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“Quantification du couplage au long de la subduction chilienne”
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ANNEXES TECHNIQUES

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Avant propos

Cette annexe technique a été conçue pour celles et ceux qui voudront se replonger dans le détail des traitements de la masse considérable de données de campagne acquises au Chili depuis 1996. Ce document fonctionne plus comme une archive que comme un support technique adapté à une reprise du traitement à l'aide d'outils plus sophistiqués (l'ensemble des calculs ont été réalisés à l'aide des versions de GAMIT et GLOBK 10.35 et 10.4). Pour avoir du me replonger au cours de la thèse dans les archives des campagnes menées par l'équipe de l'IPG dans le Grand Nord Chili, je mesure à quel point ce document peut sembler aride. Il est néanmoins nécessaire pour conserver la mémoire du traitement.

Ce document papier s'associe à une archive numérique de l'ensemble des fichiers H nécessaires à la combinaison et aux fichiers ".eq" et "station.info" essentiels pour le retraitement des données. Bon courage à celles ou ceux qui s'y lanceront. Ils trouveront dans la documentation de GAMIT et GLOBK (disponible ici : <http://www-gpsg.mit.edu/~simon/gtgk/docs.htm>) une aide précieuse.



FIG. 0.1: "Cheap GPS" from xkcd

Chapitre 1

Corrections appliquées lors de la combinaison des campagnes chiliennes

On présente ici le fichier “.eq” utilisé pour combiner l’ensemble des campagnes du Chili retraitées pendant cette thèse. Les campagnes du Grand Nord, du petit Nord et du réseau d’Ovalle-La Serena sont ainsi incluses dans une même solution. Des corrections ont été apportées suite au séisme de Maule pour pouvoir combiner les campagnes pré- et post- 2010, ainsi que des corrections liées aux séismes de Tocopilla (2007) et de Tarapacá (2005) ainsi qu’aux swarms de Punitaqui (1997) et Copiapó (2006). La commande “rename” permet de modifier la position d’un marqueur selon ses coordonnées cartésiennes (XYZ) ou sphériques (NEU) à des dates données. Utilisée pour renommer un marqueur SITE.GPS en SITE.XCL, la commande exclue automatiquement le marqueur du calcul.

#cGPS motions#

```
## c-GPS correction for 2007 maintenance of CONS-SJAV-OVLL-TOLO : antennas changed.  
## calculations were made using continuous time series and evaluating the step from time series calculated by Sylvain Morvan.
```

```
rename cons_gps cons_gps 2007 12 06 00 00 2099 01 01 00 00 0.000 0.000 0.0251 NEU  
rename sjav_gps sjav_gps 2007 12 05 00 00 2099 01 01 00 00 0.000 0.000 0.0166 NEU  
rename ovll_gps ovll_gps 2007 04 27 00 00 2099 01 01 00 00 0.000 0.000 -0.0161 NEU  
rename tolo_gps tolo_gps 2007 05 06 00 00 2099 01 01 00 00 0.000 0.000 0.0208 NEU  
rename maul_gps maul_gps 2007 03 13 00 00 2010 02 26 00 00 0.000 0.000 0.0163 NEU  
rename emat_gps emat_gps 2007 05 08 00 00 2099 00 00 00 00 0.000 0.000 0.0141 NEU
```

```
## Tie between EISL and ISPA
```

```
rename eisl_gps ispa_gps 2000 01 01 00 00 2003 12 16 00 00 3248.07 -2383.93 2291.23 XYZ
```

```
## change of the RIOG station’s name
```

```
rename rio2_gps riog_gps 1900 01 01 00 00 2099 01 01 00 00 0.000 0.000 0.0000 XYZ
```

```
## Tie between MAU0 and MAUL
```

```
rename mau0_gps maul_gps 2002 01 01 00 00 2003 12 22 00 00 -0.0927 0.2718 -0.1241 XYZ
```

```
## change name of Ovalle station
```

```
rename oval_gps ovll_gps
```

```
## exclusion of the year 1996 in LPGS
```

```
rename lpgs_gps lpgi_gps 1996 01 01 00 00 1996 12 31 00 00 0.000 0.000 0.0000 XYZ
```

North Chile earthquake related renames

Mw6-7 sequence coseismic effect after Antofagasta earthquake (1995, Mw8.1)

```

rename calc_gps calb_gps 1990 01 01 00 00 1999 12 31 23 59 0.000 0.000 0.0000 XYZ
rename uape_gps uapb_gps 1990 01 01 00 00 2005 12 31 23 59 0.000 0.000 0.0000 XYZ
rename do10_gps do1x_gps 1990 01 01 00 00 1999 12 31 23 59 0.000 0.000 0.0000 XYZ
rename do20_gps do2x_gps 1990 01 01 00 00 1999 12 31 23 59 0.000 0.000 0.0000 XYZ
rename do40_gps do4x_gps 1990 01 01 00 00 1999 12 31 23 59 0.000 0.000 0.0000 XYZ
rename do60_gps do6x_gps 1990 01 01 00 00 1999 12 31 23 59 0.000 0.000 0.0000 XYZ

```

Arequipa Mw 8.4 23/06/2001 effect on AREQ cGPS station and closest campaign points

```

rename areq_gps are1_gps 1990 01 01 00 00 2001 06 22 00 00 0.000 0.000 0.0000 XYZ
rename areq_gps are2_gps 2003 01 01 00 00 2011 06 23 00 00 0.000 0.000 0.0000 XYZ
rename areq_gps are3_gps 2011 06 24 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename zahu_gps zahb_gps 1990 01 01 00 00 2001 06 22 00 00 0.000 0.000 0.0000 XYZ
rename paco_gps pacb_gps 1990 01 01 00 00 2001 06 22 00 00 0.000 0.000 0.0000 XYZ
rename ar20_gps ar2x_gps 1990 01 01 00 00 2001 06 22 00 00 0.000 0.000 0.0000 XYZ
rename ar30_gps ar3x_gps 1990 01 01 00 00 2001 06 22 00 00 0.000 0.000 0.0000 XYZ
rename ar50_gps ar5b_gps 1990 01 01 00 00 2001 06 22 00 00 0.000 0.000 0.0000 XYZ
rename ar70_gps ar7b_gps 1990 01 01 00 00 2001 06 22 00 00 0.000 0.000 0.0000 XYZ
rename ar70_gps ar7x_gps 2010 01 01 00 00 2012 12 31 00 00 0.000 0.000 0.0000 XYZ
rename ar90_gps ar9b_gps 1990 01 01 00 00 2001 06 22 00 00 0.000 0.000 0.0000 XYZ
rename ar90_gps ar9x_gps 2002 01 01 00 00 2012 12 31 23 59 0.000 0.000 0.0000 XYZ

```

Tarapaca 2005 coseismic and rapid afterslip earthquake signal removed from campaign points

```

rename pica_gps picx_gps 1995 01 01 00 00 2005 01 01 00 00 0.000 0.000 0.0000 XYZ
rename uape_gps uapx_gps 2005 01 01 00 00 2005 09 01 00 00 0.000 0.000 0.0000 XYZ
rename pcha_gps pchx_gps 2005 01 01 00 00 2005 09 01 00 00 0.000 0.000 0.0000 XYZ

```

Tarapaca 2005 coseismic signal removed from campaign points

```

rename iqn0_gps iqn_x_gps 2005 01 01 00 00 2005 12 31 23 59 0.000 0.000 0.0000 XYZ
rename iqn0_gps iqn_b_gps 1996 01 01 00 00 2004 12 31 23 59 0.000 0.000 0.0000 XYZ
rename iqm0_gps iqm_b_gps 1996 01 01 00 00 2004 12 31 23 59 0.000 0.000 0.0000 XYZ
rename iqo0_gps iqo_x_gps 1996 01 01 00 00 2004 12 31 23 59 0.000 0.000 0.0000 XYZ
rename iqp0_gps iqp_b_gps 1996 01 01 00 00 2004 12 31 23 59 0.000 0.000 0.0000 XYZ
rename iqq0_gps iqq_b_gps 1996 01 01 00 00 2004 12 31 23 59 0.000 0.000 0.0000 XYZ
rename iqq0_gps iqq_x_gps 1996 01 01 00 00 2004 12 31 23 59 0.000 0.000 0.0000 XYZ
rename iqi0_gps iqi_b_gps 1996 01 01 00 00 2004 12 31 23 59 0.000 0.000 0.0000 XYZ
rename iqh0_gps iqh_b_gps 1996 01 01 00 00 2004 12 31 23 59 0.000 0.000 0.0000 XYZ
rename iqq0_gps iqq_x_gps 1996 01 01 00 00 2004 12 31 23 59 0.000 0.000 0.0000 XYZ
rename iqf0_gps iqf_b_gps 1996 01 01 00 00 2004 12 31 23 59 0.000 0.000 0.0000 XYZ
rename iqe0_gps iqe_x_gps 1996 01 01 00 00 2004 12 31 23 59 0.000 0.000 0.0000 XYZ
rename iqc0_gps iqc_x_gps 1996 01 01 00 00 2004 12 31 23 59 0.000 0.000 0.0000 XYZ
rename iqb0_gps iqb_b_gps 1996 01 01 00 00 2004 12 31 23 59 0.000 0.000 0.0000 XYZ
rename iqa0_gps iqa_b_gps 1996 01 01 00 00 2004 12 31 23 59 0.000 0.000 0.0000 XYZ
rename iqd0_gps iqd_b_gps 1996 01 01 00 00 2004 12 31 23 59 0.000 0.000 0.0000 XYZ

```

Tocopilla (Mw7.7, 2007) coseismic and rapid afterslip earthquake signal

Pre-Tocopilla interseismic velocity are SITB

```

rename to70_gps to7b_gps 1995 01 01 00 00 2006 12 31 23 59 0.000 0.000 0.0000 XYZ
rename to60_gps to6b_gps 1995 01 01 00 00 2006 12 31 23 59 0.000 0.000 0.0000 XYZ

```

```

rename to50_gps to5b_gps 1995 01 01 00 00 2006 12 31 23 59 0.000 0.000 0.0000 XYZ
rename to20_gps to2b_gps 1995 01 01 00 00 2006 12 31 23 59 0.000 0.000 0.0000 XYZ
rename to10_gps to1b_gps 1995 01 01 00 00 2006 12 31 23 59 0.000 0.000 0.0000 XYZ
rename pmej_gps pmjb_gps 1995 01 01 00 00 2006 12 31 23 59 0.000 0.000 0.0000 XYZ
rename cha0_gps chab_gps 1995 01 01 00 00 2006 12 31 23 59 0.000 0.000 0.0000 XYZ
rename jlp0_gps jlpb_gps 1995 01 01 00 00 2006 12 31 23 59 0.000 0.000 0.0000 XYZ
rename baq0_gps baqb_gps 1995 01 01 00 00 2000 01 01 23 59 0.000 0.000 0.0000 XYZ
rename baq0_gps baqb_gps 2005 01 01 00 00 2006 12 31 23 59 0.000 0.000 0.0000 XYZ
rename antif_gps antib_gps 1995 01 01 00 00 2006 12 31 23 59 0.000 0.000 0.0000 XYZ
rename ban0_gps banb_gps 1995 01 01 00 00 2006 12 31 23 59 0.000 0.000 0.0000 XYZ
rename mabl_gps mabb_gps 1995 01 01 00 00 2006 12 31 23 59 0.000 0.000 0.0000 XYZ
rename gua0_gps guab_gps 1995 01 01 00 00 2006 12 31 23 59 0.000 0.000 0.0000 XYZ
rename to60_gps to6x_gps 2007 01 01 00 00 2008 09 31 23 59 0.000 0.000 0.0000 XYZ
rename to70_gps to7x_gps 2007 01 01 00 00 2008 09 31 23 59 0.000 0.000 0.0000 XYZ
rename baq0_gps baqx_gps 2007 01 01 00 00 2008 09 31 23 59 0.000 0.000 0.0000 XYZ

```

Post-Tocopilla interseismic velocity are SITA

```

rename to70_gps to7a_gps 2008 10 01 00 00 2009 01 01 00 00 0.000 0.000 0.0000 XYZ
rename to60_gps to6a_gps 2008 10 01 00 00 2009 01 01 00 00 0.000 0.000 0.0000 XYZ
rename to50_gps to5a_gps 2008 01 01 00 00 2009 01 01 00 00 0.000 0.000 0.0000 XYZ
rename to30_gps to3a_gps 2008 01 01 00 00 2010 12 31 23 59 0.000 0.000 0.0000 XYZ
rename to20_gps to2a_gps 2008 01 01 00 00 2009 01 01 00 00 0.000 0.000 0.0000 XYZ
rename to10_gps to1a_gps 2008 01 01 00 00 2009 01 01 00 00 0.000 0.000 0.0000 XYZ
rename baq0_gps baqa_gps 2008 10 01 00 00 2009 01 01 00 00 0.000 0.000 0.0000 XYZ
rename cha0_gps chaa_gps 2008 01 01 00 00 2009 01 01 00 00 0.000 0.000 0.0000 XYZ
rename jlp0_gps jlpa_gps 2008 01 01 00 00 2009 01 01 00 00 0.000 0.000 0.0000 XYZ
rename ban0_gps bana_gps 2008 10 01 00 00 2009 01 01 00 00 0.000 0.000 0.0000 XYZ
rename urib_gps uria_gps 2008 10 01 00 00 2009 01 01 00 00 0.000 0.000 0.0000 XYZ
rename an00_gps an0a_gps 2008 10 01 00 00 2009 01 01 00 00 0.000 0.000 0.0000 XYZ
rename antif_gps anta_gps 2008 01 01 00 00 2009 01 01 00 00 0.000 0.000 0.0000 XYZ
rename to34_gps to3a_gps 2011 01 01 00 00 2011 12 31 23 59 0.000 0.000 0.0000 XYZ
rename to35_gps to3a_gps 2012 01 01 00 00 2012 12 31 23 59 0.000 0.000 0.0000 XYZ
rename to30_gps to3x_gps 2011 01 01 00 00 2011 12 31 23 59 0.000 0.000 0.0000 XYZ
rename to30_gps to3x_gps 2007 01 01 00 00 2007 12 31 23 59 0.000 0.000 0.0000 XYZ

```

Permanent stations installed during post-seismic period : 2007 measurements are not interseismic.

```

rename jrjn_gps jrjx_gps 2007 01 01 00 00 2007 12 31 23 59 0.000 0.000 0.0000 XYZ
rename pmej_gps pmjx_gps 2007 01 01 00 00 2007 12 31 23 59 0.000 0.000 0.0000 XYZ
rename srgd_gps srgx_gps 2007 01 01 00 00 2007 12 31 23 59 0.000 0.000 0.0000 XYZ
rename cbaa_gps cbax_gps 2007 01 01 00 00 2007 12 31 23 59 0.000 0.000 0.0000 XYZ

```

Ties related renames

MEJ0 campaign point renames.

MEJ0 interseismic velocity is for 2008 to 2012, MEJB is pre-Tocopilla interseismic velocity

MEJ1 2008.2 measurement is an outlier : measure of a corner of the pillar instead of the real point.

```

rename mej0_gps mejb_gps 1995 01 01 00 00 2006 12 31 23 59 0.000 0.000 0.0000 XYZ
rename mej0_gps mejx_gps 2007 01 01 00 00 2007 12 31 23 59 0.000 0.000 0.0000 XYZ
rename mej0_gps mej1_gps 2008 10 01 00 00 2008 12 31 23 59 0.000 0.000 0.0000 XYZ

```

```

## IQD0 complicated history : IQD0 measured alternatively with IQD5 in 1996.
## Then IQD0 measured in 2000 and 2005. IQD5 measured in 2002.
## Tie calculated from globk output chosen here but coherent with the JCR log sheet (1996)
rename iqd5_gps iqd0_gps 2005 00 00 00 00 2099 01 01 00 00 2.4391 0.0331 -0.0049 NEU

## Old measurements from GFZ ignored for the processing
rename guat_gps guax_gps 1995 01 01 00 00 2006 12 31 23 59 0.000 0.000 0.0000 XYZ
rename ofla_gps oflx_gps 1996 01 01 00 00 2004 12 31 23 59 0.000 0.000 0.0000 XYZ
rename live_gps livx_gps 1996 01 01 00 00 2005 12 31 23 59 0.000 0.000 0.0000 XYZ
rename cama_gps camx_gps 1995 01 01 00 00 2006 12 31 23 59 0.000 0.000 0.0000 XYZ
rename minf_gps minx_gps 1990 01 01 00 00 2006 12 31 23 59 0.000 0.000 0.0000 XYZ
rename co60_gps co6x_gps 1990 01 01 00 00 2007 12 31 23 59 0.000 0.000 0.0000 XYZ
rename co40_gps co4x_gps 1996 01 01 00 00 2004 12 31 23 59 0.000 0.000 0.0000 XYZ
rename co50_gps co5x_gps 1996 01 01 00 00 2007 12 31 23 59 0.000 0.000 0.0000 XYZ
rename pati_gps patx_gps 1996 01 01 00 00 2007 12 31 23 59 0.000 0.000 0.0000 XYZ
rename come_gps comx_gps 1995 01 01 00 00 2007 12 31 23 59 0.000 0.000 0.0000 XYZ

## Rename due to wrong using of "BAQU" or "BAQ0" by GFZ and LiA teams
rename baqu_gps baq0_gps 1996 01 01 00 00 2002 01 01 00 00 0.000 0.000 0.0000 XYZ
rename baqu_gps baq0_gps 2003 01 01 00 00 2006 12 31 23 59 0.000 0.000 0.0000 XYZ

## DO54 measured in 2000. Tie to DO50 from JC Ruegg log sheet.
rename do54_gps do50_gps 1999 01 01 00 00 2099 01 01 00 00 -33.1662 -5.0847 -0.4416 NEU

## DO10 complicated history : measured in 2007, damaged in 2008
## measure of the hole center in 2010 and 2011
## DO12 measured in 2008.2 and 2011. Tie from globk output
rename do10_gps do10_gps 2008 01 01 00 00 2008 12 31 23 59 -0.9603 8.6740 2.0028 NEU

## DO30 measurement in 2000 does not fit with recent measurements. No previously calculated tie.
rename do30_gps do3x_gps 1996 01 01 00 00 2001 12 31 23 59 0.000 0.000 0.0000 XYZ

## CO33 to CO30 tie calculated from globk output but coherent with log sheet.
rename co33_gps co30_gps 1999 01 01 00 00 2099 01 01 00 00 -0.0240 -2.6101 -0.4342 NEU

## AR19 measured in 2000 and 2010 and in 1996. Tie from globk output.
rename ar19_gps ar10_gps 1099 00 00 00 00 2099 01 01 00 00 -5.4064 -4.7252 2.1179 NEU
rename ar10_gps ar10_gps 2010 01 01 00 00 2099 01 01 00 00 -5.4064 -4.7252 2.1179 NEU

## TO34 measured in 1996 but no clear tie and no good calculation from globk output.
## Remove of pre-toco measurements
rename to30_gps to34_gps 1990 01 01 00 00 2005 01 01 23 59 0.0261 -0.0481 0.0698 NEU

## TO40 complicated history. TO40 is the Lia point and TO4g is the GFZ point.
## TO40 was measured in 2007.2, 2008, 2010 and 2011. TO4G in 2008, 2008.2 and 2012
## post- interseismic velocity on TO4 is compiled only using 2010 and 2011
## pre- interseismic velocity is compiled using 1996 and 2000 measurements.
rename to40_gps to42_gps 2008 10 01 00 00 2008 12 31 23 59 2.1777 -2.7326 -0.015 NEU
rename to40_gps to4b_gps 1995 01 01 00 00 2005 12 31 23 59 0.000 0.000 0.0000 XYZ
rename to4g_gps to4b_gps 1995 01 01 00 00 2005 12 31 23 59 0.000 0.000 0.0000 XYZ
rename to40_gps to4x_gps 2007 01 01 00 00 2008 09 31 23 59 0.000 0.000 0.0000 XYZ
rename to4g_gps to40_gps 2012 01 01 00 00 2012 12 31 23 59 2.1731 -2.7335 -0.0313 NEU

```



```
## gdnd05_2 strange measurements excluded
rename ispa_gps ispx_gps 2005 09 01 00 00 2006 12 31 23 59 0.000 0.000 0.0000 XYZ
rename fort_gps forx_gps 2005 09 01 00 00 2006 12 31 23 59 0.000 0.000 0.0000 XYZ
rename ucnf_gps ucnx_gps 2005 01 01 00 00 2006 12 31 23 59 0.000 0.000 0.0000 XYZ
```

Norte Chico earthquake related renames

```
## Caldera-Copiapo 2006 swarm effect
## COPO cGPS station is splitted in pre- (COPX) and post- (COPO) swarm interseismic velocity

rename copo_gps copx_gps 1990 01 01 00 00 2007 12 31 23 59 0.000 0.000 0.0000 XYZ
rename bing_gps binb_gps 1990 01 01 00 00 2006 12 31 23 59 0.000 0.000 0.0000 XYZ
```

Maule earthquake renames#

```
## Coseismic motion of cGPS stations from Vigny et al. 2011 estimates.
rename cmba_gps cmba_gps 2010 01 01 00 00 2009 01 01 00 00 -0.007 0.007 0.001 NEU
rename cnba_gps cnba_gps 2010 01 01 00 00 2009 01 01 00 00 -0.009 0.002 0.003 NEU
rename pedr_gps pedr_XCL 2010 01 01 00 00 2009 01 01 00 00 -0.001 0.003 0.003 NEU
rename emat_gps emat_gps 2010 01 01 00 00 2009 01 01 00 00 -0.014 0.002 0.009 NEU
rename junt_gps junt_gps 2010 01 01 00 00 2009 01 01 00 00 -0.004 0.001 0.002 NEU
rename ovll_gps ovll_gps 2010 01 01 00 00 2009 01 01 00 00 -0.01 -0.004 0.004 NEU
rename pfrj_gps pfrj_gps 2010 01 01 00 00 2009 01 01 00 00 -0.012 0.001 0.007 NEU
rename tolo_gps tolo_gps 2010 01 01 00 00 2009 01 01 00 00 -0.009 0.004 0.000 NEU
rename bton_gps bton_gps 2010 01 01 00 00 2009 01 01 00 00 -0.01 -0.003 0.002 NEU
rename lsch_gps lsch_gps 2010 01 01 00 00 2009 01 01 00 00 -0.008 0.000 0.003 NEU
rename sill_gps sill_gps 2010 01 01 00 00 2009 01 01 00 00 -0.006 -0.001 0.003 NEU
rename crzl_gps crzl_gps 2010 01 01 00 00 2009 01 01 00 00 -0.008 -0.001 -0.007 NEU
rename vall_gps vall_gps 2010 01 01 00 00 2009 01 01 00 00 -0.004 0.001 -0.005 NEU
rename copo_gps copo_gps 2010 01 01 00 00 2009 01 01 00 00 -0.003 0.002 0.000 NEU
rename cfag_gps cfag_gps 2010 01 01 00 00 2009 01 01 00 00 0.017 0.035 -0.011 NEU
```

```
## Coseismic motions for sGPS points north of LSCH that needed corrections to get interseismic velocity
```

```
## Values are from triangulation interpolation using GMT software, based on Vigny et al. 2011 values for cGPS local stations
```

```
rename potr_gps potr_gps 2010 01 01 00 00 2009 01 01 00 00 -0.00095 0.00152 -0.0002 NEU
rename lapu_gps lapu_gps 2010 01 01 00 00 2009 01 01 00 00 -0.00196 0.00188 -0.0005 NEU
rename dgal_gps dgal_gps 2010 01 01 00 00 2009 01 01 00 00 -0.00166 0.00151 0.0003 NEU
rename cop5_gps cop5_gps 2010 01 01 00 00 2009 01 01 00 00 -0.00250 0.00195 -0.0002 NEU
rename tot5_gps tot5_gps 2010 01 01 00 00 2009 01 01 00 00 -0.00325 0.00174 0.0000 NEU
rename sald_gps sald_gps 2010 01 01 00 00 2009 01 01 00 00 -0.00212 0.00151 0.0007 NEU
rename chr1_gps chr1_gps 2010 01 01 00 00 2009 01 01 00 00 -0.00264 0.00086 0.0000 NEU
rename tot4_gps tot4_gps 2010 01 01 00 00 2009 01 01 00 00 -0.00390 0.00132 -0.0024 NEU
rename pnaz_gps pnaz_gps 2010 01 01 00 00 2009 01 01 00 00 -0.00284 0.00028 -0.0005 NEU
rename char_gps char_gps 2010 01 01 00 00 2009 01 01 00 00 -0.00306 0.00039 -0.0007 NEU
rename cop3_gps cop3_gps 2010 01 01 00 00 2009 01 01 00 00 -0.00411 0.00072 -0.0018 NEU
rename tinc_gps tinc_gps 2010 01 01 00 00 2009 01 01 00 00 -0.00339 0.00037 -0.0011 NEU
rename pltt_gps pltt_gps 2010 01 01 00 00 2009 01 01 00 00 -0.00395 0.00014 -0.0018 NEU
rename cop2_gps cop2_gps 2010 01 01 00 00 2009 01 01 00 00 -0.00453 0.00025 -0.0024 NEU
rename bing_gps bing_gps 2010 01 01 00 00 2009 01 01 00 00 -0.00442 0.0000 -0.0024 NEU
```

```

rename barq_gps barq_gps 2010 01 01 00 00 2099 01 01 00 00 -0.00477 0.00019 -0.0027 NEU
rename tot3_gps tot3_gps 2010 01 01 00 00 2099 01 01 00 00 -0.00525 0.00025 -0.0033 NEU
rename pvej_gps pvej_gps 2010 01 01 00 00 2099 01 01 00 00 -0.00482 -0.00011 -0.0029 NEU
rename tot2_gps tot2_gps 2010 01 01 00 00 2099 01 01 00 00 -0.00553 -0.00010 -0.0037 NEU
rename toto_gps toto_gps 2010 01 01 00 00 2099 01 01 00 00 -0.00582 -0.00047 -0.0042 NEU
rename czba_gps czba_gps 2010 01 01 00 00 2099 01 01 00 00 -0.00614 -0.00048 -0.0046 NEU
rename cang_gps cang_gps 2010 01 01 00 00 2099 01 01 00 00 -0.00644 -0.00051 -0.0050 NEU
rename abol_gps abol_gps 2010 01 01 00 00 2099 01 01 00 00 -0.00644 -0.00039 -0.0047 NEU
rename ator_gps ator_gps 2010 01 01 00 00 2099 01 01 00 00 -0.00717 0.00000 0.0026 NEU
rename dome_gps dome_gps 2010 01 01 00 00 2099 01 01 00 00 -0.00570 -0.00025 -0.0022 NEU
rename etra_gps etra_gps 2010 01 01 00 00 2099 01 01 00 00 -0.00367 0.00132 0.0000 NEU
rename hgrt_gps hgrt_gps 2010 01 01 00 00 2099 01 01 00 00 -0.00759 -0.00080 -0.0064 NEU
rename horn_gps horn_gps 2010 01 01 00 00 2099 01 01 00 00 -0.00803 -0.00035 0.0000 NEU
rename inca_gps inca_gps 2010 01 01 00 00 2099 01 01 00 00 -0.00701 -0.00093 -0.0013 NEU
rename 3crx_gps 3crx_gps 2010 01 01 00 00 2099 01 01 00 00 -0.00667 -0.00079 -0.0016 NEU
rename pply_gps pply_gps 2010 01 01 00 00 2099 01 01 00 00 -0.00388 0.00111 -0.0007 NEU
rename sflx_gps sflx_gps 2010 01 01 00 00 2099 01 01 00 00 -0.00387 0.00112 -0.0018 NEU
rename tofo_gps tofo_gps 2010 01 01 00 00 2099 01 01 00 00 -0.00767 -0.00057 -0.001 NEU
rename agrd_gps agrd_gps 2010 01 01 00 00 2099 01 01 00 00 -0.00717 -0.00058 0.0012 NEU
rename frei_gps frei_gps 2010 01 01 00 00 2099 01 01 00 00 -0.00611 0.0000 -0.0048 NEU
rename huas_gps huas_gps 2010 01 01 00 00 2099 01 01 00 00 -0.00684 -0.00066 -0.0055 NEU
rename lcho_gps lcho_gps 2010 01 01 00 00 2099 01 01 00 00 -0.00765 -0.00082 -0.0035 NEU
rename frtn_gps frtn_gps 2010 01 01 00 00 2099 01 01 00 00 -0.00364 0.00135 -0.0013 NEU
rename hua0_gps hua0_gps 2010 01 01 00 00 2099 01 01 00 00 -0.00684 -0.00066 -0.0055 NEU
rename pcho_gps pcho_gps 2010 01 01 00 00 2099 01 01 00 00 -0.00841 -0.00079 -0.0055 NEU
rename bsar_gps bsar_gps 2010 01 01 00 00 2099 01 01 00 00 -0.00747 -0.00086 -0.0063 NEU
rename lamb_gps lamb_XCL 2009 01 01 00 00 2099 12 31 00 00 -0.00778 0.00019 0.0027 NEU
rename pald_gps pald_XCL 2009 01 01 00 00 2099 12 31 00 00 -0.00778 0.00019 0.0027 NEU

```

To avoid post-seismic motion that affected the southernmost part of the Ovalle network, we just rename all campaign points south of LSCH.

```

rename agua_gps agua_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.00093 0.00825 0.00260 NEU
rename anda_gps anda_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.00944 0.000691 0.00122 NEU
rename bsjl_gps bsjl_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.01089 -0.00239 0.00518 NEU
rename cent_gps cent_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.00942 0.002028 0.00361 NEU
rename chan_gps chan_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.00727 0.001972 0.00251 NEU
rename chap_gps chap_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.00622 0.001551 0.00155 NEU
rename chin_gps chin_XCL 2010 01 01 00 00 2099 01 01 00 00 0.01003 0.033923 0.00448 NEU
rename chip_gps chip_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.00922 0.004235 0.00349 NEU
rename cmor_gps cmor_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.00863 0.003951 0.00013 NEU
rename cnfl_gps cnfl_XCL 2010 01 01 00 00 2099 01 01 00 00 0.01566 0.042352 0.00625 NEU
rename cogo_gps cogo_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.00544 0.008179 0.00134 NEU
rename ealm_gps ealm_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.00795 0.003773 0.00304 NEU
rename eman_gps eman_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.00928 0.000000 0.00146 NEU
rename espi_gps espi_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.01104 0.002997 0.00553 NEU
rename fund_gps fund_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.00713 0.002608 0.00132 NEU
rename hera_gps hera_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.00888 -0.00141 0.00173 NEU
rename lcan_gps lcan_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.01169 -0.00111 0.00620 NEU
rename lisl_gps lisl_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.00687 0.004962 0.00164 NEU
rename lmol_gps lmol_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.00059 0.004268 0.00213 NEU
rename lper_gps lper_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.00977 -0.00181 0.00228 NEU
rename mpa2_gps mpa2_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.00643 -0.00117 0.00358 NEU
rename nipa_gps nipa_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.01060 -0.00201 0.00397 NEU

```

```

rename ovej_gps ovej_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.00646 0.007080 0.00210 NEU
rename pach_gps pach_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.01141 0.000532 0.00506 NEU
rename pidn_gps pidn_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.00967 -0.00072 0.00377 NEU
rename pobr_gps pobr_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.01119 -0.00087 0.00551 NEU
rename ptom_gps ptom_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.00579 0.016823 0.01254 NEU
rename sger_gps sger_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.00807 0.001888 0.00141 NEU
rename sped_gps sped_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.01146 0.001278 0.00598 NEU
rename svir_gps svir_XCL 2010 01 01 00 00 2099 01 01 00 00 0.03098 0.064748 0.00712 NEU
rename tahu_gps tahu_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.00909 -0.00077 0.00254 NEU
rename tong_gps tong_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.01010 -0.00236 0.00199 NEU
rename vari_gps vari_XCL 2010 01 01 00 00 2099 01 01 00 00 -0.00260 0.002756 0.00263 NEU

```

```

## Maule effect at permanent stations that may moved : rename stations whitout applying co-seismic
jump

```

```

## Some are excluded during globk run and thus do not need rename

```

```

rename areq_gps areq_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename lpgs_gps lpgs_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename sant_gps sant_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename alum_gps alum_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename azul_gps azul_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename cata_gps cata_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename ma01_gps ma01_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename mzae_gps mzae_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename mzas_gps mzas_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename rwsn_gps rwsn_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename sl01_gps sl01_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename srlp_gps srlp_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename tero_gps tero_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename ucor_gps ucor_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename unro_gps unro_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename vbca_gps vbca_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename poal_gps poal_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename lvil_gps lvil_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename konz_gps konz_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename antc_gps antc_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename esqu_gps esqu_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename lhcl_gps lhcl_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename mzac_gps mzac_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename unsj_gps unsj_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename tucu_gps tucu_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename cons_gps cons_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename dgfl_gps dgfl_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename maul_gps maul_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename port_gps port_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename rcsd_gps rcsd_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename robl_gps robl_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename sjav_gps sjav_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename valn_gps valn_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename vnev_gps vnev_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ

```

```

## New points from nchico2012 are deleted from global calculation

```

```

rename aver_gps aver_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename cal2_gps cal2_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ

```

```
rename cfn_gps cfn_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename cifu_gps cifu_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename lher_gps lher_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename maru_gps maru_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename moro_gps moro_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename talt_gps talt_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename tot0_gps tot0_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
rename tot1_gps tot1_XCL 2010 02 27 00 00 2099 12 31 00 00 0.000 0.000 0.0000 XYZ
```

Chapitre 2

Traitement GAMIT et séries temporelles du réseau Grand Nord

On présente dans ce chapitre le détail du traitement des campagnes conduites depuis 1996 sur le réseau du Grand Nord Chili (figure 2.1 et table 2.1). Le planning des mesures est détaillé pour chaque campagne et le station.info utilisé pour le traitement est reproduit. Les résultats des tests de répétabilité sont également présentés, ainsi que les éventuels problèmes rencontrés lors du traitement et les choix qui ont été faits pour les résoudre. Nous présentons également le traitement de quelques campagnes menées par l'équipe du GFZ mais qui n'ont pas été incluses dans les solutions (table 2.2).

