

LINEA 6 – METROPOLITANA DI NAPOLI

				(PRIMA EMISSIONE) – DICEMBRE 2015 – GENNAIO 2016	DIC 15- GEN 16											
Albinati	De Risi	Manferlotti	Di Luccio													
REDATTO	CONTROLLATO	APPROVATO	AUTORIZZATO	DESCRIZIONE REVISIONE DOCUMENTO	DATA	REV										
 Ansaldo STS A Finmeccanica Company CONCESSIONARIA				 COMUNE DI NAPOLI CONCEDENTE		PROG IMP NUMERO										
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						CODICE PRODOTTO				AREA		TIPO		FASE		
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TITOLO DOCUMENTO: LINEA 6 METROPOLITANA DI NAPOLI PROGETTO ESECUTIVO OPERE CIVILI – MONITORAGGIO GEOTECNICO GEOREFERENZIATO REPORT DELLE MISURE (INTERNO) – STAZIONE CHIAIA																
EMITTENTE  METROPOLITANA DI NAPOLI S.p.A. RESPONSABILE PROGETTAZIONE OPERE CIVILI				A.T.I. LM6				CODICE ENTE 								
								FORMATO A4		SCALA /		FOGLIO 1 DI 107				
 tre esse ENGINEERING				Monitoraggio delle gallerie e prove di laboratorio per la qualifica dei materiali e loro controllo Monitoraggio opere civili e monitoraggio ambientale												

A termini di legge è rigorosamente vietato riprodurre e comunicare a terzi il contenuto del presente documento

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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:

- Inclinometri, 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.

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°74 Mire Ottiche

Primo Ordine

CH_MO1-16

Secondo Ordine

CH_MO17-32

Terzo Ordine

CH_MO33-40

Quarto Ordine

CH_MO36-44

Supplementari

CH_MO45-74

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4. PLANIMETRIA STRUMENTAZIONE MONITORAGGIO

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



STAZIONE CHIAIA

strumentazione di monitoraggio interna

Per la nomenclatura completa delle barrette sui puntori bisogna aggiungere la sigla "CH"

Legenda

- (CS) Capitalsidi
- (STL) Stelle livellometriche
- (MO) Mira Ottica
- (PZ) Piezometri casagrande
- (PZ) Piezometri tubo aperto
- (EI) Estenso-inclinometri
- (IN) Inclinometri
- Barrette Estensimetriche nei soai
- Palo/Pannello strumentato con inclinometro
- Palo/Pannello strumentato con inclinometro e barrette estensimetriche
- Piezometro elettrico
- Pozzo demungimento

TRE ESSE PREESSE ENGINEERING rev. 12-03-14

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).

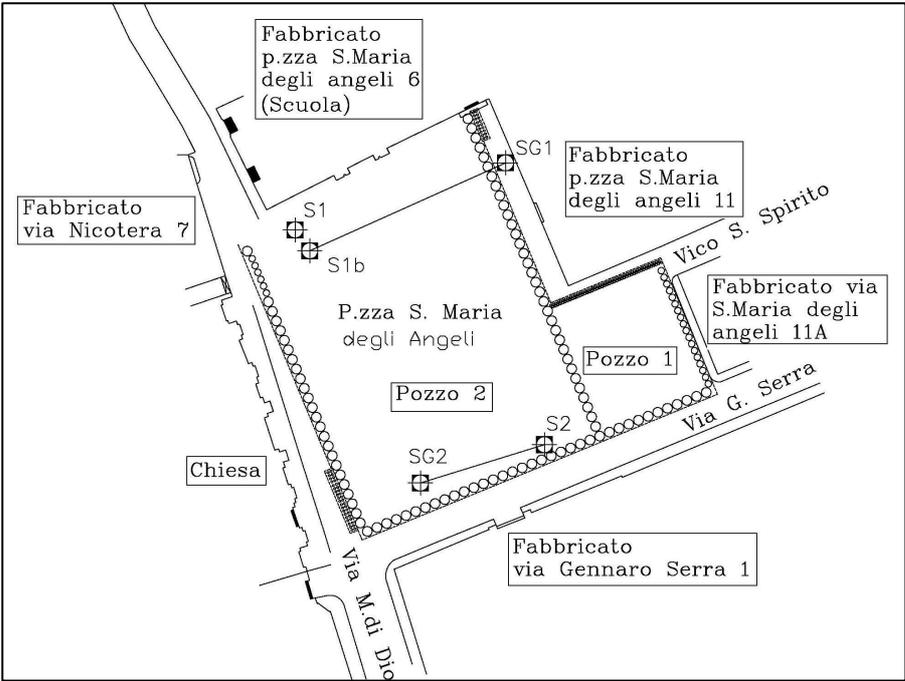


Figura 5.1.: Planimetria pozzo stazione, raffigurante la collocazione di alcuni sondaggi effettuati per la campagna propedeutica alla stesura del Progetto Definitivo (2005).

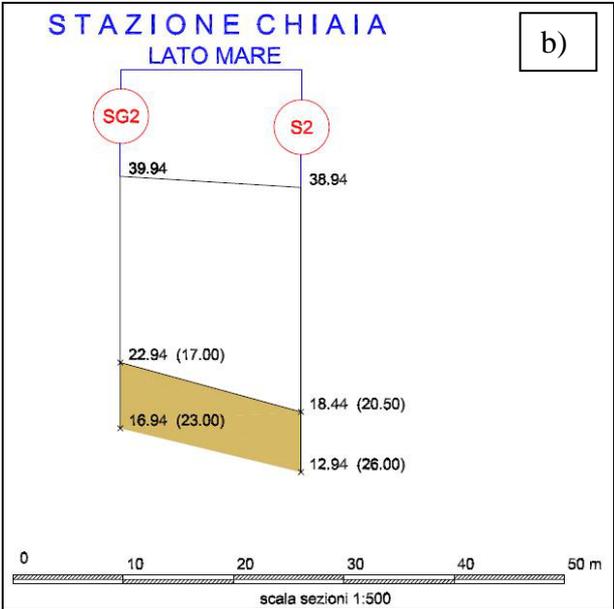
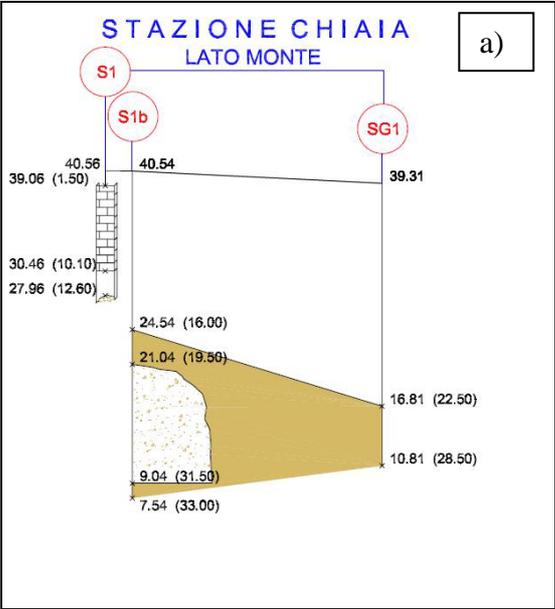


Figura 5.2a e5.2b.: Andamento del tetto del Tufo (lato monte e lato mare) - Stralcio da Elaborato grafico Progetto Definitivo Stazione Chiaia allegato alla Relazione Geologica (cod. doc.: LM67F2C0159 – ANNO 2005).

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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 delle strutture interne come le pareti laterali e le opere di impermeabilizzazione. Nella data del 27/03/15 sono stati inoltre chiusi i pozzi di emungimento. 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'

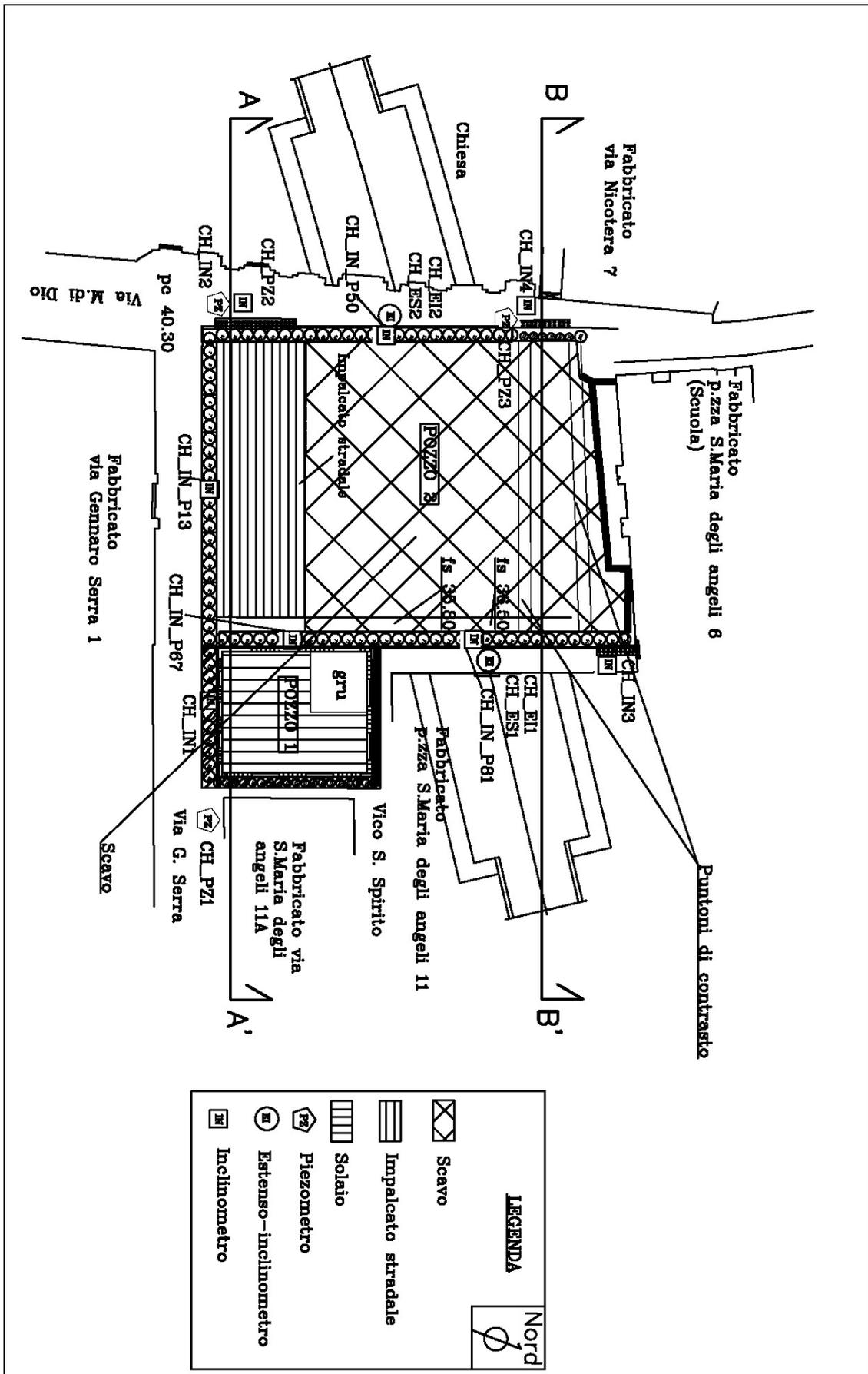


Figura 6.1.: Planimetria pozzo stazione, raffigurante la suddivisione in aree di lavoro.

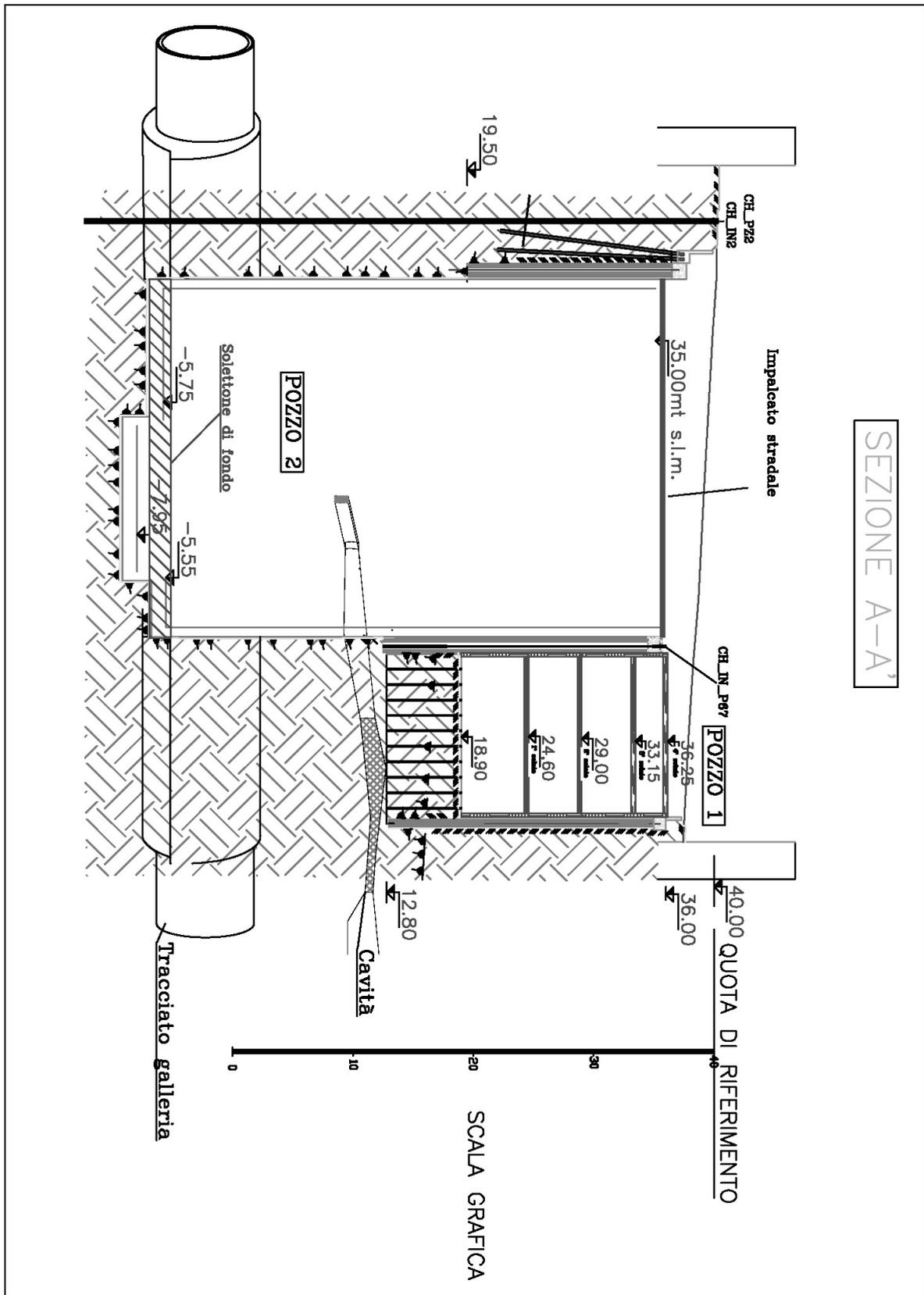


Figura 6.2.: Sezione A-A' pozzo stazione, raffigurante la suddivisione in aree di lavoro.

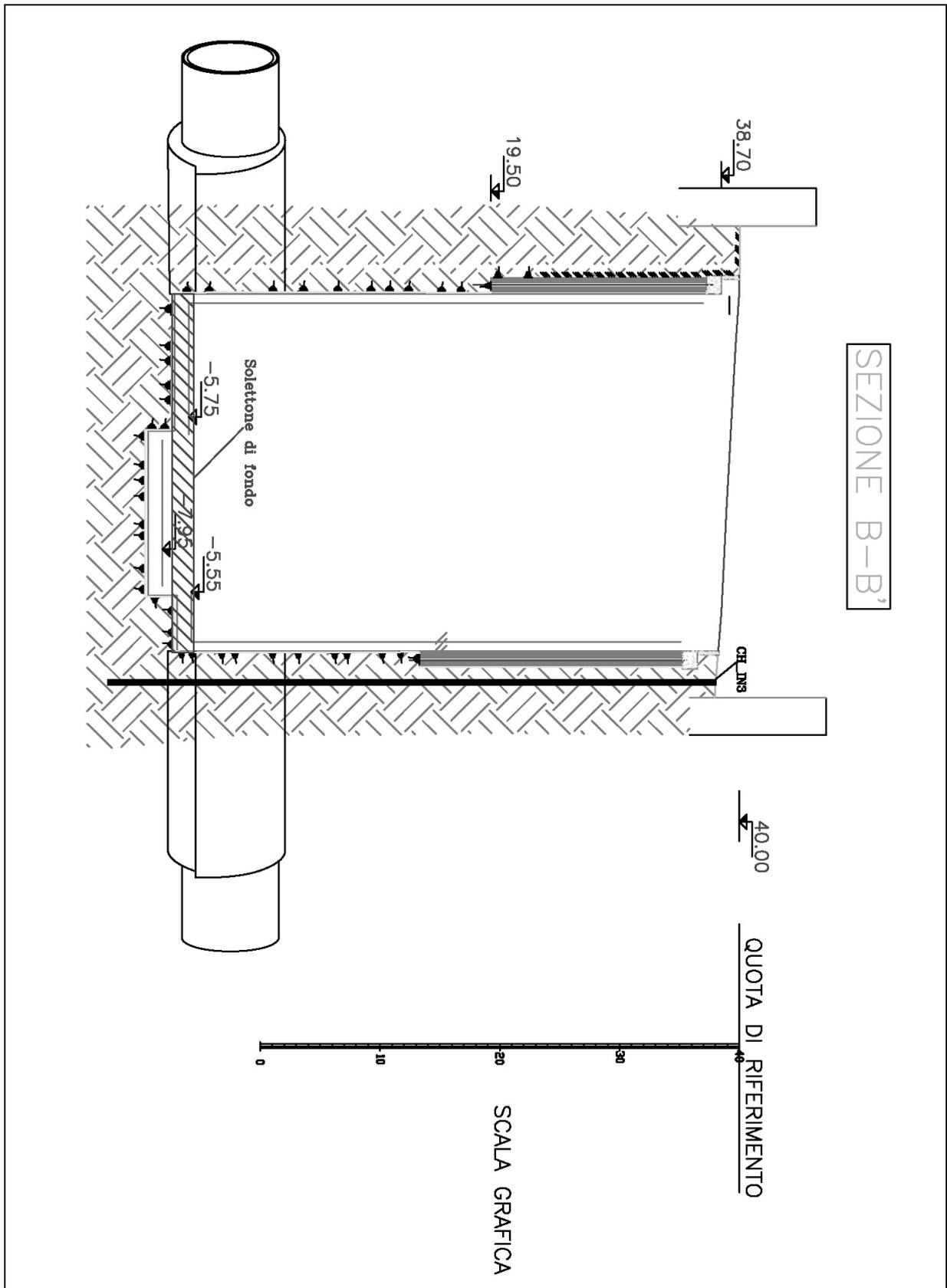


Figura 6.3.: Sezione B-B' pozzo stazione, raffigurante la suddivisione in aree di lavoro.

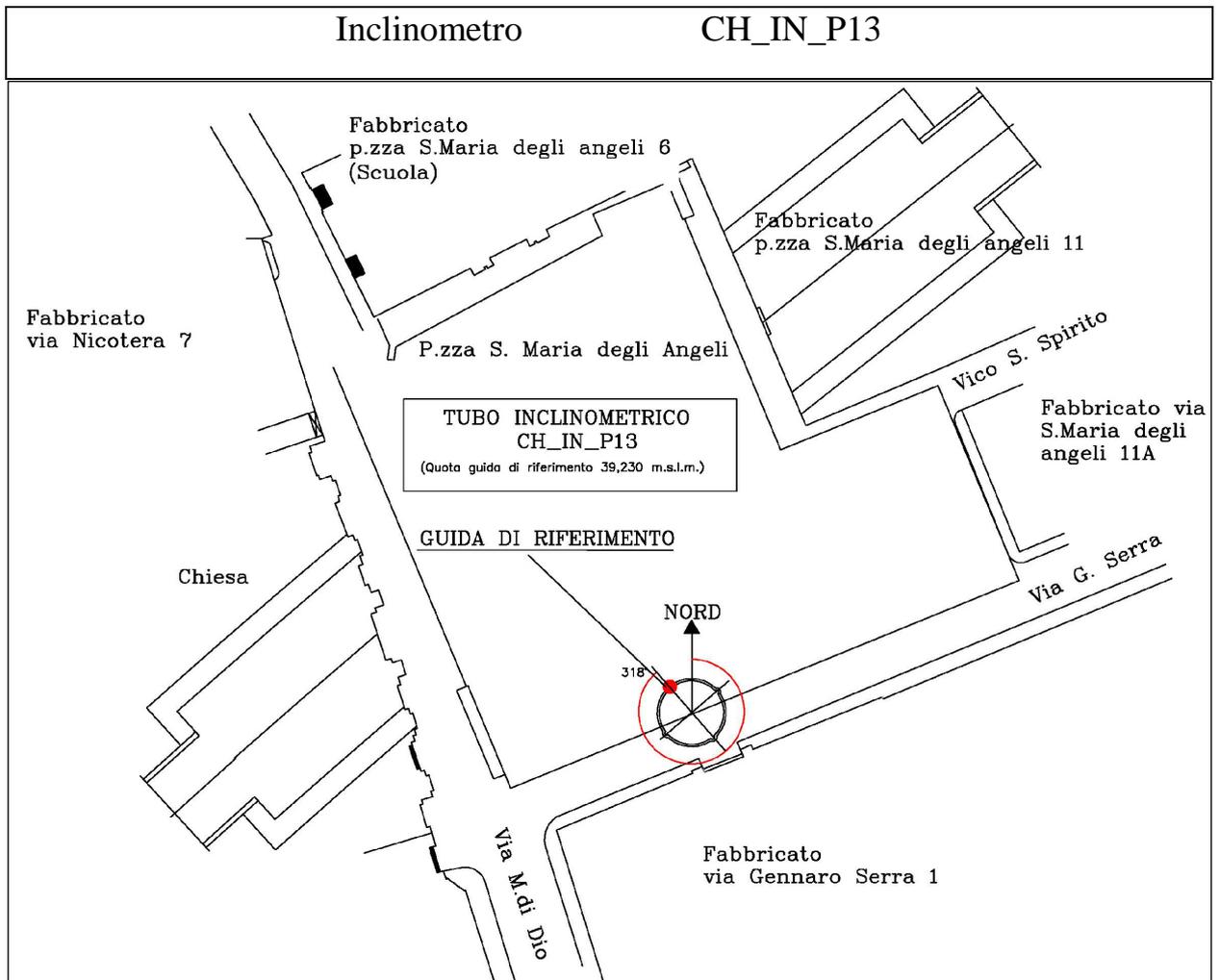
7. MISURE GEOTECNICHE – INCLINOMETRICHE

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			

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



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

NOTE

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 **115** in data **14/01/2016 10:35**

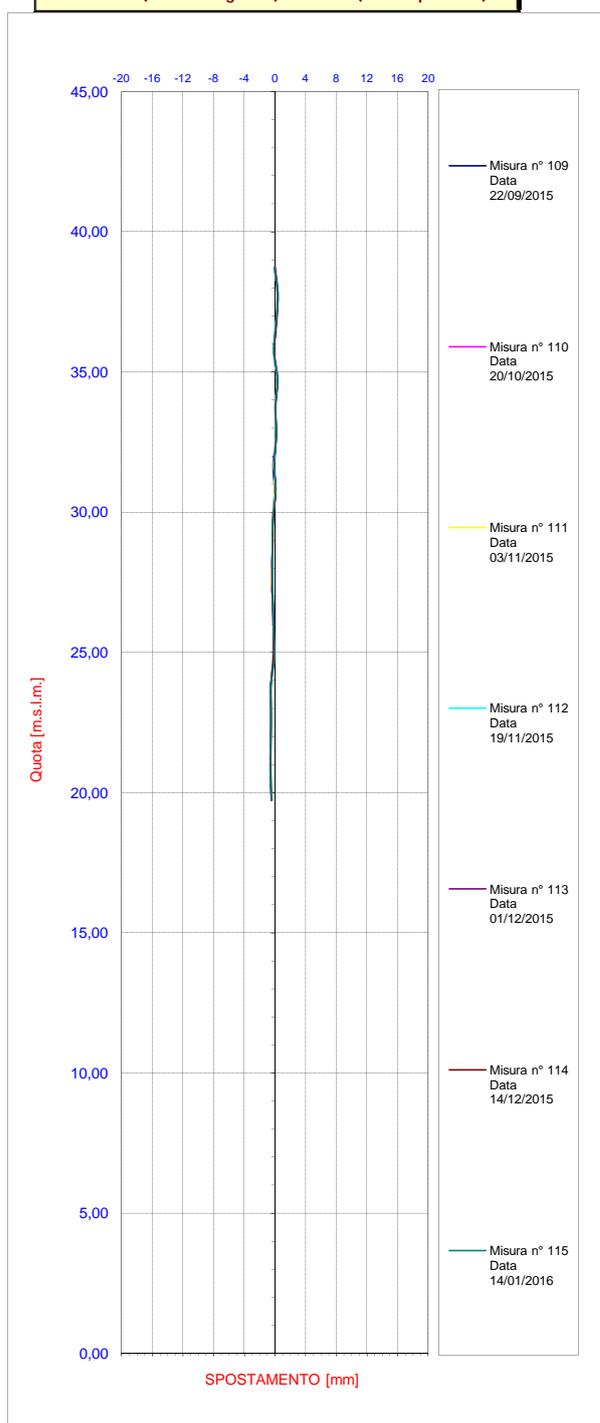
SPOSTAMENTI LOCALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
38,7	-0,092	0,211	0,231	336,414
37,7	0,377	0,246	0,450	56,900
36,7	0,100	-0,002	0,100	91,398
35,7	-0,159	0,143	0,214	311,827
34,7	0,309	0,429	0,529	35,759
33,7	0,035	0,085	0,092	22,182
32,7	0,172	-0,035	0,175	101,591
31,7	-0,114	-0,155	0,192	216,296
30,7	0,080	-0,120	0,144	146,505
29,7	-0,315	0,086	0,327	285,234
28,7	-0,333	0,370	0,498	317,997
27,7	-0,328	0,107	0,345	288,051
26,7	-0,259	0,293	0,391	318,494
25,7	-0,164	0,360	0,396	335,519
24,7	-0,102	0,631	0,639	350,834
23,7	-0,588	0,407	0,715	304,650
22,7	-0,512	0,500	0,716	314,277
21,7	-0,582	0,353	0,681	301,233
20,7	-0,600	0,481	0,769	308,691
19,7	-0,462	0,624	0,776	323,526

SPOSTAMENTI INTEGRALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
38,7	-3,539	5,013	6,136	324,774
37,7	-3,447	4,801	5,910	324,323
36,7	-3,824	4,555	5,948	319,987
35,7	-3,924	4,558	6,014	319,272
34,7	-3,765	4,415	5,802	319,546
33,7	-4,074	3,986	5,699	314,377
32,7	-4,108	3,901	5,665	313,516
31,7	-4,280	3,936	5,815	312,603
30,7	-4,166	4,091	5,839	314,475
29,7	-4,246	4,211	5,980	314,762
28,7	-3,931	4,125	5,698	316,383
27,7	-3,597	3,755	5,200	316,229
26,7	-3,270	3,648	4,899	318,133
25,7	-3,010	3,355	4,508	318,101
24,7	-2,846	2,995	4,132	316,459
23,7	-2,745	2,364	3,623	310,742
22,7	-2,156	1,958	2,912	312,235
21,7	-1,644	1,458	2,198	311,570
20,7	-1,062	1,105	1,532	316,144
19,7	-0,462	0,624	0,776	323,526

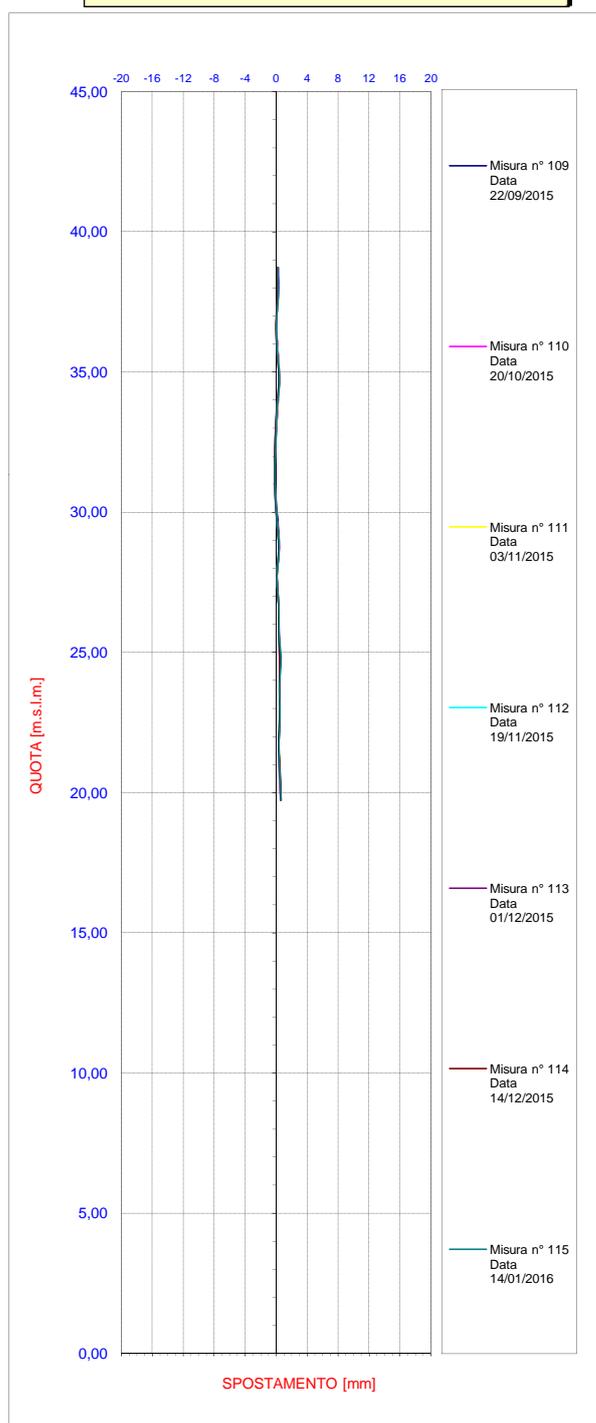
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P13**
 Azimut di riferimento **318**
 Quota guida rif. (m.s.l.m.) **39,23**
 Data lettura di zero **22/12/2010**
 Data posa in opera **06/12/2010**

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

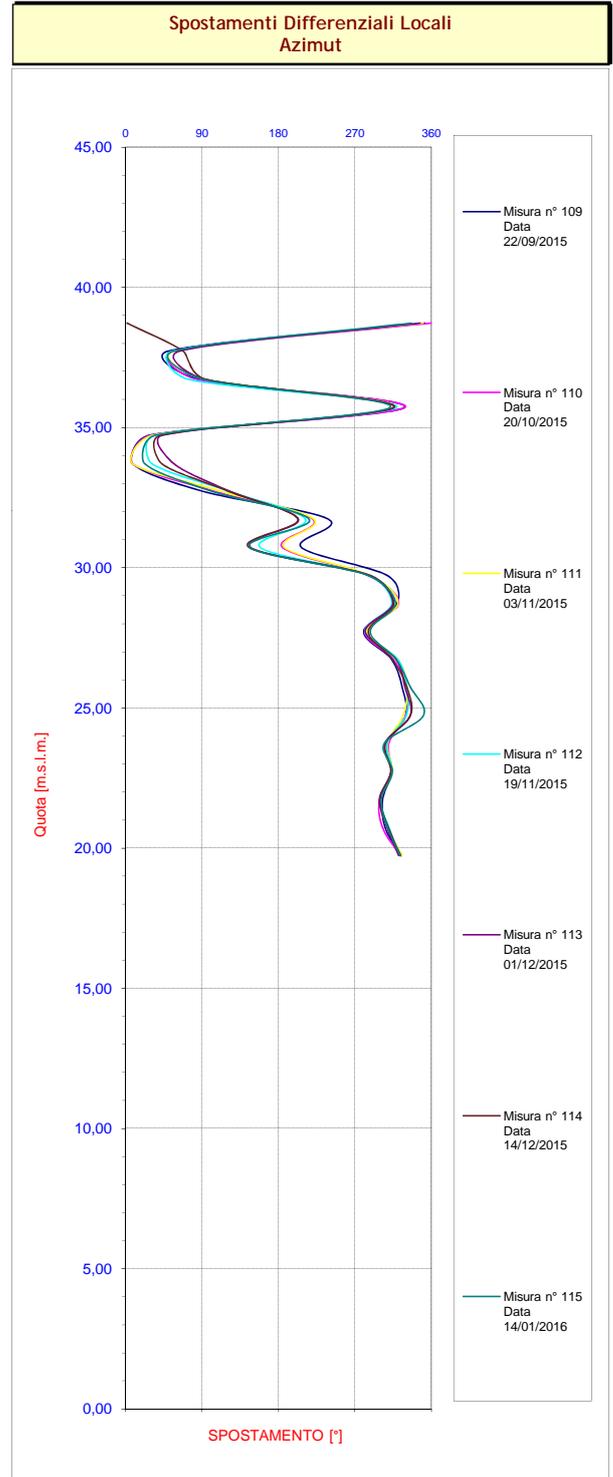
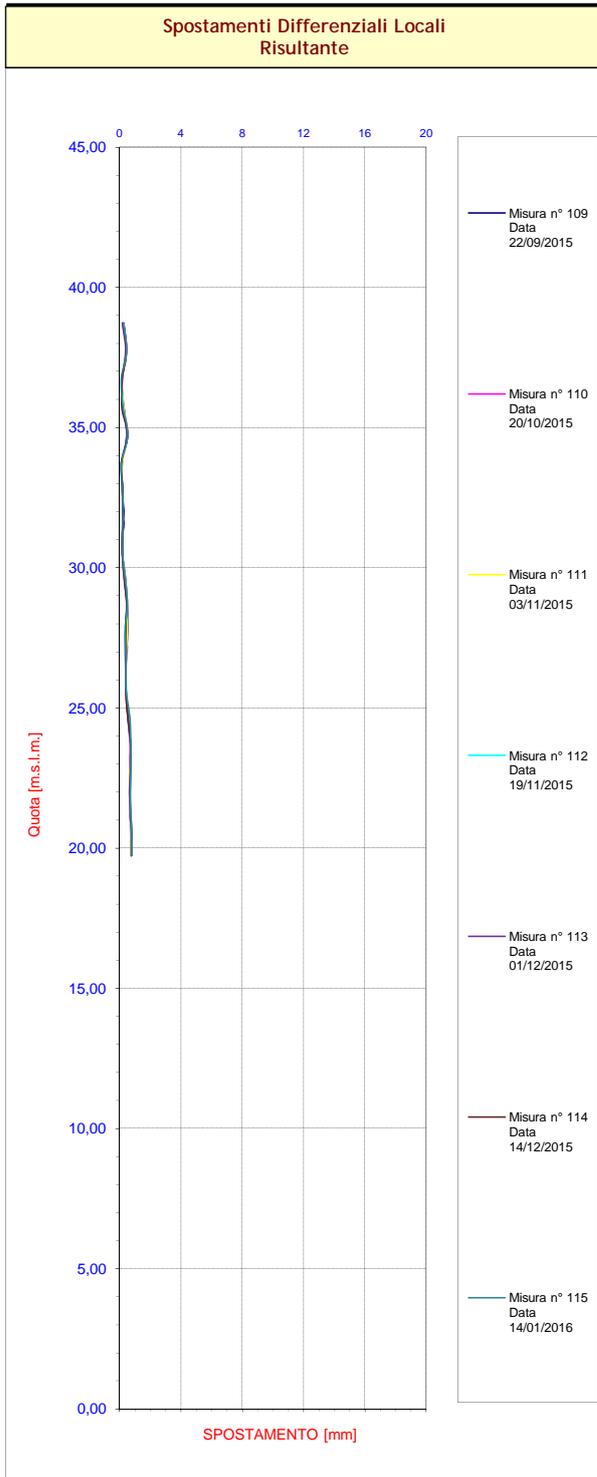


**Spostamenti Differenziali Locali
SUD - (valori negativi) / NORD + (valori positivi)**



Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_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**

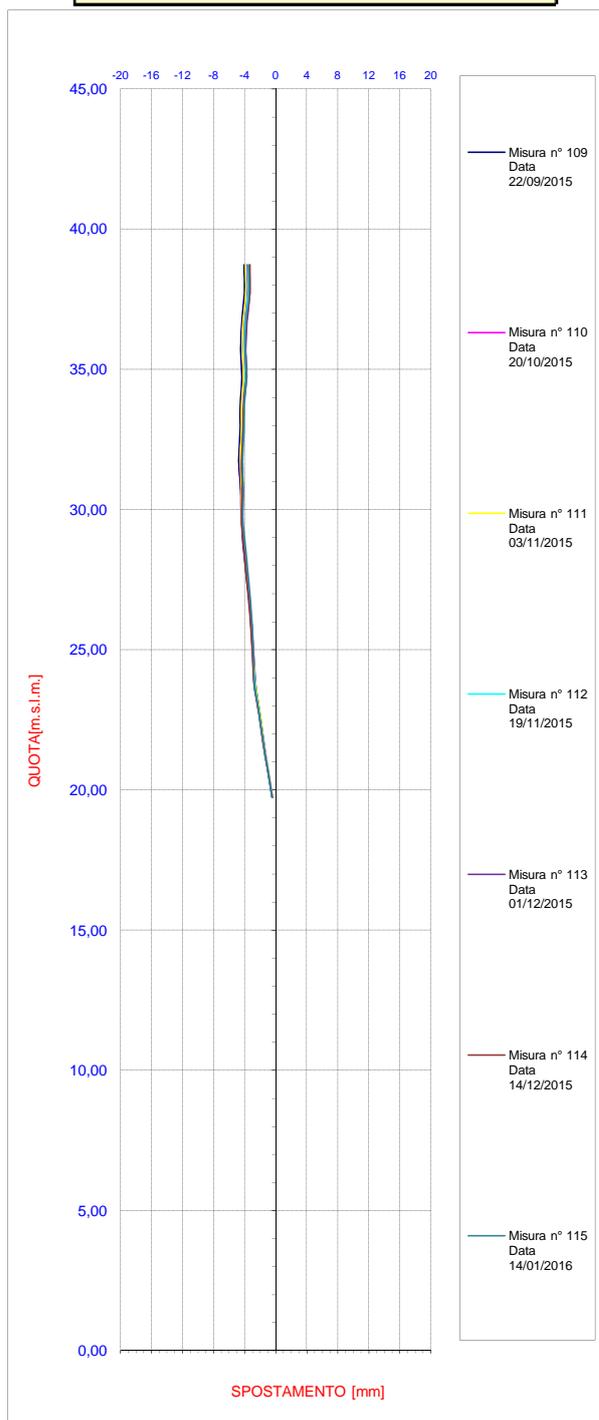
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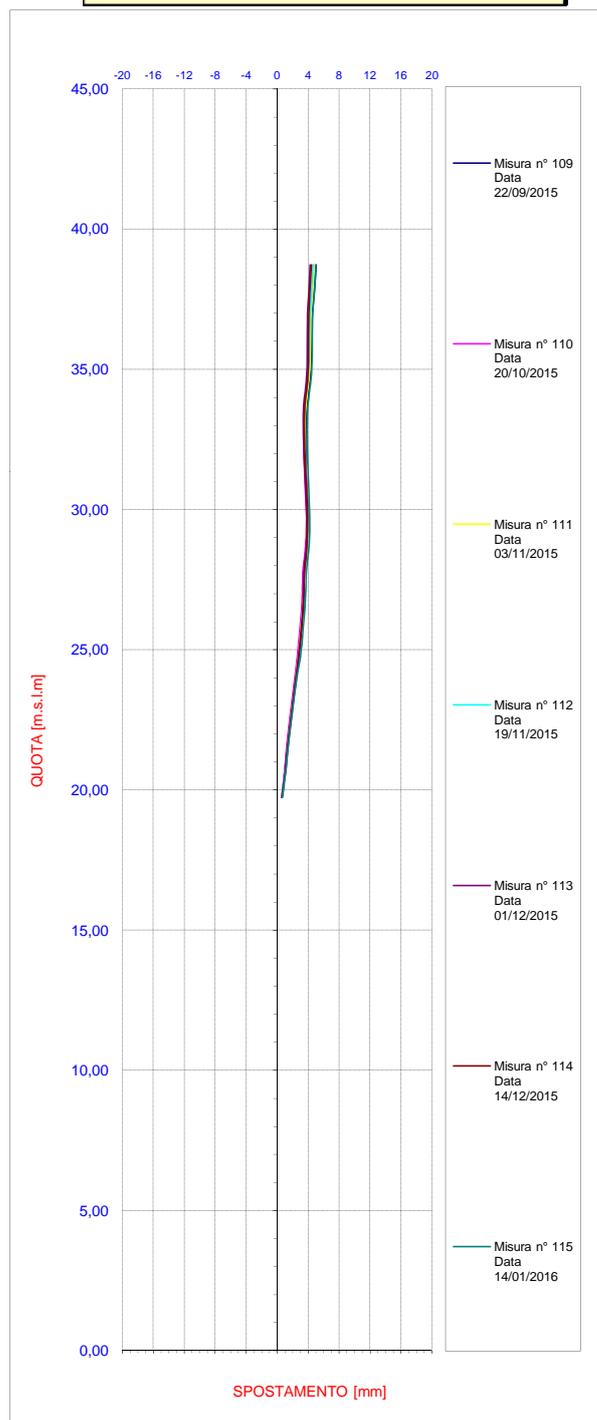
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P13**
 Azimut di riferimento **318**
 Quota guida rif. (m.s.l.m.) **39,23**
 Data lettura di zero **22/12/2010**
 Data posa in opera **06/12/2010**

Ultima Misura **115** in data **14/01/2016 10:35**

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



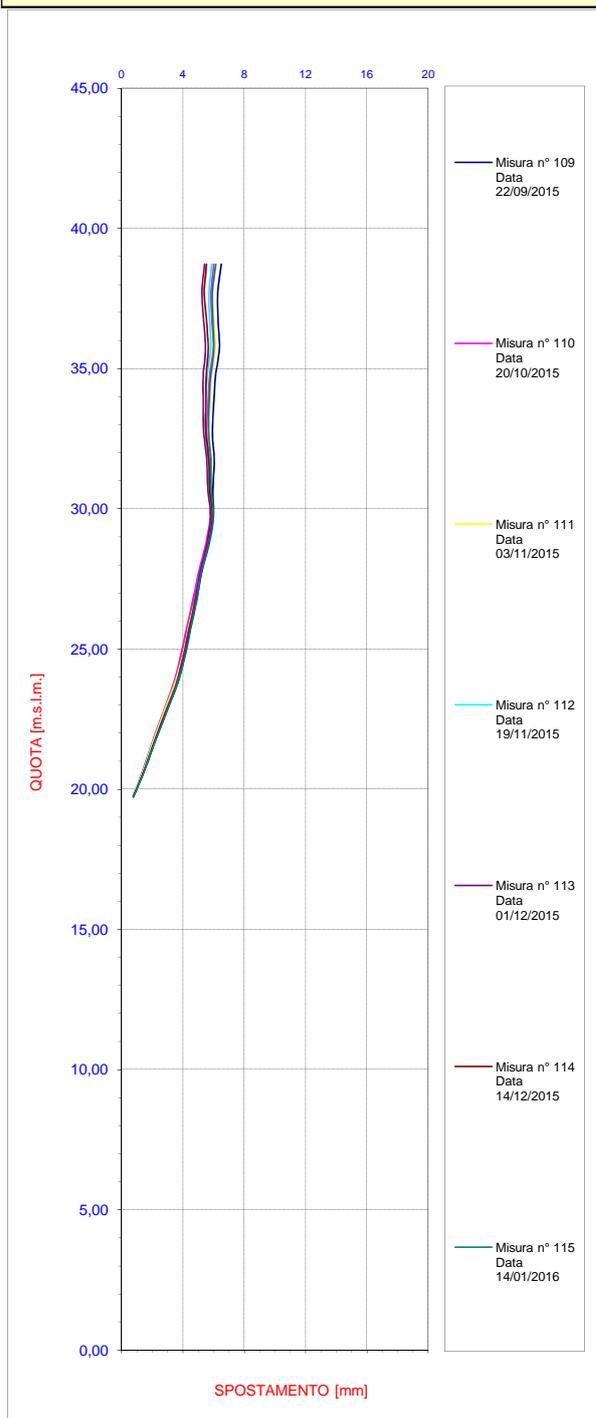
Spostamenti Differenziali Integrali
SUD - (valori negativi) / NORD + (valori positivi)



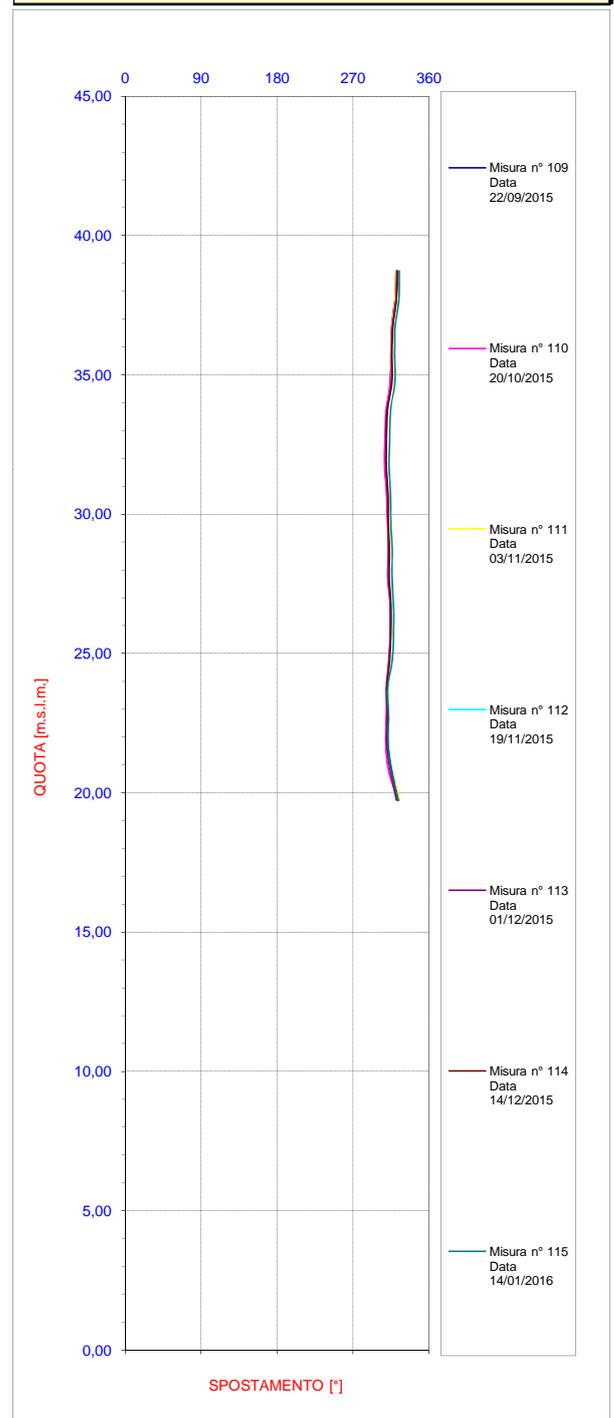
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P13**
 Azimut di riferimento **318**
 Quota guida rif. (m.s.l.m.) **39,23**
 Data lettura di zero **22/12/2010**
 Data posa in opera **06/12/2010**

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Spostamenti Differenziali Integrali Risultante



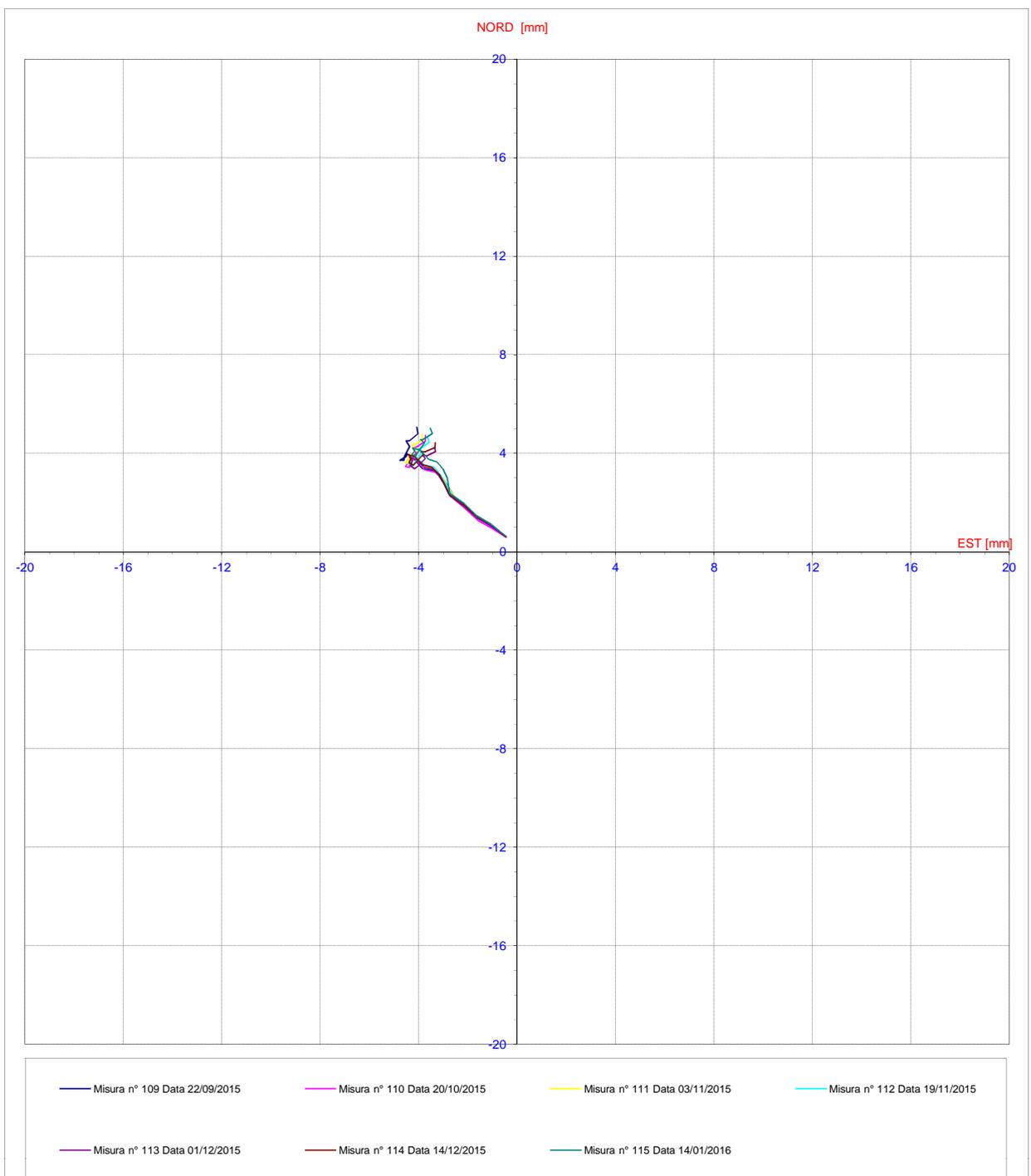
Spostamenti Differenziali Integrali Azimut



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

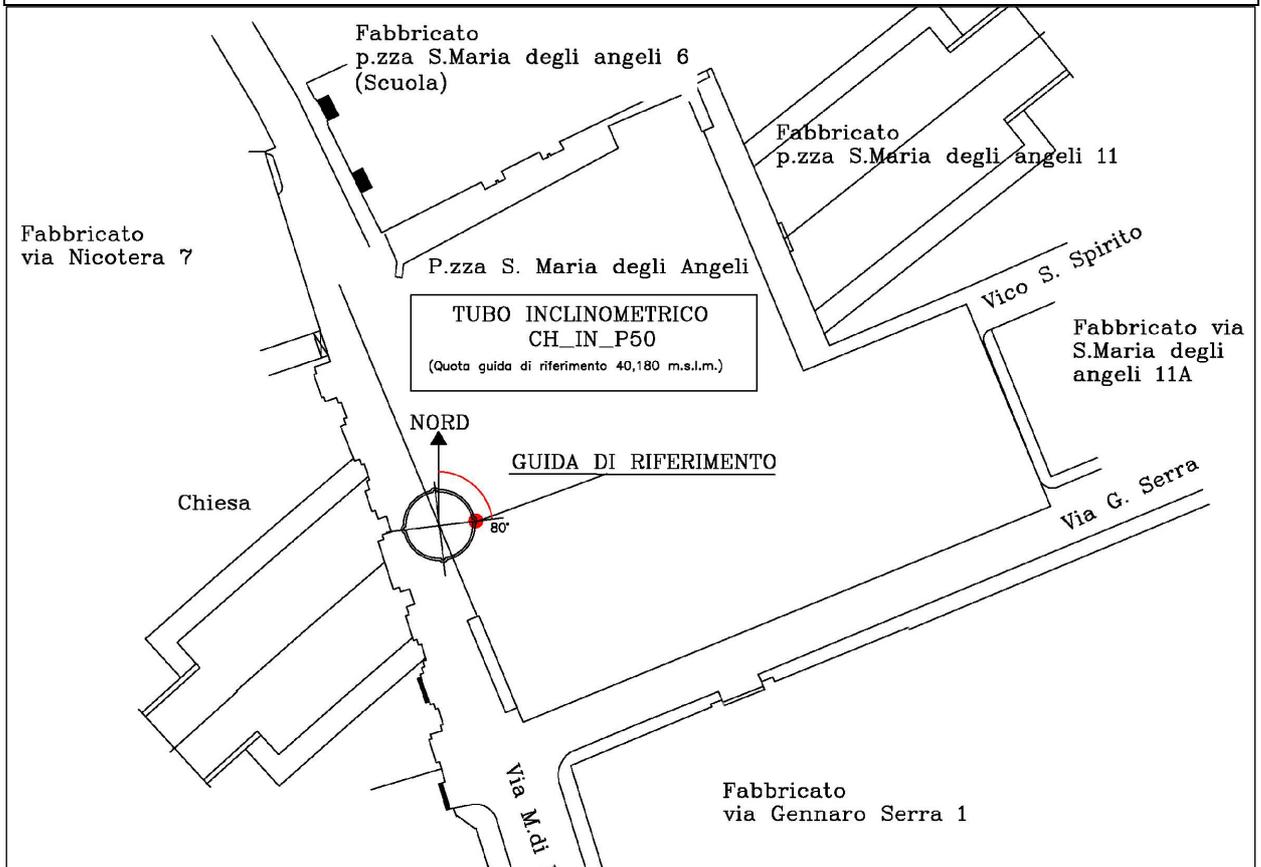
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Spostamenti Differenziali Integrali
Diagramma polare



Inclinometro

CH_IN_P50



Affidabilità strumentale
A.T.I. LM6 – TreEsse

buono
da rivedere
da scartare

X

Congruenza progettuale
C.T. ATILM6 – C.T. Monitoraggio

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

NOTE

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

Misura **120** in data **14/01/2016 12:15**

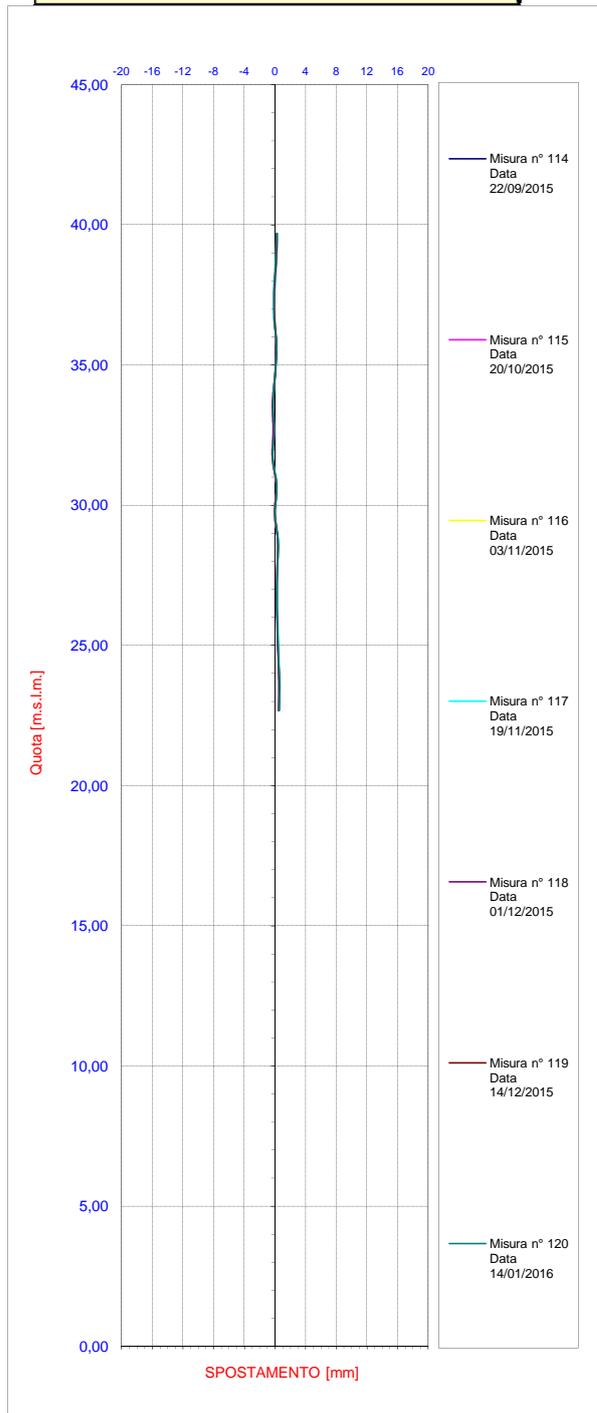
SPOSTAMENTI LOCALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
39,7	0,201	-0,449	0,492	155,938
38,7	0,050	-0,553	0,555	174,796
37,7	-0,149	-0,300	0,335	206,431
36,7	-0,152	-0,422	0,449	199,844
35,7	0,190	-0,305	0,360	148,062
34,7	0,003	-0,357	0,357	179,583
33,7	-0,265	-0,273	0,381	224,106
32,7	-0,081	0,032	0,087	291,705
31,7	-0,288	-0,187	0,343	237,052
30,7	0,199	-0,109	0,226	118,682
29,7	-0,002	-0,066	0,066	181,555
28,7	0,386	0,004	0,386	89,346
27,7	0,273	0,095	0,289	70,728
26,7	0,234	-0,260	0,350	137,996
25,7	0,327	-0,159	0,363	115,904
24,7	0,434	-0,281	0,516	122,912
23,7	0,611	-0,069	0,615	96,479
22,7	0,537	-0,143	0,556	104,882

SPOSTAMENTI INTEGRALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
39,7	2,506	-3,801	4,553	146,599
38,7	2,306	-3,351	4,068	145,474
37,7	2,255	-2,799	3,594	141,136
36,7	2,404	-2,499	3,468	136,108
35,7	2,557	-2,077	3,294	129,084
34,7	2,366	-1,771	2,956	126,815
33,7	2,364	-1,414	2,754	120,891
32,7	2,629	-1,141	2,866	113,456
31,7	2,709	-1,173	2,952	113,405
30,7	2,997	-0,986	3,155	108,206
29,7	2,799	-0,877	2,933	107,402
28,7	2,801	-0,811	2,916	106,156
27,7	2,415	-0,816	2,549	108,664
26,7	2,142	-0,911	2,328	113,046
25,7	1,908	-0,651	2,016	108,849
24,7	1,581	-0,493	1,656	107,305
23,7	1,147	-0,212	1,167	100,468
22,7	0,537	-0,143	0,556	104,882

