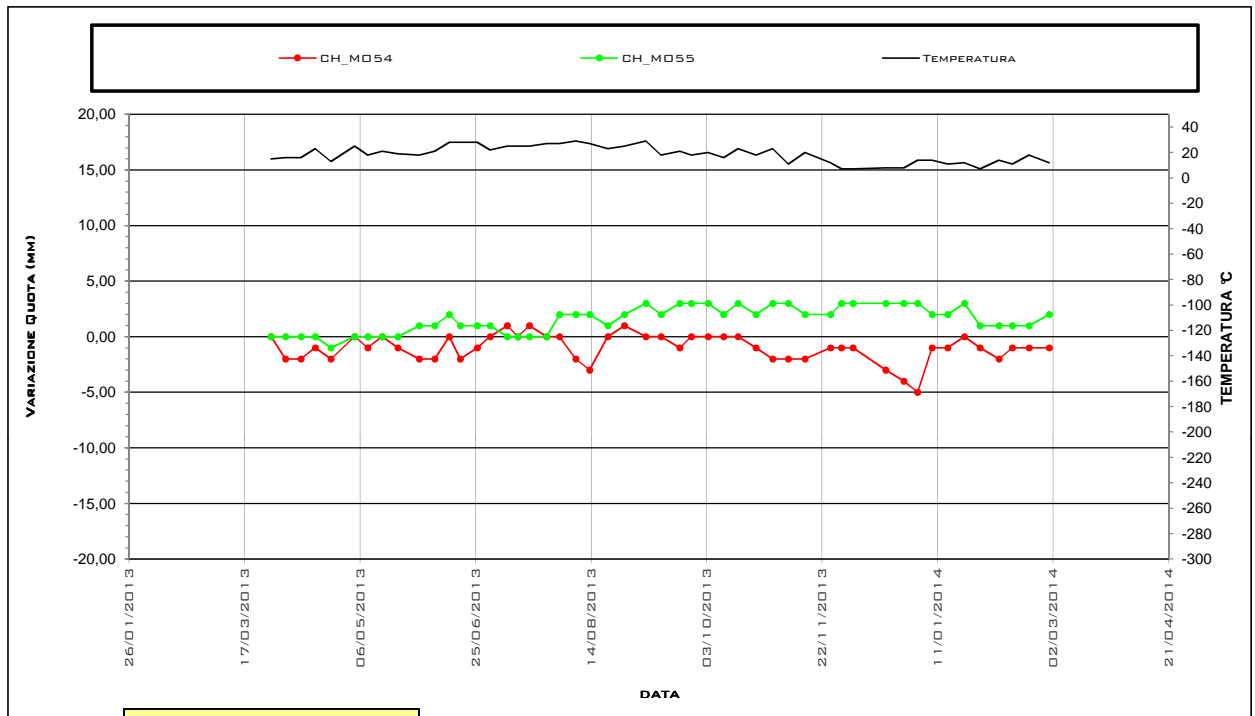
Letto. n°	DATA	CH_M054					CH_M055				
		Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]
1	28/03/2013 11.00	15,0	14,4	0,0	0,0	0,0	15,0	14,5	0,0	0,0	0,0
2	03/04/2013 17.30	16,0	14,4	-2,0	-2,0	0,0	16,0	14,5	0,0	0,0	0,0
3	10/04/2013 10.30	16,0	14,4	-2,0	-2,0	0,0	16,0	14,5	0,0	1,0	2,0
4	16/04/2013 15.00	23,0	14,4	-1,0	-1,0	-1,0	23,0	14,5	0,0	1,0	-1,0
5	23/04/2013 08.30	13,0	14,4	-2,0	-2,0	-1,0	13,0	14,5	-1,0	0,0	1,0
6	03/05/2013 14.30	25,0	14,4	0,0	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



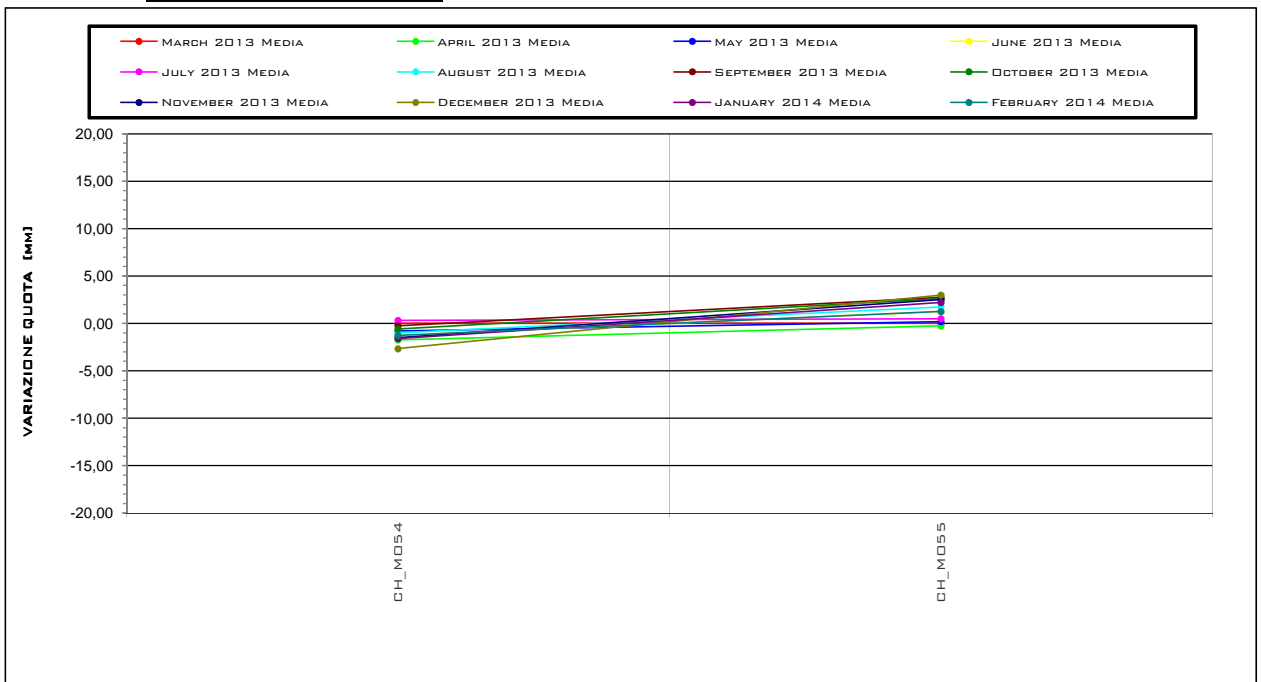
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 54-55  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 28/03/2013  
**Data lettura di zero** 28/03/2013