Les séries temporelles associées à chaque marqueur sont également présentées à la fin du chapitre. On peut y lire la vitesse estimée à partir des positions calculées pour chaque campagne sans correction ou élimination des données anormales (en noir), et la vitesse estimée après correction par le fichier ".eq" (chapitre 1) qui sera celle retenue dans le jeu de vitesses final.

Campagnes	1996	1997	2000	2002	2005	2007	2008	2008-2	2010	2011	2012
marqueurs	51	15	36	8	17	21	21	20	80	33	71
région (°S)	18-24	18-21	18-24	20-21	20-21	18-24	21-24	21-24	21-24	18-24	21-24

TAB. 2.1: Liste des campagnes conduites par les équipes du LiA Montessus de Ballore qui sont présentées dans cette annexe.

Campagnes	1996g	1999g	2002g	2005g
marqueurs	15	9	12	18
région (°S)	18-24	24-26	18-24	18-26

TAB. 2.2: Liste des campagnes conduites par les équipes du GFZ qui sont présentées dans cette annexe.

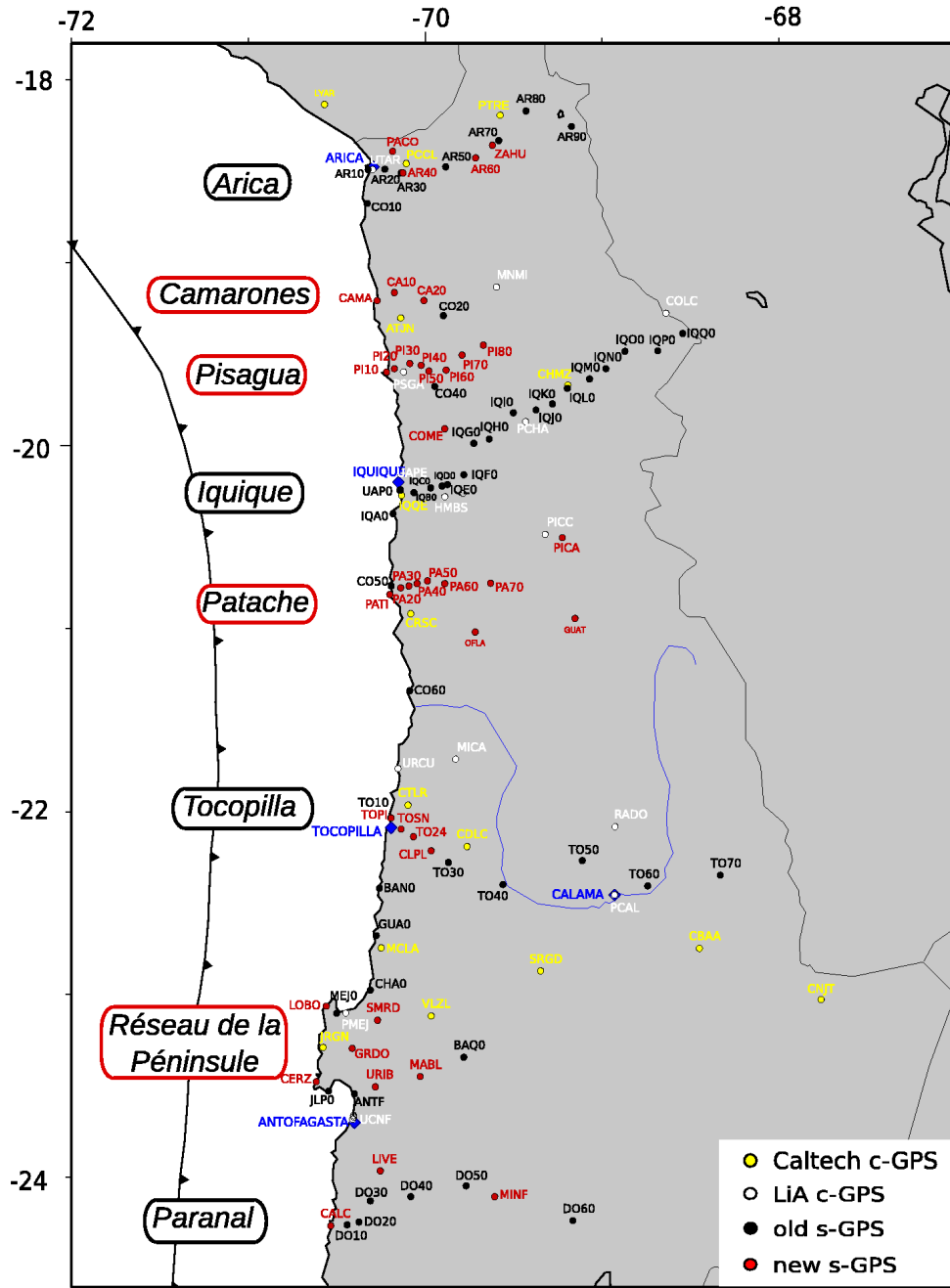
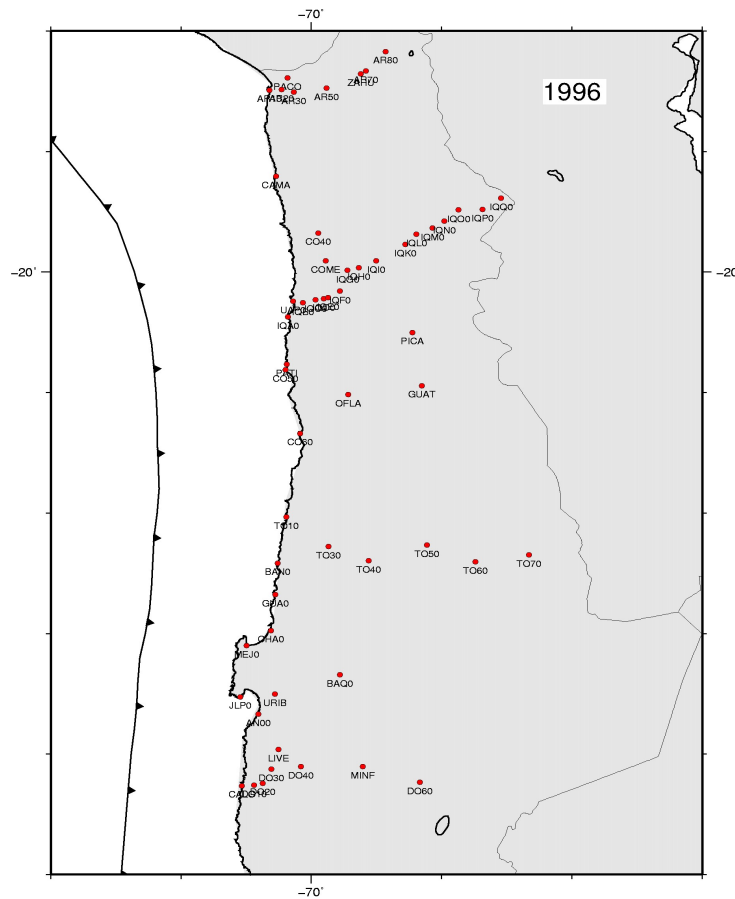


FIG. 2.1: Etat actuel du réseau c- et s-GPS dans le Grand Nord. Le nom des anciens et des nouveaux profils est indiqué dans des rectangles respectivement noirs et rouges.

GPS campaign – 1996 – LiA

Map

DOY 321-334



Julian days : 16 nov. → 29 nov.

Season : Summer

GPS weeks : 879 → 881

→ 51 measurement points

→ 12 receivers

→ short sessions ~12h except for few points

Rinex source : IPGP archives x-ok ; O-deleted

	321	322	323	324	325	326	327	328	329	330	331	332	333	334
an00	-	X	X	X	X	X	X	X	X	X	X	X	-	X
ar10	-	-	-	-	-	-	X	X	X	-	-	-	-	-
ar20	-	-	-	-	-	X	-	X	-	-	-	-	-	-
ar30	-	-	-	-	X	-	X	-	-	-	X	-	-	-
ar50	-	-	-	O	X	X	X	X	X	X	-	-	-	-
ar70	-	-	-	-	-	-	-	X	-	X	-	-	-	-
ar80	-	-	-	-	-	-	-	-	X	X	-	-	-	-
ar90	-	-	-	-	-	-	-	-	X	X	X	-	-	-
ban0	-	-	-	-	-	-	-	-	-	-	-	X	-	-
baq0	-	-	X	X	-	-	-	-	-	-	X	X	X	-
cha0	-	-	-	-	X	X	X	-	-	-	-	-	X	X
co10	-	-	-	-	-	-	X	-	-	-	X	-	-	-
co30	-	-	X	-	-	X	-	-	-	-	-	-	-	-
co40	-	-	X	-	-	-	-	-	-	-	-	X	-	-
co50	X	-	-	-	-	-	X	-	-	-	-	-	-	-
co60	-	-	-	-	-	-	X	-	-	-	-	-	-	-
do10	-	-	-	-	-	-	-	-	-	-	-	X	-	-
do20	-	-	-	X	X	-	-	-	-	-	-	-	-	-
do30	-	-	-	-	-	-	-	-	-	-	X	-	-	-
do40	-	X	X	X	X	-	-	-	-	-	-	-	-	-
do60	-	X	O	X	-	-	-	-	-	-	-	-	-	-
gua0	-	-	-	-	-	-	-	-	-	-	-	-	X	X
iq00	-	-	-	-	-	-	-	-	-	X	X	-	-	-
iqa0	X	X	-	-	-	-	-	-	-	-	-	-	X	-
iqb0	X	-	-	-	-	-	-	-	-	-	-	-	-	-
iqc0	-	X	-	-	-	-	-	-	-	-	-	-	-	-
iqd0	X	X	X	X	-	-	-	-	-	-	-	X	X	-
iqe0	-	X	-	-	-	-	-	-	-	-	-	-	-	-
iqf0	X	X	-	-	-	-	-	-	-	-	-	X	-	-
iqg0	-	X	-	-	-	-	-	-	-	-	-	-	-	-
iqh0	X	X	X	-	-	-	-	-	-	-	-	X	X	-
iqi0	-	-	-	X	-	-	-	-	-	-	-	-	X	-
iqj0	-	-	-	-	X	-	-	-	-	-	-	-	-	-
iqk0	-	-	O	-	-	-	-	-	-	-	-	-	-	-
iql0	-	-	X	X	X	O	-	-	-	-	-	-	-	-
iqm0	-	-	-	X	-	O	-	-	-	-	-	-	-	-
iqn0	-	-	-	-	X	X	-	-	-	-	-	-	-	-
iqo0	-	-	-	X	-	-	-	-	-	-	-	-	-	-
iqp0	-	-	X	X	X	X	-	-	-	-	-	-	-	-
iqq0	-	-	O	X	-	-	-	-	-	-	-	-	-	-
jlp0	-	-	-	-	O	X	X	-	-	-	-	-	X	-
mej0	-	-	-	-	-	-	-	-	-	-	-	-	X	-
poz0	X	X	O	-	-	-	-	-	-	-	-	-	-	-
to10	-	-	-	-	-	-	X	-	-	-	-	X	-	-
to20	-	-	-	-	-	-	X	X	-	-	-	-	-	-
to30	-	-	-	-	-	-	-	X	X	-	-	-	-	-
to40	-	-	-	-	-	-	-	-	-	X	X	-	-	-
to50	-	-	-	-	-	-	-	-	X	X	X	-	-	-
to60	-	-	-	-	-	-	-	X	X	X	-	-	-	-
to70	-	-	-	-	-	-	-	X	X	X	-	-	-	-
uap0	X	X	X	X	X	X	X	X	X	X	X	X	X	-

Rinex source : SIO x-ok ; O-deleted

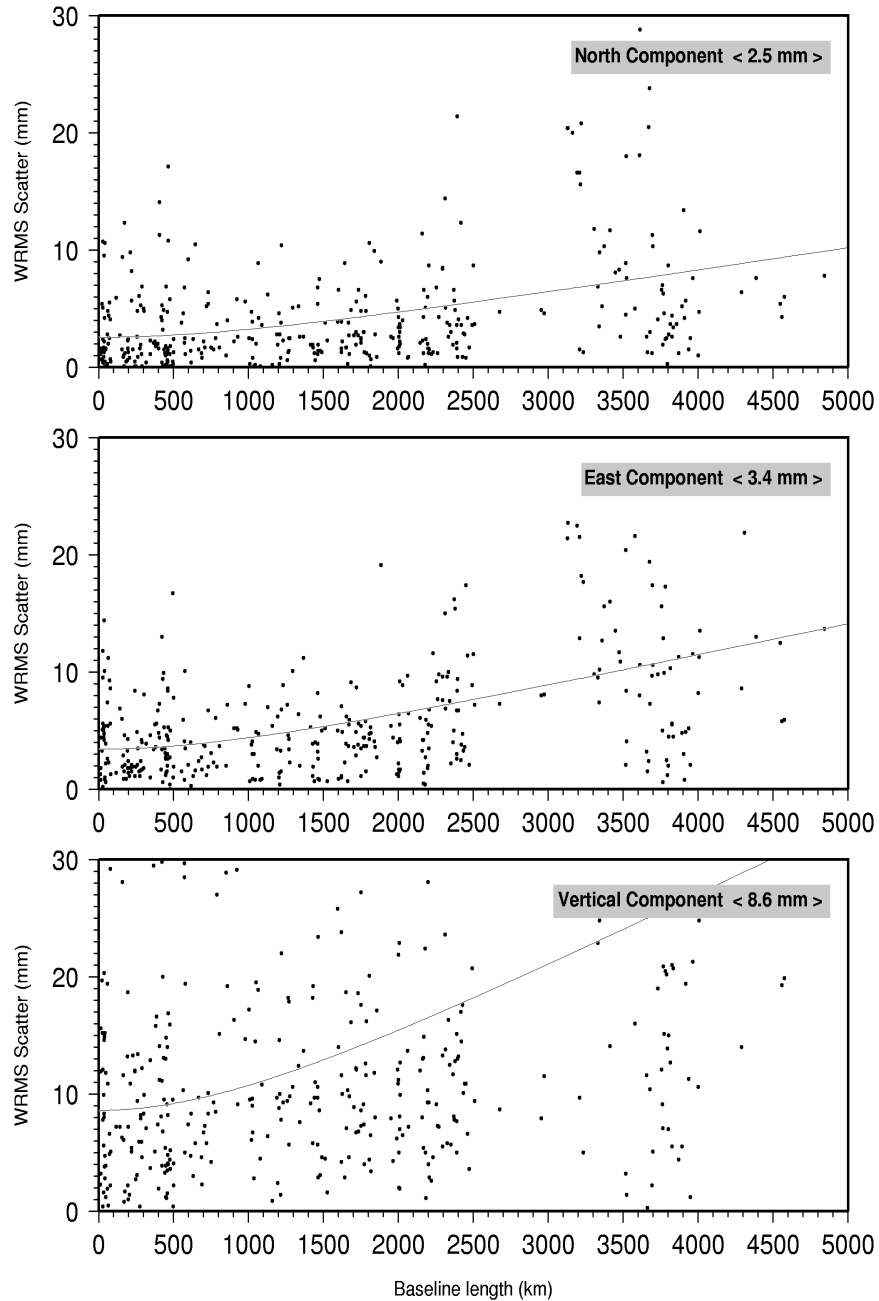
	321	322	323	324	325	326	327	328	329	330	331	332	333	334
areq	X	X	X	X	X	X	X	X	X	X	X	X	X	X
braz	-	X	-	X	X	X	X	X	X	X	X	X	X	X
fort	X	X	X	X	X	X	X	X	X	X	X	X	X	X
kour	X	X	X	X	X	X	X	X	X	X	X	X	X	X
lpqs	X	X	-	X	X	X	X	X	X	X	X	X	X	X
sant	X	X	X	X	X	X	X	X	X	X	X	X	X	X
lhcl	X	X	X	X	X	X	X	X	X	X	X	X	X	X
cfag	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Issues / Notes

- IQD0 is IQD5 with tie value -0.306 -2.4427 0.0069
- DHARP ant. Heights have been calculated
- Pb on vertical repeatabilities due to KOUR

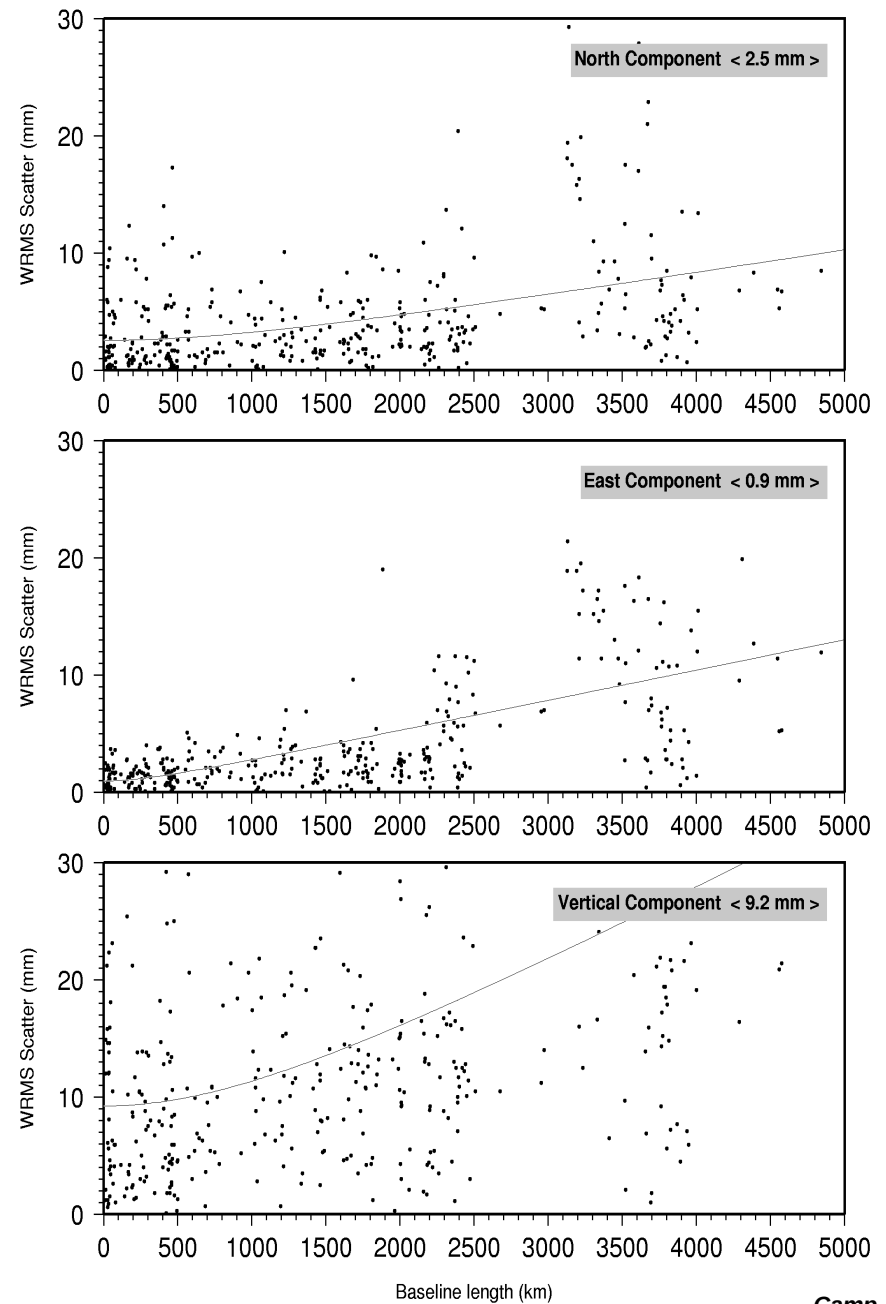
Repetabilities biases free

GDNORD 1996 – IGS orbits – biases free



Repetabilities biases fixed

GDNORD 1996 – IGS orbits – biases fixed

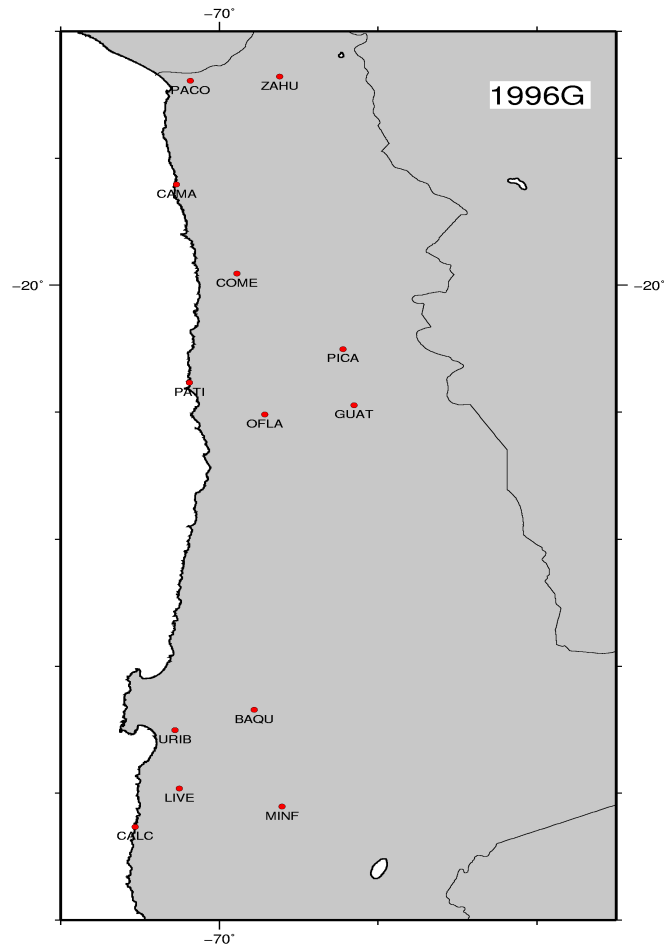


GPS campaign – 1996 – GFZ

Rinex source : ftp kg3-dmz.gfz-potsdam.de

Map

DOY 295-315



Julian days : 21 oct. → 10 nov.

GPS weeks : 876 → 879

Season : Spring

Day	areq	braz	fort	kour	lpgs	sant	lhcl	cfag	baqu	calc	live	minf	urib	bing	cama	come	guat	ofla	paco	pati	pica	pnaz	zahu
295	X	X	X	-	X	X	X	X	-	X	X	X	-	-	-	-	-	-	-	-	-	-	-
296	X	X	X	X	X	X	X	X	-	X	X	X	-	-	-	-	-	-	-	-	-	-	-
297	X	X	X	X	X	X	X	X	-	X	X	X	-	-	-	-	-	-	-	-	-	-	-
298	X	X	X	X	X	X	X	X	-	X	X	X	-	-	-	-	-	-	-	-	-	-	-
299	X	X	X	X	X	X	X	X	-	X	X	X	-	-	-	-	-	-	-	-	-	-	-
300	X	-	X	X	X	X	X	X	-	-	X	-	X	-	-	-	-	-	-	-	-	-	-
301	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-
302	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-
303	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-
304	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-
305	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-
306	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-
307	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-
308	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-
309	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-
310	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-
311	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-
312	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-
313	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-
314	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-
315	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-

Station.info**source: headers only****quality : poor**

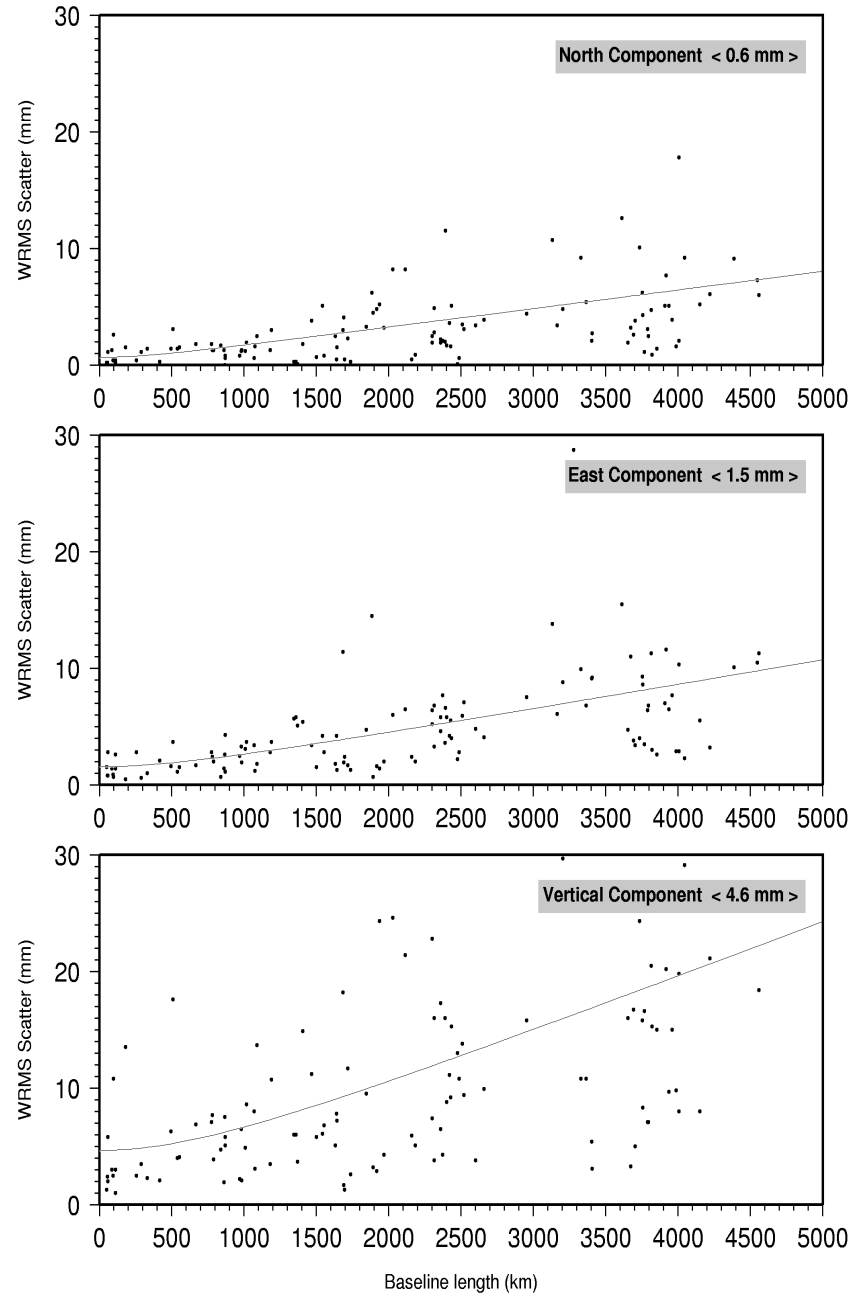
CALC Caleta cobre	1996	295	00	00	00	9999	999	00	00	00	0.046	DHARP	0.0000	0.0000	TRIMBLE	4000SSE	7.19	3.04	2051	TRM22020.00+GP	NONE	66169
LIVE Limon Verde	1996	295	00	00	00	9999	999	00	00	00	0.046	DHARP	0.0000	0.0000	TRIMBLE	4000SSE	7.19	3.04	2053	TRM22020.00+GP	NONE	----
MINF Mina Fortuna	1996	295	00	00	00	9999	999	00	00	00	0.046	DHARP	0.0000	0.0000	TRIMBLE	4000SSE	7.19	3.04	1987	TRM22020.00+GP	NONE	66332
BAQU Baquedano	1996	295	00	00	00	9999	999	00	00	00	0.046	DHARP	0.0000	0.0000	TRIMBLE	4000SSE	7.19	3.04	1997	TRM22020.00+GP	NONE	6326
URIB Uribe	1996	295	00	00	00	9999	999	00	00	00	0.046	DHARP	0.0000	0.0000	TRIMBLE	4000SSE	7.19	3.04	2048	TRM22020.00+GP	NONE	6306
CAMA Camarones	1996	295	00	00	00	9999	999	00	00	00	0.046	DHARP	0.0000	0.0000	TRIMBLE	4000SSE	7.19	3.04	2053	TRM22020.00+GP	NONE	66425
COME	1996	295	00	00	00	9999	999	00	00	00	0.046	DHARP	0.0000	0.0000	TRIMBLE	4000SSE	7.19	3.04	1987	TRM22020.00+GP	NONE	66332
GUAT	1996	295	00	00	00	9999	999	00	00	00	0.046	DHARP	0.0000	0.0000	TRIMBLE	4000SSE	7.19	3.04	2048	TRM22020.00+GP	NONE	6306
PACO	1996	295	00	00	00	9999	999	00	00	00	0.046	DHARP	0.0000	0.0000	TRIMBLE	4000SSE	7.19	3.04	2048	TRM22020.00+GP	NONE	6306
PATI	1996	295	00	00	00	9999	999	00	00	00	0.046	DHARP	0.0000	0.0000	TRIMBLE	4000SSE	7.19	3.04	2051	TRM22020.00+GP	NONE	66169
OFLA	1996	295	00	00	00	9999	999	00	00	00	0.046	DHARP	0.0000	0.0000	TRIMBLE	4000SSE	7.19	3.04	2053	TRM22020.00+GP	NONE	66425
PICA Pica	1996	295	00	00	00	9999	999	00	00	00	0.046	DHARP	0.0000	0.0000	TRIMBLE	4000SSE	7.19	3.04	1997	TRM22020.00+GP	NONE	6326
ZAHU	1996	295	00	00	00	9999	999	00	00	00	0.046	DHARP	0.0000	0.0000	TRIMBLE	4000SSE	7.19	3.04	1987	TRM22020.00+GP	NONE	66332
BING Bahia Inglesa	1996	295	00	00	00	9999	999	00	00	00	0.046	DHARP	0.0000	0.0000	TRIMBLE	4000SSE	7.19	3.04	1987	TRM22020.00+GP	NONE	66332
PNAZ Pan de Azucar	1996	295	00	00	00	9999	999	00	00	00	0.046	DHARP	0.0000	0.0000	TRIMBLE	4000SSE	7.19	3.04	1987	TRM22020.00+GP	NONE	66332

Issues / Notes

Note : postseismic fielwork following Antofagasta Mw 8.1 1995 event.