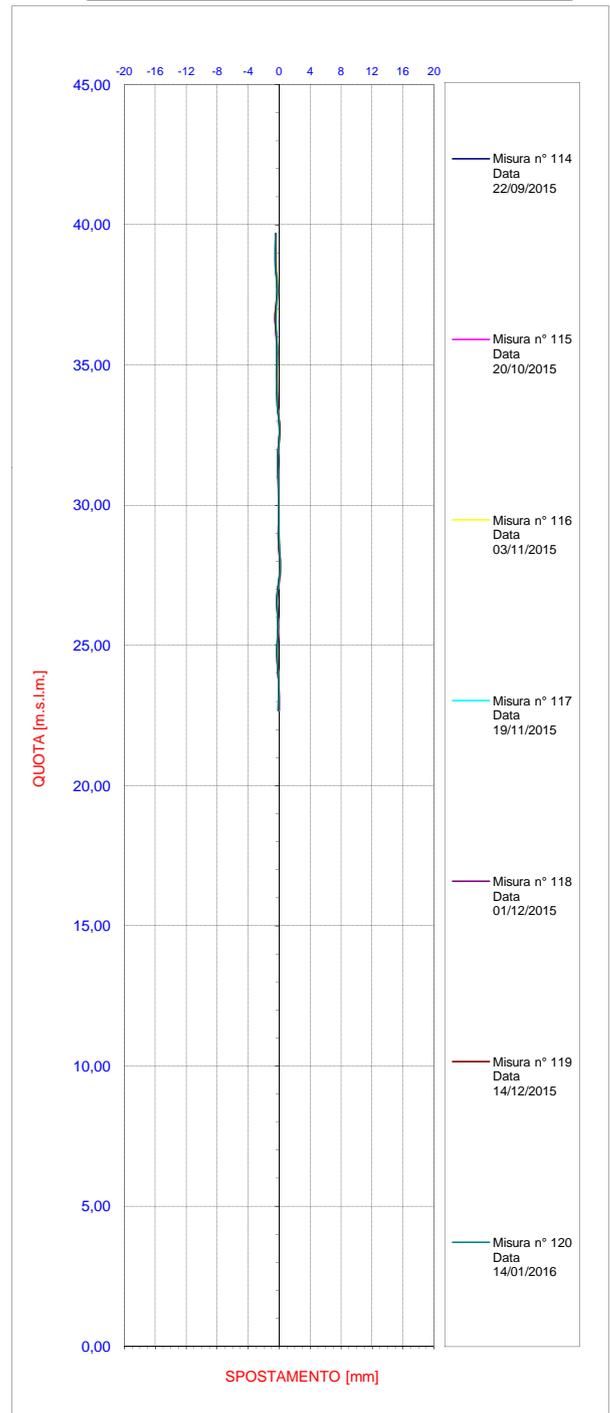
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P50**
 Azimut di riferimento **80**
 Quota guida rif. (m.s.l.m.) **40,18**
 Data lettura di zero **21/01/2011**
 Data posa in opera **21/12/2010**

Ultima Misura **120** in data **14/01/2016 12:15**

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

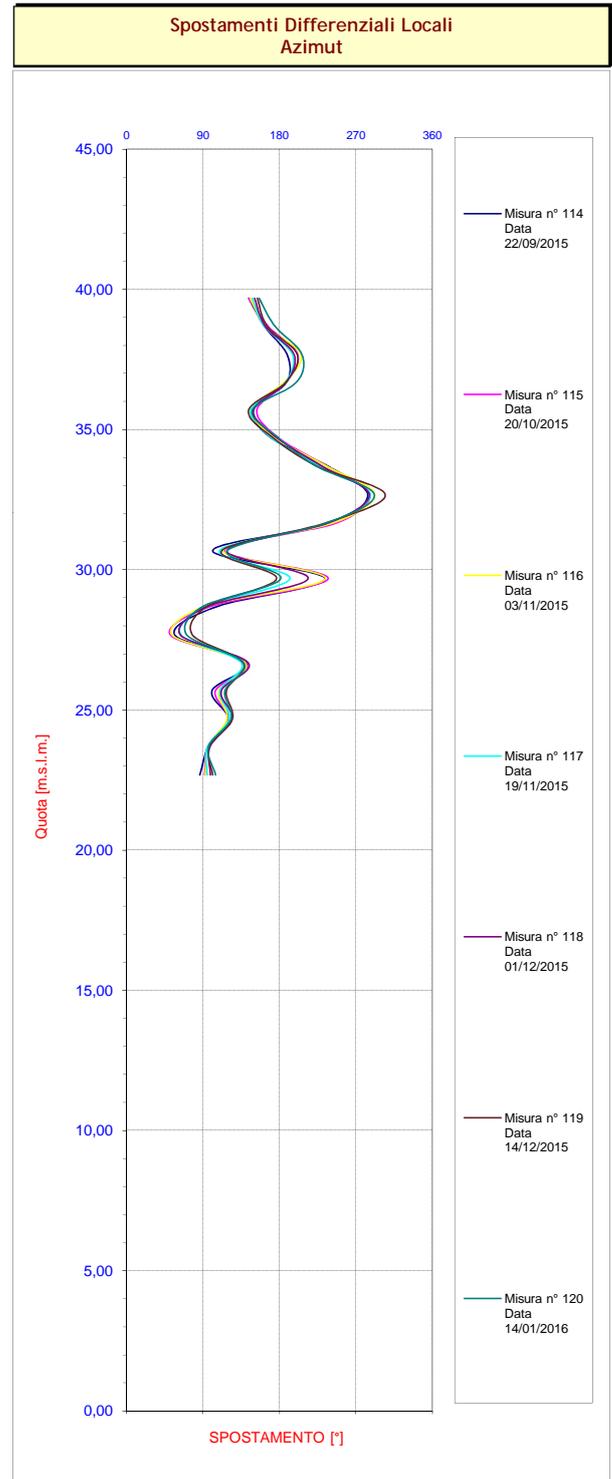
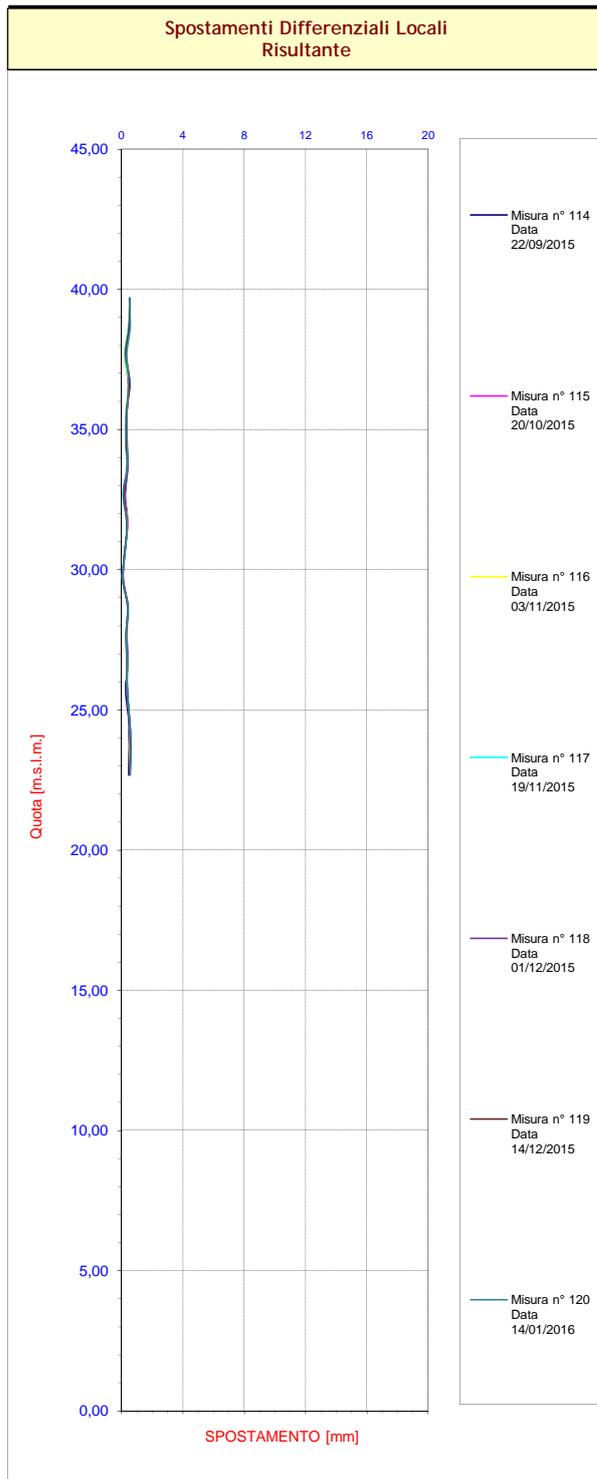


Spostamenti Differenziali Locali
SUD - (valori negativi) / NORD + (valori positivi)



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**

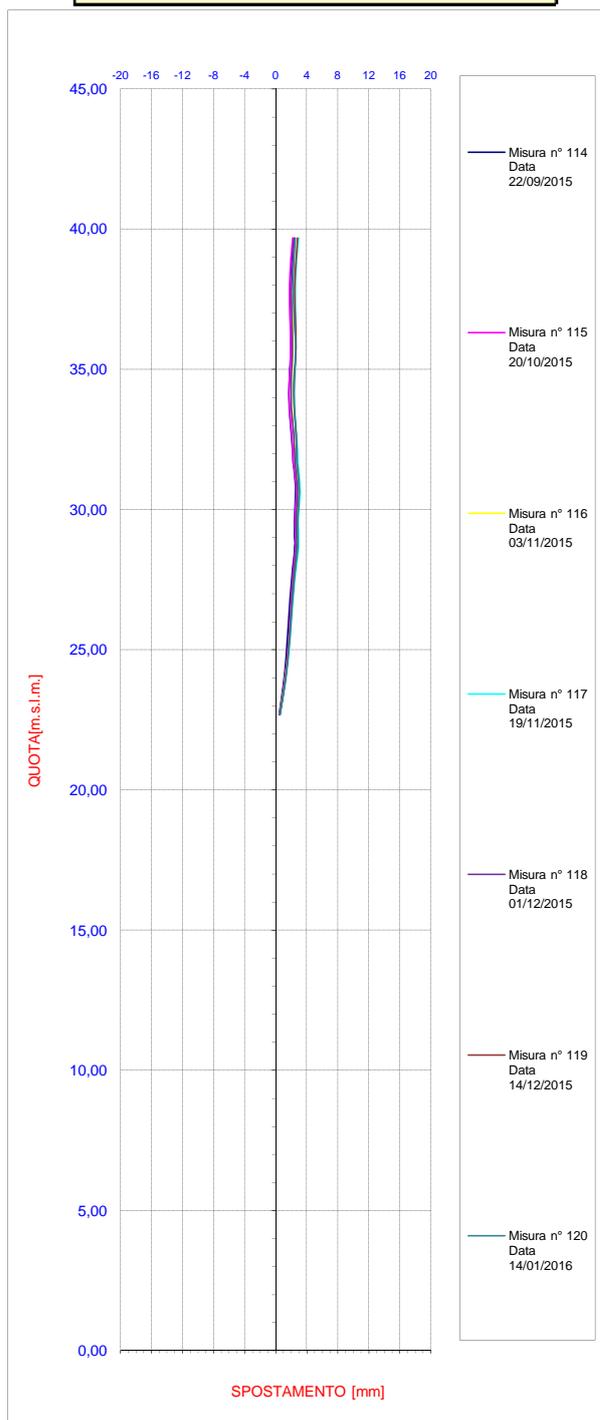
Ultima Misura **120** in data **14/01/2016 12:15**



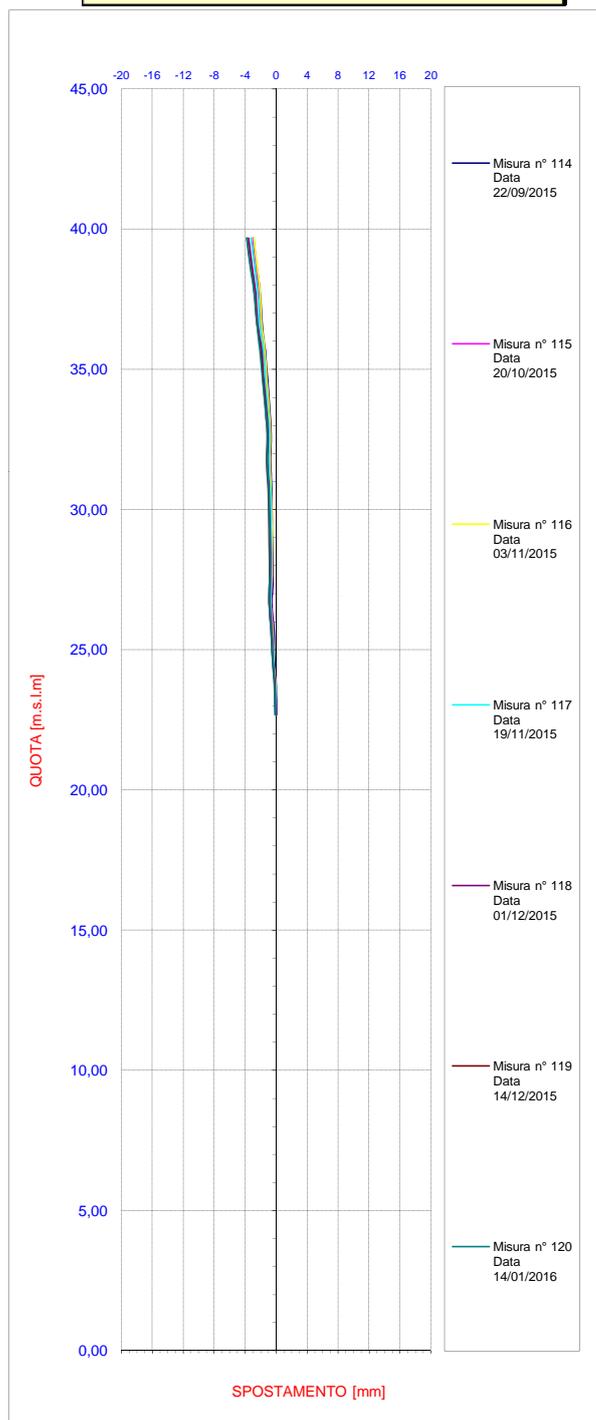
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P50**
 Azimut di riferimento **80**
 Quota guida rif. (m.s.l.m.) **40,18**
 Data lettura di zero **21/01/2011**
 Data posa in opera **21/12/2010**

Ultima Misura **120** in data **14/01/2016 12:15**

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



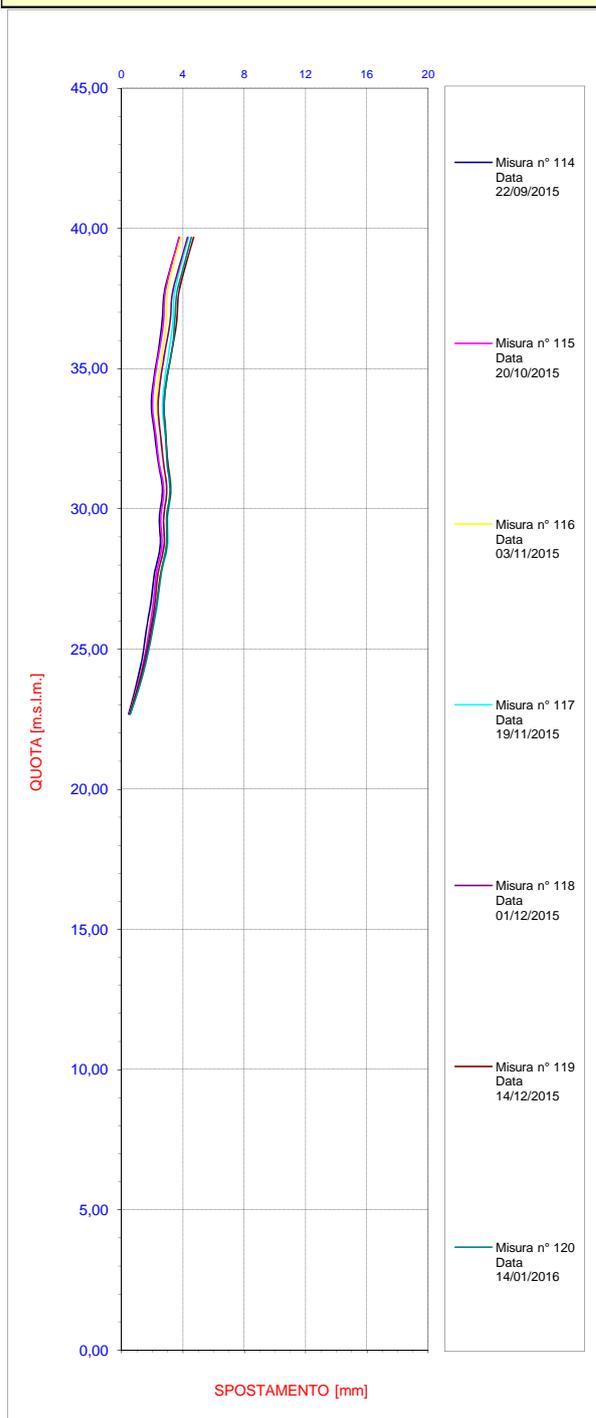
Spostamenti Differenziali Integrali
SUD - (valori negativi) / NORD + (valori positivi)



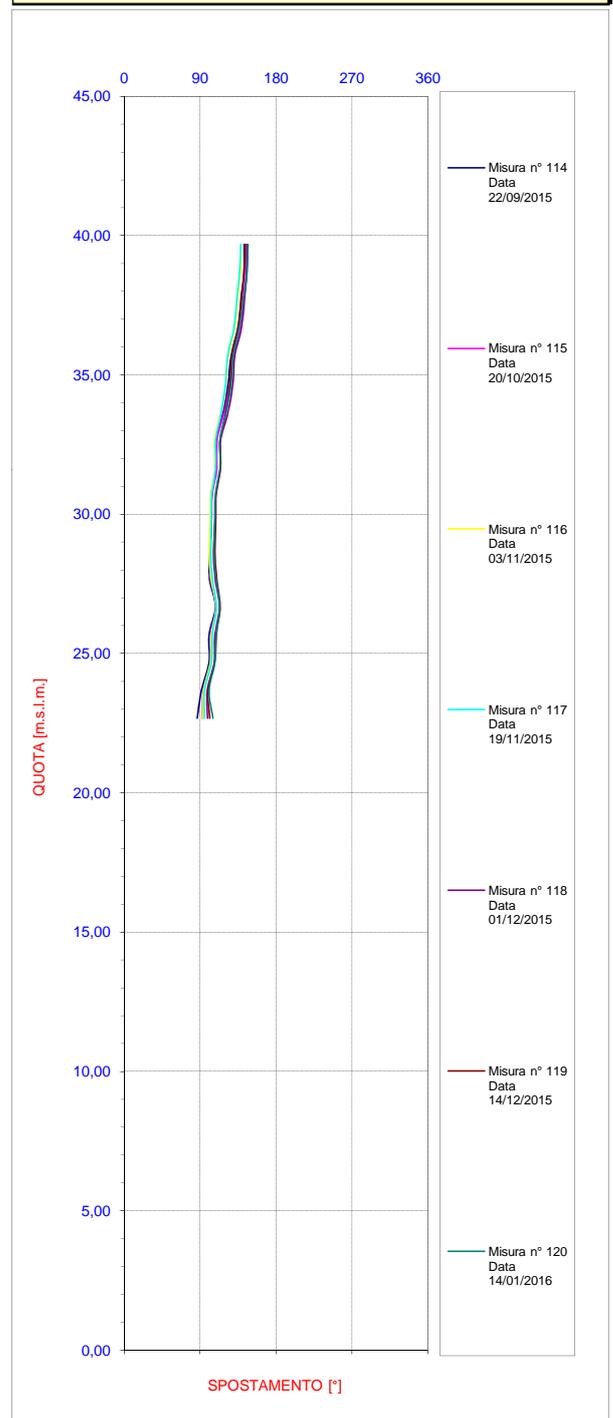
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P50**
 Azimut di riferimento **80**
 Quota guida rif. (m.s.l.m.) **40,18**
 Data lettura di zero **21/01/2011**
 Data posa in opera **21/12/2010**

Ultima Misura **120** in data **14/01/2016 12:15**

Spostamenti Differenziali Integrali Risultante



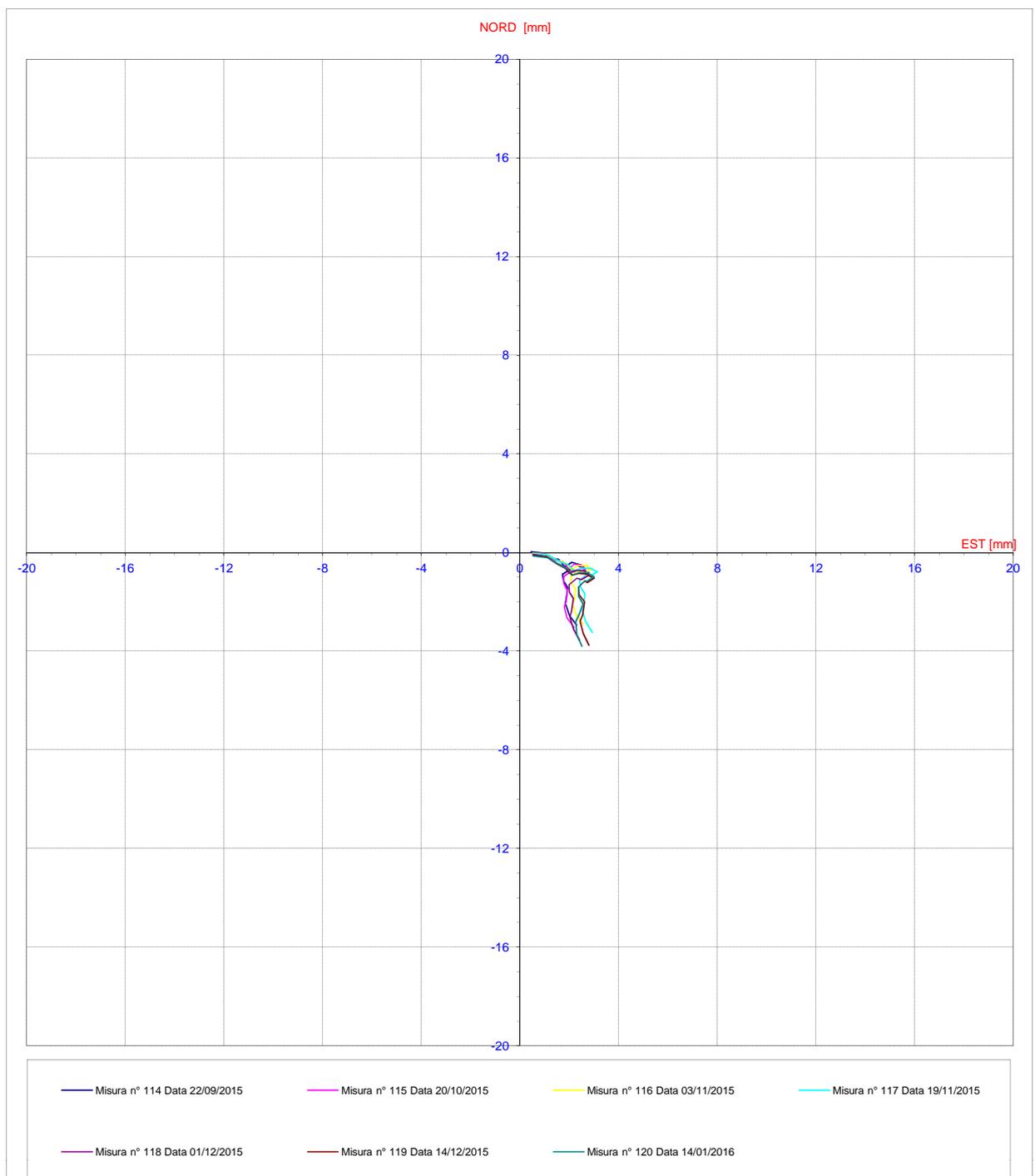
Spostamenti Differenziali Integrali Azimut



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

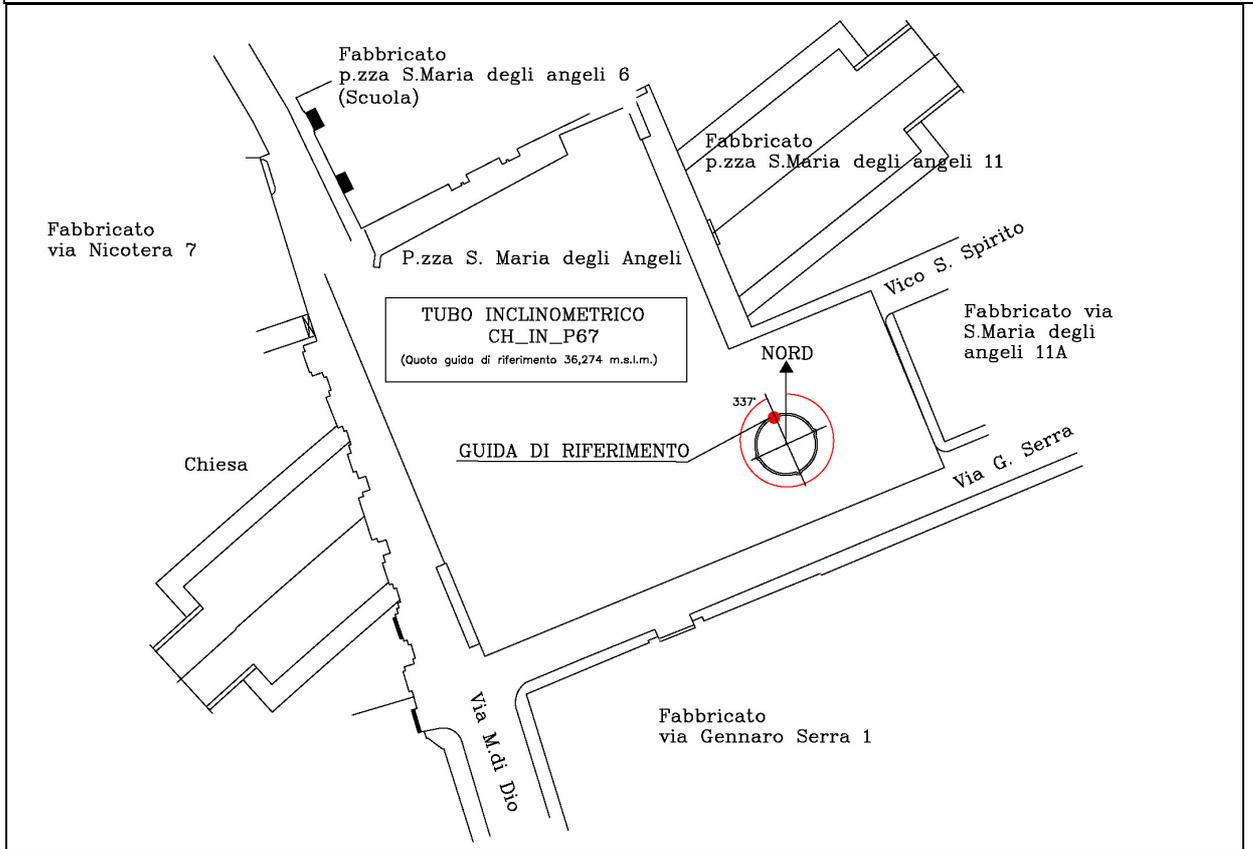
Ultima Misura	120	in data	14/01/2016 12:15
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Spostamenti Differenziali Integrali
Diagramma polare



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 **172** in data **14/01/2016 12:06**

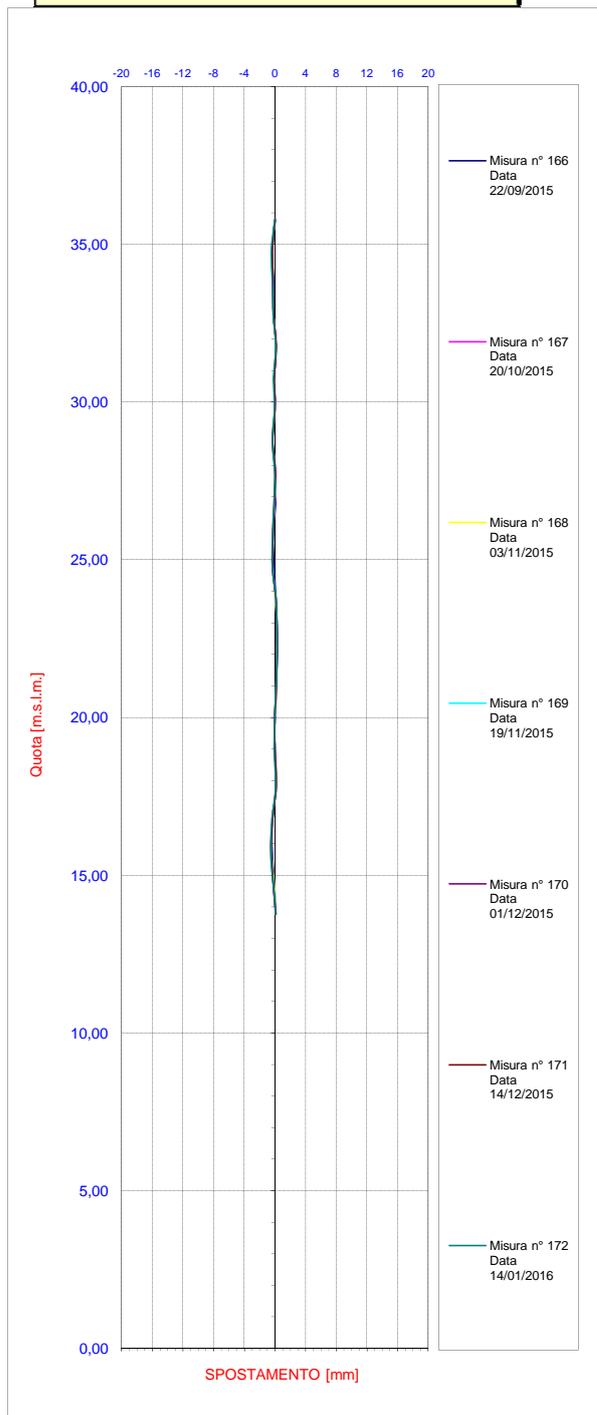
SPOSTAMENTI LOCALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
35,8	-0,059	0,043	0,073	305,810
34,8	-0,470	0,054	0,473	276,524
33,8	-0,342	0,263	0,431	307,565
32,8	-0,250	0,196	0,318	308,140
31,8	0,100	0,148	0,179	34,173
30,8	-0,192	-0,069	0,204	250,260
29,8	-0,079	0,366	0,374	347,793
28,8	-0,342	0,064	0,348	280,611
27,8	-0,058	0,258	0,264	347,323
26,8	-0,136	0,165	0,214	320,565
25,8	-0,327	0,710	0,781	335,283
24,8	-0,357	0,360	0,507	315,194
23,8	0,111	0,313	0,332	19,573
22,8	0,271	0,396	0,479	34,376
21,8	0,235	-0,437	0,497	151,741
20,8	0,076	-0,023	0,079	106,507
19,8	-0,088	0,509	0,516	350,188
18,8	-0,079	0,275	0,286	344,036
17,8	0,083	0,196	0,213	23,021
16,8	-0,394	0,493	0,631	321,400
15,8	-0,560	0,315	0,643	299,347
14,8	-0,266	0,209	0,338	308,131
13,8	0,077	0,273	0,283	15,665

SPOSTAMENTI INTEGRALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
35,8	-3,045	5,075	5,918	329,041
34,8	-2,985	5,033	5,851	329,322
33,8	-2,515	4,979	5,578	333,198
32,8	-2,173	4,716	5,193	335,256
31,8	-1,923	4,519	4,912	336,947
30,8	-2,024	4,372	4,817	335,159
29,8	-1,831	4,441	4,803	337,587
28,8	-1,752	4,075	4,436	336,731
27,8	-1,411	4,011	4,252	340,622
26,8	-1,353	3,753	3,989	340,180
25,8	-1,217	3,588	3,789	341,265
24,8	-0,890	2,878	3,013	342,814
23,8	-0,533	2,519	2,574	348,050
22,8	-0,644	2,205	2,298	343,712
21,8	-0,915	1,810	2,028	333,174
20,8	-1,150	2,247	2,524	332,892
19,8	-1,226	2,270	2,580	331,614
18,8	-1,138	1,761	2,097	327,115
17,8	-1,060	1,486	1,825	324,503
16,8	-1,143	1,290	1,724	318,449
15,8	-0,749	0,796	1,094	316,746
14,8	-0,189	0,481	0,517	338,560
13,8	0,077	0,273	0,283	15,665

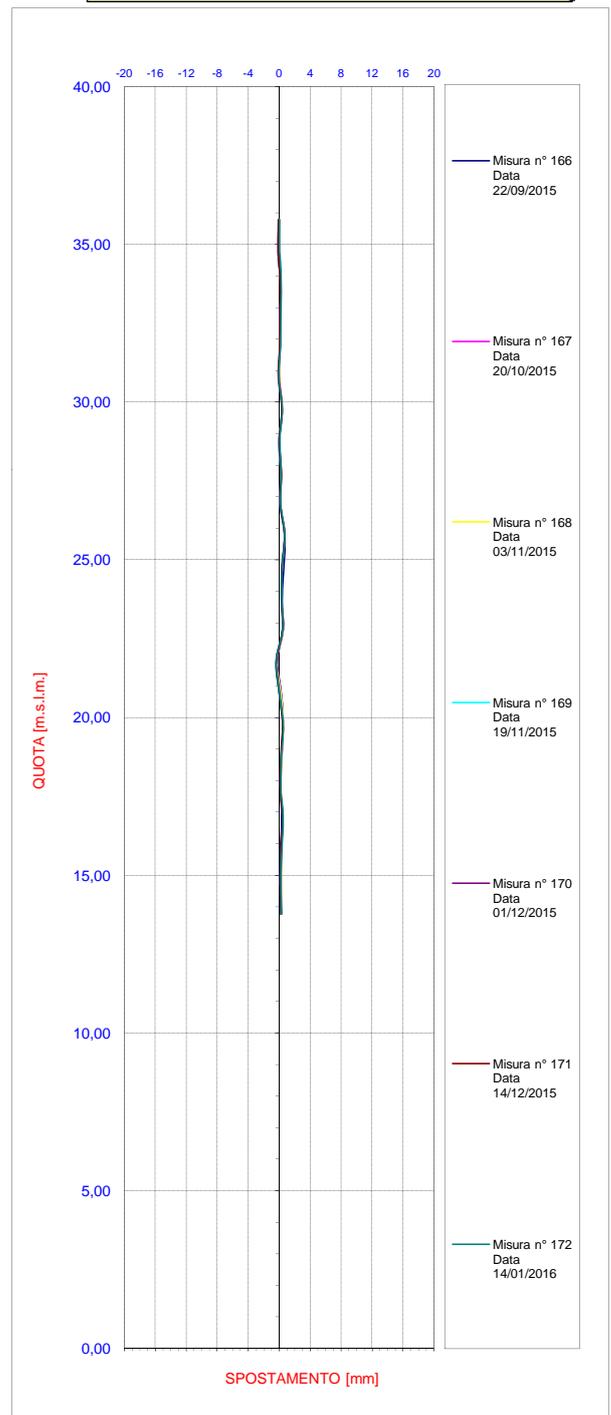
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P67**
 Azimut di riferimento **337**
 Quota guida rif. (m.s.l.m.) **36,274**
 Data lettura di zero **25/11/2009**
 Data posa in opera **18/11/2009**

Ultima Misura **172** in data **14/01/2016 12:06**

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

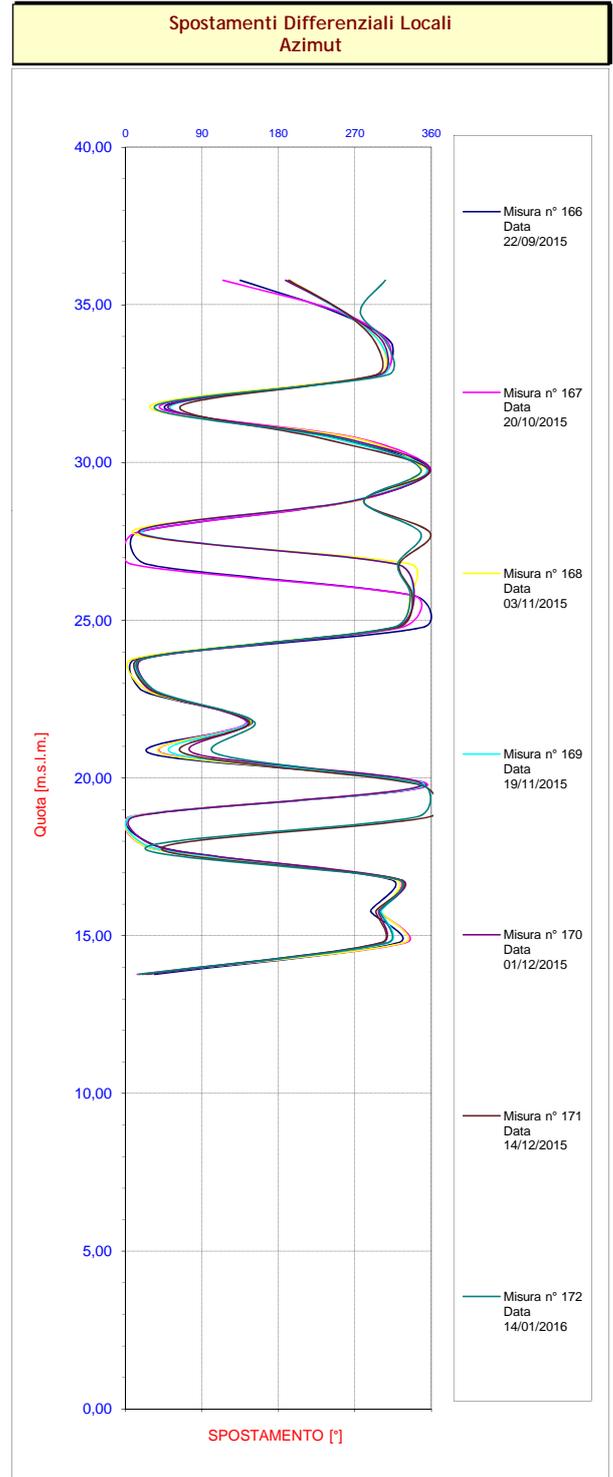
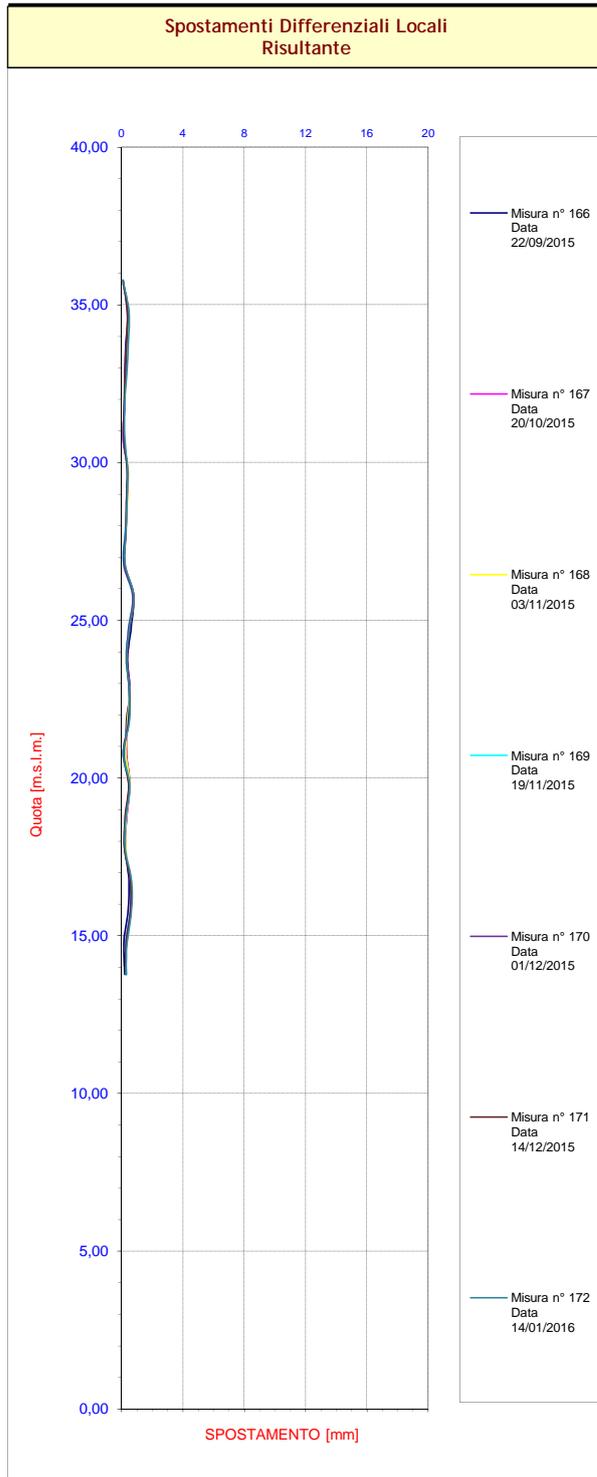


**Spostamenti Differenziali Locali
SUD - (valori negativi) / NORD + (valori positivi)**



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**
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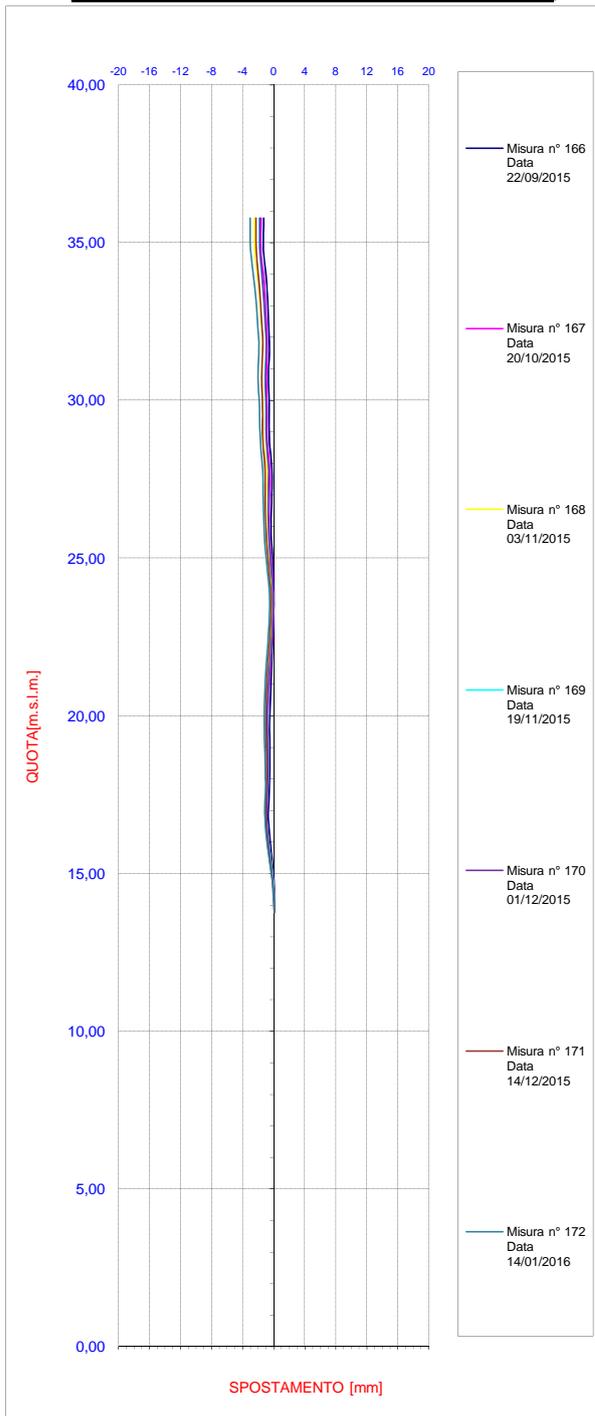
Ultima Misura **172** in data **14/01/2016 12:06**



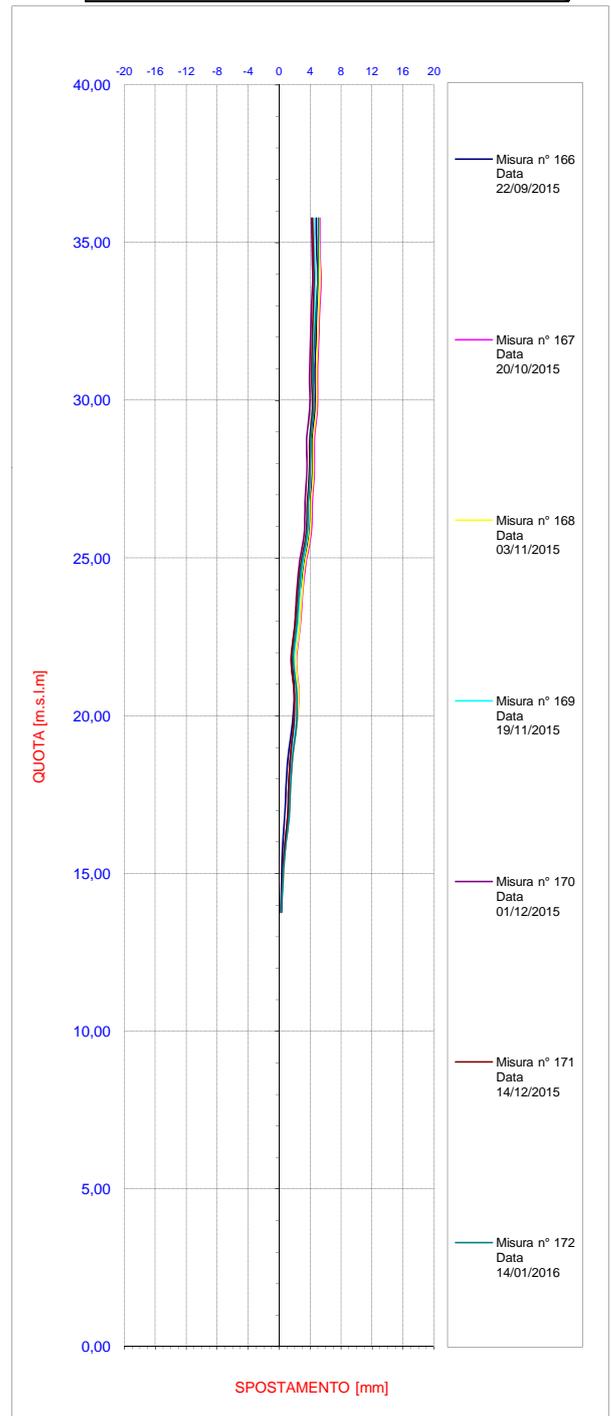
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P67**
 Azimut di riferimento **337**
 Quota guida rif. (m.s.l.m.) **36,274**
 Data lettura di zero **25/11/2009**
 Data posa in opera **18/11/2009**

Ultima Misura **172** in data **14/01/2016 12:06**

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



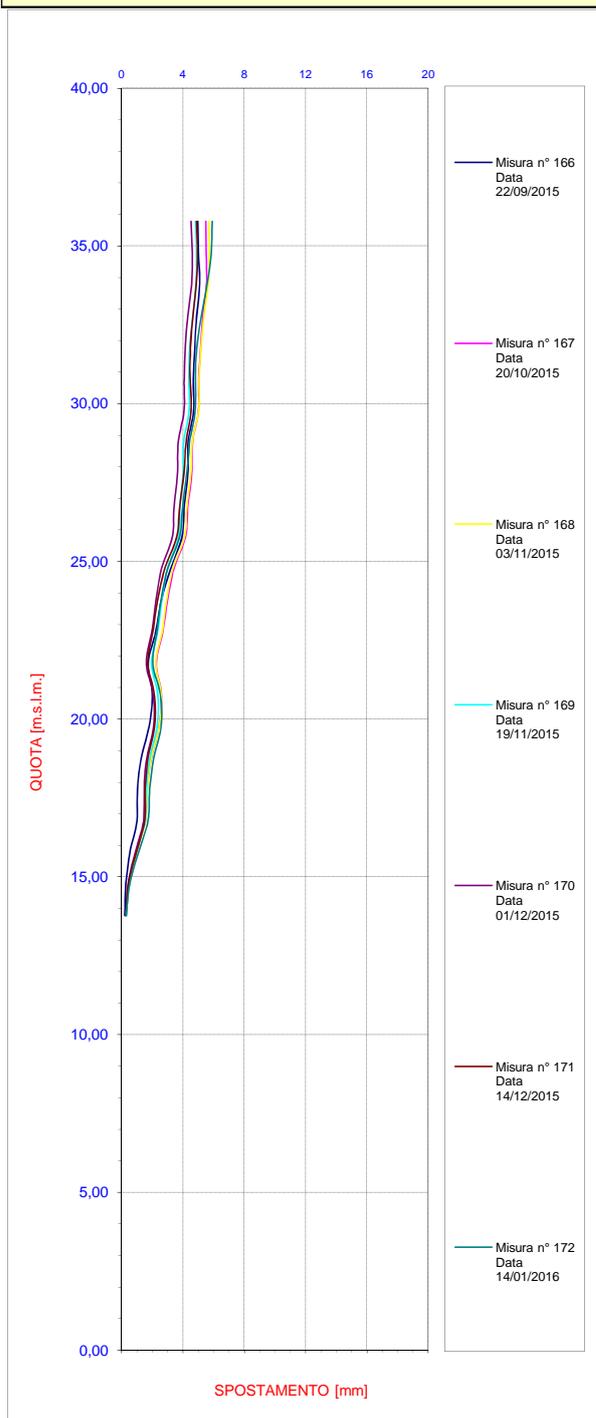
Spostamenti Differenziali Integrali
SUD - (valori negativi) / NORD + (valori positivi)



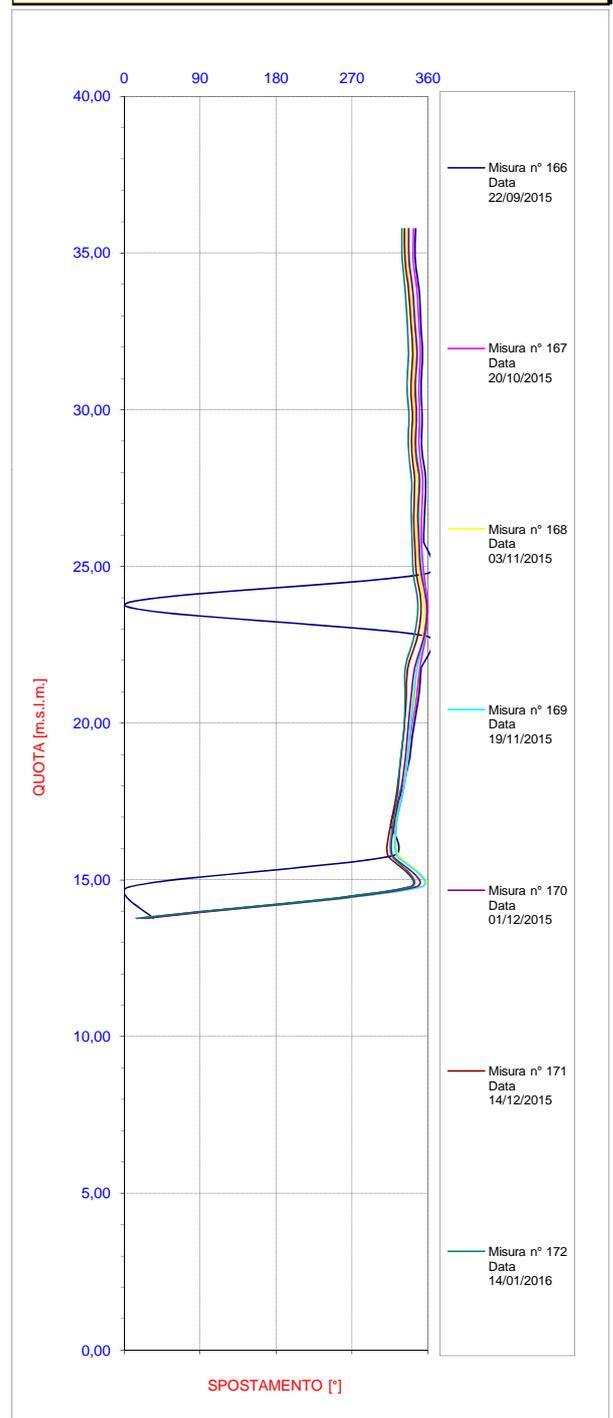
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P67**
 Azimut di riferimento **337**
 Quota guida rif. (m.s.l.m.) **36,274**
 Data lettura di zero **25/11/2009**
 Data posa in opera **18/11/2009**

Ultima Misura **172** in data **14/01/2016 12:06**

Spostamenti Differenziali Integrali Risultante



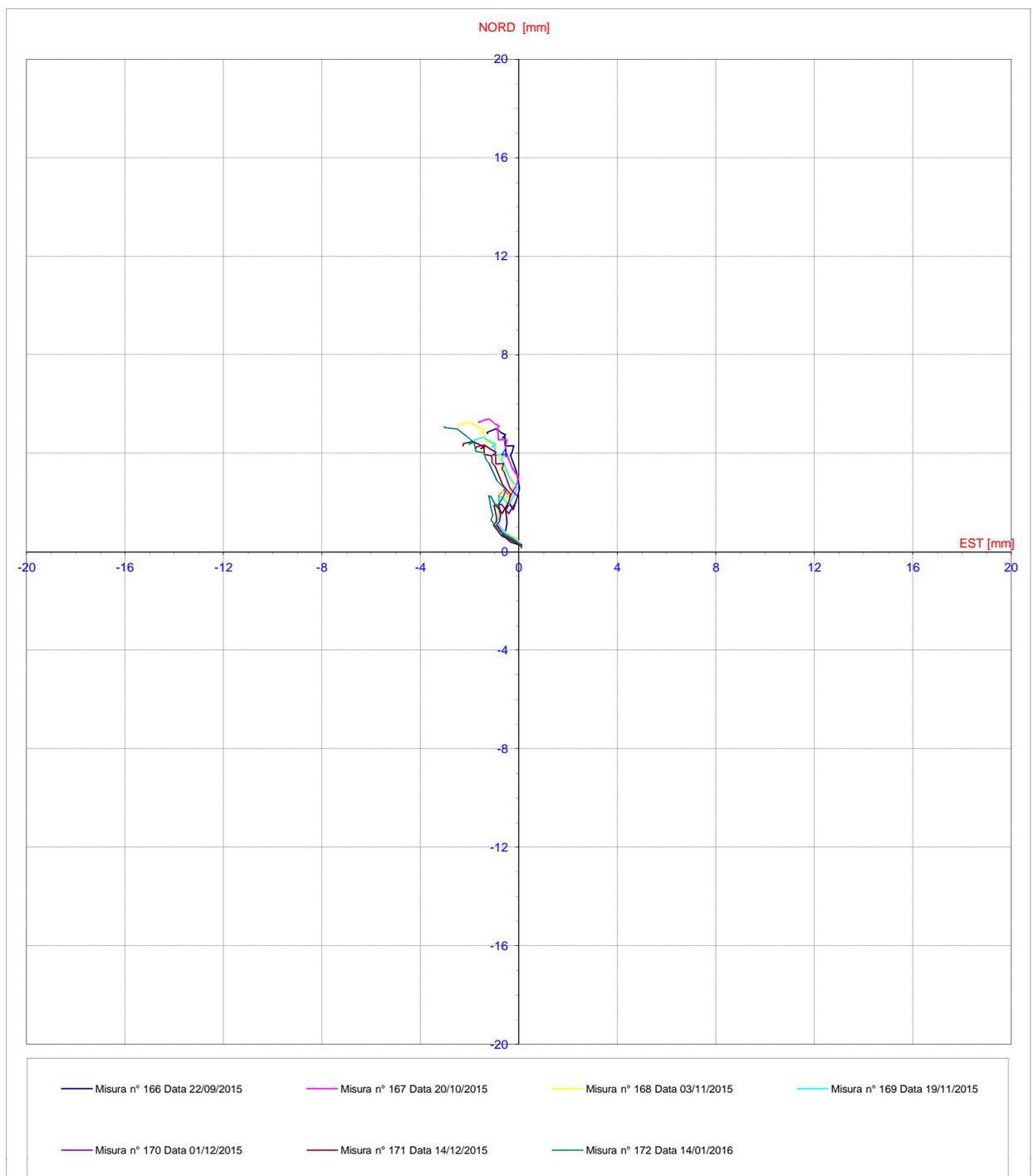
Spostamenti Differenziali Integrali Azimut

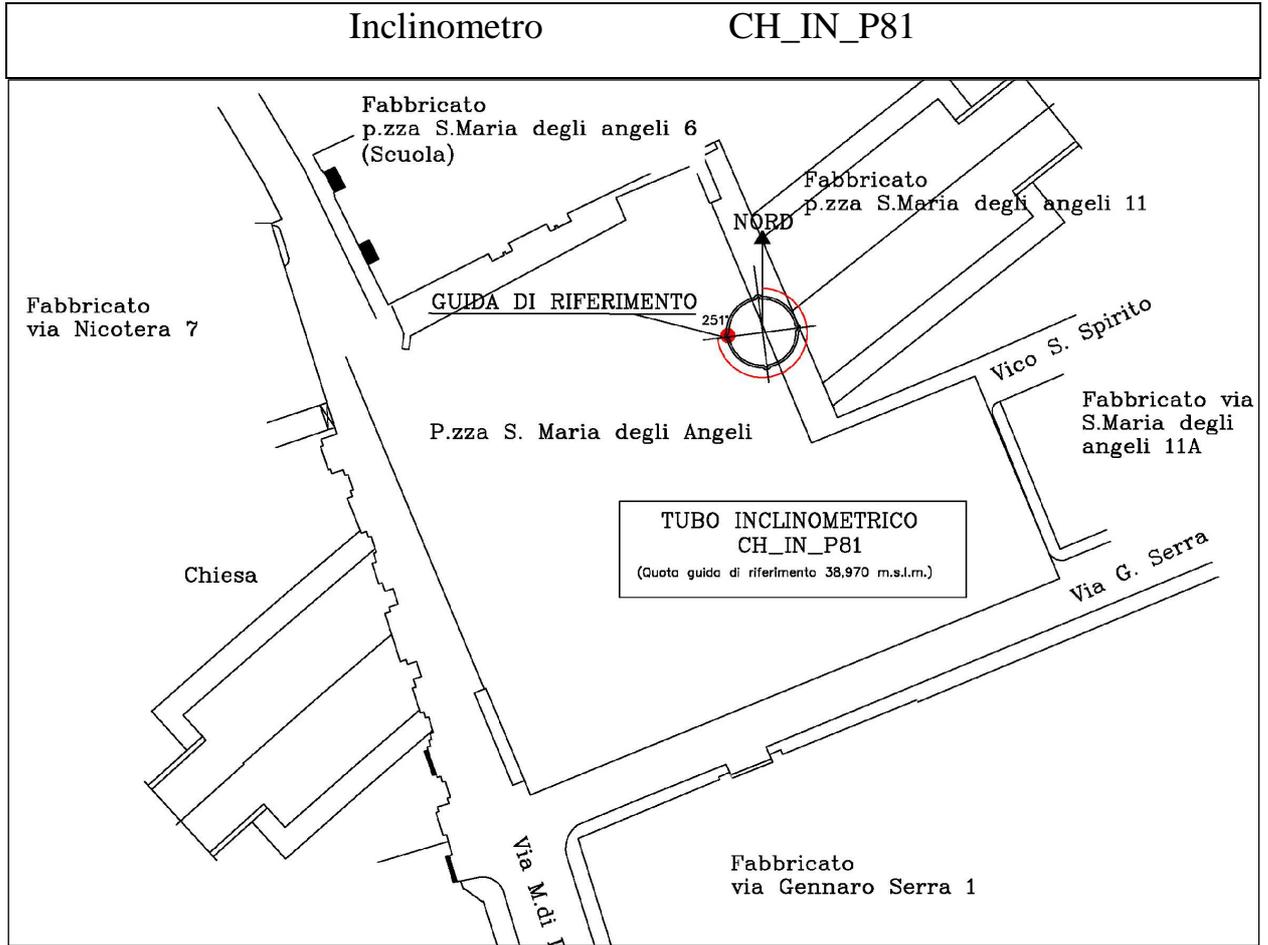


Ubicazione STAZIONE CHIAIA
 Tipo Strumento Tubo inclinometrico
 Nome tubo CH_IN_P67
 Azimut di riferimento 337
 Quota guida rif. (m.s.l.m.) 36,274
 Data lettura di zero 25/11/2009
 Data posa in opera 18/11/2009