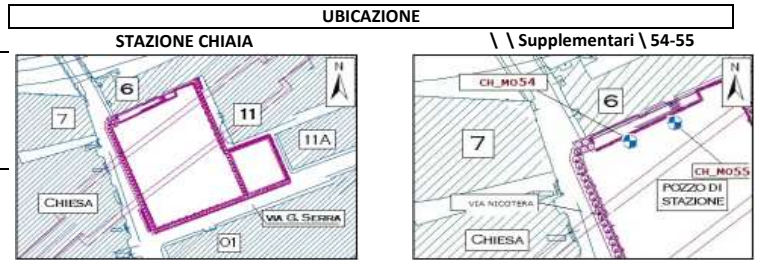
**GRAFICO QUOTA**



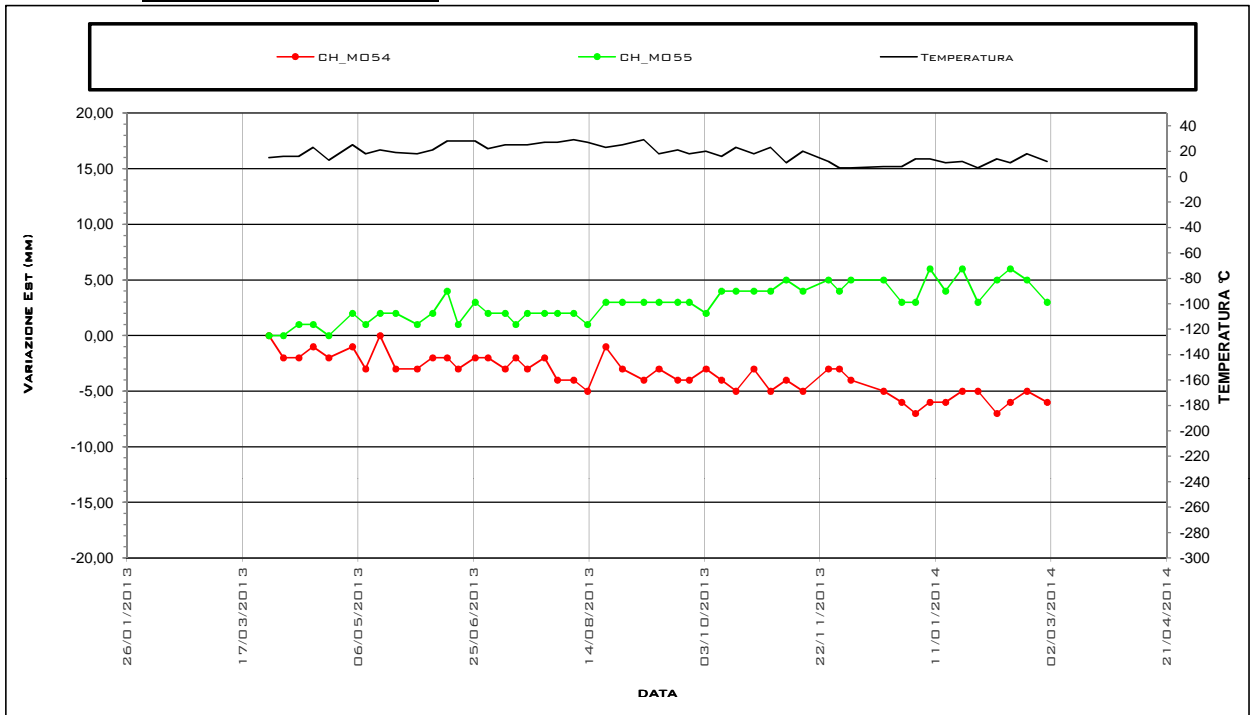
**GRAFICO ISOCRONE**



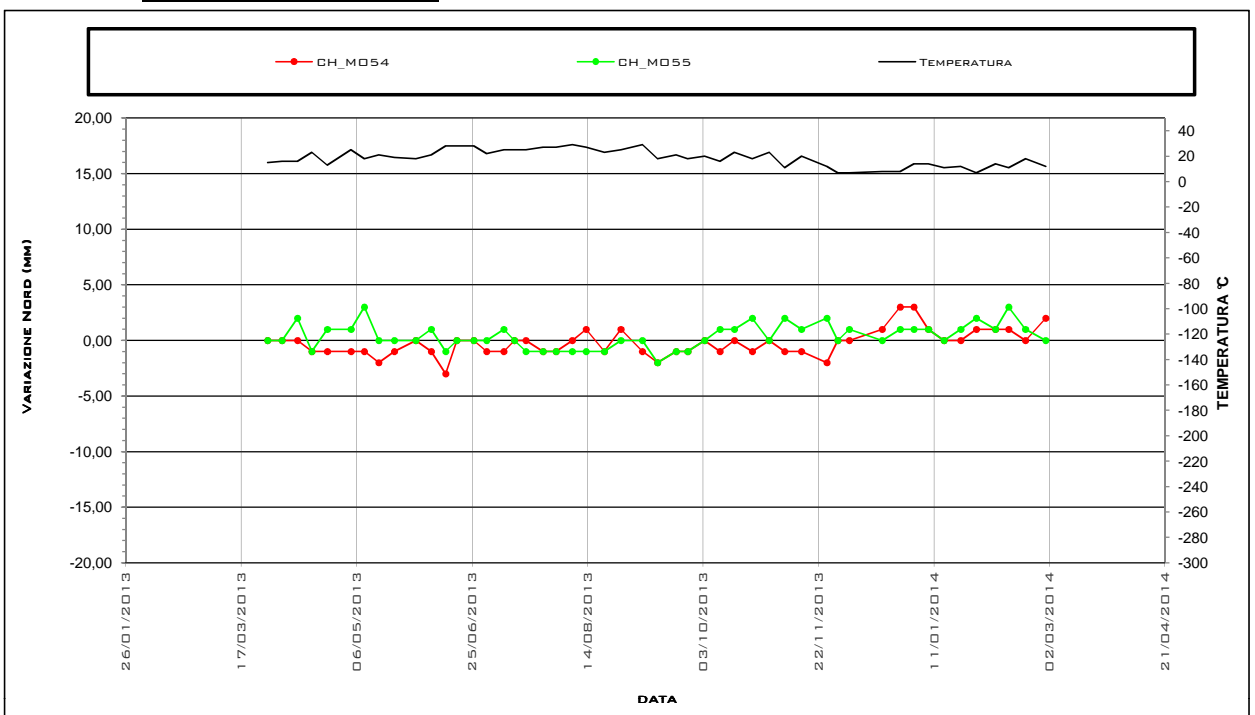
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 54-55  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 28/03/2013  
**Data lettura di zero** 28/03/2013



**GRAFICO EST**



**GRAFICO NORD**





Ubicazione STAZIONE CHIAIA

Opera \ \ Supplementari \ 56-59

Tipo Strumento Mire Ottiche

Data posa in opera 28/03/2013

Data lettura di zero 28/03/2013

Ultima Misura 49 in data

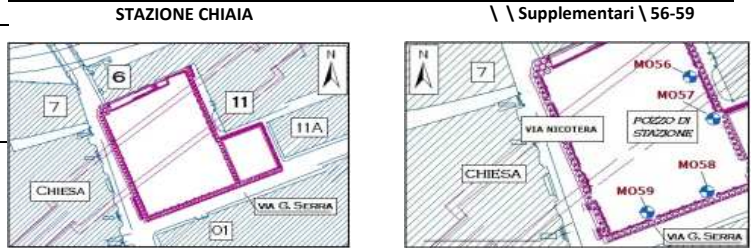
28/02/2014

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

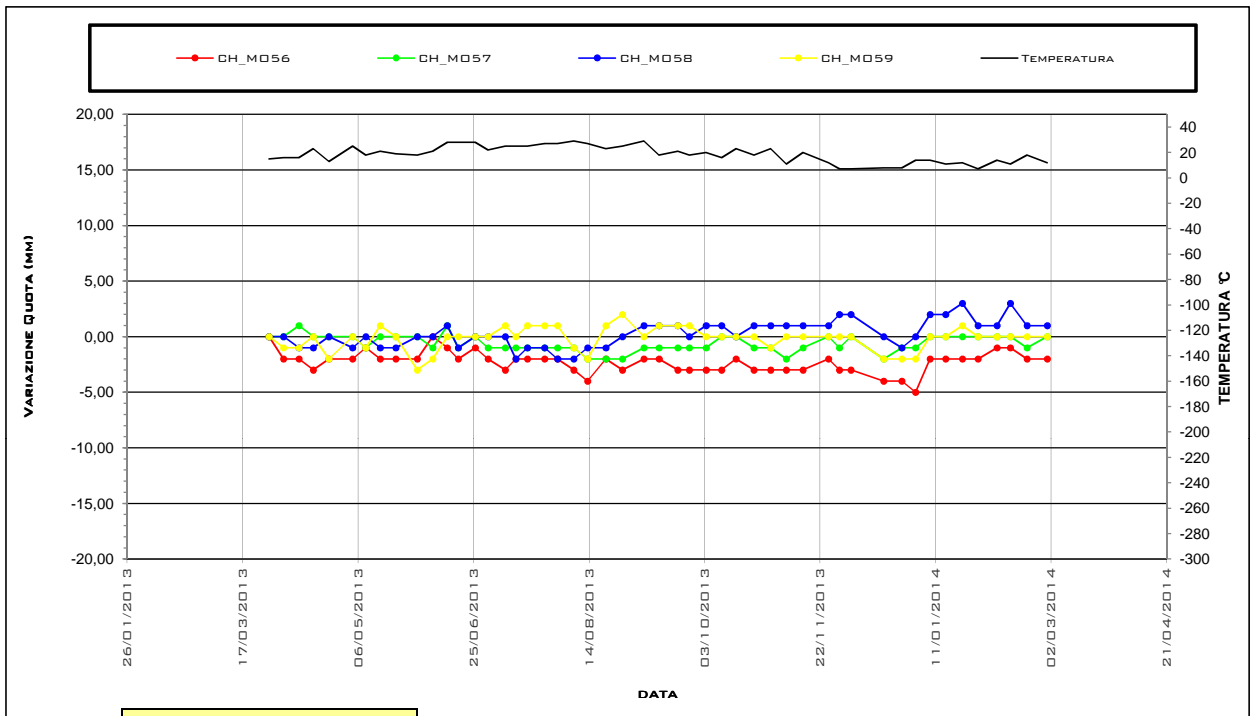


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 56-59  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 28/03/2013  
**Data lettura di zero** 28/03/2013