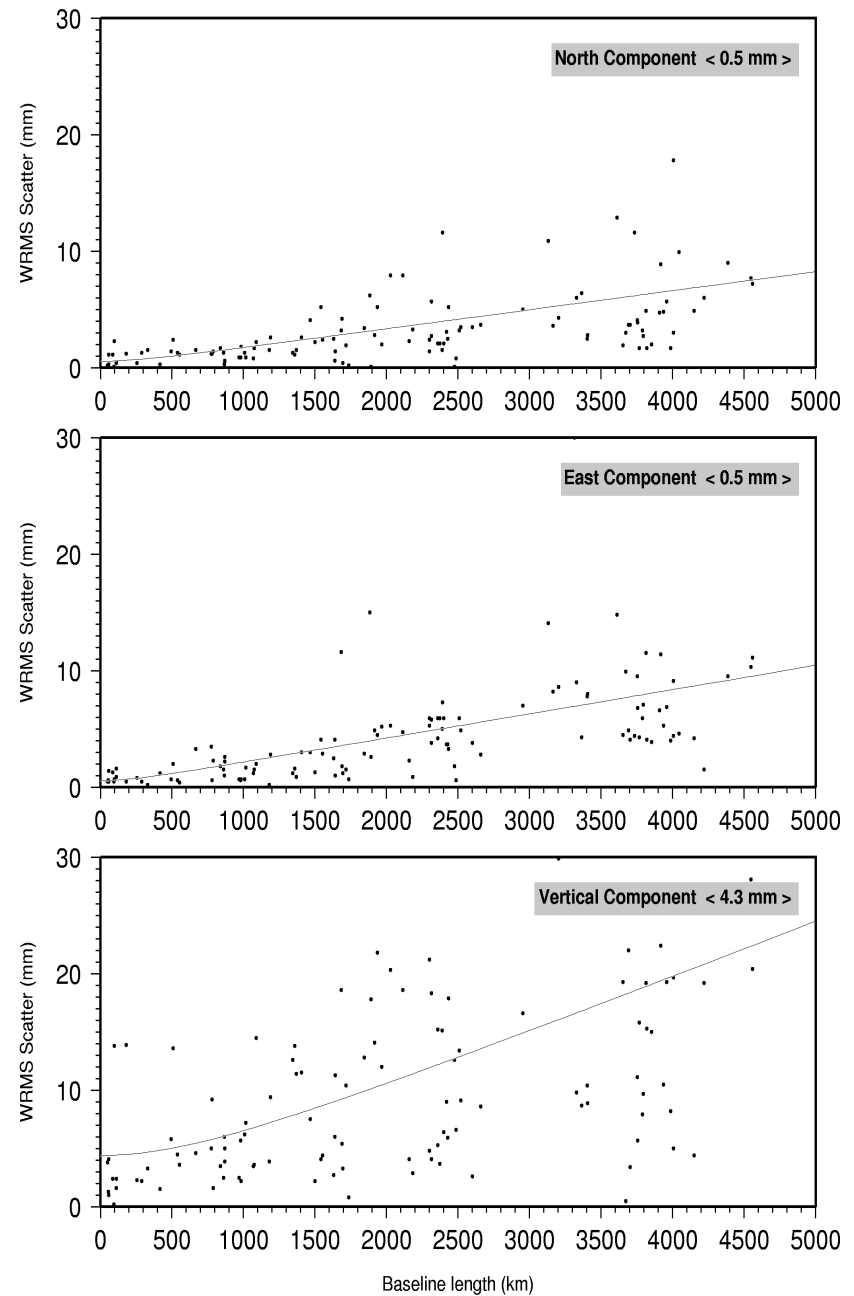
Repetabilities biases free

GDNORD 1996 – IGS orbits – biases free



Repetabilities biases fixed

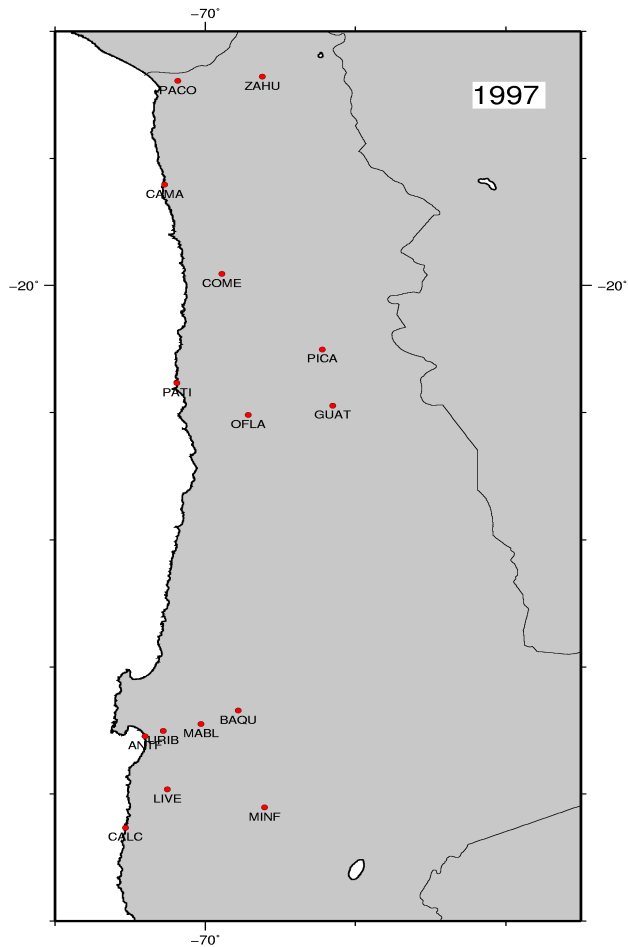
GDNORD 1996 – IGS orbits – biases fixed



GPS campaign – 1997 – GFZ

Map

DOY 327 - 347



Julian days : 23 nov. → 03 dec.

Season : Spring-Summer

GPS weeks : 933 → 934

15 measurement points

Rinex source : ftp kg3-dmz.gfz-potsdam.de

	327	328	329	330	331	332	333	334	335	336	337
live	-	-	-	X	X	X	X	-	-	-	-
calc	-	-	X	X	-	-	-	-	-	-	-
minf	X	X	X	X	-	-	-	-	-	-	-
baqu	-	-	-	-	-	-	-	o	X	X	X
mabl	-	-	-	X	X	X	X	-	-	-	-
urib	-	-	-	o	X	X	X	o	-	-	-
antf	-	-	-	-	X	X	X	o	-	-	-

	341	342	343	344	345	346	347
cama	-	-	-	X	X	X	X
come	-	X	X	X	-	-	-
guat	-	-	-	-	X	X	X
ofla	-	X	X	X	-	-	-
paco	-	X	X	X	-	-	-
pati	-	-	-	-	X	X	X
pica	-	X	X	X	-	-	-
zahu	-	X	X	X	-	-	-

Rinex source : SIO

	327	328	329	330	331	332	333	334	335	336	337
areq	X	X	X	X	X	-	X	X	X	X	X
braz	X	X	-	-	-	-	-	X	X	X	X
fort	X	X	X	X	X	X	X	X	X	X	X
kour	X	X	X	X	X	X	X	X	X	X	X
lpgs	X	X	X	X	X	X	-	-	-	-	-
sant	-	X	X	X	X	X	X	X	X	X	X
lhcl	X	X	X	X	X	X	X	X	X	X	X
cfag	X	X	X	X	X	X	X	X	X	X	X

Station.info source: headers only
Antenna high are unknown for tripods measurements...

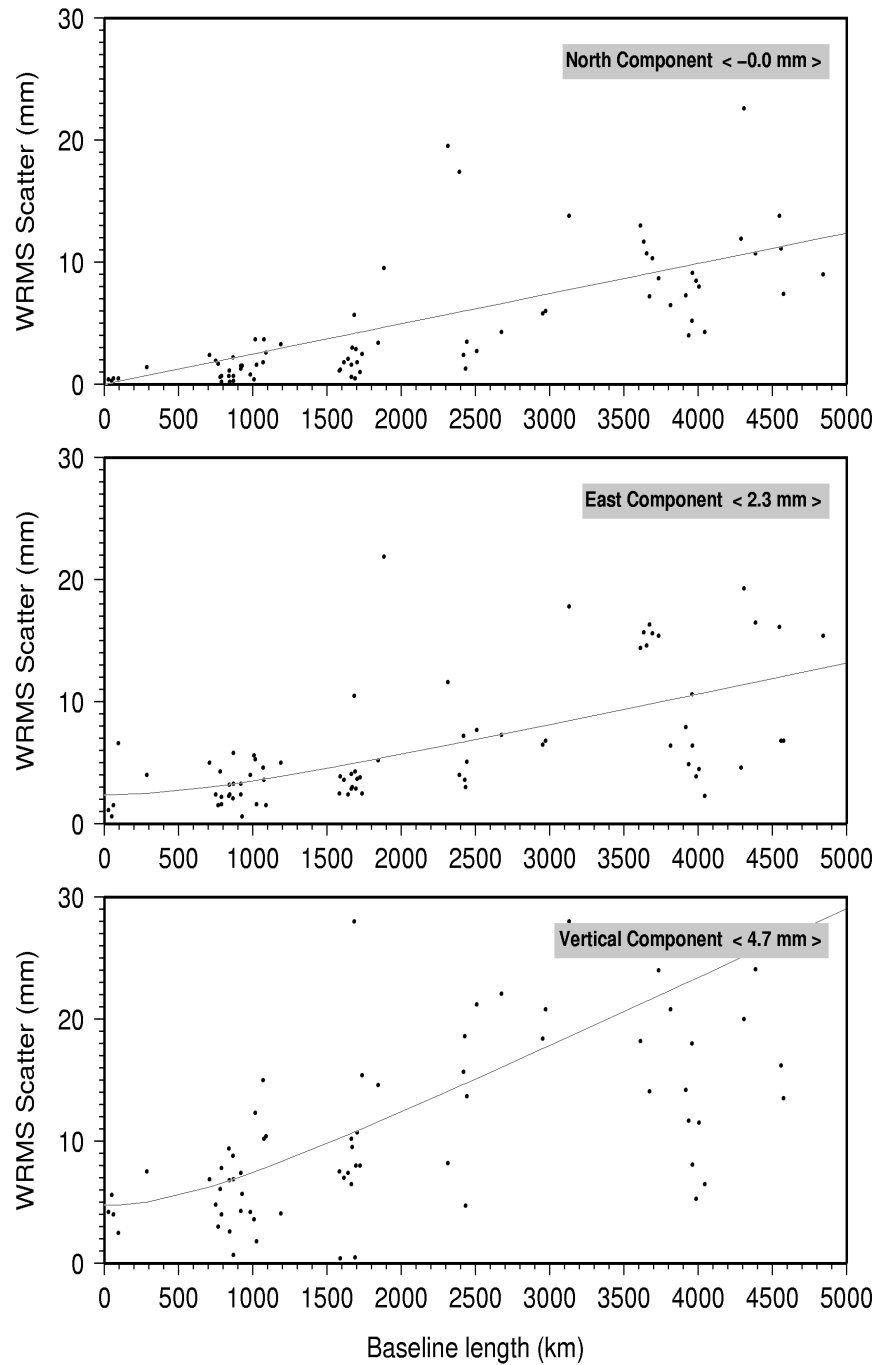
quality : very bad

*SITE	Station Name	Ant Ht	HtCod	Receiver	Type	Vers	SwVer	Receiver	SN	Antenna	Type	Dome	Antenna	SN
* Antofagasta Network 1997														
CALC	Caleta cobre	0.046	DHARP	TRIMBLE	4000SSE	7.19	3.04	----	TRM22020.00+GP	NONE	----	----	----	----
LIVE	Limon Verde	0.046	DHARP	TRIMBLE	4000SSE	7.19	3.04	----	TRM22020.00+GP	NONE	----	----	----	----
MINF	Mina Fortuna	0.046	DHARP	TRIMBLE	4000SSE	7.19	3.04	----	TRM22020.00+GP	NONE	----	----	----	----
BAQU	Baquedano	0.046	DHARP	TRIMBLE	4000SSE	7.19	3.04	----	TRM22020.00+GP	NONE	----	----	----	----
MABL	Mantos Blancos	0.046	DHARP	TRIMBLE	4000SSE	7.19	3.04	----	TRM22020.00+GP	NONE	----	----	----	----
URIB	Uribe	0.046	DHARP	TRIMBLE	4000SSE	7.19	3.04	----	TRM22020.00+GP	NONE	----	----	----	----
ANTF	Antofagasta	0.046	DHARP	TRIMBLE	4000SSE	7.19	3.04	----	TRM22020.00+GP	NONE	----	----	----	----
* North Chile network														
CAMA	Camarones	0.046	DHARP	TRIMBLE	4000SSE	7.19	3.04	----	TRM22020.00+GP	NONE	----	----	----	----
COME		0.046	DHARP	TRIMBLE	4000SSE	7.19	3.04	----	TRM22020.00+GP	NONE	----	----	----	----
GUAT		0.046	DHARP	TRIMBLE	4000SSE	7.19	3.04	----	TRM22020.00+GP	NONE	----	----	----	----
PACO		0.046	DHARP	TRIMBLE	4000SSE	7.19	3.04	----	TRM22020.00+GP	NONE	----	----	----	----
PATI		0.046	DHARP	TRIMBLE	4000SSE	7.19	3.04	----	TRM22020.00+GP	NONE	----	----	----	----
OFLA		0.046	DHARP	TRIMBLE	4000SSE	7.19	3.04	----	TRM22020.00+GP	NONE	----	----	----	----
PICA		0.046	DHARP	TRIMBLE	4000SSE	7.19	3.04	----	TRM22020.00+GP	NONE	----	----	----	----
ZAHU		0.046	DHARP	TRIMBLE	4000SSE	7.19	3.04	----	TRM22020.00+GP	NONE	----	----	----	----

Issues / Notes

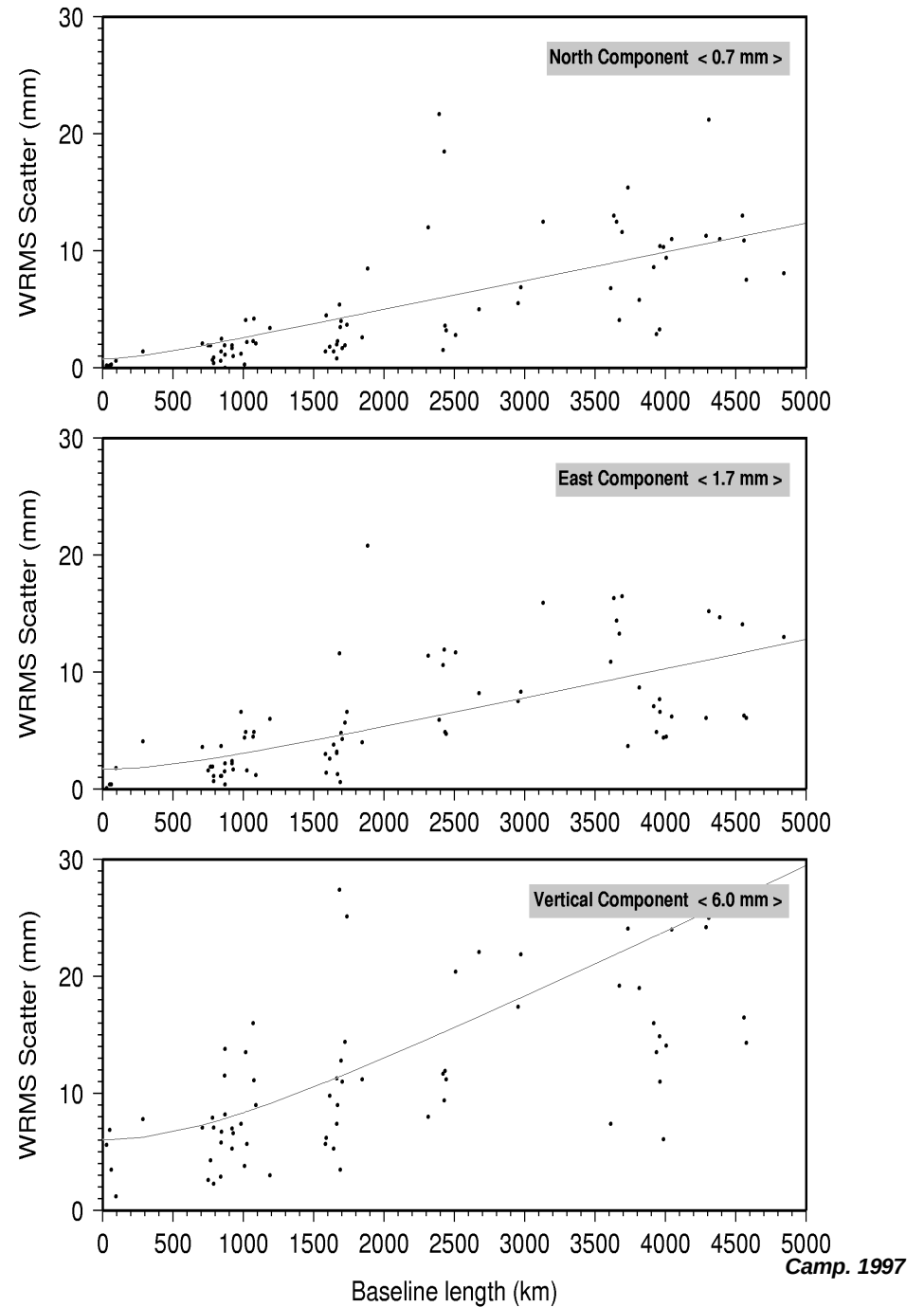
Repetabilities biases free

GDNORD 1997 – IGS orbits – biases free



Repetabilities biases fixed

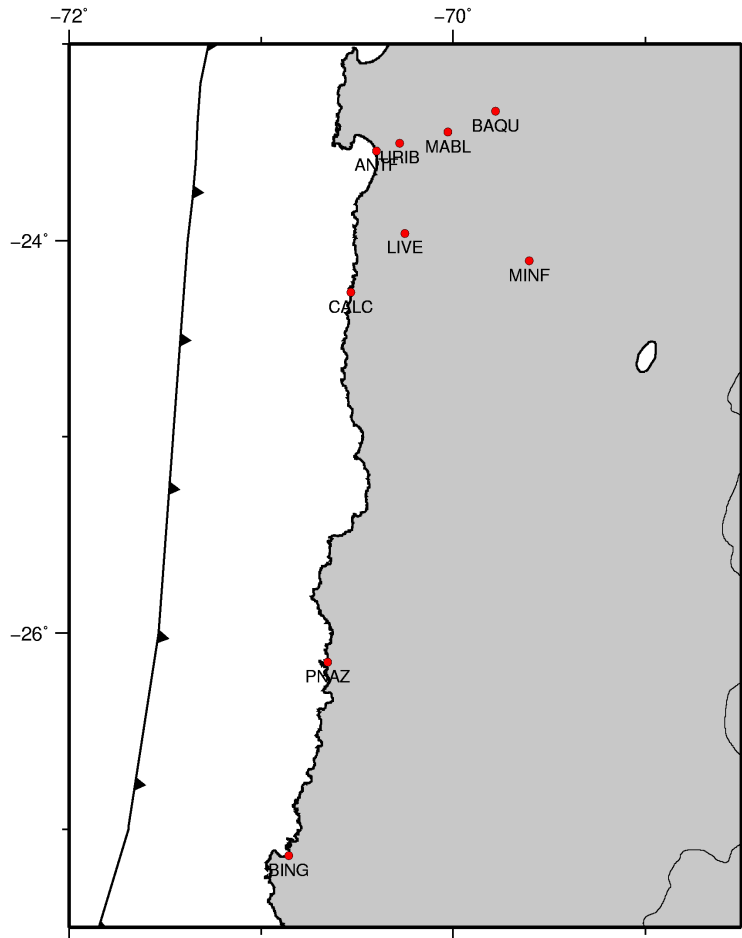
GDNORD 1997 – IGS orbits – biases fixed



GPS campaign – 1999 – GFZ

Map

DOY 311-325



Julian days : 07 nov. → 21 nov.

Season : Spring-Summer

GPS weeks : 1035 → 1037

Rinex source : ftp kg3-dmz.gfz-potsdam.de

x-ok ; O-deleted

	311	312	313	314	318	319	320	321	322	323	324	325
live	-	-	-	-	-	-	-	-	X	X	X	o
calc	-	-	-	-	X	X	X	X	-	-	-	-
minf	-	-	-	-	X	X	X	X	-	-	-	-
baqu	X	X	X	X	-	-	-	-	-	-	-	-
mabl	X	X	X	X	-	-	-	-	-	-	-	-
urib	-	-	-	-	X	X	X	X	-	-	-	-
antf	-	-	-	-	-	-	-	-	X	X	X	o
bing	-	-	-	-	-	-	-	X	X	X	X	o
pnaz	-	-	-	-	-	-	-	-	X	X	X	o

Rinex source : SIO x-ok ; O-deleted

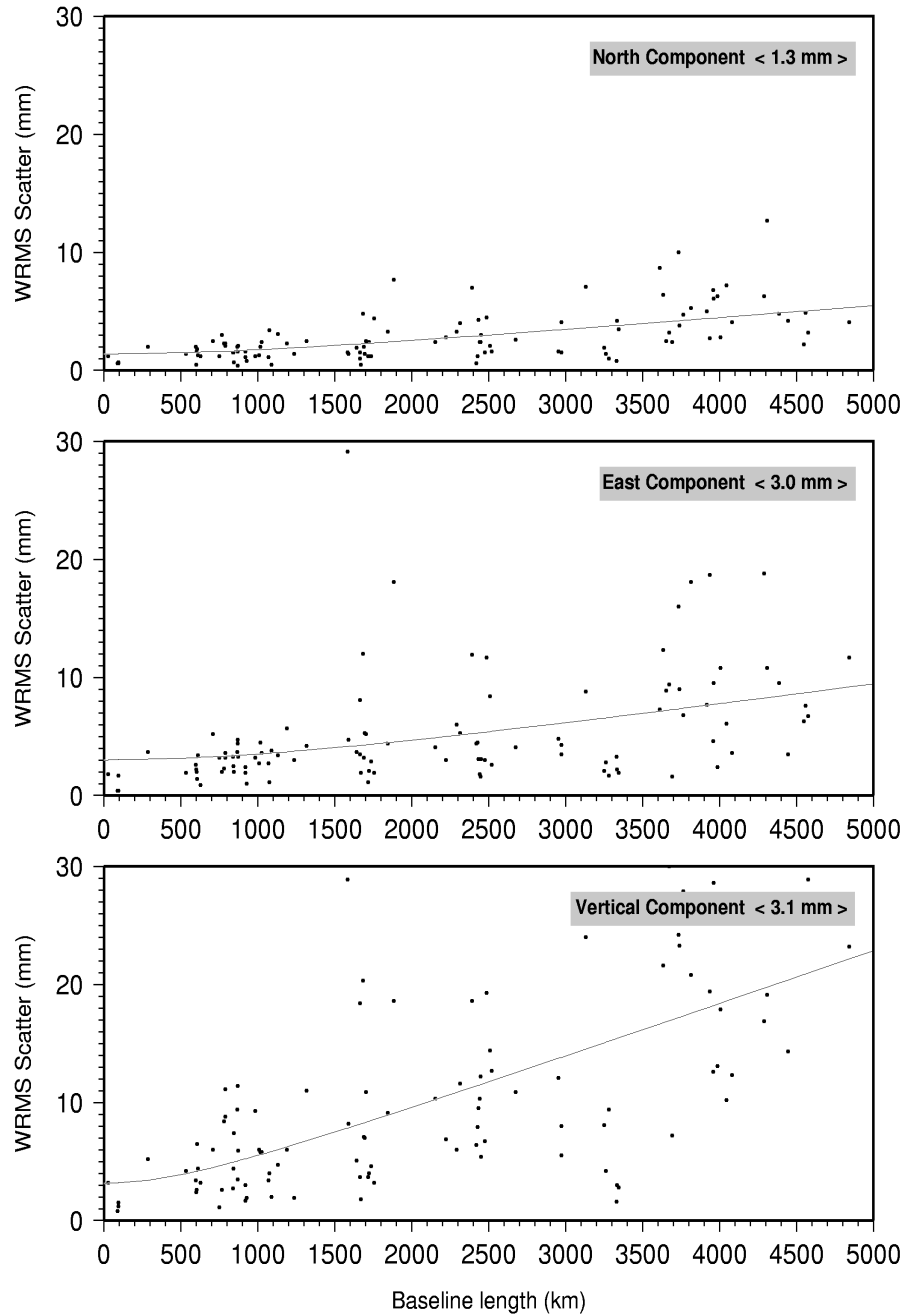
	311	312	313	314	318	319	320	321	322	323	324	325
areq	X	X	X	X	X	X	X	X	X	X	X	X
braz	X	X	X	-	X	X	-	X	X	-	X	X
fort	X	X	X	X	X	X	X	X	X	X	X	X
kour	X	X	X	X	X	X	X	X	X	X	X	X
lpgs	X	X	X	X	X	X	X	X	X	X	X	-
sant	X	-	-	X	X	X	X	X	X	X	X	X
riog	X	X	X	X	X	X	X	X	X	X	X	X
lhcl	X	X	X	X	X	X	-	-	-	-	-	-
tucu	X	X	X	X	X	X	X	X	X	X	X	X
cfag	X	X	X	X	X	X	X	X	X	X	X	X

Station.info source: headers only quality : bad

*SITE	Station Name	AntHt	Receiver	Type	Receiver SN	Antenna	Type	Antenna SN
* Antofagasta Network 1999								
	CALC	Caleta cobre	0.046	DHARP	TRIMBLE	4000SSE	2051	TRM22020.00+GP66169
	LIVE	Limon Verde	0.046	DHARP	TRIMBLE	4000SSE	1994	TRM22020.00+GP66309
	MINF	Mina Fortuna	0.046	DHARP	TRIMBLE	4000SSE	1973	TRM22020.00+GP66321
	BAQU	Baquedano	0.046	DHARP	TRIMBLE	4000SSE	1994	TRM22020.00+GP66309
	MABL	Mantos Blancos	0.046	DHARP	TRIMBLE	4000SSE	2051	TRM22020.00+GP66169
	URIB	Uribe	0.046	DHARP	TRIMBLE	4000SSE	3447	TRM22020.00+GP62897
	ANTF	Antofagasta	0.162	DHARP	TRIMBLE	4000SSE	2014	TRM22020.00+GP66306
	BING	Bahia Inglesa	0.046	DHARP	TRIMBLE	4000SSE	1999	TRM22020.00+GP66331
	PNAZ	Pan de Azucar	0.162	DHARP	TRIMBLE	4000SSE	4620	TRM22020.00+GP68886
* gdnd network								
	CAMA		0.046	DHARP	TRIMBLE	4000SSE	1999	TRM22020.00+GP66331
	COME		0.046	DHARP	TRIMBLE	4000SSE	2002	TRM22020.00+GP66317
	GUAT		0.046	DHARP	TRIMBLE	4000SSE	1980	TRM22020.00+GP66334
	OFLA		0.046	DHARP	TRIMBLE	4000SSE	4615	TRM22020.00+GP68900
	PACO		0.046	DHARP	TRIMBLE	4000SSE	1999	TRM22020.00+GP66331
	PATI		0.046	DHARP	TRIMBLE	4000SSE	4616	TRM22020.00+GP68879
	PICA		0.046	DHARP	TRIMBLE	4000SSE	4620	TRM22020.00+GP68886
	ZAHU		0.046	DHARP	TRIMBLE	4000SSE	2051	TRM22020.00+GP66169