Ultima Misura 172 in data 14/01/2016 12:06

Spostamenti Differenziali Integrali
Diagramma polare





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

NOTE



MISURE INCLINOMETRICHE
ELABORAZIONE DA FONDO FORO
-TABULATI-

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

Misura **119** in data **14/01/2016 11:59**

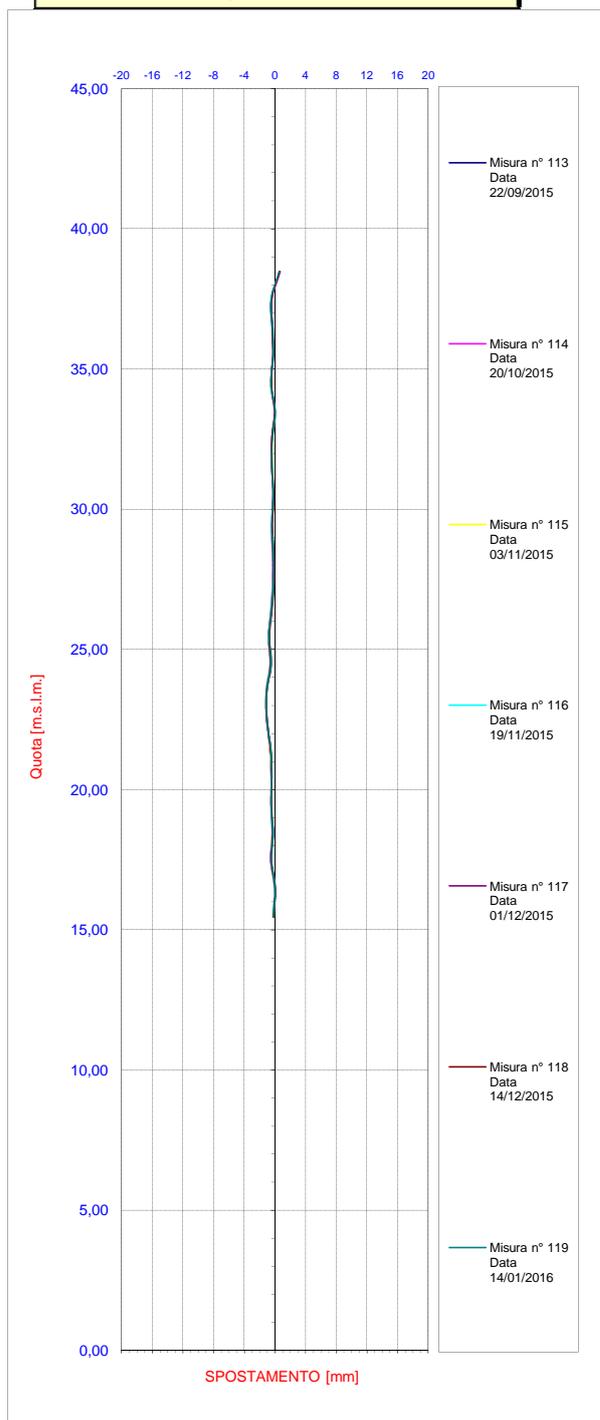
SPOSTAMENTI LOCALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
38,5	0,551	-0,700	0,890	141,789
37,5	-0,515	-0,513	0,726	225,119
36,5	-0,295	-0,227	0,372	232,518
35,5	-0,228	-0,111	0,254	244,125
34,5	-0,535	-0,005	0,535	269,451
33,5	0,030	-0,142	0,146	168,072
32,5	-0,371	-0,242	0,443	236,900
31,5	-0,398	0,108	0,412	285,145
30,5	-0,251	-0,184	0,311	233,759
29,5	-0,440	-0,014	0,440	268,151
28,5	-0,214	-0,179	0,279	230,131
27,5	-0,171	-0,285	0,333	211,022
26,5	-0,436	-0,175	0,470	248,148
25,5	-0,792	-0,537	0,957	235,887
24,5	-0,524	-0,282	0,595	241,699
23,5	-1,096	0,073	1,099	273,826
22,5	-1,072	-0,499	1,182	245,013
21,5	-0,547	-0,158	0,570	253,860
20,5	-0,440	-0,273	0,518	238,191
19,5	-0,512	-0,234	0,563	245,384
18,5	-0,256	-0,098	0,274	248,989
17,5	-0,449	-0,243	0,511	241,527
16,5	0,030	-0,100	0,104	163,548
15,5	-0,176	0,173	0,247	314,503

SPOSTAMENTI INTEGRALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
38,5	-9,108	-4,848	10,318	241,977
37,5	-9,659	-4,148	10,512	246,760
36,5	-9,144	-3,635	9,840	248,320
35,5	-8,849	-3,409	9,483	248,933
34,5	-8,621	-3,298	9,230	249,064
33,5	-8,086	-3,293	8,731	247,842
32,5	-8,116	-3,150	8,706	248,785
31,5	-7,745	-2,909	8,274	249,416
30,5	-7,348	-3,017	7,943	247,680
29,5	-7,097	-2,833	7,641	248,241
28,5	-6,656	-2,818	7,228	247,052
27,5	-6,442	-2,640	6,962	247,720
26,5	-6,271	-2,355	6,698	249,421
25,5	-5,835	-2,180	6,228	249,517
24,5	-5,042	-1,643	5,303	251,953
23,5	-4,518	-1,361	4,719	253,240
22,5	-3,422	-1,434	3,710	247,264
21,5	-2,350	-0,935	2,529	248,317
20,5	-1,803	-0,776	1,963	246,710
19,5	-1,363	-0,503	1,453	249,735
18,5	-0,852	-0,269	0,893	252,476
17,5	-0,595	-0,170	0,619	254,020
16,5	-0,147	0,073	0,164	296,468
15,5	-0,176	0,173	0,247	314,503

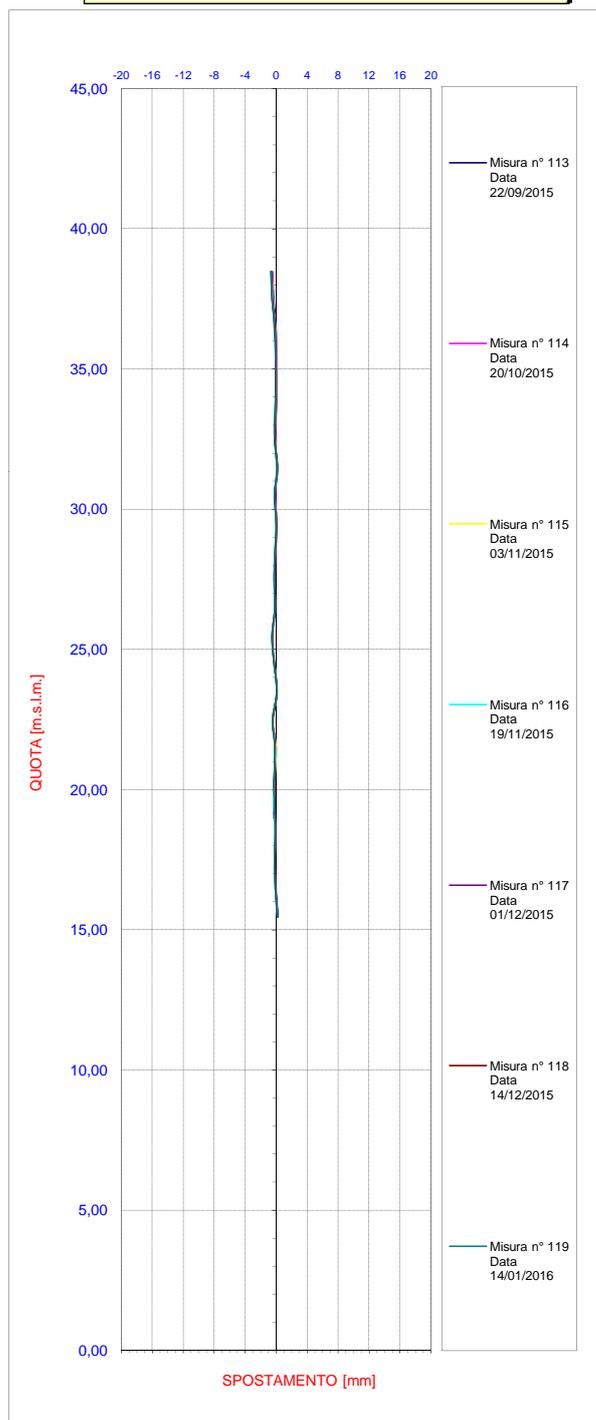
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P81**
 Azimut di riferimento **251**
 Quota guida rif. (m.s.l.m.) **38,97**
 Data lettura di zero **21/01/2011**
 Data posa in opera **21/12/2010**

Ultima Misura **119** in data **14/01/2016 11:59**

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

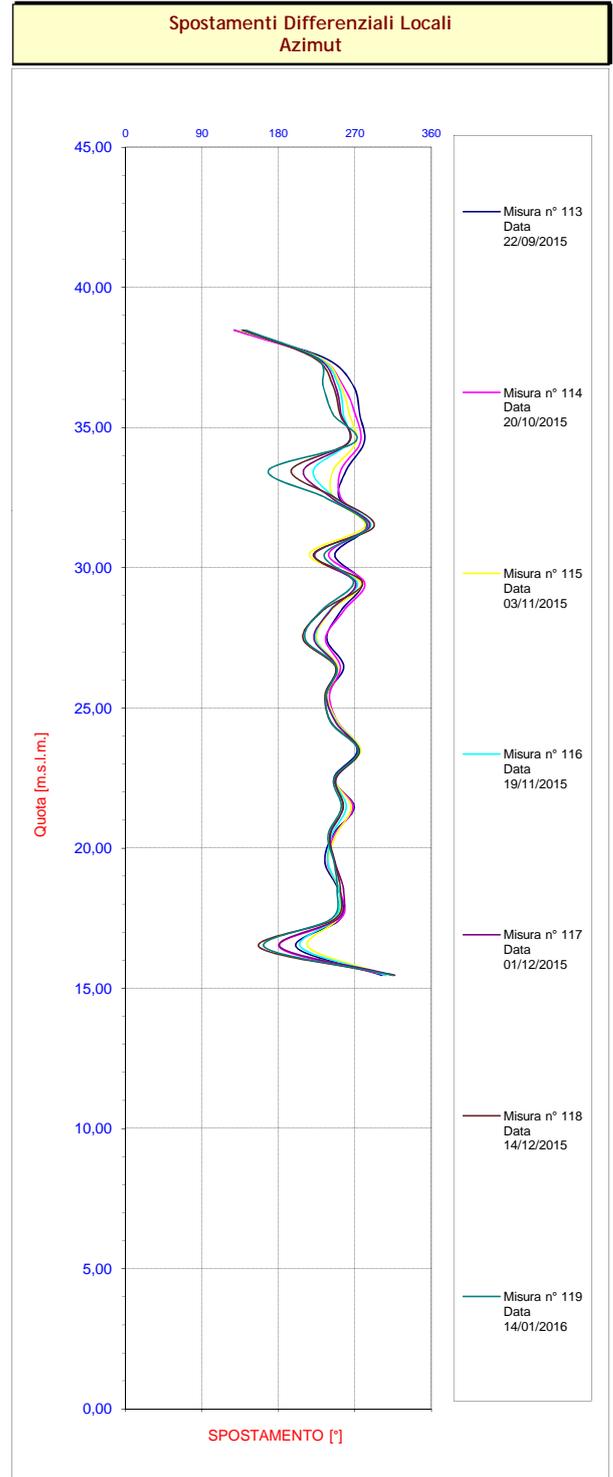
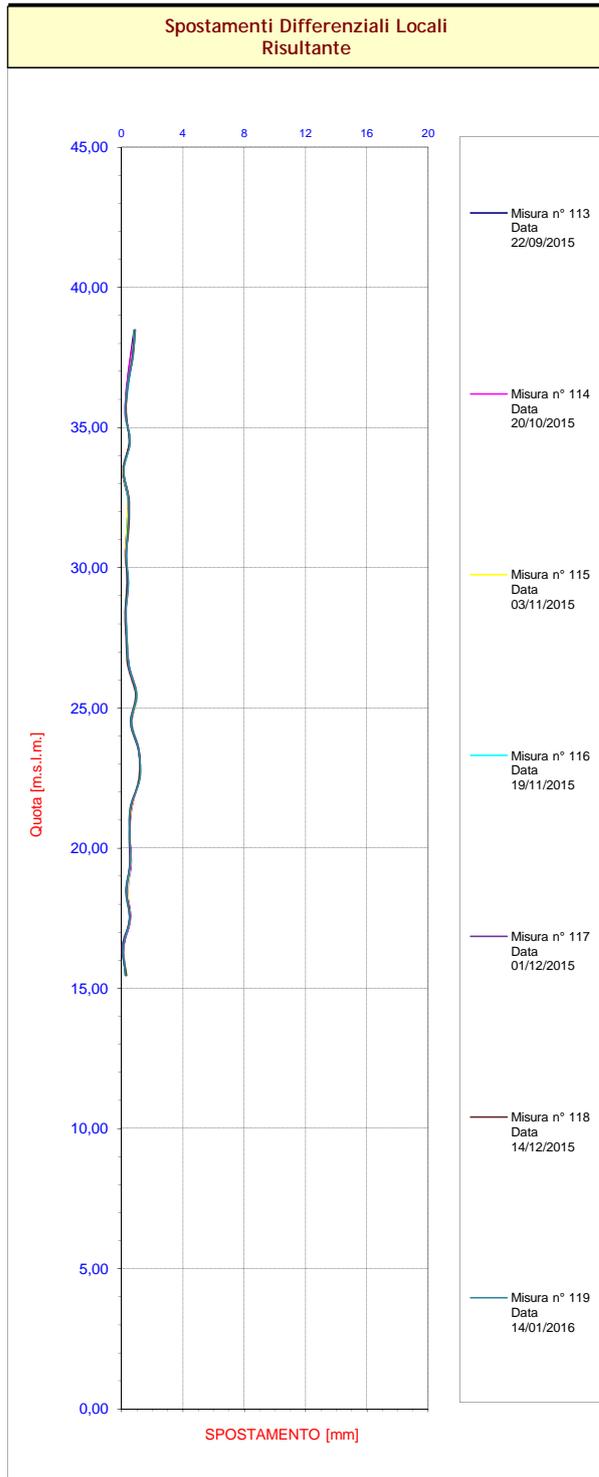


Spostamenti Differenziali Locali
SUD - (valori negativi) / NORD + (valori positivi)



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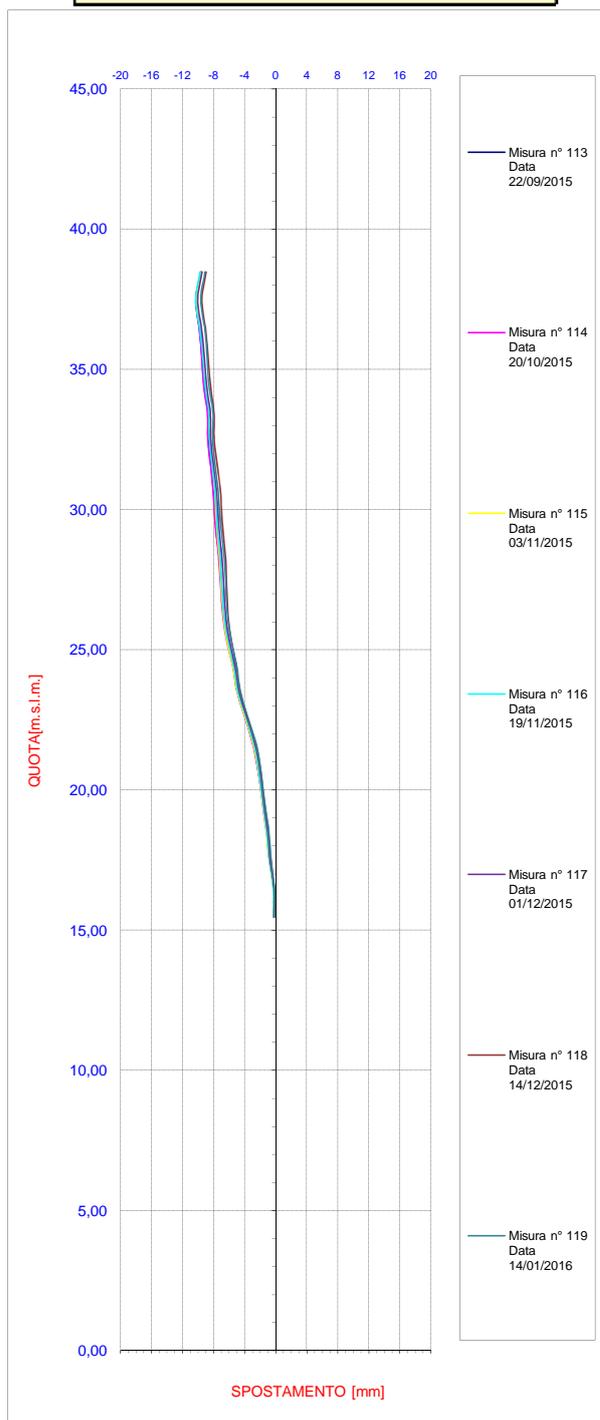
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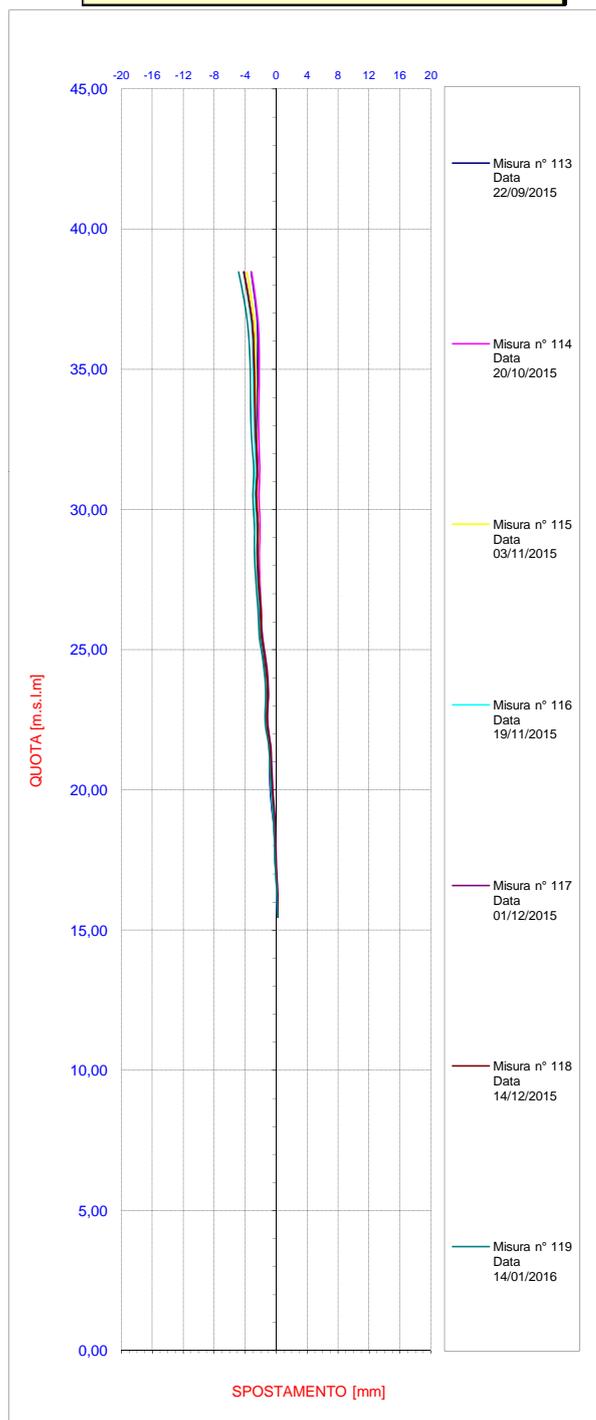
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P81**
 Azimut di riferimento **251**
 Quota guida rif. (m.s.l.m.) **38,97**
 Data lettura di zero **21/01/2011**
 Data posa in opera **21/12/2010**

Ultima Misura **119** in data **14/01/2016 11:59**

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



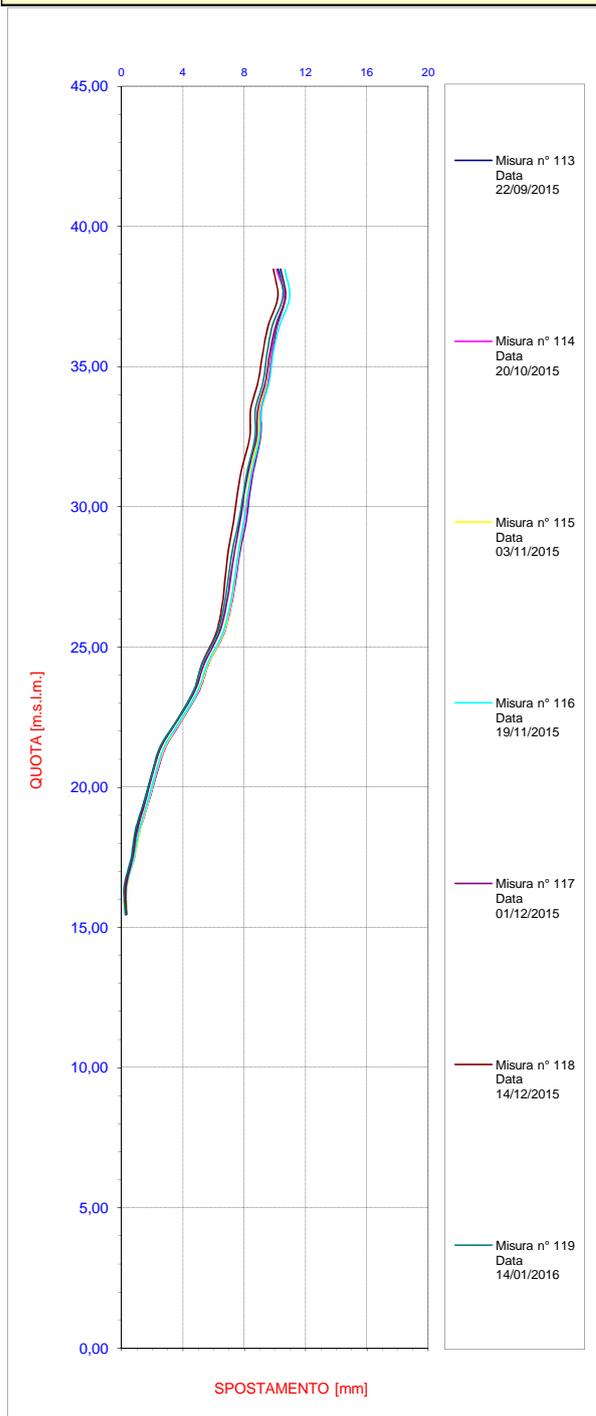
Spostamenti Differenziali Integrali
SUD - (valori negativi) / NORD + (valori positivi)



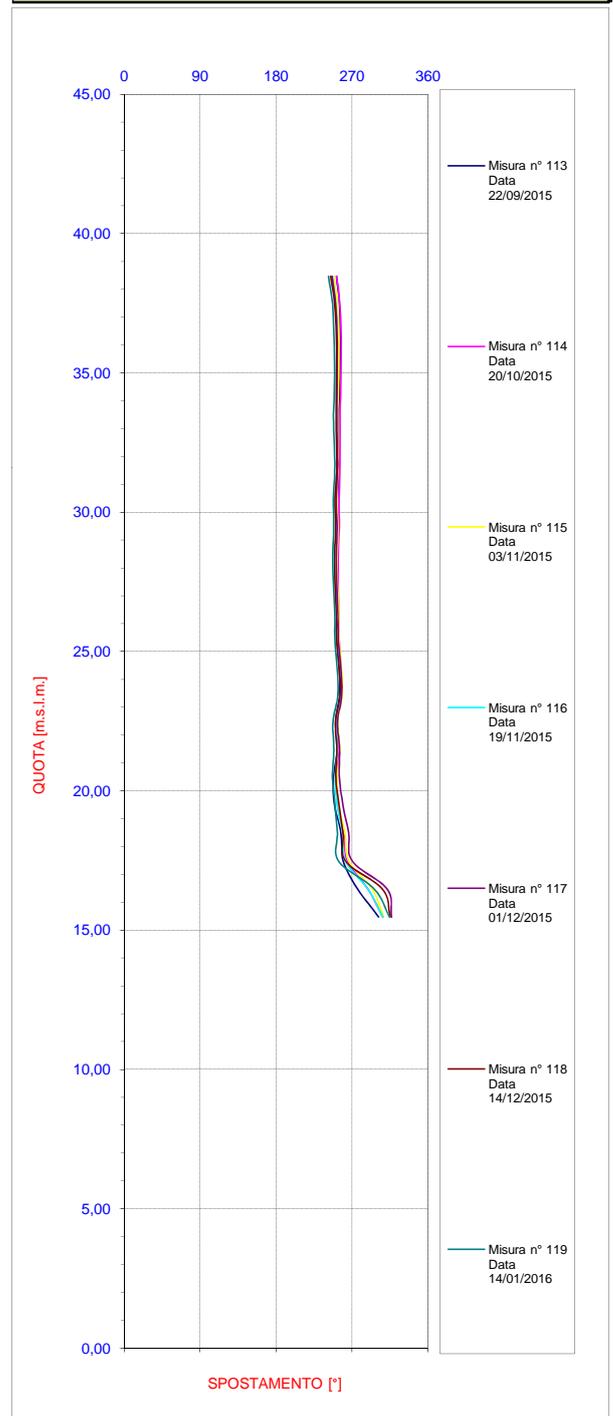
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P81**
 Azimut di riferimento **251**
 Quota guida rif. (m.s.l.m.) **38,97**
 Data lettura di zero **21/01/2011**
 Data posa in opera **21/12/2010**

Ultima Misura **119** in data **14/01/2016 11:59**

Spostamenti Differenziali Integrali Risultante



Spostamenti Differenziali Integrali Azimut



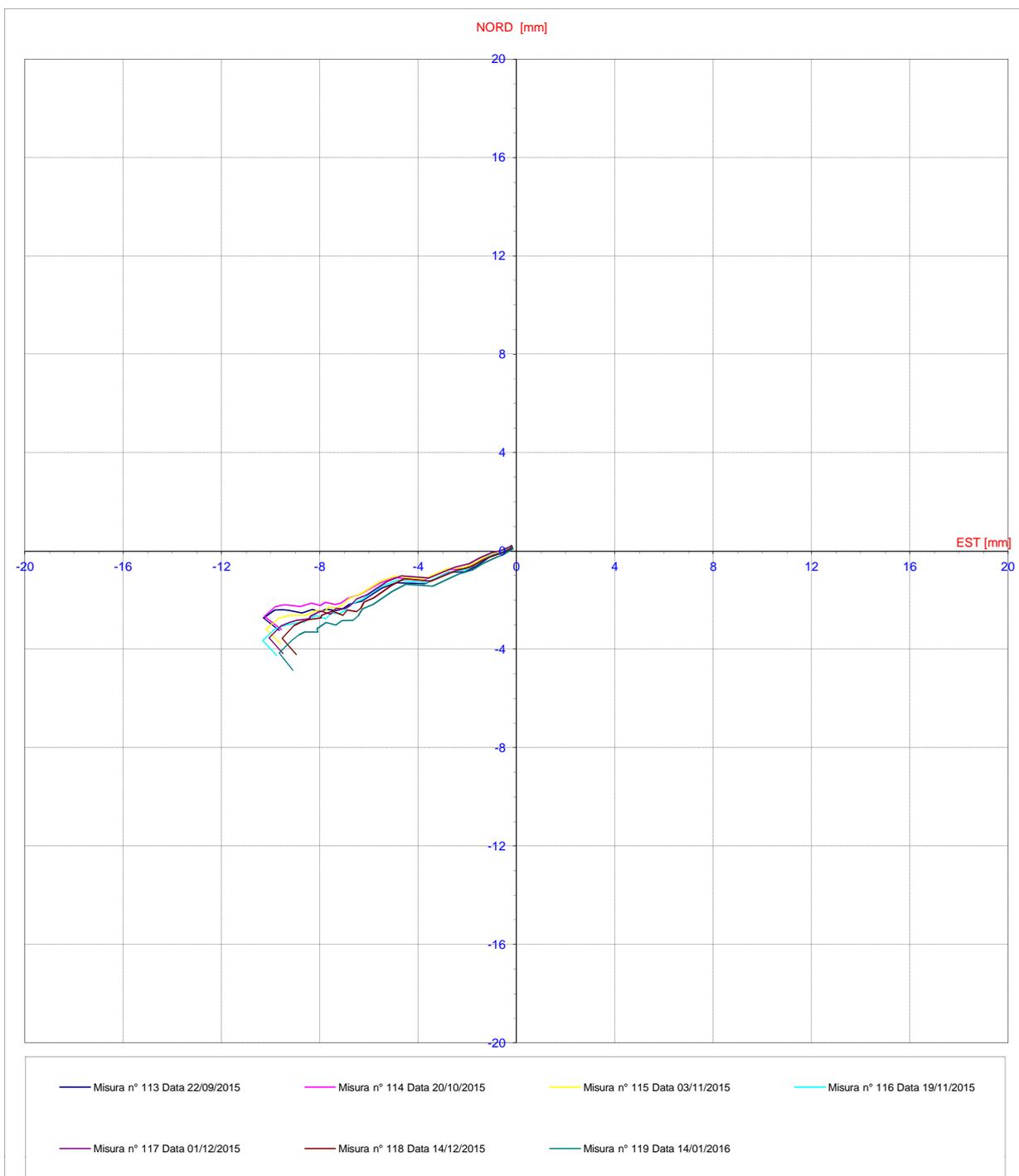


MISURE INCLINOMETRICHE
ELABORAZIONE DA FONDO FORO
-GRAFICI-5/5

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 119 in data 14/01/2016 11:59

Spostamenti Differenziali Integrali
Diagramma polare



8. MISURE GEOTECNICHE – BARRETTE ESTENSIMETRICHE A CORDA VIBRANTE

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

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

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

 <p>Ansaldo STS A Finmeccanica Company</p>	<p>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</p> <p><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO</i></p> <p><i>REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C I 48 Data: 29/01/16 Metropolit. di Napoli A.T.I. LM6 TreEsse Engineering S.r.l.</p>
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Tabelle Riepilogative Per Le Barrette Estensimetriche Installate In Cantiere

Tabella Pannello N°13

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

Tabella Pannello N°50

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

 <p>Ansaldo STS A Finmeccanica Company</p>	<p>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</p> <p><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO</i></p> <p><i>REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C I 48 Data: 29/01/16 Metropolit. di Napoli A.T.I. LM6 TreEsse Engineering S.r.l.</p>
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Tabella Pannello N°67

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

Tabella Pannello N°81

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

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

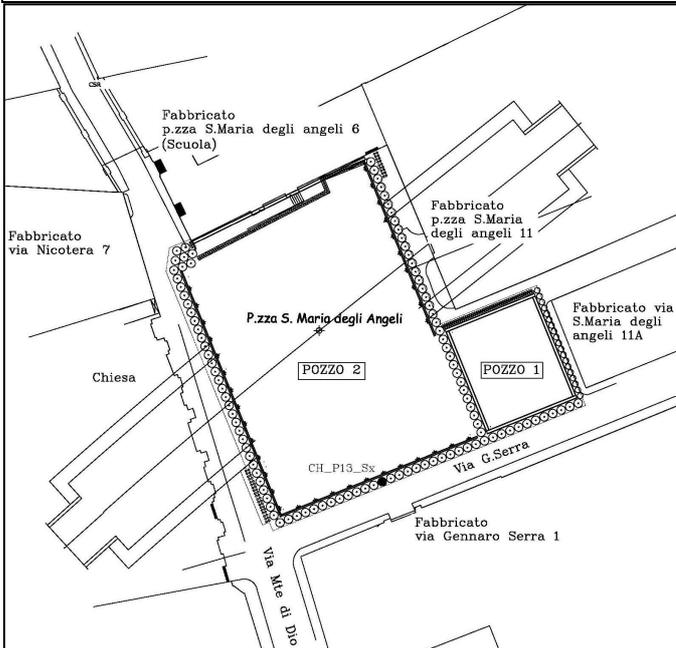
 <p>Ansaldo STS A Finmeccanica Company</p>	<p>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</p> <p><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO</i></p> <p><i>REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C I 48 Data: 29/01/16 Metropolit. di Napoli A.T.I. LM6 TreEsse Engineering S.r.l.</p>
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Tabella Puntoni PU1 e PU2

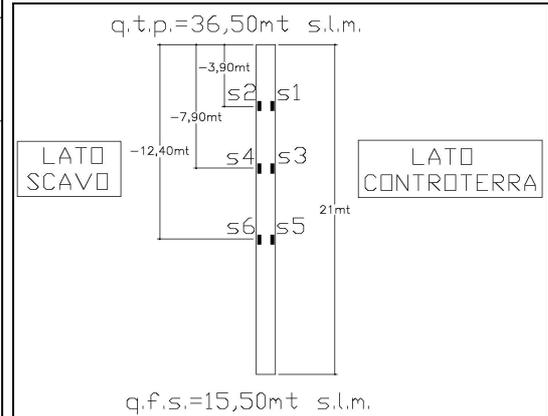
NOME	TIPOLOGIA STRUMENTAZIONE	DATA INSTALL.	DISPONIBILITA' LETTURA			NOTE
			DATA LETT. DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
CH_PU1_S1	BARRETTE ESTENSIMETRICHE A C.V.	12/09/11	14/09/11			
CH_PU1_S2	BARRETTE ESTENSIMETRICHE A C.V.	12/09/11	14/09/11			
CH_PU1_S3	BARRETTE ESTENSIMETRICHE A C.V.	12/09/11	14/09/11		05/11/14	Danneggiata. nessun valore
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 231 in data 25/01/2016

Letture n°	DATA	CH_P13_S1		CH_P13_S3		CH_P13_S4		CH_P13_S5		CH_P13_S6	
		Micro strain [µε]	Temp. [°C]								
179	15/5/14 10:00	-59,0	13,2	-230,5	12,2	14,5	14,4	-56,2	13,8	29,1	14,2
180	20/5/14 11:00	-50,9	15,2	-176,4	14,3	2,7	16,1	-104,1	15,2	29,1	16,2
181	27/5/14 10:00	-85,8	15,0	-157,3	14,2	-13,5	16,1	-110,6	15,0	10,5	16,0
182	3/6/14 11:00	-107,7	15,2	-176,4	14,3	-19,2	16,3	-112,2	15,2	-5,8	16,0
183	10/6/14 11:00	-126,4	15,0	-139,0	14,7	-34,2	16,4	-134,2	15,4	-22,4	16,3
184	17/6/14 12:00	-128,5	15,5	-147,2	14,7	-49,3	16,5	-103,3	15,6	-18,4	16,3
185	24/6/14 11:00	-149,6	15,1	-168,3	14,3	-62,3	16,1	-120,4	15,2	-38,3	16,0
186	1/7/14 11:00	-164,6	15,2	-174,0	14,5	-57,0	16,2	-130,9	15,0	-44,0	16,2
187	8/7/14 10:00	-174,0	15,1	-168,3	14,3	-48,9	16,2	-136,2	14,9	-35,9	16,2
188	15/7/14 11:00	-180,9	15,2	-156,5	14,6	-42,4	16,4	-140,7	15,2	-25,3	16,4
189	24/7/14 11:00	-175,6	15,3	-161,8	14,5	-47,6	16,3	-137,8	15,1	-22,4	16,3
190	29/7/14 11:00	-182,5	15,4	-160,2	14,3	-57,4	16,5	-144,7	15,2	-24,1	16,5
191	19/8/14 11:00	-189,0	15,2	-167,1	14,4	-62,7	16,4	-150,0	15,1	-18,8	16,6
192	26/8/14 11:00	-183,7	15,3	-161,8	14,5	-69,6	16,5	-143,1	15,0	-17,2	16,4
193	2/9/14 14:00	-179,2	15,0	-158,9	14,4	-58,6	16,4	-141,5	14,8	-11,5	16,2
194	9/9/14 11:00	-180,9	15,2	-169,5	14,2	-69,2	16,2	-150,8	14,7	-14,3	16,3
195	16/9/14 11:00	-187,4	15,0	-180,1	14,0	-75,7	16,0	-158,6	14,4	-28,9	16,1
196	1/10/14 11:00	-180,1	14,6	-168,7	13,6	-68,4	15,6	-147,2	14,0	-26,9	15,6
197	14/10/14 11:00	-190,6	14,4	-179,3	13,4	-61,5	15,5	-154,1	14,1	-17,6	15,7
198	5/11/14 11:00	-187,8	14,3	-174,0	13,5	-66,7	15,4	-159,4	14,0	-13,1	15,4
199	19/11/14 11:00	-197,1	14,2	-168,7	13,6	-73,3	15,2	-154,1	14,1	-19,6	15,2
200	2/12/14 11:00	-203,6	14,0	-175,6	13,7	-70,4	15,1	-161,0	14,2	-24,9	15,1
201	19/12/14 11:00	-209,3	14,2	-185,0	13,6	-73,3	15,2	-150,4	14,4	-18,0	15,0
202	22/1/15 11:00	-207,7	14,0	-182,1	13,5	-71,6	15,0	-161,0	14,2	-24,9	15,1
203	12/2/15 11:00	-214,6	14,1	-181,7	13,2	-66,3	15,1	-155,7	14,3	-18,0	15,0
204	26/2/15 11:00	-228,0	14,0	-191,1	13,1	-71,6	15,0	-161,0	14,2	-29,8	14,7
205	11/3/15 11:00	-222,7	14,1	-188,2	13,0	-74,5	15,1	-154,1	14,1	-36,3	14,5
206	23/3/15 11:00	-233,7	14,2	-196,7	13,3	-70,0	14,8	-163,4	14,0	-52,1	14,2
207	30/3/15 11:00	-232,1	14,0	-191,5	13,4	-72,8	14,9	-152,9	14,2	-45,2	14,1
208	8/4/15 11:00	-223,5	13,7	-206,1	13,2	-80,6	14,6	-163,4	14,0	-42,4	14,0
209	21/4/15 11:00	-216,6	13,6	-198,0	13,2	-77,7	14,5	-150,0	14,1	-37,1	14,1
210	29/4/15 11:00	-235,3	13,4	-211,4	13,1	-85,5	14,2	-159,4	14,0	-53,3	14,1
211	5/5/15 11:00	-233,7	13,2	-224,8	13,0	-96,0	14,0	-162,2	14,1	-46,4	14,0
212	14/5/15 11:00	-240,6	13,3	-218,3	13,2	-102,9	14,1	-152,9	14,2	-35,9	14,2
213	21/5/15 11:00	-243,4	13,4	-216,6	13,0	-112,3	14,0	-147,6	14,3	-33,0	14,1
214	9/6/15 11:30	-209,3	14,2	-190,2	13,5	-71,6	15,0	-137,0	14,5	-17,6	14,7
215	23/6/15 11:50	-216,2	14,3	-195,5	13,4	-78,1	14,8	-148,0	14,6	-27,3	14,9
216	7/7/15 11:50	-208,5	14,6	-185,0	13,6	-60,3	14,6	-141,1	14,5	-21,7	14,7
217	6/8/15 11:50	-213,8	14,5	-183,3	13,4	-65,5	14,5	-152,9	14,2	-20,0	14,5
218	25/8/15 12:00	-212,1	14,3	-178,0	13,5	-56,2	14,6	-147,6	14,3	-10,7	14,6
219	8/9/15 12:00	-210,5	14,1	-189,8	13,2	-66,8	14,4	-162,2	14,1	-26,5	14,3
220	22/9/15 14:00	-203,6	14,0	-188,2	13,0	-62,3	14,1	-151,3	14,0	-22,1	14,0
221	6/10/15 14:00	-214,2	13,8	-182,9	13,1	-67,6	14,0	-161,8	13,8	-32,6	13,8
222	20/10/15 13:00	-207,3	13,7	-176,0	13,0	-64,3	13,6	-156,1	13,6	-47,3	13,6
223	27/10/15 13:00	-204,4	13,6	-170,7	13,1	-62,7	13,4	-158,6	13,4	-46,9	13,3
224	3/11/15 10:00	-197,1	13,2	-170,3	12,8	-77,3	13,2	-174,4	13,1	-41,2	13,1
225	19/11/15 10:00	-207,7	13,0	-176,8	12,6	-75,7	13,0	-171,6	13,0	-34,3	13,0
226	1/12/15 10:00	-210,5	13,1	-179,7	12,7	-78,6	13,1	-170,0	12,8	-47,7	12,9
227	14/12/15 10:00	-217,4	13,2	-186,6	12,8	-100,1	13,0	-187,4	12,7	-57,4	13,1
228	22/12/15 10:00	-214,6	13,1	-183,7	12,7	-94,8	13,1	-184,6	12,6	-54,6	13,0
229	14/1/16 10:00	-207,7	13,0	-180,9	12,6	-87,9	13,0	-178,9	12,4	-44,8	12,8
230	22/1/16 10:00	-210,5	13,1	-186,6	12,8	-90,7	13,1	-169,6	12,5	-50,1	12,7
231	25/1/16 10:00	-207,7	13,0	-191,9	12,7	-96,0	13,0	-172,4	12,6	-56,6	12,5



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

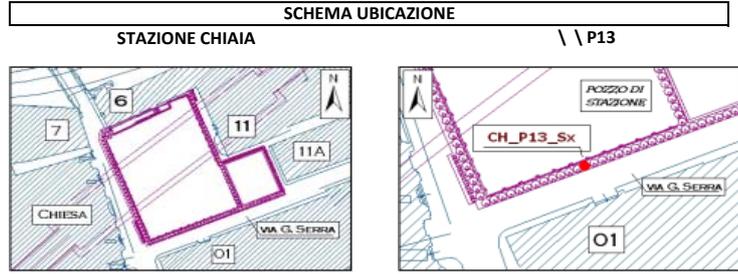


GRAFICO MICROSTRAIN

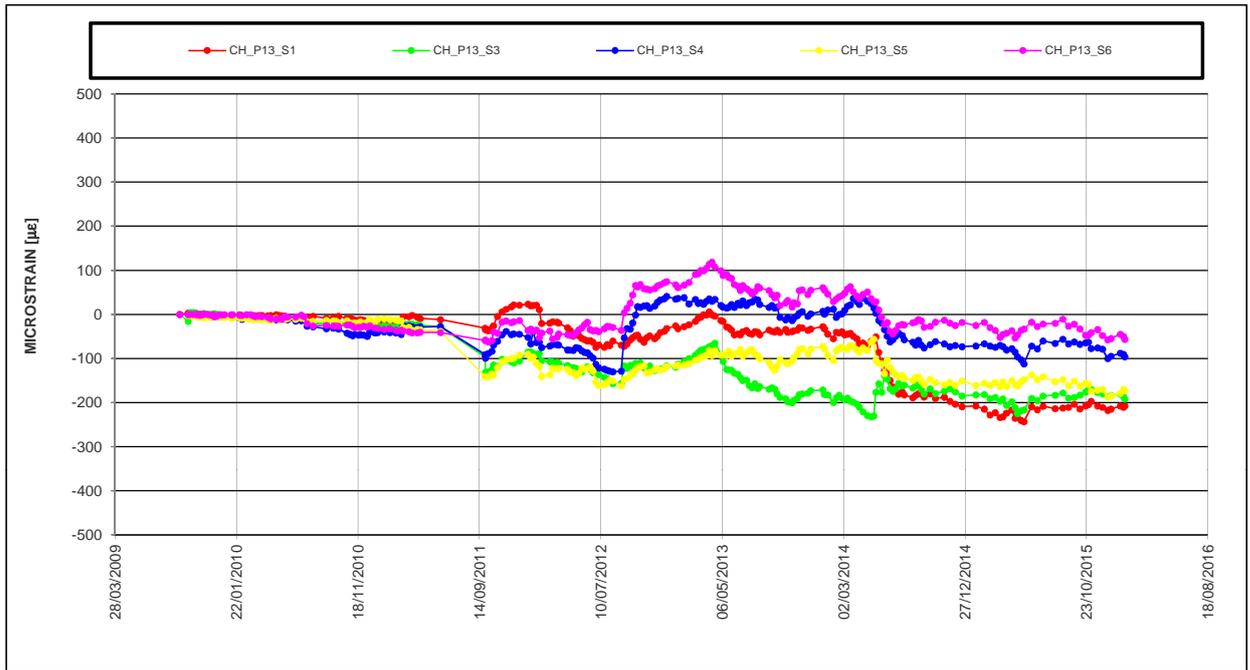
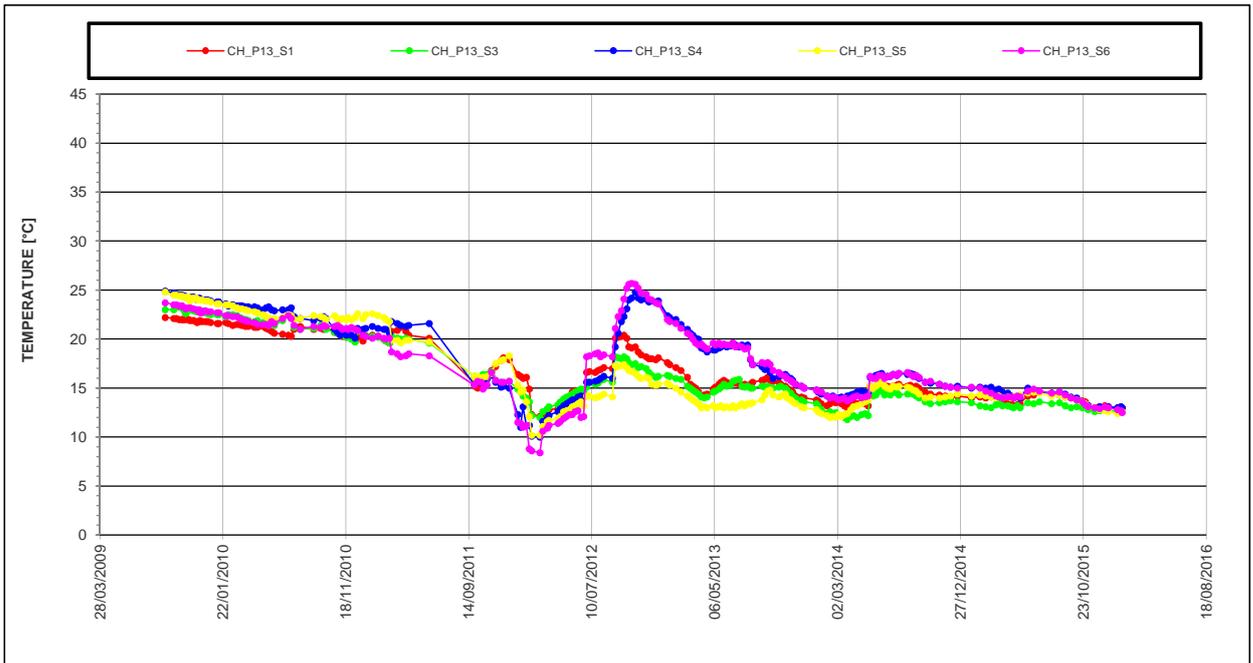
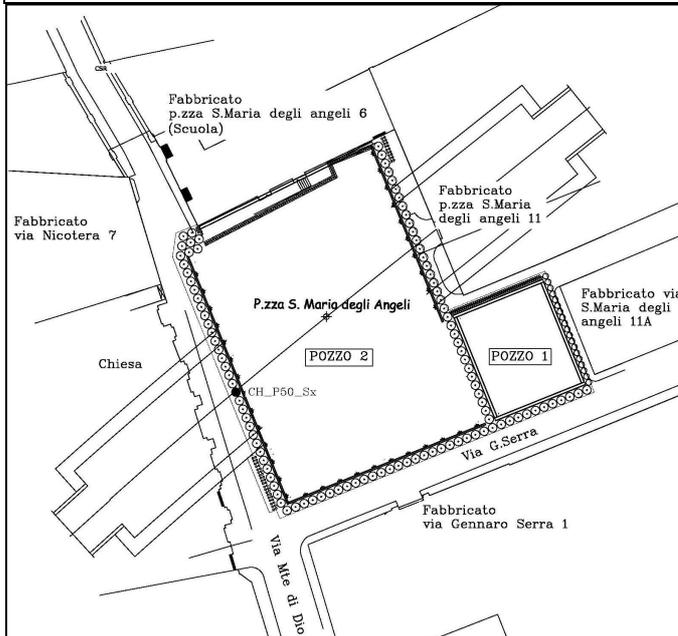


GRAFICO TEMPERATURE

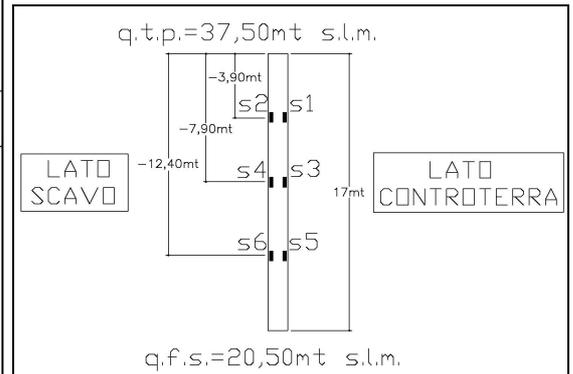


Pannello strumentato

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 252 in data 25/01/2016

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]										
200	15/5/14 10:00	-77,7	13,4	-69,6	13,0	-82,6	12,8	-70,9	11,7	21,8	13,1	-46,5	12,8
201	20/5/14 11:00	-67,2	13,6	-60,7	13,4	-74,9	13,1	-76,5	11,9	9,2	13,4	-46,9	13,1
202	27/5/14 11:00	-70,0	13,7	-74,5	13,6	-84,2	13,0	-84,7	11,9	2,7	13,2	-35,9	13,0
203	3/6/14 11:00	-75,3	13,6	-81,0	13,4	-89,9	13,2	-93,6	11,5	-7,9	13,0	-30,6	13,1
204	10/6/14 11:00	-109,8	14,1	-103,3	13,9	-109,8	13,9	-117,2	11,9	-18,4	13,8	-58,6	13,8
205	17/6/14 11:00	-111,8	14,6	-104,1	14,5	-113,5	14,6	-120,4	12,3	-27,3	14,4	-71,2	14,1
206	24/6/14 11:00	-96,4	15,2	-119,5	14,9	-123,6	15,1	-133,4	12,9	-38,7	14,8	-85,4	14,6
207	1/7/14 11:00	-100,8	15,5	-122,8	15,3	-143,1	15,5	-140,7	13,3	-39,5	15,4	-86,2	15,2
208	8/7/14 10:00	-106,5	15,7	-134,6	15,0	-128,5	15,7	-140,3	13,0	-38,7	15,8	-84,6	15,0
209	15/7/14 11:00	-101,2	15,8	-133,7	15,4	-126,0	15,9	-129,7	13,2	-40,3	16,0	-79,3	15,1
210	24/7/14 11:00	-107,7	15,6	-139,4	15,6	-136,6	15,7	-140,3	13,0	-49,7	15,9	-82,2	15,2
211	29/7/14 10:30	-102,1	15,4	-152,0	14,9	-133,8	15,6	-132,2	13,0	-44,0	15,7	-85,0	15,3
212	19/8/14 10:00	-112,6	15,2	-162,6	14,7	-144,3	15,4	-139,1	13,1	-53,3	15,6	-82,2	15,2
213	26/8/14 10:00	-111,0	15,0	-167,9	14,6	-141,5	15,3	-133,8	13,2	-56,2	15,7	-80,5	15,0
214	2/9/14 14:00	-101,3	14,8	-158,1	14,4	-141,1	15,0	-144,4	13,0	-50,5	15,5	-74,9	14,8
215	9/9/14 11:00	-111,8	14,6	-164,6	14,2	-147,6	14,8	-140,3	13,0	-55,8	15,4	-81,4	14,6
216	16/9/14 11:00	-122,4	14,4	-171,1	14,0	-154,1	14,6	-146,8	12,8	-66,3	15,2	-94,4	14,2
217	1/10/14 11:00	-111,0	14,0	-163,8	13,6	-143,9	14,1	-137,1	12,6	-48,5	15,0	-84,6	14,0
218	14/10/14 11:00	-105,3	13,8	-150,4	13,7	-137,0	14,0	-138,7	12,8	-55,0	14,8	-90,3	14,2
219	5/11/14 11:00	-115,9	13,6	-147,6	13,6	-139,9	14,1	-131,8	12,7	-61,5	14,6	-88,7	14,0
220	19/11/14 11:00	-114,3	13,4	-154,5	13,7	-145,2	14,0	-145,2	12,6	-72,0	14,4	-94,4	14,2
221	2/12/14 11:00	-109,0	13,5	-149,2	13,8	-152,1	14,1	-138,7	12,8	-66,7	14,5	-99,7	14,1
222	19/12/14 11:00	-116,7	13,2	-156,1	13,9	-161,4	14,0	-133,4	12,9	-69,6	14,6	-96,8	14,0
223	22/1/15 11:00	-122,0	13,1	-162,6	13,7	-156,1	14,1	-144,0	12,7	-74,9	14,5	-99,7	14,1
224	12/2/15 11:00	-115,1	13,0	-155,7	13,6	-152,1	14,1	-138,7	12,8	-68,0	14,4	-90,3	14,2
225	26/2/15 11:00	-122,0	13,1	-150,0	13,4	-161,4	14,0	-135,8	12,7	-78,5	14,2	-99,7	14,1
226	11/3/15 11:00	-119,2	13,0	-156,5	13,2	-154,9	14,2	-144,0	12,7	-75,7	14,1	-96,8	14,0
227	23/3/15 11:00	-112,7	13,2	-163,0	13,0	-148,4	14,4	-146,8	12,8	-69,2	14,3	-87,1	13,8
228	30/3/15 11:00	-107,4	13,3	-153,7	13,1	-145,6	14,3	-137,5	12,9	-63,9	14,4	-81,8	13,9
229	8/4/15 11:00	-102,9	13,0	-150,8	13,0	-143,9	14,1	-133,0	12,6	-70,4	14,2	-91,9	13,4
230	21/4/15 11:00	-93,6	13,1	-160,6	13,2	-149,2	14,0	-134,6	12,8	-64,7	14,0	-86,3	13,2
231	29/4/15 11:00	-98,8	13,0	-169,9	13,1	-158,6	13,9	-145,6	12,9	-71,2	13,8	-96,8	13,0
232	5/5/15 11:00	-88,3	13,2	-167,1	13,0	-163,8	13,8	-142,7	12,8	-80,6	13,7	-103,7	13,1
233	14/5/15 11:00	-78,9	13,3	-156,5	13,2	-156,9	13,7	-137,1	12,6	-72,0	13,4	-110,6	13,2
234	21/5/15 11:00	-84,2	13,2	-167,5	13,3	-151,7	13,8	-144,0	12,7	-66,4	13,2	-109,0	13,0
235	9/6/15 11:45	-102,1	13,4	-155,7	13,6	-158,2	13,6	-134,6	12,8	-72,4	13,7	-100,1	13,4
236	23/6/15 11:50	-107,4	13,3	-162,2	13,4	-165,1	13,7	-143,1	13,1	-83,4	13,8	-104,5	13,7
237	7/7/15 11:50	-94,0	13,4	-151,6	13,6	-154,1	13,6	-140,3	13,0	-77,7	13,6	-98,8	13,5
238	6/8/15 11:50	-92,3	13,2	-156,9	13,5	-163,4	13,5	-135,0	13,1	-74,9	13,5	-101,7	13,6
239	25/8/15 12:00	-87,1	13,3	-147,6	13,6	-160,6	13,4	-144,4	13,0	-72,0	13,4	-94,8	13,5
240	8/9/15 12:00	-77,7	13,4	-146,0	13,4	-154,9	13,2	-129,7	13,2	-78,5	13,2	-91,9	13,4
241	22/9/15 14:00	-93,6	13,1	-140,3	13,2	-149,2	13,0	-136,2	13,0	-76,9	13,0	-103,7	13,1
242	6/10/15 14:00	-86,7	13,0	-146,8	13,0	-152,1	13,1	-143,1	13,1	-79,8	13,1	-113,1	13,0
243	20/10/15 11:00	-73,3	13,1	-137,4	13,1	-145,2	13,0	-136,2	13,0	-76,9	13,0	-103,7	13,1
244	27/10/15 11:00	-70,4	13,0	-134,6	13,0	-141,1	13,0	-131,0	13,1	-70,4	13,2	-103,3	12,8
245	3/11/15 10:00	-64,7	12,8	-128,9	12,8	-135,8	13,1	-120,0	13,0	-63,1	12,8	-94,8	12,5
246	19/11/15 10:00	-70,0	12,7	-135,4	12,6	-133,4	13,3	-131,0	13,1	-69,6	12,6	-100,1	12,4
247	1/12/15 10:00	-67,2	12,6	-126,1	12,7	-138,7	13,2	-128,1	13,0	-64,3	12,7	-106,6	12,2
248	14/12/15 10:00	-68,8	12,8	-129,3	13,1	-128,1	13,4	-143,1	13,1	-70,0	12,9	-120,4	12,4
249	22/12/15 10:00	-74,1	12,7	-122,8	13,3	-113,1	13,3	-140,3	13,0	-67,2	12,8	-115,1	12,5
250	14/1/16 10:00	-71,2	12,6	-121,2	13,1	-123,6	13,1	-134,6	12,8	-56,2	12,7	-108,2	12,4
251	22/1/16 10:00	-68,4	12,5	-118,3	13,0	-120,8	13,0	-139,9	12,7	-53,4	12,6	-113,5	12,3
252	25/1/16 10:00	-74,1	12,7			-114,3	13,2	-134,2	12,5	-48,1	12,7	-104,1	12,4