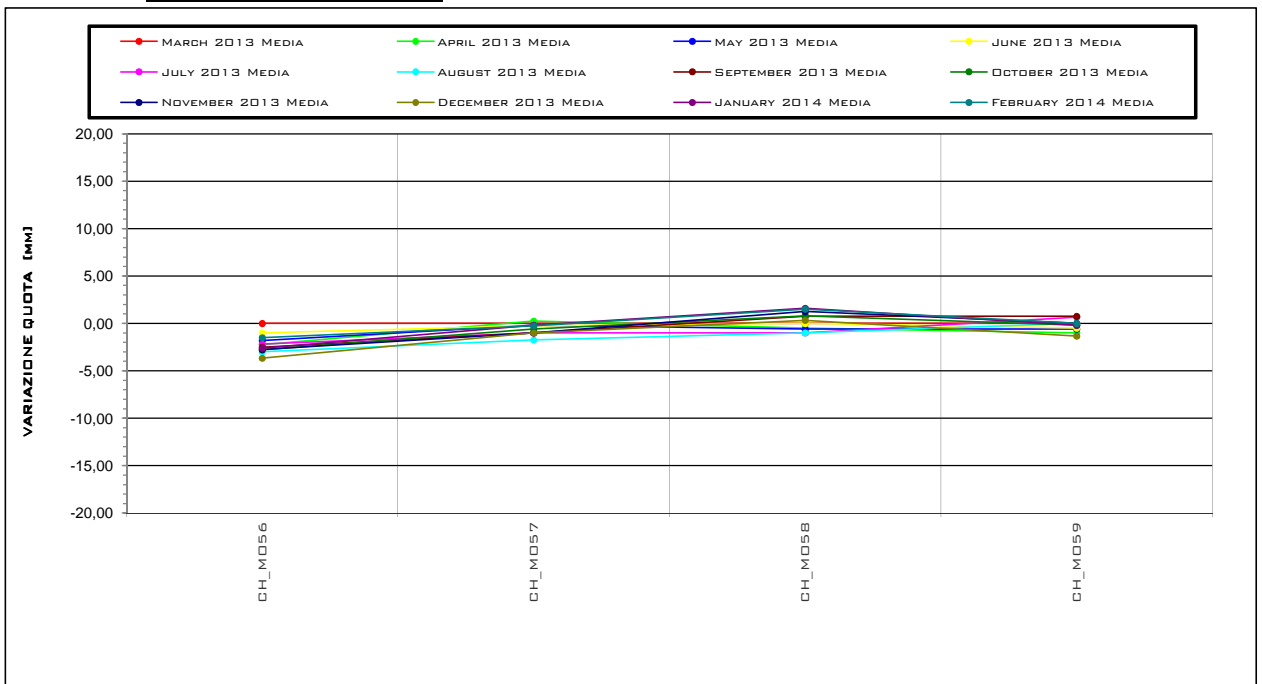
**UBICAZIONE**



**GRAFICO QUOTA**

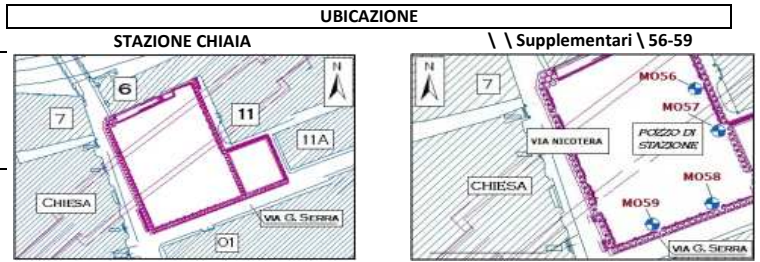


**GRAFICO ISOCRONE**

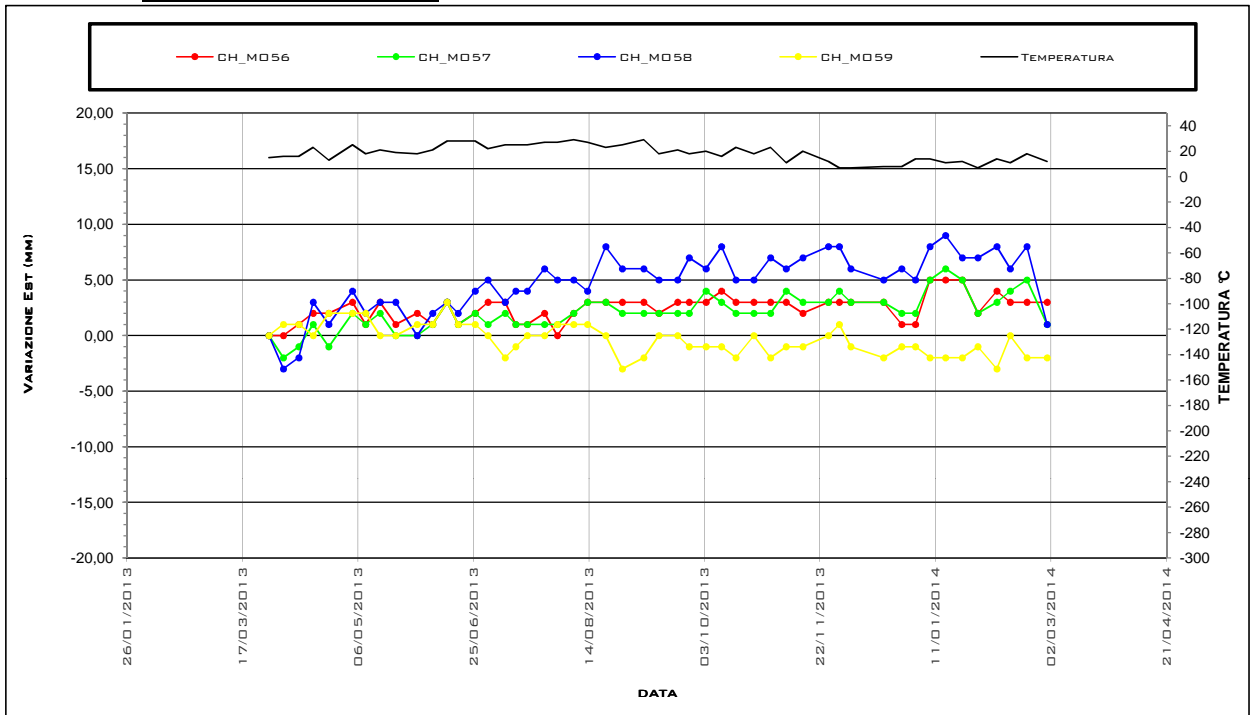




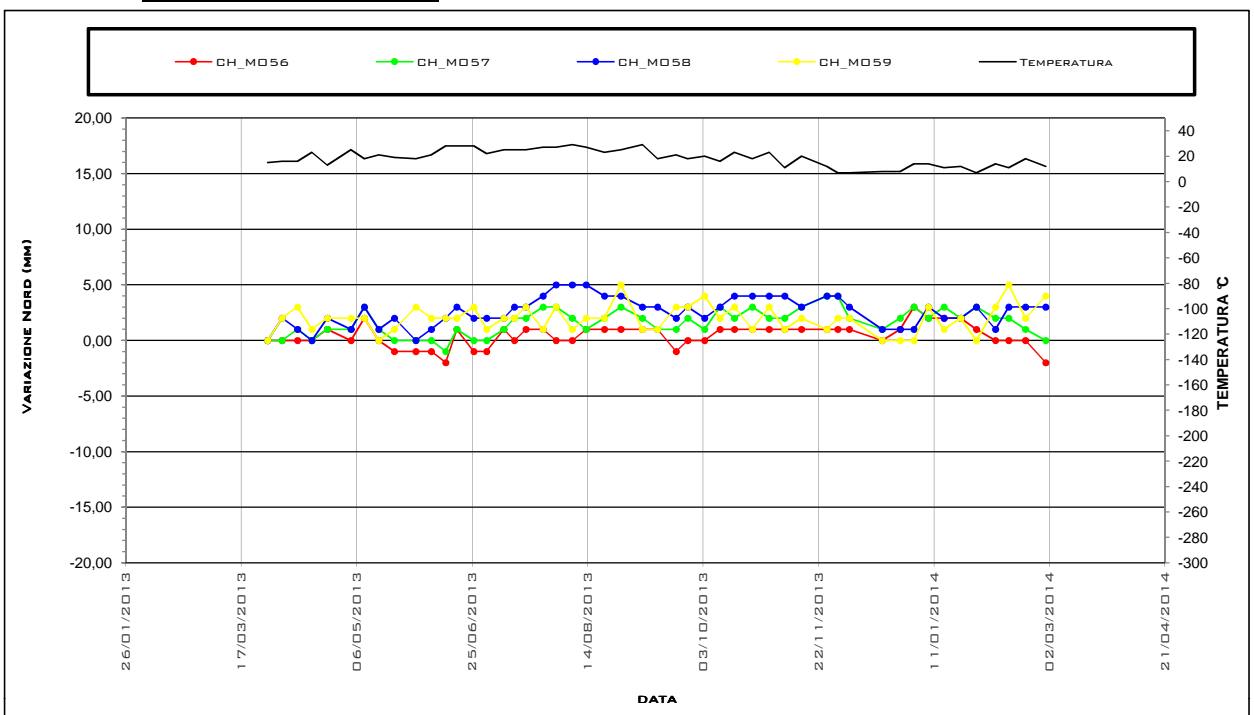
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 56-59  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 28/03/2013  
**Data lettura di zero** 28/03/2013



**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**

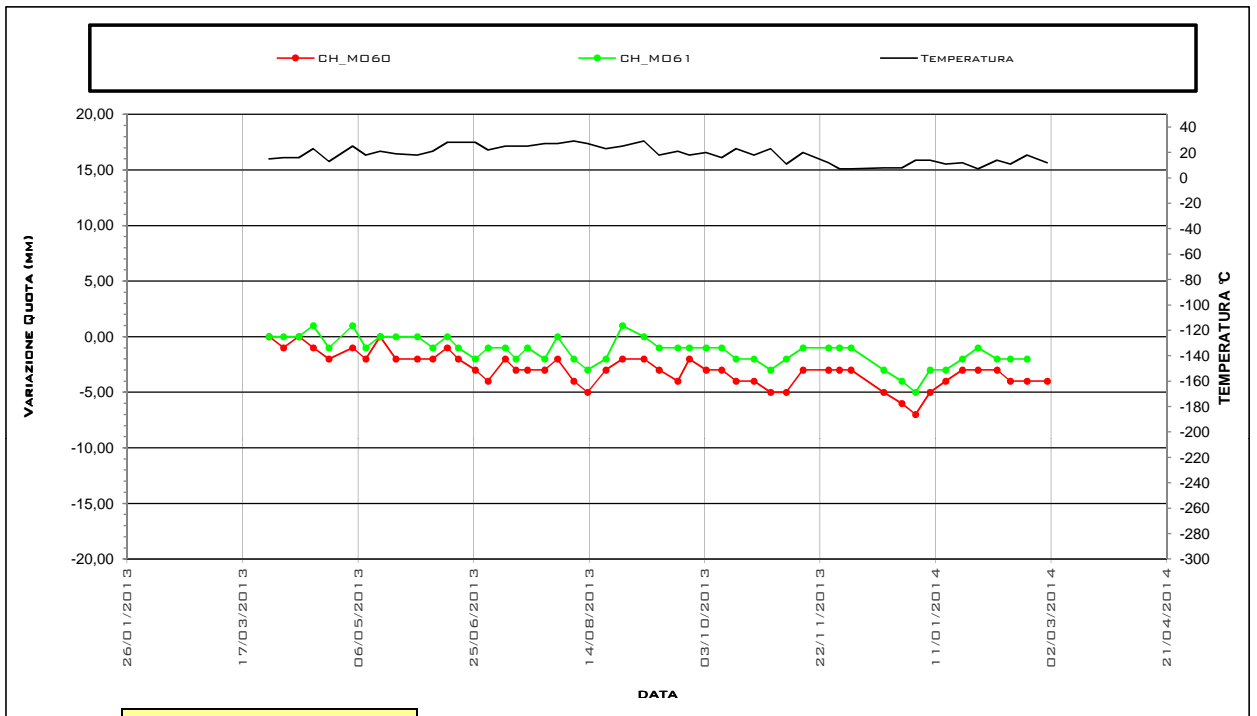
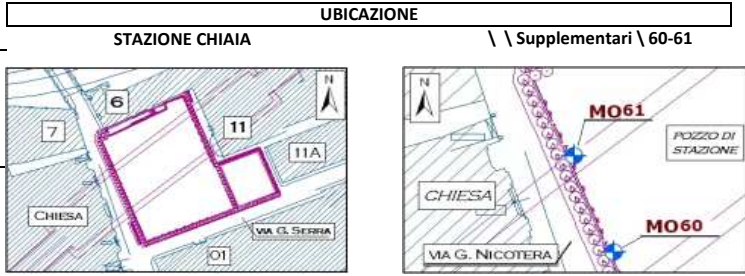
**Ultima** 49 **in** **28/02/2014**  
**Misura** **data**