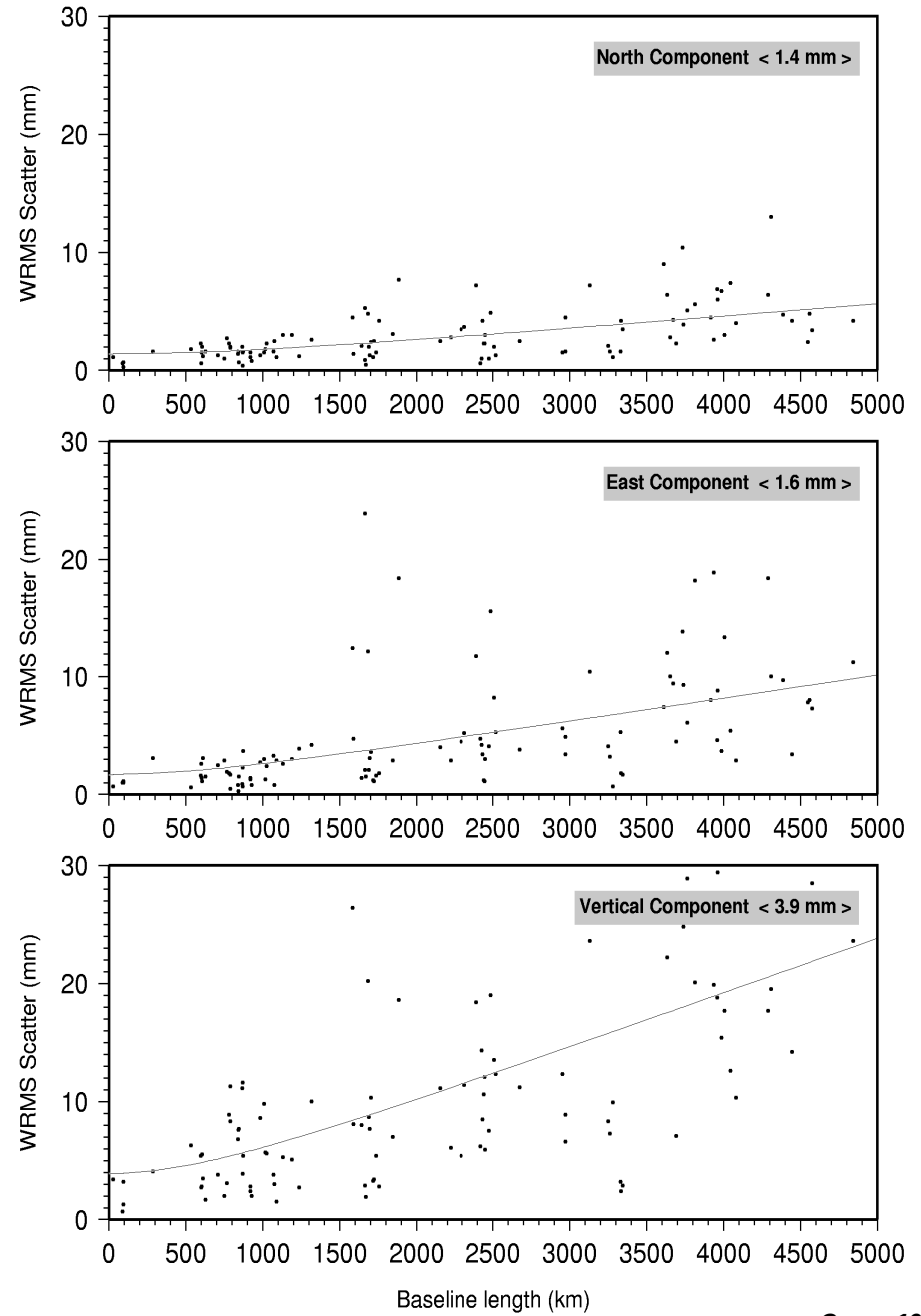
Repetabilities biases free

GDNORD 1999 – IGS orbits – biases free



Repetabilities biases fixed

GDNORD 1999 – IGS orbits – biases fixed



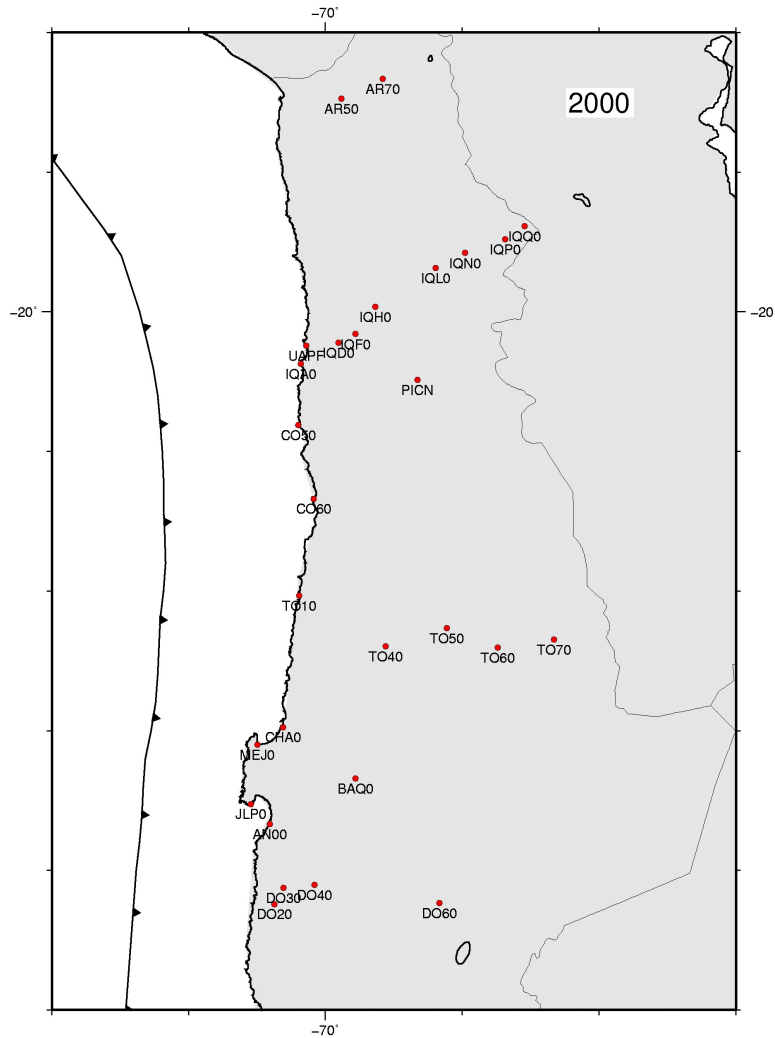
GPS campaign – 2000 – LiA

→ 36 measurement points

→ 12 receivers

Map

DOY 281-292



Julian days : 07 oct. → 18 oct.

Season : Spring

GPS weeks : 1082 → 1084

Rinex source : IPGP archives x-ok ; O-deleted

	281	282	283	284	285	286	287	288	289	290	291	292
an00	X	X	X	X	X	X	X	X	X	X	X	X
ar19	-	X	-	-	-	-	-	X	-	X	-	-
ar50	X	X	X	X	X	X	X	X	X	X	-	-
ar70	-	-	X	-	-	X	X	-	-	-	-	-
ar90	-	-	-	X	X	X	X	X	-	-	-	-
baq0	-	-	-	-	-	X	X	X	X	X	X	X
cha0	-	-	-	-	-	-	-	X	X	X	-	-
co33	-	-	-	-	-	-	-	-	X	-	X	-
co50	-	-	-	-	-	-	-	X	-	-	X	-
co60	-	-	-	-	-	-	-	-	X	-	X	-
do20	-	X	X	-	-	X	X	-	-	-	X	-
do30	-	-	-	X	-	-	-	-	-	-	-	-
do40	-	X	X	X	X	X	-	-	-	-	-	-
do54	-	-	X	-	-	-	X	-	-	-	-	-
do60	-	-	-	X	X	X	X	-	-	-	-	-
iqa0	-	-	-	-	-	-	-	-	-	-	-	X
iqa1	-	-	-	-	-	-	-	X	-	X	X	X
iqa3	-	-	-	-	-	-	-	-	-	-	-	X
iqd0	-	-	-	-	-	X	X	X	X	X	-	-
iqf0	-	-	-	-	-	-	-	-	-	X	X	X
iqh0	-	-	-	-	X	-	X	-	X	X	-	-
iq10	-	X	X	-	X	X	-	-	-	-	-	-
iqn0	-	X	X	X	-	-	-	-	-	-	-	-
iqp0	X	X	X	X	X	X	-	-	-	-	-	-
iqq0	X	X	-	-	-	-	-	-	-	-	-	-
jlp0	-	-	-	-	-	-	-	-	X	X	X	-
mej0	-	-	-	-	-	-	-	X	-	X	X	-
ohig	-	-	-	-	-	-	-	-	X	-	-	-
picn	X	X	X	X	X	X	X	X	X	X	X	X
tol0	-	-	X	-	-	-	-	-	X	X	X	-
to34	-	X	X	-	-	-	-	X	X	-	-	-
to40	-	-	X	X	-	-	-	X	-	-	-	-
to50	-	X	X	X	X	X	X	-	-	-	-	-
to60	-	-	-	X	X	-	X	-	-	-	-	-
to70	-	-	-	-	X	X	X	-	-	-	-	-
uapf	X	X	-	X	X	X	X	X	X	X	X	X

Rinex source : SIO x-ok ; O-deleted

	281	282	283	284	285	286	287	288	289	290	291	292
areq	X	X	X	X	X	X	X	X	X	X	X	X
braz	X	X	X	X	X	X	X	X	X	X	X	X
kour	X	X	X	X	X	X	X	X	X	X	X	X
lpgs	X	X	X	X	X	X	X	X	X	X	X	X
sant	X	X	X	X	X	X	X	X	X	X	X	X
riog	X	X	X	X	X	X	X	X	X	X	X	X
lhcl	X	X	X	X	X	X	X	X	X	X	X	X
tucu	X	X	X	X	X	X	X	X	X	X	X	X
cfag	X	X	X	X	X	X	X	X	X	X	X	X
unsa	X	X	X	X	X	X	X	X	X	X	X	X
rwsn	X	X	X	X	X	-	X	X	X	X	X	X
vbca	X	X	X	X	X	X	X	X	X	X	X	X

Issues / Notes

- Rinex provided directly by IPG no access to raw data
- antenna Chockering version ASH 700936E not supported by GAMIT.
Changed to ASH 700936E_C
- very few measurements on AR19 and DO54. Affecting repeatability

Station.info

source: headers and log sheets

quality : ~ heights are DHARP or SLECR

*SITE Station Name AntHt Receiver Type Receiver SN Antenna Type Antenna SN

* Antofagasta Network 2000 - réalisé à partir du LOG file d'archive + des headers des rinex + fiches de site directes pour hauteurs d'antenne.

* attention : gamit ne supporte pas la vraie version des chock ring utilisée ASH700936E. On la change pour ASH700936E_C. ça revient à priori au même...

AN00	Antofagasta	0.0420	DHARP	ASHTECH	Z-XII3	131	ASH700936E_C	104
BAQ0	Baquedano	0.0500	DHARP	ASHTECH	Z-XII3	239	ASH700936E_C	034
CHA0	Chacaya	1.3550	SLBCR	ASHTECH	Z-XII3	351	ASH700936E_C	472
JLP0	Juan Lopez	0.0431	DHARP	ASHTECH	Z-XII3	266	ASH700936E_C	010
JLP0	Juan Lopez	0.0430	DHARP	ASHTECH	Z-XII3	346	ASH700936E_C	474
MEJ0	Mejillones	1.2040	SLBCR	ASHTECH	Z-XII3	266	ASH700936E_C	010
MEJ0	Mejillones	1.1900	SLBCR	ASHTECH	Z-XII3	180	ASH700936E_C	917
DO20	Sierra Remie	0.5890	SLBCR	ASHTECH	Z-XII3	266	ASH700936E_C	010
DO20	Sierra Remie	0.6900	SLBCR	ASHTECH	Z-XII3	351	ASH700936E_C	472
DO30	Camino Paposo	0.6195	SLBCR	ASHTECH	Z-XII3	351	ASH700936E_C	472
DO40	Las Tetas	0.8890	SLBCR	ASHTECH	Z-XII3	351	ASH700936E_C	472
DO40	Las Tetas	0.6870	SLBCR	ASHTECH	Z-XII3	351	ASH700936E_C	472
DO54	Cruz Ferrocari	0.9785	SLBCR	ASHTECH	Z-XII3	266	ASH700936E_C	010
DO54	Cruz Ferrocari	1.0860	SLBCR	ASHTECH	Z-XII3	351	ASH700936E_C	472
DO60	Escondida	1.2075	SLBCR	ASHTECH	Z-XII3	266	ASH700936E_C	010
TO10	Punta Guamillo	0.8510	SLBCR	ASHTECH	Z-XII3	239	ASH700936E_C	034
TO10	Punta Guamillo	0.9590	SLBCR	ASHTECH	Z-XII3	346	ASH700936E_C	474
TO34	Estacion Cerri	0.7390	SLBCR	ASHTECH	Z-XII3	346	ASH700936E_C	474
TO34	Estacion Cerri	0.7080	SLBCR	ASHTECH	Z-XII3	180	ASH700936E_C	917
TO40	Estacion Coya	1.2683	SLBCR	ASHTECH	Z-XII3	239	ASH700936E_C	034
TO40	Estacion Coya	1.3420	SLBCR	ASHTECH	Z-XII3	239	ASH700936E_C	034
TO40	Estacion Coya	1.2173	SLBCR	ASHTECH	Z-XII3	346	ASH700936E_C	474
TO50	San Julian	1.1290	SLBCR	ASHTECH	Z-XII3	180	ASH700936E_C	917
TO60	Chiu-Chiu	1.0210	SLBCR	ASHTECH	Z-XII3	346	ASH700936E_C	474
TO60	Chiu-Chiu	1.0590	SLBCR	ASHTECH	Z-XII3	346	ASH700936E_C	474
TO60	Chiu-Chiu	0.9540	SLBCR	ASHTECH	Z-XII3	180	ASH700936E_C	917
TO70	Caspana	0.9425	SLBCR	ASHTECH	Z-XII3	239	ASH700936E_C	034
TO70	Caspana	1.1276	SLBCR	ASHTECH	Z-XII3	346	ASH700936E_C	474
TO70	Caspana	1.1605	SLBCR	ASHTECH	Z-XII3	346	ASH700936E_C	474

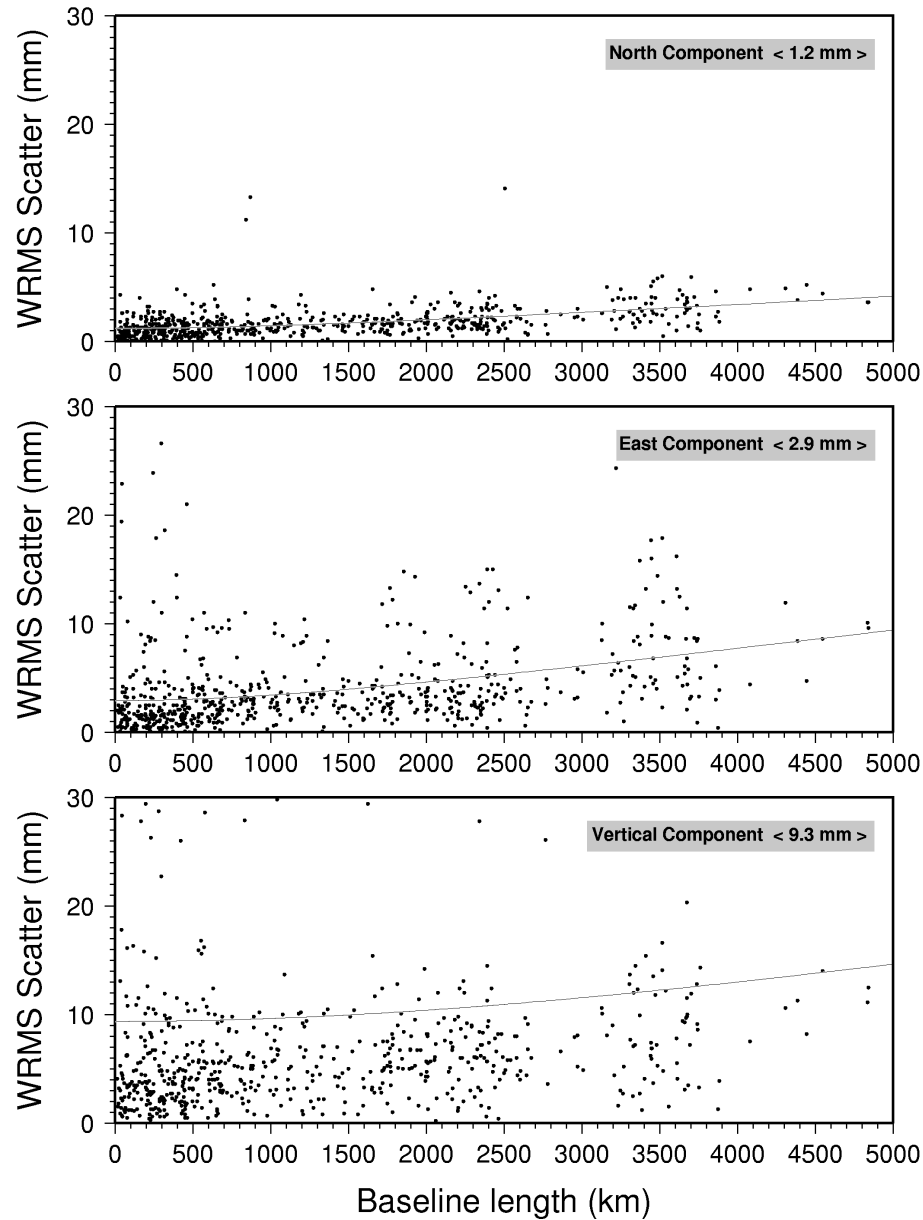
AR19	PerfilArica1	1.0403	SLBCR	ASHTECH	Z-XII3	702	ASH700936E_C	909
AR19	PerfilArica1	0.9150	SLBCR	ASHTECH	Z-XII3	358	ASH700936E_C	920
AR50	PerfilArica5	1.0940	SLBCR	ASHTECH	Z-XII3	358	ASH700936E_C	645
AR70	PerfilArica7	1.1465	SLBCR	ASHTECH	Z-XII3	702	ASH700936E_C	909
AR70	PerfilArica7	0.9938	SLBCR	ASHTECH	Z-XII3	358	ASH700936E_C	645
AR70	PerfilArica7	0.9696	SLBCR	ASHTECH	Z-XII3	358	ASH700936E_C	645
AR90	PerfilArica9	1.1832	SLBCR	ASHTECH	Z-XII3	702	ASH700936E_C	909

* Arica/Iquique Network

CO33	pisagua	1.1863	SLBCR	ASHTECH	Z-XII3	702	ASH700936E_C	909
CO33	pisagua	0.9640	SLBCR	ASHTECH	Z-XII3	358	ASH700936E_C	920
CO50	Punta Patache	0.9680	SLBCR	ASHTECH	UZ-12	053	ASH700936E_C	687
CO50	Punta Patache	0.9740	SLBCR	ASHTECH	Z-XII3	340	ASH700936E_C	916
CO60	punta_chipana	1.1255	SLBCR	ASHTECH	UZ-12	053	ASH700936E_C	687
CO60	punta_chipana	1.0595	SLBCR	ASHTECH	UZ-12	053	ASH700936E_C	687
IQA0	Punta Gruesa	0.9640	SLBCR	ASHTECH	Z-XII3	340	ASH700936E_C	916
IQA1	Punta Gruesa	0.7897	SLBCR	ASHTECH	UZ-12	004	ASH700936E_C	911
IQA1	Punta Gruesa	0.8690	SLBCR	ASHTECH	UZ-12	004	ASH700936E_C	911
IQA3	Punta Gruesa	1.0025	SLBCR	ASHTECH	UZ-12	053	ASH700936E_C	687
IQD0	nasa	1.0360	SLBCR	ASHTECH	UZ-12	053	ASH700936E_C	687
IQD0	nasa	1.0330	SLBCR	ASHTECH	Z-XII3	340	ASH700936E_C	916
IQF0	San Jose	1.3140	SLBCR	ASHTECH	Z-XII3	702	ASH700936E_C	909
IQH0	Unita	1.0627	SLBCR	ASHTECH	UZ-12	053	ASH700936E_C	687
IQH0	Unita	0.9860	SLBCR	ASHTECH	UZ-12	004	ASH700936E_C	911
IQH0	Unita	1.1217	SLBCR	ASHTECH	UZ-12	053	ASH700936E_C	687
IQH0	Unita	1.1590	SLBCR	ASHTECH	UZ-12	053	ASH700936E_C	687
IQL0	chuzmisa	0.9860	SLBCR	ASHTECH	UZ-12	053	ASH700936E_C	687
IQL0	chuzmisa	1.0230	SLBCR	ASHTECH	UZ-12	053	ASH700936E_C	687
IQL0	chuzmisa	0.8730	SLBCR	ASHTECH	UZ-12	004	ASH700936E_C	911
IQN0	Tapa	0.8787	SLBCR	ASHTECH	UZ-12	004	ASH700936E_C	911
IQP0	Cariquima	1.1925	SLBCR	ASHTECH	Z-XII3	340	ASH700936E_C	916
IQQ0	Vinto	1.1257	SLBCR	ASHTECH	UZ-12	053	ASH700936E_C	687
PICN	Pica_new_pt.N	0.1200	L1PHC	ASHTECH	Z-XII3	348	ASH700936E_C	945

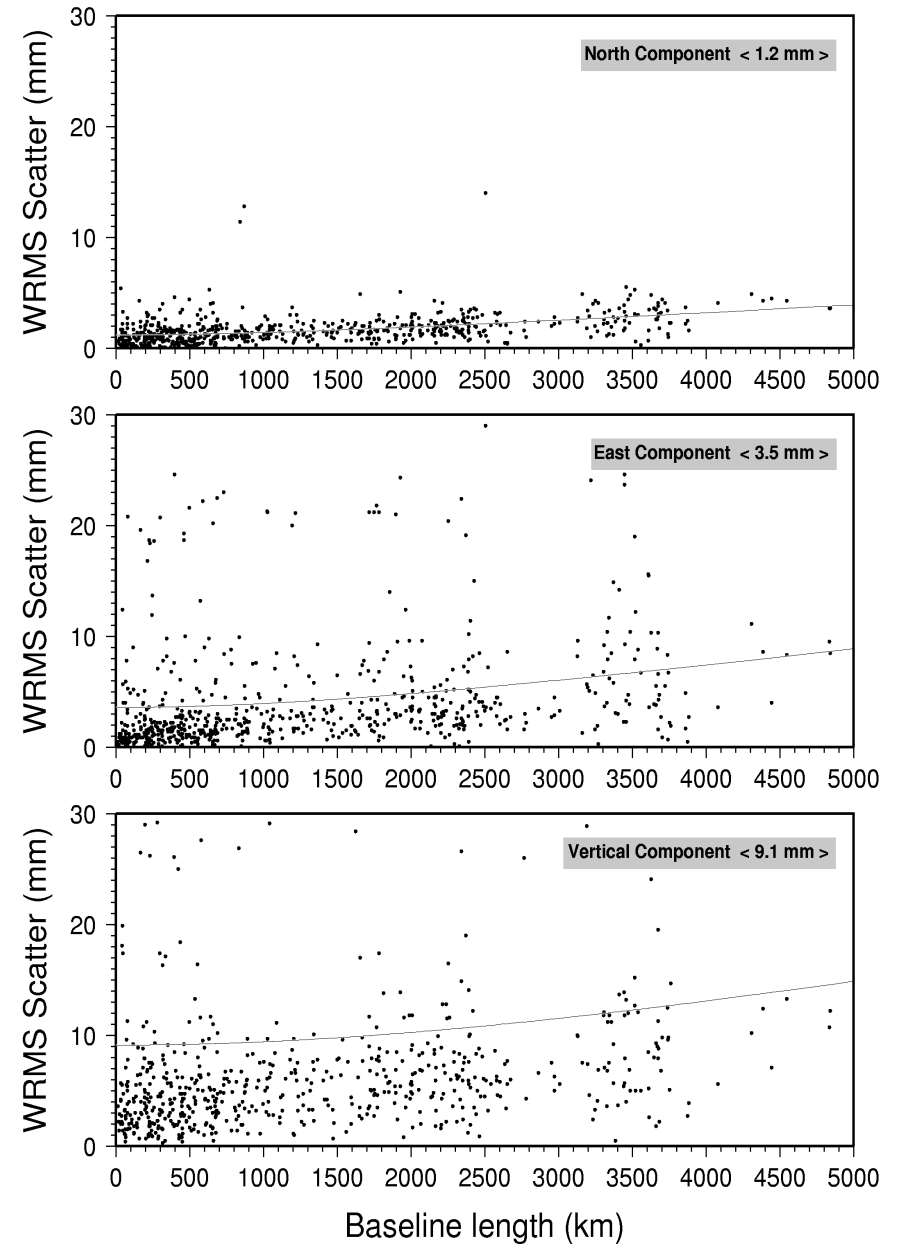
Repetabilities biases free

GDNORD 2000 – IGS orbits – biases free



Repetabilities biases fixed

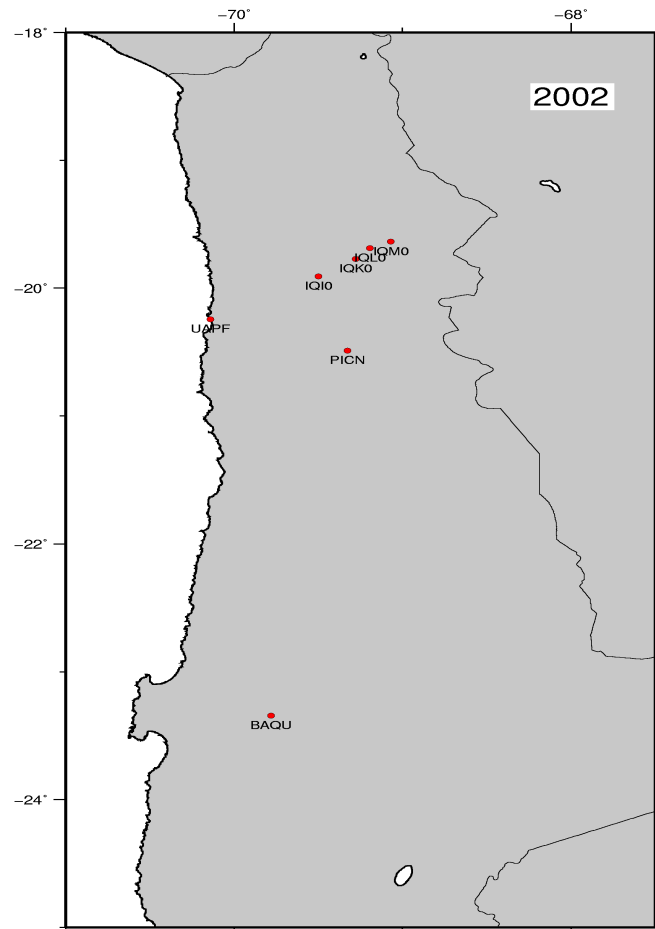
GDNORD 2000 – IGS orbits – biases fixed



GPS campaign – 2002

Map

DOY 193-203



Julian days : 12 juil. → 22 juil.