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

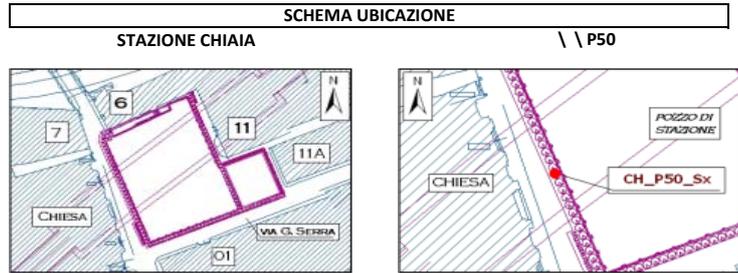


GRAFICO MICROSTRAIN

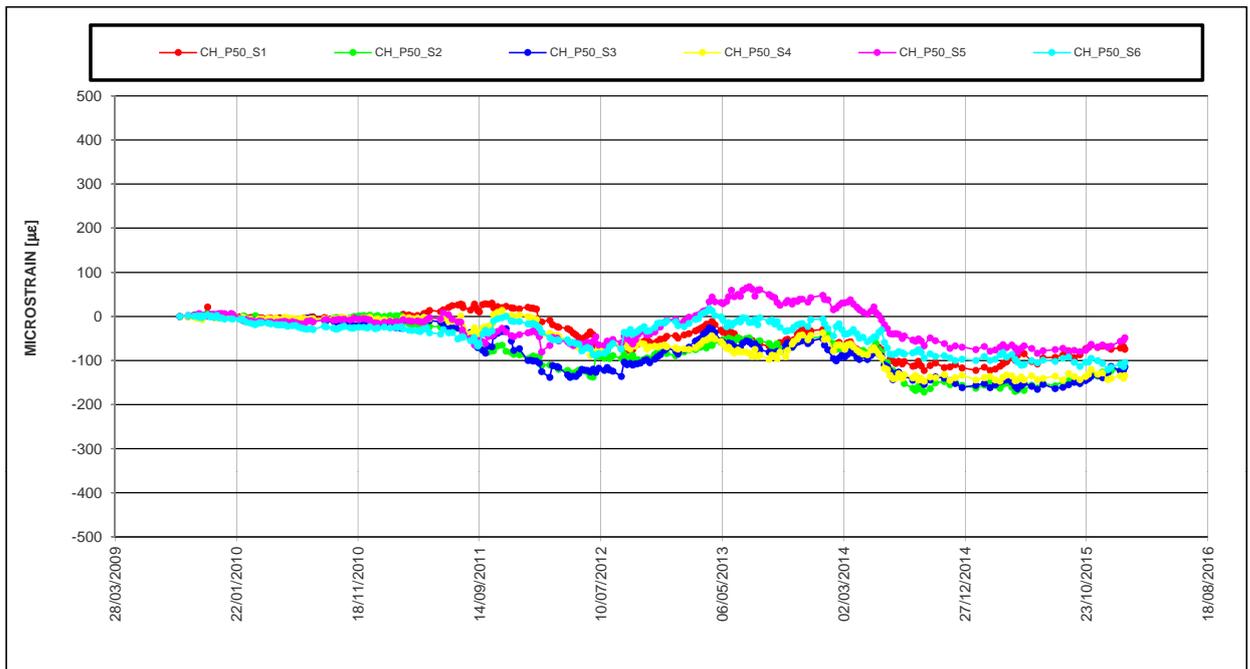
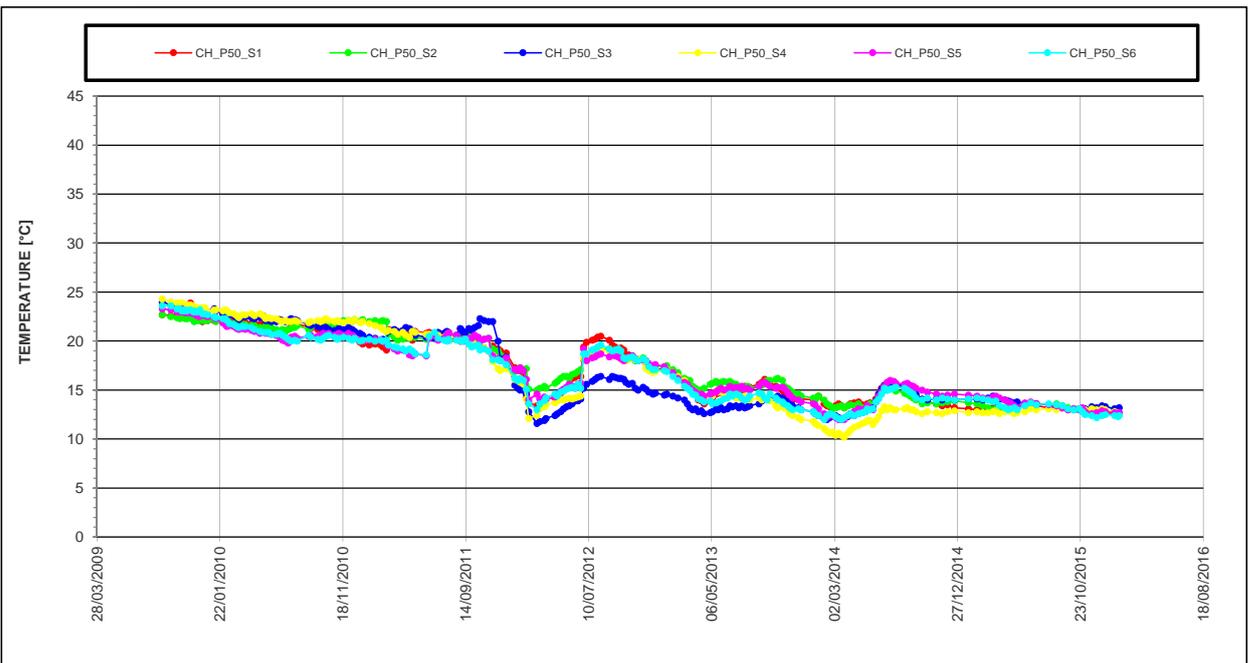
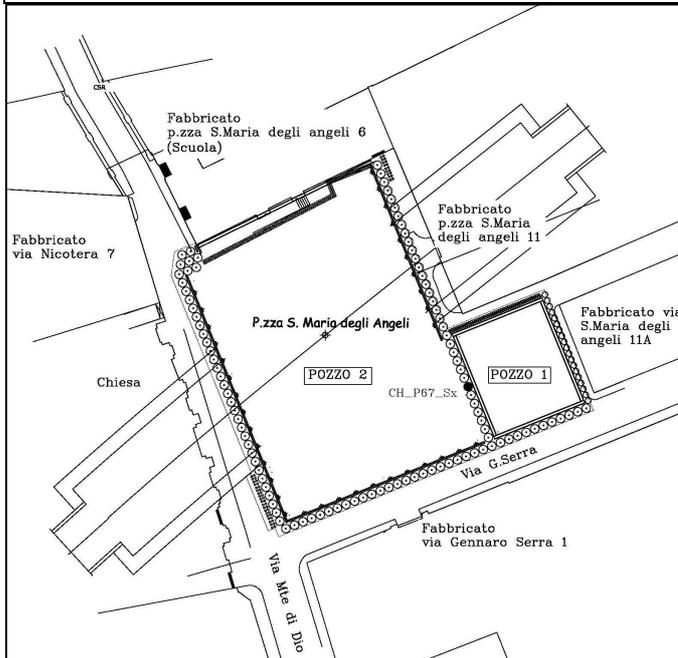


GRAFICO TEMPERATURE

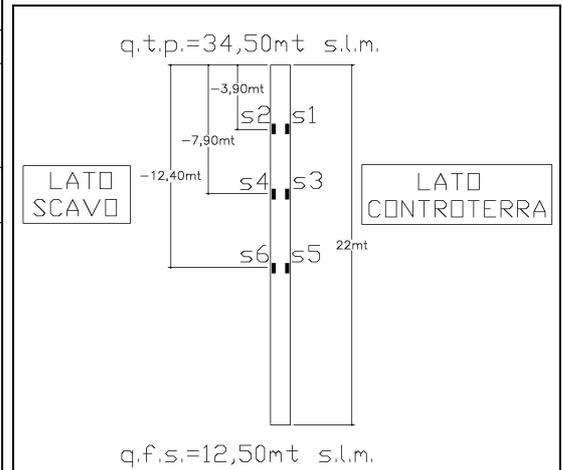


Pannello strumentato

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 256 in data 25/01/2016

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]										
204	15/5/14 11:00			-203,3	12,2	-86,7	12,0	-165,1	12,2	-27,0	13,9	-102,9	13,0
205	20/5/14 11:00			-210,6	12,6	-61,5	12,4	-144,0	12,6	-40,8	14,1	-76,5	13,5
206	27/5/14 11:00			-205,3	12,7	-76,6	12,5	-150,9	12,7	-37,9	14,0	-76,1	13,2
207	3/6/14 11:00			-216,3	12,8	-83,5	12,6	-160,6	12,9	-39,6	14,2	-86,7	13,0
208	10/6/14 11:00			-235,8	13,2	-108,2	12,9	-188,2	13,3	-64,7	14,8	-94,0	13,4
209	17/6/14 11:00			-237,8	13,7	-96,4	14,2	-190,3	13,8	-68,0	15,2	-96,0	13,9
210	24/6/14 11:00			-254,0	13,7	-118,0	14,1	-194,7	14,1	-84,2	15,2	-103,3	14,3
211	1/7/14 11:00			-267,8	13,9	-128,9	14,2	-205,7	14,2	-94,8	15,0	-109,0	14,5
212	8/7/14 10:00			-262,2	13,7	-131,8	14,3	-201,6	14,2	-101,7	15,1	-114,3	14,4
213	15/7/14 11:00			-271,9	13,9	-142,7	14,4	-191,1	14,4	-104,5	15,2	-103,7	14,6
214	24/7/14 11:00			-277,2	13,8	-141,1	14,2	-200,4	14,3	-98,9	15,0	-102,1	14,4
215	29/7/14 10:30			-271,5	13,6	-135,4	14,0	-207,3	14,4	-97,6	15,1	-96,4	14,2
216	19/8/14 10:30			-280,9	13,5	-134,2	14,1	-205,7	14,2	-107,0	15,0	-102,9	14,0
217	26/8/14 10:30			-278,0	13,4	-137,1	14,2	-200,4	14,3	-92,4	15,2	-92,4	14,2
218	2/9/14 14:00			-268,3	13,2	-139,9	14,3	-191,1	14,4	-86,7	15,0	-98,9	14,0
219	9/9/14 11:00			-278,8	13,0	-139,5	14,0	-203,3	14,4	-102,9	14,0	-101,7	14,1
220	16/9/14 11:00			-289,4	12,8	-148,8	13,9	-212,2	14,0	-117,6	13,8	-111,1	14,0
221	1/10/14 11:00			-283,7	12,6	-140,3	13,6	-209,0	13,6	-96,8	13,5	-99,7	13,6
222	14/10/14 11:00			-286,5	12,7	-143,2	13,7	-202,0	13,5	-91,6	13,6	-90,3	13,7
223	5/11/14 11:00			-279,6	12,6	-133,8	13,8	-207,7	13,7	-102,1	13,4	-88,7	13,5
224	19/11/14 11:00			-281,3	12,8	-140,3	13,6	-206,1	13,5	-100,5	13,2	-79,4	13,6
225	2/12/14 11:00			-286,5	12,7	-145,6	13,5	-200,8	13,6	-97,7	13,1	-73,7	13,4
226	19/12/14 11:00			-291,8	12,6	-152,5	13,6	-210,2	13,5	-100,5	13,2	-80,2	13,2
227	22/1/15 11:00			-286,1	12,4	-159,0	13,4	-215,5	13,4	-98,9	13,0	-86,7	13,0
228	12/2/15 11:00			-280,9	12,5	-152,1	13,3	-213,8	13,2	-89,5	13,1	-89,5	13,1
229	26/2/15 11:00			-294,3	12,4	-158,6	13,1	-224,4	13,0	-94,8	13,0	-98,9	13,0
230	11/3/15 11:00			-289,0	12,5	-151,7	13,0	-219,1	13,1	-88,3	13,2	-93,6	13,1
231	23/3/15 11:00			-294,3	12,4	-158,6	13,1	-224,4	13,0	-94,8	13,0	-90,8	13,0
232	30/3/15 11:00			-283,7	12,6	-155,8	13,0	-213,8	13,2	-88,3	13,2	-80,2	13,2
233	8/4/15 11:00			-271,9	12,9	-145,2	13,2	-220,3	13,0	-77,8	13,4	-74,5	13,0
234	21/4/15 11:00			-265,0	12,8	-143,6	13,0	-215,1	13,1	-68,0	13,2	-68,0	13,2
235	29/4/15 11:00			-274,4	12,7	-150,5	13,1	-220,3	13,0	-78,6	13,0	-78,6	13,0
236	5/5/15 11:00			-287,8	12,6	-154,5	13,1	-222,0	13,2	-85,9	13,4	-88,3	13,2
237	14/5/15 11:00			-289,4	12,8	-159,8	13,0	-226,4	13,5	-80,2	13,2	-98,9	13,0
238	21/5/15 11:00			-284,1	12,9	-166,7	13,1	-221,1	13,6	-85,5	13,1	-93,6	13,1
239	9/6/15 11:45			-282,5	12,7	-158,2	12,8	-216,7	13,3	-94,0	13,4	-83,9	12,9
240	23/6/15 11:50			-288,2	12,9	-161,0	12,9	-231,3	13,1	-88,7	13,5	-81,0	12,8
241	7/7/15 11:50			-277,6	13,1	-150,5	13,1	-222,0	13,2	-79,4	13,6	-65,2	13,1
242	6/8/15 11:50			-280,4	13,2	-157,4	13,2	-220,3	13,0	-89,9	13,4	-74,5	13,0
243	25/8/15 11:00			-275,2	13,3	-152,1	13,3	-213,8	13,2	-83,4	13,6	-69,2	13,1
244	8/9/15 11:00			-285,7	13,1	-150,5	13,1	-220,3	13,0	-77,8	13,4	-55,8	13,2
245	22/9/15 14:00			-282,9	13,0	-147,6	13,0	-218,7	12,8	-76,1	13,2	-50,1	13,0
246	6/10/15 14:00			-281,3	12,8	-157,0	12,9	-229,3	12,6	-82,6	13,0	-61,1	13,1
247	20/10/15 11:00			-266,2	12,7	-146,0	12,8	-243,9	12,4	-93,6	13,1	-58,3	13,0
248	27/10/15 11:00			-252,8	12,8	-140,7	12,9	-242,3	12,2	-78,6	13,0	-52,6	12,8
249	3/11/15 10:00			-247,1	12,6	-137,9	12,8	-240,7	12,0	-69,2	13,1	-42,8	12,6
250	19/11/15 10:00			-245,5	12,4	-136,3	12,6	-246,3	12,2	-74,5	13,0	-49,3	12,4
251	1/12/15 10:00			-240,2	12,5	-131,0	12,7	-241,1	12,3	-79,8	12,9	-40,0	12,5
252	14/12/15 10:00			-235,0	12,6	-121,6	12,8	-248,0	12,4	-93,6	13,1	-44,5	12,8
253	22/12/15 10:00			-237,8	12,7	-118,8	12,7	-245,1	12,3	-90,8	13,0	-41,6	12,7
254	14/1/16 10:00			-226,8	12,6	-111,9	12,6	-238,2	12,2	-85,1	12,8	-30,6	12,6
255	22/1/16 10:00			-236,2	12,5	-113,1	12,5	-241,1	12,3	-90,4	12,7	-35,9	12,5
256	25/1/16 10:00			-241,9	12,7	-106,6	12,7	-231,7	12,4	-83,9	12,9	-26,6	12,6



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

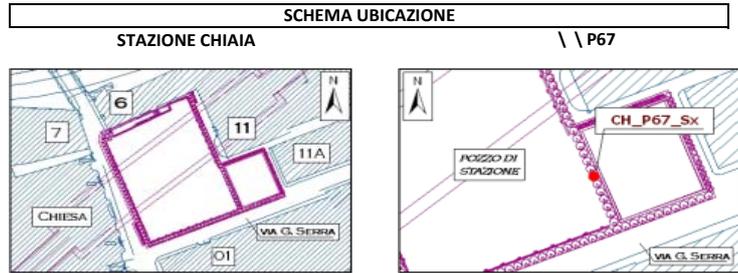


GRAFICO MICROSTRAIN

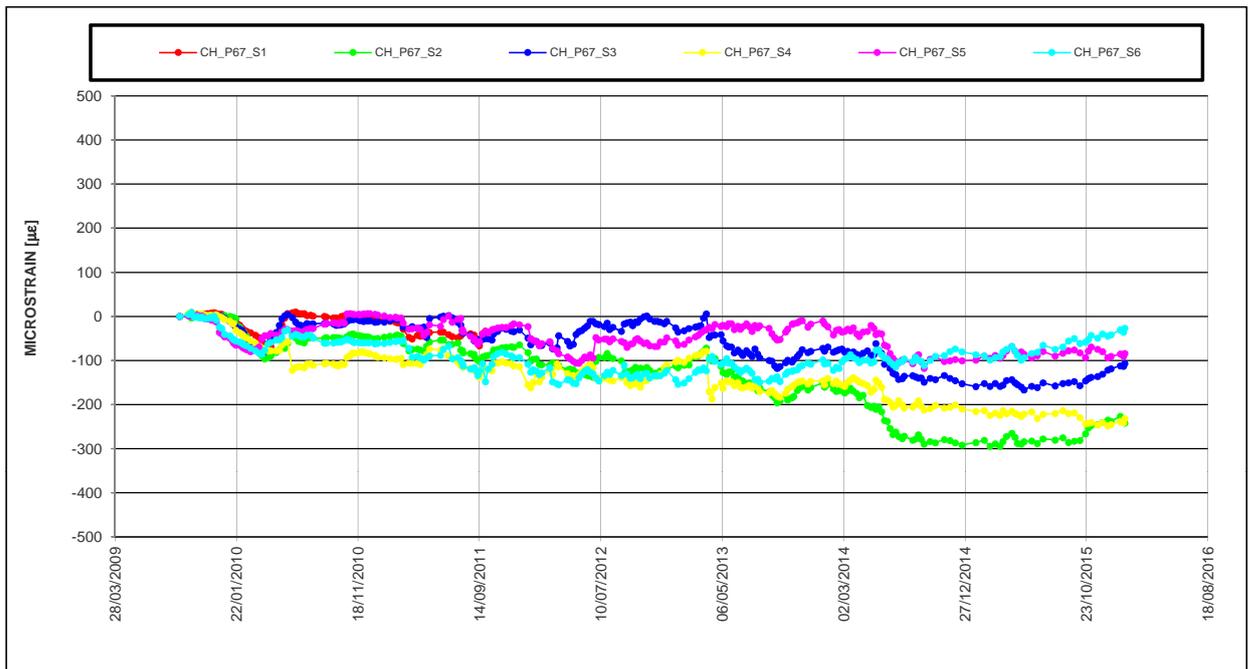
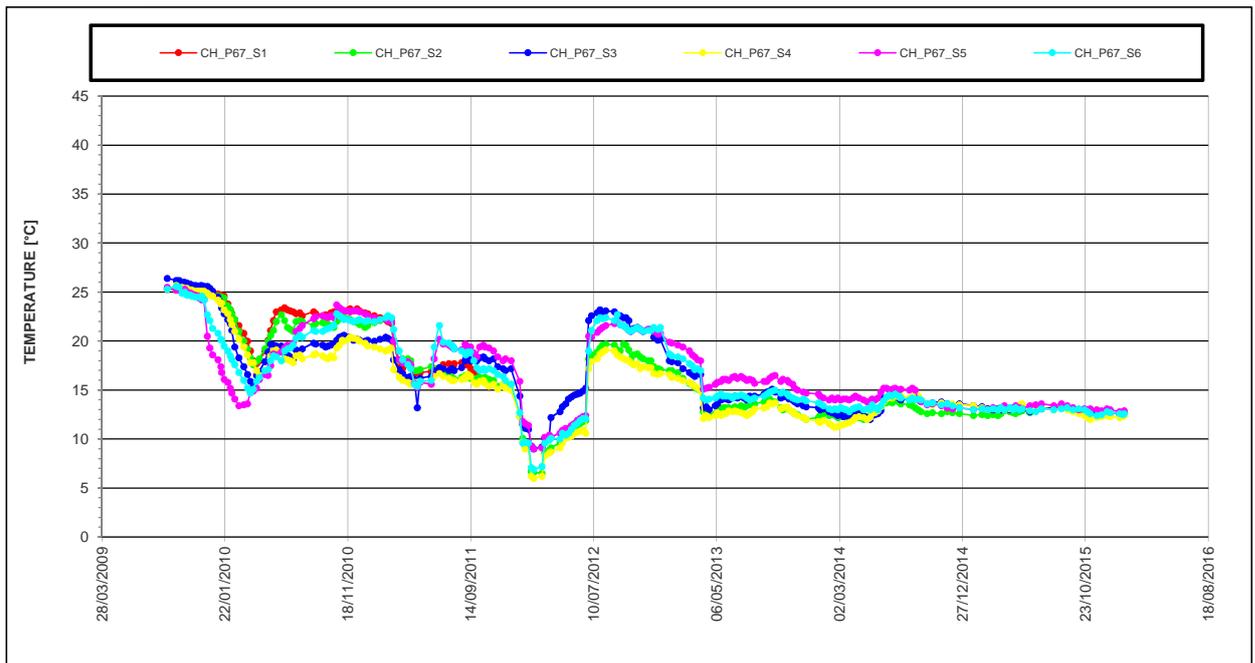
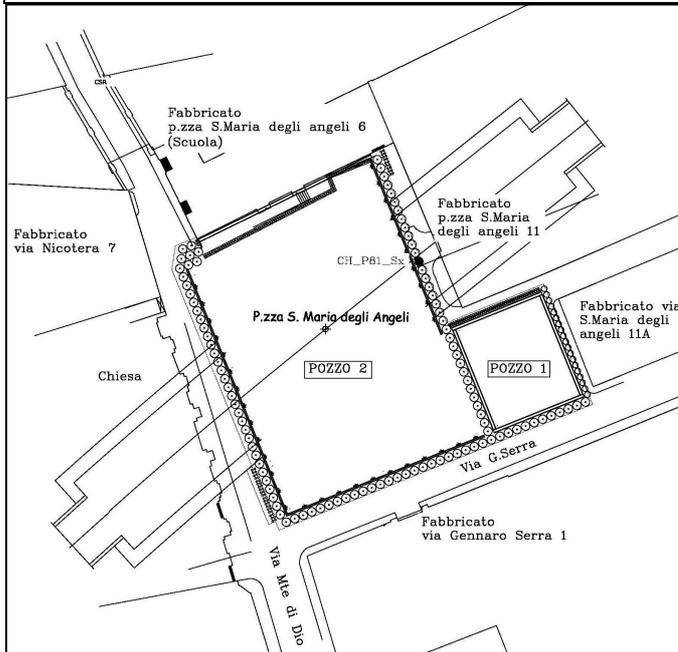


GRAFICO TEMPERATURE

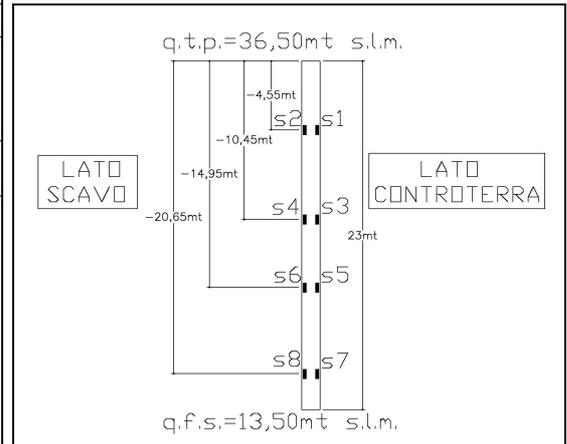


Pannello strumentato

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.

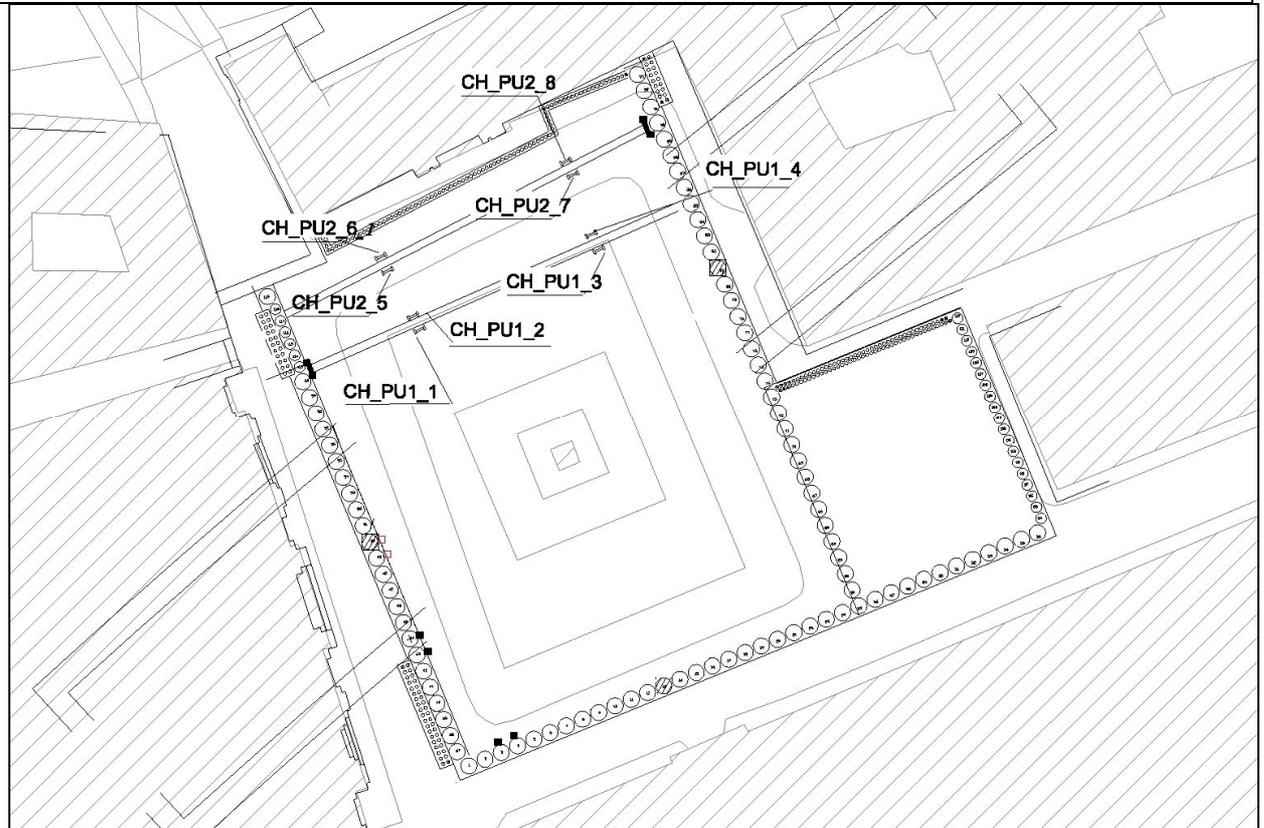
La barretta estensimetrica a c.v. CH_P81_S4 dalla data 25/03/10 non restituisce segnale

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_PU1_3 risulta danneggiata e non restituisce valore.

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 166 in data 25/01/2016

Letture n°	DATA	CH_PU1_S1		CH_PU1_S2		CH_PU1_S3		CH_PU1_S4	
		Micro strain [µε]	Temp. [°C]						
114	15/5/14 10:00	-99,6	14,0	-132,9	14,4	-76,8	14,2	-79,7	14,1
115	20/5/14 11:00	-59,3	16,3	-118,2	16,6	-81,7	16,8	-93,4	16,3
116	27/5/14 11:00	-64,2	16,9	-110,5	16,9	-79,6	17,3	-94,2	16,9
117	3/6/14 11:00	-67,4	17,3	-110,9	17,2	-80,4	17,9	-95,0	17,5
118	10/6/14 11:00	-72,3	17,9	-118,6	17,9	-67,4	18,3	-110,5	17,9
119	16/6/14 11:00	-31,3	18,6	-96,3	18,4	-53,6	19,1	-73,5	18,6
120	24/6/14 11:00	-31,7	18,9	-99,5	18,8	-60,9	19,5	-80,0	19,4
121	1/7/14 10:00	-40,6	19,5	-104,4	19,4	-72,3	19,9	-82,0	19,9
122	8/7/14 10:30	-1,9	26,0	-47,8	25,7	-19,8	26,2	-32,4	26,3
123	15/7/14 11:30	3,4	26,1	-53,5	25,9	-29,5	26,4	-40,9	26,6
124	24/7/14 11:30	-1,9	26,0	-56,3	26,0	-23,8	26,2	-47,8	26,7
125	29/7/14 11:30	-0,3	26,8	-62,0	27,2	-21,0	27,1	-52,7	27,3
126	19/8/14 11:00	3,0	26,4	-56,3	27,0	-20,6	26,8	-50,6	26,8
127	26/8/14 11:00	6,2	26,0	-45,0	26,6	-11,7	26,2	-45,8	26,2
128	2/9/14 14:00	16,0	25,8	-35,2	26,4	-4,4	25,8	-38,5	25,8
129	9/9/14 11:00	5,4	25,6	-47,0	26,1	-19,0	25,6	-49,0	25,6
130	16/9/14 12:00	5,8	25,3	-64,5	25,0	-30,8	25,3	-59,6	25,4
131	1/10/14 12:00	6,2	25,0	-61,2	24,6	-20,6	24,8	-51,1	25,1
132	14/10/14 12:00	-7,6	24,2	-49,0	24,6	-11,7	24,2	-47,4	24,4
133	5/11/14 11:00	0,1	23,5	-46,6	23,8	-2,8	23,6	-40,9	23,6
134	19/11/14 13:30	7,4	23,1	-69,4	21,6			-22,3	22,8
135	2/12/14 12:30	4,5	23,2	-75,9	21,4			-23,1	22,4
136	19/12/14 12:30	-6,0	23,0	-81,6	21,6			-29,6	22,2
137	22/1/15 12:30	-15,0	22,6	-79,6	21,1			-40,2	21,0
138	12/2/15 12:30	-17,8	21,7	-77,1	20,3			-14,6	20,1
139	24/2/15 12:30	-33,7	21,4	-68,6	20,0			-23,9	20,0
140	11/3/15 12:00	-42,6	21,0	-88,9	19,0			-21,1	19,9
141	23/3/15 12:00	-51,5	20,6	-83,7	19,1			-35,7	19,7
142	30/3/15 12:00	-58,0	20,4	-78,4	19,2			-46,3	19,5
143	8/4/15 12:00	-60,1	19,9	-68,2	18,7			-34,9	19,1
144	21/4/15 12:00	-54,4	19,7	-61,3	18,6			-32,1	19,0
145	29/4/15 12:00	-74,3	19,4	-67,8	18,4			-39,0	19,1
146	5/5/15 12:00	-69,8	19,1	-78,4	18,2			-46,7	18,8
147	14/5/15 12:00	-87,3	19,0	-84,9	18,0			-39,8	18,7
148	21/5/15 12:00	-84,5	18,9	-95,5	17,8			-45,1	18,6
149	9/6/15 10:00	-71,4	22,3	-79,9	23,4			-29,6	22,2
150	22/6/15 10:00	7,0	26,4	-37,7	26,2			17,6	26,4
151	7/7/15 12:00	44,0	29,1	16,4	29,3			52,6	29,6
152	6/8/15 12:00	55,0	29,0	9,9	29,1			55,4	29,5
153	25/8/15 11:00	43,6	29,4	7,1	29,2			61,1	29,3
154	8/9/15 11:00	45,3	29,2	-3,5	29,0			57,0	28,3
155	22/9/15 14:00	44,4	28,8	5,0	28,7			65,5	28,0
156	6/10/15 14:00	40,0	28,1	1,8	27,1			69,6	27,0
157	20/10/15 11:00	25,7	27,6	-13,7	26,5			68,0	26,2
158	27/10/15 11:00	11,5	26,1	-21,4	25,2			72,8	25,6
159	3/11/15 10:00	-0,7	24,1	-8,4	24,6			83,4	24,8
160	19/11/15 10:00	-24,7	20,8	-26,8	21,1			55,7	21,2
161	1/12/15 10:00	-32,1	19,2	-26,4	19,8			49,6	19,7
162	10/12/15 10:00	-71,5	15,3	-118,2	15,6			-92,2	15,4
163	22/12/15 10:00	-80,9	14,2	-126,0	14,3			-102,8	14,2
164	14/1/16 10:00	-91,4	14,0	-125,6	14,0			-115,8	13,8
165	22/1/16 10:00	-117,9	12,5					-134,5	12,6
166	25/1/16 10:00	-102,4	12,1					-132,5	13,1



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

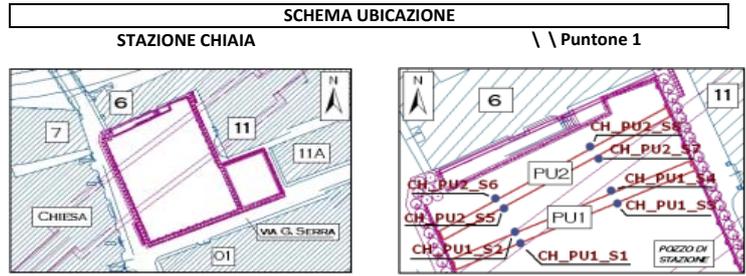


GRAFICO MICROSTRAIN

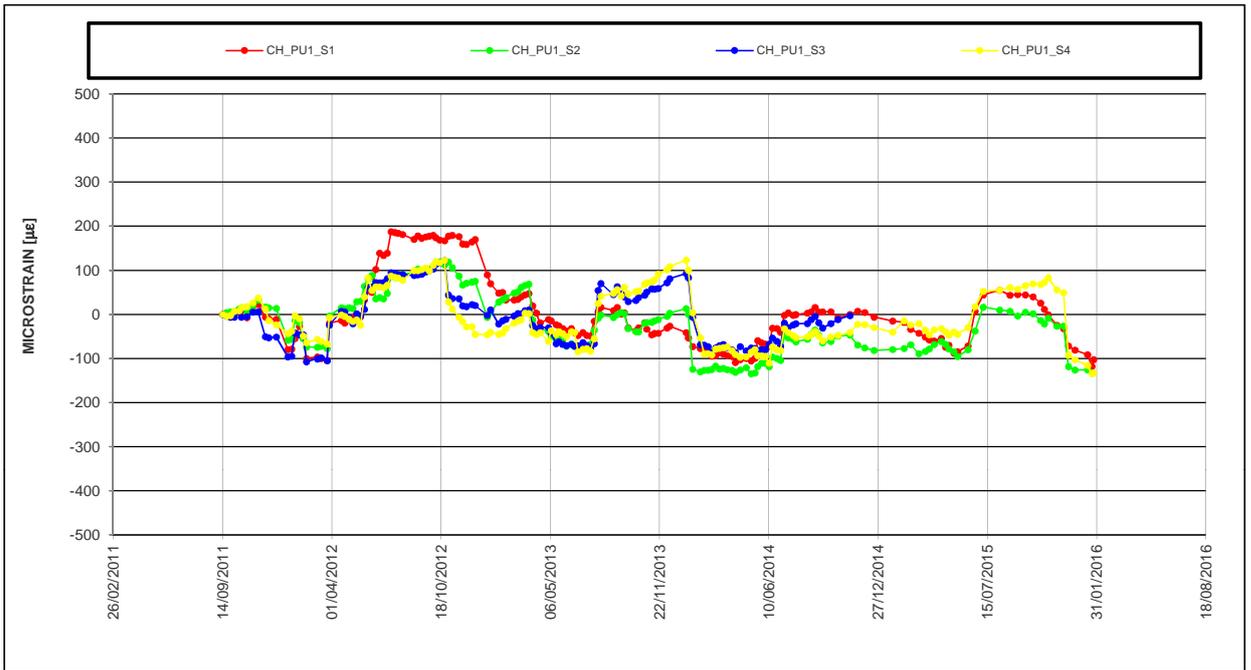
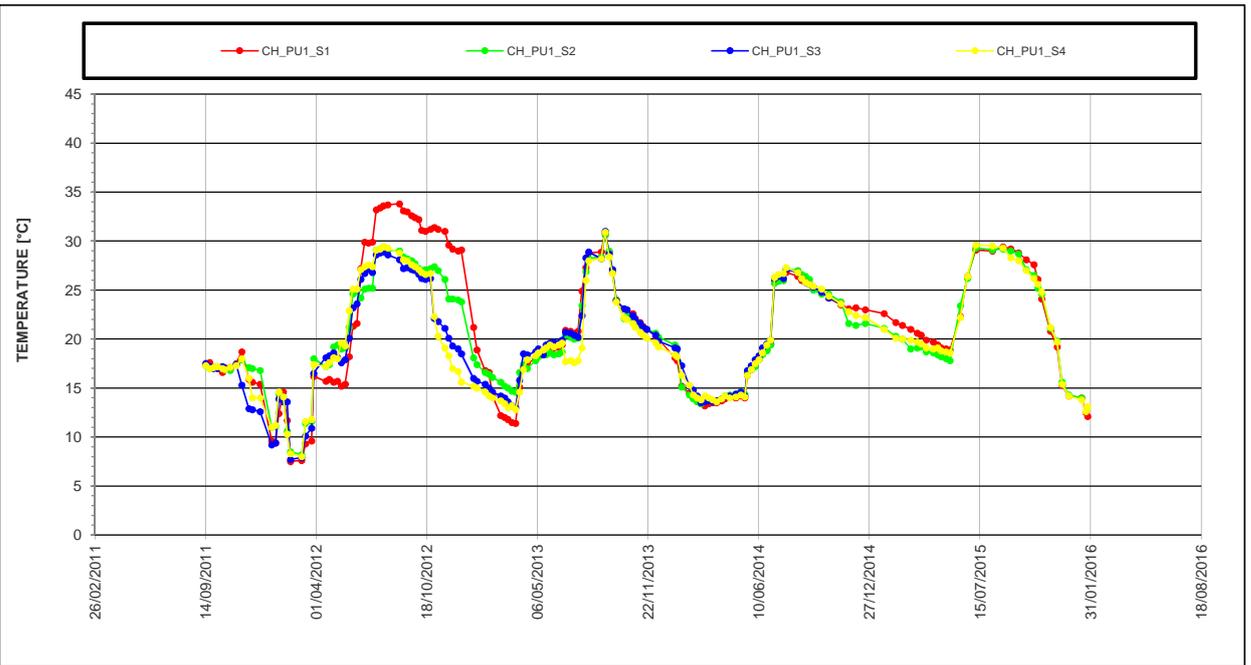


GRAFICO TEMPERATURE



TABULATI

Ubicazione STAZIONE CHIAIA

Opera \ \ Puntone 2

Strumento Barretta Est. per Metallo

Data posa in opera 14/09/2011

Data lettura di zero 14/09/2011

Ultima Misura 167 in data 25/01/2016

Letture n°	DATA	CH_PU2_S5		CH_PU2_S6		CH_PU2_S6_1		CH_PU2_S7		CH_PU2_S8	
		Micro strain [µε]	Temp. [°C]								
115	15/5/14 10:00	-94,3	15,7			-160,5	13,1	-170,7	14,2	-121,1	14,3
116	20/5/14 11:00	-120,7	17,2			-44,7	15,6	-132,0	16,7	-58,1	16,8
117	27/5/14 11:00	-120,2	17,9			-41,5	16,2	-128,8	17,3	-57,7	17,5
118	3/6/14 11:00	-111,3	18,3			-41,1	16,9	-141,8	17,9	-62,6	18,1
119	10/6/14 11:00	-121,4	18,8			-47,1	17,4	-134,4	18,5	-58,1	18,8
120	16/6/14 11:00	-101,9	19,4			-17,9	17,8	-101,5	19,2	-22,7	19,7
121	24/6/14 11:00	-112,1	19,9			-36,2	18,3	-110,5	19,8	-39,8	20,3
122	1/7/14 10:00	-111,3	20,3			-38,2	18,8	-110,0	20,5	-52,4	20,6
123	8/7/14 10:30	-76,7	25,8			-7,2	24,0	-73,8	25,8	-28,3	24,9
124	15/7/14 11:30	-87,6	25,9			-11,7	24,3	-84,8	25,9	-35,2	25,0
125	24/7/14 11:30	-94,5	26,0			-2,8	24,7	-78,3	26,1	-35,6	25,3
126	29/7/14 11:30	-91,7	26,9			5,8	26,4	-81,1	27,2	-25,5	26,8
127	19/8/14 11:00	-88,4	26,5			6,2	26,1	-77,9	26,8	-15,7	26,6
128	26/8/14 11:00	-105,5	26,1			-12,5	25,9	-97,4	26,2	-14,9	26,0
129	2/9/14 14:00	-105,1	25,8			-6,4	25,4	-107,9	26,0	-11,7	25,6
130	9/9/14 11:00	-115,7	25,6			-4,8	25,2	-98,2	25,8	-10,1	25,4
131	16/9/14 12:00	-126,2	25,4			-15,3	25,0	-119,3	25,4	-20,6	25,2
132	1/10/14 12:00	-114,9	25,0			-8,0	24,6	-110,8	25,1	-18,6	24,7
133	14/10/14 12:00	-104,7	24,5			-2,0	24,1	-101,9	24,5	-5,6	24,1
134	5/11/14 11:00	-91,7	23,9			4,1	23,6	-94,2	23,8	-0,7	23,5
135	19/11/14 13:30	-138,5	22,4			6,2	23,1	-78,3	23,1	9,4	23,0
136	2/12/14 12:30	-146,6	22,4			13,9	23,4	-62,5	23,4	7,4	22,5
137	19/12/14 12:30	-139,7	22,3			3,3	23,2	-73,0	23,2	-1,6	22,1
138	22/1/15 12:30	-151,5	22,0			-15,4	22,0	-79,5	23,0	-19,0	21,0
139	12/2/15 12:30	-134,0	21,1			-6,1	21,1	-60,9	22,2	-4,4	20,2
140	24/2/15 12:30	-144,2	20,6			-17,4	20,5	-67,4	22,0	-9,7	20,1
141	11/3/15 12:00	-147,4	20,0			-15,4	20,0	-81,2	21,2	-15,0	20,0
142	23/3/15 12:00	-158,0	19,8			-22,3	20,1	-82,8	21,4	-21,5	19,8
143	30/3/15 12:00	-155,1	19,7			-19,5	20,0	-77,1	21,2	-13,4	19,8
144	8/4/15 12:00	-145,4	19,5			-17,5	19,5	-69,8	20,8	-26,4	19,4
145	21/4/15 12:00	-151,9	19,3			-22,7	19,4	-64,1	20,6	-21,1	19,5
146	29/4/15 12:00	-159,6	19,0			-33,3	19,2	-73,1	20,2	-31,3	19,0
147	5/5/15 12:00	-170,2	18,8			-31,7	19,0	-83,7	20,0	-41,8	18,8
148	14/5/15 12:00	-173,0	18,9			-31,3	18,7	-94,2	19,8	-52,4	18,6
149	21/5/15 12:00	-183,6	18,7			-40,6	18,6	-100,7	19,6	-42,6	18,4
150	9/6/15 10:00	-164,9	22,9			-41,4	22,2	-111,2	23,4	-22,3	23,4
151	22/6/15 10:00	-110,0	26,4			-40,6	20,6	-39,7	27,6	18,8	25,1
152	7/7/15 12:00	-46,6	29,6			-5,7	20,8	19,3	31,1	63,1	27,4
153	6/8/15 12:00	-51,8	29,5			-12,2	20,6	22,1	31,0	56,6	27,2
154	25/8/15 11:00	-58,7	29,6			-13,4	21,5	27,4	31,1	61,9	28,3
155	8/9/15 11:00	-51,4	29,2			-14,2	21,1	30,6	30,7	70,4	28,0
156	22/9/15 14:00	-39,2	29,2			-5,7	20,8	19,2	29,1	77,7	27,6
157	6/10/15 14:00	-48,6	27,1			-17,1	19,2	24,5	28,2	71,6	26,1
158	20/10/15 11:00	-50,3	26,3			-20,3	18,6	23,3	27,1	48,0	25,5
159	27/10/15 11:00	-49,5	25,7			-10,2	18,1	22,0	26,0	39,1	24,1
160	3/11/15 10:00	-42,6	24,6			2,4	17,8	19,2	24,1	32,2	22,2
161	19/11/15 10:00	-62,5	21,3			6,9	16,5	-8,9	20,8	15,5	19,5
162	1/12/15 10:00	-56,8	20,1			8,5	15,3	-25,6	18,1	11,0	17,8
163	10/12/15 10:00	-118,2	15,4			-83,3	14,1	-130,0	15,2	-54,5	16,1
164	22/12/15 10:00	-125,2	14,5			-79,7	13,4	-145,1	14,3	-80,5	14,3
165	14/1/16 10:00	-121,9	14,1			-79,3	13,1	-141,8	13,9	-79,7	13,7
166	22/1/16 10:00	-137,0	13,2			-94,7	12,5	-165,0	13,0	-95,1	13,1
167	25/1/16 10:00	-156,9	13,9			-85,0	13,3	-176,0	13,1	-110,5	13,5



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

SCHEMA UBICAZIONE

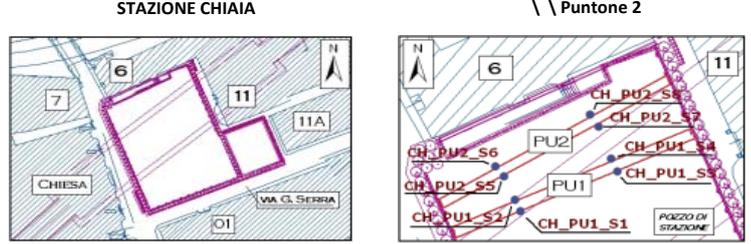


GRAFICO MICROSTRAIN

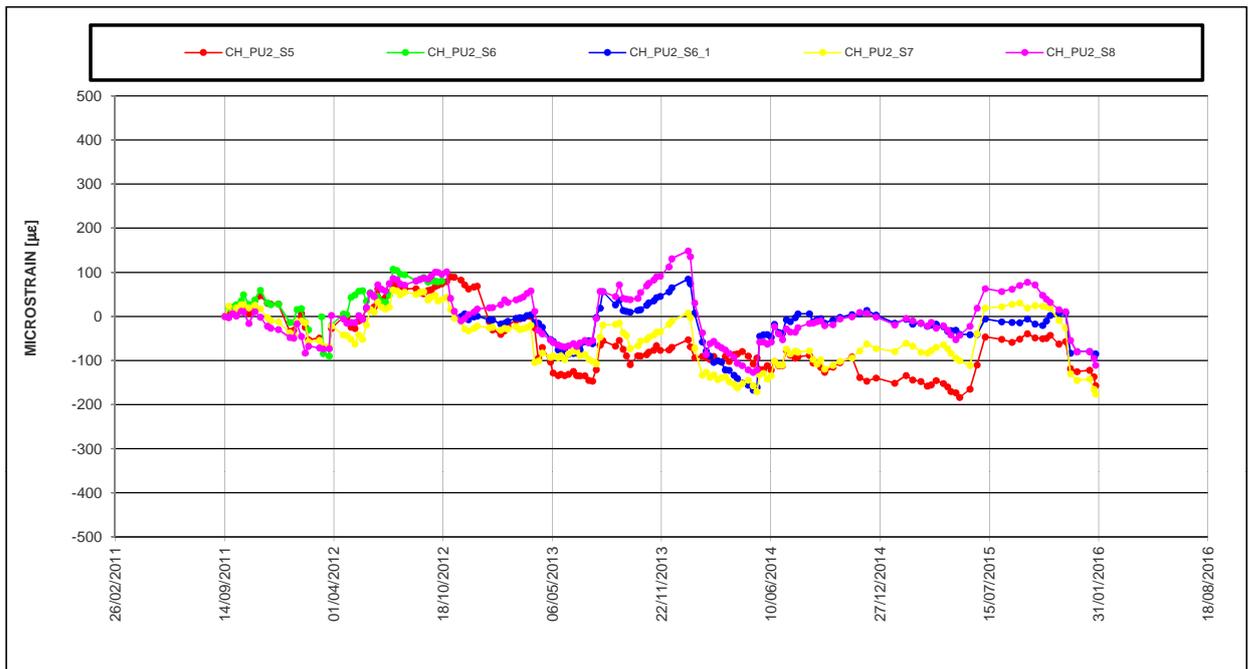
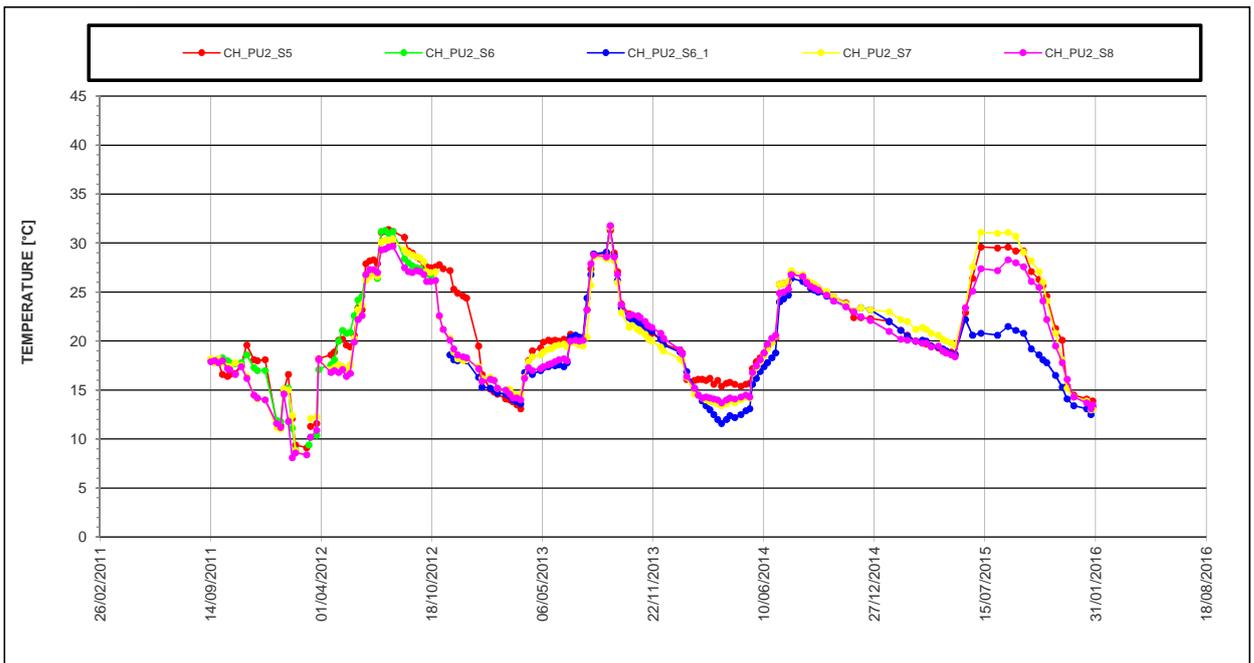


GRAFICO TEMPERATURE



 <p>Ansaldo STS A Finmeccanica Company</p>	<p>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</p> <p><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO</i></p> <p><i>REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C I 48 Data: 29/01/16 Metropolit. di Napoli A.T.I. LM6 TreEsse Engineering S.r.l.</p>
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9. MISURE GEOTECNICHE – CELLE DI CARICO TOROIDALI

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

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

 <p>Ansaldo STS A Finmeccanica Company</p>	<p>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</p> <p><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO</i></p> <p><i>REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C I 48 Data: 29/01/16 Metropolit. di Napoli A.T.I. LM6 TreEsse Engineering S.r.l.</p>
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Tabelle riepilogative per le Celle di Carico toroidali installate in cantiere.

Tabella Celle di Carico Primo Ordine di Tiranti

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

Tabella Celle di Carico Secondo Ordine di Tiranti

NOME	TIPOLOGIA STRUMENTO	DATA INSTALLAZIONE	DISPONIBILITA' LETTURA			NOTE
			DATA LETTURA DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
SECONDO ORDINE DI TIRANTI						
CH_CC5	CC. TOROIDALI	02/08/11	02/08/11			
CH_CC6	CC. TOROIDALI	02/08/11	02/08/11			
CH_CC7	CC. TOROIDALI	16/05/11	19/07/11			
CH_CC8	CC. TOROIDALI	16/05/11	19/07/11	24/06/15		(*) non restituisce valore
CH_CC9	CC. TOROIDALI	02/04/12	02/04/12	22/01/16		(*) non restituisce valore

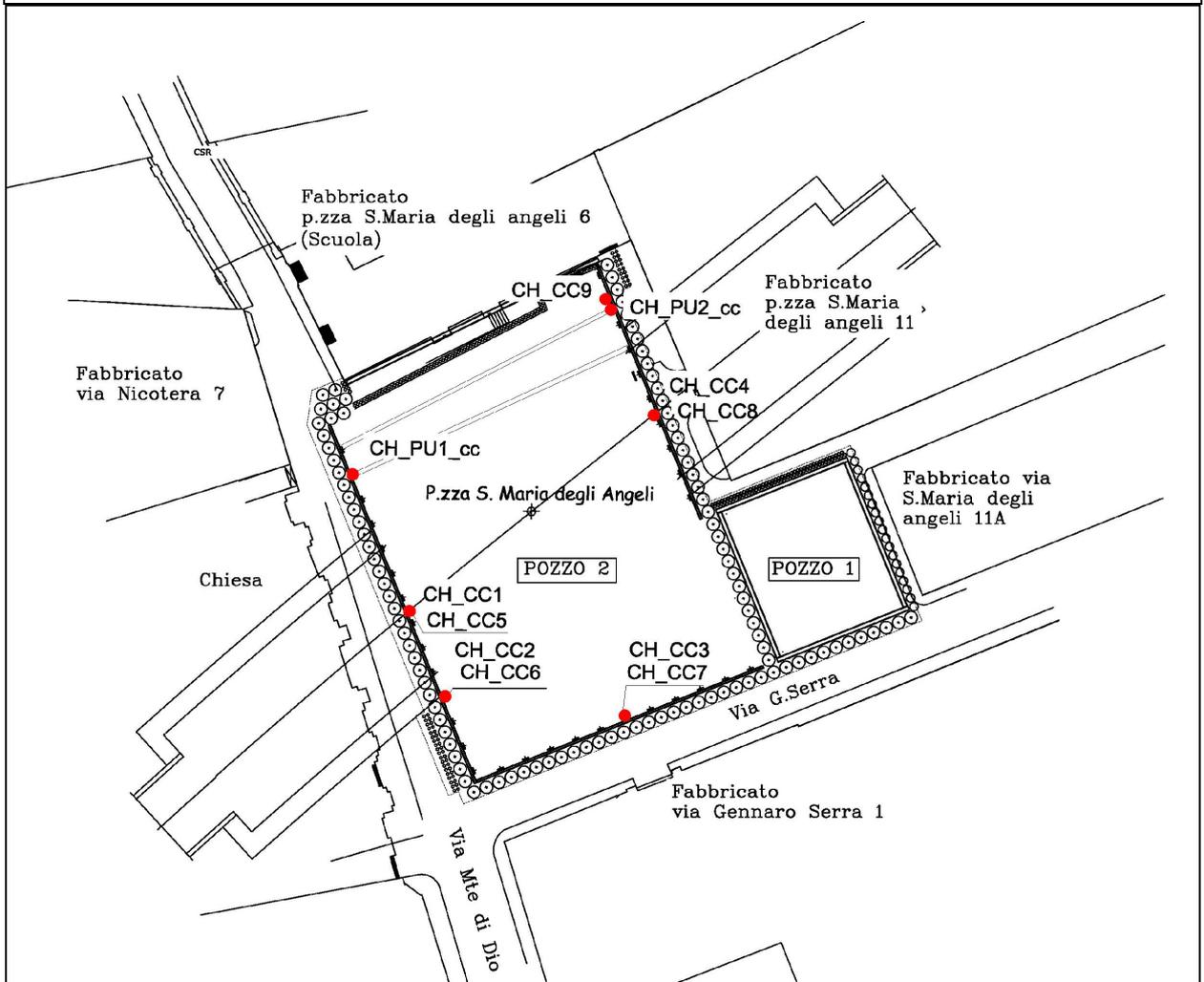
Tabella Celle di Carico Puntoni

NOME	TIPOLOGIA STRUMENTO	DATA INSTALLAZIONE	DISPONIBILITA' LETTURA			NOTE
			DATA LETTURA DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
PUNTONI						
CH_PU1_CC	CC. TOROIDALI	14/09/11	14/09/11	09/06/15-22/01/16		
CH_PU2_CC	CC. TOROIDALI	14/09/11	14/09/11			

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

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

La cella di carico CH_CC8 non restituisce valore dal 24/06/15

La cella di carico CH_CC9 non restituisce valore dal 22/01/16

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**

194

in data

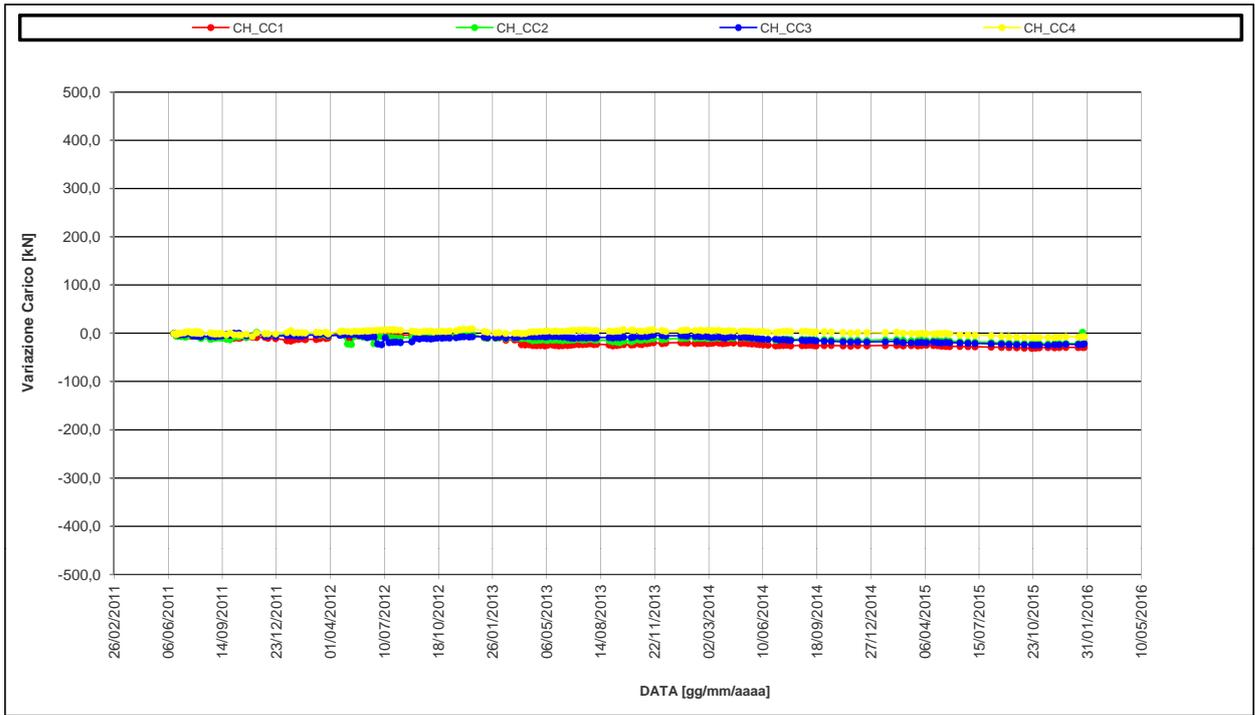
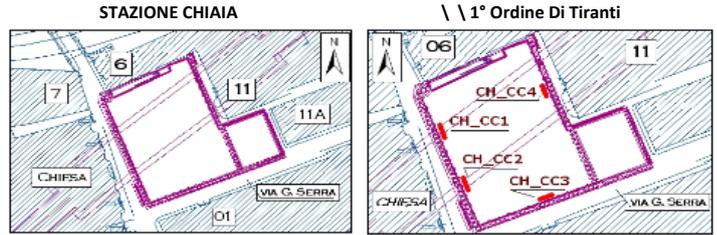
25/01/2016