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

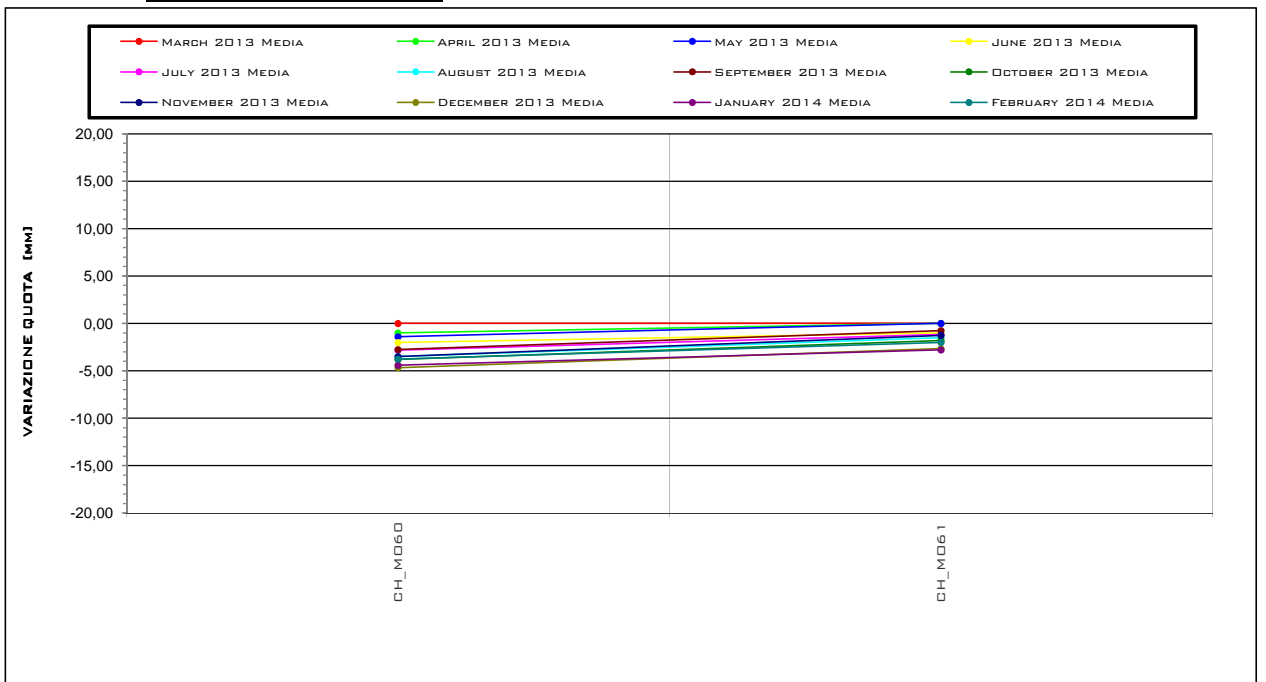


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 60-61  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 28/03/2013  
**Data lettura di zero** 28/03/2013

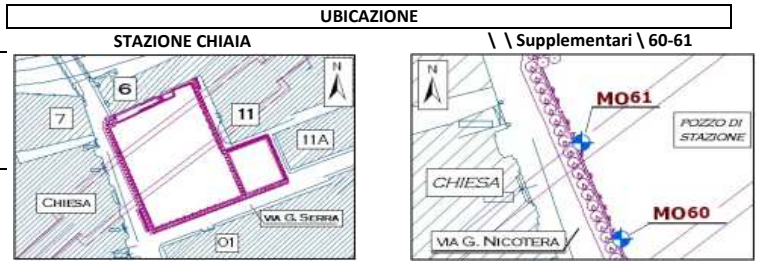
**GRAFICO QUOTA**



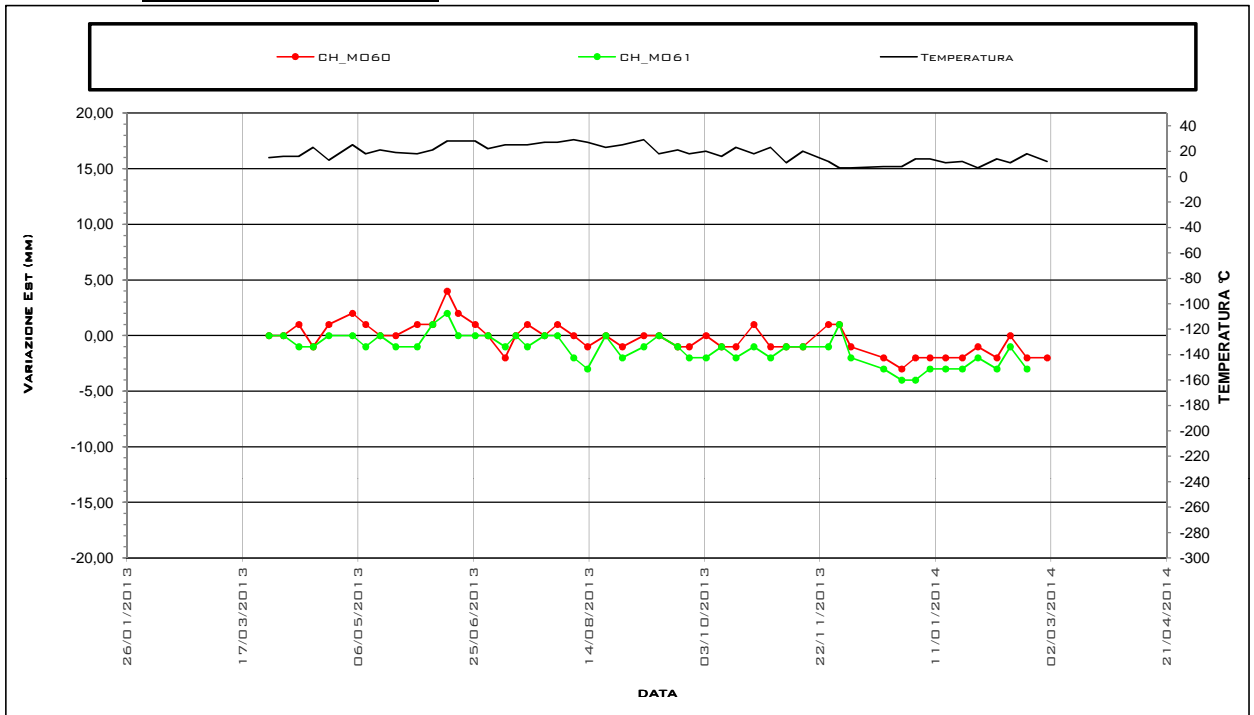
**GRAFICO ISOCRONE**



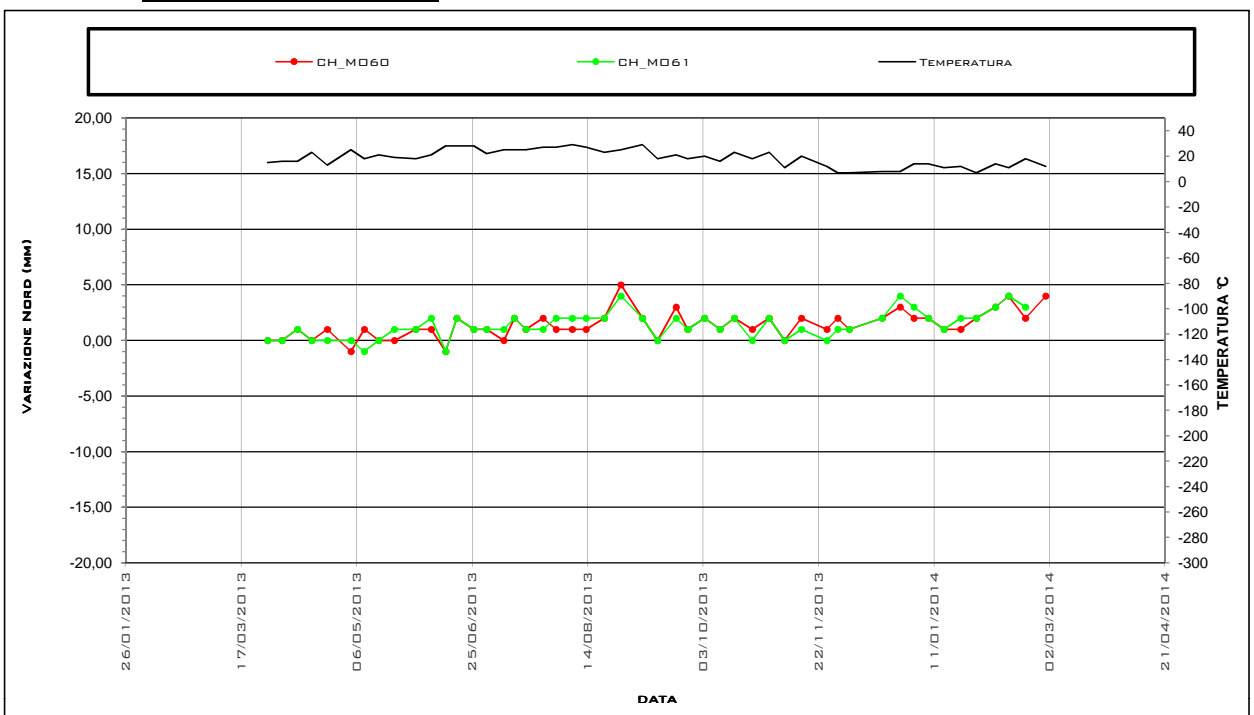
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 60-61  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 28/03/2013  
**Data lettura di zero** 28/03/2013



**GRAFICO EST**



**GRAFICO NORD**

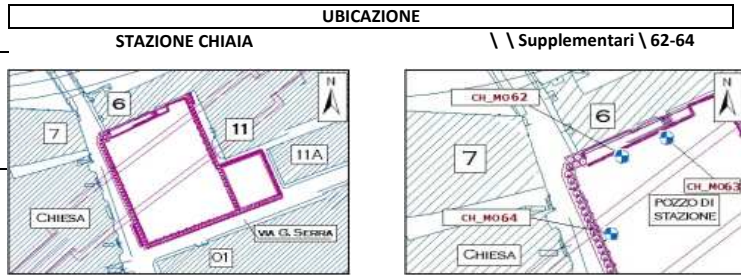



**Ubicazione STAZIONE CHIAIA**
**Opera \ \ Supplementari \ 62-64**
**Tipo Strumento Mire Ottiche**
**Data posa in opera 28/03/2013**
**Data lettura di zero 28/03/2013**
**Ultima Misura** 49 **in data** 28/02/2014