Season : Winter

GPS weeks : 1174 → 1176

Rinex source : ftp kg3-dmz.gfz-potsdam.de
x-ok ; O-deleted

	193	194	195	196	197	198	199	200	201	202	203
aeda	-	-	-	-	-	-	-	-	-	X	X
baqu	X	X	X	X	X	X	X	X	X	X	X
iqd5	-	-	-	-	-	-	X	X	X	-	-
iqi0	-	-	-	-	-	-	-	-	-	-	X
iqj0	-	-	-	-	-	-	-	-	-	-	X
iqk0	-	-	-	-	-	-	-	X	X	-	X
iql0	-	-	-	-	-	-	-	X	X	-	-
iqm0	-	-	-	-	-	-	-	X	-	-	-

Rinex source : SIO x-ok ; O-deleted

	193	194	195	196	197	198	199	200	201	202	203
antc	X	X	X	X	X	X	X	-	X	X	X
braz	X	X	X	X	X	X	X	X	X	X	X
kour	X	X	X	X	X	X	X	X	X	X	X
lpgs	X	X	X	X	X	X	X	X	X	X	X
sant	X	X	X	X	X	X	X	X	X	X	X
riog	X	X	X	X	X	X	X	X	X	X	X
copo	X	X	X	X	X	X	X	X	X	X	X
conz	X	X	X	X	X	X	X	X	X	X	X
lhcl	X	X	X	X	X	X	X	X	X	X	X
cfag	X	X	X	X	X	X	X	X	X	X	X
unsa	X	X	X	X	X	X	X	X	X	X	X
rwsn	X	X	X	X	X	X	X	-	-	-	-
vbca	X	X	X	X	X	X	X	X	X	X	X

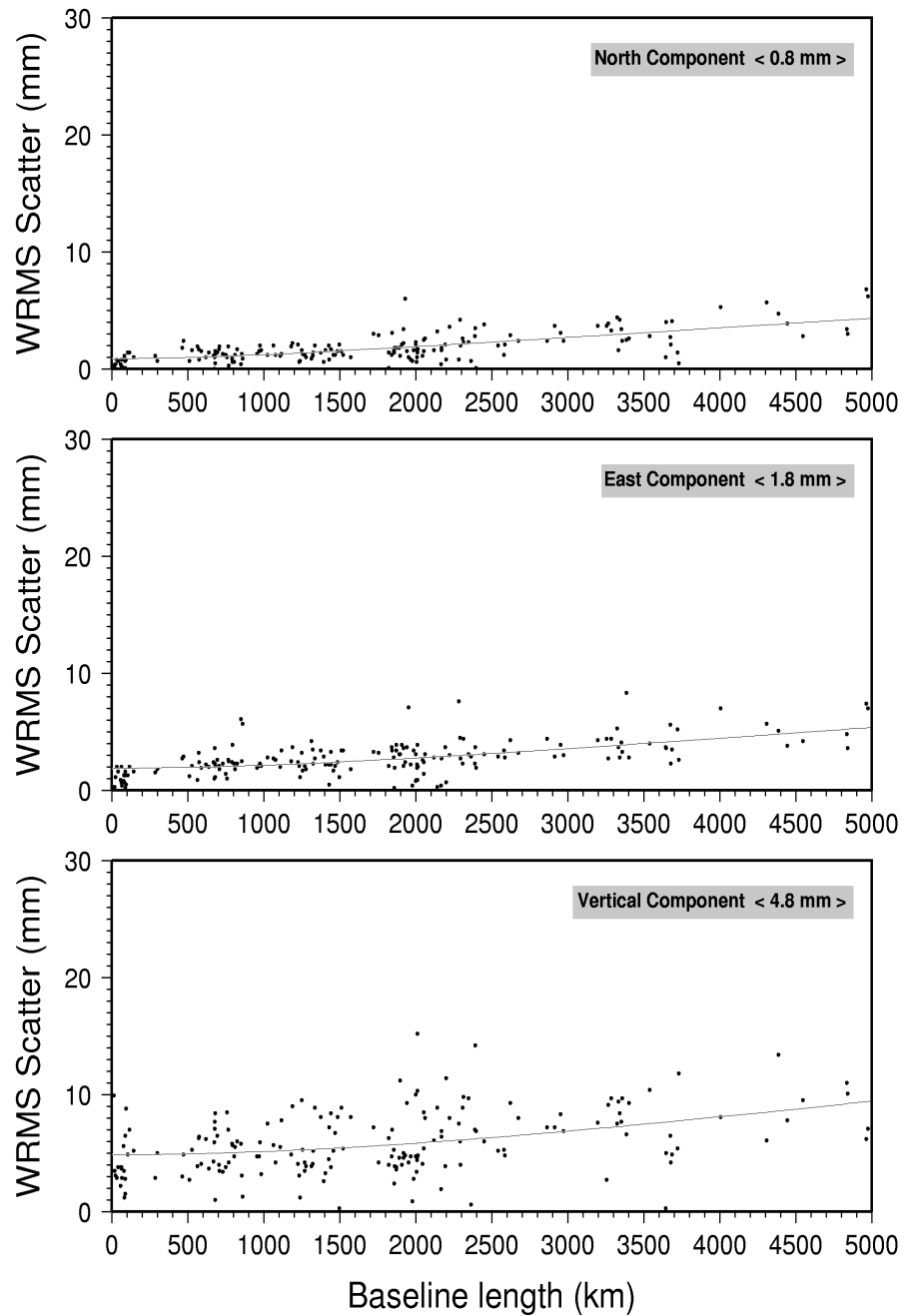
Station.info source: headers + archives quality : bad

* North Chile Network Juin 2002 from JCR archive doc chuz_station.info
modifie pour les codes d'antenne...

*SITE	AntHt	Code	Receiver	Type	Receiver SN	Antenna Type	Antenna SN
IQD5	1.6900	SLBCR	ASHTECH	UZ-12	812	ASH700936A_M	105
IQI0	1.2593	DHARP	ASHTECH	P-XII3	131	ASH700700.A	969
IQJ0	1.2110	DHARP	ASHTECH	UZ-12		ASH700718A	---
IQK0	0.9158	DHARP	ASHTECH	Z-XII3	266	ASH700700.A	315
IQK0	0.5816	DHARP	ASHTECH	Z-XII3	266	ASH700700.A	315
IQL0	0.5725	DHARP	ASHTECH	P-XII3	131	ASH700700.A	502
IQM0	0.9878	DHTGP	ASHTECH	UZ-12		ASH700718A	---
BAQU	1.0235	SLBCR	ASHTECH	UZ-12	811	ASH700936A_M	106
AEDA	1.0855	SLBCR	ASHTECH	UZ-12	812	ASH700936A_M	105

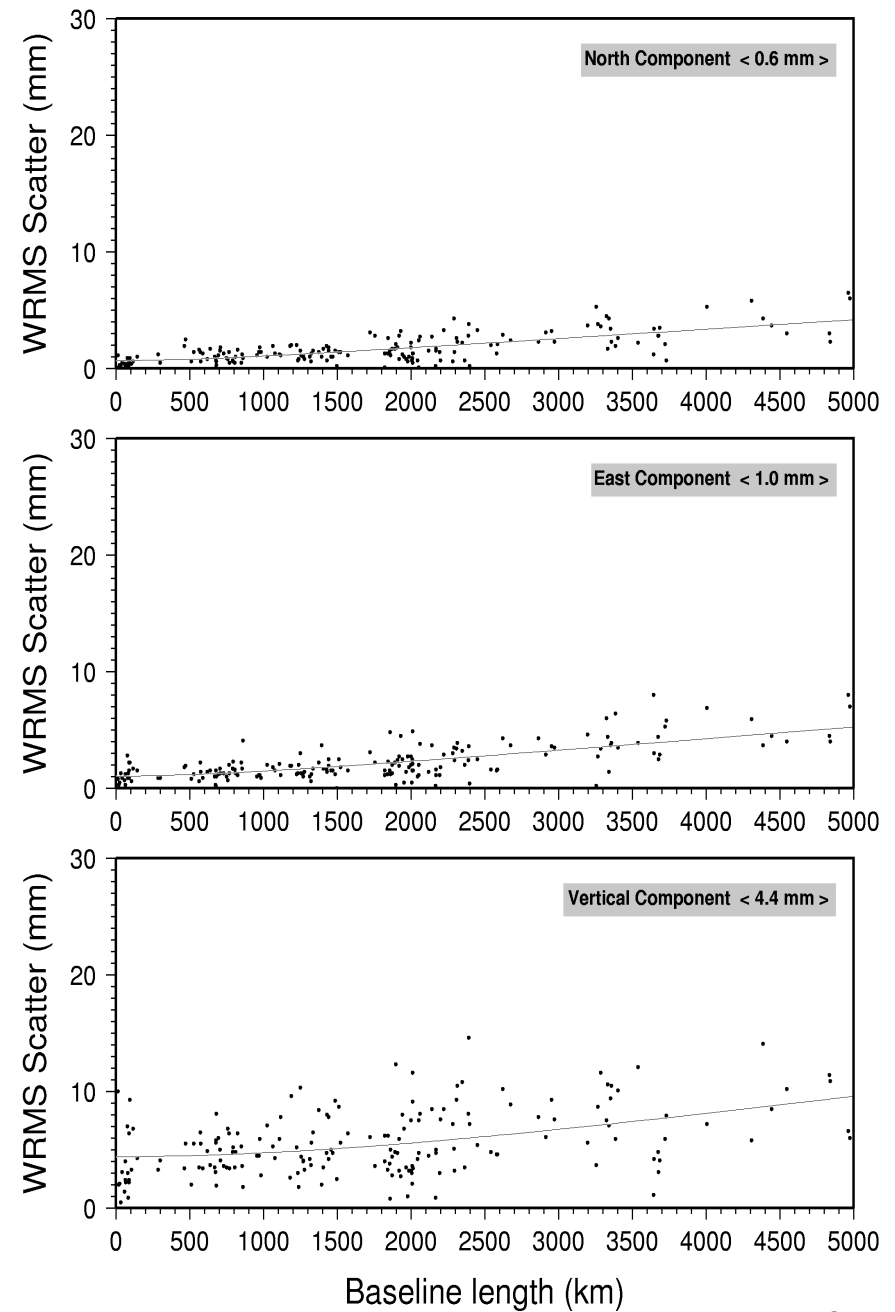
Repetabilities biases free

GDNORD 2002 – IGS orbits – biases free



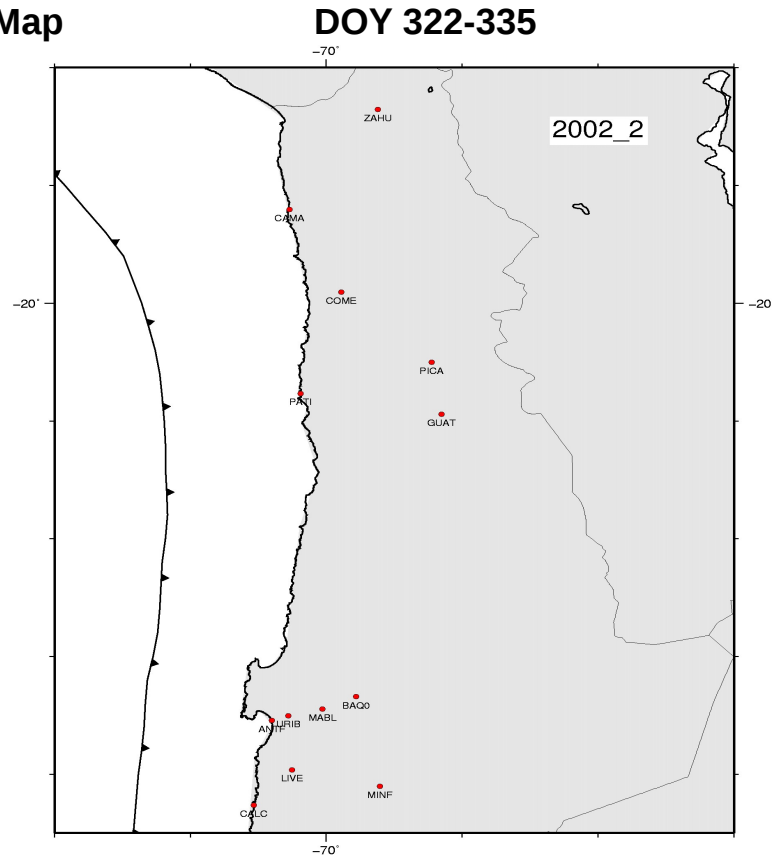
Repetabilities biases fixed

GDNORD 2002 – IGS orbits – biases fixed



GPS campaign – 2002 – GFZ

Map



Julian days : 18 nov. → 01 dec.

Season : Spring-Summer

GPS weeks : 1193 → 1195

Notes /Issues :

not included in the final combination, because of many outliers and strange positions :
 ANTF 1m outlier : tie or antenna height pb ?
 BAQU out from autcln ?

Rinex source : ftp kg3-dmz.gfz-potsdam.de

x-ok ; O-deleted

	322	323	324	325	326	327	328	329	330	331	332	333	334	335
antf	-	-	-	-	-	-	-	-	o	o	o	-	-	-
baqu	-	-	-	-	-	-	-	o	o	o	o	-	-	-
live	-	-	-	-	-	-	-	o	X	X	X	-	-	-
urib	-	-	-	-	-	-	-	-	X	X	X	-	-	-
calc	-	-	-	-	-	-	-	-	-	-	X	X	X	X
minf	-	-	-	-	-	-	-	-	-	-	X	X	X	X
cama	X	X	X	X	-	-	-	-	-	-	-	-	-	-
come	X	X	X	X	-	-	-	-	-	-	-	-	-	-
guat	-	-	-	-	o	o	o	o	-	-	-	-	-	-
pati	X	X	X	X	-	-	-	-	-	-	-	-	-	-
pica	X	X	X	-	-	-	-	-	-	-	-	-	-	-
zahu	X	X	X	X	-	-	-	-	-	-	-	-	-	-

Rinex source : SIO x-ok ; O-deleted

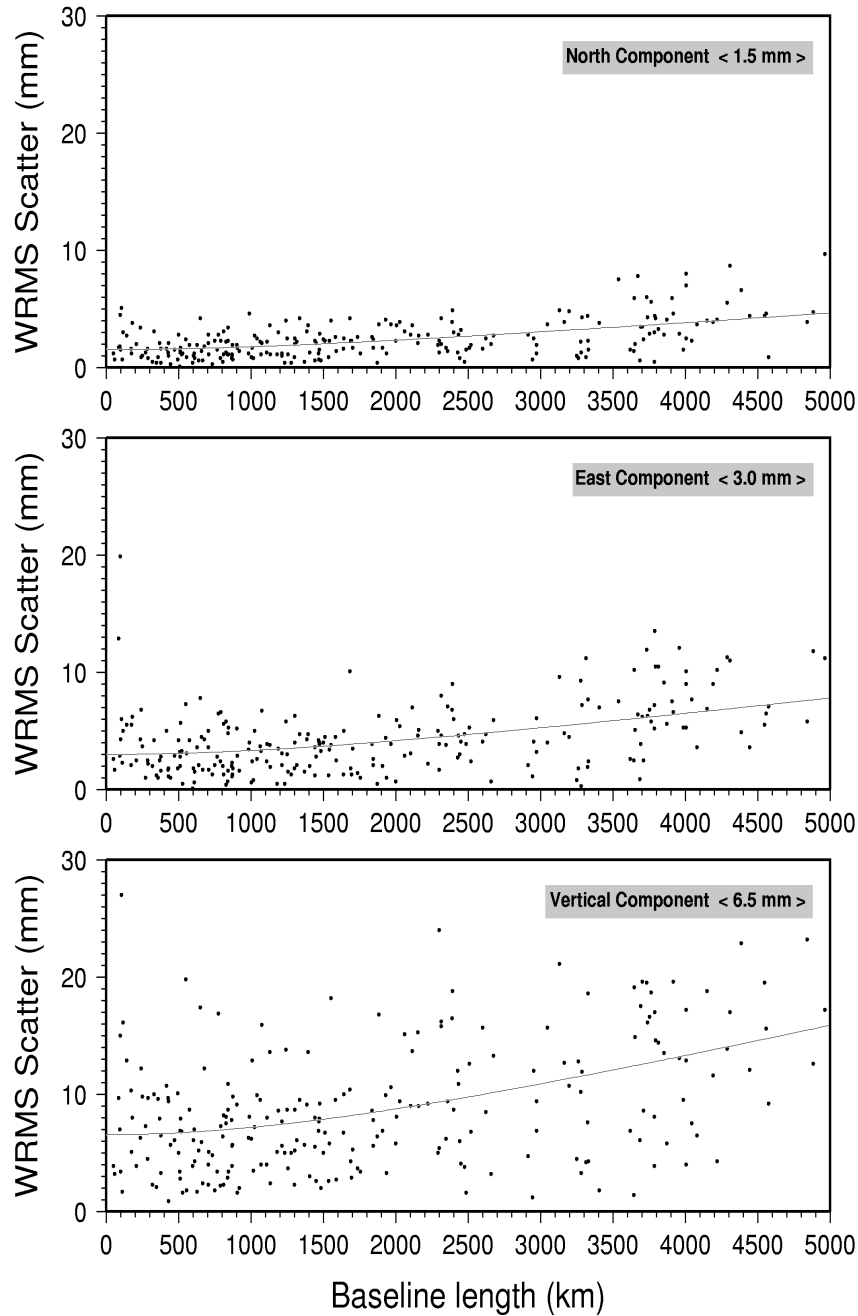
	322	323	324	325	326	327	328	329	330	331	332	333	334	335
antc	X	X	X	X	X	X	X	X	X	X	X	X	X	X
areq	X	X	X	X	X	X	X	X	X	X	X	X	X	X
braz	X	X	X	X	X	X	X	X	X	X	X	X	X	X
brft	-	-	-	-	-	-	-	-	-	-	-	-	-	-
kour	X	X	X	X	X	X	X	X	X	X	X	X	X	X
lpgs	X	X	X	X	X	X	X	X	X	X	X	X	X	X
sant	X	X	X	X	X	X	X	X	X	X	X	X	X	X
copo	-	X	X	X	X	X	-	-	X	X	X	X	X	X
conz	X	X	-	X	-	X	X	X	X	X	-	X	X	X
lhcl	-	-	-	-	-	-	-	-	-	-	X	X	X	X
tucu	X	X	X	X	X	X	X	X	X	X	-	-	-	-
cfag	X	X	X	X	X	X	X	X	X	X	X	X	X	X
unsa	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Station.info source: headers only quality : bad

*SITE	AntHt	Code	Receiver	Type	Receiver SN	Antenna Type	Antenna SN
CALC	0.1085	DHARP	TRIMBLE	4000SSE	4268	TRM22020.00+GP	63287
LIVE	0.1085	DHARP	TRIMBLE	4000SSE	4270	TRM22020.00+GP	63291
MINF	0.1085	DHARP	TRIMBLE	4000SSE	4036	TRM22020.00+GP	-----
BAQU	0.1085	DHARP	TRIMBLE	4000SSE	4266	TRM22020.00+GP	63273
URIB	0.1085	DHARP	TRIMBLE	4000SSE	4039	TRM22020.00+GP	53848
ANTF	0.2245	DHARP	TRIMBLE	4000SSE	4620	TRM22020.00+GP	68886
BING	0.046	DHARP	TRIMBLE	4000SSE	1995	TRM22020.00+GP	6315
PNAZ	0.2245	DHARP	TRIMBLE	4000SSE	4620	TRM22020.00+GP	68886
CAMA	0.1085	DHARP	TRIMBLE	4000SSE	4270	TRM22020.00+GP	63291
COME	0.1152	DHARP	TRIMBLE	4000SSE	1999	TRM22020.00+GP	66331
GUAT	0.1085	DHARP	TRIMBLE	4000SSE	4036	TRM22020.00+GP	-----
PACO	0.1085	DHARP	TRIMBLE	4000SSE	4615	TRM22020.00+GP	68900
PATI	0.1085	DHARP	TRIMBLE	4000SSE	4039	TRM22020.00+GP	53848
PICA	0.1152	DHARP	TRIMBLE	4000SSE	2053	TRM22020.00+GP	66425
ZAHU	0.1085	DHARP	TRIMBLE	4000SSE	4620	TRM22020.00+GP	68886

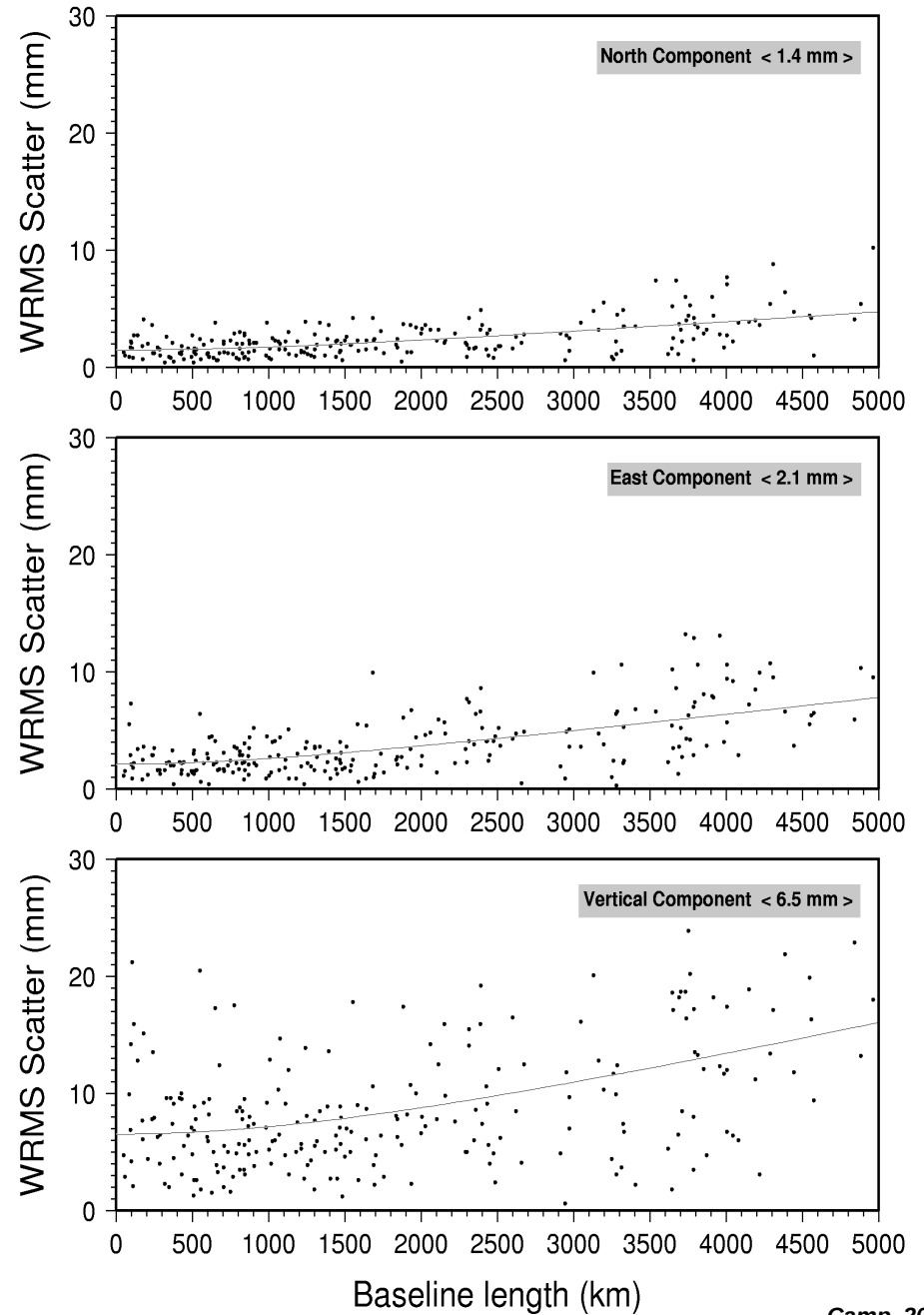
Repetabilities biases free

GDNORD 2002 – IGS orbits – biases free



Repetabilities biases fixed

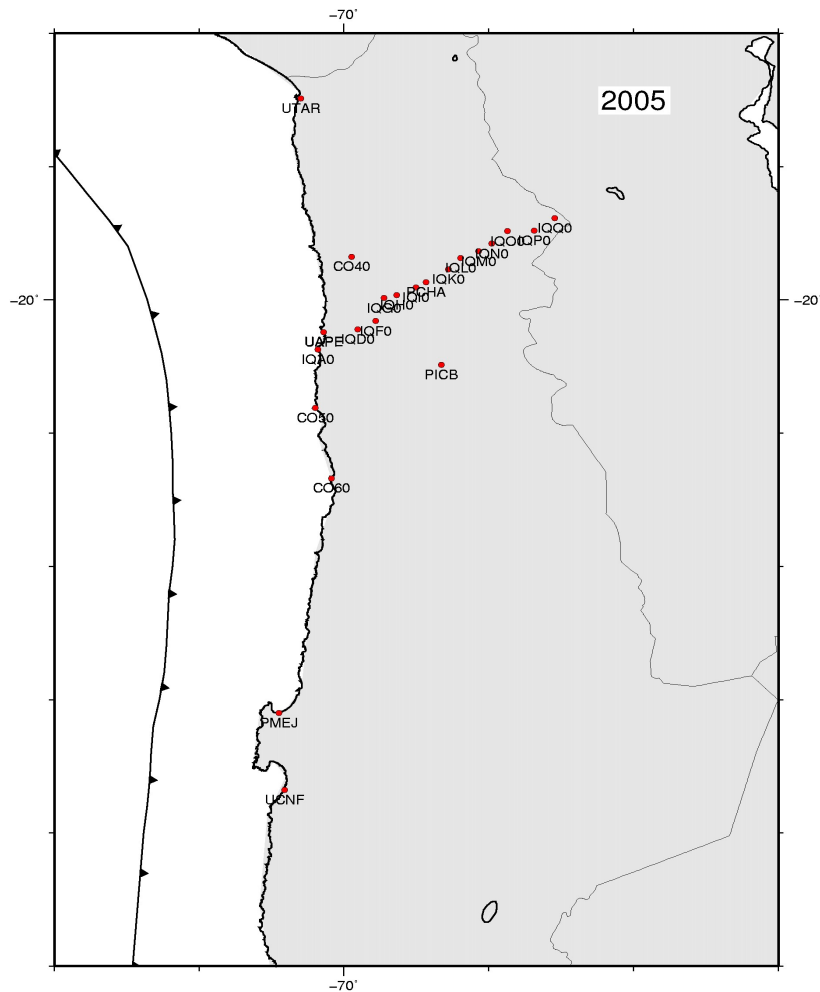
GDNORD 2002 – IGS orbits – biases fixed



GPS campaign – 2005 – LiA

Map

DOY 177-183



Julian days : 26 juin → 02 juil.

Season : Winter

GPS weeks : 1329 → 1329

Rinex source : IGP archives x-ok ; O-deleted

	176	177	178	179	180	181	182	183
co33	-	X	X	X	X	-	-	-
co40	-	-	X	X	X	-	-	-
co50	-	-	-	-	X	X	X	X
co60	-	-	-	-	-	X	X	X
iqa0	-	-	-	-	X	X	-	-
iqd0	-	-	-	X	X	X	-	-
iqf0	-	-	-	-	X	X	-	-
iqg0	-	-	-	-	X	X	-	-
iqh0	-	X	X	X	X	-	-	-
iqi0	-	-	-	X	-	-	-	-
iqk0	-	-	-	X	-	-	-	-
iql0	-	-	-	X	-	-	-	-
iqm0	-	-	-	X	-	-	-	-
iqn0	-	X	X	X	X	X	X	-
iqo0	-	-	-	X	X	X	X	-
iqp0	-	X	X	X	X	X	X	-
iqq0	-	X	X	X	-	-	-	-
antc	X	X	X	X	X	X	X	X
areq	X	X	X	X	X	X	X	X
braz	X	X	X	X	X	X	X	X
kour	X	X	X	X	X	X	X	X
lpgs	X	X	X	X	X	X	X	X
sant	X	X	X	X	X	X	X	X
riog	X	X	X	X	X	X	X	X
ispa	X	X	X	X	X	X	X	X
glps	X	X	X	X	X	X	X	X
copo	X	X	X	X	X	X	X	X
conz	X	X	X	X	X	X	X	X
tucu	X	X	X	X	X	X	X	X
chpi	X	X	X	X	X	X	X	X
cfag	X	X	X	X	X	X	X	X
unsa	X	X	X	X	X	X	X	X
mzac	-	-	-	X	X	X	X	X
rwsn	-	-	X	X	X	X	X	X
ucor	X	X	X	X	X	X	X	-
unro	X	X	X	X	X	X	X	X
vbca	X	X	X	X	X	X	X	X
cuib	X	X	X	X	X	X	X	X
poal	-	-	X	X	X	X	X	-
pmej	X	X	X	X	X	X	X	X
uape	X	X	X	X	X	X	X	X
pcha	-	-	-	-	-	X	X	X
utar	X	X	X	X	X	X	X	X
ucnf	X	X	X	X	X	X	X	X

Station.info source: headers and log sheets
quality : ~ heights are corrected from SLANT to DHPAB

Issues / Notes

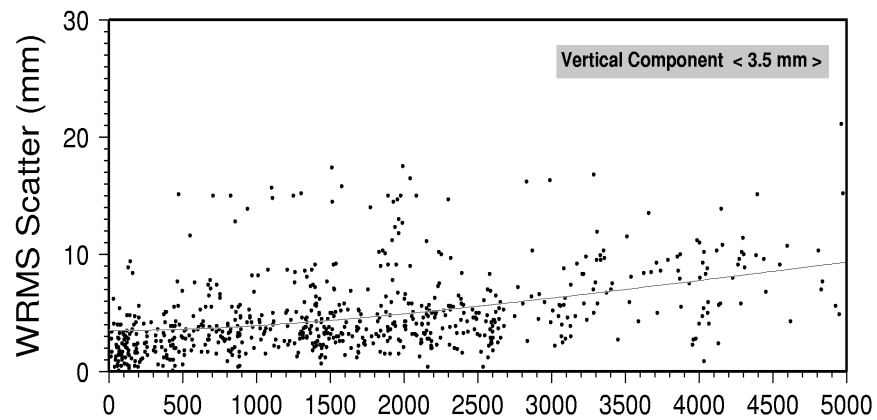
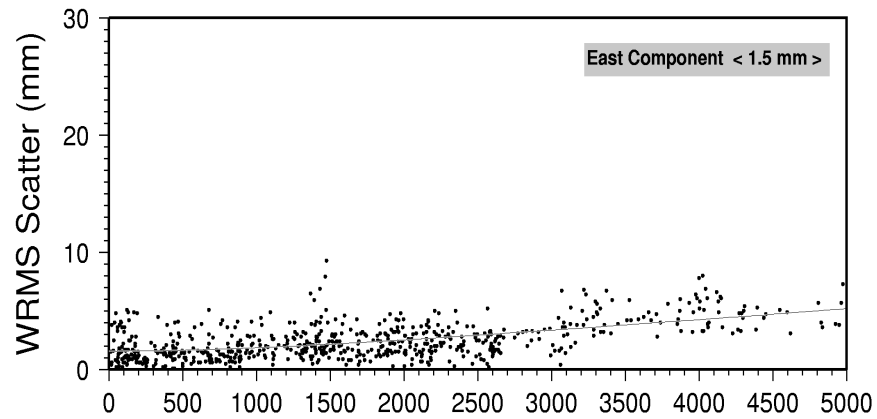
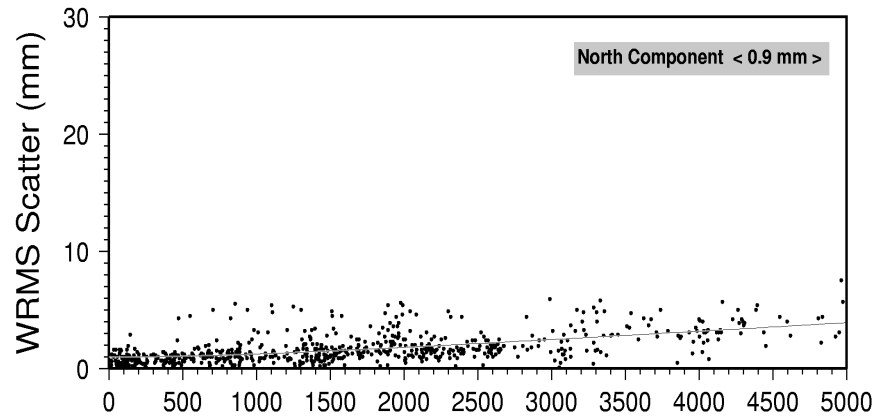
*SITE	Station Name	AntHt	Receiver	Type	Receiver SN	Antenna Type	Antenna SN
CO33	1.2505	DHPAB	ASHTECH	UZ-12	320	ASH701975.01A	807
CO40	1.0730	DHPAB	ASHTECH	UZ-12	324	ASH701975.01A	914
CO50	0.9680	DHPAB	ASHTECH	UZ-12	324	ASH701975.01A	914
CO60	0.9780	DHPAB	ASHTECH	UZ-12	821	ASH701975.01A	255
IQA0	0.7640	DHPAB	ASHTECH	UZ-12		ASH701975.01A	---
IQD0	1.0280	DHPAB	ASHTECH	UZ-12		ASH701975.01A	---
IQD0	1.0310	SLBGP	TRIMBLE	NETRS	31236762	TRM41249.00	12612078
IQD5	1.0250	DHPAB	ASHTECH	UZ-12		ASH701975.01A	---
IQE0	1.0290	DHPAB	ASHTECH	UZ-12		ASH700700.B	---
IQF0	1.0570	DHPAB	ASHTECH	UZ-12		ASH701975.01A	---
IQG0	1.0820	SLBGP	TRIMBLE	NETRS	20233972	TRM41249.00	---
IQH0	0.2140	DHPAB	ASHTECH	UZ-12	821	ASH701975.01A	255
IQI0	0.9840	DHPAB	ASHTECH	UZ-12		ASH701975.01A	---
IQK0	1.0450	DHPAB	TRIMBLE	NETRS	20233972	TRM41249.00	---
IQL0	0.8960	SLBGP	TRIMBLE	NETRS	31236762	TRM41249.00	12612078
IQM0	1.1731	DHPAB	ASHTECH	UZ-12		ASH701975.01A	---
IQN0	1.9240	DHPAB	ASHTECH	UZ-12	014	ASH701975.01A	916
IQO0	0.6570	DHPAB	ASHTECH	UZ-12	043	ASH701975.01A	727
IQP0	1.0210	DHPAB	ASHTECH	UZ-12	018	ASH701975.01A	278
IQQ0	0.9350	DHPAB	ASHTECH	UZ-12	043	ASH701975.01A	727