Letture n°	DATA	CH_CC1		CH_CC2		CH_CC3		CH_CC4	
		Δ Carico [kN]	Carico [kN]						
141	29/04/2014 11:00	-21,00	279,97	-9,00	291,08	-8,00	321,53	4,00	289,88
142	06/05/2014 11:00	-20,00	280,97	-8,50	291,58	-7,50	322,03	5,00	290,88
143	13/05/2014 11:00	-21,00	279,97	-9,51	290,58	-8,50	321,03	4,50	290,38
144	20/05/2014 11:00	-22,00	278,97	-10,01	290,08	-9,50	320,03	4,00	289,88
145	29/05/2014 11:00	-22,50	278,47	-11,01	289,08	-10,50	319,03	3,50	289,38
146	03/06/2014 11:00	-23,00	277,97	-11,51	288,58	-11,50	318,03	4,00	289,88
147	10/06/2014 11:00	-24,00	276,97	-12,01	288,08	-12,00	317,53	4,00	289,88
148	19/06/2014 11:00	-24,50	276,47	-13,01	287,08	-12,50	317,03	2,50	288,38
149	03/07/2014 11:00	-26,00	274,97	-14,01	286,07	-12,00	317,53	2,00	287,88
150	10/07/2014 11:00	-25,50	275,47	-13,01	287,08	-13,50	316,03	3,00	288,88
151	17/07/2014 11:00	-25,00	275,97	-12,01	288,08	-13,00	316,53	4,00	289,88
152	24/07/2014 11:00	-24,50	276,47	-11,51	288,58	-13,50	316,03	4,50	290,38
153	31/07/2014 12:00	-26,00	274,97	-12,51	287,58	-14,50	315,03	4,00	289,88
154	21/08/2014 12:00	-25,50	275,47	-12,01	288,08	-14,00	315,53	4,00	289,88
155	28/08/2014 12:00	-25,00	275,97	-12,51	287,58	-15,00	314,53	4,50	290,38
156	04/09/2014 11:00	-24,50	276,47	-13,01	287,08	-14,00	315,53	3,00	288,88
157	11/09/2014 11:00	-25,00	275,97	-12,51	287,58	-14,50	315,03	2,50	288,38
158	16/09/2014 10:00	-26,00	274,97	-14,01	286,07	-15,50	314,03	3,00	288,88
159	01/10/2014 10:00	-25,50	275,47	-13,01	287,08	-16,00	313,53	3,50	289,38
160	14/10/2014 10:00	-25,00	275,97	-13,51	286,58	-16,50	313,03	3,00	288,88
161	05/11/2014 10:00	-26,00	274,97	-14,01	286,07	-17,50	312,03	2,00	287,88
162	19/11/2014 10:00	-26,50	274,47	-14,51	285,57	-18,00	311,53	1,00	286,88
163	02/12/2014 10:00	-25,50	275,47	-14,01	286,07	-17,50	312,03	1,50	287,38
164	19/12/2014 10:00	-26,00	274,97	-14,51	285,57	-18,00	311,53	2,00	287,88
165	22/01/2015 10:00	-25,50	275,47	-13,51	286,58	-17,50	312,03	1,50	287,38
166	12/02/2015 10:00	-25,00	275,97	-13,01	287,08	-17,00	312,53	2,50	288,38
167	24/02/2015 10:00	-26,00	274,97	-14,01	286,07	-19,00	310,53	0,50	286,38
168	11/03/2015 10:00	-25,50	275,47	-15,01	285,07	-19,50	310,03	0,00	285,88
169	23/03/2015 10:00	-26,00	274,97	-14,51	285,57	-19,00	310,53	-0,50	285,38
170	30/03/2015 10:00	-25,00	275,97	-14,01	286,07	-18,50	311,03	0,50	286,38
171	08/04/2015 10:00	-24,50	276,47	-15,01	285,07	-19,00	310,53	-0,50	285,38
172	21/04/2015 10:00	-25,00	275,97	-14,51	285,57	-18,00	311,53	-1,00	284,88
173	29/04/2015 10:00	-25,50	275,47	-15,01	285,07	-19,00	310,53	0,00	285,88
174	06/05/2015 10:00	-26,50	274,47	-16,01	284,07	-19,50	310,03	-0,50	285,38
175	14/05/2015 10:00	-27,00	273,97	-15,01	285,07	-18,50	311,03	0,50	286,38
176	21/05/2015 10:00	-27,50	273,47	-16,01	284,07	-19,50	310,03	-1,00	284,88
177	09/06/2015 10:00	-27,00	273,97	-17,01	283,07	-20,00	309,53	-3,00	282,88
178	24/06/2015 10:00	-27,50	273,47	-17,51	282,57	-20,50	309,03	-3,50	282,38
179	07/07/2015 10:00	-28,00	272,97	-18,01	282,07	-21,00	308,53	-4,00	281,88
180	06/08/2015 10:00	-28,50	272,47	-18,51	281,57	-21,50	308,03	-5,00	280,88
181	25/08/2015 11:00	-29,00	271,97	-19,51	280,57	-22,00	307,53	-6,00	279,88
182	08/09/2015 11:00	-29,50	271,47	-20,01	280,07	-22,99	306,53	-7,00	278,88
183	22/09/2015 14:00	-30,00	270,97	-20,01	280,07	-23,49	306,03	-7,50	278,38
184	06/10/2015 14:00	-30,50	270,47	-21,01	279,07	-23,49	306,03	-8,00	277,88
185	20/10/2015 11:00	-31,00	269,97	-21,51	278,57	-23,99	305,53	-8,50	277,38
186	27/10/2015 11:00	-30,50	270,47	-22,01	278,07	-24,49	305,03	-9,00	276,88
187	03/11/2015 11:00	-30,00	270,97	-21,51	278,57	-23,99	305,53	-8,50	277,38
188	19/11/2015 11:00	-29,50	271,47	-22,01	278,07	-24,49	305,03	-8,00	277,88
189	01/12/2015 11:00	-30,00	270,97	-21,51	278,57	-23,49	306,03	-8,50	277,38
190	10/12/2015 11:00	-29,50	271,47	-21,01	279,07	-23,49	306,03	-7,50	278,38
191	22/12/2015 11:00	-29,00	271,97	-20,51	279,57	-22,50	307,03	-7,00	278,88
192	14/01/2016 11:00	-29,50	271,47	-21,01	279,07	-22,99	306,53	-7,50	278,38
193	22/01/2016 11:00	-29,00	271,97	2,50	302,58	-22,50	307,03	-7,00	278,88
194	25/01/2016 12:00	-29,00	271,97	-20,51	279,57	-21,50	308,03	-7,00	278,88



SCHEMA UBICAZIONE

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





TABULATI

Ubicazione STAZIONE CHIAIA

Tipo Strumento Cella di Carico

Posizione \ \ 2° Ordine Di Tiranti

Data posa in opera 02/08/2011

Data lettura di zero 02/08/2011

Ultima
misura

186

in data

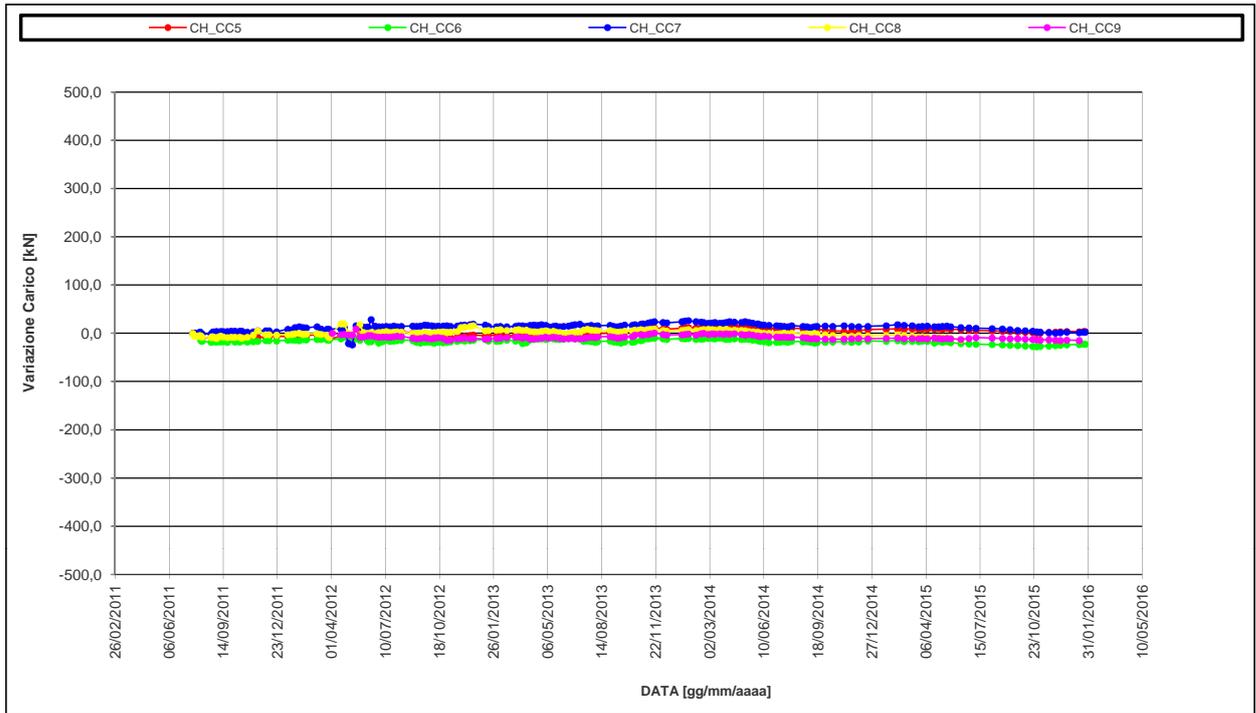
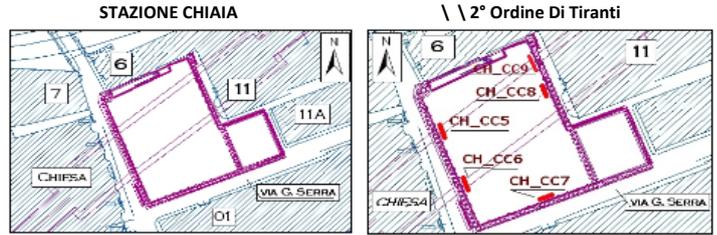
25/01/2016

Letture n°	DATA	CH_CC5		CH_CC6		CH_CC7		CH_CC8		CH_CC9	
		Δ Carico [kN]	Carico [kN]								
133	29/04/2014 11:00	14,25	553,31	-12,75	510,21	22,50	503,93	6,00	367,34	-2,25	399,00
134	06/05/2014 11:00	16,50	555,56	-12,00	510,96	24,00	505,43	5,25	366,59	-3,75	397,50
135	13/05/2014 11:00	15,75	554,81	-12,75	510,21	22,50	503,93	3,75	365,09	-2,25	399,00
136	20/05/2014 11:00	15,00	554,06	-14,25	508,71	21,00	502,43	3,00	364,34	-3,75	397,50
137	29/05/2014 11:00	14,25	553,31	-15,00	507,96	19,50	500,93	2,25	363,59	-5,25	396,00
138	03/06/2014 11:00	12,75	551,81	-16,50	506,46	18,00	499,43	0,75	362,09	-6,75	394,50
139	10/06/2014 11:00	12,00	551,06	-17,25	505,71	17,25	498,68	0,00	361,34	-5,25	396,00
140	19/06/2014 11:00	10,50	549,56	-19,50	503,46	16,50	497,93	0,00	361,34	-6,75	394,50
141	03/07/2014 11:00	9,00	548,06	-18,75	504,21	15,75	497,18	-1,50	359,84	-7,50	393,75
142	10/07/2014 11:00	9,75	548,81	-18,00	504,96	15,00	496,43	-0,75	360,59	-8,25	393,00
143	17/07/2014 11:00	10,50	549,56	-17,25	505,71	14,25	495,68	0,75	362,09	-7,50	393,75
144	24/07/2014 11:00	9,00	548,06	-18,75	504,21	13,50	494,93	-0,75	360,59	-8,25	393,00
145	31/07/2014 12:00	10,50	549,56	-16,50	506,46	15,75	497,18	0,00	361,34	-8,25	393,00
146	21/08/2014 12:00	9,75	548,81	-18,00	504,96	14,25	495,68	-1,50	359,84	-9,00	392,25
147	28/08/2014 12:00	8,25	547,31	-17,25	505,71	13,50	494,93	-0,75	360,59	-9,75	391,50
148	04/09/2014 11:00	7,50	546,56	-18,75	504,21	12,00	493,43	-1,50	359,84	-11,25	390,00
149	11/09/2014 11:00	8,25	547,31	-20,25	502,71	13,50	494,93	0,00	361,34	-10,50	390,75
150	16/09/2014 10:00	7,50	546,56	-19,50	503,46	14,25	495,68	-1,50	359,84	-11,25	390,00
151	01/10/2014 10:00	6,75	545,81	-18,75	504,21	15,00	496,43	-3,00	358,34	-12,00	389,25
152	15/10/2014 10:00	5,25	544,31	-18,00	504,96	14,25	495,68	-4,50	356,84	-12,75	388,50
153	05/11/2014 10:00	3,75	542,81	-17,25	505,71	15,75	497,18	-5,25	356,09	-12,00	389,25
154	19/11/2014 10:00	4,50	543,56	-18,75	504,21	14,25	495,68	-6,00	355,34	-11,25	390,00
155	02/12/2014 10:00	5,25	544,31	-18,00	504,96	13,50	494,93	-4,50	356,84	-10,50	390,75
156	19/12/2014 10:00	7,50	546,56	-15,75	507,21	14,25	495,68	-5,25	356,09	-11,25	390,00
157	22/01/2015 10:00	8,25	547,31	-16,50	506,46	15,75	497,18	-4,50	356,84	-10,50	390,75
158	12/02/2015 10:00	9,00	548,06	-15,00	507,96	18,00	499,43	-3,00	358,34	-9,75	391,50
159	24/02/2015 10:00	8,25	547,31	-17,25	505,71	16,50	497,93	-4,50	356,84	-11,25	390,00
160	11/03/2015 10:00	9,00	548,06	-16,50	506,46	15,75	497,18	-5,25	356,09	-10,50	390,75
161	23/03/2015 10:00	8,25	547,31	-17,25	505,71	13,50	494,93	-7,50	353,84	-11,25	390,00
162	30/03/2015 10:00	9,00	548,06	-15,75	507,21	14,25	495,68	-6,75	354,59	-10,50	390,75
163	08/04/2015 10:00	8,25	547,31	-16,50	506,46	15,00	496,43	-8,25	353,09	-11,25	390,00
164	21/04/2015 10:00	8,25	547,31	-20,25	502,71	13,50	494,93	-9,00	352,34	-9,75	391,50
165	29/04/2015 10:00	9,75	548,81	-16,50	506,46	13,50	494,93	-7,50	353,84	-10,50	390,75
166	06/05/2015 10:00	8,25	547,31	-18,75	504,21	14,25	495,68	-9,75	351,59	-11,25	390,00
167	14/05/2015 10:00	10,50	549,56	-17,25	505,71	15,00	496,43	-9,00	352,34	-10,50	390,75
168	21/05/2015 10:00	8,25	547,31	-19,50	503,46	13,50	494,93	-10,50	350,84	-11,25	390,00
169	09/06/2015 10:00	7,50	546,56	-21,00	501,96	12,00	493,43	-13,50	347,84	-12,75	388,50
170	24/06/2015 10:00	6,75	545,81	-21,75	501,21	11,25	492,68			-10,50	390,75
171	07/07/2015 10:00	6,00	545,06	-22,50	500,46	10,50	491,93			-9,00	392,25
172	06/08/2015 10:00	5,25	544,31	-23,25	499,71	9,75	491,18			-9,75	391,50
173	25/08/2015 11:00	4,50	543,56	-24,00	498,96	9,00	490,43			-10,50	390,75
174	08/09/2015 11:00	3,75	542,81	-24,75	498,21	7,50	488,93			-11,25	390,00
175	22/09/2015 14:00	3,00	542,06	-25,50	497,46	6,00	487,43			-11,25	390,00
176	06/10/2015 14:00	2,25	541,31	-26,25	496,71	5,25	486,68			-12,00	389,25
177	20/10/2015 11:00	1,50	540,56	-27,00	495,96	4,50	485,93			-12,75	388,50
178	27/10/2015 11:00	0,75	539,81	-27,75	495,21	3,00	484,43			-13,50	387,75
179	03/11/2015 11:00	0,75	539,81	-27,00	495,96	2,25	483,68			-14,25	387,00
180	19/11/2015 11:00	1,50	540,56	-26,25	496,71	1,50	482,93			-13,50	387,75
181	01/12/2015 11:00	2,25	541,31	-25,50	497,46	0,75	482,18			-14,25	387,00
182	10/12/2015 11:00	3,00	542,06	-24,75	498,21	1,50	482,93			-15,00	386,25
183	22/12/2015 11:00	3,75	542,81	-24,00	498,96	2,25	483,68			-14,25	387,00
184	14/01/2016 11:00	3,00	542,06	-23,25	499,71	1,50	482,93			-15,00	386,25
185	22/01/2016 11:00	3,75	542,81	-22,50	500,46	2,25	483,68				
186	25/01/2016 12:00	3,75	542,81	-22,50	500,46	2,25	483,68				



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

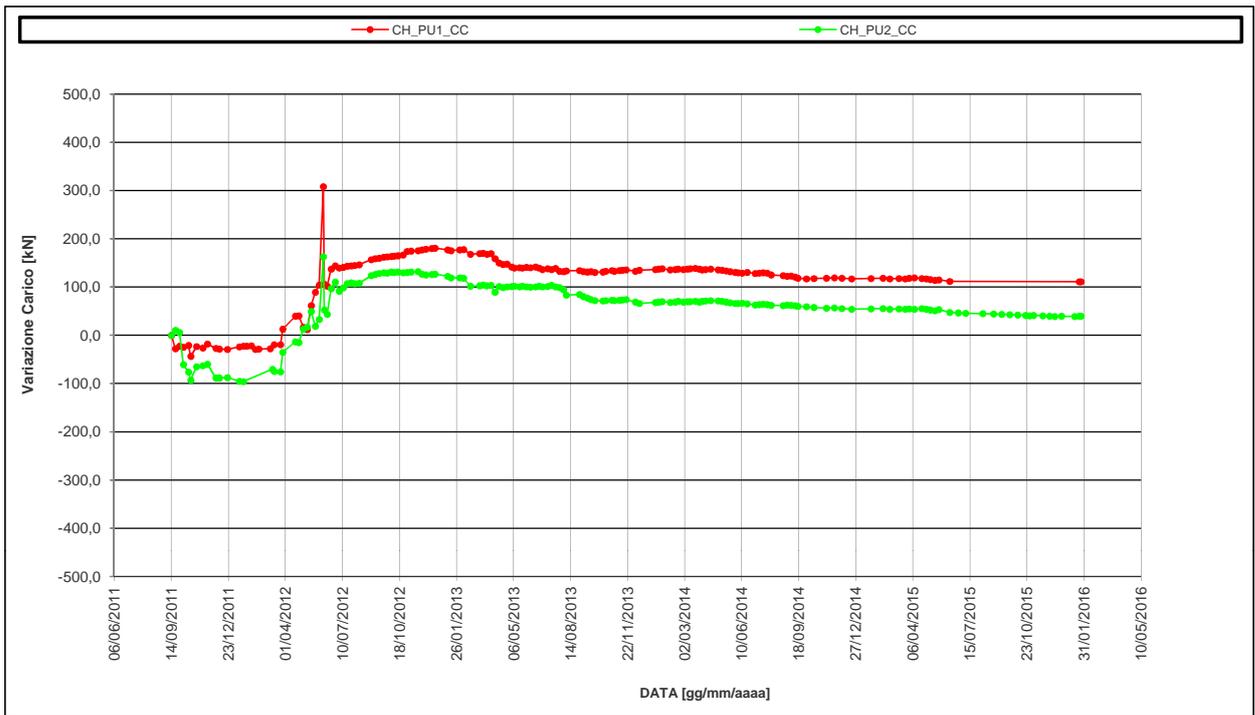
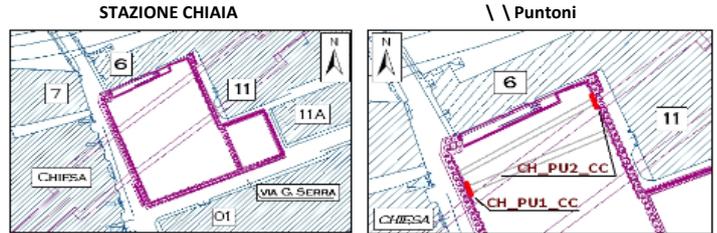
Ultima misura 167 **in data** 25/01/2016

Letture n°	DATA	CH_PU1_CC		CH_PU2_CC	
		Δ Carico [kN]	Carico [kN]	Δ Carico [kN]	Carico [kN]
114	29/04/2014 11:00	135,72	438,94	71,25	647,29
115	06/05/2014 11:30	134,97	438,19	70,50	646,54
116	13/05/2014 11:00	133,48	436,69	69,00	645,04
117	20/05/2014 11:00	131,98	435,19	67,50	643,54
118	29/05/2014 11:00	130,48	433,69	66,00	642,04
119	03/06/2014 11:00	129,73	432,94	66,00	642,04
120	10/06/2014 11:00	128,98	432,19	66,75	642,79
121	19/06/2014 11:00	130,48	433,69	65,25	641,29
122	03/07/2014 11:00	128,23	431,44	63,00	639,04
123	10/07/2014 11:00	128,98	432,19	63,75	639,79
124	17/07/2014 10:00	129,73	432,94	64,50	640,54
125	24/07/2014 11:00	128,98	432,19	63,75	639,79
126	31/07/2014 12:00	125,23	428,44	62,25	638,29
127	21/08/2014 12:00	123,73	426,94	61,50	637,54
128	28/08/2014 12:00	122,23	425,44	63,00	639,04
129	04/09/2014 11:00	122,98	426,19	62,25	638,29
130	11/09/2014 11:00	120,73	423,94	61,50	637,54
131	16/09/2014 10:00	118,48	421,69	60,00	636,04
132	01/10/2014 10:00	116,98	420,19	59,25	635,29
133	14/10/2014 10:00	117,73	420,94	57,75	633,79
134	05/11/2014 10:00	118,48	421,69	56,25	632,29
135	19/11/2014 10:00	119,23	422,44	57,00	633,04
136	02/12/2014 10:00	118,48	421,69	55,50	631,54
137	19/12/2014 10:00	116,98	420,19	54,00	630,04
138	22/01/2015 10:00	117,73	420,94	54,75	630,79
139	12/02/2015 10:00	118,48	421,69	55,50	631,54
140	24/02/2015 10:00	116,98	420,19	54,00	630,04
141	12/03/2015 10:00	117,73	420,94	54,75	630,79
142	23/03/2015 10:00	116,98	420,19	54,00	630,04
143	30/03/2015 10:00	118,48	421,69	54,75	630,79
144	08/04/2015 10:00	119,23	422,44	54,00	630,04
145	21/04/2015 10:00	117,73	420,94	55,50	631,54
146	29/04/2015 10:00	116,98	420,19	54,00	630,04
147	06/05/2015 10:00	115,48	418,69	52,50	628,54
148	14/05/2015 10:00	113,98	417,19	51,00	627,04
149	21/05/2015 10:00	114,73	417,94	53,25	629,29
150	09/06/2015 10:00	111,73	414,94	47,25	623,29
151	24/06/2015 10:00			46,50	622,54
152	07/07/2015 10:00			45,75	621,79
153	06/08/2015 10:00			45,00	621,04
154	25/08/2015 11:00			44,25	620,29
155	08/09/2015 11:00			43,50	619,54
156	22/09/2015 14:00			42,75	618,79
157	06/10/2015 14:00			42,00	618,04
158	20/10/2015 11:00			41,25	617,29
159	27/10/2015 11:00			40,50	616,54
160	03/11/2015 11:00			41,25	617,29
161	19/11/2015 11:00			40,50	616,54
162	01/12/2015 11:00			39,75	615,79
163	10/12/2015 10:00			39,00	615,04
164	22/12/2015 10:00			39,75	615,79
165	14/01/2016 10:00			39,00	615,04
166	22/01/2016 10:00	110,98	414,19	39,75	615,79
167	25/01/2016 12:30	110,98	414,19	39,75	615,79



SCHEMA UBICAZIONE

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



 <p>Ansaldo STS A Finmeccanica Company</p>	<p>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</p> <p><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO</i> <i>REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C I 48 Data: 29/01/16 Metropolit. di Napoli A.T.I. LM6 TreEsse Engineering S.r.l.</p>
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10. MISURE TOPOGRAFICHE – MIRE OTTICHE

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

 <p>Ansaldo STS A Finmeccanica Company</p>	<p>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</p> <p><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO</i></p> <p><i>REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C I 48 Data: 29/01/16 Metropolit. 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	05/03/13 – 28/03/13		
CH_MO12	M. OTTICHE		15/07/11	05/03/13 – 28/03/13		
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		21/08/15	(*)
CH_MO18	M. OTTICHE		17/04/12	28/02/14 - 23/07/14	21/08/15	(*)
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	05/03/13 – 28/03/13		
CH_MO28	M. OTTICHE		24/08/11	05/03/13 – 28/03/13		
CH_MO29	M. OTTICHE		24/08/11			
CH_MO30	M. OTTICHE		24/08/11			
CH_MO31	M. OTTICHE		29/11/11	06/03/14 – 23/07/14		
CH_MO32	M. OTTICHE		29/11/11			

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

 <p>Ansaldo STS A Finmeccanica Company</p>	<p>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</p> <p><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO</i></p> <p><i>REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C I 48 Data: 29/01/16 Metropolit. 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		12/12/14	RIMOSSA
CH_MO34	M. OTTICHE		18/07/12		28/11/14	RIMOSSA
CH_MO35	M. OTTICHE		13/09/12		28/11/14	RIMOSSA
CH_MO36	M. OTTICHE		13/09/12		27/02/13	SOSTITUITA
CH_MO36A	M. OTTICHE		28/03/13		28/11/14	RIMOSSA
CH_MO37	M. OTTICHE		18/09/12		13/06/13	SOSTITUITA
CH_MO37A	M. OTTICHE		01/07/13		28/11/14	RIMOSSA
CH_MO38	M. OTTICHE		07/02/13		28/11/14	RIMOSSA
CH_MO39	M. OTTICHE		07/02/13		28/11/14	RIMOSSA
CH_MO40	M. OTTICHE		14/02/13		07/11/13	DIVELTA
CH_MO41	M. OTTICHE		05/03/13		28/11/14	RIMOSSA
CH_MO42	M. OTTICHE		05/03/13		28/11/14	RIMOSSA
CH_MO43	M. OTTICHE		05/03/13		31/10/13	DIVELTA
CH_MO44	M. OTTICHE		05/03/13		28/08/13	DIVELTA
CH_MO45	M. OTTICHE		28/03/13		15/01/14	DIVELTA
CH_MO46	M. OTTICHE		28/03/13		26/01/15	RIMOSSA
CH_MO47	M. OTTICHE		28/03/13		26/01/15	RIMOSSA
CH_MO48	M. OTTICHE		28/03/13		28/11/14	RIMOSSA
CH_MO49	M. OTTICHE		28/03/13		28/11/14	RIMOSSA
CH_MO50	M. OTTICHE		28/03/13		21/08/15	RIMOSSA
CH_MO51	M. OTTICHE		03/04/13		28/10/14	DIVELTA
CH_MO52	M. OTTICHE		28/03/13		21/08/15	RIMOSSA
CH_MO53	M. OTTICHE		28/03/13	28/02/14 – 23/07/14	21/08/15	RIMOSSA
CH_MO54	M. OTTICHE		28/03/13		12/02/15	RIMOSSA
CH_MO55	M. OTTICHE		28/03/13		29/12/14	RIMOSSA
CH_MO56	M. OTTICHE		28/03/13		26/01/15	RIMOSSA
CH_MO57	M. OTTICHE		28/03/13		26/01/15	RIMOSSA
CH_MO58	M. OTTICHE		28/03/13		28/11/14	RIMOSSA
CH_MO59	M. OTTICHE		28/03/13		28/11/14	RIMOSSA
CH_MO60	M. OTTICHE		28/03/13		29/12/14	RIMOSSA
CH_MO61	M. OTTICHE		28/03/13	Dal 28/02/14	29/12/14	RIMOSSA
CH_MO62	M. OTTICHE		28/03/13		12/02/15	RIMOSSA
CH_MO63	M. OTTICHE		28/03/13		12/12/14	RIMOSSA
CH_MO64	M. OTTICHE		28/03/13		12/12/14	RIMOSSA
CH_MO65	M. OTTICHE		06/02/14		24/03/14	DIVELTA
CH_MO66	M. OTTICHE		06/02/14		16/09/14	RIMOSSA
CH_MO67	M. OTTICHE		06/02/14		16/09/14	RIMOSSA
CH_MO68	M. OTTICHE		06/02/14		16/09/14	RIMOSSA

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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		16/09/14	RIMOSSA
CH_MO70	M. OTTICHE		06/02/14		16/09/14	RIMOSSA
CH_MO71	M. OTTICHE		12/02/14		16/09/14	RIMOSSA
CH_MO72	M. OTTICHE		28/02/14		16/09/14	RIMOSSA
CH_MO73	M. OTTICHE		06/03/14		16/09/14	RIMOSSA
CH_MO74	M. OTTICHE		06/03/14		16/09/14	RIMOSSA

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



Ubicazione STAZIONE CHIAIA

Opera \ \ Ordine di Tiranti \ 01-04

Tipo Strumento Mire Ottiche

Data posa in opera 13/09/2011

Data lettura di zero 13/09/2011

Ultima Misura 163 in data 25/01/2016

Letto. n°	DATA	CH_M01					CH_M02					CH_M03					CH_M04				
		Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]
73	31/05/2013 15:30	18.0	34.7	2.0	0.0	-2.0	18.0	34.7	2.0	-2.0	-2.0	18.0	33.0	3.0	-4.0	-4.0	18.0	32.9	2.0	-3.0	-2.0
74	07/06/2013 08:30	21.0	34.7	2.0	-1.0	-2.0	21.0	34.7	2.0	-1.0	-1.0	21.0	33.0	3.0	-2.0	-3.0	21.0	32.9	2.0	-3.0	-1.0
75	13/06/2013 14:30	28.0	34.7	3.0	0.0	-2.0	28.0	34.7	3.0	1.0	-2.0	28.0	33.0	4.0	-1.0	-3.0	28.0	32.9	3.0	-1.0	-2.0
76	18/06/2013 09:00	28.0	34.7	1.0	0.0	-1.0	28.0	34.7	2.0	0.0	-1.0	28.0	33.0	2.0	-2.0	-3.0	28.0	32.9	2.0	-2.0	-1.0
77	25/06/2013 18:00	28.0	34.7	2.0	1.0	-1.0	28.0	34.7	1.0	-1.0	-1.0	28.0	33.0	3.0	-1.0	-2.0	28.0	32.9	3.0	-3.0	-1.0
78	01/07/2013 07:30	22.0	34.7	2.0	0.0	-1.0	22.0	34.7	2.0	0.0	-1.0	22.0	33.0	3.0	-2.0	-3.0	22.0	32.9	2.0	-2.0	-1.0
79	08/07/2013 17:30	25.0	34.7	2.0	1.0	-1.0	25.0	34.7	2.0	0.0	0.0	25.0	33.0	3.0	-2.0	-2.0	25.0	32.9	3.0	-1.0	-1.0
80	13/07/2013 07:30	25.0	34.7	2.0	-1.0	-1.0	25.0	34.7	2.0	-1.0	-1.0	25.0	33.0	3.0	-3.0	-1.0	25.0	32.9	3.0	-3.0	0.0
81	18/07/2013 07:30	25.0	34.7	3.0	0.0	-1.0	25.0	34.7	3.0	-1.0	-2.0	25.0	33.0	4.0	-3.0	-3.0	25.0	32.9	3.0	-3.0	-1.0
82	25/07/2013 18:00	27.0	34.7	3.0	0.0	-1.0	27.0	34.7	2.0	-1.0	1.0	27.0	33.0	3.0	-2.0	-1.0	27.0	32.9	2.0	-2.0	0.0
83	31/07/2013 09:00	27.0	34.7	3.0	0.0	0.0	27.0	34.7	3.0	-1.0	-1.0	27.0	33.0	3.0	-3.0	-2.0	27.0	32.9	3.0	-2.0	0.0
84	07/08/2013 09:00	29.0	34.7	3.0	0.0	1.0	29.0	34.7	3.0	-1.0	0.0	29.0	33.0	3.0	-2.0	-2.0	29.0	32.9	2.0	-2.0	0.0
85	13/08/2013 09:00	27.0	34.7	2.0	0.0	1.0	27.0	34.7	2.0	0.0	1.0	27.0	33.0	2.0	-1.0	-1.0	27.0	32.9	1.0	-2.0	0.0
86	21/08/2013 07:30	23.0	34.7	2.0	0.0	0.0	23.0	34.7	2.0	0.0	-1.0	23.0	33.0	2.0	-1.0	-3.0	23.0	32.9	2.0	-2.0	0.0
87	28/08/2013 10:30	25.0	34.7	3.0	0.0	-1.0	25.0	34.7	3.0	-1.0	-1.0	25.0	33.0	2.0	-3.0	-2.0	25.0	32.9	2.0	-1.0	-1.0
88	06/09/2013 17:30	29.0	34.7	3.0	0.0	0.0	29.0	34.7	2.0	0.0	-1.0	29.0	33.0	2.0	-1.0	-2.0	29.0	32.9	2.0	-2.0	-1.0
89	13/09/2013 07:30	18.0	34.7	3.0	0.0	-1.0	18.0	34.7	3.0	-1.0	-1.0	18.0	33.0	3.0	-2.0	-3.0	18.0	32.9	2.0	-1.0	-1.0
90	21/09/2013 09:30	21.0	34.7	3.0	0.0	-2.0	21.0	34.7	3.0	-1.0	-2.0	21.0	33.0	2.0	-2.0	-2.0	21.0	32.9	2.0	-3.0	-1.0
91	26/09/2013 09:30	18.0	34.7	3.0	0.0	0.0	18.0	34.7	3.0	-2.0	-2.0	18.0	33.0	2.0	-2.0	-2.0	18.0	32.9	2.0	-2.0	0.0
92	03/10/2013 16:30	20.0	34.7	3.0	0.0	-1.0	20.0	34.7	3.0	0.0	-1.0	20.0	33.0	2.0	-1.0	-3.0	20.0	32.9	2.0	-2.0	-1.0
93	10/10/2013 08:30	16.0	34.7	3.0	0.0	-1.0	16.0	34.7	3.0	-1.0	-1.0	16.0	33.0	2.0	-1.0	-1.0	16.0	32.9	2.0	-1.0	1.0
94	16/10/2013 14:30	23.0	34.7	3.0	0.0	0.0	23.0	34.7	3.0	-1.0	-1.0	23.0	33.0	2.0	-3.0	-2.0	23.0	32.9	2.0	-3.0	0.0
95	24/10/2013 08:30	18.0	34.7	3.0	2.0	0.0	18.0	34.7	3.0	-1.0	-1.0	18.0	33.0	2.0	-2.0	-1.0	18.0	32.9	2.0	-1.0	1.0
96	31/10/2013 14:30	23.0	34.7	3.0	1.0	-1.0	23.0	34.7	3.0	0.0	0.0	23.0	33.0	2.0	-2.0	-1.0	23.0	32.9	2.0	-2.0	0.0
97	07/11/2013 08:30	11.0	34.7	3.0	1.0	0.0	11.0	34.7	3.0	0.0	0.0	11.0	33.0	2.0	-2.0	-1.0	11.0	32.9	2.0	-1.0	0.0
98	14/11/2013 14:30	20.0	34.7	3.0	1.0	0.0	20.0	34.7	3.0	0.0	0.0	20.0	33.0	2.0	-2.0	-2.0	20.0	32.9	2.0	-1.0	1.0
99	25/11/2013 15:30	12.0	34.7	3.0	1.0	-1.0	12.0	34.7	3.0	-1.0	-1.0	12.0	33.0	3.0	-3.0	-1.0	12.0	32.9	2.0	-1.0	1.0
100	30/11/2013 08:30	7.0	34.7	3.0	1.0	-1.0	7.0	34.7	3.0	0.0	-1.0	7.0	33.0	3.0	-1.0	-2.0	7.0	32.9	2.0	-1.0	0.0
101	05/12/2013 08:30	7.0	34.7	3.0	1.0	0.0	7.0	34.7	3.0	0.0	0.0	7.0	33.0	2.0	-2.0	-2.0	7.0	32.9	2.0	-1.0	-1.0
102	19/12/2013 13:00	8.0	34.7	2.0	0.0	1.0	8.0	34.7	2.0	-2.0	0.0	8.0	33.0	1.0	-1.0	-1.0	8.0	32.9	1.0	-2.0	1.0
103	27/12/2013 09:00	8.0	34.7	3.0	-1.0	1.0	8.0	34.7	2.0	-3.0	0.0	8.0	33.0	0.0	-1.0	-2.0	8.0	32.9	0.0	-3.0	0.0
104	02/01/2014 07:30	14.0	34.7	2.0	-1.0	2.0	14.0	34.7	2.0	-2.0	0.0	14.0	33.0	0.0	-2.0	-1.0	14.0	32.9	1.0	-3.0	0.0
105	08/01/2014 14:30	14.0	34.7	3.0	0.0	-2.0	14.0	34.7	3.0	-1.0	-1.0	14.0	33.0	2.0	0.0	-2.0	14.0	32.9	1.0	-1.0	0.0
106	15/01/2014 08:30	11.0	34.7	3.0	3.0	0.0	11.0	34.7	3.0	-1.0	-1.0	11.0	33.0	2.0	0.0	-2.0	11.0	32.9	1.0	-1.0	-1.0
107	22/01/2014 14:30	12.0	34.7	4.0	2.0	0.0	12.0	34.7	3.0	1.0	-1.0	12.0	33.0	3.0	-1.0	-1.0	12.0	32.9	2.0	-2.0	0.0
108	29/01/2014 08:30	7.0	34.7	2.0	1.0	1.0	7.0	34.7	2.0	-1.0	-1.0	7.0	33.0	2.0	-3.0	-1.0	7.0	32.9	1.0	-2.0	0.0
109	06/02/2014 14:30	14.0	34.7	3.0	2.0	0.0	14.0	34.7	3.0	-1.0	-1.0	14.0	33.0	2.0	-2.0	-2.0	14.0	32.9	1.0	-2.0	-1.0
110	12/02/2014 08:30	11.0	34.7	4.0	1.0	-1.0	11.0	34.7	3.0	0.0	-2.0	11.0	33.0	2.0	-2.0	-2.0	11.0	32.9	2.0	-1.0	0.0
111	19/02/2014 14:30	18.0	34.7	3.0	1.0	-1.0	18.0	34.7	3.0	0.0	-1.0	18.0	33.0	2.0	-1.0	-1.0	18.0	32.9	2.0	-1.0	1.0
112	28/02/2014 08:30	12.0	34.7	3.0	1.0	0.0	12.0	34.7	3.0	0.0	-1.0	12.0	33.0	2.0	-3.0	-4.0	12.0	32.9	2.0	-3.0	-1.0
113	06/03/2014 16:30	15.0	34.7	3.0	0.0	-2.0	15.0	34.7	3.0	0.0	0.0	15.0	33.0	2.0	0.0	-2.0	15.0	32.9	2.0	-1.0	-1.0
114	10/03/2014 08:30	10.0	34.7	3.0	0.0	-1.0	10.0	34.7	3.0	0.0	-1.0	10.0	33.0	2.0	-1.0	-2.0	10.0	32.9	2.0	-1.0	0.0
115	17/03/2014 15:30	15.0	34.7	3.0	0.0	-3.0	15.0	34.7	3.0	0.0	-1.0	15.0	33.0	2.0	-2.0	-3.0	15.0	32.9	2.0	-2.0	-2.0
116	24/03/2014 08:30	10.0	34.7	3.0	1.0	-1.0	10.0	34.7	3.0	0.0	-1.0	10.0	33.0	2.0	-1.0	-2.0	10.0	32.9	2.0	-1.0	0.0
117	01/04/2014 18:30	15.0	34.7	3.0	0.0	-2.0	15.0	34.7	3.0	0.0	-1.0	15.0	33.0	2.0	-2.0	-3.0	15.0	32.9	2.0	-2.0	-1.0
118	09/04/2014 08:30	15.0	34.7	3.0	1.0	-1.0	15.0	34.7	3.0	-1.0	-2.0	15.0	33.0	2.0	-2.0	-3.0	15.0	32.9	2.0	-2.0	-1.0
119	16/04/2014 08:30	10.0	34.7	3.0	0.0	0.0	10.0	34.7	3.0	-1.0	-1.0	10.0	33.0	2.0	-1.0	-3.0	10.0	32.9	1.0	-1.0	0.0
120	24/04/2014 08:30	15.0	34.7	3.0	1.0	-2.0	15.0	34.7	3.0	1.0	-1.0	15.0	33.0	2.0	-2.0	-4.0	15.0	32.9	1.0	-2.0	-1.0
121	06/05/2014 08:30	15.0	34.7	3.0	0.0	-1.0	15.0	34.7	3.0	1.0	0.0	15.0	33.0	2.0	-2.0	-2.0	15.0	32.9	1.0	-2.0	0.0
122	13/05/2014 08:30	18.0	34.7	3.0	0.0	-1.0	18.0	34.7	3.0	-1.0	-1.0	18.0	33.0	2.0	-1.0	-2.0	18.0	32.9	1.0	-1.0	-1.0
123	22/05/2014 08:30	20.0	34.7	3.0	1.0	-1.0	20.0	34.7	3.0	0.0	0.0	20.0	33.0	2.0	-2.0	-2.0	20.0	32.9	1.0	-1.0	-1.0
124	29/05/2014 08:30	18.0	34.7	3.0	0.0	0.0	18.0	34.7	3.0	-1.0	-1.0	18.0	33.0	2.0	-2.0	-2.0	18.0	32.9	1.0	-2.0	-1.0
125	11/06/2014 08:30	22.0	34.7	3.0	-1.0	-1.0	22.0	34.7	3.0	-1.0	-1.0	22.0	33.0	2.0	-3.0	-3.0	22.0	32.9	1.0	-2.0	-1.0
126	18/06/2014 08:30	18.0	34.7	3.0	0.0	-1.0	18.0	34.7	3.0	-1.0	-1.0	18.0	33.0	2.0	-2.0	-3.0	18.0	32.9	1.0	-2.0	-1.0
127	26/06/2014 08:30	22.0	34.7	3.0	1.0	0.0	22.0	34.7	3.0	0.0	-1.0	22.0	33.0	2.0	-2.0	-2.0	22.0	32.9	1.0	-1.0	-1.0
128	08/07/2014 08:30	25.0	34.7	3.0	1.0	-1.0	25.0	34.7	3.0	0.0	0.0	25.0	33.0	2.0	-1.0	-3.0	25.0	32.9	2.0	-4.0	-2.0
129	23/07/2014 08:30	25.0	34.7	3.0	1.0	-2.0	25.0	34.7													



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 QUOTA

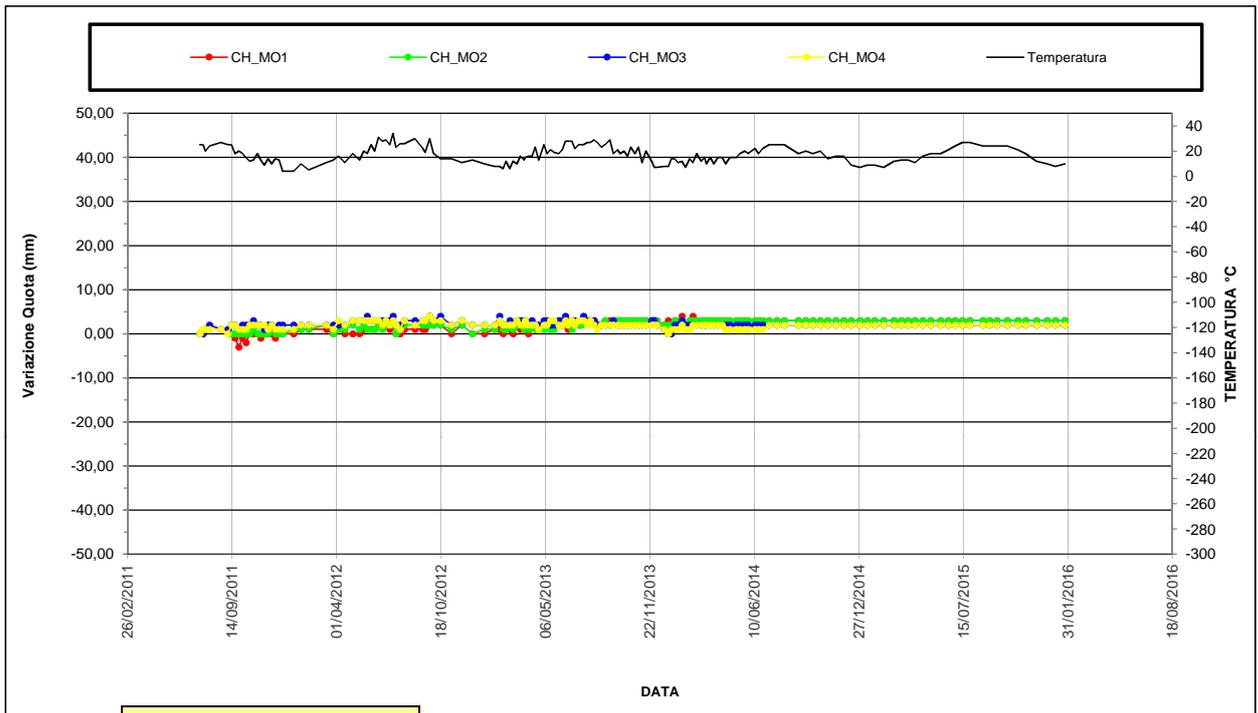
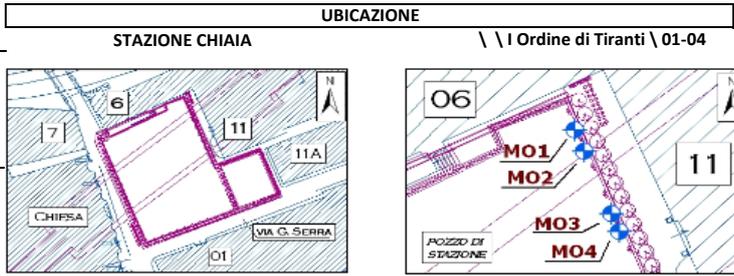
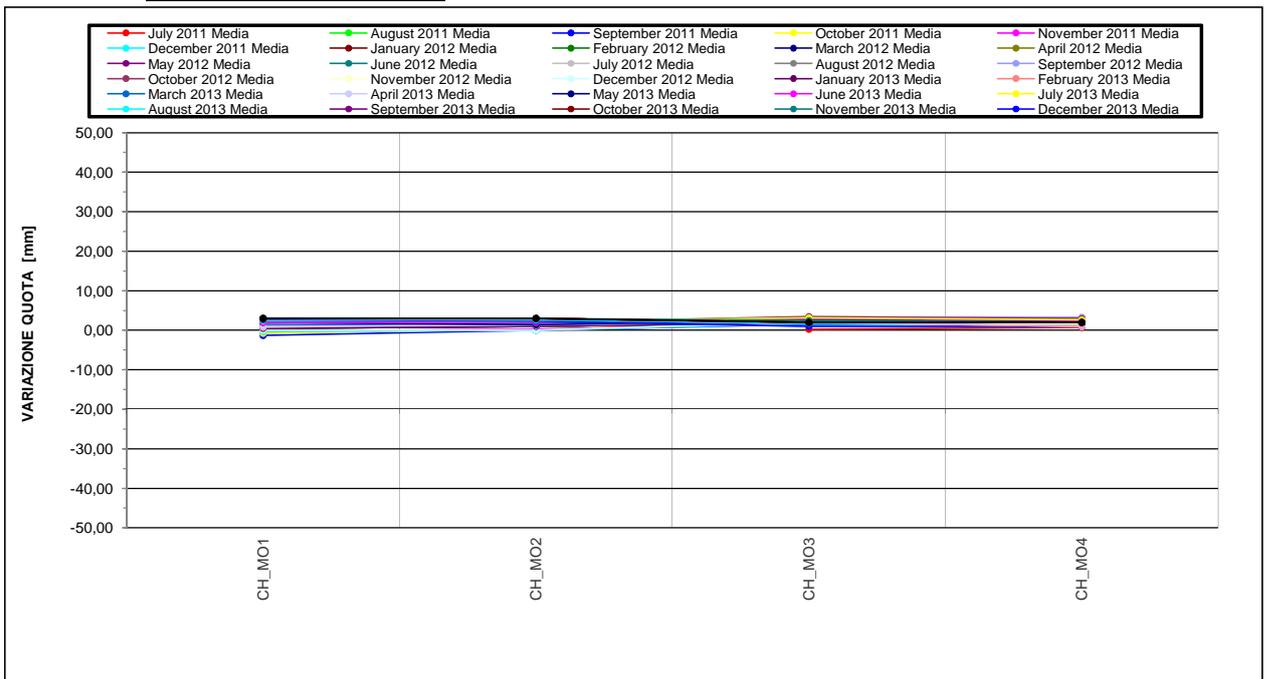


GRAFICO ISOCRONE





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

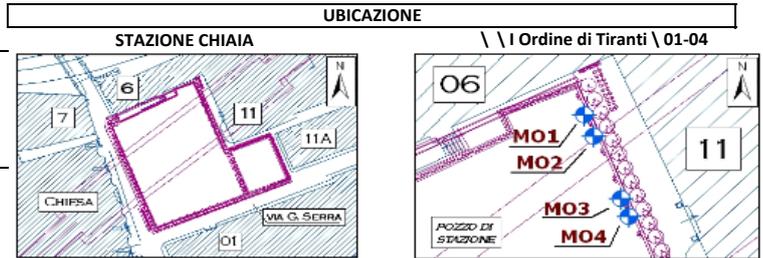


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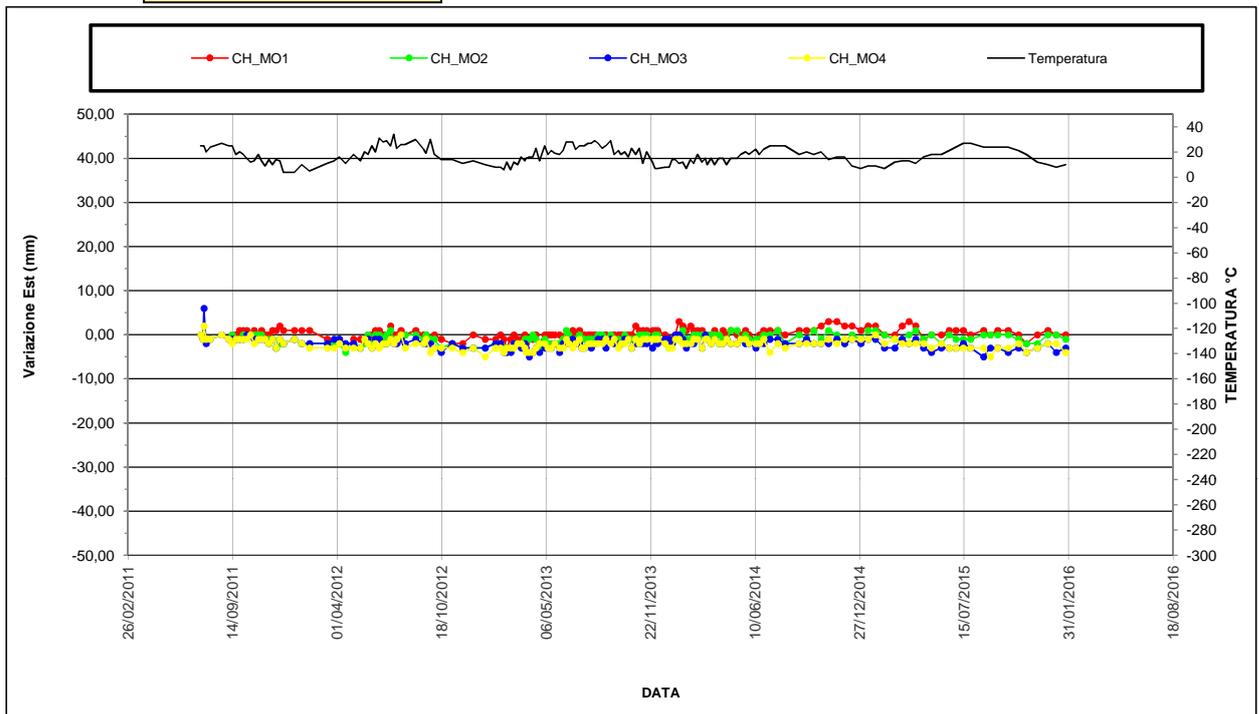
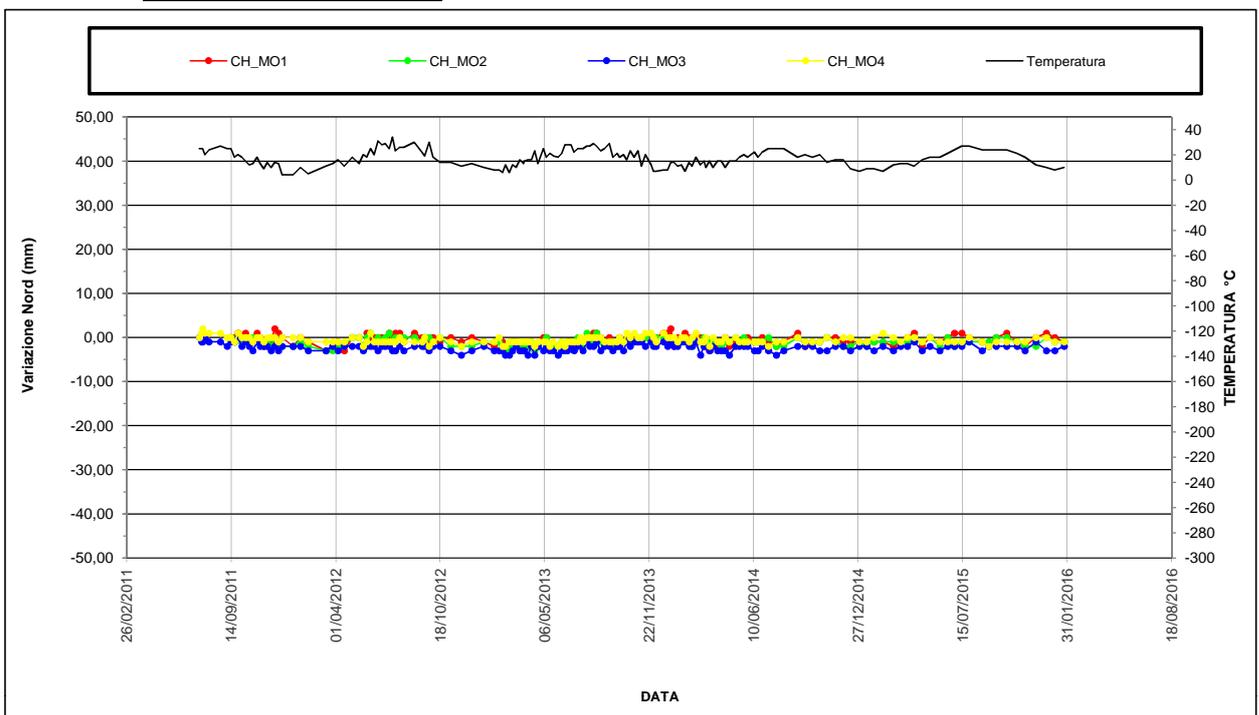