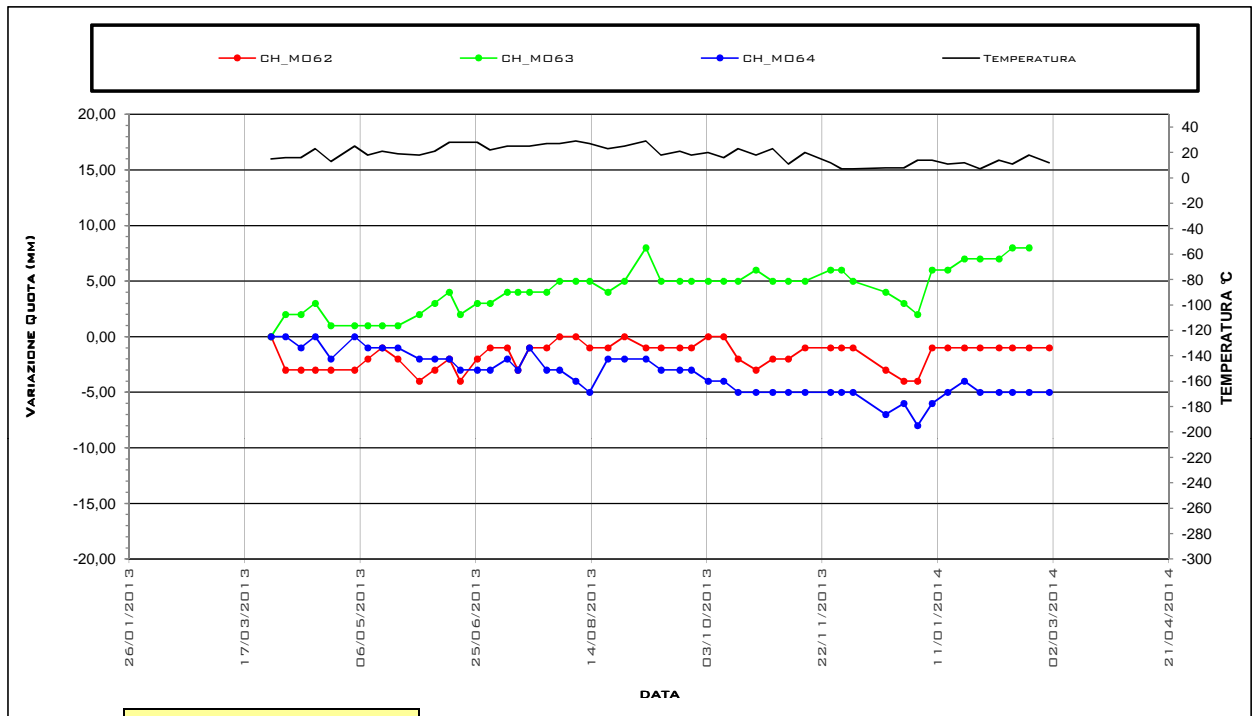
Letto. n°	DATA	CH_M062					CH_M063					CH_M064				
		Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]
1	28/03/2013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



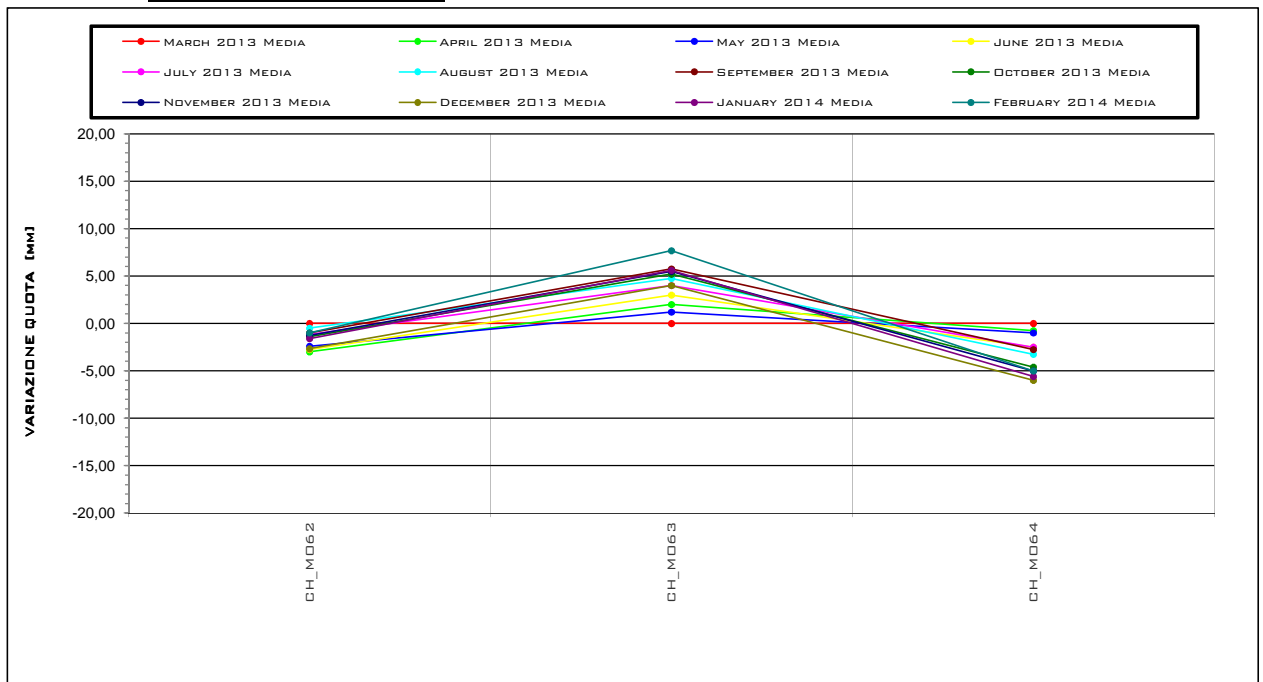
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 62-64  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 28/03/2013  
**Data lettura di zero** 28/03/2013



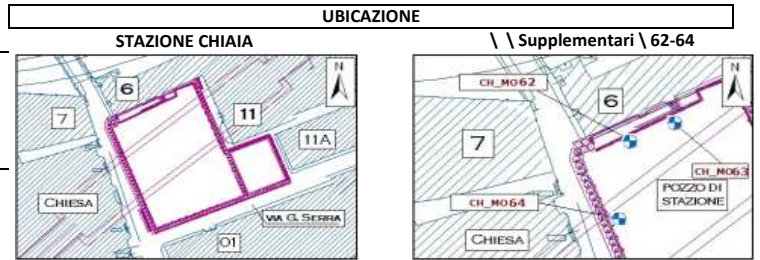
**GRAFICO QUOTA**



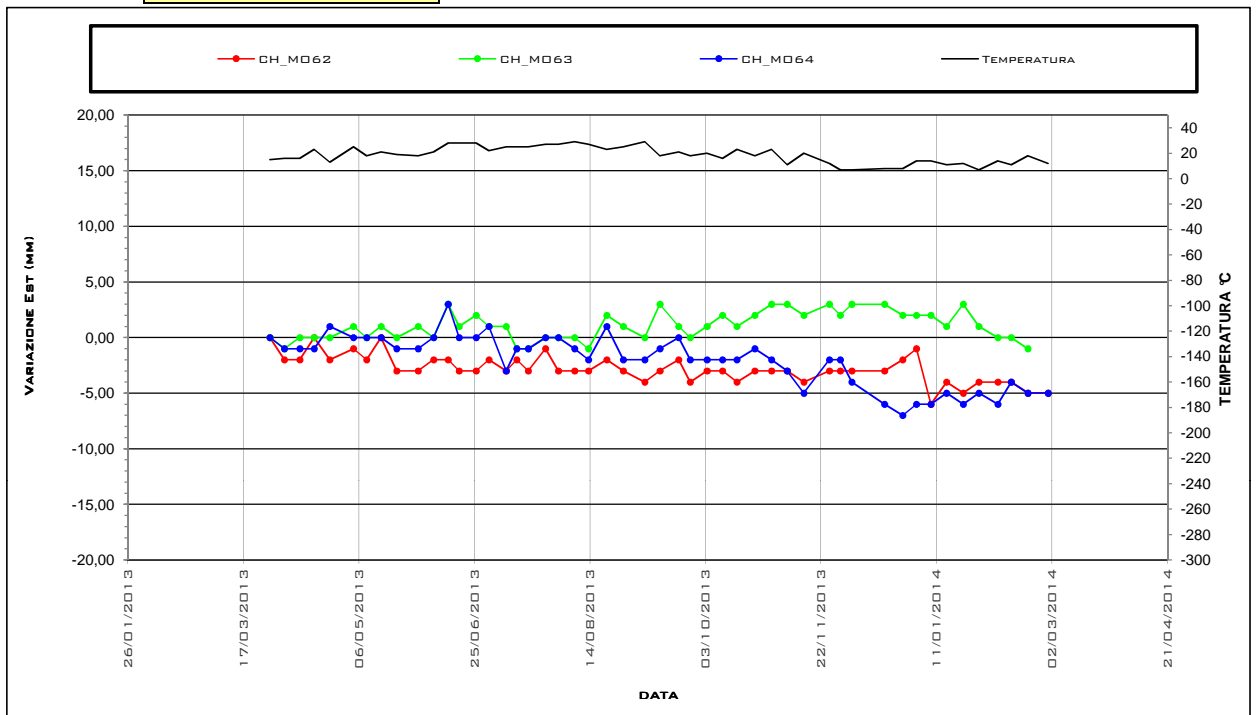
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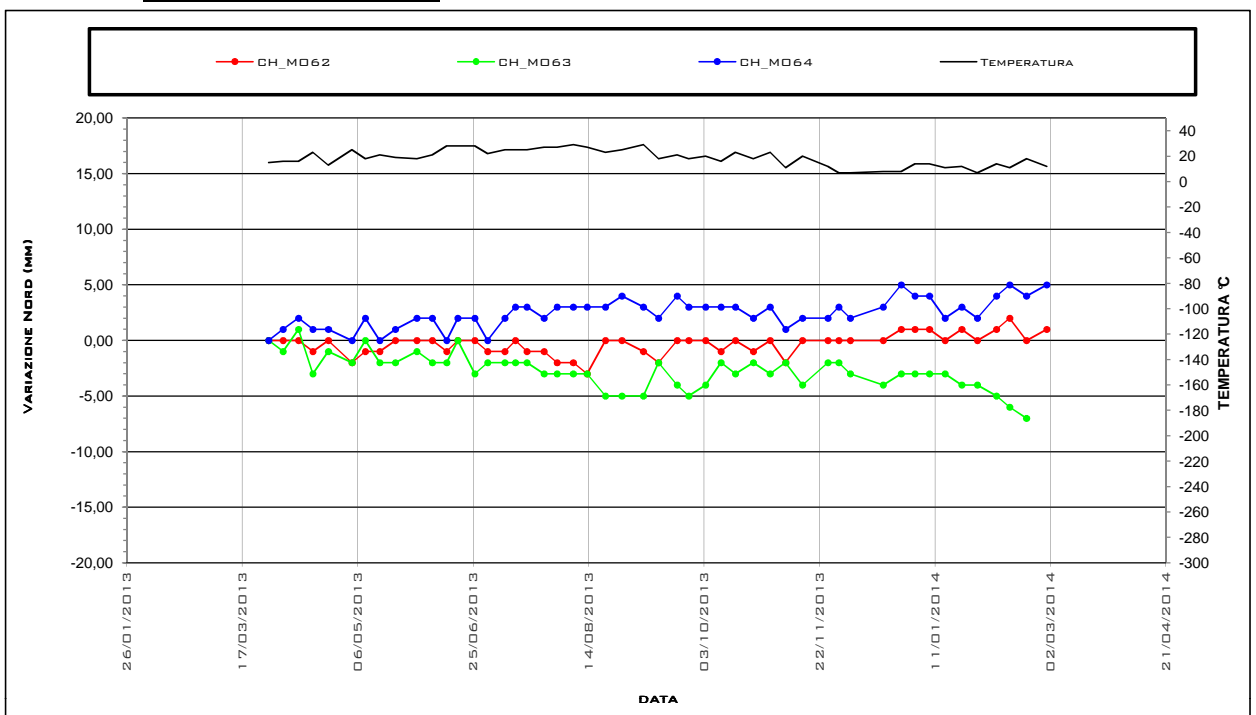
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 62-64  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 28/03/2013  
**Data lettura di zero** 28/03/2013