→ Important motion in AREQ

→ Station.info rebuilt from old "station.info.chil"

Repetabilities biases free

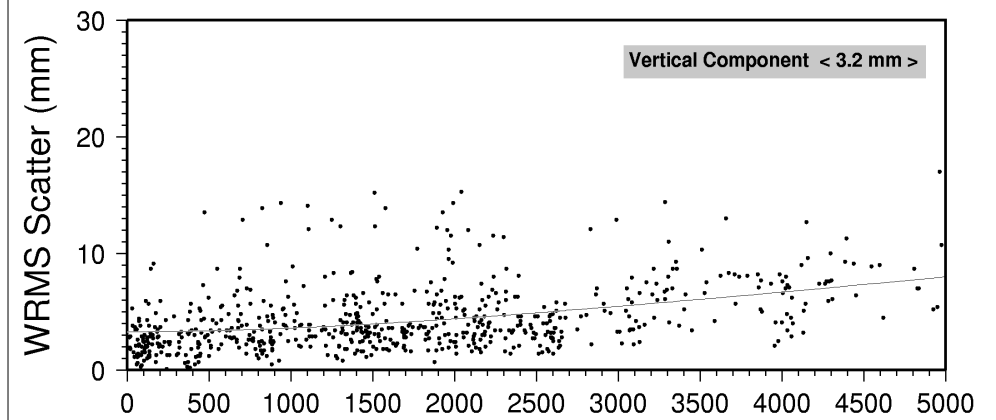
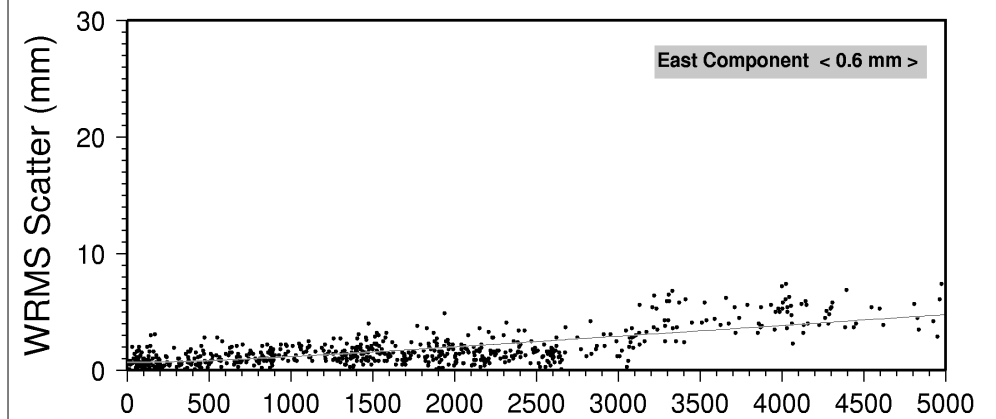
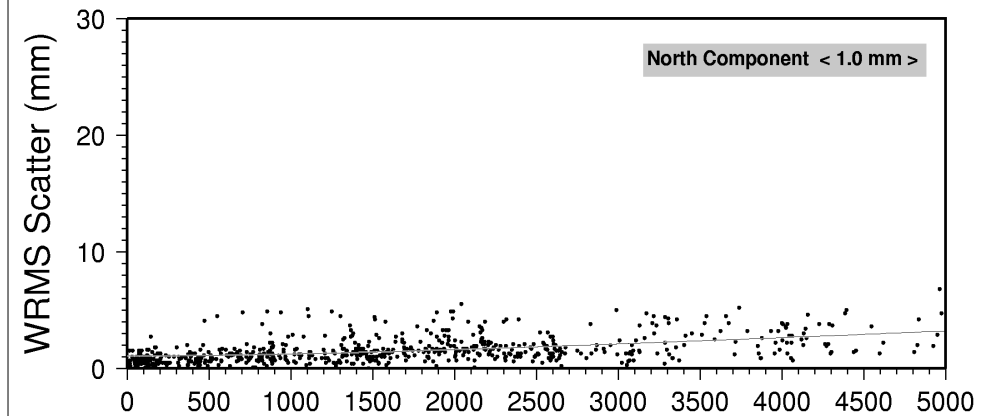
GDNORD 2005 – IGS orbits – biases free



Baseline length (km)

Repetabilities biases fixed

GDNORD 2005 – IGS orbits – biases fixed

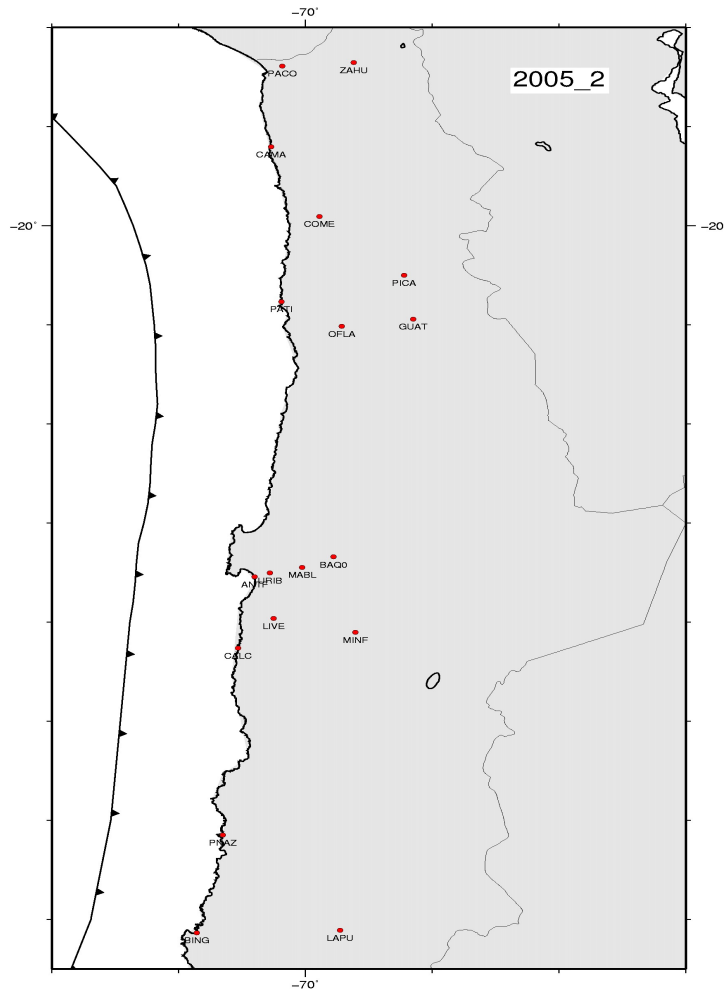


Baseline length (km)

GPS campaign – 2005 – GFZ

Station.info source: headers only quality : very bad

Map DOY 289-306 excl 294-297



*SITE	Station Name	AntHt	Receiver	Type	Receiver SN	Antenna	Type	Antenna SN
* GFZ mission 2005								
ANTF	0.162	DHARP	TRIMBLE	4000SSE	----	TRM22020.00+GP	----	----
BAQU	0.046	DHARP	TRIMBLE	4000SSE	4266	TRM22020.00+GP	----	63273
BING	0.046	DHARP	TRIMBLE	4000SSE	1995	TRM22020.00+GP	----	----
CALC	0.046	DHARP	TRIMBLE	4000SSE	4268	TRM22020.00+GP	----	----
CAMA	0.046	DHARP	TRIMBLE	4000SSE	----	TRM22020.00+GP	----	----
COME	0.046	DHARP	TRIMBLE	4000SSE	----	TRM22020.00+GP	----	----
GUAT	0.046	DHARP	TRIMBLE	4000SSE	----	TRM22020.00+GP	----	----
LAPU	0.1152	DHARP	TRIMBLE	4000SSE	4616	TRM22020.00+GP	----	66332
LIVE	0.053	DHARP	TRIMBLE	4000SSE	4270	TRM22020.00+GP	----	----
MABL	0.046	DHARP	TRIMBLE	4000SSE	2051	TRM22020.00+GP	----	----
MINF	0.046	DHARP	TRIMBLE	4000SSE	4036	TRM22020.00+GP	----	----
OFLA	0.046	DHARP	TRIMBLE	4000SSE	----	TRM22020.00+GP	----	----
PACO	0.046	DHARP	TRIMBLE	4000SSE	----	TRM22020.00+GP	----	----
PATI	0.046	DHARP	TRIMBLE	4000SSE	----	TRM22020.00+GP	----	----
PICA	0.046	DHARP	TRIMBLE	4000SSE	----	TRM22020.00+GP	----	----
PNAZ	0.162	DHARP	TRIMBLE	4000SSE	4620	TRM22020.00+GP	----	----
URIB	0.046	DHARP	TRIMBLE	4000SSE	4039	TRM22020.00+GP	----	----
ZAHU	0.046	DHARP	TRIMBLE	4000SSE	----	TRM22020.00+GP	----	----

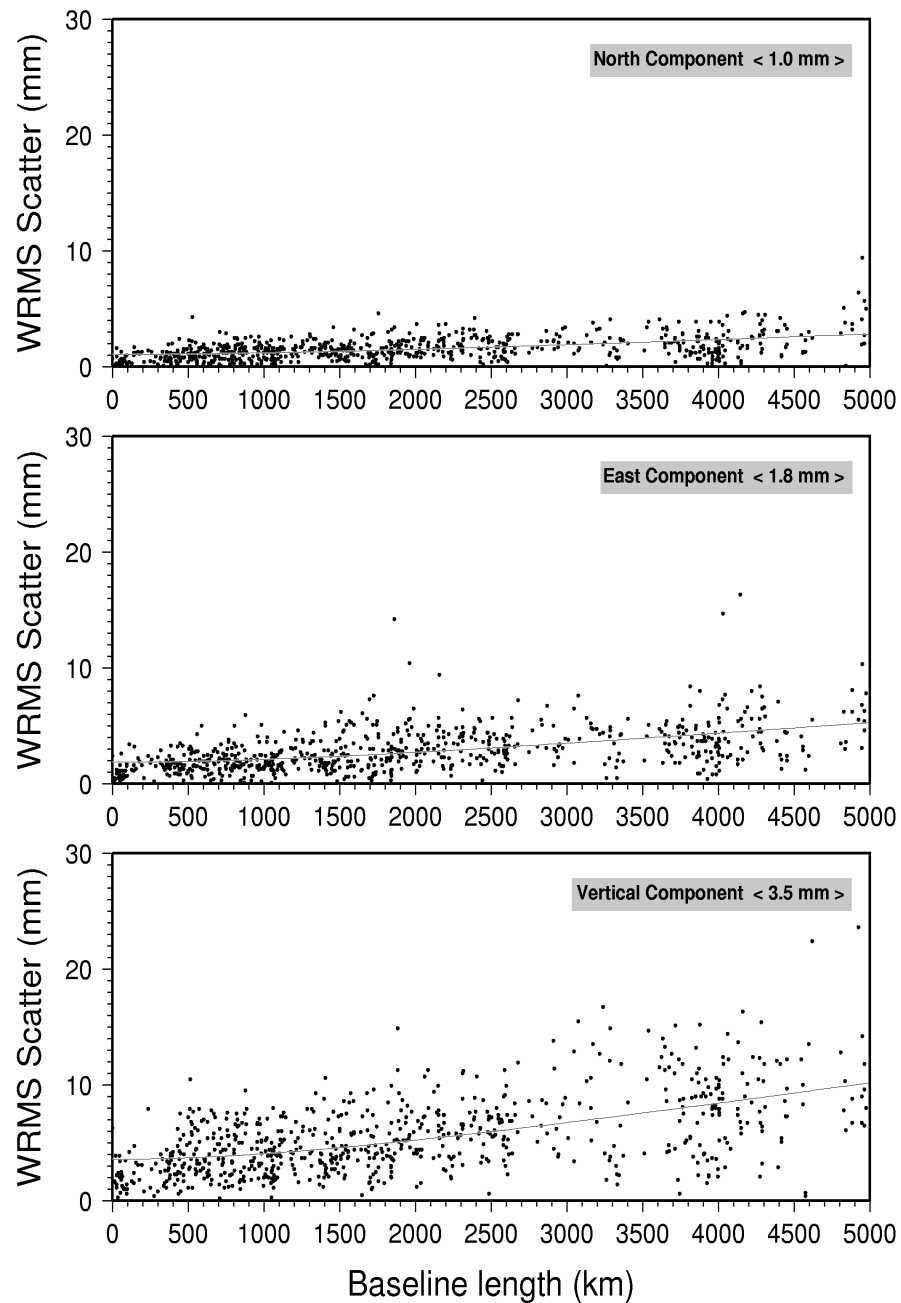
Julian days : 16 oct. → 02 nov.

Season : Spring-Summer

GPS weeks : 1345 → 1347

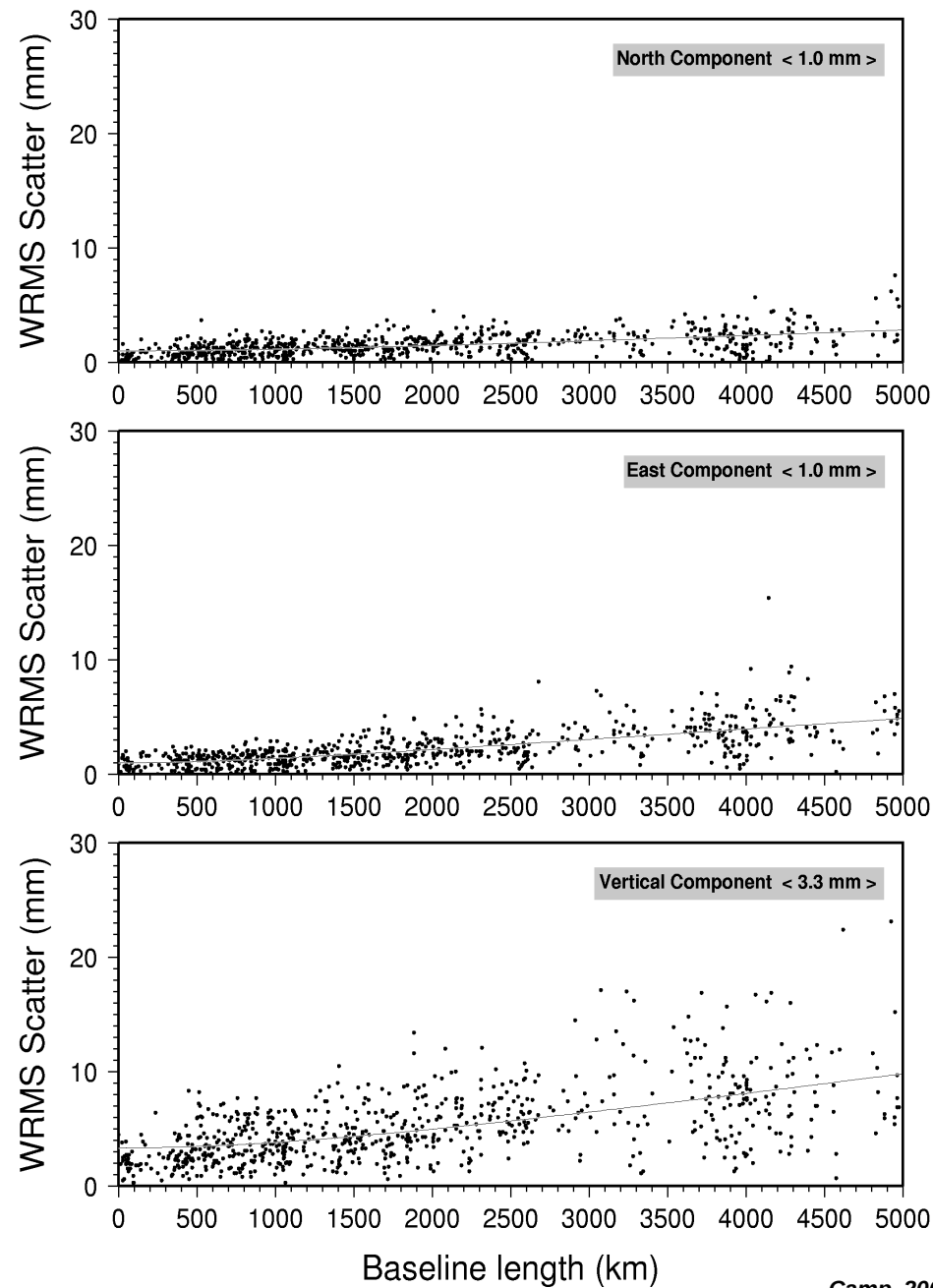
Repetabilities biases free

GDNORD 2005 – IGS orbits – biases free



Repetabilities biases fixed

GDNORD 2005 – IGS orbits – biases fixed

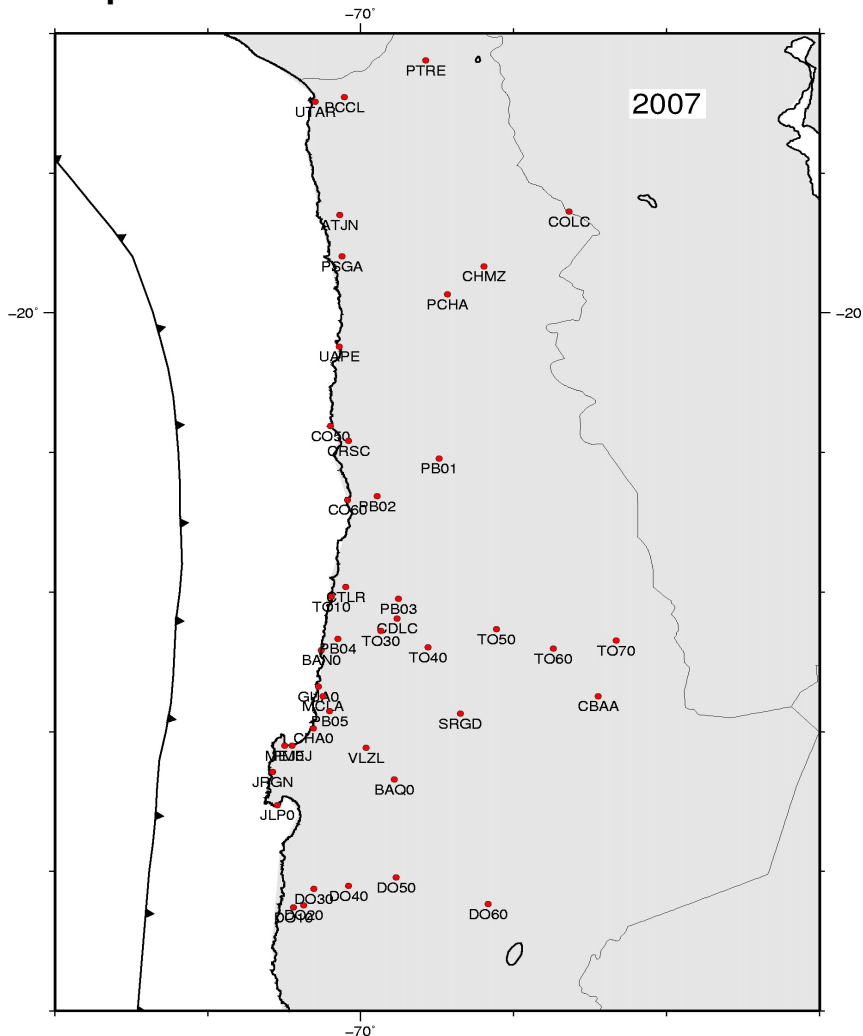


GPS campaign – 2007 – LiA

Station.info source: headers + infos daniel + log sheets
quality : ~ok

Map

DOY 334-343



Julian days : 30 nov. → 12 dec.

Season : Spring-Summer

GPS weeks : 1455 → 1457

*SITE Station Name AntHt Receiver Type Receiver SN Antenna Type Antenna SN

* North Chile Network November 2007

Station Name	AntHt	Receiver	Type	Receiver SN	Antenna Type	Antenna SN
BAN0	0.7980	DHPAB	TRIMBLE NETRS	4625209647	TRM41249.00	60194714
BAQ0	0.0850	DHPAB	TRIMBLE NETRS	4723133161	TRM41249.00	60195917
CHA0	0.9093	DHPAB	TRIMBLE NETRS	4702127018	TRM41249.00	60194743
DO10	0.9272	DHPAB	TRIMBLE NETRS	4702127018	TRM41249.00	60194743
DO20	0.6542	DHPAB	TRIMBLE NETRS	4720132692	TRM41249.00	60194582
DO30	0.4816	DHPAB	TRIMBLE NETRS	4720132692	TRM41249.00	60194582
DO40	0.6473	DHPAB	TRIMBLE NETRS	4723133169	TRM41249.00	601994634
DO50	1.1173	DHPAB	TRIMBLE NETRS	4723133169	TRM41249.00	601994634
DO60	1.0307	DHPAB	TRIMBLE NETRS	4702127018	TRM41249.00	60194743
GUA0	1.0410	DHPAB	TRIMBLE NETRS	4720132692	TRM41249.00	667307
JLP0	0.0850	DHPAB	TRIMBLE NETRS	4723133170	TRM41249.00	60194621
MEJ0	1.0934	DHPAB	TRIMBLE NETRS	4723133169	TRM41249.00	60194634
TO10	0.6324	DHPAB	TRIMBLE NETRS	4625209656	TRM41249.00	60145023
TO20	1.0376	DHPAB	TRIMBLE NETRS	4718131960	TRM41249.00	60194755
TO30	0.4199	DHPAB	TRIMBLE NETRS	4718131960	TRM41249.00	60194755
TO40	1.0327	DHPAB	TRIMBLE NETRS	4625209656	TRM41249.00	60194714
TO50	1.0297	DHPAB	TRIMBLE NETRS	4723133161	TRM41249.00	60195917
TO60	0.7136	DHPAB	TRIMBLE NETRS	4723133170	TRM41249.00	60194621
TO70	0.7920	DHPAB	TRIMBLE NETRS	4723133161	TRM41249.00	60195917
CO50	0.8089	DHPAB	TRIMBLE NETRS	4625209647	TRM41249.00	60194714
CO60	0.7801	DHPAB	TRIMBLE NETRS	4718131960	TRM41249.00	60194755

→ short rinex deleted from ftp

→ antenna height calculated from SLANT headers value.

→ PB01 corrupted for 336-343 and general pb with this point.
Excluded.

→ DO30 excluded for 336-337

Rinex source : LiA
x-ok ; O-deleted

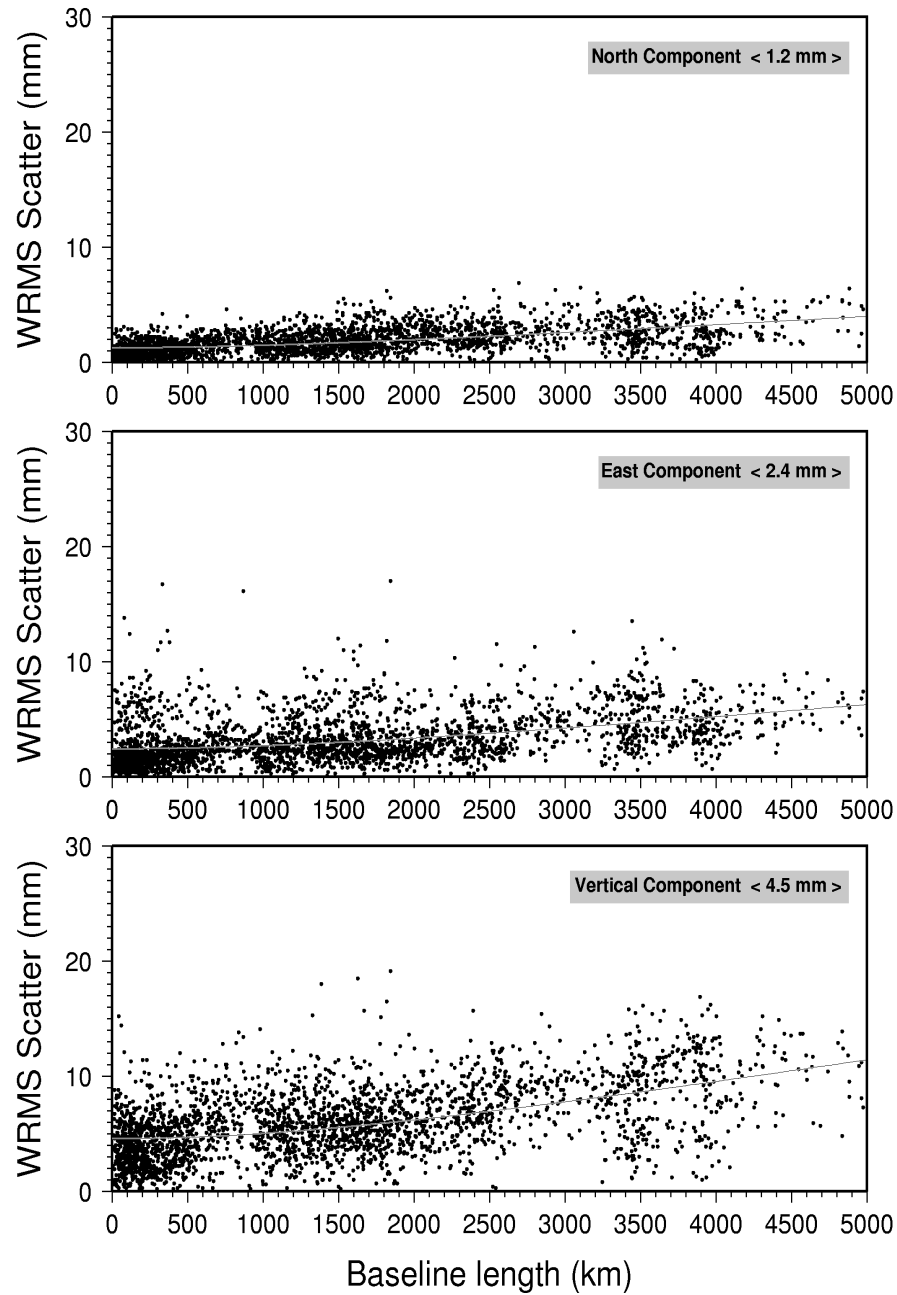
	334	335	336	337	338	339	340	341	342	343
do10	-	-	-	X	X	X	-	-	-	-
do20	-	-	-	o	X	X	-	-	-	-
do30	X	X	X	X	-	-	-	-	-	-
do40	-	-	-	X	X	X	-	-	-	-
do50	X	X	X	X	-	-	-	-	-	-
do60	-	X	X	X	-	-	-	-	-	-
jlp0	-	-	X	X	X	-	-	-	-	-
baq0	-	X	X	X	X	-	-	-	-	-
mej0	-	-	-	-	-	X	X	X	X	-
cha0	-	-	-	-	-	X	X	X	X	-
gua0	-	-	-	-	-	X	X	X	X	-
ban0	-	-	-	-	-	X	X	X	-	-
to10	-	-	X	X	X	X	X	-	-	-
to30	-	-	-	-	-	-	-	-	X	X
to40	-	-	-	-	-	-	-	-	X	X
to50	-	-	-	-	-	-	X	X	X	-
to60	-	-	-	-	X	X	X	X	-	-
to70	-	-	-	-	X	X	X	-	-	-
co50	-	X	X	X	X	-	-	-	-	-
co60	-	X	X	X	X	-	-	-	-	-
antc	X	X	X	X	X	X	X	X	X	X
areq	X	X	X	X	-	X	X	X	X	X
braz	X	X	X	X	X	X	X	X	X	X
brft	X	X	X	X	X	X	X	X	X	X
kour	X	X	X	X	X	X	X	X	X	X
lpgs	X	X	X	X	X	X	X	X	X	X
sant	X	X	X	X	X	X	X	X	X	X
rio2	X	X	X	X	X	X	X	X	X	X
ispa	X	X	X	X	X	X	X	X	X	X
glps	X	X	X	X	X	X	X	X	X	X
conz	X	X	X	X	X	X	X	X	X	X
lhcl	-	X	X	X	X	X	X	X	X	X
tucu	X	X	X	X	X	X	X	X	X	X
chpi	X	X	X	X	X	X	X	X	X	X
cfag	X	X	X	X	X	X	X	X	X	X
unsa	X	X	X	X	X	X	X	X	X	X