GRAFICO NORD





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 162 in data 25/01/2016

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73	07/06/2013 08:30	21.0	33.2	1.0	0.0	4.0	21.0	33.2	1.0	1.0	6.0	21.0	33.1	-2.0	-6.0	1.0	21.0	33.1	-2.0	-6.0	2.0
74	13/06/2013 14:30	28.0	33.2	2.0	4.0	4.0	28.0	33.2	2.0	3.0	6.0	28.0	33.1	-1.0	-6.0	2.0	28.0	33.1	0.0	-6.0	3.0
75	18/06/2013 09:00	28.0	33.2	1.0	2.0	5.0	28.0	33.2	1.0	2.0	7.0	28.0	33.1	-1.0	-6.0	3.0	28.0	33.1	0.0	-7.0	3.0
76	25/06/2013 18:00	28.0	33.2	2.0	3.0	6.0	28.0	33.2	2.0	3.0	6.0	28.0	33.1	-1.0	-6.0	2.0	28.0	33.1	0.0	-7.0	4.0
77	01/07/2013 07:30	22.0	33.2	2.0	4.0	6.0	22.0	33.2	2.0	3.0	6.0	22.0	33.1	0.0	-8.0	0.0	22.0	33.1	0.0	-8.0	2.0
78	08/07/2013 17:30	25.0	33.2	2.0	3.0	5.0	25.0	33.2	1.0	0.0	6.0	25.0	33.1	1.0	-10.0	0.0	25.0	33.1	1.0	-10.0	0.0
79	13/07/2013 07:30	25.0	33.2	4.0	2.0	5.0	25.0	33.2	1.0	-1.0	8.0	25.0	33.1	-1.0	-9.0	2.0	25.0	33.1	0.0	-9.0	3.0
80	18/07/2013 07:30	25.0	33.2	3.0	2.0	5.0	25.0	33.2	1.0	-1.0	7.0	25.0	33.1	1.0	-8.0	2.0	25.0	33.1	2.0	-8.0	3.0
81	25/07/2013 18:00	27.0	33.2	3.0	4.0	5.0	27.0	33.2	1.0	0.0	8.0	27.0	33.1	0.0	-8.0	1.0	27.0	33.1	0.0	-8.0	3.0
82	31/07/2013 09:00	27.0	33.2	3.0	3.0	6.0	27.0	33.2	1.0	0.0	9.0	27.0	33.1	0.0	-7.0	2.0	27.0	33.1	1.0	-7.0	5.0
83	07/08/2013 09:00	29.0	33.2	2.0	3.0	6.0	29.0	33.2	0.0	0.0	9.0	29.0	33.1	0.0	-7.0	2.0	29.0	33.1	1.0	-7.0	3.0
84	13/08/2013 09:00	27.0	33.2	2.0	3.0	5.0	27.0	33.2	0.0	0.0	8.0	27.0	33.1	-1.0	-7.0	2.0	27.0	33.1	0.0	-8.0	2.0
85	21/08/2013 07:30	23.0	33.2	5.0	4.0	6.0	23.0	33.2	2.0	1.0	9.0	23.0	33.1	0.0	-7.0	2.0	23.0	33.1	0.0	-8.0	3.0
86	28/08/2013 10:30	25.0	33.2	4.0	4.0	5.0	25.0	33.2	2.0	1.0	8.0	25.0	33.1	1.0	-9.0	5.0	25.0	33.1	1.0	-10.0	5.0
87	06/09/2013 17:30						29.0	33.2	2.0	2.0	7.0	29.0	33.1	0.0	-8.0	2.0	29.0	33.1	1.0	-9.0	4.0
88	13/09/2013 07:30	18.0	33.2	4.0	7.0	9.0	18.0	33.2	2.0	2.0	9.0	18.0	33.1	0.0	-7.0	2.0	18.0	33.1	1.0	-8.0	4.0
89	21/09/2013 09:30	21.0	33.2	4.0	6.0	7.0	21.0	33.2	3.0	0.0	7.0	21.0	33.1	0.0	-8.0	3.0	21.0	33.1	0.0	-8.0	4.0
90	26/09/2013 09:30	18.0	33.2	4.0	5.0	6.0	18.0	33.2	2.0	1.0	8.0	18.0	33.1	0.0	-9.0	2.0	18.0	33.1	0.0	-10.0	3.0
91	03/10/2013 16:30	20.0	33.2	4.0	7.0	4.0	20.0	33.2	2.0	3.0	7.0	20.0	33.1	1.0	-8.0	5.0	20.0	33.1	1.0	-8.0	5.0
92	10/10/2013 08:30	16.0	33.2	4.0	6.0	7.0	16.0	33.2	3.0	2.0	10.0	16.0	33.1	0.0	-9.0	3.0	16.0	33.1	1.0	-9.0	4.0
93	16/10/2013 14:30	23.0	33.2	4.0	2.0	6.0	23.0	33.2	2.0	0.0	9.0	23.0	33.1	-2.0	-9.0	3.0	23.0	33.1	-1.0	-9.0	5.0
94	24/10/2013 08:30	18.0	33.2	4.0	3.0	6.0	18.0	33.2	2.0	2.0	9.0	18.0	33.1	-2.0	-8.0	3.0	18.0	33.1	-1.0	-8.0	4.0
95	31/10/2013 14:30	23.0	33.2	5.0	4.0	6.0	23.0	33.2	3.0	2.0	9.0	23.0	33.1	-2.0	-9.0	3.0	23.0	33.1	-1.0	-9.0	3.0
96	07/11/2013 08:30	11.0	33.2	5.0	2.0	6.0	11.0	33.2	3.0	-1.0	9.0	11.0	33.1	-2.0	-9.0	2.0	11.0	33.1	-1.0	-9.0	3.0
97	14/11/2013 14:30	20.0	33.2	5.0	4.0	7.0	20.0	33.2	3.0	2.0	11.0	20.0	33.1	-1.0	-9.0	3.0	20.0	33.1	0.0	-10.0	5.0
98	25/11/2013 15:30	12.0	33.2	5.0	4.0	7.0	12.0	33.2	3.0	1.0	11.0	12.0	33.1	-1.0	-8.0	2.0	12.0	33.1	0.0	-8.0	3.0
99	30/11/2013 08:30	7.0	33.2	5.0	6.0	7.0	7.0	33.2	3.0	3.0	11.0	7.0	33.1	-1.0	-7.0	4.0	7.0	33.1	-1.0	-9.0	3.0
100	05/12/2013 08:30	7.0	33.2	5.0	3.0	6.0	7.0	33.2	3.0	1.0	10.0	7.0	33.1	-1.0	-9.0	4.0	7.0	33.1	0.0	-9.0	5.0
101	19/12/2013 13:00	8.0	33.2	5.0	1.0	4.0	8.0	33.2	3.0	1.0	10.0	8.0	33.1	-2.0	-8.0	4.0	8.0	33.1	-2.0	-8.0	3.0
102	27/12/2013 09:00	8.0	33.2	5.0	0.0	2.0	8.0	33.2	3.0	2.0	9.0	8.0	33.1	-3.0	-7.0	5.0	8.0	33.1	-3.0	-8.0	3.0
103	02/01/2014 07:30	14.0	33.2	5.0	0.0	2.0	14.0	33.2	3.0	2.0	8.0	14.0	33.1	-2.0	-7.0	5.0	14.0	33.1	-3.0	-9.0	3.0
104	08/01/2014 14:30	14.0	33.2	5.0	6.0	7.0	14.0	33.2	3.0	4.0	9.0	14.0	33.1	-1.0	-10.0	4.0	14.0	33.1	-2.0	-10.0	4.0
105	15/01/2014 08:30	11.0	33.2	6.0	6.0	7.0	11.0	33.2	3.0	2.0	9.0	11.0	33.1	-1.0	-10.0	2.0	11.0	33.1	0.0	-10.0	3.0
106	22/01/2014 14:30	12.0	33.2	6.0	4.0	7.0	12.0	33.2	3.0	1.0	10.0	12.0	33.1	-1.0	-10.0	3.0	12.0	33.1	-1.0	-10.0	3.0
107	29/01/2014 08:30	7.0	33.2	5.0	3.0	7.0	7.0	33.2	2.0	0.0	10.0	7.0	33.1	-1.0	-9.0	2.0	7.0	33.1	0.0	-9.0	4.0
108	06/02/2014 14:30	14.0	33.2	5.0	5.0	6.0	14.0	33.2	2.0	1.0	10.0	14.0	33.1	-2.0	-10.0	6.0	14.0	33.1	-2.0	-10.0	6.0
109	12/02/2014 08:30	11.0	33.2	5.0	4.0	5.0	11.0	33.2	2.0	1.0	9.0	11.0	33.1	-2.0	-7.0	8.0	11.0	33.1	-1.0	-8.0	8.0
110	19/02/2014 14:30	18.0	33.2	5.0	2.0	7.0	18.0	33.2	3.0	0.0	10.0	18.0	33.1	-1.0	-9.0	6.0	18.0	33.1	-1.0	-10.0	5.0
111	28/02/2014 08:30	12.0	33.2	5.0	-1.0	4.0						12.0	33.1	-1.0	-8.0	7.0	12.0	33.1	-1.0	-9.0	8.0
112	06/03/2014 16:30	15.0	33.2	5.0	2.0	6.0	15.0	33.2	-1.0	-3.0	8.0	15.0	33.1	-1.0	-9.0	8.0	15.0	33.1	-1.0	-8.0	7.0
113	10/03/2014 08:30	10.0	33.2	5.0	4.0	6.0	10.0	33.2	-1.0	0.0	9.0	10.0	33.1	-1.0	-9.0	7.0	10.0	33.1	-1.0	-10.0	6.0
114	17/03/2014 15:30	15.0	33.2	5.0	1.0	5.0	15.0	33.2	0.0	-2.0	7.0	15.0	33.1	-1.0	-8.0	7.0	15.0	33.1	-1.0	-8.0	8.0
115	24/03/2014 08:30	10.0	33.2	5.0	2.0	7.0	10.0	33.2	0.0	-3.0	9.0	10.0	33.1	-1.0	-9.0	7.0	10.0	33.1	-1.0	-9.0	6.0
116	01/04/2014 18:30	15.0	33.2	5.0	0.0	6.0	15.0	33.2	1.0	-2.0	8.0	15.0	33.1	-1.0	-10.0	9.0	15.0	33.1	-1.0	-10.0	9.0
117	09/04/2014 08:30	15.0	33.2	5.0	2.0	6.0	15.0	33.2	1.0	0.0	7.0	15.0	33.1	-1.0	-9.0	8.0	15.0	33.1	-1.0	-9.0	8.0
118	16/04/2014 08:30	10.0	33.2	4.0	4.0	7.0	10.0	33.2	1.0	0.0	9.0	10.0	33.1	-1.0	-10.0	8.0	10.0	33.1	-1.0	-12.0	8.0
119	24/04/2014 08:30	15.0	33.2	4.0	1.0	4.0	15.0	33.2	1.0	-2.0	8.0	15.0	33.1	-1.0	-10.0	8.0	15.0	33.1	-1.0	-10.0	8.0
120	06/05/2014 08:30	15.0	33.2	4.0	2.0	8.0	15.0	33.2	1.0	0.0	10.0	15.0	33.1	-1.0	-9.0	6.0	15.0	33.1	-1.0	-9.0	7.0
121	13/05/2014 08:30	18.0	33.2	4.0	5.0	8.0	18.0	33.2	1.0	2.0	9.0	18.0	33.1	-1.0	-8.0	9.0	18.0	33.1	-1.0	-10.0	7.0
122	22/05/2014 08:30	20.0	33.2	4.0	3.0	8.0	20.0	33.2	1.0	1.0	10.0	20.0	33.1	-1.0	-10.0	7.0	20.0	33.1	-1.0	-11.0	7.0
123	29/05/2014 08:30	18.0	33.2	4.0	5.0	8.0	18.0	33.2	1.0	1.0	10.0	18.0	33.1	-1.0	-11.0	8.0	18.0	33.1	-1.0	-11.0	9.0
124	11/06/2014 08:30	22.0	33.2	4.0	3.0	8.0	22.0	33.2	1.0	1.0	11.0	22.0	33.1	-1.0	-10.0	9.0	22.0	33.1	-1.0	-11.0	8.0
125	18/06/2014 08:30	18.0	33.2	4.0	4.0	10.0	18.0	33.2	1.0	2.0	12.0	18.0	33.1	-1.0	-11.0	6.0	18.0	33.1	-1.0	-12.0	8.0
126	26/06/2014 08:30	22.0	33.2	4.0	3.0	6.0	22.0	33.2	1.0	0.0	10.0	22.0	33.1	-1.0	-9.0	8.0	22.0	33.1	-1.0	-10.0	8.0
127	08/07/2014 08:30	25.0	33.2	4.0	4.0	6.0	25.0	33.2	1.0	0.0	12.0	25.0	33.1	-1.0	-11.0	6.0	25.0	33.1	-1.0	-12.0	7.0
128	23/07/2014 08:30	25.0	33.2	4.0	6.0	6.0	25.0	33.2	1.0	2.0	13.0	25.0	33.1								



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

GRAFICO QUOTA

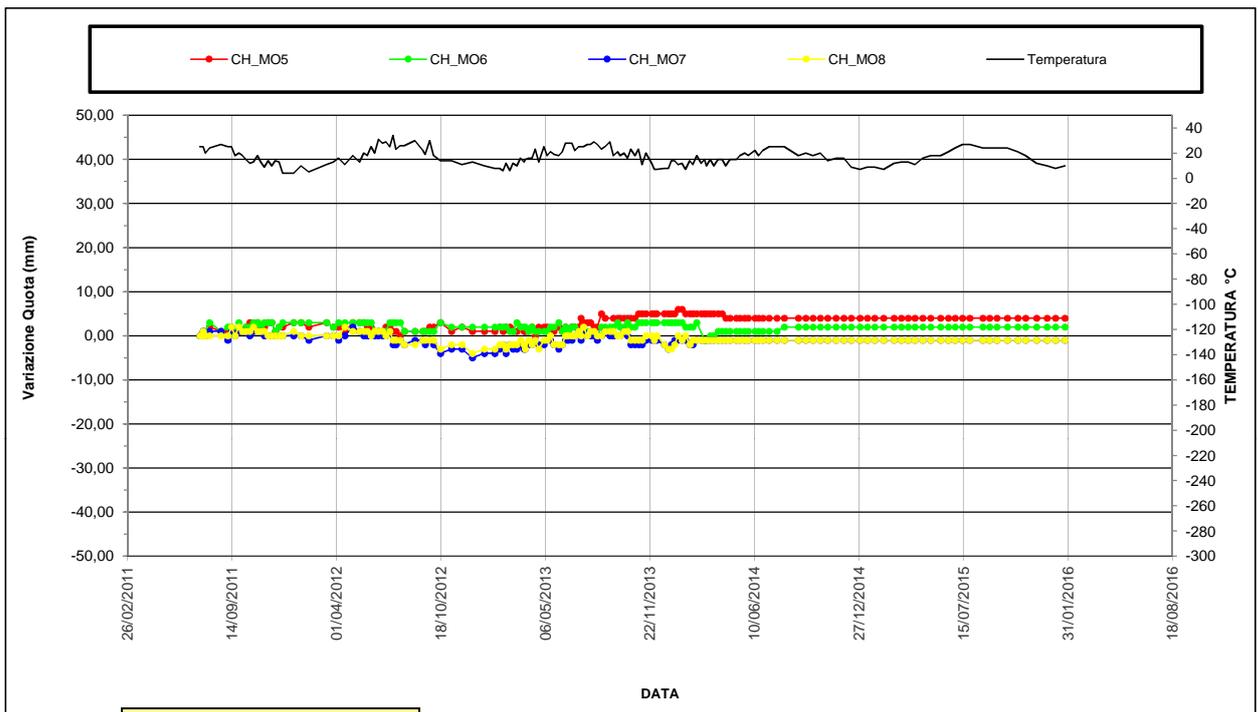
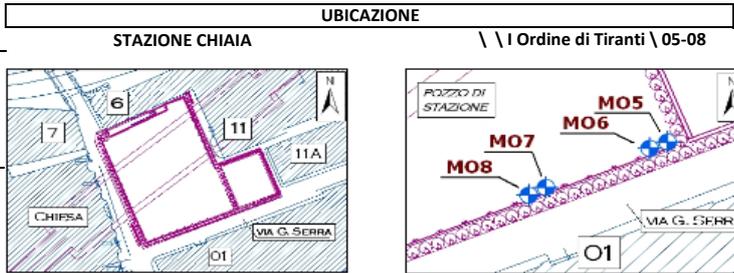
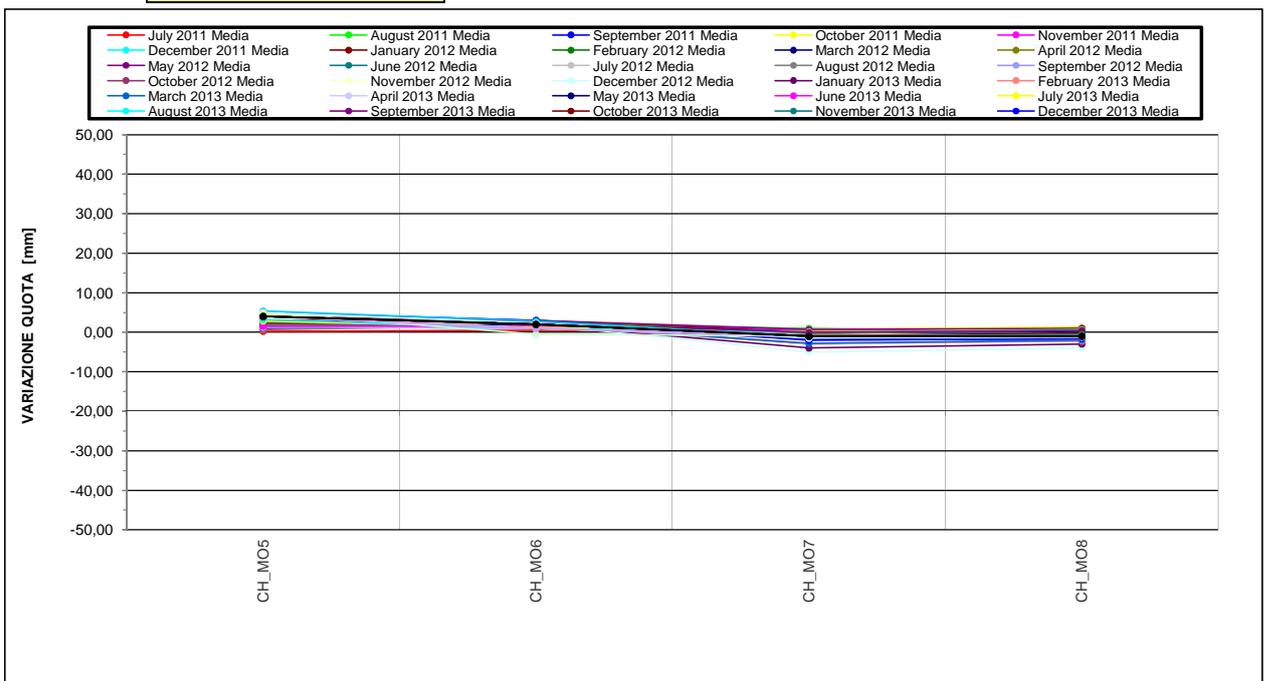


GRAFICO ISOCRONE





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

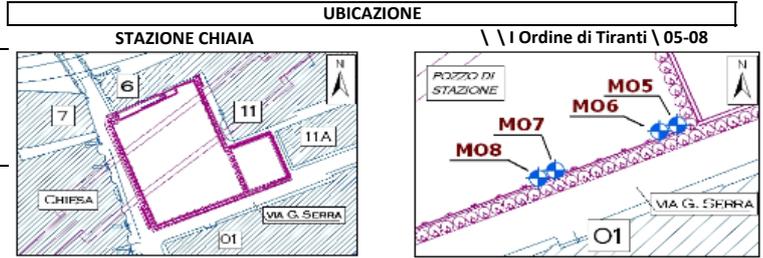


GRAFICO EST

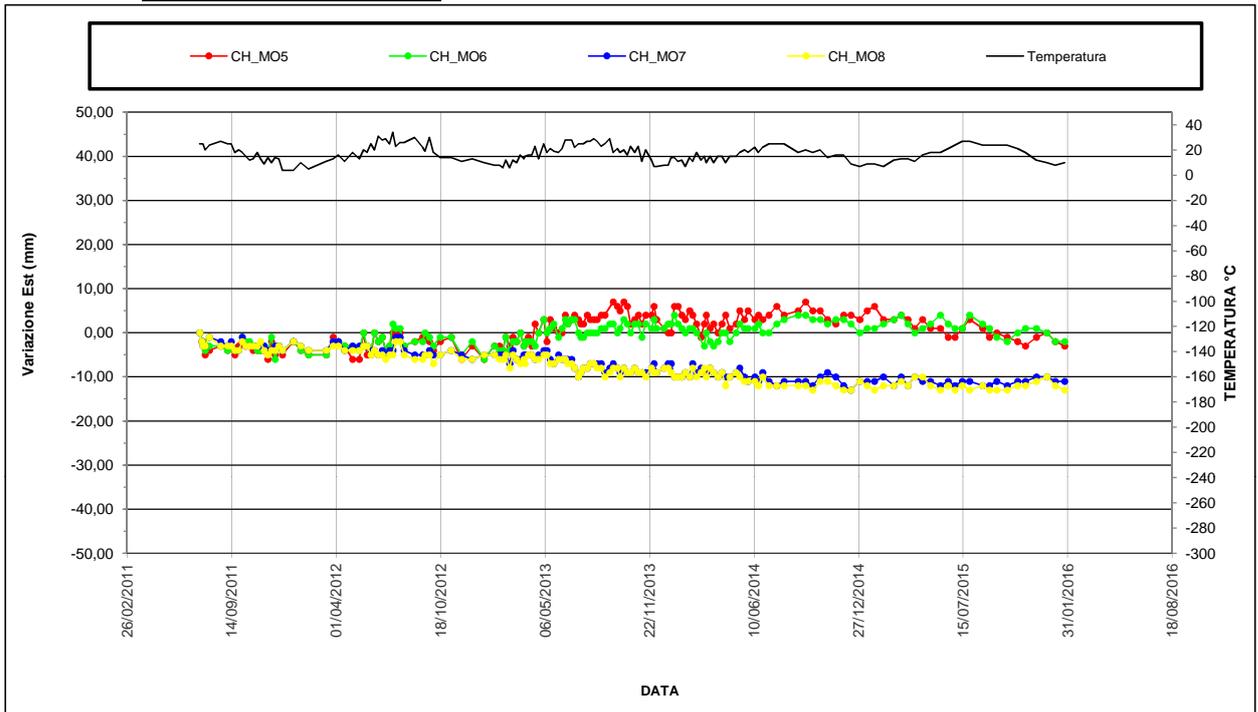
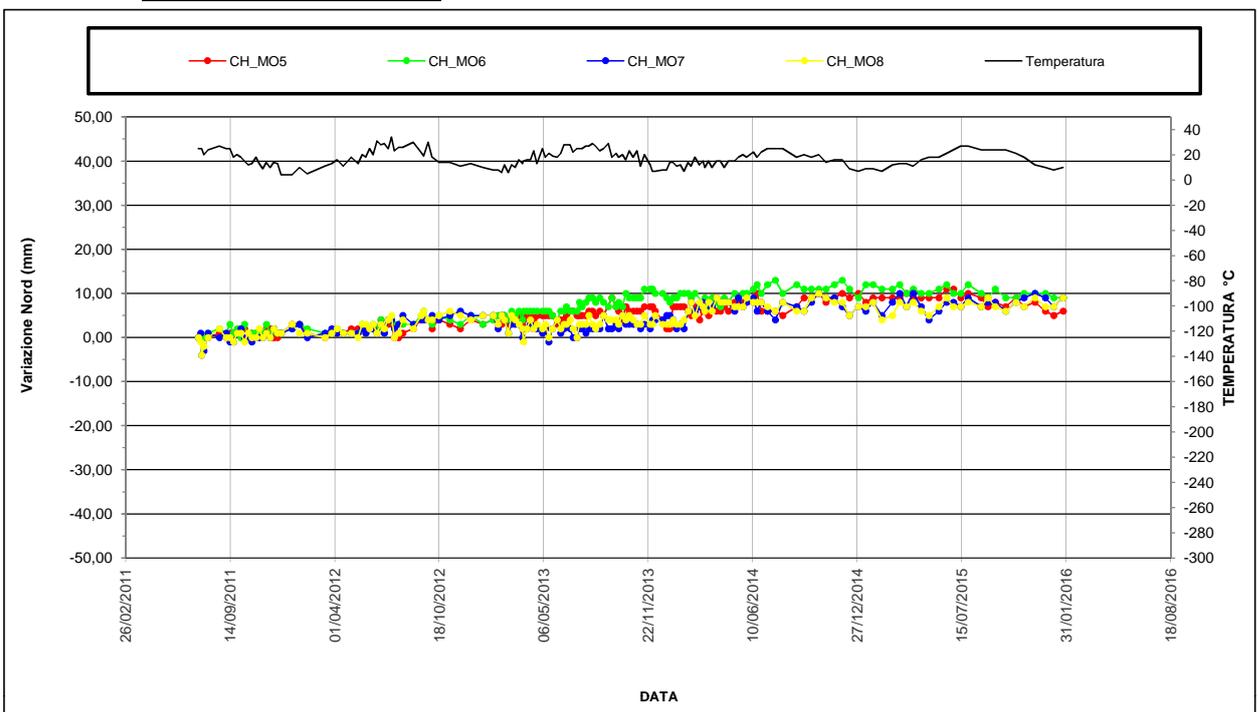


GRAFICO NORD





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 162 in data 25/01/2016

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]
72	31/05/2013 15:30	18,0	34,1	-2,0	-3,0	2,0	18,0	34,0	-2,0	1,0	2,0	18,0	34,0	-2,0	0,0	3,0	18,0	34,1	-1,0	-3,0	3,0
73	07/06/2013 08:30	21,0	34,1	-2,0	-4,0	2,0	21,0	34,0	-2,0	0,0	1,0	21,0	34,0	-2,0	0,0	2,0	21,0	34,1	-1,0	-4,0	2,0
74	13/06/2013 14:30	28,0	34,1	0,0	-4,0	1,0	28,0	34,0	-1,0	1,0	1,0	28,0	34,0	0,0	2,0	2,0	28,0	34,1	1,0	-3,0	2,0
75	18/06/2013 09:00	28,0	34,1	0,0	-5,0	1,0	28,0	34,0	-1,0	1,0	1,0	28,0	34,0	-1,0	1,0	1,0	28,0	34,1	0,0	-4,0	2,0
76	25/06/2013 18:00	28,0	34,1	-1,0	-5,0	1,0	28,0	34,0	-2,0	1,0	1,0	28,0	34,0	-2,0	1,0	1,0	28,0	34,1	1,0	-5,0	1,0
77	01/07/2013 07:30	22,0	34,1	0,0	-6,0	1,0	22,0	34,0	-2,0	0,0	1,0	22,0	34,0	-2,0	0,0	1,0	22,0	34,1	0,0	-4,0	1,0
78	08/07/2013 17:30	25,0	34,1	1,0	-8,0	0,0	25,0	34,0	0,0	-2,0	0,0	25,0	34,0	0,0	-1,0	1,0	25,0	34,1	2,0	-7,0	0,0
79	13/07/2013 07:30	25,0	34,1	0,0	-6,0	1,0	25,0	34,0	-2,0	0,0	2,0	25,0	34,0	-2,0	0,0	1,0	25,0	34,1	0,0	-7,0	2,0
80	18/07/2013 07:30	25,0	34,1	1,0	-6,0	0,0	25,0	34,0	-1,0	1,0	1,0	25,0	34,0	0,0	1,0	1,0	25,0	34,1	2,0	-5,0	0,0
81	25/07/2013 18:00	27,0	34,1	0,0	-6,0	1,0	27,0	34,0	-1,0	1,0	1,0	27,0	34,0	-1,0	1,0	1,0	27,0	34,1	1,0	-6,0	2,0
82	31/07/2013 09:00	27,0	34,1	0,0	-5,0	1,0	27,0	34,0	-1,0	1,0	0,0	27,0	34,0	-1,0	1,0	2,0	27,0	34,1	1,0	-4,0	2,0
83	07/08/2013 09:00	29,0	34,1	0,0	-5,0	0,0	29,0	34,0	-1,0	1,0	0,0	29,0	34,0	-2,0	1,0	2,0	29,0	34,1	1,0	-4,0	1,0
84	13/08/2013 09:00	27,0	34,1	-1,0	-6,0	-1,0	27,0	34,0	-2,0	1,0	1,0	27,0	34,0	-3,0	0,0	1,0	27,0	34,1	0,0	-5,0	0,0
85	21/08/2013 07:30	23,0	34,1	0,0	-5,0	1,0	23,0	34,0	-1,0	1,0	1,0	23,0	34,0	-2,0	2,0	2,0	23,0	34,1	1,0	-5,0	2,0
86	28/08/2013 10:30	25,0	34,1	1,0	-7,0	3,0	25,0	34,0	0,0	-1,0	4,0	25,0	34,0	0,0	-1,0	4,0	25,0	34,1	2,0	-6,0	5,0
87	06/09/2013 17:30	29,0	34,1	0,0	-7,0	1,0	29,0	34,0	-1,0	-1,0	1,0	29,0	34,0	-1,0	1,0	1,0	29,0	34,1	1,0	-6,0	2,0
88	13/09/2013 07:30	18,0	34,1	0,0	-5,0	2,0	18,0	34,0	-1,0	1,0	1,0	18,0	34,0	-1,0	1,0	1,0	18,0	34,1	1,0	-5,0	1,0
89	21/09/2013 09:30	21,0	34,1	0,0	-6,0	1,0	21,0	34,0	-3,0	0,0	1,0	21,0	34,0	-2,0	1,0	1,0	21,0	34,1	0,0	-5,0	2,0
90	26/09/2013 09:30	18,0	34,1	0,0	-7,0	1,0	18,0	34,0	-2,0	-1,0	1,0	18,0	34,0	-2,0	-1,0	2,0	18,0	34,1	0,0	-6,0	1,0
91	03/10/2013 16:30	20,0	34,1	0,0	-7,0	1,0	20,0	34,0	-3,0	0,0	1,0	20,0	34,0	-2,0	-1,0	2,0	20,0	34,1	0,0	-5,0	2,0
92	10/10/2013 08:30	16,0	34,1	0,0	-6,0	1,0	16,0	34,0	-2,0	0,0	2,0	16,0	34,0	-1,0	1,0	3,0	16,0	34,1	1,0	-6,0	2,0
93	16/10/2013 14:30	23,0	34,1	-1,0	-7,0	3,0	23,0	34,0	-3,0	-1,0	2,0	23,0	34,0	-2,0	1,0	3,0	23,0	34,1	0,0	-6,0	3,0
94	24/10/2013 08:30	18,0	34,1	-1,0	-5,0	1,0	18,0	34,0	-3,0	1,0	1,0	18,0	34,0	-3,0	1,0	2,0	18,0	34,1	0,0	-4,0	2,0
95	31/10/2013 14:30	23,0	34,1	-1,0	-6,0	3,0	23,0	34,0	-3,0	0,0	2,0	23,0	34,0	-3,0	0,0	3,0	23,0	34,1	0,0	-5,0	3,0
96	07/11/2013 08:30	11,0	34,1	-1,0	-7,0	1,0	11,0	34,0	-3,0	0,0	0,0	11,0	34,0	-3,0	0,0	1,0	11,0	34,1	0,0	-5,0	1,0
97	14/11/2013 14:30	20,0	34,1	-1,0	-6,0	3,0	20,0	34,0	-3,0	0,0	2,0	20,0	34,0	-2,0	1,0	3,0	20,0	34,1	0,0	-6,0	3,0
98	25/11/2013 15:30	12,0	34,1	-1,0	-5,0	2,0	12,0	34,0	-3,0	1,0	2,0	12,0	34,0	-2,0	1,0	1,0	12,0	34,1	0,0	-4,0	2,0
99	30/11/2013 08:30	7,0	34,1	-1,0	-5,0	3,0	7,0	34,0	-3,0	1,0	2,0	7,0	34,0	-2,0	1,0	3,0	7,0	34,1	0,0	-4,0	3,0
100	05/12/2013 08:30	7,0	34,1	-1,0	-7,0	2,0	7,0	34,0	-3,0	-1,0	1,0	7,0	34,0	-2,0	0,0	3,0	7,0	34,1	0,0	-6,0	2,0
101	19/12/2013 13:00	8,0	34,1	-2,0	-6,0	1,0	8,0	34,0	-4,0	0,0	2,0	8,0	34,0	-4,0	-1,0	2,0	8,0	34,1	-1,0	-5,0	3,0
102	27/12/2013 09:00	8,0	34,1	-2,0	-6,0	1,0	8,0	34,0	-5,0	0,0	3,0	8,0	34,0	-5,0	-1,0	2,0	8,0	34,1	-2,0	-5,0	4,0
103	02/01/2014 07:30	14,0	34,1	-2,0	-7,0	2,0	14,0	34,0	-5,0	-1,0	2,0	14,0	34,0	-5,0	0,0	3,0	14,0	34,1	-1,0	-6,0	5,0
104	08/01/2014 14:30	14,0	34,1	-2,0	-6,0	3,0	14,0	34,0	-4,0	-1,0	3,0	14,0	34,0	-4,0	-1,0	4,0	14,0	34,1	0,0	-7,0	2,0
105	15/01/2014 08:30	11,0	34,1	-1,0	-8,0	1,0	11,0	34,0	-4,0	-1,0	1,0	11,0	34,0	-3,0	-1,0	2,0	11,0	34,1	0,0	-7,0	3,0
106	22/01/2014 14:30	12,0	34,1	0,0	-7,0	3,0	12,0	34,0	-3,0	-1,0	0,0	12,0	34,0	-2,0	-1,0	2,0	12,0	34,1	0,0	-6,0	3,0
107	29/01/2014 08:30	7,0	34,1	0,0	-7,0	2,0	7,0	34,0	-3,0	0,0	2,0	7,0	34,0	-3,0	-1,0	1,0	7,0	34,1	0,0	-6,0	2,0
108	06/02/2014 14:30	14,0	34,1	-2,0	-9,0	1,0	14,0	34,0	-3,0	-2,0	3,0	14,0	34,0	-3,0	-1,0	3,0	14,0	34,1	-1,0	-8,0	2,0
109	12/02/2014 08:30	11,0	34,1	-2,0	-7,0	3,0	11,0	34,0	-3,0	0,0	4,0	11,0	34,0	-3,0	1,0	5,0	11,0	34,1	-1,0	-5,0	6,0
110	19/02/2014 14:30	18,0	34,1	-2,0	-7,0	3,0	18,0	34,0	-3,0	-1,0	2,0	18,0	34,0	-3,0	1,0	3,0	18,0	34,1	-1,0	-7,0	3,0
111	28/02/2014 08:30	12,0	34,1	-1,0	-7,0	5,0	12,0	34,0	-3,0	0,0	4,0	12,0	34,0	-3,0	-1,0	4,0	12,0	34,1	-1,0	-6,0	4,0
112	06/03/2014 16:30	15,0	34,1	-1,0	-6,0	2,0	15,0	34,0	-3,0	-1,0	3,0	15,0	34,0	-3,0	0,0	5,0	15,0	34,1	-1,0	-6,0	3,0
113	10/03/2014 08:30	10,0	34,1	-1,0	-8,0	3,0	10,0	34,0	-3,0	-3,0	3,0	10,0	34,0	-3,0	0,0	4,0	10,0	34,1	-1,0	-7,0	4,0
114	17/03/2014 15:30	15,0	34,1	-1,0	-6,0	4,0	15,0	34,0	-3,0	0,0	4,0	15,0	34,0	-3,0	0,0	4,0	15,0	34,1	-1,0	-6,0	4,0
115	24/03/2014 08:30	10,0	34,1	-1,0	-8,0	3,0	10,0	34,0	-3,0	0,0	2,0	10,0	34,0	-3,0	0,0	3,0	10,0	34,1	-1,0	-7,0	4,0
116	01/04/2014 18:30	15,0	34,1	-1,0	-9,0	4,0	15,0	34,0	-3,0	-1,0	4,0	15,0	34,0	-3,0	-2,0	5,0	15,0	34,1	0,0	-7,0	5,0
117	09/04/2014 08:30	15,0	34,1	-1,0	-8,0	3,0	15,0	34,0	-3,0	-1,0	3,0	15,0	34,0	-3,0	-1,0	3,0	15,0	34,1	-1,0	-6,0	4,0
118	16/04/2014 08:30	10,0	34,1	-1,0	-10,0	4,0	10,0	34,0	-3,0	-3,0	4,0	10,0	34,0	-3,0	-1,0	6,0	10,0	34,1	-1,0	-8,0	5,0
119	24/04/2014 08:30	15,0	34,1	-1,0	-8,0	4,0	15,0	34,0	-3,0	-1,0	2,0	15,0	34,0	-3,0	-1,0	5,0	15,0	34,1	-1,0	-8,0	6,0
120	06/05/2014 08:30	15,0	34,1	-1,0	-9,0	2,0	15,0	34,0	-4,0	0,0	2,0	15,0	34,0	-3,0	1,0	3,0	15,0	34,1	-1,0	-7,0	4,0
121	13/05/2014 08:30	18,0	34,1	-1,0	-8,0	1,0	18,0	34,0	-4,0	0,0	2,0	18,0	34,0	-3,0	0,0	4,0	18,0	34,1	-1,0	-6,0	4,0
122	22/05/2014 08:30	20,0	34,1	-1,0	-8,0	3,0	20,0	34,0	-3,0	-1,0	2,0	20,0	34,0	-3,0	-1,0	2,0	20,0	34,1	0,0	-7,0	4,0
123	29/05/2014 08:30	18,0	34,1	-1,0	-8,0	3,0	18,0	34,0	-3,0	-2,0	2,0	18,0	34,0	-3,0	-1,0	4,0	18,0	34,1	-1,0	-9,0	3,0
124	11/06/2014 08:30	22,0	34,1	-1,0	-8,0	4,0	22,0	34,0	-3,0	-1,0	3,0	22,0	34,0	-3,0	0,0	4,0	22,0	34,1	-1,0	-8,0	5,0
125	18/06/2014 08:30	18,0	34,1	-1,0	-9,0	3,0	18,0	34,0	-3,0	-2,0	2,0	18,0	34,0	-3,0	-1,0	3,0	18,0	34,1	-1,0	-8,0	5,0
126	26/06/2014 08:30	22,0	34,1	-1,0	-9,0	2,0	22,0	34,0	-3,0	-1,0	2,0	22,0	34,0	-3,0	0,0	4,0	22,0	34,1	-1,0	-8,0	3,0
127	08/07/2014 08:30	25,0	34,1	-1,0	-10,0	1,0	25,0	34,0	-3,0	1,0	3,0	25,0	34,0	-3,0	0,0	3,0	25,0	34,1	-1,0	-7,0	4,0
128	23/07/2014 08:30	25,0	34,1	-1,0	-10,0	0,0	25,0	34													



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

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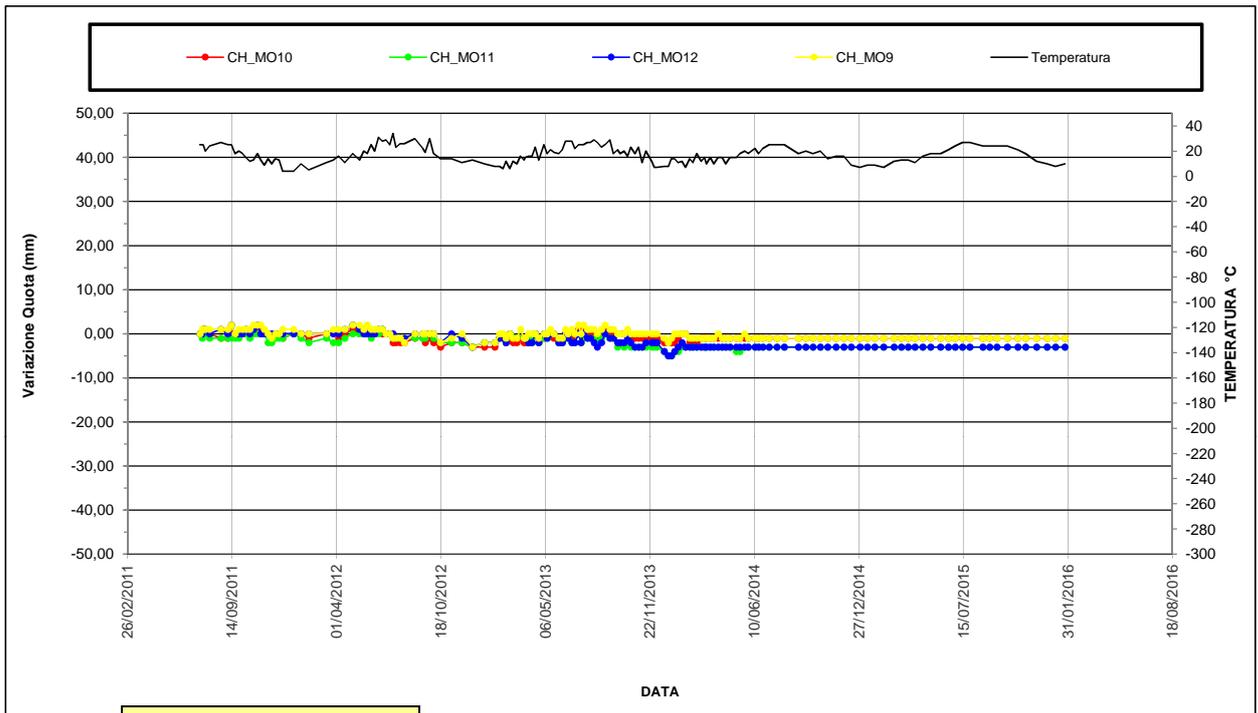
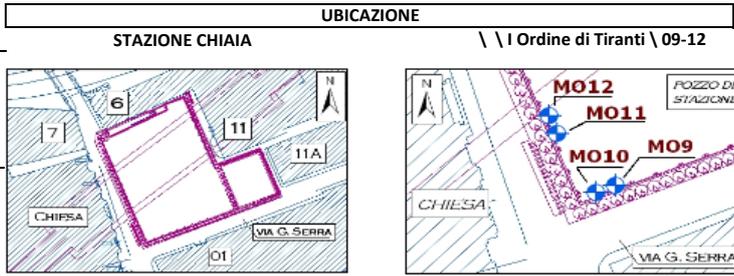
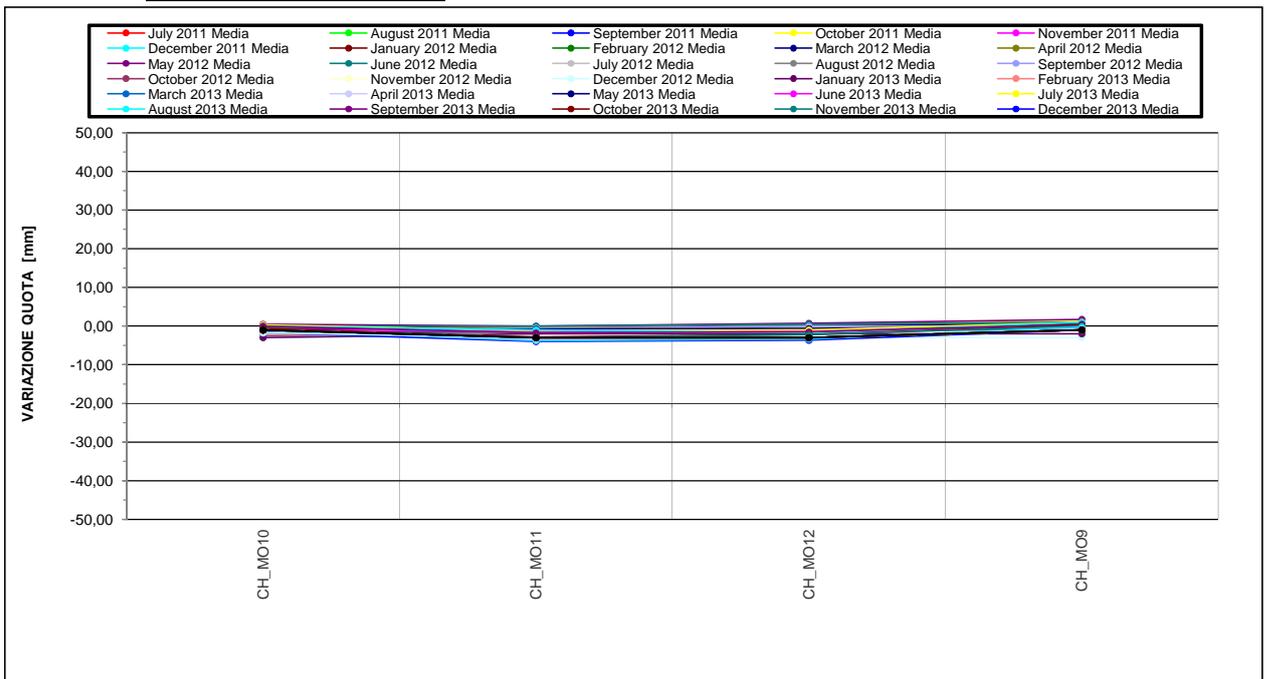


GRAFICO ISOCRONE





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

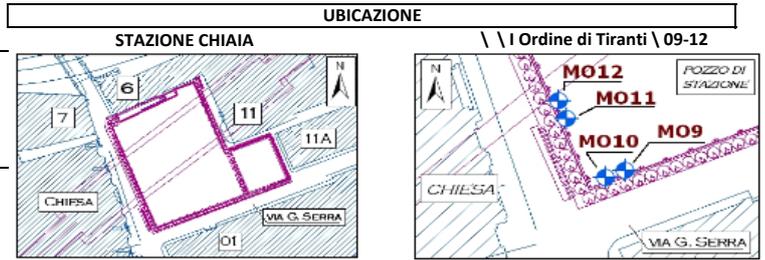


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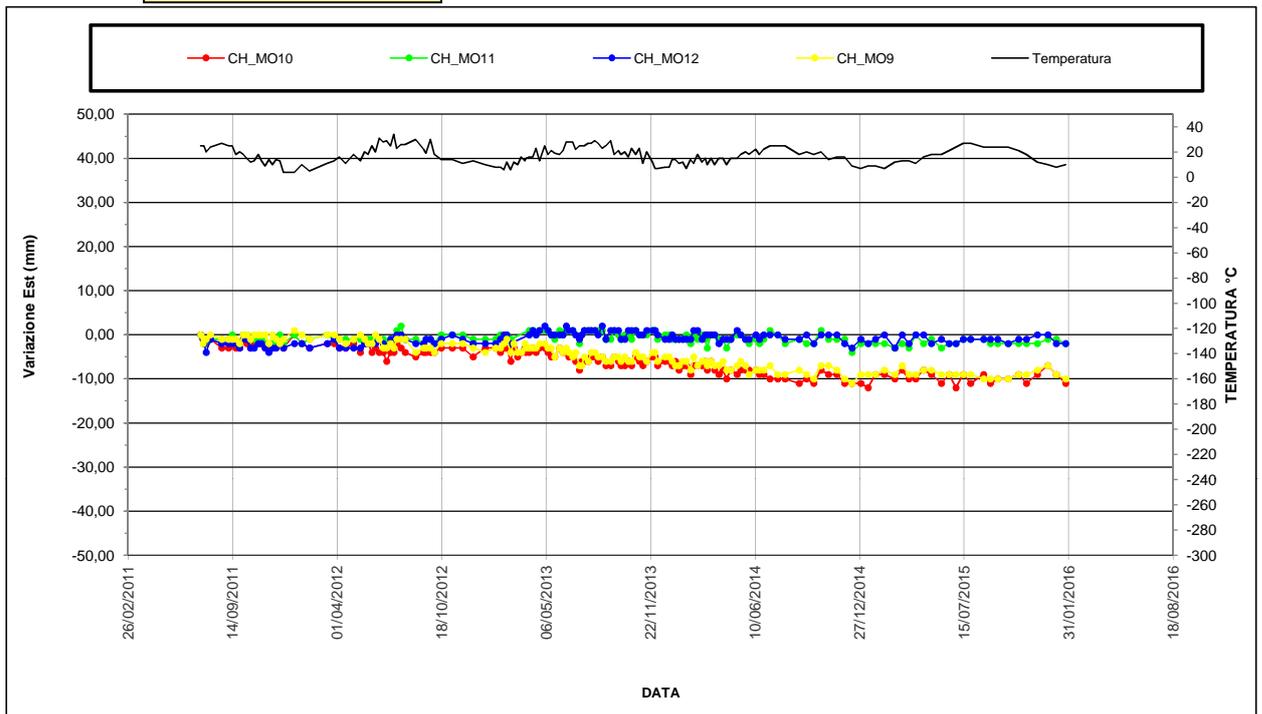
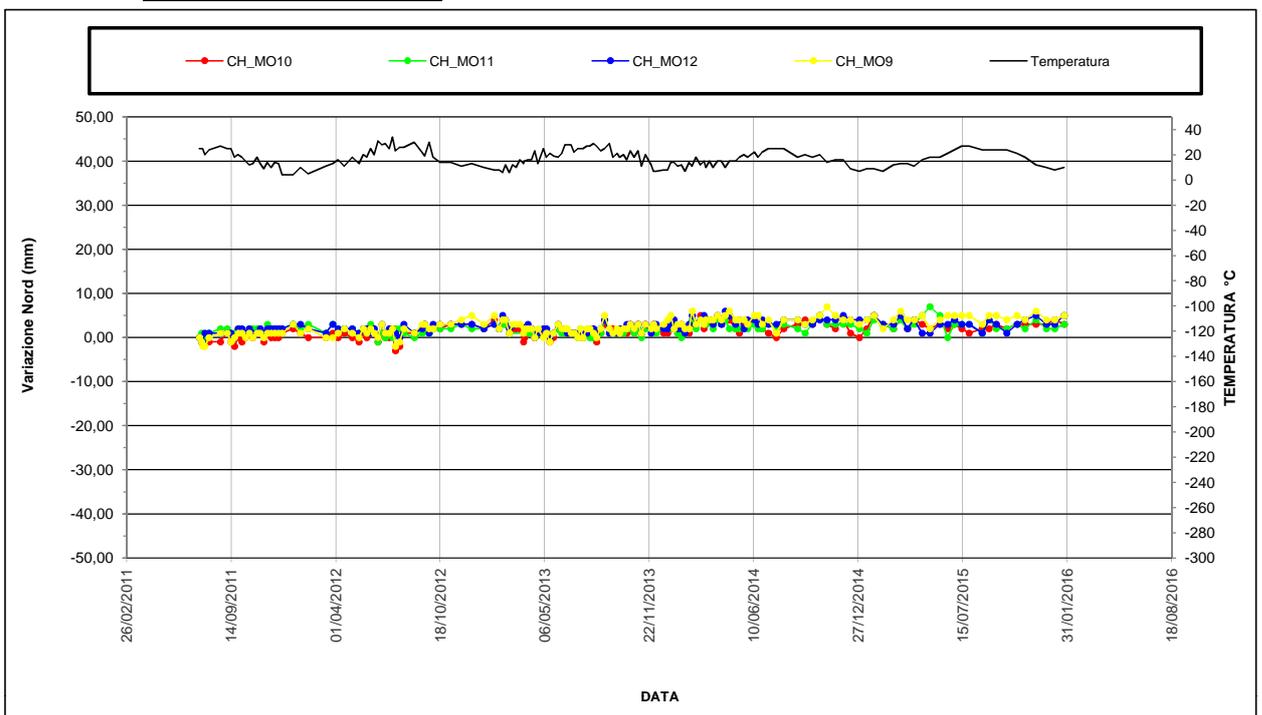


GRAFICO NORD





Ubicazione STAZIONE CHIAIA

Opera \ \ 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

91

in
data

25/01/2016

Letto. n°	DATA	CH_M013					CH_M014					CH_M015					CH_M016				
		Temp. Media[° C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media[° C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media[° C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media[° C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]
1	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
2	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
3	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
4	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
5	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
6	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
7	08/07/2013 17:30	25,0	34,0	-2,0	1,0	0,0	25,0	34,0	-1,0	2,0	0,0	25,0	34,6	2,0	0,0	0,0	25,0	34,6	2,0	1,0	0,0
8	13/07/2013 07:30	25,0	34,0	-3,0	4,0	2,0	25,0	34,0	-2,0	3,0	1,0	25,0	34,6	0,0	1,0	1,0	25,0	34,6	0,0	1,0	1,0
9	18/07/2013 07:30	25,0	34,0	-2,0	3,0	0,0	25,0	34,0	0,0	4,0	1,0	25,0	34,6	2,0	1,0	0,0	25,0	34,6	2,0	2,0	0,0
10	25/07/2013 18:00	27,0	34,0	-3,0	4,0	0,0	27,0	34,0	-1,0	4,0	1,0	27,0	34,6	1,0	1,0	0,0	27,0	34,6	1,0	2,0	0,0
11	31/07/2013 09:00	27,0	34,0	-2,0	5,0	0,0	27,0	34,0	-1,0	4,0	1,0	27,0	34,6	1,0	1,0	0,0	27,0	34,6	1,0	2,0	0,0
12	07/08/2013 09:00	29,0	34,0	-4,0	4,0	0,0	29,0	34,0	-1,0	4,0	1,0	29,0	34,6	1,0	1,0	1,0	29,0	34,6	1,0	1,0	0,0
13	13/08/2013 09:00	27,0	34,0	-4,0	3,0	1,0	27,0	34,0	-2,0	3,0	2,0	27,0	34,6	0,0	0,0	2,0	27,0	34,6	0,0	0,0	1,0
14	21/08/2013 07:30	23,0	34,0	-3,0	4,0	0,0	23,0	34,0	-1,0	6,0	2,0	23,0	34,6	2,0	2,0	1,0	23,0	34,6	1,0	3,0	1,0
15	28/08/2013 10:30	25,0	34,0	-1,0	3,0	2,0	25,0	34,0	0,0	3,0	4,0	25,0	34,6	3,0	0,0	2,0	25,0	34,6	3,0	0,0	2,0
16	06/09/2013 17:30	29,0	34,0	-2,0	4,0	1,0	29,0	34,0	-1,0	3,0	1,0	29,0	34,6	2,0	1,0	0,0	29,0	34,6	2,0	1,0	-1,0
17	13/09/2013 07:30	18,0	34,0	-3,0	4,0	0,0	18,0	34,0	-1,0	4,0	1,0	18,0	34,6	1,0	2,0	0,0	18,0	34,6	1,0	3,0	0,0
18	21/09/2013 09:30	21,0	34,0	-3,0	4,0	0,0	21,0	34,0	-2,0	4,0	2,0	21,0	34,6	0,0	0,0	0,0	21,0	34,6	0,0	1,0	0,0
19	26/09/2013 09:30	18,0	34,0	-3,0	3,0	1,0	18,0	34,0	-2,0	3,0	2,0	18,0	34,6	1,0	0,0	0,0	18,0	34,6	1,0	1,0	0,0
20	03/10/2013 16:30	20,0	34,0	-3,0	3,0	2,0	20,0	34,0	-1,0	3,0	2,0	20,0	34,6	1,0	-1,0	1,0	20,0	34,6	1,0	1,0	1,0
21	10/10/2013 08:30	16,0	34,0	-2,0	3,0	1,0	16,0	34,0	-1,0	4,0	2,0	16,0	34,6	1,0	1,0	0,0	16,0	34,6	1,0	1,0	-1,0
22	16/10/2013 14:30	23,0	34,0	-3,0	3,0	1,0	23,0	34,0	-2,0	3,0	2,0	23,0	34,6	0,0	0,0	1,0	23,0	34,6	0,0	1,0	0,0
23	24/10/2013 08:30	18,0	34,0	-3,0	5,0	1,0	18,0	34,0	-2,0	5,0	2,0	18,0	34,6	0,0	2,0	0,0	18,0	34,6	0,0	3,0	-1,0
24	31/10/2013 14:30	23,0	34,0	-4,0	3,0	1,0	23,0	34,0	-2,0	4,0	2,0	23,0	34,6	0,0	0,0	1,0	23,0	34,6	0,0	1,0	0,0
25	07/11/2013 08:30	11,0	34,0	-4,0	4,0	1,0	11,0	34,0	-2,0	4,0	1,0	11,0	34,6	0,0	1,0	0,0	11,0	34,6	0,0	2,0	-1,0
26	14/11/2013 14:30	20,0	34,0	-4,0	4,0	2,0	20,0	34,0	-2,0	3,0	3,0	20,0	34,6	0,0	0,0	1,0	20,0	34,6	0,0	2,0	0,0
27	25/11/2013 15:30	12,0	34,0	-4,0	4,0	0,0	12,0	34,0	-2,0	5,0	1,0	12,0	34,6	0,0	2,0	0,0	12,0	34,6	0,0	2,0	0,0
28	30/11/2013 08:30	7,0	34,0	-4,0	5,0	3,0	7,0	34,0	-2,0	5,0	2,0	7,0	34,6	0,0	2,0	1,0	7,0	34,6	0,0	3,0	1,0
29	05/12/2013 08:30	7,0	34,0	-4,0	3,0	1,0	7,0	34,0	-2,0	4,0	3,0	7,0	34,6	0,0	1,0	0,0	7,0	34,6	0,0	3,0	1,0
30	19/12/2013 13:00	8,0	34,0	-5,0	2,0	1,0	8,0	34,0	-3,0	3,0	2,0	8,0	34,6	-1,0	0,0	2,0	8,0	34,6	-1,0	2,0	2,0
31	27/12/2013 09:00	8,0	34,0	-6,0	2,0	2,0	8,0	34,0	-4,0	2,0	3,0	8,0	34,6	-2,0	0,0	3,0	8,0	34,6	-2,0	1,0	3,0
32	02/01/2014 07:30	14,0	34,0	-7,0	1,0	2,0	14,0	34,0	-5,0	3,0	3,0	14,0	34,6	-2,0	0,0	4,0	14,0	34,6	-3,0	2,0	2,0
33	08/01/2014 14:30	14,0	34,0	-4,0	3,0	3,0	14,0	34,0	-3,0	2,0	3,0	14,0	34,6	-1,0	-1,0	2,0	14,0	34,6	-1,0	0,0	1,0
34	15/01/2014 08:30	11,0	34,0	-4,0	3,0	1,0	11,0	34,0	-2,0	3,0	2,0	11,0	34,6	0,0	1,0	0,0	11,0	34,6	-1,0	2,0	0,0
35	22/01/2014 14:30	12,0	34,0	-3,0	2,0	1,0	12,0	34,0	-2,0	4,0	3,0	12,0	34,6	0,0	1,0	0,0	12,0	34,6	-1,0	1,0	0,0
36	29/01/2014 08:30	7,0	34,0	-4,0	3,0	2,0	7,0	34,0	-2,0	5,0	3,0	7,0	34,6	0,0	2,0	1,0	7,0	34,6	0,0	3,0	1,0
37	06/02/2014 14:30	14,0	34,0	-4,0	2,0	3,0	14,0	34,0	-2,0	4,0	5,0	14,0	34,6	-1,0	0,0	2,0	14,0	34,6	-1,0	1,0	2,0
38	12/02/2014 08:30	11,0	34,0	-4,0	4,0	4,0	11,0	34,0	-2,0	5,0	5,0	11,0	34,6	-1,0	1,0	3,0	11,0	34,6	-1,0	2,0	3,0
39	19/02/2014 14:30	18,0	34,0	-4,0	3,0	2,0	18,0	34,0	-3,0	4,0	3,0	18,0	34,6	0,0	1,0	1,0	18,0	34,6	0,0	1,0	0,0
40	28/02/2014 08:30	12,0	34,0	-4,0	3,0	3,0	12,0	34,0	-2,0	5,0	5,0	12,0	34,6	0,0	-1,0	2,0	12,0	34,6	0,0	0,0	2,0
41	06/03/2014 16:30	15,0	34,0	-4,0	3,0	3,0	15,0	34,0	-2,0	5,0	4,0	15,0	34,6	-1,0	0,0	3,0	15,0	34,6	0,0	0,0	2,0
42	10/03/2014 08:30	10,0	34,0	-4,0	3,0	4,0	10,0	34,0	-3,0	5,0	5,0	10,0	34,6	-1,0	1,0	4,0	10,0	34,6	0,0	3,0	3,0
43	17/03/2014 15:30	15,0	34,0	-4,0	4,0	2,0	15,0	34,0	-3,0	5,0	5,0	15,0	34,6	-1,0	1,0	2,0	15,0	34,6	0,0	2,0	1,0
44	24/03/2014 08:30	10,0	34,0	-4,0	3,0	2,0	10,0	34,0	-3,0	4,0	4,0	10,0	34,6	-1,0	0,0	2,0	10,0	34,6	0,0	2,0	2,0
45	01/04/2014 18:30	15,0	34,0	-4,0	2,0	3,0	15,0	34,0	-3,0	3,0	5,0	15,0	34,6	0,0	-1,0	4,0	15,0	34,6	0,0	-1,0	3,0
46	09/04/2014 08:30	15,0	34,0	-4,0	3,0	2,0	15,0	34,0	-3,0	5,0	4,0	15,0	34,6	0,0	1,0	2,0	15,0	34,6	0,0	1,0	2,0
47	16/04/2014 08:30	10,0	34,0	-4,0	0,0	3,0	10,0	34,0	-3,0	2,0	5,0	10,0	34,6	0,0	-1,0	3,0	10,0	34,6	0,0	0,0	3,0
48	24/04/2014 08:30	15,0	34,0	-4,0	0,0	0,0	15,0	34,0	-3,0	4,0	4,0	15,0	34,6	0,0	0,0	4,0	15,0	34,6	0,0	0,0	4,0
49	06/05/2014 08:30	15,0	34,0	-5,0	2,0	1,0	15,0	34,0	-3,0	4,0	3,0	15,0	34,6	-1,0	1,0	0,0	15,0	34,6	0,0	1,0	0,0
50	13/05/2014 08:30	18,0	34,0	-5,0	4,0	4,0	18,0	34,0	-3,0	5,0	5,0	18,0	34,6	-1,0	1,0	2,0	18,0	34,6	0,0	1,0	2,0
51	22/05/2014 08:30	20,0	34,0	-4,0	3,0	3,0	20,0	34,0	-3,0	4,0	3,0	20,0	34,6	0,0	-1,0	1,0	20,0	34,6	0,0	1,0	1,0
52	29/05/2014 08:30	18,0	34,0	-4,0	3,0	3,0	18,0	34,0	-3,0	4,0	4,0	18,0	34,6	0,0	0,0	2,0	18,0	34,6	0,0	0,0	1,0
53	11/06/2014 08:30	22,0	34,0	-4,0	2,0	2,0	22,0	34,0	-3,0	4,0	4,0	22,0	34,6	0,0	-1,0	2,0	22,0	34,6	0,0	1,0	2,0
54	18/06/2014 08:30	18,0	34,0	-4,0	2,0	2,0	18,0	34,0	-3,0	5,0	4,0	18,0	34,6	0,0	1,0	3,0	18,0	34,6	0,0	1,0	3,0
55	26/06/2014 08:30	22,0	34,0	-4,0	2,0	1,0	22,0	34,0	-3,0	4,0	4,0	22,0	34,6	0,0	0,0	1,0	22,0	34,6	0,0	1,0	1,0
56	08/07/2014 08:30	25,0	34,0	-4,0	4,0	1,0	25,0	34,0	-3,0	4,0	4,0	25,0	34,6	0,							