**GRAFICO EST**



**GRAFICO NORD**





**Ubicazione** STAZIONE CHIAIA

**Opera** \ \ Supplementari \ 65-66

**Tipo Strumento** Mire Ottiche

**Data posa in opera** 06/02/2014

**Data lettura di zero** 06/02/2014

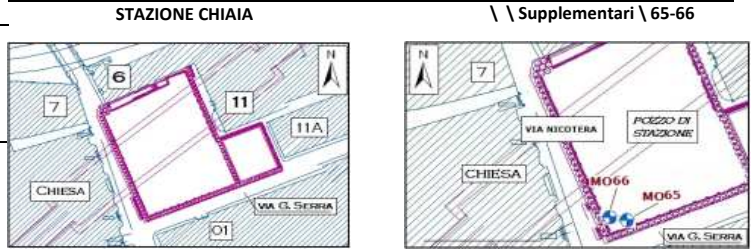
**Ultima** 4 **in**  
**Misura** data 28/02/2014

Lett. n°	DATA	CH_M065					CH_M066				
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1	06/02/2014 14.30	14,0	4,2	0,0	0,0	0,0	14,0	4,4	0,0	0,0	0,0
2	12/02/2014 08.30	11,0	4,2	-2,0	0,0	-1,0	11,0	4,4	-2,0	2,0	1,0
3	19/02/2014 14.30	18,0	4,2	-2,0	0,0	-1,0	18,0	4,4	-3,0	2,0	2,0
4	28/02/2014 08.30	12,0	4,2	-3,0	0,0	2,0	12,0	4,4	-3,0	1,0	2,0

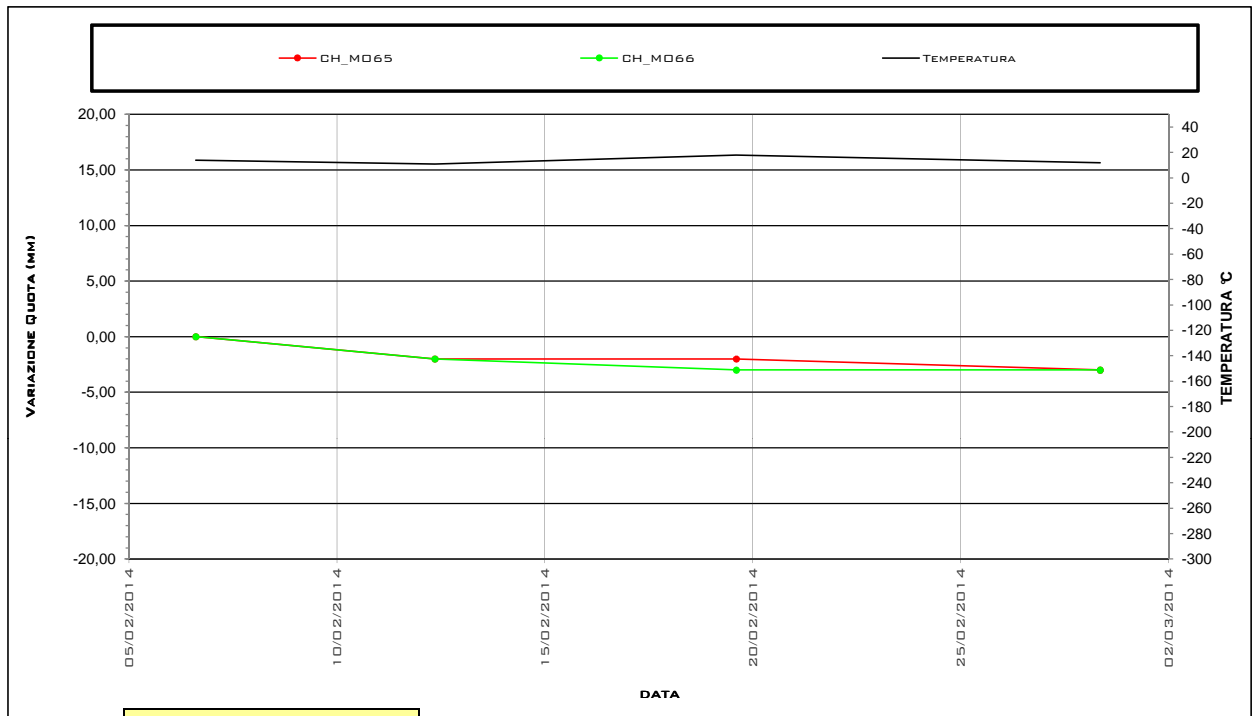


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 65-66  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 06/02/2014  
**Data lettura di zero** 06/02/2014