Rinex source : SIO x-ok ; O-deleted

	334	335	336	337	338	339	340	341	342	343
azul	X	X	X	X	X	X	X	X	X	X
meco	X	-	X	X	X	X	X	X	X	X
mzac	X	X	X	X	X	X	X	X	X	X
mzae	X	X	X	X	X	X	X	X	X	X
mzas	X	X	X	X	X	X	X	X	X	X
rwsn	X	X	X	X	X	X	X	X	X	X
tuc1	X	X	X	X	X	X	X	X	X	X
ucor	-	-	-	X	X	X	X	X	X	X
unro	X	X	X	X	X	X	X	X	X	X
unsj	X	X	X	X	X	X	X	X	X	X
vbca	X	X	X	X	X	X	X	X	X	X
cuib	X	X	X	X	X	X	X	X	X	X
maba	X	X	X	X	X	X	X	X	X	X
naus	X	X	X	X	X	X	X	X	X	X
poal	X	X	X	X	X	X	X	X	-	X
pove	X	X	X	X	X	X	X	X	X	X
savo	X	X	-	-	X	X	X	X	X	X
salu	X	X	X	X	X	X	X	X	X	X
riob	X	X	X	X	X	X	X	X	X	X
pmej	X	X	X	X	X	X	X	X	X	X
rado	-	-	-	-	-	-	-	-	o	o
urcu	-	-	-	-	X	X	X	X	X	X
uape	X	X	X	X	X	X	X	X	X	X
pcha	X	X	X	X	X	X	X	X	X	X
colc	X	X	X	X	X	X	X	X	X	X
utar	X	X	X	X	X	X	X	X	X	X
psga	X	X	X	X	X	X	X	X	X	X
ptre	X	X	X	X	X	X	X	X	X	X
pccl	X	X	X	X	X	X	X	X	X	X
atjn	X	X	X	X	X	X	X	X	X	X
chmz	X	X	X	X	X	X	X	X	X	X
crsc	X	X	X	X	X	X	X	X	X	X
ctrl	X	X	X	X	X	X	X	X	X	X
cdlc	X	X	X	X	X	X	X	X	X	X
cbaa	X	X	X	X	X	X	X	X	X	X
srgd	X	X	X	X	X	X	X	X	X	X
vlz1	X	X	X	X	X	X	X	X	X	X
mcla	X	X	X	X	X	X	X	X	X	X
jrgn	X	X	X	X	X	X	X	X	X	X
pb01	-	o	o	o	o	-	o	o	o	o
pb02	X	-	X	X	X	X	X	X	X	X
pb03	X	X	X	X	X	X	X	X	X	X
pb04	X	X	X	X	X	X	X	X	X	X
pb05	-	X	o	X	X	X	X	X	X	X

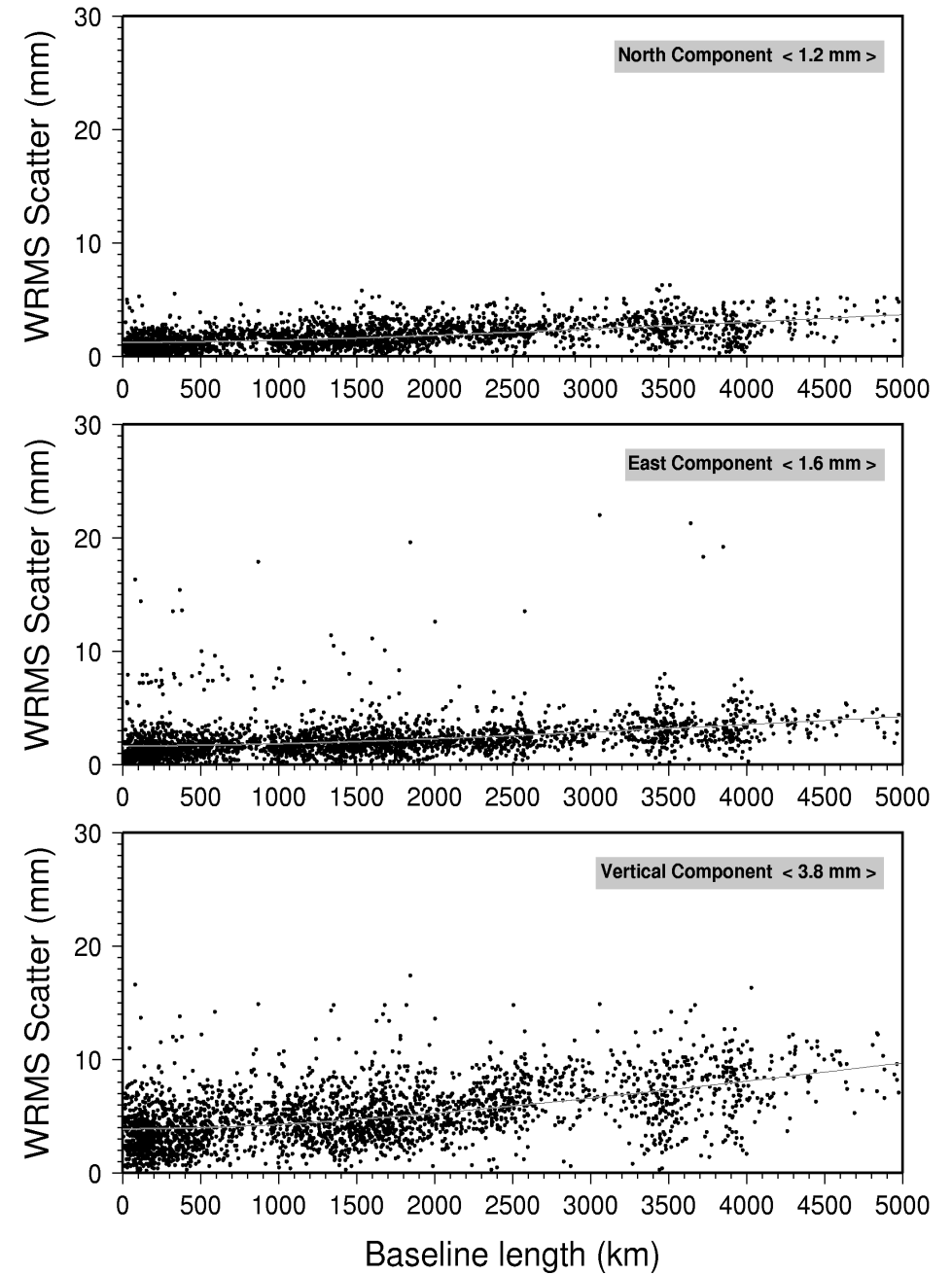
Repetabilities biases free

GDNORD 2007_2 – IGS orbits – biases free



Repetabilities biases fixed

GDNORD 2007_2 – IGS orbits – biases fixed

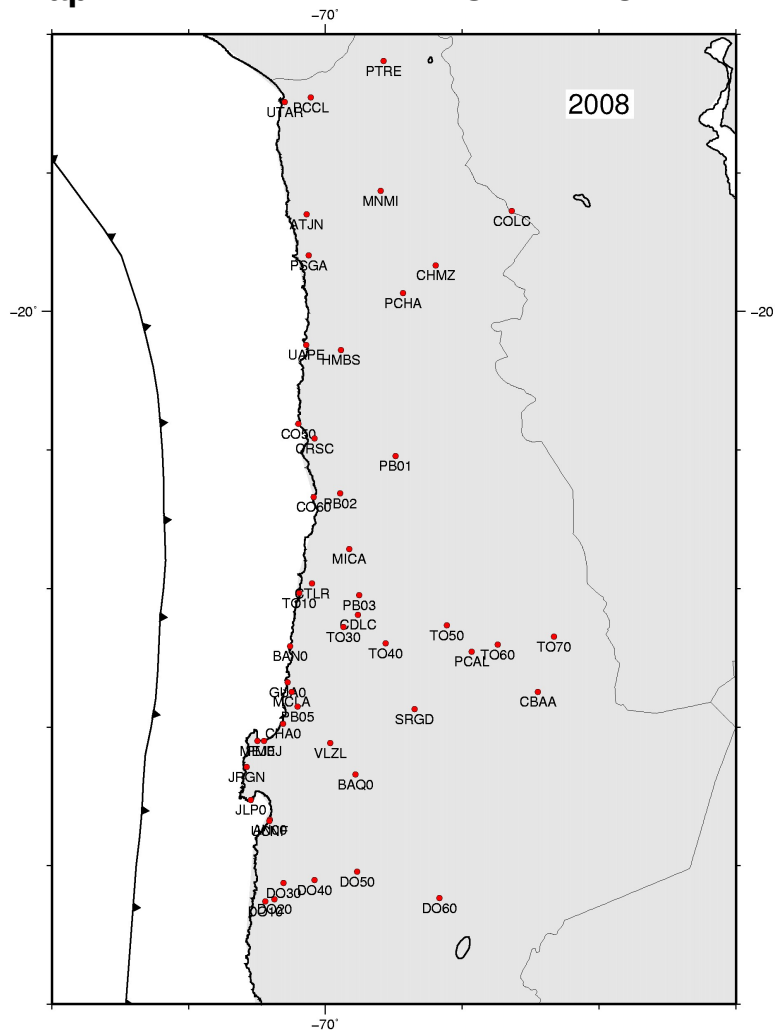


GPS campaign – 2008 – LiA

Station.info source: headers + infos daniel + log sheets
quality : ~ok

Map

DOY 172-181



Julian days : 20 juin. → 29 juin.

Season : Winter

GPS weeks : 1484 → 1486

*SITE Station Name AntHt Receiver Type Receiver SN Antenna Type Antenna SN

* North Chile Network Juin 2008

Station Name	AntHt	Receiver	Type	Receiver SN	Antenna Type	Antenna SN
BAN0	1.1532	ASHTECH	Z-X	ZE1200321056	ASH701975.01A	7656
BAQ0	0.0280	ASHTECH	Z-X	ZE1200348006	ASH701975.01A	7913
CHA0	0.9560	TRIMBLE	NETRS	4720132690	TRM41249.00	60194621
DO20	0.8059	ASHTECH	Z-X	ZE1200321072	ASH701975.01A	7737
DO30	0.4453	ASHTECH	Z-X	ZE1200526048	ASH701975.01A	8724
DO40	0.6324	ASHTECH	Z-X	ZE1200526051	ASH701975.01A	8727
DO50	0.9988	ASHTECH	Z-X	ZE120024121	ASH701975.01A	7163
DO60	1.1931	ASHTECH	Z-X	ZE1200321056	ASH701975.01A	7656
GUA0	0.8516	TRIMBLE	NETRS	4720132692	TRM41249.00	60195917
JLP0	0.0280	TPS	GB-1000	T224799	TPSPG_A1+GP	308-5553
MEJ0	1.0595	ASHTECH	Z-X	ZE1200526047	ASH701975.01A	8918
TO10	0.8685	ASHTECH	Z-X	ZE1200526048	ASH701975.01A	8724
TO20	1.2039	ASHTECH	Z-X	ZE120024121	ASH701975.01A	7163
TO30	0.5278	TRIMBLE	NETRS	4720132692	TRM41249.00	60195917
TO40	0.9389	TRIMBLE	NETRS	4720132692	TRM41249.00	60195917
TO4G	0.0280	ASHTECH	Z-X	ZE1200452004	ASH701975.01A	7112
TO50	1.0705	ASHTECH	Z-X	ZE1200321072	ASH701975.01A	7737
TO60	0.7771	ASHTECH	Z-X	ZE1200526051	ASH701975.01A	8727
TO70	0.9481	ASHTECH	Z-X	ZE1200452004	ASH701975.01A	7112
CO50	0.8278	ASHTECH	Z-X	ZE120024130	ASH701975.01A	7159
CO60	1.0546	TRIMBLE	NETRS	4720132690	TRM41249.00	60194621
AAA1	1.0655	ASHTECH	Z-X	ZE1200526047	ASH701975.01A	8918
AAA2	1.1861	ASHTECH	Z-X	ZE120024130	ASH701975.01A	7159
AAA3	0.9690	ASHTECH	Z-X	ZE1200321072	ASH701975.01A	7737
BBB0	1.1816	ASHTECH	Z-X	ZE1200321056	ASH701975.01A	7656
BBB1	1.2100	ASHTECH	Z-X	ZE1200526048	ASH701975.01A	8724
CCC0	1.2578	ASHTECH	Z-X	ZE120024121	ASH701975.01A	7163
CCC1	1.0834	ASHTECH	Z-X	ZE1200526051	ASH701975.01A	8727

Notes / Issues

→ antenna height calculated from SLANT headers value, double checked with log sheets.

→ use of precalculated rinex, excepted for COLC whose date was wrong

→ PB03 cannot pass autcln whatever coordinates used

Rinex source : LiA x-ok ; O-deleted

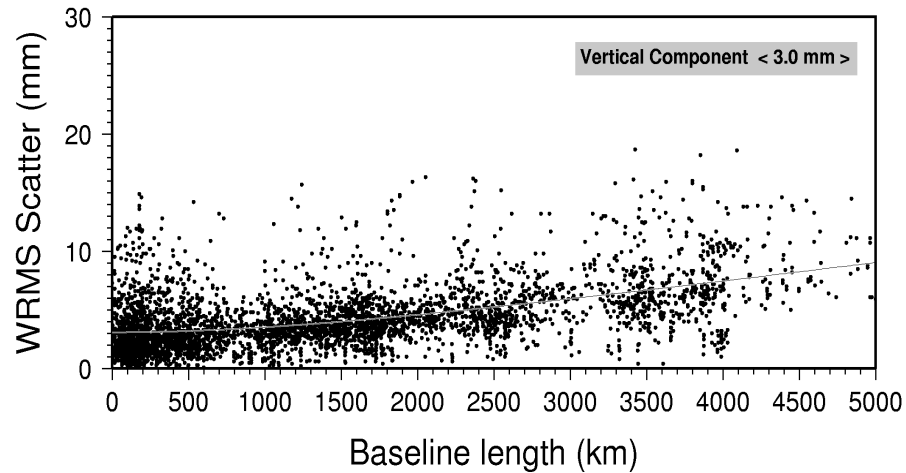
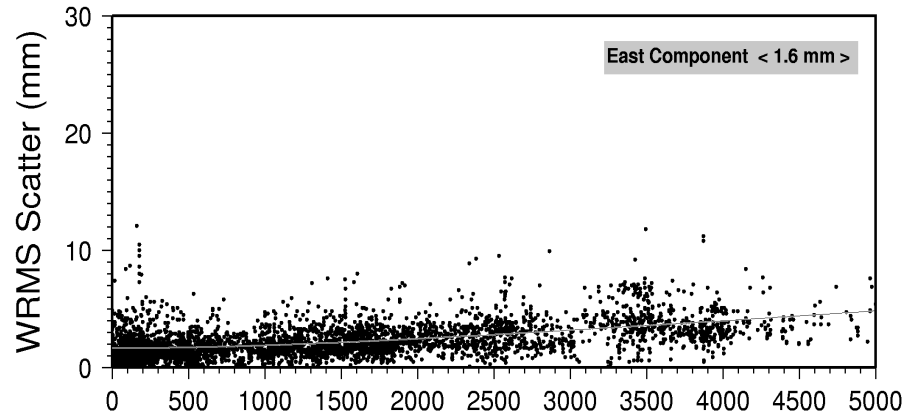
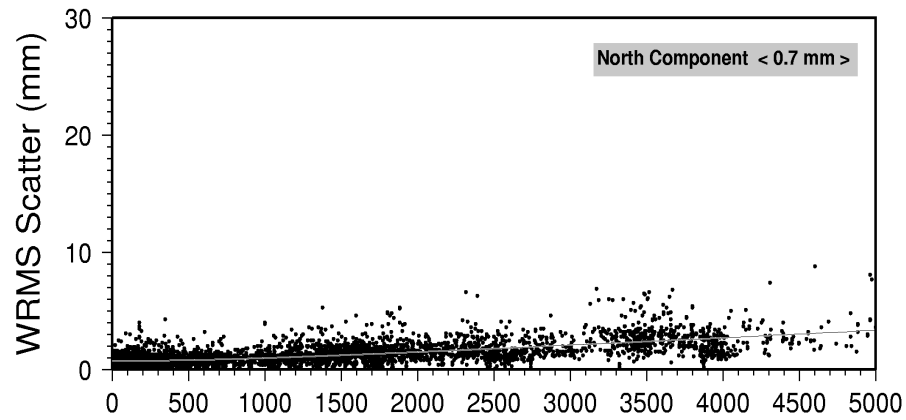
	172	173	174	175	176	177	178	179	180	181
aaa1	X	X	X	-	-	-	-	-	-	-
aaa2	X	X	X	-	-	-	-	-	-	-
aaa3	X	X	X	-	-	-	-	-	-	-
bbb0	X	X	X	-	-	-	-	-	-	-
bbb1	X	X	X	-	-	-	-	-	-	-
ccc0	X	X	X	-	-	-	-	-	-	-
ccc1	X	X	X	-	-	-	-	-	-	-
an00	-	X	X	X	-	-	-	-	-	-
do20	-	-	X	X	X	-	-	-	-	-
do30	-	-	X	X	X	-	-	-	-	-
do40	-	-	X	X	X	-	-	-	-	-
do50	-	-	X	X	X	-	-	-	-	-
do60	-	-	X	X	X	-	-	-	-	-
jlp0	-	-	-	X	X	X	X	X	X	X
baq0	X	X	X	X	X	X	X	-	-	-
mej0	-	-	-	X	X	X	X	X	X	X
cha0	-	X	X	X	-	-	-	-	-	-
gua0	-	X	X	X	-	-	-	-	-	-
ban0	-	-	-	X	X	X	-	-	-	-
to10	-	-	-	-	-	X	X	X	-	-
to30	-	-	-	-	-	X	X	X	-	-
to40	-	-	-	-	-	X	X	-	-	-
to50	-	-	-	-	-	-	X	X	-	-
to60	-	-	-	-	-	-	X	X	-	-
to70	-	-	-	-	-	-	X	X	X	-
co50	-	-	-	X	X	X	X	-	-	-
co60	-	-	-	X	X	X	X	X	-	-
antc	X	X	X	X	X	X	X	X	X	X
areq	X	X	X	X	X	X	X	X	X	X
braz	X	X	X	X	X	X	X	X	X	X
brft	X	X	X	X	X	X	X	X	X	X
kour	X	X	X	X	X	X	X	X	X	X
lpgs	X	X	X	X	X	X	X	X	X	X
sant	X	X	X	X	X	X	X	X	X	X
rio2	X	X	X	X	X	X	X	X	X	X
ispa	X	X	X	X	X	X	X	X	X	X
conz	X	X	X	X	X	X	X	X	X	X
lhcl	X	X	X	X	X	X	X	X	X	X
tucu	X	X	X	X	X	X	X	X	X	X
chpi	X	X	X	X	X	X	X	X	X	X
cfag	X	X	X	X	X	X	X	X	X	X
unsa	X	X	X	X	X	X	X	X	X	X
azul	X	X	X	X	X	X	X	X	X	X
meco	X	X	X	X	X	X	X	X	X	X
mzac	X	X	X	X	X	X	X	X	X	X
mzae	X	X	X	X	X	X	X	X	X	X
mzas	X	X	X	X	X	X	X	X	X	X
rwsn	X	X	X	X	X	X	X	X	X	X
tucl	X	X	X	X	X	X	X	X	X	X

Rinex source : SIO x-ok ; O-deleted

	172	173	174	175	176	177	178	179	180	181
ucor	-	X	X	X	X	X	X	X	X	X
unro	X	X	X	X	X	X	X	X	X	X
unsj	X	X	X	X	X	X	X	X	X	X
vbca	X	X	X	X	X	X	X	X	X	X
cuib	X	X	X	X	X	X	X	X	X	X
maba	X	X	X	X	X	X	X	X	X	X
mscg	X	X	X	X	X	X	X	X	X	X
naus	X	X	X	X	X	X	X	X	X	X
poal	X	X	-	X	X	X	X	X	X	X
pove	X	-	-	X	X	X	X	X	X	X
savo	X	X	X	X	X	X	X	X	X	X
topl	X	X	X	X	X	X	X	X	X	X
salu	X	X	X	X	X	X	X	X	X	-
ceeu	X	X	X	X	X	X	X	X	X	X
riob	X	X	X	X	X	X	X	X	X	X
pmej	X	X	X	X	X	X	X	X	X	X
pcal	X	X	X	X	X	X	X	X	X	-
rado	X	X	X	X	X	X	X	X	X	X
urcu	X	X	X	X	X	X	X	X	X	X
mica	X	X	X	X	X	X	X	X	X	X
uape	X	X	X	X	X	X	X	X	X	X
pcha	X	X	X	X	X	X	X	X	X	X
colc	X	X	X	X	X	X	X	X	X	X
mnmi	X	X	X	X	X	X	X	X	X	X
utar	X	X	X	X	X	X	X	X	X	X
psga	X	X	X	X	X	X	X	X	X	X
hmbS	X	X	X	X	X	X	X	X	X	X
ucnf	X	X	X	X	X	X	X	X	X	X
vall	X	X	X	X	X	X	X	X	X	X
ptre	X	X	X	X	X	X	X	X	X	X
pccl	X	X	X	X	X	X	X	X	X	X
atjn	X	X	X	X	X	X	X	X	X	X
chmz	X	X	X	X	X	X	X	X	X	X
crsc	X	X	X	X	X	X	X	X	X	X
ctlr	X	X	X	X	X	X	X	X	X	X
cdlc	X	X	X	X	X	X	X	X	X	X
cbaa	X	X	X	X	X	X	X	X	X	X
srgd	X	X	X	X	X	X	X	X	X	X
vlzl	X	X	X	X	X	X	X	X	X	X
mcla	X	X	X	X	X	X	X	X	X	X
jrgn	X	X	X	X	X	X	X	X	X	X
pb01	X	X	X	X	X	X	X	X	X	X
pb02	X	X	X	X	X	X	X	X	X	X
pb03	X	X	X	X	X	X	X	X	X	X
pb05	X	X	X	X	X	X	X	X	X	X

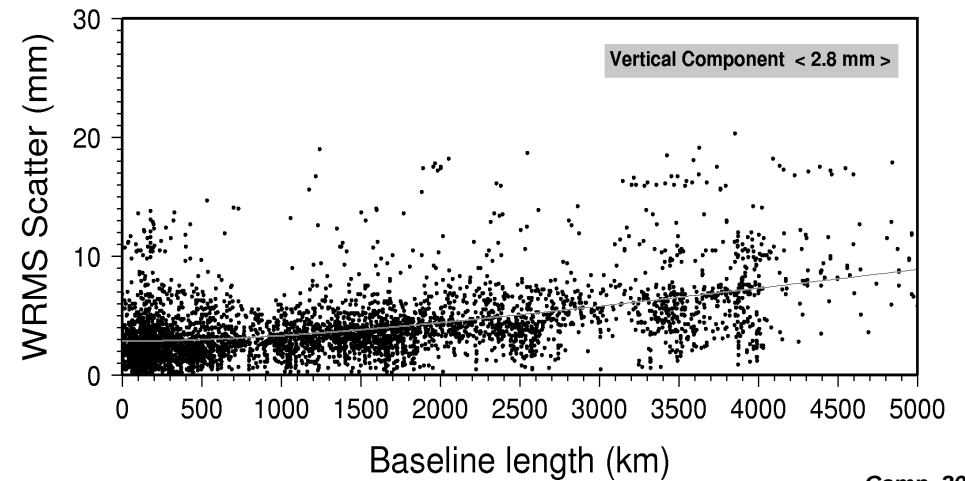
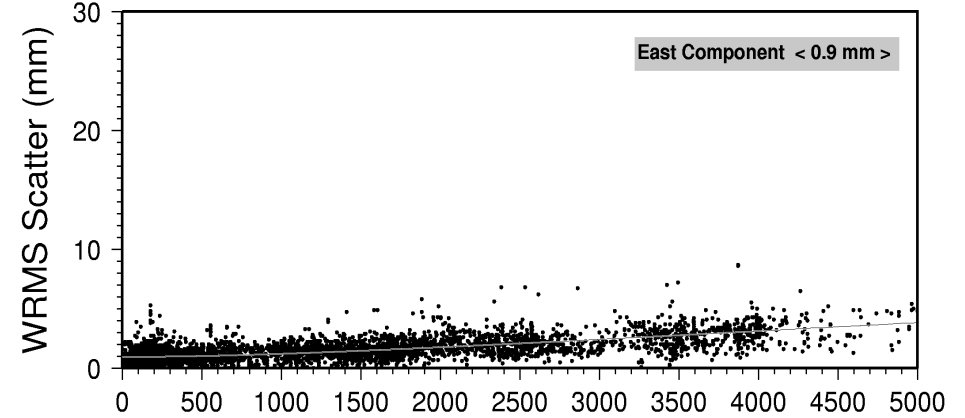
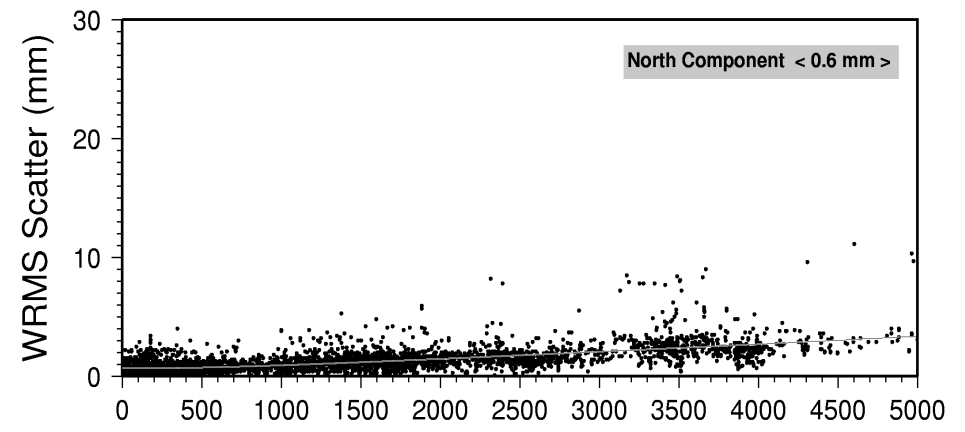
Repetabilities biases free

GDNORD 2008 – IGS orbits – biases free



Repetabilities biases fixed

GDNORD 2008 – IGS orbits – biases fixed

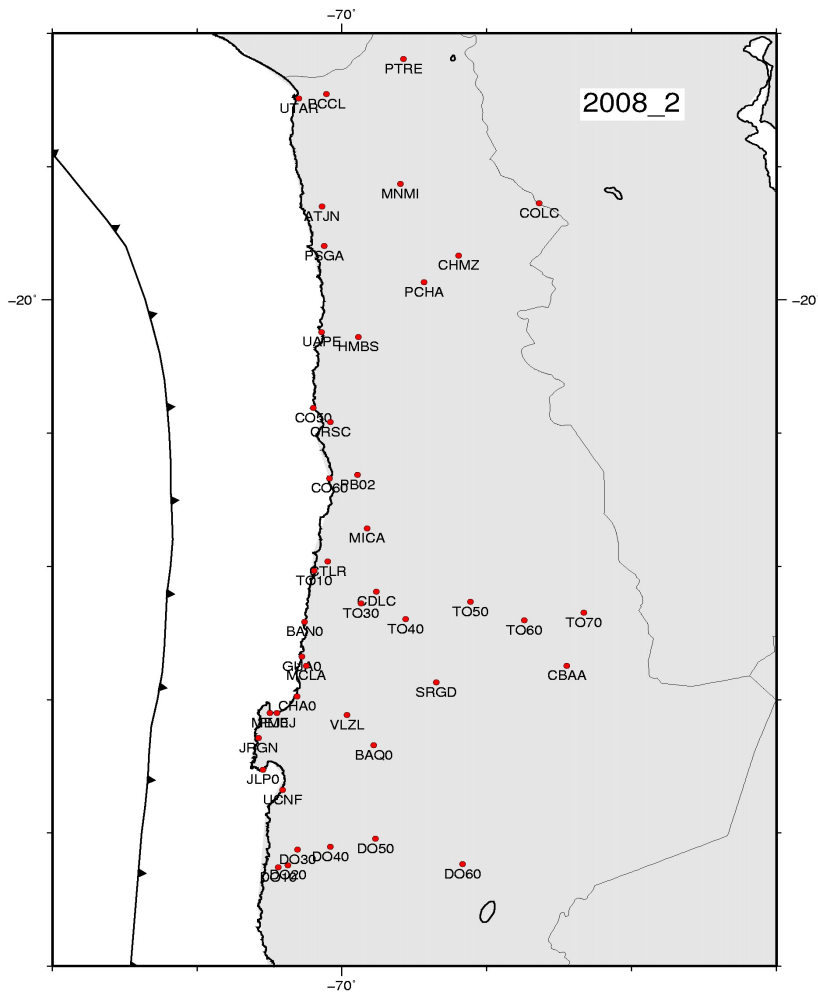


GPS campaign – 2008_2 – LiA

Station.info source: headers + infos daniel + log sheets
quality : ~ok

Map

DOY 328-334



*SITE	Station Name	AntHt	Receiver	Type	Receiver SN	Antenna Type	Antenna SN
* North Chile Network Nov 2008							
BAN0	1.1859	DHPAB	ASHTECH	Z-X	ZE1200321056	ASH701975.01A	7656
BAQ0	0.0280	DHPAB	ASHTECH	Z-X	ZE1200348013	ASH701975.01A	6010
CHA0	0.9228	DHPAB	ASHTECH	Z-X	ZE120021207	ASH701975.01A	7916
DO10	1.0635	DHPAB	ASHTECH	Z-X	ZE120021212	ASH701975.01A	7139
DO20	0.7880	DHPAB	ASHTECH	Z-X	ZE120014921	ASH701975.01A	8724
DO30	0.6781	DHPAB	ASHTECH	Z-X	ZE120020324	ASH701975.01A	8764
DO40	0.5891	DHPAB	ASHTECH	Z-X	ZE120021205	ASH701975.01A	7913
DO50	0.8635	DHPAB	ASHTECH	Z-X	ZE120014922	ASH701975.01A	8918
DO60	0.9208	DHPAB	ASHTECH	Z-X	ZE1200526047	ASH701975.01A	8919
GUA0	1.1187	DHPAB	ASHTECH	Z-X	ZE120024135	ASH701975.01A	7160
JLP0	0.0280	DHPAB	ASHTECH	Z-X	ZE1200321056	ASH701975.01A	7656
MEJ0	1.0072	DHPAB	ASHTECH	Z-X	ZE120014921	ASH701975.01A	8724
TO10	0.8937	DHPAB	ASHTECH	Z-X	ZE120024121	ASH701975.01A	7163
TO30	0.5729	DHPAB	ASHTECH	Z-X	ZE120024130	ASH701975.01A	7159
TO40	0.0280	DHPAB	ASHTECH	Z-X	ZE1200321072	ASH701975.01A	7737
TO50	0.8544	DHPAB	ASHTECH	Z-X	ZE120023623	ASH701975.01A	8579
TO60	0.6488	DHPAB	ASHTECH	Z-X	ZE12004452013	ASH701975.01A	7112
TO70	0.7598	DHPAB	ASHTECH	Z-X	ZE1200348005	ASH701975.01A	6435
CO50	0.8756	DHPAB	ASHTECH	Z-X	ZE1200452013	ASH701975.01A	7112
CO60	0.9269	DHPAB	ASHTECH	Z-X	ZE120023623	ASH701975.01A	8579

Notes / Issues

→ antenna height calculated from SLANT headers value, double checked with log sheets.