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

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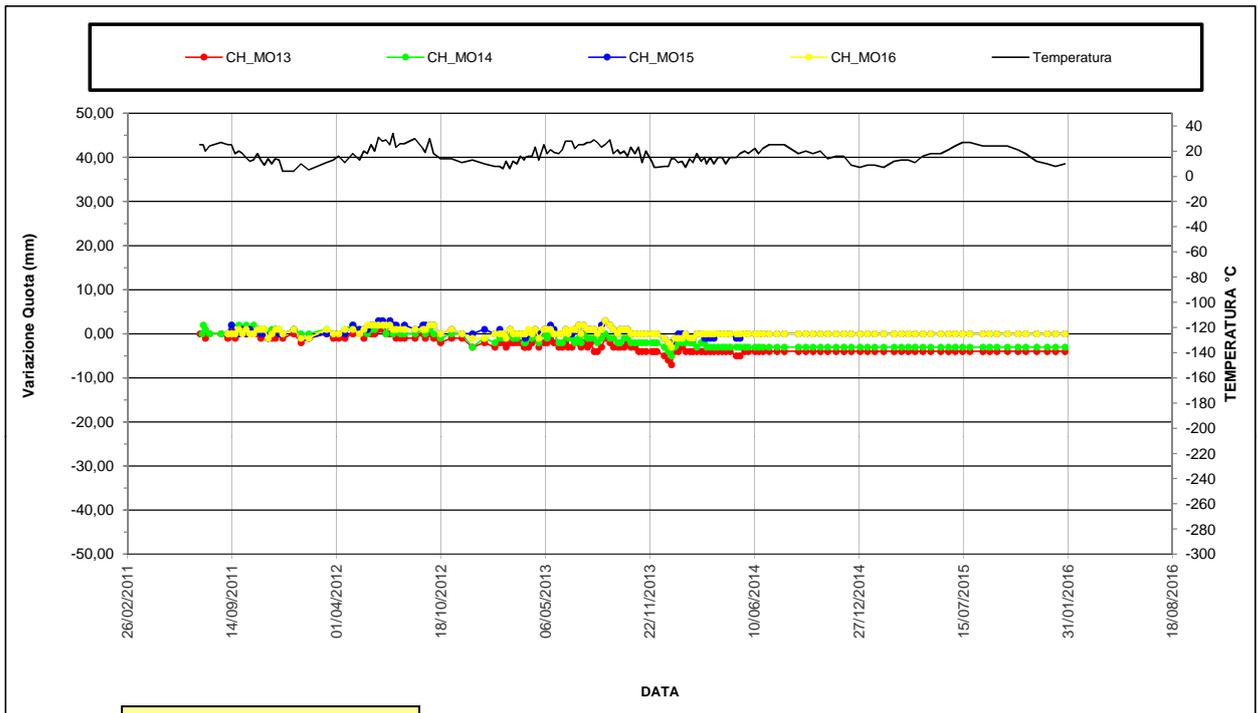
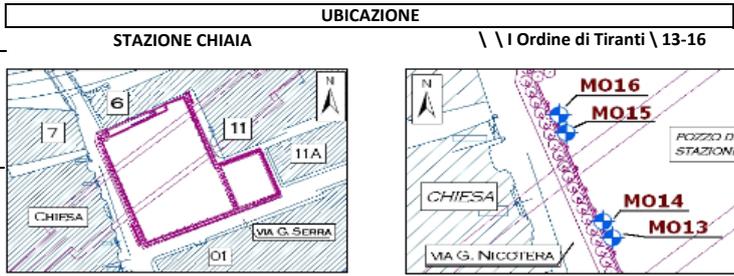
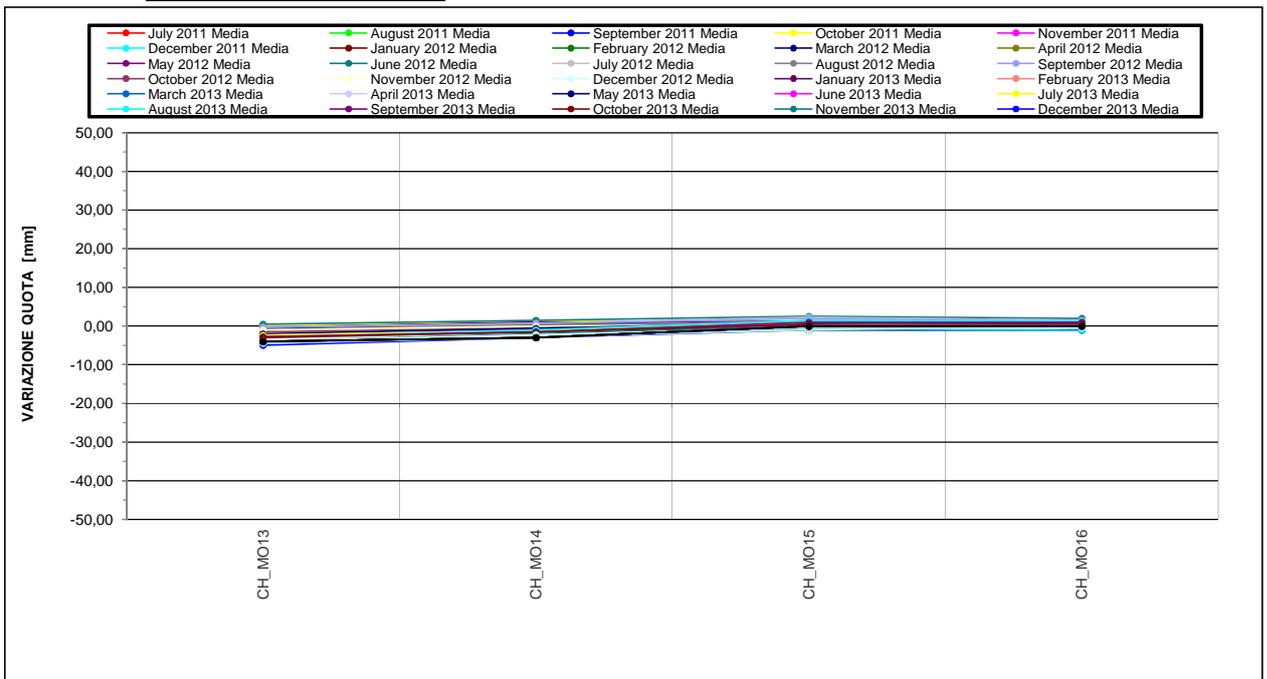


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Ubicazione STAZIONE CHIAIA
Opera \ \ I Ordine di Tiranti \ 13-
Tipo Strumento Mire Ottiche
Data posa in opera 15/07/2011
Data lettura di zero 15/07/2011

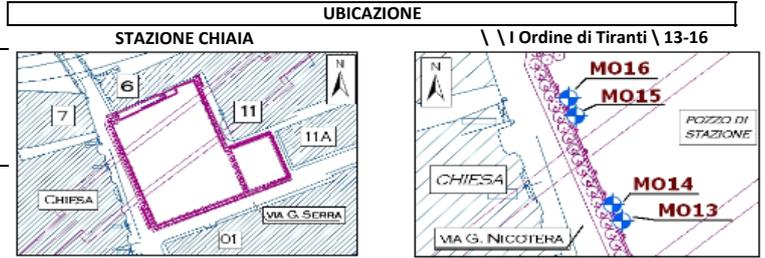


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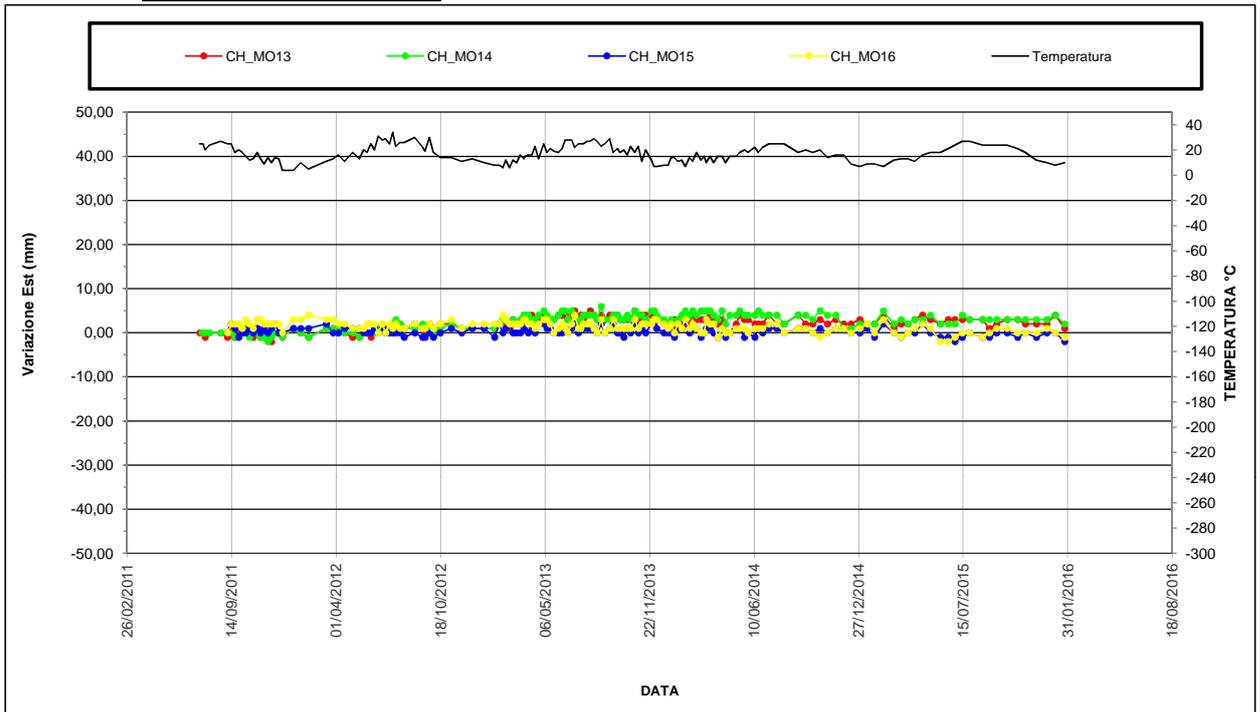
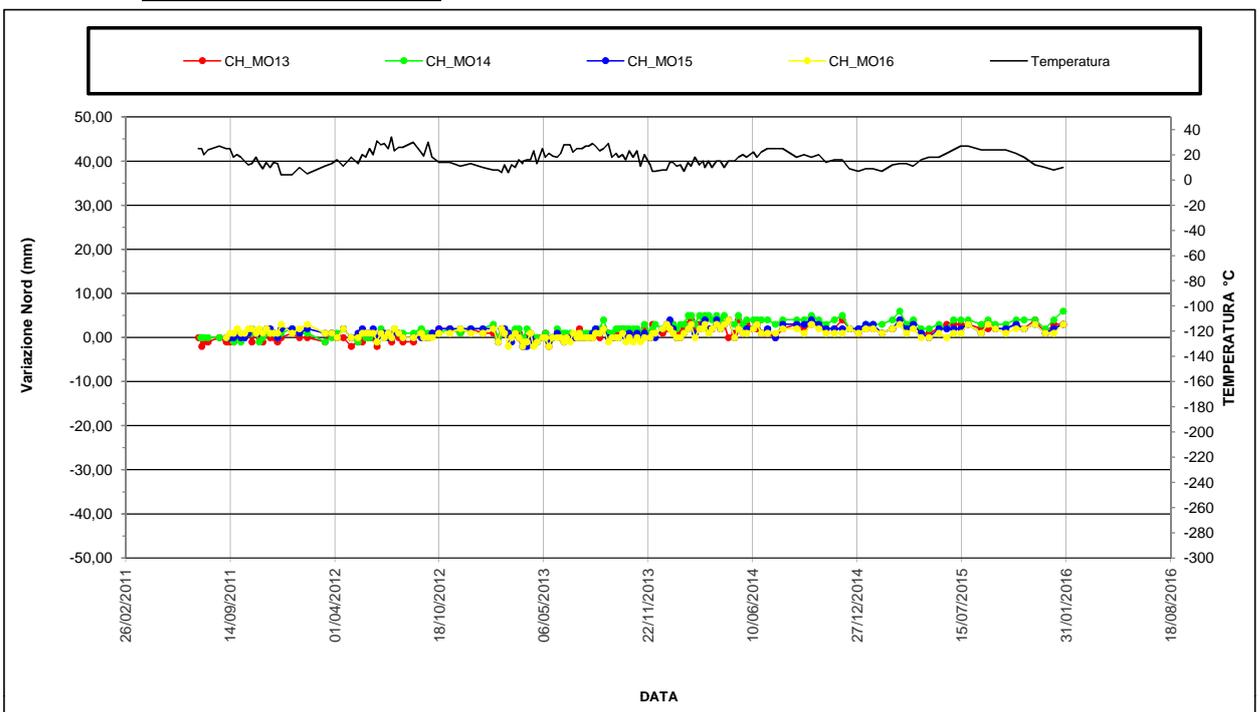


GRAFICO NORD





Ubicazione STAZIONE CHIAIA

Opera \ \ 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 146 in data 07/01/2016

Letto. n°	DATA	CH_M017					CH_M018					CH_M019					CH_M020				
		Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est. Spost. [mm]	Nord Spost. [mm]
56	22/05/2013 08:30	19,0	26,5	0,0	2,0	-1,0	19,0	26,4	1,0	2,0	1,0	19,0	28,7	-1,0	1,0	0,0	19,0	28,7	0,0	-1,0	-2,0
57	31/05/2013 15:30	18,0	26,5	2,0	1,0	-1,0	18,0	26,4	1,0	2,0	-1,0	18,0	28,7	1,0	-1,0	0,0	18,0	28,7	1,0	-1,0	-2,0
58	07/06/2013 08:30	21,0	26,5	1,0	1,0	0,0	21,0	26,4	0,0	2,0	1,0	21,0	28,7	0,0	0,0	1,0	21,0	28,7	0,0	-2,0	-1,0
59	13/06/2013 14:30	28,0	26,5	2,0	2,0	0,0	28,0	26,4	2,0	3,0	0,0	28,0	28,7	0,0	1,0	1,0	28,0	28,7	1,0	1,0	-2,0
60	18/06/2013 09:00	28,0	26,5	1,0	1,0	1,0	28,0	26,4	0,0	2,0	1,0	28,0	28,7	-1,0	0,0	2,0	28,0	28,7	0,0	-1,0	-1,0
61	25/06/2013 18:00	28,0	26,5	1,0	1,0	0,0	28,0	26,4	1,0	3,0	1,0	28,0	28,7	0,0	1,0	1,0	28,0	28,7	0,0	0,0	-2,0
62	01/07/2013 07:30	22,0	26,5	1,0	1,0	0,0	22,0	26,4	1,0	2,0	1,0	22,0	28,7	0,0	1,0	0,0	22,0	28,7	0,0	-1,0	-1,0
63	08/07/2013 17:30	25,0	26,5	2,0	2,0	1,0	25,0	26,4	1,0	2,0	1,0	25,0	28,7	0,0	0,0	1,0	25,0	28,7	0,0	0,0	0,0
64	13/07/2013 07:30	25,0	26,5	1,0	1,0	1,0	25,0	26,4	2,0	2,0	2,0	25,0	28,7	0,0	-1,0	2,0	25,0	28,7	1,0	-2,0	-1,0
65	18/07/2013 07:30	25,0	26,5	1,0	1,0	1,0	25,0	26,4	1,0	2,0	1,0	25,0	28,7	0,0	0,0	1,0	25,0	28,7	1,0	-1,0	0,0
66	25/07/2013 18:00	27,0	26,5	2,0	0,0	0,0	27,0	26,4	1,0	1,0	1,0	27,0	28,7	0,0	0,0	2,0	27,0	28,7	0,0	0,0	0,0
67	31/07/2013 09:00	27,0	26,5	1,0	1,0	1,0	27,0	26,4	1,0	1,0	1,0	27,0	28,7	0,0	-1,0	1,0	27,0	28,7	0,0	-1,0	0,0
68	07/08/2013 09:00	29,0	26,5	1,0	1,0	2,0	29,0	26,4	1,0	1,0	2,0	29,0	28,7	-1,0	0,0	2,0	29,0	28,7	0,0	-1,0	0,0
69	13/08/2013 09:00	27,0	26,5	0,0	2,0	3,0	27,0	26,4	0,0	2,0	3,0	27,0	28,7	-2,0	1,0	2,0	27,0	28,7	-1,0	-1,0	0,0
70	21/08/2013 07:30	23,0	26,5	1,0	2,0	0,0	23,0	26,4	1,0	3,0	1,0	23,0	28,7	-1,0	1,0	1,0	23,0	28,7	0,0	0,0	0,0
71	28/08/2013 10:30	25,0	26,5	2,0	1,0	0,0	25,0	26,4	2,0	1,0	1,0	25,0	28,7	-1,0	1,0	2,0	25,0	28,7	0,0	0,0	0,0
72	06/09/2013 17:30	29,0	26,5	2,0	1,0	1,0	29,0	26,4	2,0	3,0	0,0	29,0	28,7	-1,0	1,0	1,0	29,0	28,7	0,0	-1,0	-1,0
73	13/09/2013 07:30	18,0	26,5	2,0	2,0	1,0	18,0	26,4	2,0	3,0	0,0	18,0	28,7	-1,0	2,0	2,0	18,0	28,7	0,0	0,0	0,0
74	21/09/2013 09:30	21,0	26,5	3,0	1,0	-1,0	21,0	26,4	2,0	3,0	0,0	21,0	28,7	-1,0	1,0	1,0	21,0	28,7	0,0	0,0	-1,0
75	26/09/2013 09:30	18,0	26,5	3,0	1,0	0,0	18,0	26,4	2,0	2,0	1,0	18,0	28,7	-1,0	0,0	1,0	18,0	28,7	-1,0	0,0	-1,0
76	03/10/2013 16:30	20,0	26,5	3,0	3,0	-1,0	20,0	26,4	2,0	3,0	1,0	20,0	28,7	-1,0	1,0	1,0	20,0	28,7	0,0	1,0	-1,0
77	10/10/2013 10:30	16,0	26,5	3,0	3,0	2,0	16,0	26,4	3,0	3,0	1,0	16,0	28,7	0,0	1,0	2,0	16,0	28,7	0,0	0,0	1,0
78	16/10/2013 14:30	23,0	26,5	2,0	1,0	1,0	23,0	26,4	3,0	3,0	1,0	23,0	28,7	-1,0	0,0	2,0	23,0	28,7	0,0	-1,0	0,0
79	24/10/2013 08:30	18,0	26,5	2,0	2,0	2,0	18,0	26,4	2,0	3,0	2,0	18,0	28,7	-2,0	1,0	3,0	18,0	28,7	-1,0	0,0	0,0
80	31/10/2013 14:30	23,0	26,5	2,0	3,0	1,0	23,0	26,4	2,0	4,0	1,0	23,0	28,7	-1,0	1,0	2,0	23,0	28,7	0,0	0,0	0,0
81	07/11/2013 08:30	11,0	26,5	2,0	3,0	2,0	11,0	26,4	2,0	4,0	2,0	11,0	28,7	-1,0	2,0	2,0	11,0	28,7	-1,0	1,0	0,0
82	14/11/2013 14:30	20,0	26,5	2,0	3,0	1,0	20,0	26,4	2,0	3,0	1,0	20,0	28,7	-1,0	2,0	2,0	20,0	28,7	-1,0	0,0	0,0
83	25/11/2013 15:30	12,0	26,5	2,0	3,0	2,0	12,0	26,4	2,0	4,0	2,0	12,0	28,7	-1,0	0,0	2,0	12,0	28,7	-1,0	0,0	1,0
84	30/11/2013 08:30	7,0	26,5	2,0	2,0	1,0	7,0	26,4	2,0	3,0	2,0	7,0	28,7	-1,0	2,0	2,0	7,0	28,7	-1,0	0,0	0,0
85	05/12/2013 08:30	7,0	26,5	3,0	3,0	1,0	7,0	26,4	2,0	4,0	2,0	7,0	28,7	-1,0	1,0	1,0	7,0	28,7	-1,0	0,0	0,0
86	19/12/2013 13:00	8,0	26,5	2,0	2,0	2,0	8,0	26,4	1,0	2,0	2,0	8,0	28,7	-3,0	1,0	2,0	8,0	28,7	-2,0	-1,0	0,0
87	27/12/2013 09:00	8,0	26,5	1,0	2,0	3,0	8,0	26,4	1,0	1,0	2,0	8,0	28,7	-3,0	0,0	1,0	8,0	28,7	-2,0	-2,0	0,0
88	02/01/2014 07:30	14,0	26,5	1,0	1,0	4,0	14,0	26,4	1,0	1,0	3,0	14,0	28,7	-2,0	0,0	2,0	14,0	28,7	-2,0	-1,0	-1,0
89	08/01/2014 14:30	14,0	26,5	3,0	3,0	1,0	14,0	26,4	3,0	4,0	1,0	14,0	28,7	-1,0	2,0	2,0	14,0	28,7	-1,0	1,0	0,0
90	15/01/2014 08:30	11,0	26,5	3,0	4,0	1,0	11,0	26,4	3,0	4,0	1,0	11,0	28,7	-1,0	2,0	2,0	11,0	28,7	-1,0	1,0	0,0
91	22/01/2014 14:30	12,0	26,5	3,0	4,0	2,0	12,0	26,4	2,0	5,0	2,0	12,0	28,7	-1,0	3,0	2,0	12,0	28,7	0,0	0,0	-1,0
92	29/01/2014 08:30	7,0	26,5	3,0	1,0	1,0	7,0	26,4	2,0	3,0	2,0	7,0	28,7	-1,0	0,0	2,0	7,0	28,7	-1,0	-2,0	-1,0
93	06/02/2014 14:30	14,0	26,5	3,0	2,0	1,0	14,0	26,4	2,0	3,0	1,0	14,0	28,7	-1,0	1,0	1,0	14,0	28,7	0,0	-1,0	0,0
94	12/02/2014 08:30	11,0	26,5	3,0	5,0	1,0	11,0	26,4	2,0	4,0	1,0	11,0	28,7	0,0	2,0	2,0	11,0	28,7	0,0	0,0	-1,0
95	19/02/2014 14:30	18,0	26,5	3,0	3,0	1,0	18,0	26,4	2,0	3,0	0,0	18,0	28,7	0,0	0,0	2,0	18,0	28,7	0,0	0,0	0,0
96	28/02/2014 08:30	12,0	26,5	3,0	4,0	0,0						12,0	28,7	-1,0	0,0	0,0	12,0	28,7	-1,0	-1,0	-2,0
97	06/03/2014 16:30	15,0	26,5	3,0	2,0	0,0						15,0	28,7	-1,0	2,0	1,0	15,0	28,7	0,0	1,0	-2,0
98	10/03/2014 08:30	10,0	26,5	3,0	2,0	0,0						10,0	28,7	-1,0	1,0	1,0	10,0	28,7	0,0	1,0	-1,0
99	17/03/2014 15:30	15,0	26,5	2,0	2,0	0,0						15,0	28,7	-1,0	1,0	1,0	15,0	28,7	0,0	0,0	-2,0
100	24/03/2014 08:30	10,0	26,5	2,0	3,0	1,0						10,0	28,7	-1,0	1,0	1,0	10,0	28,7	0,0	0,0	0,0
101	01/04/2014 18:30	15,0	26,5	3,0	2,0	0,0						15,0	28,7	-1,0	0,0	0,0	15,0	28,7	0,0	0,0	-2,0
102	09/04/2014 08:30	15,0	26,5	2,0	4,0	1,0						15,0	28,7	-1,0	1,0	1,0	15,0	28,7	-1,0	1,0	-2,0
103	16/04/2014 08:30	10,0	26,5	2,0	2,0	-1,0						10,0	28,7	-1,0	2,0	1,0	10,0	28,7	-1,0	1,0	0,0
104	24/04/2014 08:30	15,0	26,5	3,0	3,0	-1,0						15,0	28,7	-1,0	1,0	0,0	15,0	28,7	-1,0	0,0	-2,0
105	06/05/2014 08:30	15,0	26,5	3,0	1,0	0,0						15,0	28,7	-1,0	1,0	1,0	15,0	28,7	-1,0	-1,0	-1,0
106	13/05/2014 08:30	18,0	26,5	3,0	2,0	-1,0						18,0	28,7	-1,0	1,0	0,0	18,0	28,7	-1,0	1,0	-1,0
107	22/05/2014 08:30	20,0	26,5	3,0	3,0	0,0						20,0	28,7	-1,0	1,0	0,0	20,0	28,7	-1,0	1,0	0,0
108	29/05/2014 08:30	18,0	26,5	3,0	0,0	0,0						18,0	28,7	-1,0	1,0	2,0	18,0	28,7	-1,0	0,0	0,0
109	11/06/2014 08:30	22,0	26,5	3,0	1,0	0,0						22,0	28,7	-1,0	1,0	1,0	22,0	28,7	-1,0	0,0	-1,0
110	18/06/2014 08:30	18,0	26,5	3,0	1,0	-1,0						18,0	28,7	-1,0	2,0	1,0	18,0	28,7	-1,0	-1,0	-1,0
111	26/06/2014 08:30	22,0	26,5	3,0	3,0	-1,0						22,0	28,7	-1,0	1,0	0,0	22,0	28,7	-1,0	1,0	-1,0
112	08/07/2014 08:30	25,0	26,5	3,0	3,0	0,0						25,0	28,7	-1,0	1,0	0,0	25,0	28,7	0,0	0,0	1,0
113	23/07/2014 08:30	25,0	26,5	3,0	2,0	0,0						25,0	28,7	-1,0	1,0	0,0	25,0	28,7	0,0	1,0	-2,0
114	06/08/2014 08:30	25,0	26,5	3,0	2,0	-1,0	25,0	26,4													



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

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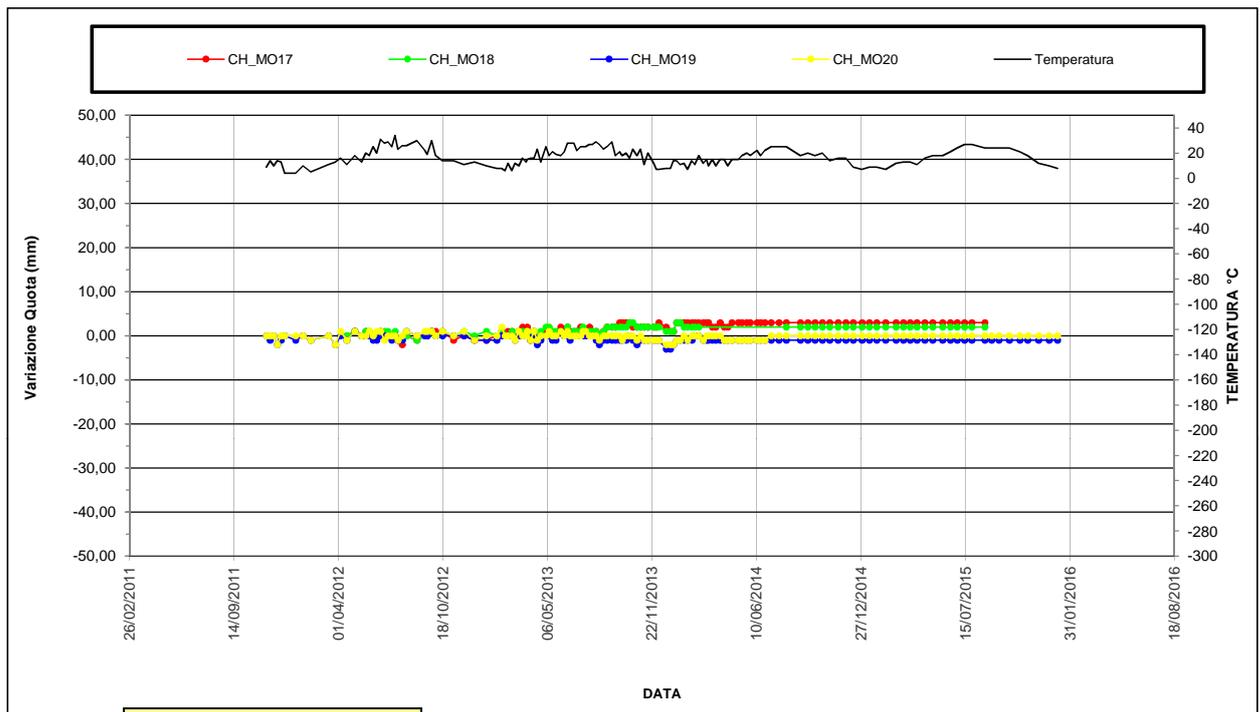
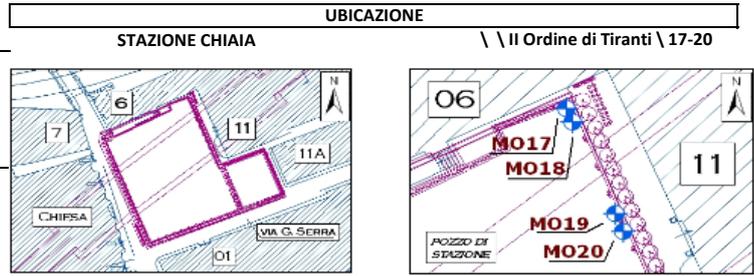
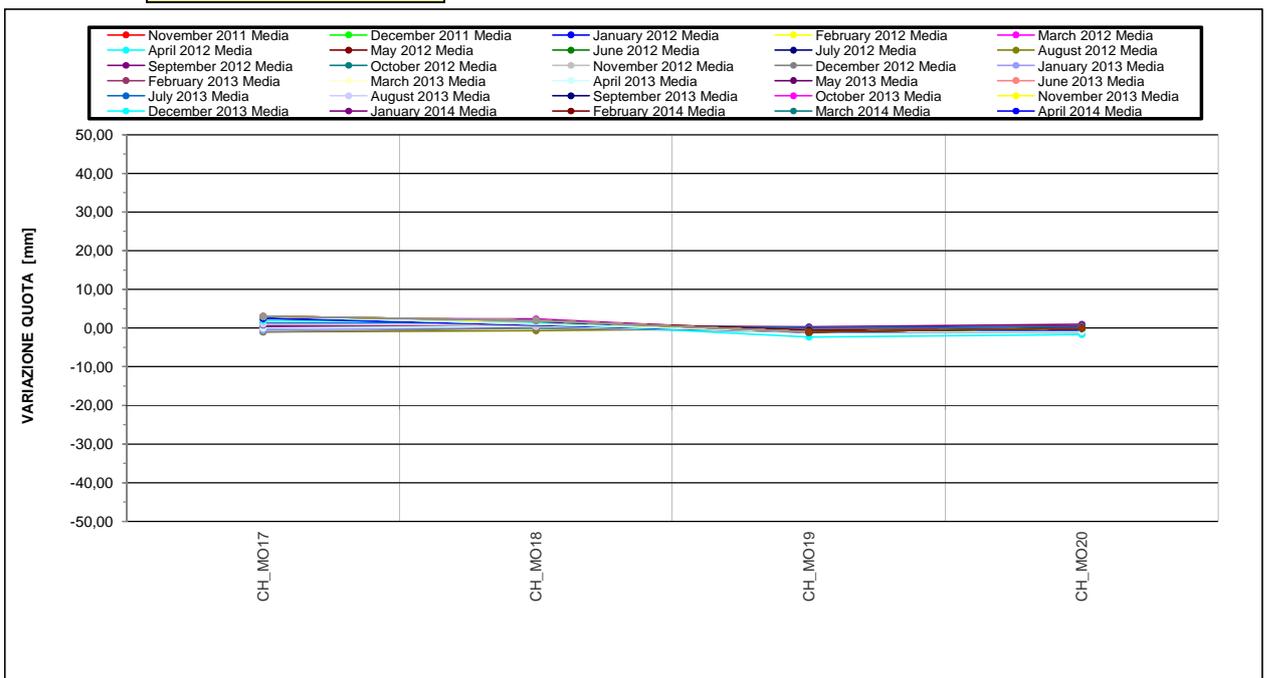


GRAFICO ISOCRONE





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

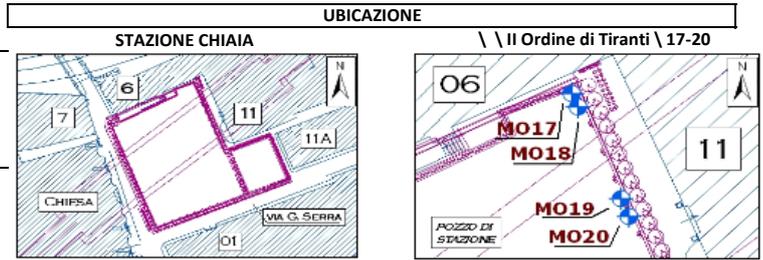


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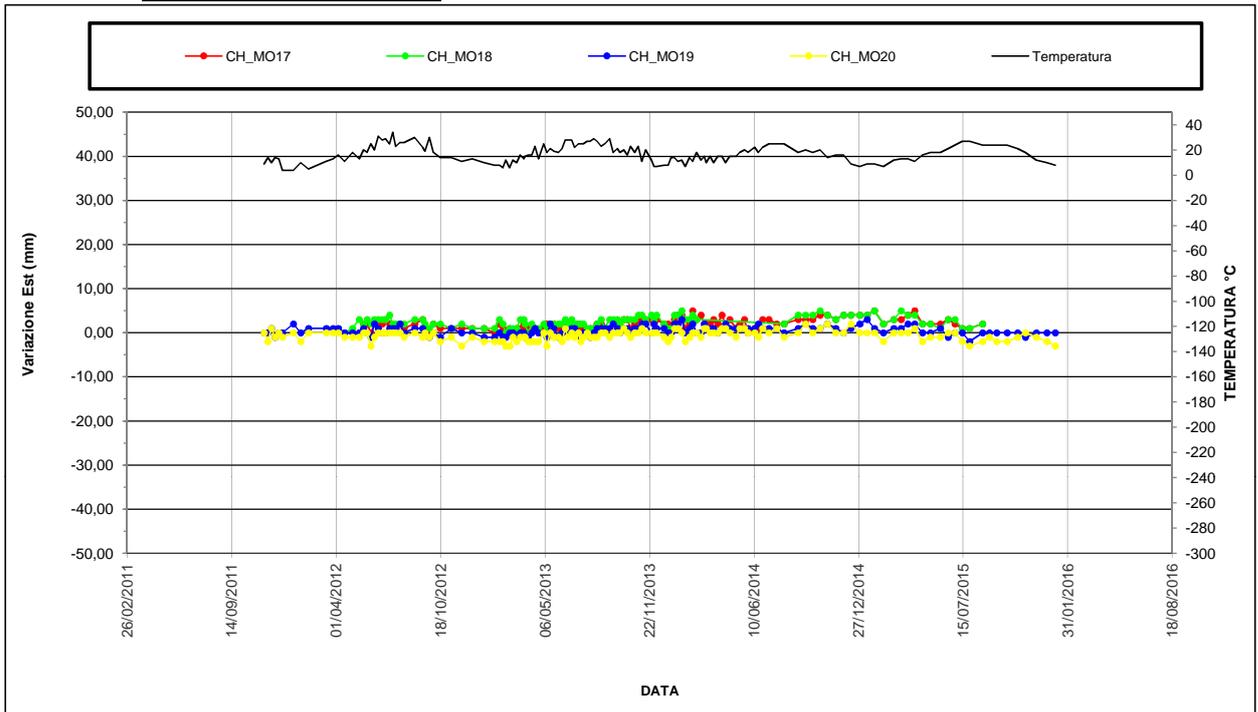
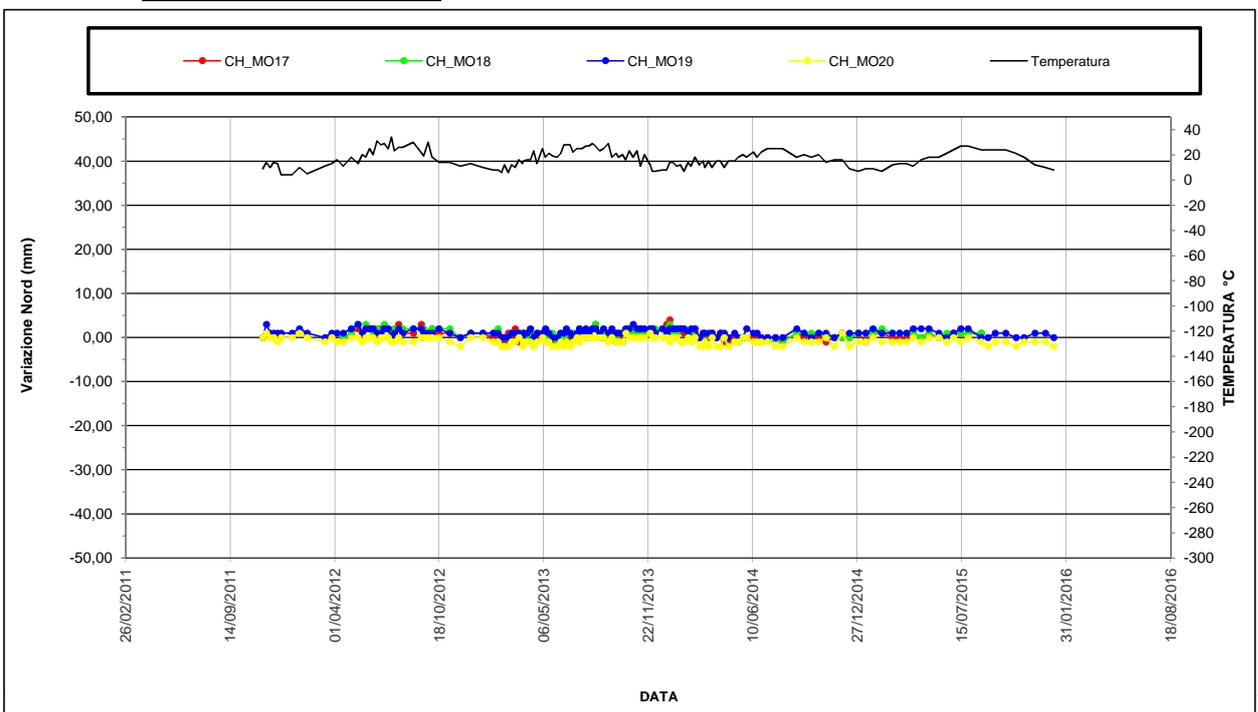


GRAFICO NORD





Ubicazione STAZIONE CHIAIA

Opera \ \ 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 157 in data 07/01/2016

Letto. n°	DATA	CH_M021					CH_M022					CH_M023					CH_M024							
		Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]			
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	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	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	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	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	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	-6,0	28,8	-2,0	-6,0	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	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	-1,0	5,0	8,0	25,0	28,8	1,0	-9,0	5,0	25,0	28,8	0,0	-9,0	28,8	0,0	-9,0	4,0
75	13/07/2013 07:30	25,0	28,9	0,0	6,0	8,0	25,0	28,9	-1,0	5,0	9,0	25,0	28,8	0,0	-8,0	7,0	25,0	28,8	-2,0	-8,0	28,8	-2,0	-8,0	5,0
76	18/07/2013 07:30	25,0	28,9	-1,0	7,0	8,0	25,0	28,9	-1,0	5,0	8,0	25,0	28,8	1,0	-7,0	6,0	25,0	28,8	-1,0	-8,0	28,8	-1,0	-8,0	5,0
77	25/07/2013 18:00	27,0	28,9	0,0	8,0	9,0	27,0	28,9	-1,0	6,0	9,0	27,0	28,8	0,0	-7,0	6,0	27,0	28,8	-1,0	-7,0	28,8	-1,0	-7,0	5,0
78	31/07/2013 09:00	27,0	28,9	0,0	6,0	9,0	27,0	28,9	-2,0	6,0	9,0	27,0	28,8	1,0	-6,0	8,0	27,0	28,8	-1,0	-6,0	28,8	-1,0	-6,0	7,0
79	07/08/2013 09:00	29,0	28,9	0,0	7,0	7,0	29,0	28,9	-2,0	6,0	7,0	29,0	28,8	-1,0	-6,0	7,0	29,0	28,8	-2,0	-6,0	28,8	-2,0	-6,0	5,0
80	13/08/2013 09:00	27,0	28,9	0,0	8,0	6,0	27,0	28,9	-1,0	7,0	6,0	27,0	28,8	-2,0	-6,0	6,0	27,0	28,8	-3,0	-6,0	28,8	-3,0	-6,0	4,0
81	21/08/2013 07:30	23,0	28,9	0,0	10,0	8,0	23,0	28,9	0,0	8,0	9,0	23,0	28,8	1,0	-7,0	7,0	23,0	28,8	0,0	-7,0	28,8	0,0	-7,0	6,0
82	28/08/2013 10:30	25,0	28,9	0,0	10,0	8,0	25,0	28,9	-1,0	7,0	9,0	25,0	28,8	1,0	-8,0	10,0	25,0	28,8	0,0	-9,0	28,8	0,0	-9,0	8,0
83	06/09/2013 17:30						29,0	28,9	-1,0	5,0	10,0	29,0	28,8	0,0	-8,0	8,0	29,0	28,8	-1,0	-8,0	28,8	-1,0	-8,0	5,0
84	13/09/2013 07:30	18,0	28,9	2,0	8,0	8,0	18,0	28,9	0,0	6,0	9,0	18,0	28,8	0,0	-8,0	7,0	18,0	28,8	-1,0	-7,0	28,8	-1,0	-7,0	5,0
85	21/09/2013 09:30	21,0	28,9	1,0	7,0	7,0	21,0	28,9	-1,0	6,0	8,0	21,0	28,8	0,0	-8,0	8,0	21,0	28,8	-1,0	-7,0	28,8	-1,0	-7,0	7,0
86	26/09/2013 09:30	18,0	28,9	1,0	9,0	8,0	18,0	28,9	0,0	6,0	9,0	18,0	28,8	0,0	-9,0	8,0	18,0	28,8	-1,0	-8,0	28,8	-1,0	-8,0	6,0
87	03/10/2013 16:30	20,0	28,9	2,0	8,0	8,0	20,0	28,9	1,0	5,0	8,0	20,0	28,8	0,0	-8,0	7,0	20,0	28,8	-1,0	-8,0	28,8	-1,0	-8,0	6,0
88	10/10/2013 08:30	16,0	28,9	2,0	10,0	10,0	16,0	28,9	2,0	8,0	10,0	16,0	28,8	0,0	-8,0	7,0	16,0	28,8	-1,0	-8,0	28,8	-1,0	-8,0	5,0
89	16/10/2013 14:30	23,0	28,9	1,0	9,0	10,0	23,0	28,9	0,0	6,0	10,0	23,0	28,8	-1,0	-8,0	8,0	23,0	28,8	-2,0	-8,0	28,8	-2,0	-8,0	7,0
90	24/10/2013 08:30	18,0	28,9	1,0	9,0	10,0	18,0	28,9	0,0	6,0	11,0	18,0	28,8	-1,0	-7,0	7,0	18,0	28,8	-2,0	-6,0	28,8	-2,0	-6,0	6,0
91	31/10/2013 14:30	23,0	28,9	1,0	9,0	11,0	23,0	28,9	0,0	6,0	10,0	23,0	28,8	-1,0	-8,0	8,0	23,0	28,8	-2,0	-8,0	28,8	-2,0	-8,0	7,0
92	07/11/2013 08:30	11,0	28,9	0,0	9,0	11,0	11,0	28,9	0,0	6,0	10,0	11,0	28,8	-1,0	-8,0	6,0	11,0	28,8	-2,0	-8,0	28,8	-2,0	-8,0	6,0
93	14/11/2013 14:30	20,0	28,9	0,0	7,0	11,0	20,0	28,9	0,0	8,0	11,0	20,0	28,8	-1,0	-9,0	7,0	20,0	28,8	-2,0	-8,0	28,8	-2,0	-8,0	6,0
94	25/11/2013 15:30	12,0	28,9	0,0	7,0	10,0	12,0	28,9	1,0	7,0	11,0	12,0	28,8	-1,0	-7,0	7,0	12,0	28,8	-2,0	-7,0	28,8	-2,0	-7,0	6,0
95	30/11/2013 08:30	7,0	28,9	1,0	8,0	11,0	7,0	28,9	1,0	7,0	10,0	7,0	28,8	-1,0	-7,0	9,0	7,0	28,8	-2,0	-7,0	28,8	-2,0	-7,0	7,0
96	05/12/2013 08:30	7,0	28,9	2,0	7,0	9,0	7,0	28,9	1,0	6,0	9,0	7,0	28,8	0,0	-8,0	6,0	7,0	28,8	-2,0	-8,0	28,8	-2,0	-8,0	6,0
97	19/12/2013 13:00	8,0	28,9	2,0	5,0	7,0	8,0	28,9	0,0	5,0	7,0	8,0	28,8	-2,0	-7,0	5,0	8,0	28,8	-4,0	-7,0	28,8	-4,0	-7,0	4,0
98	27/12/2013 09:00	8,0	28,9	1,0	4,0	5,0	8,0	28,9	-1,0	6,0	8,0	8,0	28,8	-3,0	-7,0	6,0	8,0	28,8	-4,0	-7,0	28,8	-4,0	-7,0	5,0
99	02/01/2014 07:30	14,0	28,9	0,0	3,0	4,0	14,0	28,9	0,0	6,0	9,0	14,0	28,8	-4,0	-7,0	6,0	14,0	28,8	-5,0	-7,0	28,8	-5,0	-7,0	4,0
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101	15/01/2014 08:30	11,0	28,9	2,0	8,0	11,0	11,0	28,9	1,0	9,0	11,0	11,0	28,8	-1,0	-9,0	7,0	11,0	28,8	-2,0	-9,0	28,8	-2,0	-9,0	5,0
102	22/01/2014 14:30	12,0	28,9	2,0	7,0	10,0	12,0	28,9	1,0	8,0	10,0	12,0	28,8	0,0	-10,0	8,0	12,0	28,8	-1,0	-9,0	28,8	-1,0	-9,0	6,0
103	29/01/2014 08:30	7,0	28,9	2,0	6,0	11,0	7,0	28,9	1,0	6,0	11,0	7,0	28,8	0,0	-9,0	8,0	7,0	28,8	-1,0	-8,0	28,8	-1,0	-8,0	6,0
104	06/02/2014 14:30	14,0	28,9	2,0	8,0	10,0	14,0	28,9	1,0	8,0	9,0	14,0	28,8	-1,0	-10,0	9,0	14,0	28,8	-2,0	-10,0	28,8	-2,0	-10,0	7,0
105	12/02/2014 08:30	11,0	28,9	2,0	6,0	9,0	11,0	28,9	2,0	6,0	10,0	11,0	28,8	-1,0	-7,0	11,0	11,0	28,8	-2,0	-7,0	28,8	-2,0	-7,0	10,0
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108	06/03/2014 16:30	15,0	28,9	2,0	9,0	9,0	15,0	28,9	1,0	8,0	9,0	15,0	28,8	-1,0	-8,0	11,0	15,0	28,8	-3,0	-8,0	28,8	-3,0	-8,0	8,0
109	10/03/2014 08:30	10,0	28,9	2,0	10,0	9,0	10,0	28,9	1,0	8,0	11,0	10,0	28,8	-1,0	-9,0	10,0	10,0	28,8	-3,0	-9,0	28,8	-3,0	-9,0	7,0
110	17/03/2014 15:30	15,0	28,9	2,0	5,0	8,0	15,0	28,9	1,0	5,0	8,0	15,0	28,8	-1,0	-8,0	10,0	15,0	28,8	-2,0	-7,0	28,8	-2,0	-7,0	8,0
111	24/03/2014 08:30	10,0	28,9	2,0	8,0	8,0	10,0	28,9	1,0	6,0	9,0	10,0	28,8	-1,0	-9,0	8,0	10,0	28,8	-2,0	-9,0	28,8	-2,0	-9,0	6,0
112	01/04/2014 18:30	15,0	28,9	2,0	7,0	8,0	15,0	28,9	1,0	4,0	9,0	15,0	28,8	-1,0	-10,0	13,0	15,0	28,8	-2,0	-10,0	28,8	-2,0	-10,0	10,0
113	09/04/2014 08:30	15,0	28,9	1,0	9,0	9,0	15,0	28,9	1,0	5,0	10,0	15,0	28,8	-1,0	-9,0	10,0	15,0	28,8	-2,0	-8,0	28,8	-2,0	-8,0	9,0
114	16/04/2014 08:30	10,0	28,9	1,0	12,0	10,0	10,0	28,9	0,0	8,0	11,0	10,0	28,8	-1,0	-11,0	10,0	10,0	28,8	-2,0	-10,0	28,8	-2,0	-10,0	8,0
115	24/04/2014 08:30	15,0	28,9	1,0	7,0	9,0	15,0	28,9	0,0	6,0	9,0	15,0	28,8	-1,0	-9,0	11,0	15,0	28,8	-3,0	-10,0	28,8	-3,0	-10,0	8,0
116	06/05/2014 08:30	15,0	28,9	1,0	8,0	10,0	15,0	28,9	0,0	8,0	12,0	15,0	28,8	-1,0	-10,0	10,0	15,0	28,8	-3,0	-9,0	28,8	-3,0	-9,0	8,0
117																								



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

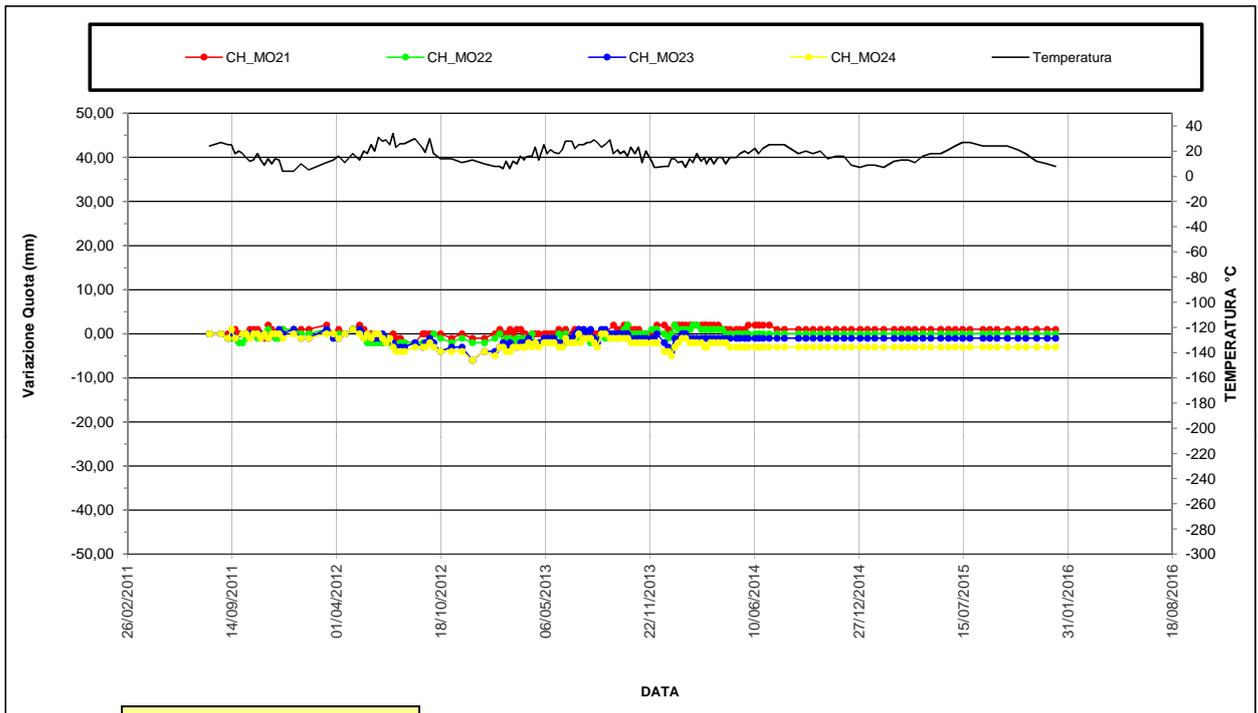
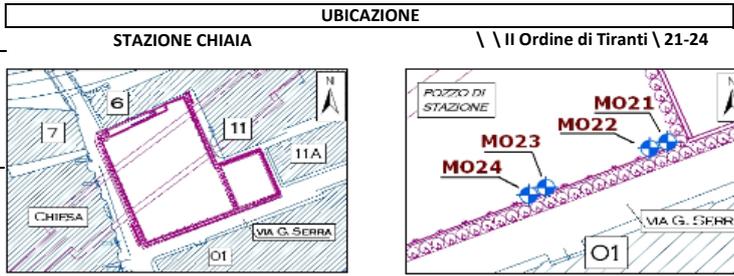
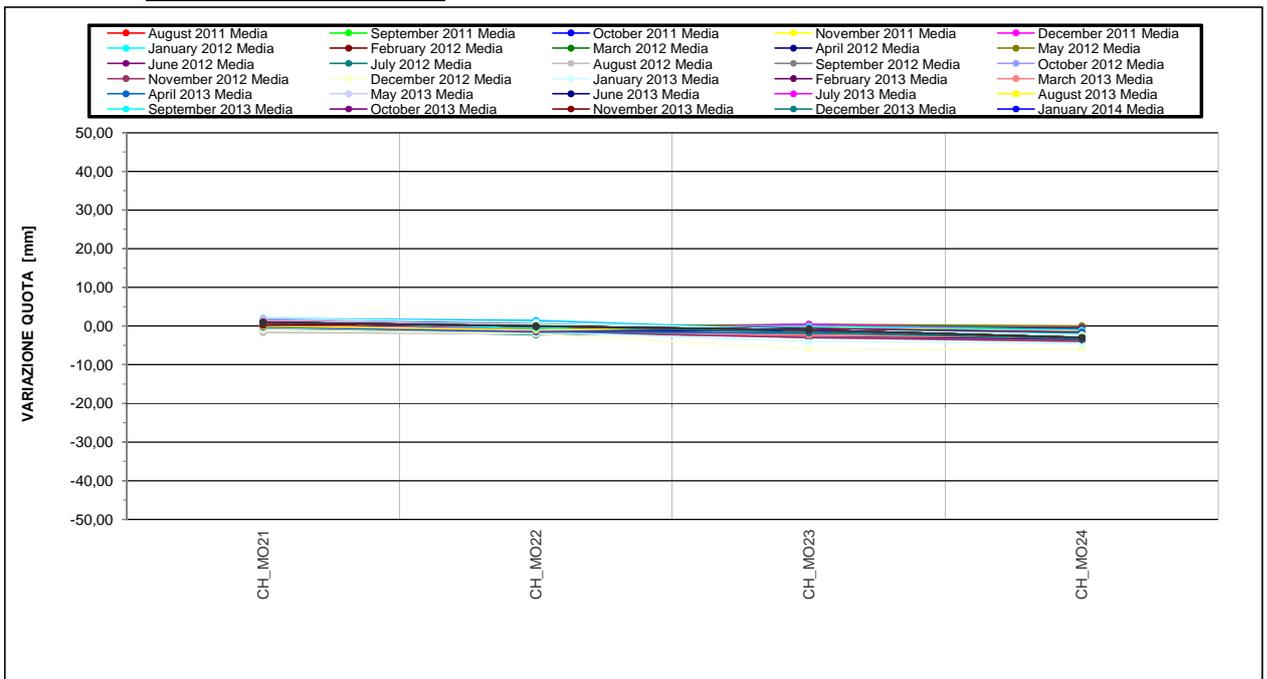


GRAFICO ISOCRONE





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

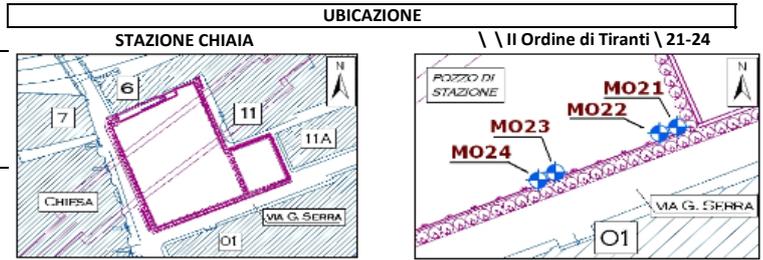


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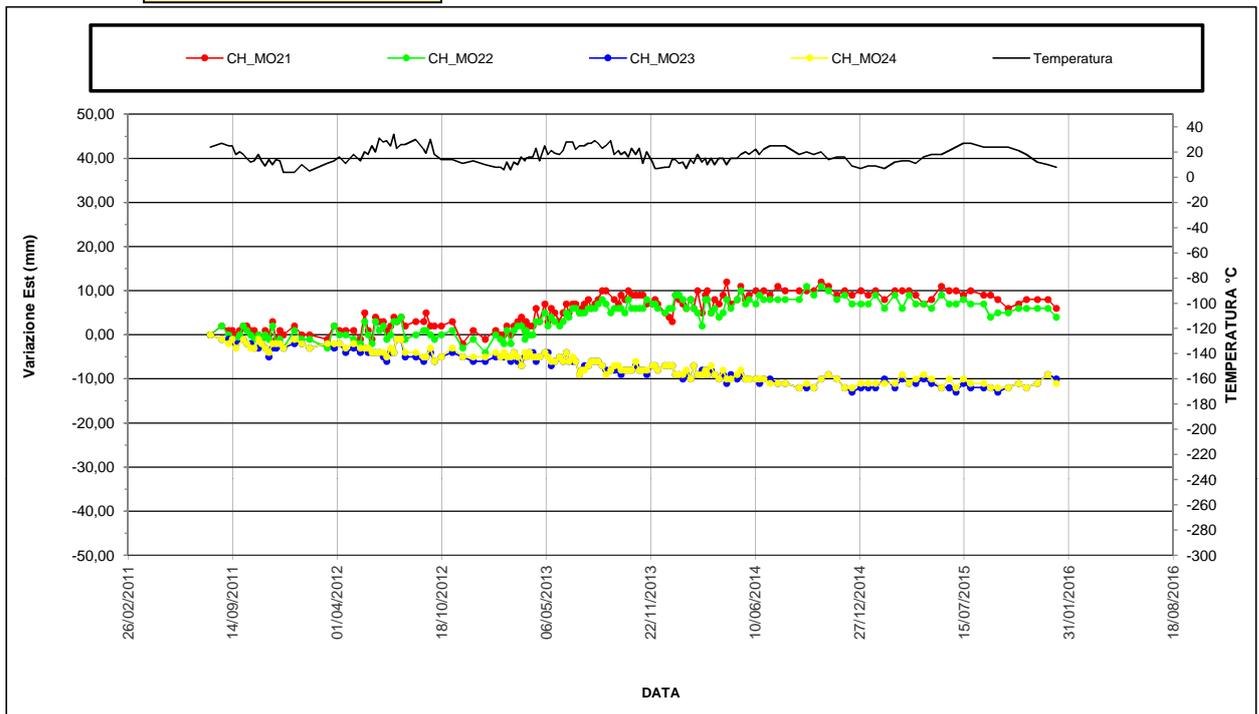
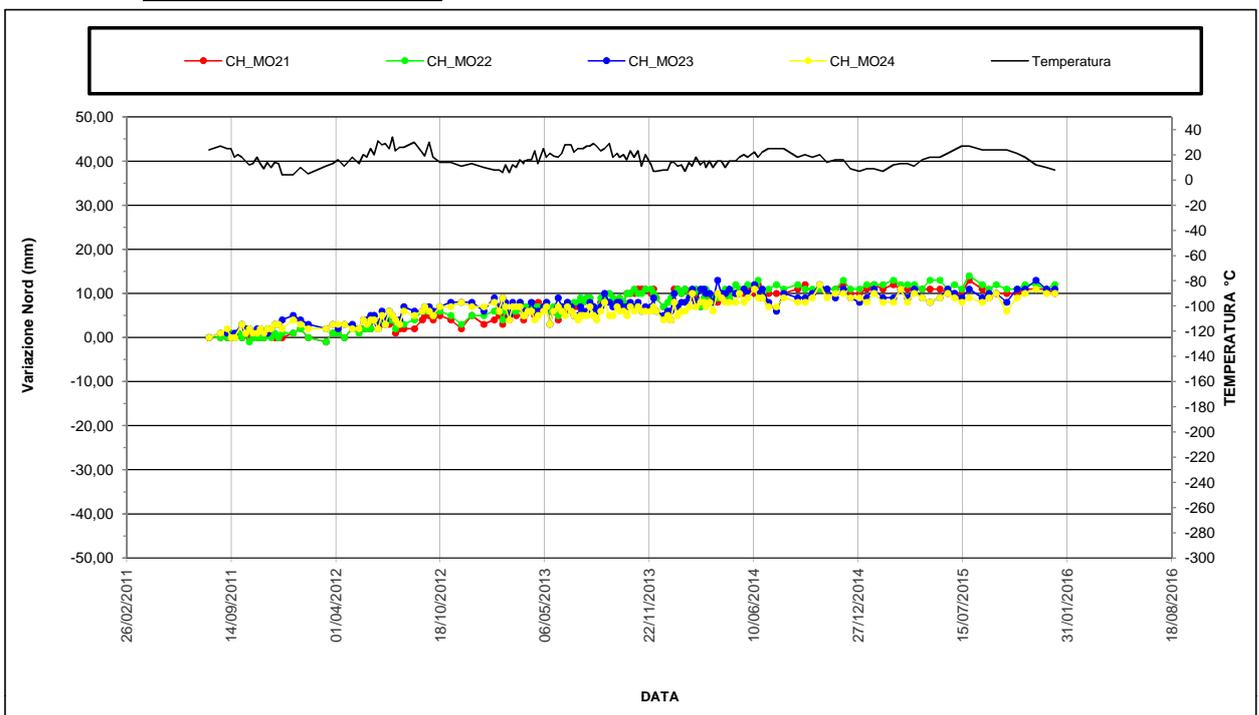