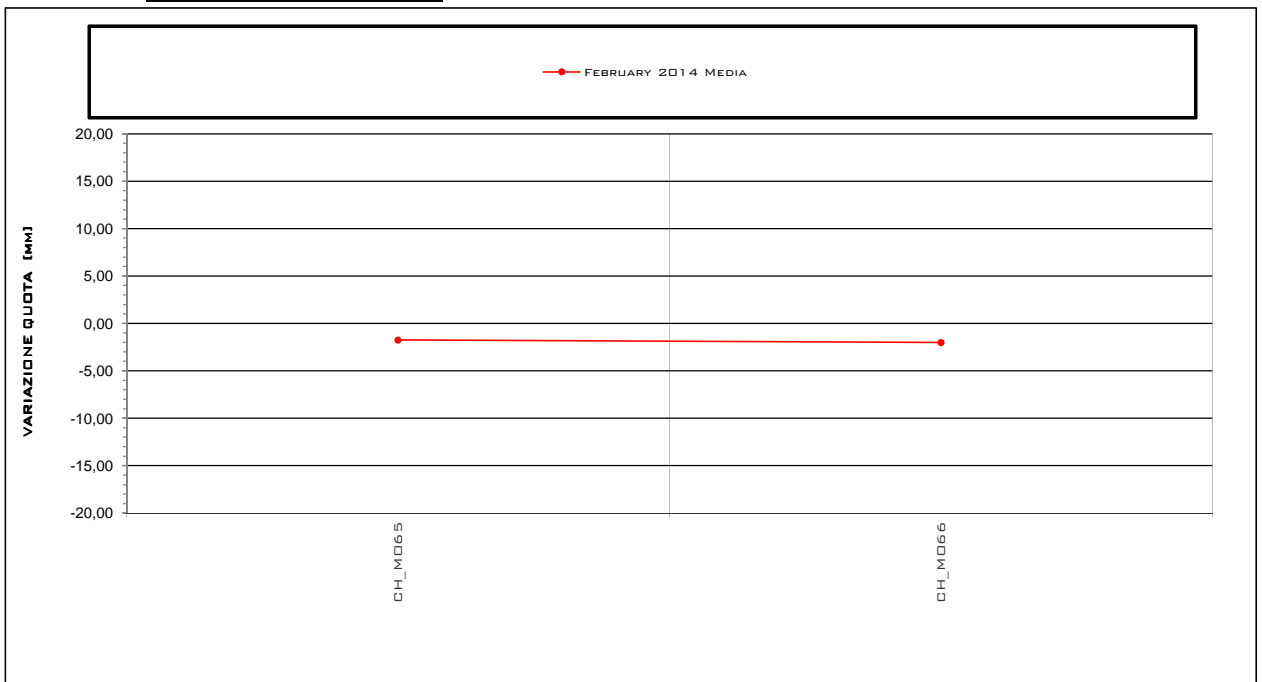
**UBICAZIONE**



**GRAFICO QUOTA**



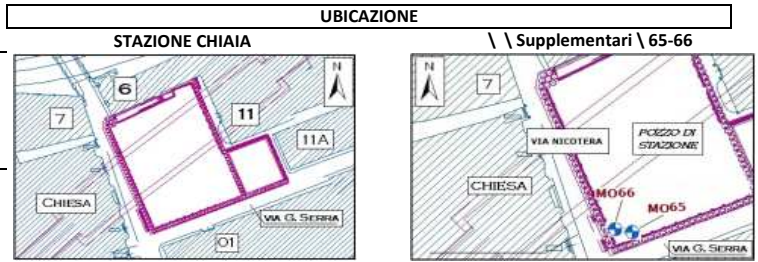
**GRAFICO ISOCRONE**



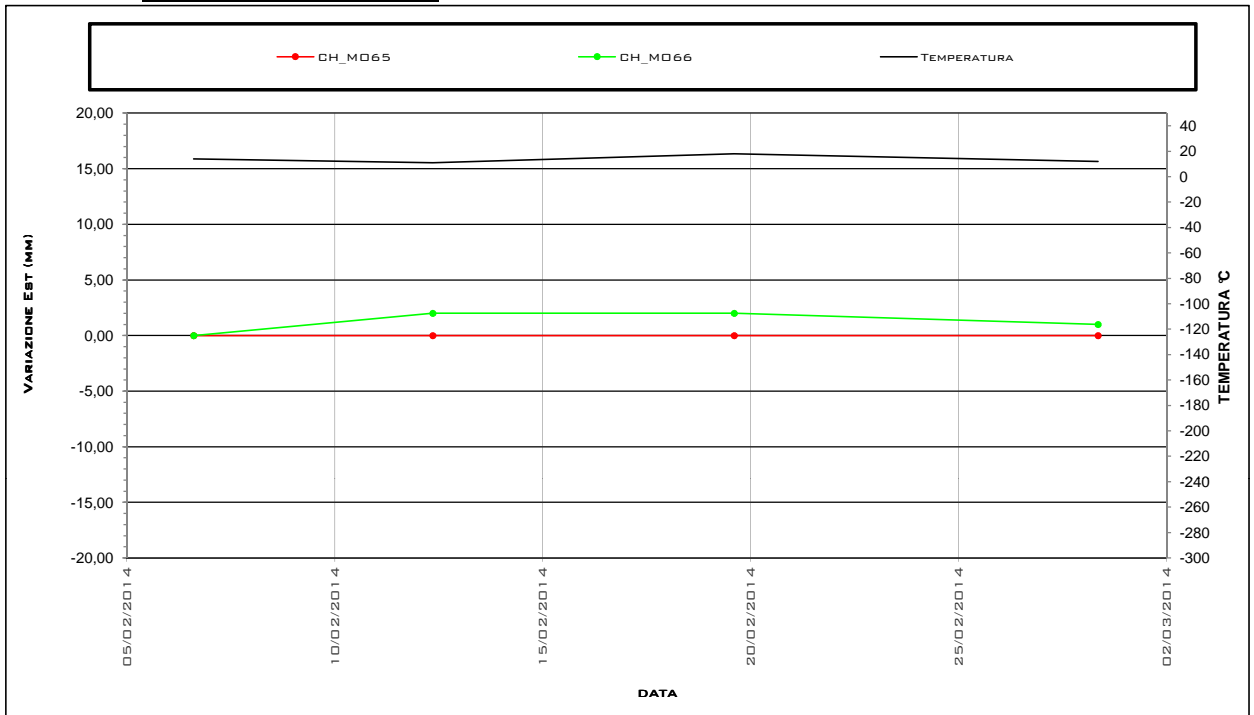




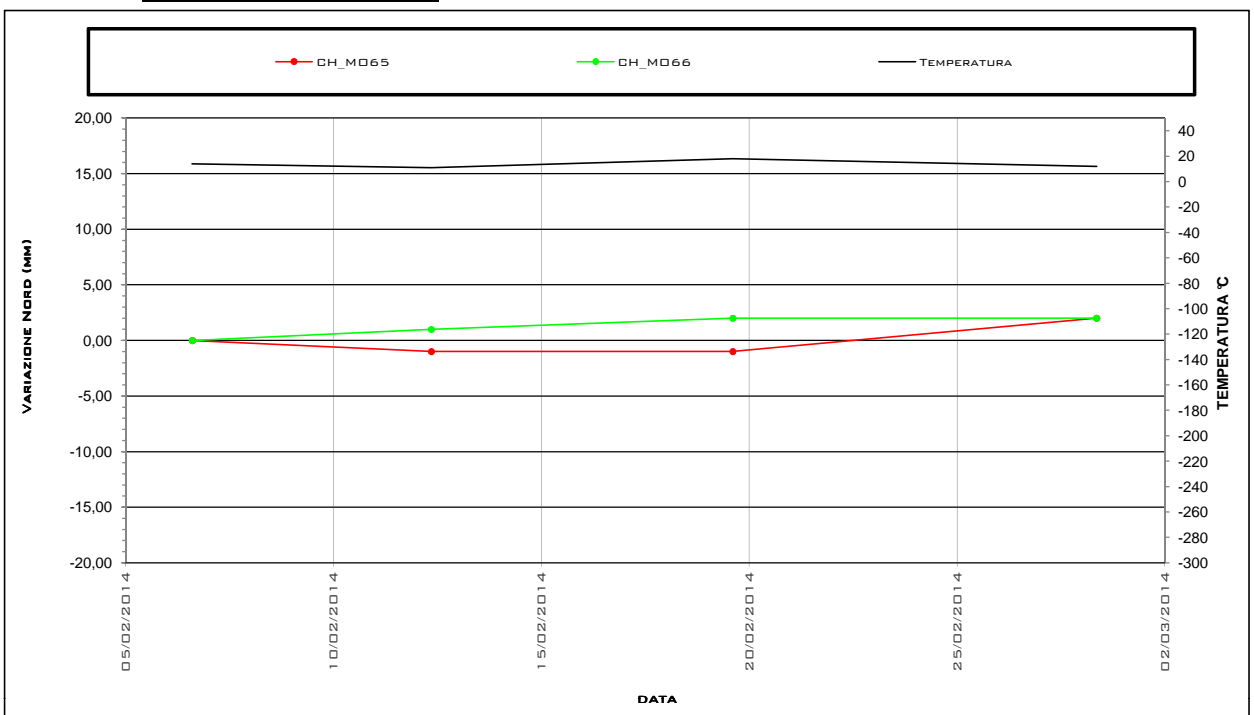
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 65-66  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 06/02/2014  
**Data lettura di zero** 06/02/2014



**GRAFICO EST**



**GRAFICO NORD**





**Ubicazione** STAZIONE CHIAIA

**Opera** \ \ Supplementari \ 67-70

**Tipo Strumento** Mire Ottiche

**Data posa in opera** 06/02/2014

**Data lettura di zero** 06/02/2014

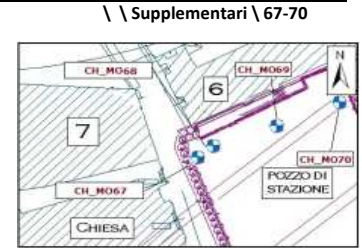
**Ultima Misura** 4 **in data** 28/02/2014

Lett. n°	DATA	CH_M067					CH_M068					CH_M069					CH_M070				
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1	06/02/2014 14.30	14,0	2,6	0,0	0,0	0,0	14,0	2,6	0,0	0,0	0,0	14,0	2,6	0,0	0,0	0,0	14,0	2,4	0,0	0,0	0,0
2	12/02/2014 08.30	11,0	2,6	-1,0	1,0	1,0	11,0	2,6	0,0	1,0	1,0	11,0	2,6	-1,0	1,0	0,0	11,0	2,4	-2,0	0,0	1,0
3	19/02/2014 14.30	18,0	2,6	-2,0	1,0	0,0	18,0	2,6	-1,0	0,0	1,0	18,0	2,6	-2,0	1,0	1,0	18,0	2,4	-4,0	0,0	-1,0
4	28/02/2014 08.30	12,0	2,5	-3,0	2,0	0,0	12,0	2,6	-2,0	1,0	2,0	12,0	2,6	-3,0	0,0	0,0	12,0	2,4	-3,0	1,0	-2,0

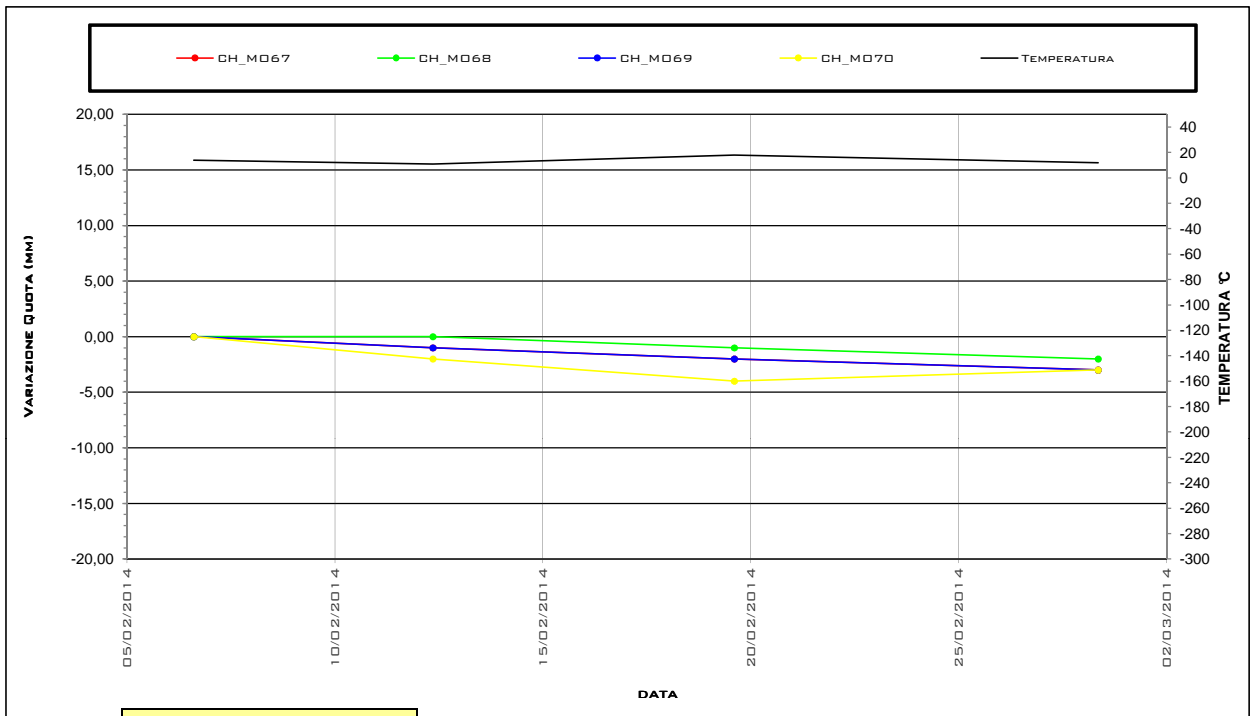


**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 67-70  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 06/02/2014  
**Data lettura di zero** 06/02/2014