GRAFICO NORD





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 159 in data 07/01/2016

Letto. n°	DATA	CH_M025					CH_M026					CH_M027					CH_M028									
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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	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	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	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	-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	-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	2,0	0,0	22,0	29,8	-3,0	3,0	0,0
76	08/07/2013 17:30	25,0	29,9	1,0	-5,0	5,0	25,0	30,0	1,0	-6,0	4,0	25,0	29,8	-1,0	0,0	0,0	25,0	29,8	-1,0	1,0	1,0	25,0	29,8	-1,0	1,0	1,0
77	13/07/2013 07:30	25,0	29,9	-1,0	-3,0	6,0	25,0	30,0	-1,0	-5,0	5,0	25,0	29,8	-4,0	1,0	1,0	25,0	29,8	-4,0	2,0	2,0	25,0	29,8	-3,0	2,0	2,0
78	18/07/2013 07:30	25,0	29,9	1,0	-3,0	6,0	25,0	30,0	0,0	-5,0	3,0	25,0	29,8	-2,0	3,0	0,0	25,0	29,8	-2,0	3,0	0,0	25,0	29,8	-2,0	3,0	1,0
79	25/07/2013 18:00	27,0	29,9	0,0	-3,0	7,0	27,0	30,0	-1,0	-4,0	4,0	27,0	29,8	-3,0	2,0	0,0	27,0	29,8	-3,0	2,0	0,0	27,0	29,8	-2,0	2,0	1,0
80	31/07/2013 09:00	27,0	29,9	0,0	-2,0	6,0	27,0	30,0	1,0	-3,0	5,0	27,0	29,8	-3,0	3,0	1,0	27,0	29,8	-3,0	3,0	1,0	27,0	29,8	-3,0	4,0	0,0
81	07/08/2013 09:00	29,0	29,9	-1,0	-2,0	5,0	29,0	30,0	0,0	-3,0	4,0	29,0	29,8	-4,0	3,0	1,0	29,0	29,8	-4,0	3,0	1,0	29,0	29,8	-4,0	4,0	0,0
82	13/08/2013 09:00	27,0	29,9	-2,0	-3,0	4,0	27,0	30,0	-1,0	-4,0	3,0	27,0	29,8	-5,0	2,0	1,0	27,0	29,8	-5,0	2,0	1,0	27,0	29,8	-5,0	3,0	1,0
83	21/08/2013 07:30	23,0	29,9	-1,0	-4,0	6,0	23,0	30,0	0,0	-3,0	5,0	23,0	29,8	-2,0	3,0	1,0	23,0	29,8	-3,0	2,0	1,0	23,0	29,8	-3,0	2,0	1,0
84	28/08/2013 10:30	25,0	29,9	1,0	-5,0	9,0	25,0	30,0	1,0	-5,0	7,0	25,0	29,8	-2,0	0,0	3,0	25,0	29,8	-2,0	0,0	3,0	25,0	29,8	-2,0	2,0	3,0
85	06/09/2013 17:30	29,0	29,9	0,0	-5,0	6,0	29,0	30,0	1,0	-4,0	5,0	29,0	29,8	-3,0	2,0	0,0	29,0	29,8	-3,0	2,0	0,0	29,0	29,8	-3,0	2,0	1,0
86	13/09/2013 07:30	18,0	29,9	0,0	-3,0	6,0	18,0	30,0	1,0	-4,0	5,0	18,0	29,8	-2,0	3,0	1,0	18,0	29,8	-2,0	3,0	1,0	18,0	29,8	-3,0	3,0	1,0
87	21/09/2013 09:30	21,0	29,9	-1,0	-4,0	7,0	21,0	30,0	-1,0	-4,0	6,0	21,0	29,8	-3,0	2,0	2,0	21,0	29,8	-3,0	2,0	2,0	21,0	29,8	-3,0	3,0	2,0
88	26/09/2013 09:30	18,0	29,9	0,0	-4,0	7,0	18,0	30,0	0,0	-5,0	5,0	18,0	29,8	-3,0	1,0	2,0	18,0	29,8	-3,0	1,0	2,0	18,0	29,8	-3,0	1,0	1,0
89	03/10/2013 16:30	20,0	29,9	-1,0	-4,0	6,0	20,0	30,0	-1,0	-4,0	5,0	20,0	29,8	-3,0	1,0	2,0	20,0	29,8	-3,0	1,0	2,0	20,0	29,8	-3,0	1,0	1,0
90	10/10/2013 08:30	16,0	29,9	-1,0	-4,0	6,0	16,0	30,0	0,0	-4,0	6,0	16,0	29,8	-3,0	2,0	2,0	16,0	29,8	-3,0	2,0	2,0	16,0	29,8	-3,0	1,0	0,0
91	16/10/2013 14:30	23,0	29,9	-1,0	-4,0	8,0	23,0	30,0	0,0	-5,0	6,0	23,0	29,8	-3,0	2,0	2,0	23,0	29,8	-4,0	1,0	2,0	23,0	29,8	-4,0	1,0	2,0
92	24/10/2013 08:30	18,0	29,9	-1,0	-2,0	6,0	18,0	30,0	-1,0	-3,0	6,0	18,0	29,8	-3,0	4,0	2,0	18,0	29,8	-4,0	3,0	1,0	18,0	29,8	-4,0	3,0	1,0
93	31/10/2013 14:30	23,0	29,9	-1,0	-4,0	7,0	23,0	30,0	-1,0	-4,0	5,0	23,0	29,8	-3,0	1,0	2,0	23,0	29,8	-4,0	1,0	2,0	23,0	29,8	-4,0	1,0	2,0
94	07/11/2013 08:30	11,0	29,9	-1,0	-3,0	6,0	11,0	30,0	-1,0	-5,0	5,0	11,0	29,8	-4,0	1,0	0,0	11,0	29,8	-4,0	1,0	0,0	11,0	29,8	-4,0	2,0	0,0
95	14/11/2013 14:30	20,0	29,9	-1,0	-4,0	7,0	20,0	30,0	0,0	-5,0	6,0	20,0	29,8	-3,0	1,0	2,0	20,0	29,8	-4,0	1,0	2,0	20,0	29,8	-4,0	1,0	1,0
96	25/11/2013 15:30	12,0	29,9	-1,0	-2,0	6,0	12,0	30,0	0,0	-2,0	6,0	12,0	29,8	-3,0	2,0	0,0	12,0	29,8	-4,0	3,0	1,0	12,0	29,8	-4,0	3,0	1,0
97	30/11/2013 08:30	7,0	29,9	-1,0	-3,0	7,0	7,0	30,0	0,0	-3,0	6,0	7,0	29,8	-3,0	2,0	2,0	7,0	29,8	-3,0	2,0	2,0	7,0	29,8	-3,0	3,0	2,0
98	05/12/2013 08:30	7,0	29,9	-1,0	-3,0	7,0	7,0	30,0	1,0	-4,0	5,0	7,0	29,8	-3,0	1,0	2,0	7,0	29,8	-3,0	1,0	2,0	7,0	29,8	-3,0	1,0	1,0
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100	27/12/2013 09:00	8,0	29,9	-3,0	-4,0	5,0	8,0	30,0	-1,0	-5,0	5,0	8,0	29,8	-8,0	-1,0	3,0	8,0	29,8	-5,0	0,0	3,0	8,0	29,8	-5,0	0,0	3,0
101	02/01/2014 07:30	14,0	29,9	-4,0	-4,0	5,0	14,0	30,0	-2,0	-5,0	4,0	14,0	29,8	-7,0	0,0	2,0	14,0	29,8	-6,0	1,0	2,0	14,0	29,8	-6,0	1,0	2,0
102	08/01/2014 14:30	14,0	29,9	-2,0	-4,0	8,0	14,0	30,0	-2,0	-5,0	6,0	14,0	29,8	-4,0	1,0	2,0	14,0	29,8	-4,0	1,0	2,0	14,0	29,8	-4,0	1,0	2,0
103	15/01/2014 08:30	11,0	29,9	-1,0	-5,0	6,0	11,0	30,0	0,0	-5,0	6,0	11,0	29,8	-3,0	0,0	0,0	11,0	29,8	-4,0	1,0	1,0	11,0	29,8	-4,0	1,0	1,0
104	22/01/2014 14:30	12,0	29,9	0,0	-5,0	7,0	12,0	30,0	0,0	-6,0	5,0	12,0	29,8	-2,0	0,0	1,0	12,0	29,8	-4,0	1,0	1,0	12,0	29,8	-4,0	1,0	1,0
105	29/01/2014 08:30	7,0	29,9	-1,0	-4,0	7,0	7,0	30,0	0,0	-4,0	6,0	7,0	29,8	-3,0	1,0	2,0	7,0	29,8	-4,0	1,0	1,0	7,0	29,8	-4,0	1,0	1,0
106	06/02/2014 14:30	14,0	29,9	-2,0	-5,0	8,0	14,0	30,0	-1,0	-6,0	7,0	14,0	29,8	-4,0	1,0	4,0	14,0	29,8	-4,0	1,0	3,0	14,0	29,8	-4,0	1,0	3,0
107	12/02/2014 08:30	11,0	29,9	-2,0	-3,0	10,0	11,0	30,0	-2,0	-3,0	8,0	11,0	29,8	-5,0	1,0	5,0	11,0	29,8	-4,0	3,0	4,0	11,0	29,8	-4,0	3,0	4,0
108	19/02/2014 14:30	18,0	29,9	-2,0	-5,0	7,0	18,0	30,0	-2,0	-6,0	6,0	18,0	29,8	-5,0	0,0	3,0	18,0	29,8	-4,0	2,0	2,0	18,0	29,8	-4,0	2,0	2,0
109	28/02/2014 08:30	12,0	29,9	-1,0	-3,0	11,0	12,0	30,0	-2,0	-4,0	8,0	12,0	29,8	-4,0	2,0	4,0	12,0	29,8	-4,0	2,0	3,0	12,0	29,8	-4,0	2,0	3,0
110	06/03/2014 16:30	15,0	29,9	-1,0	-2,0	9,0	15,0	30,0	-2,0	-4,0	7,0	15,0	29,8	-5,0	3,0	4,0	15,0	29,8	-4,0	2,0	3,0	15,0	29,8	-4,0	2,0	3,0
111	10/03/2014 08:30	10,0	29,9	-2,0	-5,0	8,0	10,0	30,0	-2,0	-4,0	7,0	10,0	29,8	-4,0	1,0	6,0	10,0	29,8	-4,0	1,0	4,0	10,0	29,8	-4,0	1,0	4,0
112	17/03/2014 15:30	15,0	29,9	-2,0	-3,0	8,0	15,0	30,0	-2,0	-4,0	6,0	15,0	29,8	-4,0	2,0	6,0	15,0	29,8	-4,0	2,0	3,0	15,0	29,8	-4,0	2,0	3,0
113	24/03/2014 08:30	10,0	29,9	-2,0	-4,0	7,0	10,0	30,0	-2,0	-5,0	6,0	10,0	29,8	-4,0	3,0	4,0	10,0	29,8	-4,0	2,0	3,0	10,0	29,8	-4,0	2,0	3,0
114	01/04/2014 18:30	15,0	29,9	-2,0	-5,0	11,0	15,0	30,0	-2,0	-6,0	8,0	15,0	29,8	-4,0	0,0	6,0	15,0	29,8	-4,0	0,0	5,0	15,0	29,8	-4,0	0,0	5,0
115	09/04/2014 08:30	15,0	29,9	-2,0	-3,0	10,0	15,0	30,0	-2,0	-4,0	7,0	15,0	29,8	-4,0	3,0	5,0	15,0	29,8	-4,							



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

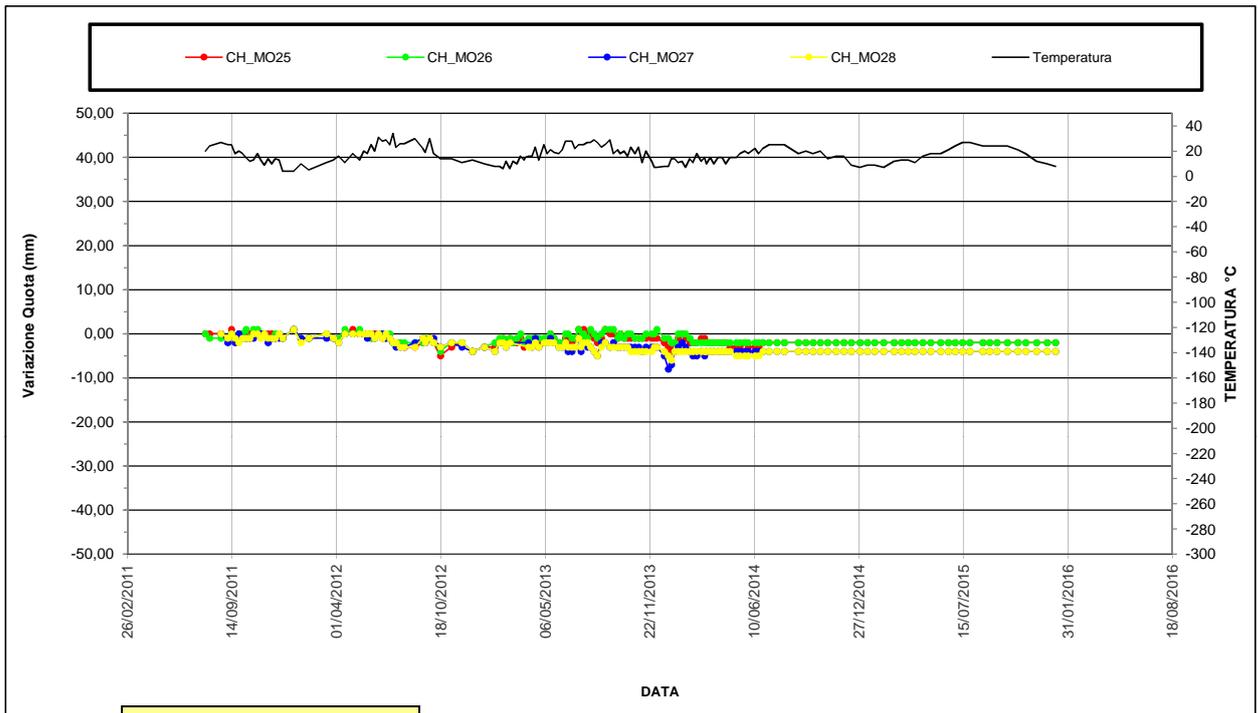
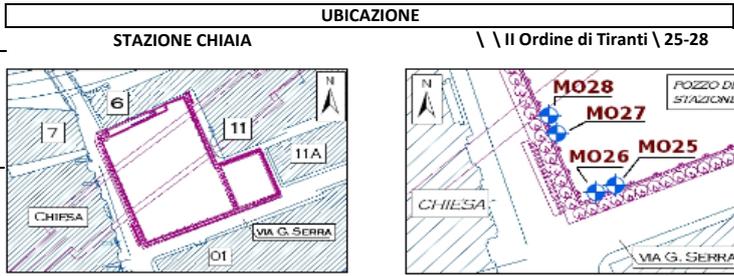
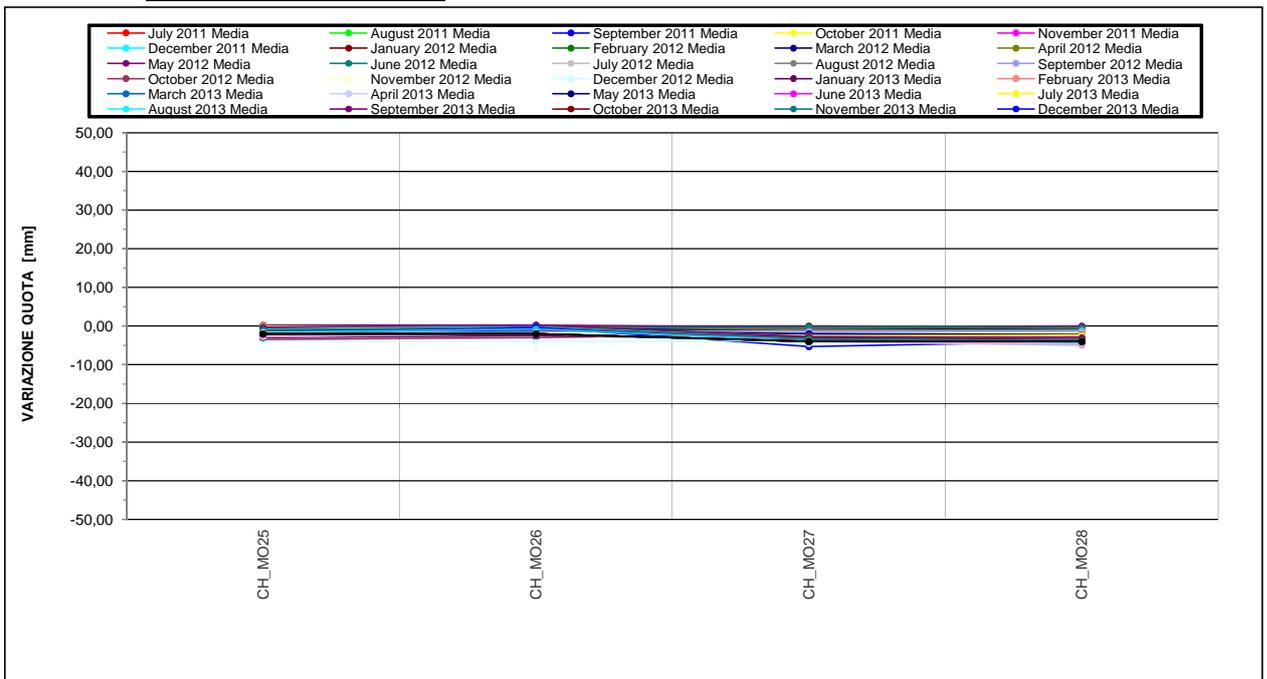


GRAFICO ISOCRONE





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

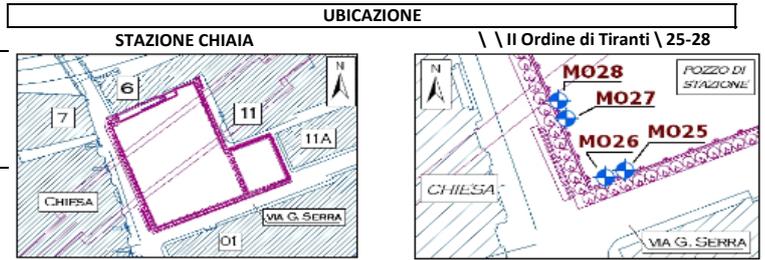


GRAFICO EST

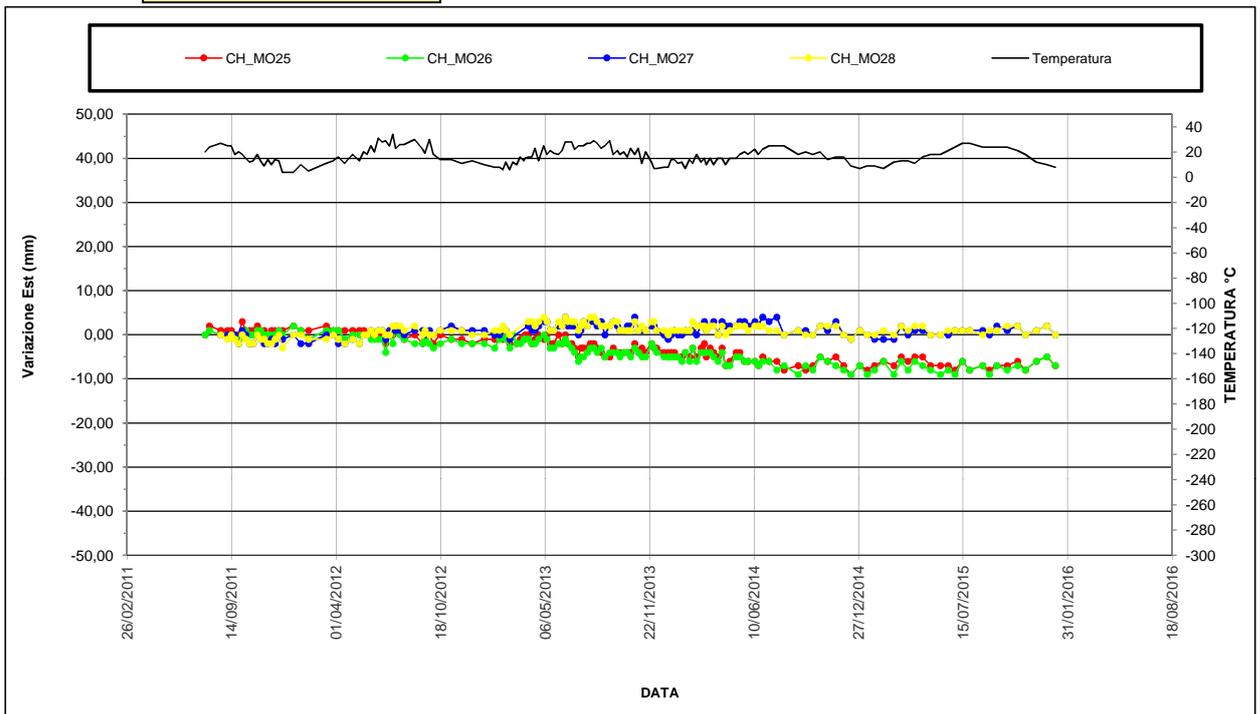
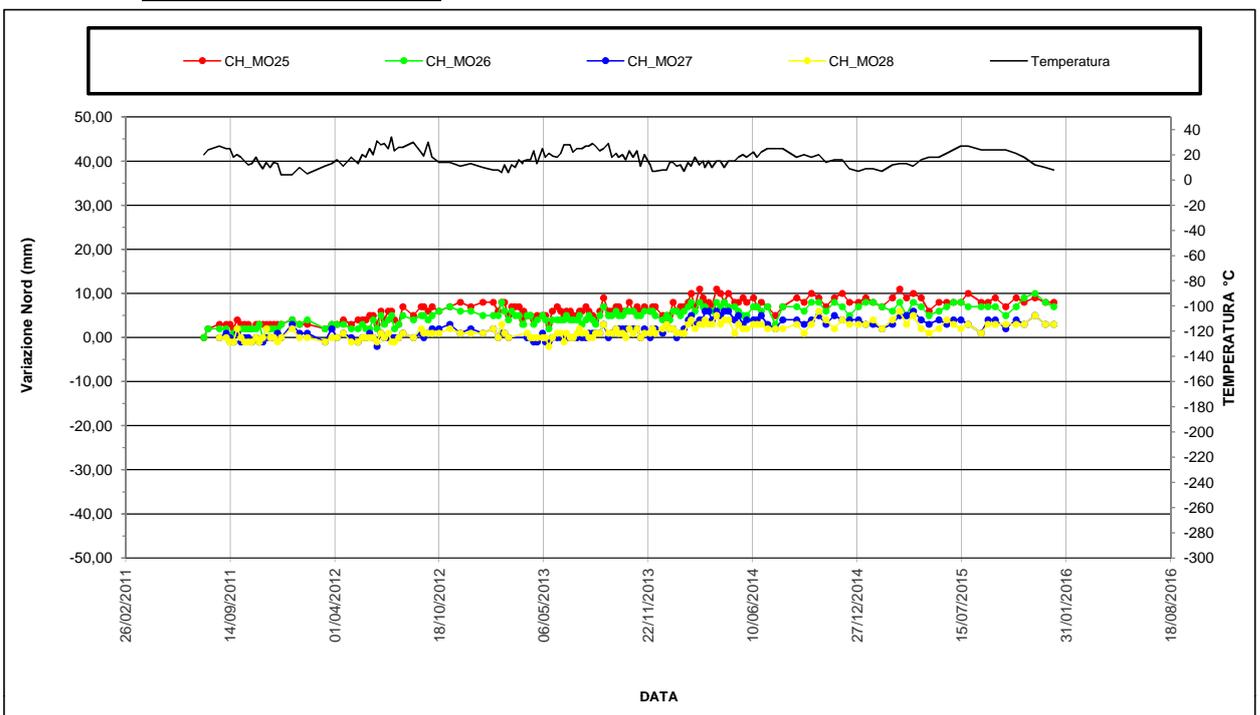


GRAFICO NORD





Ubicazione STAZIONE CHIAIA

Opera \ \ Il 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 157 in data 07/01/2016

Letto. 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]
67	22/05/2013 08:30	19,0	30,0	-1,0	4,0	1,0	19,0	30,0	-1,0	3,0	1,0	19,0	27,9	1,0	3,0	1,0	19,0	28,0	1,0	2,0	0,0
68	31/05/2013 15:30	18,0	30,0	-3,0	4,0	2,0	18,0	30,0	-2,0	4,0	3,0	18,0	27,9	0,0	2,0	1,0	18,0	28,0	0,0	2,0	0,0
69	07/06/2013 08:30	21,0	30,0	-4,0	5,0	1,0	21,0	30,0	-2,0	4,0	3,0	21,0	27,9	1,0	4,0	1,0	21,0	28,0	-1,0	3,0	1,0
70	13/06/2013 14:30	28,0	30,0	-1,0	5,0	0,0	28,0	30,0	-1,0	5,0	1,0	28,0	27,9	2,0	4,0	-1,0	28,0	28,0	1,0	4,0	-1,0
71	18/06/2013 09:00	28,0	30,0	-2,0	4,0	1,0	28,0	30,0	-2,0	3,0	3,0	28,0	27,9	1,0	3,0	1,0	28,0	28,0	0,0	2,0	1,0
72	25/06/2013 18:00	28,0	30,0	-3,0	3,0	1,0	28,0	30,0	-2,0	5,0	2,0	28,0	27,9	1,0	4,0	1,0	28,0	28,0	-1,0	3,0	0,0
73	01/07/2013 07:30	22,0	30,0	-2,0	5,0	2,0	22,0	30,0	-2,0	4,0	2,0	22,0	27,9	1,0	5,0	0,0	22,0	28,0	0,0	4,0	0,0
74	08/07/2013 17:30	25,0	30,0	-2,0	3,0	1,0	25,0	30,0	-1,0	2,0	2,0	25,0	27,9	2,0	4,0	1,0	25,0	28,0	0,0	1,0	0,0
75	13/07/2013 07:30	25,0	30,0	-3,0	4,0	2,0	25,0	30,0	-2,0	4,0	3,0	25,0	27,9	1,0	4,0	1,0	25,0	28,0	0,0	4,0	1,0
76	18/07/2013 07:30	25,0	30,0	-1,0	4,0	1,0	25,0	30,0	-1,0	3,0	2,0	25,0	27,9	2,0	4,0	1,0	25,0	28,0	1,0	3,0	0,0
77	25/07/2013 18:00	27,0	30,0	-3,0	5,0	2,0	27,0	30,0	-2,0	4,0	2,0	27,0	27,9	1,0	4,0	1,0	27,0	28,0	0,0	3,0	0,0
78	31/07/2013 09:00	27,0	30,0	-3,0	6,0	1,0	27,0	30,0	-1,0	5,0	2,0	27,0	27,9	1,0	4,0	1,0	27,0	28,0	0,0	3,0	-1,0
79	07/08/2013 09:00	29,0	30,0	-4,0	5,0	1,0	29,0	30,0	-2,0	5,0	2,0	29,0	27,9	0,0	3,0	1,0	29,0	28,0	-1,0	2,0	-2,0
80	13/08/2013 09:00	27,0	30,0	-5,0	4,0	2,0	27,0	30,0	-3,0	4,0	3,0	27,0	27,9	-1,0	2,0	2,0	27,0	28,0	-2,0	0,0	-1,0
81	21/08/2013 07:30	23,0	30,0	-2,0	5,0	2,0	23,0	30,0	-2,0	5,0	3,0	23,0	27,9	2,0	6,0	1,0	23,0	28,0	0,0	4,0	1,0
82	28/08/2013 10:30	25,0	30,0	-1,0	3,0	4,0	25,0	30,0	0,0	3,0	5,0	25,0	27,9	2,0	3,0	3,0	25,0	28,0	1,0	2,0	2,0
83	06/09/2013 17:30	29,0	30,0	-2,0	3,0	1,0	29,0	30,0	-1,0	3,0	3,0	29,0	27,9	2,0	4,0	1,0	29,0	28,0	1,0	1,0	0,0
84	13/09/2013 07:30	18,0	30,0	-2,0	5,0	1,0	18,0	30,0	-2,0	5,0	3,0	18,0	27,9	1,0	4,0	1,0	18,0	28,0	0,0	4,0	0,0
85	21/09/2013 09:30	21,0	30,0	-3,0	5,0	3,0	21,0	30,0	-3,0	4,0	3,0	21,0	27,9	0,0	3,0	2,0	21,0	28,0	0,0	4,0	1,0
86	26/09/2013 09:30	18,0	30,0	-3,0	3,0	2,0	18,0	30,0	-3,0	3,0	2,0	18,0	27,9	1,0	4,0	1,0	18,0	28,0	0,0	2,0	1,0
87	03/10/2013 16:30	20,0	30,0	-3,0	3,0	2,0	20,0	30,0	-2,0	3,0	3,0	20,0	27,9	1,0	3,0	2,0	20,0	28,0	0,0	2,0	1,0
88	10/10/2013 08:30	16,0	30,0	-3,0	4,0	2,0	16,0	30,0	-2,0	4,0	3,0	16,0	27,9	1,0	3,0	1,0	16,0	28,0	0,0	3,0	0,0
89	16/10/2013 14:30	23,0	30,0	-4,0	3,0	2,0	23,0	30,0	-3,0	4,0	3,0	23,0	27,9	0,0	3,0	1,0	23,0	28,0	-1,0	2,0	1,0
90	24/10/2013 08:30	18,0	30,0	-4,0	5,0	1,0	18,0	30,0	-3,0	5,0	2,0	18,0	27,9	0,0	5,0	1,0	18,0	28,0	-1,0	4,0	1,0
91	31/10/2013 14:30	23,0	30,0	-4,0	4,0	3,0	23,0	30,0	-3,0	3,0	4,0	23,0	27,9	0,0	3,0	2,0	23,0	28,0	-1,0	2,0	1,0
92	07/11/2013 08:30	11,0	30,0	-4,0	5,0	2,0	11,0	30,0	-3,0	4,0	3,0	11,0	27,9	0,0	3,0	1,0	11,0	28,0	-1,0	4,0	0,0
93	14/11/2013 14:30	20,0	30,0	-3,0	3,0	2,0	20,0	30,0	-3,0	3,0	3,0	20,0	27,9	1,0	4,0	1,0	20,0	28,0	-1,0	2,0	0,0
94	25/11/2013 15:30	12,0	30,0	-3,0	5,0	2,0	12,0	30,0	-3,0	4,0	1,0	12,0	27,9	1,0	4,0	1,0	12,0	28,0	-1,0	3,0	-1,0
95	30/11/2013 08:30	7,0	30,0	-3,0	5,0	3,0	7,0	30,0	-3,0	5,0	3,0	7,0	27,9	1,0	4,0	2,0	7,0	28,0	-1,0	4,0	0,0
96	05/12/2013 08:30	7,0	30,0	-3,0	4,0	2,0	7,0	30,0	-3,0	4,0	3,0	7,0	27,9	1,0	5,0	1,0	7,0	28,0	-1,0	3,0	0,0
97	19/12/2013 13:00	8,0	30,0	-5,0	3,0	3,0	8,0	30,0	-4,0	3,0	3,0	8,0	27,9	-1,0	3,0	2,0	8,0	28,0	-2,0	2,0	1,0
98	27/12/2013 09:00	8,0	30,0	-6,0	2,0	4,0	8,0	30,0	-5,0	2,0	4,0	8,0	27,9	-2,0	1,0	4,0	8,0	28,0	-3,0	1,0	3,0
99	02/01/2014 07:30	14,0	30,0	-6,0	3,0	3,0	14,0	30,0	-6,0	2,0	4,0	14,0	27,9	-3,0	0,0	3,0	14,0	28,0	-4,0	1,0	2,0
100	08/01/2014 14:30	14,0	30,0	-4,0	2,0	2,0	14,0	30,0	-4,0	2,0	4,0	14,0	27,9	-1,0	1,0	2,0	14,0	28,0	-2,0	1,0	2,0
101	15/01/2014 08:30	11,0	30,0	-3,0	3,0	2,0	11,0	30,0	-3,0	3,0	3,0	11,0	27,9	0,0	3,0	1,0	11,0	28,0	-1,0	0,0	0,0
102	22/01/2014 14:30	12,0	30,0	-3,0	1,0	1,0	12,0	30,0	-3,0	3,0	3,0	12,0	27,9	1,0	3,0	1,0	12,0	28,0	0,0	1,0	0,0
103	29/01/2014 08:30	7,0	30,0	-4,0	4,0	3,0	7,0	30,0	-4,0	3,0	3,0	7,0	27,9	1,0	4,0	1,0	7,0	28,0	-1,0	2,0	1,0
104	06/02/2014 14:30	14,0	30,0	-4,0	3,0	4,0	14,0	30,0	-5,0	2,0	3,0	14,0	27,9	0,0	3,0	3,0	14,0	28,0	-1,0	1,0	2,0
105	12/02/2014 08:30	11,0	30,0	-4,0	4,0	4,0	11,0	30,0	-5,0	4,0	4,0	11,0	27,9	0,0	4,0	4,0	11,0	28,0	-1,0	4,0	3,0
106	19/02/2014 14:30	18,0	30,0	-4,0	3,0	3,0	18,0	30,0	-4,0	2,0	2,0	18,0	27,9	0,0	5,0	3,0	18,0	28,0	-1,0	4,0	1,0
107	28/02/2014 08:30	12,0	30,0	-4,0	3,0	3,0	12,0	30,0	-4,0	2,0	4,0	12,0	27,9	0,0	3,0	4,0	12,0	28,0	-1,0	2,0	2,0
108	06/03/2014 16:30	15,0	30,0	-4,0	3,0	3,0	15,0	30,0	-4,0	2,0	3,0					15,0	28,0	-1,0	3,0	3,0	
109	10/03/2014 08:30	10,0	30,0	-4,0	4,0	4,0	10,0	30,0	-4,0	3,0	4,0					10,0	28,0	-1,0	2,0	2,0	
110	17/03/2014 15:30	15,0	30,0	-4,0	4,0	3,0	15,0	30,0	-4,0	3,0	3,0					15,0	28,0	-1,0	2,0	2,0	
111	24/03/2014 08:30	10,0	30,0	-4,0	4,0	4,0	10,0	30,0	-4,0	3,0	3,0					10,0	28,0	-1,0	1,0	2,0	
112	01/04/2014 18:30	15,0	30,0	-4,0	2,0	5,0	15,0	30,0	-4,0	3,0	6,0					15,0	28,0	0,0	1,0	4,0	
113	09/04/2014 08:30	15,0	30,0	-4,0	3,0	3,0	15,0	30,0	-4,0	3,0	3,0					15,0	28,0	0,0	3,0	2,0	
114	16/04/2014 08:30	10,0	30,0	-4,0	2,0	4,0	10,0	30,0	-4,0	2,0	5,0					10,0	28,0	0,0	1,0	3,0	
115	24/04/2014 08:30	15,0	30,0	-4,0	2,0	5,0	15,0	30,0	-4,0	1,0	4,0					15,0	28,0	0,0	1,0	3,0	
116	06/05/2014 08:30	15,0	30,0	-4,0	4,0	3,0	15,0	30,0	-4,0	3,0	3,0					15,0	28,0	-1,0	3,0	1,0	
117	13/05/2014 08:30	18,0	30,0	-4,0	3,0	3,0	18,0	30,0	-4,0	4,0	4,0					18,0	28,0	-1,0	1,0	3,0	
118	22/05/2014 08:30	20,0	30,0	-4,0	3,0	3,0	20,0	30,0	-4,0	3,0	4,0					20,0	28,0	-1,0	1,0	1,0	
119	29/05/2014 08:30	18,0	30,0	-5,0	2,0	2,0	18,0	30,0	-4,0	2,0	3,0					18,0	28,0	-1,0	1,0	2,0	
120	11/06/2014 08:30	22,0	30,0	-5,0	2,0	2,0	22,0	30,0	-4,0	1,0	3,0					22,0	28,0	-1,0	0,0	2,0	
121	18/06/2014 08:30	18,0	30,0	-5,0	4,0	4,0	18,0	30,0	-4,0	3,0	5,0					18,0	28,0	-1,0	2,0	3,0	
122	26/06/2014 08:30	23,0	30,0	-5,0	3,0	3,0	23,0	30,0	-4,0	4,0	5,0					23,0	28,0	0,0	2,0	2,0	
123	08/07/2014 08:30	25,0	30,0	-5,0	3,0	3,0	25,0	30,0	-4,0	4,0	4,0					25,0	28,0	0,0	4,0	2,0	
124	23/07/2014 08:30	25,0	30,0	-5,0	3,0	2,0	25,0	30,0	-4,0	3,0	3,0					25,0	28,0	0,0	2,0	1,0	
125	06/08/2014 08:30	25,0	30,0	-5,0	2,0	4,0	25,0	30,0	-4,0	2,0	5,0	25,0	27,9								



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 QUOTA

UBICAZIONE

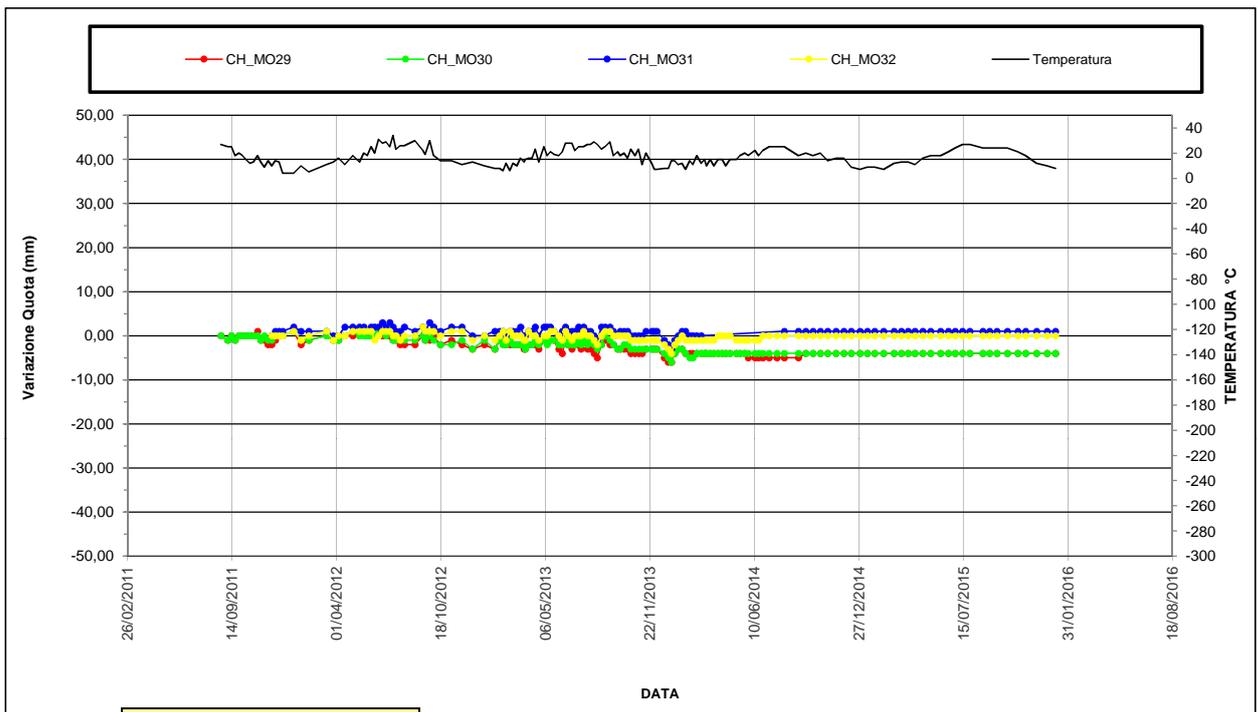
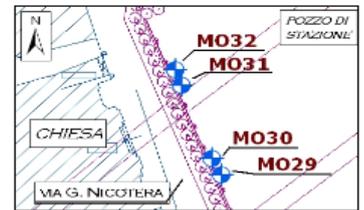
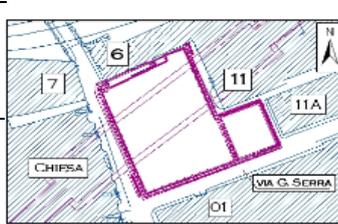
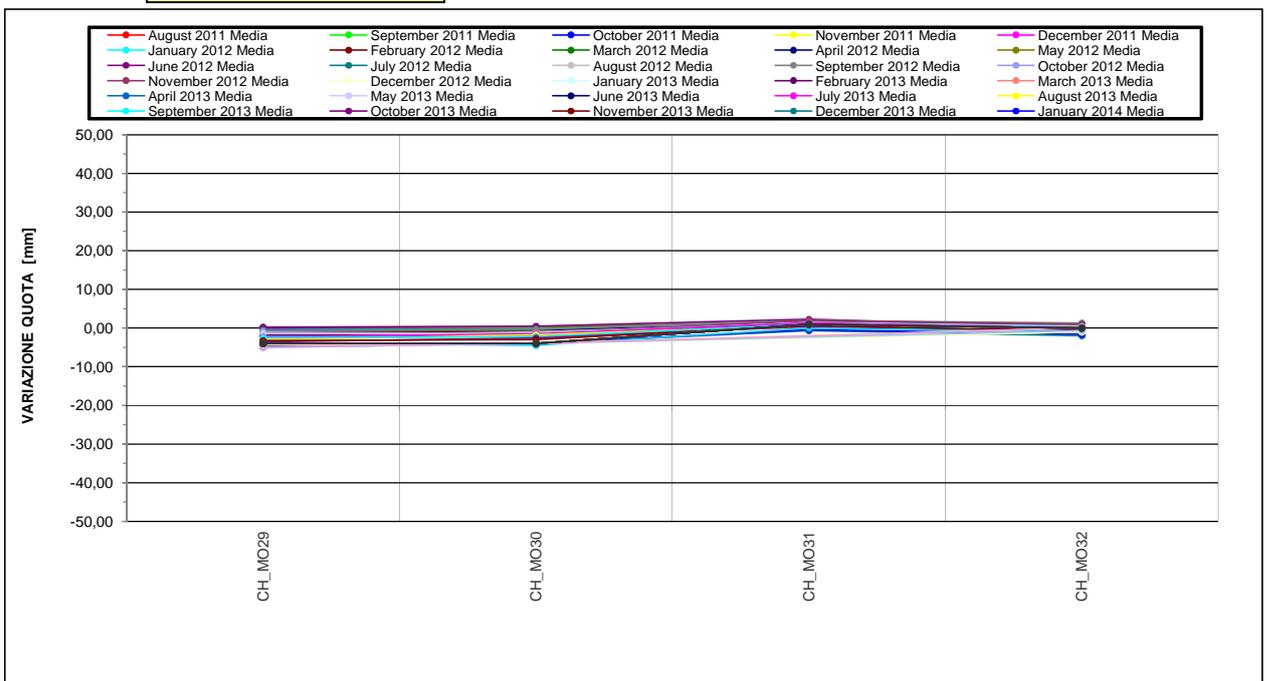


GRAFICO ISOCRONE





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

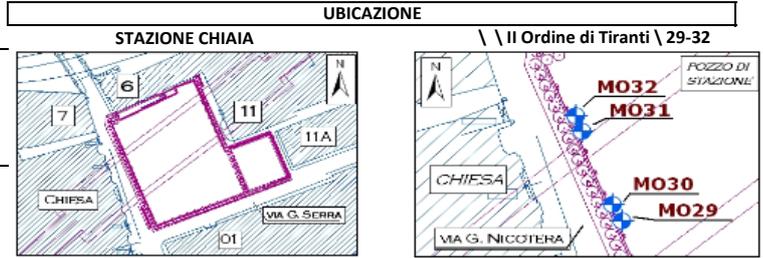


GRAFICO EST

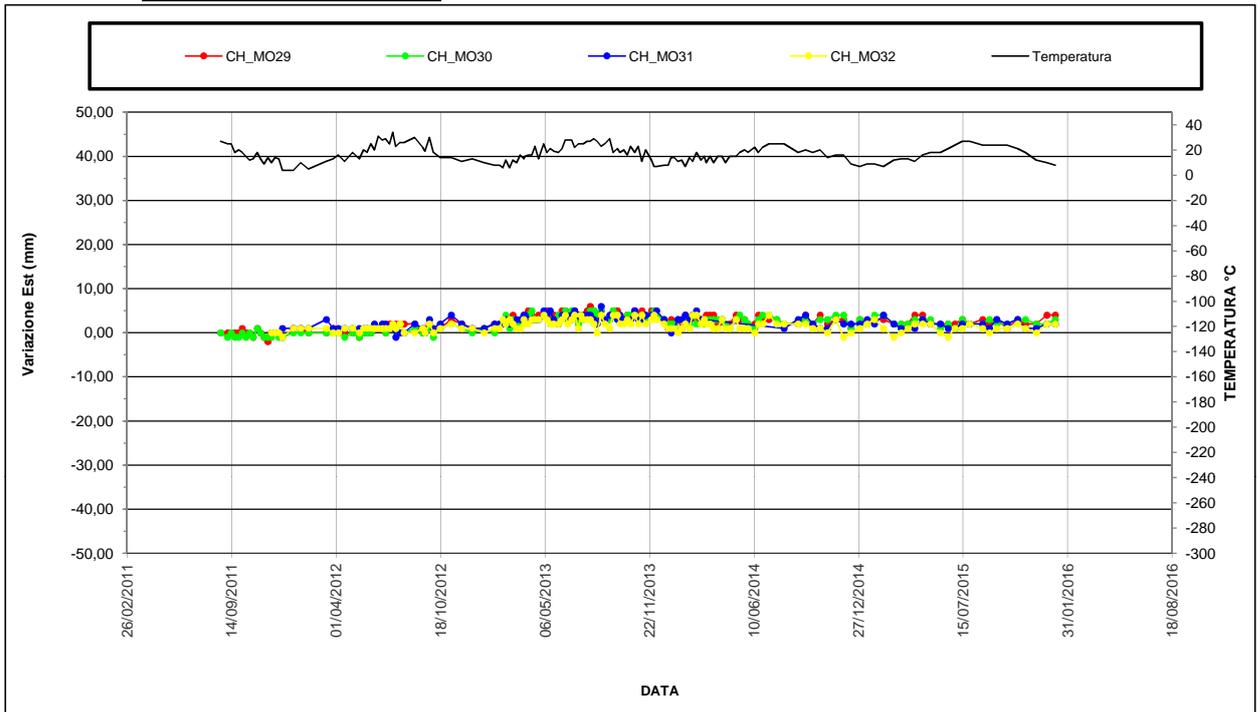
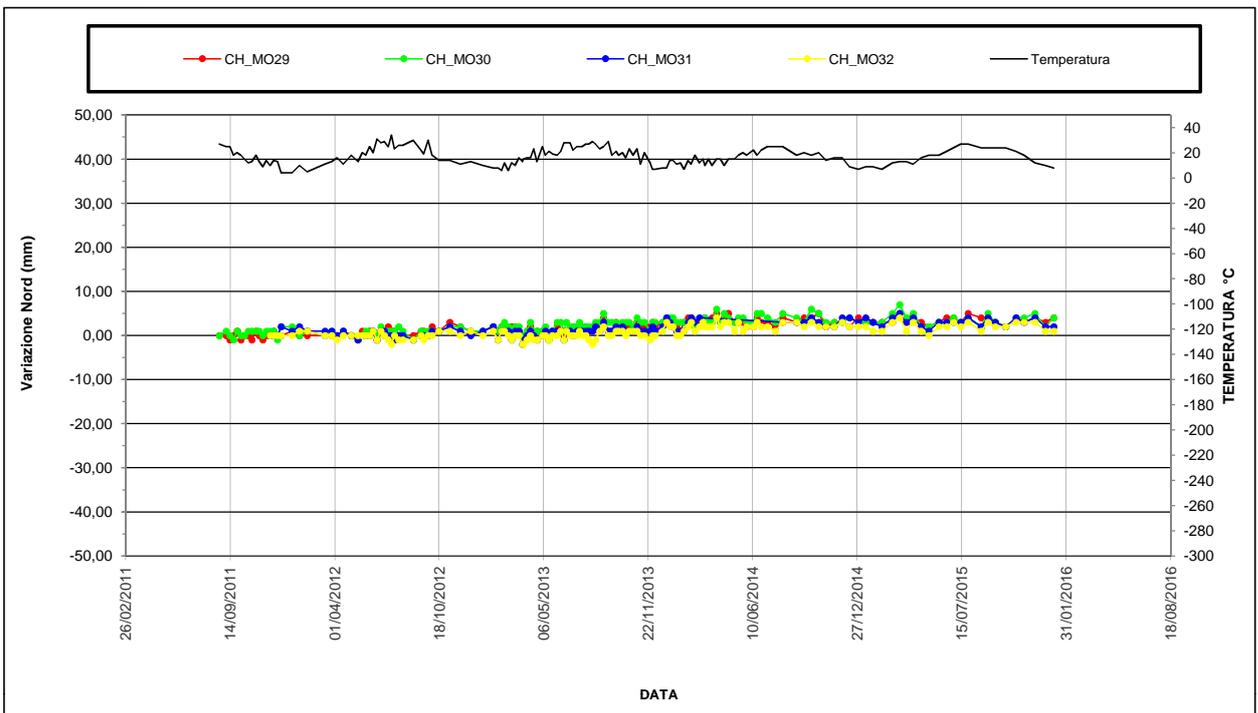


GRAFICO NORD



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

AM	AM_IN_P31_1	INCLINOMETRO	31/31						0	4
AM	AM_IN_P32_1	INCLINOMETRO	38/38						0	4
AM	AM_IN_P61_1	INCLINOMETRO	37/37	1				P	1	6
AM	AM_IN_P62_1	INCLINOMETRO	36/36	1				P	1	7
AM	AM_IN_P76	INCLINOMETRO	39/39						0	6
AM	AM_IN_P77	INCLINOMETRO	40/40						0	6
AM	AM_IN_P87	INCLINOMETRO	32/42						0	3
AM	AM_IN_P104	INCLINOMETRO	40/40						0	9
AM	AM_IN_P105	INCLINOMETRO	40/40						0	10
AM	AM_IN1	INCLINOMETRO	0/50						0	0
AM	AM_IN2	INCLINOMETRO	0/50						0	0
AM	AM_IN_P5	INCLINOMETRO	0/40						0	0
AM	AM_IN_P17	INCLINOMETRO	29/40						0	1
AM	AM_IN_P31	INCLINOMETRO	0/35						0	0
AM	AM_IN_P32	INCLINOMETRO	40/40						0	1
AM	AM_IN_P61	INCLINOMETRO	0/40						0	0
AM	AM_IN_P62	INCLINOMETRO	4/40						0	0
AM	AM_EI2/ ES2	ESTENSO-INCLINOMETRO	0/50						0	0
AM	AM_PZ8 (KOLLHOFF)	PIEZ. TUBO APERTO	25						0	0
AM	AM_PZ9 (KOLLHOFF)	PIEZ. TUBO APERTO	25						0	0
AM	AM_PZ10 (KOLLHOFF)	PIEZ. TUBO APERTO	25						0	0
AM	AM_PZ1_S	PIEZ. CASAGRANDE	10						0	1
AM	AM_PZ1_P	PIEZ. CASAGRANDE	28						0	1
AM	AM_PZ1_S	PIEZ. CASAGRANDE	10						0	4
AM	AM_PZ11_S	PIEZ. CASAGRANDE	28						0	2
AM	AM_PZ11_P	PIEZ. CASAGRANDE	36						0	2
AM	AM_PZ12_S	PIEZ. CASAGRANDE	24						0	4
AM	AM_PZ12_P	PIEZ. CASAGRANDE	32						0	4
AM	AM_PZ13_S	PIEZ. CASAGRANDE	27						0	3
AM	AM_PZ13_P	PIEZ. CASAGRANDE	34						0	3
AM	AM_PZ14_S	PIEZ. CASAGRANDE	27						0	4
AM	AM_PZ14_P	PIEZ. CASAGRANDE	35						0	5
AM	AM_PZ15_S	PIEZ. CASAGRANDE	23						0	4
AM	AM_PZ15_P	PIEZ. CASAGRANDE	30						0	4
AM	AM_PZ16_S	PIEZ. CASAGRANDE	23						0	3
AM	AM_PZ16_P	PIEZ. CASAGRANDE	30						0	3
AM	AM_PZ17_S	PIEZ. CASAGRANDE	25						0	3
AM	AM_PZ17_P	PIEZ. CASAGRANDE	30						0	3
AM	AM_PZ18_S	PIEZ. CASAGRANDE	29						0	3
AM	AM_PZ18_P	PIEZ. CASAGRANDE	31						0	3
AM	AM_PZ19_S	PIEZ. CASAGRANDE	28						0	3
AM	AM_PZ19_P	PIEZ. CASAGRANDE	35						0	3
AM	AM_PZ20_S	PIEZ. CASAGRANDE	29						0	3
AM	AM_PZ20_P	PIEZ. CASAGRANDE	34						0	3
AM	AM_PZ21_S	PIEZ. CASAGRANDE	29						0	0
AM	AM_PZ21_P	PIEZ. CASAGRANDE	32						0	0
AM	AM_PZ22_S	PIEZ. CASAGRANDE	29						0	0
AM	AM_PZ22_P	PIEZ. CASAGRANDE	32						0	0
AM	AM_PZ23_S	PIEZ. CASAGRANDE	29						0	0
AM	AM_PZ23_P	PIEZ. CASAGRANDE	32						0	0
AM	AM_PZ24_S	PIEZ. CASAGRANDE	30						0	0
AM	AM_PZ24_P	PIEZ. CASAGRANDE	29						0	0

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

AM	AM_IN_P6	INCLINOMETRO	3/44							0	1
AM	AM_IN_P88	INCLINOMETRO	08/36							0	1

Note:

Gli strumenti AM_EI3 bis/ES3 bis (ESTENSO-INCLINOMETRO) e AM_EI1/AM_ES1 (ESTENSO-INCLINOMETRO) risultano leggibili con la sonda inclinometrica ma con la sonda estensimetrica. Pertanto nel programma di monitoraggio verranno eseguite le sole letture inclinometriche.

STAZIONE CHIAIA

COD.STAZIONE	COD. STRUM.	TIPOLOGIA STRUM.	METRI da p.c.	25/1	26/1	27/1	28/1	29/1	ESITO	TOT MESE	TOTALE
CH	CH_PZ2	PIEZ. TUBO APERTO	50							0	2
CH	CH_PZ4	PIEZ. TUBO APERTO	50/50							0	0
CH	CH_PZ5	PIEZ. CASAGRANDE	40							0	0
CH	CH_PZ6_S	PIEZ. CASAGRANDE	50							0	0
CH	CH_PZ6_P	PIEZ. CASAGRANDE	42							0	0
CH	CH_PZ7	PIEZ. CASAGRANDE	47							0	0
CH	CH_EI1/ES1	ESTENSO-INCLINOMETRO	25/54							0	1
CH	CH_IN1	INCLINOMETRO	54/54							0	1
CH	CH_IN3	INCLINOMETRO	54/54							0	1
CH	CH_IN4	INCLINOMETRO	50/50							0	0
CH	CH_IN_P13	INCLINOMETRO	20/20							0	4
CH	CH_IN_P50	INCLINOMETRO	18/18							0	4
CH	CH_IN_P81	INCLINOMETRO	24/24							0	1
CH	CH_IN_P67	INCLINOMETRO	23/23							0	3
CH	CH_PZ1	PIEZ. TUBO APERTO	50/50							0	2
CH	CH_PZ3	PIEZ. TUBO APERTO	40/40							0	0
CH	CH_EI2/ES2	ESTENSO-INCLINOMETRO	55/55							0	1
CH	CH_IN2	INCLINOMETRO	54/54							0	3

Note:

Lo strumento CH_EI1/ES1(ESTENSO-INCLINOMETRO) risulta leggibile per 25m rispetto agli iniziali 54. Tale riduzione è dovuta al passaggio della TBM che ha intercettato lo strumento tagliando la porzione inferiore interferente con la galleria.

STAZIONE MUNICIPIO

COD.STAZIONE	COD. STRUM.	TIPOLOGIA STRUM.	METRI da p.c.	25/1	26/1	27/1	28/1	29/1	ESITO	TOT MESE	TOTALE
MU	MU_PZ1	PIEZ. TUBO APERTO	16,5							0	6
MU	MU_PZ2	PIEZ. TUBO APERTO	25,5							0	6
MU	MU_PZ3	PIEZ. TUBO APERTO	25,20							0	5
MU	MU_PZ4	PIEZ. TUBO APERTO	23,80							0	9
MU	MU_PZ5	PIEZ. TUBO APERTO	17,70							0	10
MU	MU_PZ6	PIEZ. TUBO APERTO	13							0	8
MU	MU_EI1/ES1	ESTENSO-INCLINOMETRO	35/35							0	4
MU	MU_EI2/ES2	ESTENSO-INCLINOMETRO	34/34							0	6
MU	MU_EI3/ES3	ESTENSO-INCLINOMETRO	34/34							0	6
MU	MU_EI4/ES4	ESTENSO-INCLINOMETRO	35/35							0	4

CAMERE DI VENTILAZIONE

TORRETTA

COD.STAZIONE	COD. STRUM.	TIPOLOGIA STRUM.	METRI da p.c.	25/1	26/1	27/1	28/1	29/1	ESITO	TOT MESE	TOTALE
CDV_TOR	CDV_TOR_EI1/ES1	ESTENSO-INCLINOMETRO	31/31		1				P	1	1

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

GL_AS	GL_AS_SC03_EI1/ES1	ESTENSO-INCLINOMETRO	34/34								0	3
GL_AS	GL_AS_SC03_EI2/ES2	ESTENSO-INCLINOMETRO	34/34								0	3
GL_AS	GL_AS_SC02_PZ	PIEZ. CASAGRANDE	35								0	7
GL_AS	GL_AS_SC03_PZ	PIEZ. CASAGRANDE	35								0	7
GL_AS	GL_AS_SP03_PZ	PIEZ. CASAGRANDE	35								0	6

TRATTA SAN PASQUALE / CHIAIA

COD.STAZIONE	COD. STRUM.	TIPOLOGIA STRUM.	METRI da p.c.	25/1	26/1	27/1	28/1	29/1	ESITO	TOT MESE	TOTALE
GL_SH	GL_SH_SC04_EI1/ES1	ESTENSO-INCLINOMETRO	35/35							0	4
GL_SH	GL_SH_SC04_EI2/ES2	ESTENSO-INCLINOMETRO	35/35							0	3
GL_SH	GL_SH_SP04_EI1/ES1	ESTENSO-INCLINOMETRO	34/34							0	2
GL_SH	GL_SH_SP04_EI2/ES2	ESTENSO-INCLINOMETRO	31/31							0	1
GL_SH	GL_SH_SC05_EI1/ES1	ESTENSO-INCLINOMETRO	30/30							0	1
GL_SH	GL_SH_SC05_EI2/ES2	ESTENSO-INCLINOMETRO	30/30							0	1
GL_SH	GL_SH_SC04_PZ	PIEZ. CASAGRANDE	35							0	5
GL_SH	GL_SH_SP04_PZ	PIEZ. CASAGRANDE	35							0	6
GL_SH	GL_SH_SC05_PZ	PIEZ. CASAGRANDE	30							0	3

TRATTA CHIAIA / MUNICIPIO

COD.STAZIONE	COD. STRUM.	TIPOLOGIA STRUM.	METRI da p.c.	25/1	26/1	27/1	28/1	29/1	ESITO	TOT MESE	TOTALE
GL_CM	GL_CM_SC06_PZ2	PIEZ. CASAGRANDE	40/40							0	5
GL_CM	GL_CM_SC06_EI/ES	ESTENSO-INCLINOMETRO	37/37							0	2
GL_CM	GL_CM_SC06_PZ1	PIEZ. CASAGRANDE	40/40							0	3

LEGENDA

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

NOTE

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

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.

AM_PZ5_S

AM_PZ6_S