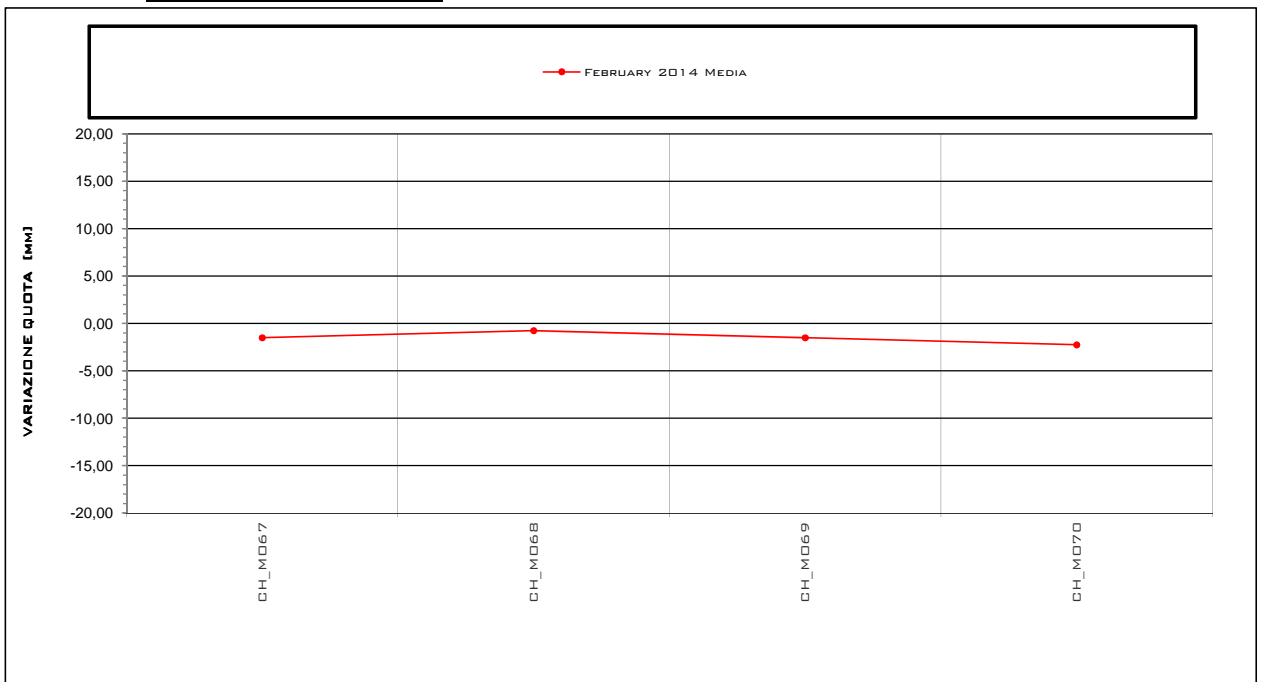
**UBICAZIONE**



**GRAFICO QUOTA**

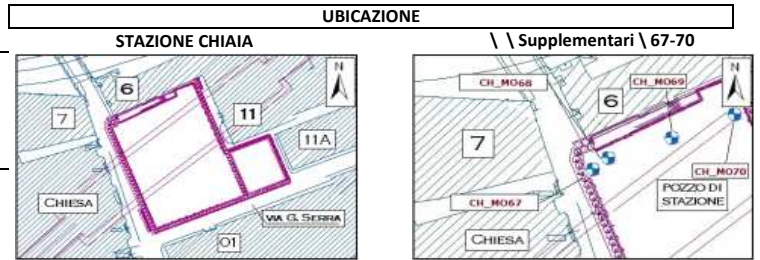


**GRAFICO ISOCRONE**

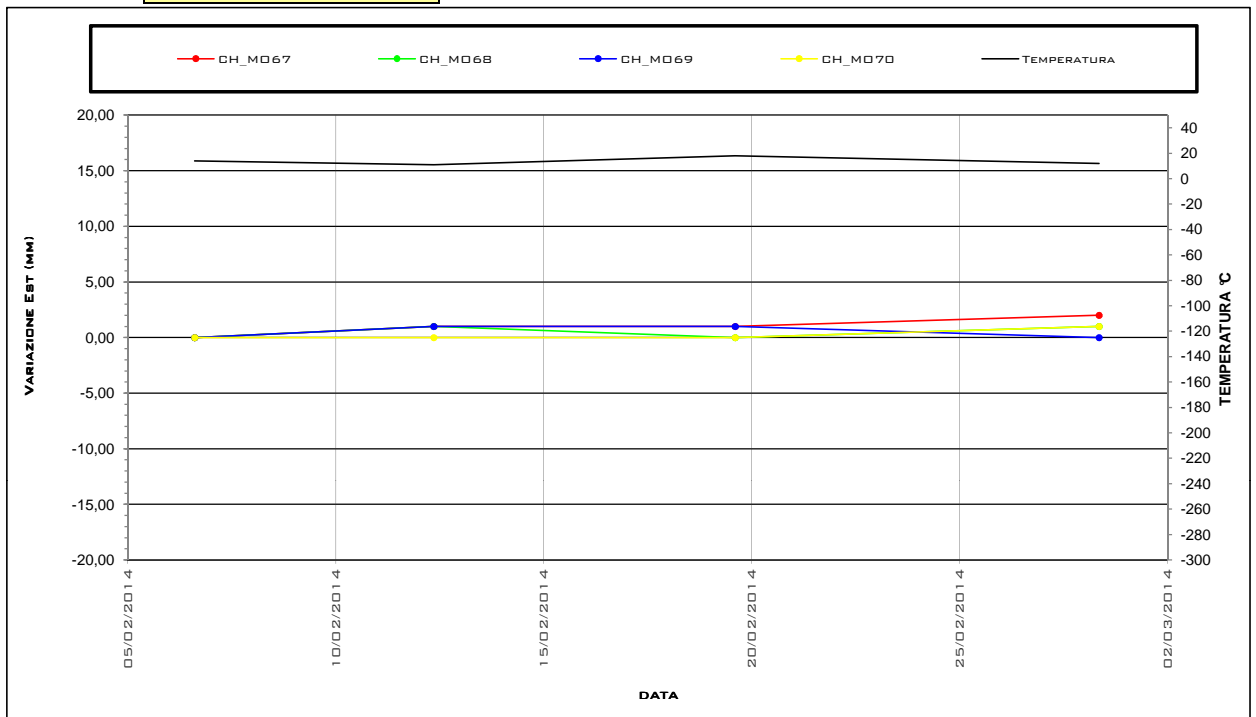




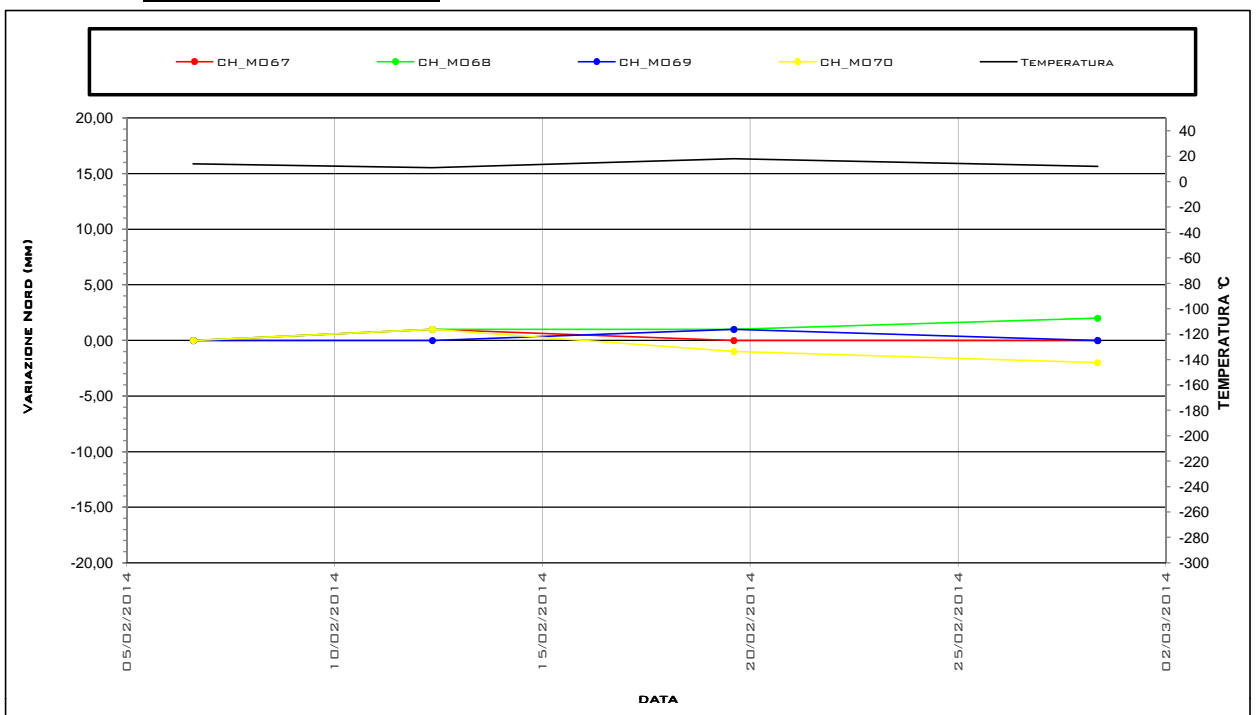
**Ubicazione** STAZIONE CHIAIA  
**Opera** \ \ Supplementari \ 67-70  
**Tipo Strumento** Mire Ottiche  
**Data posa in opera** 06/02/2014  
**Data lettura di zero** 06/02/2014



**GRAFICO EST**



**GRAFICO NORD**



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



ott-13

SAN PASQUALE

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












**LEGENDA**

	IN ROSSO STRUMENTO FUORI USO (per il quale è inutile programmare attività di manutenzione e monitoraggio)
	IN GIALLO STRUMENTO A FUNZIONALITA' RIDOTTA
	IN VERDE STRUMENTO SOSTITUITO
<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.

GL\_MA\_PZ1

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

Cantiere San Pasquale

SP\_PZ1\_P

SP\_PZ1\_S

Cantiere Arco Mirelli

AM\_PZ6\_S

AM\_PZ5\_S

Tratta Mergellina-Arco Mirelli

GL\_MA\_PZ4