→ use of precalculated rinex, excepted for COLC whose date was wrong

→ PB02 available but verystrange. Not used.

Julian days : 20 nov. → 29 nov.

Season : Spring-Summer

GPS weeks : 1507 → 1507

Rinex source : LiA x-ok ; O-deleted

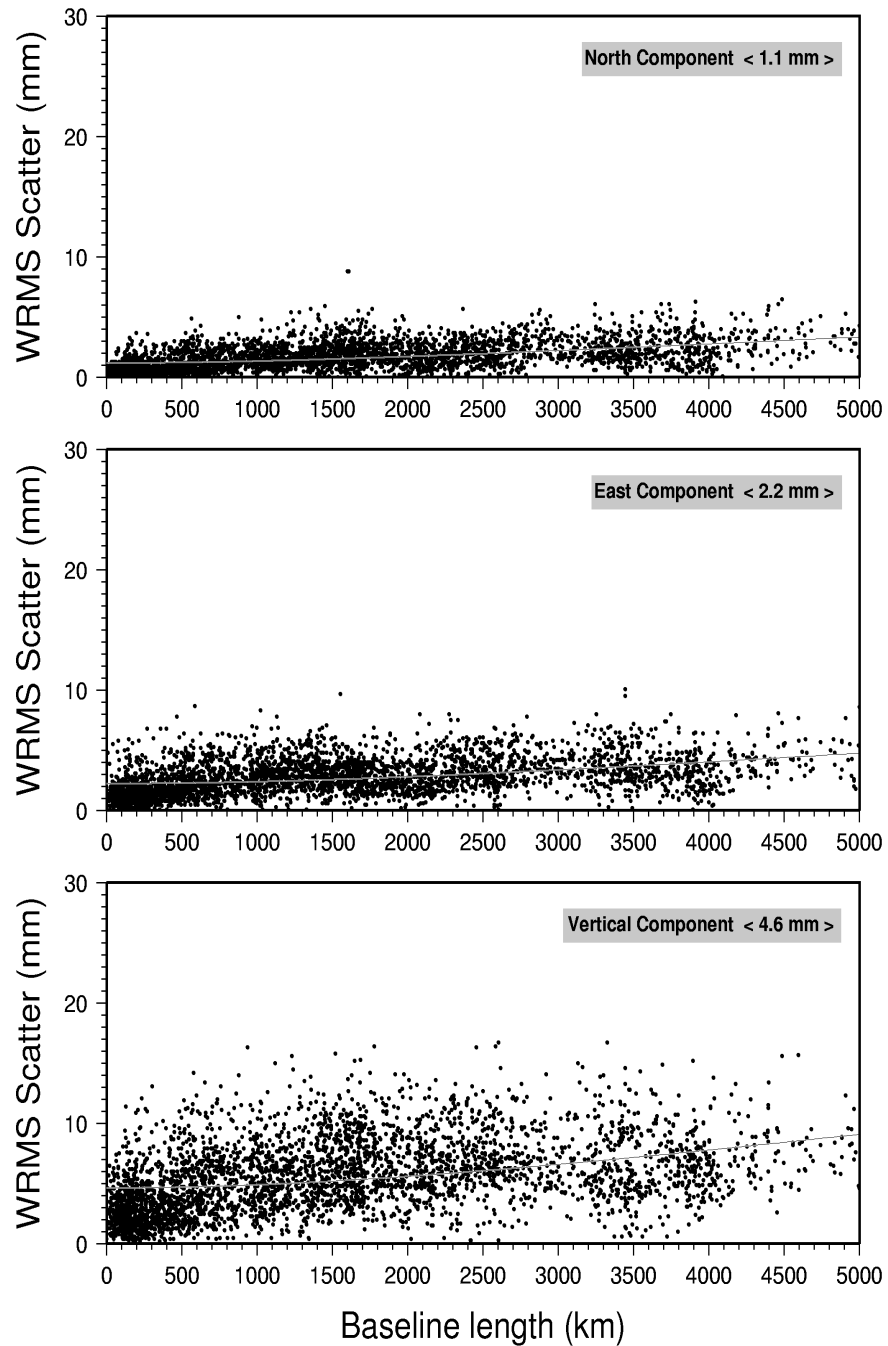
	328	329	330	331	332	333	334
do10	X	o	X	X	X	X	X
do20	X	X	X	-	-	-	-
do30	X	X	X	X	-	-	-
do40	-	X	X	X	-	-	-
do50	-	X	X	X	-	-	-
do60	-	X	X	X	-	-	-
jlp0	X	X	X	X	X	X	-
baq0	-	o	X	X	X	X	-
mej0	-	-	-	X	X	X	-
cha0	-	X	X	X	X	X	-
gua0	-	X	X	X	X	-	-
ban0	-	X	X	X	X	-	-
to10	-	X	X	X	X	-	-
to30	-	X	X	X	X	-	-
to40	-	X	X	X	X	-	-
to50	X	X	X	-	-	-	-
to60	X	X	X	-	-	-	-
to70	X	X	X	-	-	-	-
co50	-	-	-	X	X	-	-
co60	-	-	-	X	X	-	-
antc	X	X	X	X	X	X	X
areq	X	X	X	X	X	X	X
braz	X	X	X	X	X	X	X
brft	X	X	X	X	X	X	X
kour	X	X	X	X	X	X	X
lpgs	X	X	X	X	X	X	X
sant	X	X	X	X	X	X	X
rio2	X	X	X	X	X	X	X
ispa	X	X	X	X	X	X	X
glps	X	X	X	X	X	X	X
copo	X	X	X	X	X	X	X
conz	X	X	X	X	X	X	X
tucu	X	X	X	X	X	X	X
ufpr	X	X	X	X	X	X	X
chpi	X	X	X	X	X	X	X
cfag	X	X	X	X	X	X	X
unsa	X	X	X	X	X	X	-
alum	X	-	X	X	X	X	X
azul	X	X	X	X	X	X	X
cata	X	X	-	X	X	X	X
esqu	X	X	X	X	X	X	X
meco	X	X	X	-	X	-	-
mzac	X	X	X	X	X	X	X
mzae	X	X	X	X	X	X	X
mzas	X	X	X	X	X	X	X
rwsn	X	X	X	X	X	X	X

Rinex source : SIO x-ok ; O-deleted

	328	329	330	331	332	333	334
srlp	X	X	X	X	X	X	X
tero	X	X	X	X	X	X	X
ucor	X	X	-	X	X	X	X
unro	X	X	X	X	X	X	X
unsj	X	X	X	X	X	X	X
vbca	X	X	X	X	X	X	X
cuib	X	X	X	X	X	X	X
maba	X	X	X	X	X	X	X
mscg	X	X	X	X	X	X	X
naus	X	X	X	X	X	X	X
poal	X	X	X	X	X	X	X
pove	X	X	X	X	X	X	X
savo	X	X	X	X	X	X	X
topl	X	X	X	X	X	X	X
salu	X	X	X	X	X	X	X
ceeu	X	X	X	X	X	X	X
riob	X	X	X	X	X	X	X
pmej	-	X	X	X	X	X	X
rado	X	X	X	X	X	X	X
urcu	X	X	-	-	-	-	-
mica	X	X	X	X	X	X	X
uape	X	X	X	X	X	X	X
pcha	X	X	X	X	X	X	X
colc	X	X	X	X	X	X	X
mnmi	X	X	X	X	X	X	X
utar	X	X	X	X	X	-	-
psga	X	X	X	X	X	X	X
hmbs	X	X	X	X	X	X	X
ucnf	X	X	X	X	X	X	X
vall	X	X	X	X	X	X	X
ptre	X	X	X	X	X	X	X
pccl	X	X	X	X	X	X	X
atjn	X	X	X	X	X	X	X
chmz	X	X	X	X	X	X	X
crsc	X	X	X	X	X	X	X
ctlr	X	X	X	X	X	X	X
cdlc	X	X	X	X	X	X	X
cbaa	X	X	X	X	X	X	X
srgd	X	X	X	X	X	X	X
vlzl	X	X	X	X	X	X	X
mcla	X	X	X	X	X	X	X
jrgn	X	X	X	X	X	X	X

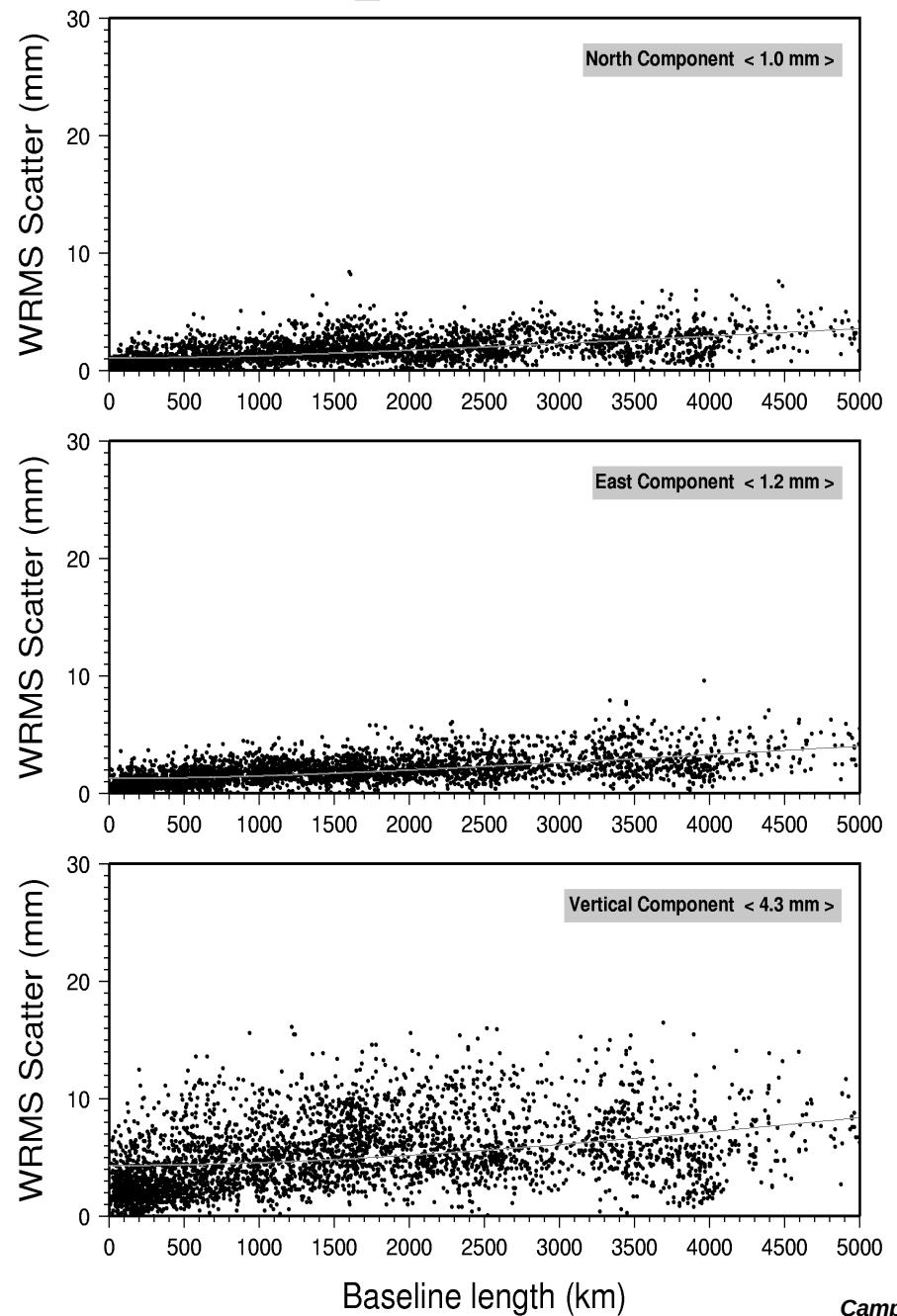
Repetabilities biases free

GDNORD 2008_2 – IGS orbits – biases free



Repetabilities biases fixed

GDNORD 2008_2 – IGS orbits – biases fixed



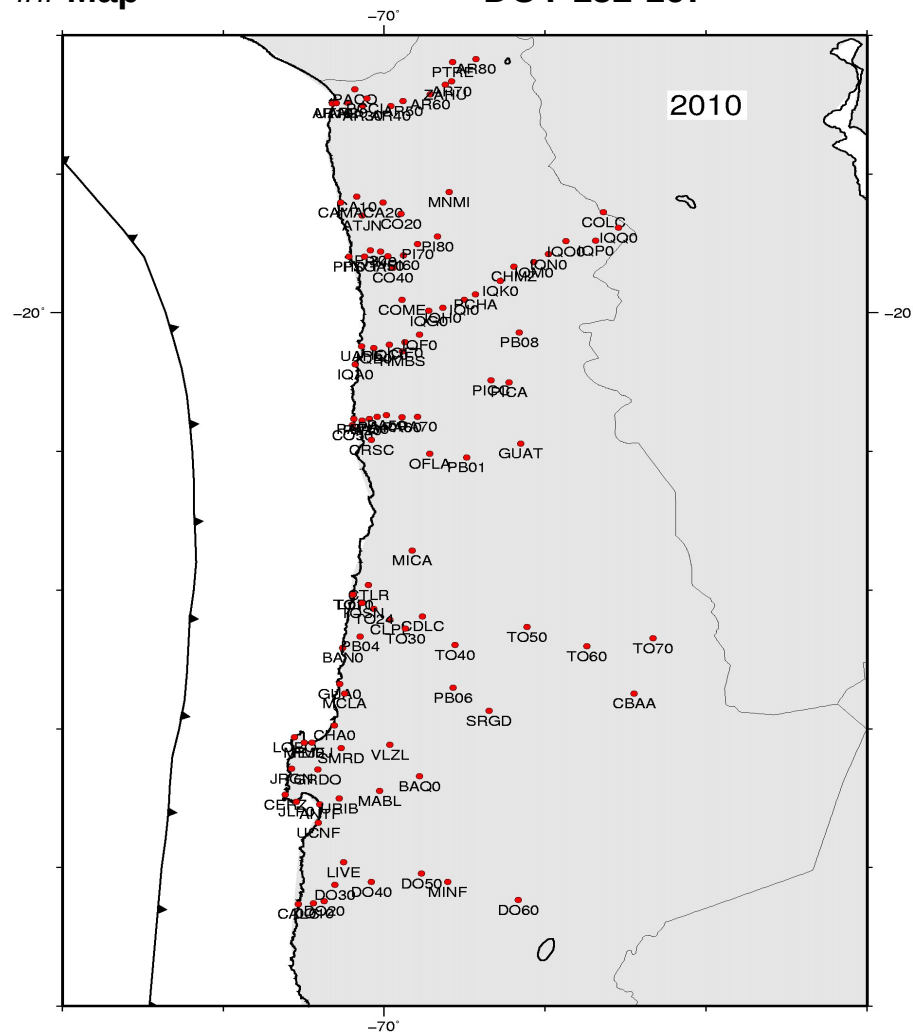
GPS campaign – 2010 – LiA

Notes / Issues

- TUC1 rejected
- AR80 very small rinex with 20s sampling... not used
- PB01 available but very strange. Not used.

Map

DOY 152-167



Julian days : 01 juin. → 16 juin.

Season : Winter

GPS weeks : 1586 → 1588

Station.info source : log sheets quality : good for southern Tocopilla / ~ from Iquique to Arica

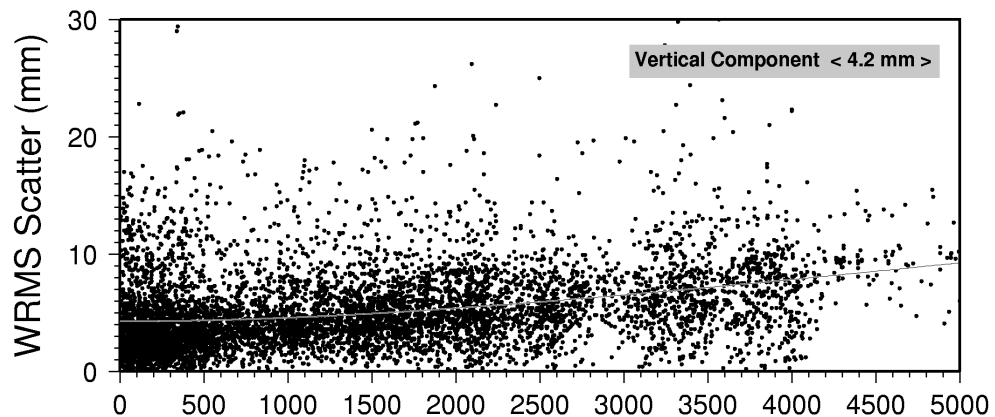
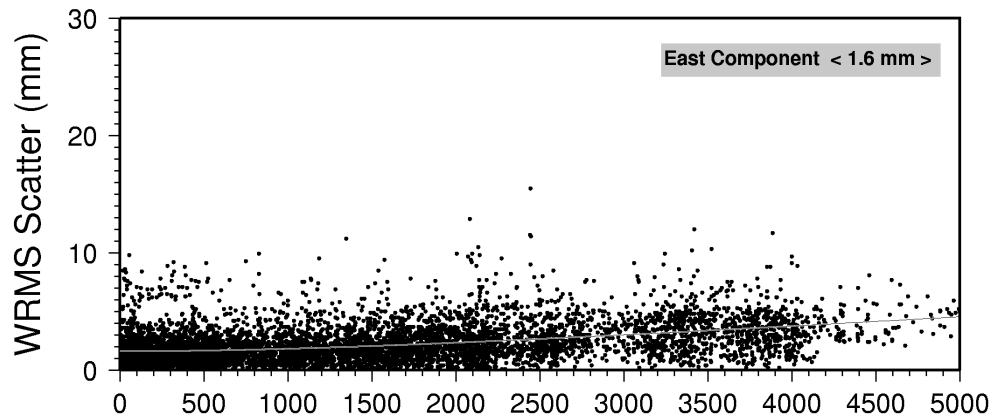
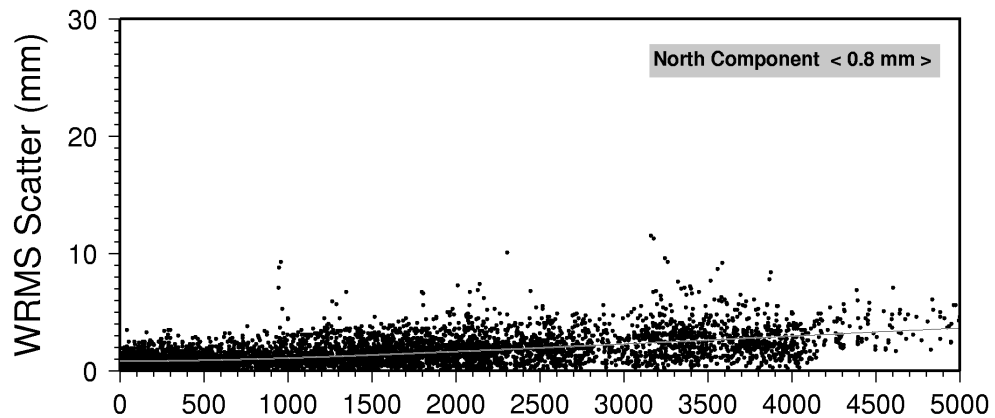
*SITE	Station Name	AntHt	Receiver Type	Receiver SN	Antenna Type	Antenna SN	*SITE	Station Name	AntHt	Receiver Type	Receiver SN	Antenna Type	Antenna SN
* Antofagasta Network June 2010													
ANTF	0.7588	DHPAB	ASHTECH Z-X	ZE120024130	ASH701975.01A	7159_LIA4	PATI	0.0280	DHPAB	TPS GB-1000	T225693	TPSPG_A1+GP30810294	
BAN0	1.1122	DHPAB	ASHTECH Z-X	ZE1200321056	ASH701975.01A	7656_INSU44	PA20	0.6550	DHPAB	TPS GB-1000	T225693	TPSPG_A1+GP30810294_W12	
BAQ0	0.0280	DHPAB	ASHTECH Z-X	ZE120024135	ASH701975.01A	7160	PA30	0.0440	DHPAB	TPS GB-1000	T224398	TPSPG_A1+GP3100695	
CALC	0.0670	DHPAB	ASHTECH Z-X	ZE1200324053	ASH701975.01A	8940	PA40	0.7280	DHPAB	TPS GB-1000	T224398	TPSPG_A1+GP3083835_W37	
CERZ	0.0440	DHPAB	ASHTECH Z-X	ZE120024307	ASH701975.01A	7192	PA50	0.0440	DHPAB	ASHTECH Z-X	ZE120030733	ASH701975.01A	7914
CHA0	0.8549	DHPAB	ASHTECH Z-X	ZE120024130	ASH701975.01A	7159_INSU43	PA60	0.0440	DHPAB	ASHTECH Z-X	ZE120023615	ASH701975.01A	6419
CLPL	0.0440	DHPAB	ASHTECH Z-X	ZE1200348019	ASH701975.01A	8918	PA70	0.0440	DHPAB	ASHTECH Z-X	ZE120021205	ASH701975.01A	7139
DO10	0.8902	DHPAB	ASHTECH Z-X	ZE120024130	ASH701975.01A	7159_LIA4	PI10	0.0440	DHPAB	TPS GB-1000	T225693	TPSPG_A1+GP30810294	
DO20	0.4958	DHPAB	ASHTECH Z-X	ZE120024307	ASH701975.01A	7192_INSU44	PI30	0.0440	DHPAB	TPS GB-1000	T224398	TPSPG_A1+GP3083835	
DO30	0.7507	DHPAB	ASHTECH Z-X	ZE1200321056	ASH701975.01A	7656_INSU43	PI40	0.0440	DHPAB	TPS GB-1000	T224398	TPSPG_A1+GP308-3835	
DO40	0.5679	DHPAB	ASHTECH Z-X	ZE120024135	ASH701975.01A	7160_LIA5	PI50	0.0440	DHPAB	TPS GB-1000	TPSPG_A1+GP	308-10155	
DO50	1.0996	DHPAB	ASHTECH Z-X	ZE120024121	ASH701975.01A	7163_LIA3	PI60	0.0440	DHPAB	TPS GB-1000	T224396	TPSPG_A1+GP310-1282	
DO60	0.9339	DHPAB	ASHTECH Z-X	ZE1200348019	ASH701975.01A	8918_LIA2	PI70	0.0440	DHPAB	ASHTECH Z-X	ZE1200-----	ASH701975.01A	----
GRDO	0.0440	DHPAB	ASHTECH Z-X	ZE120024307	ASH701975.01A	7192	PI80	0.0440	DHPAB	ASHTECH Z-X	ZE1200348013	ASH701975.01A	7485
GUA0	1.0324	DHPAB	ASHTECH Z-X	ZE120024130	ASH701975.01A	7159_INSU43	IQA0	0.8951	DHPAB	TPS GB-1000	T225154	TPSPG_A1+GP30810155_W33	
JLPO	0.0280	DHPAB	ASHTECH Z-X	ZE1200321056	ASH701975.01A	7656	IQB0	0.0650	DHPAB	ASHTECH Z-X	ZE120021205	ASH701975.01A	7139
LIVE	0.0280	DHPAB	ASHTECH Z-X	ZE120024135	ASH701975.01A	7160	IQCO	0.0650	DHPAB	ASHTECH Z-X	ZE120023615	ASH701975.01A	6419
LOBO	0.0440	DHPAB	ASHTECH Z-X	ZE1200348019	ASH701975.01A	8918	IQE0	1.0163	DHPAB	ASHTECH Z-X	ZE120030733	ASH701975.01A	7914_W12
MABL	0.0280	DHPAB	ASHTECH Z-X	ZE1200321065	ASH701975.01A	7737	IQF0	1.0006	DHPAB	TPS GB-1000	T224398	TPSPG_A1+GP3083835_W33	
MEJ0	0.9771	DHPAB	ASHTECH Z-X	ZE120024121	ASH701975.01A	7163_LIA2	IQG0	0.0670	DHPAB	ASHTECH Z-X	ZE120021205	ASH701975.01A	7139
MINF	0.0280	DHPAB	ASHTECH Z-X	ZE1200321065	ASH701975.01A	7737	IQH0	0.0640	DHPAB	ASHTECH Z-X	ZE120030733	ASH701975.01A	7914
SMRD	0.0440	DHPAB	ASHTECH Z-X	ZE1200321056	ASH701975.01A	7656	IQI0	0.6956	DHPAB	TPS GB-1000	T224396	TPSPG_A1+GP3101282_W33	
TOPI	0.0670	DHPAB	ASHTECH Z-X	ZE120024121	ASH701975.01A	7163	IQK0	0.9886	DHPAB	TPS GB-1000	TPSPG_A1+GP	30910155_W37	
TO10	1.0123	DHPAB	ASHTECH Z-X	ZE1200321065	ASH701975.01A	7737_LIA2	IQM0	0.8931	DHPAB	TPS GB-1000	T225693	TPSPG_A1+GP30810294_W12	
TOSN	0.0440	DHPAB	ASHTECH Z-X	ZE1200324053	ASH701975.01A	8940	IQN0	0.8216	DHPAB	TPS GB-1000	T225693	TPSPG_A1+GP30810294_W12	
TO24	0.0450	DHPAB	ASHTECH Z-X	ZE120024307	ASH701975.01A	7192_TP	IQO0	1.0107	DHPAB	TPS GB-1000	TPSPG_A1+GP	30810155_W33	
TO30	0.7023	DHPAB	ASHTECH Z-X	ZE120024135	ASH701975.01A	7160_LIA5	IQP0	1.0137	DHPAB	TPS GB-1000	T225693	TPSPG_A1+GP30810294	
TO40	1.3344	DHPAB	ASHTECH Z-X	ZE1200321065	ASH701975.01A	7737_LIA2	IQQ0	0.8655	DHPAB	ASHTECH Z-X	ZE1200348013	ASH701975.01A	7485_W40
TO50	1.1965	DHPAB	ASHTECH Z-X	ZE120024130	ASH701975.01A	7159_INSU43	AR10	0.0750	DHPAB	ASHTECH Z-X	ZE120023615	ASH701975.01A	6419
TO60	1.1307	DHPAB	ASHTECH Z-X	ZE1200321056	ASH701975.01A	7656_LIA4	AR20	0.9956	DHPAB	TPS GB-1000	T224398	TPSPG_A1+GP308-3835_W12	
TO70	1.0042	DHPAB	ASHTECH Z-X	ZE120021207	ASH701975.01A	7930_INSU44	AR30	0.0540	DHPAB	ASHTECH Z-X	ZE12007139	ASH701975.01A	21205 ?
URIB	0.0280	DHPAB	ASHTECH Z-X	ZE1200324053	ASH701975.01A	8940	AR40	0.0440	DHPAB	TPS GB-1000	T225693	TPSPG_A1+GP308-10294	
* Arica/Iquique Network June 2010													
CA10	0.0390	DHPAB	ASHTECH Z-X	ZE1200348013	ASH701975.01A	7485	AR50	0.9982	DHPAB	ASHTECH Z-X	ZE120021205	ASH701975.01A	7139_W33
CA20	0.0440	DHPAB	ASHTECH Z-X	ZE120030733	ASH701975.01A	7914	AR60	0.0440	DHPAB	TPS GB-1000	T224396	TPSPG_A1+GP310-1282	
CO20	0.9564	DHPAB	TPS GB-1000	TPSPG_A1+GP	308-10155_W40		AR70	0.0590	DHPAB	ASHTECH Z-X	ZE120030733	ASH701975.01A7	914 ORIENTED SOUTH
CO40	0.9761	DHPAB	ASHTECH Z-X	ZE120023615	ASH701975.01A	6419_W37	AR80	0.0470	DHPAB	ASHTECH Z-X	ZE1200348013	ASH701975.01A	7485
CO50	0.8830	DHPAB	TPS GB-1000	TPSPG_A1+GP	308-10120		PACO	0.0280	DHPAB	ASHTECH Z-X	ZE120023615	ASH701975.01A	6419
GUAT	0.0280	DHPAB	ASHTECH Z-X	ZE120023615	ASH701975.01A	6419	ZAHU	0.0280	DHPAB	TPS GB-1000	TPSPG_A1+GP	308-10155	
PICA	0.0280	DHPAB	ASHTECH Z-X	ZE120030733	ASH701975.01A	7914							
OFLA	0.0280	DHPAB	ASHTECH Z-X	ZE120021205	ASH701975.01A	7139							
COME	0.0280	DHPAB	ASHTECH Z-X	-----	ASH701975.01A	???? no info							
CAMA	0.0280	DHPAB	TPS GB-1000	T224396	TPSPG_A1+GP310-1282								

Rinex source : SIO x-ok ; O-deleted

	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167		152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167
antc	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	pmej	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
areq	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	mic	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
braz	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	picc	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
brft	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	uape	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
kour	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	pcha	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
lpgs	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	colc	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
sant	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	mnmi	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
rio2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	utar	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ispa	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	psga	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
glps	X	X	-	-	-	-	-	-	X	X	X	-	-	-	-	-	hmbs	X	X	X	X	X	X	X	X	X	X	X	X	X			
copo	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	ucnf	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
conz	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	vall	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
lhcl	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																	
tucu	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	ptre	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ufpr	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	pccl	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
chpi	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	atjn	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
cfag	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	chmz	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
unsa	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	crsc	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
alum	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	ctrl	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
azul	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	cdlc	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
cata	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	cbaa	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
esqu	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	srgd	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
meco	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	vlz1	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ma01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	mcla	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
mzac	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	jrgn	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
mzae	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																	
mzas	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	pb01	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
rwsn	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	pb04	X	X	X	X	X	-	-	-	X	-	-	-	-	-		
srlp	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	pb08	X	X	X	X	X	X	X	X	X	-	-	-	-	-		
sl01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																	
tero	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																	
tuc1	X	X	X	X	X	-	X	X	X	X	X	X	X	X	X	X																	
ucor	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X																	
unro	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																	
unsj	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																	
vbca	X	X	X	X	X	-	X	X	X	X	-	X	X	X	X	X																	
cuib	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																	
maba	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																	
msgg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																	
naus	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																	
poal	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																	
pove	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																	
savo	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																	
topl	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																	
mtco	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																	
salu	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																	
batf	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																	
ceeu	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																	
riob	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																	

Repetabilities biases free

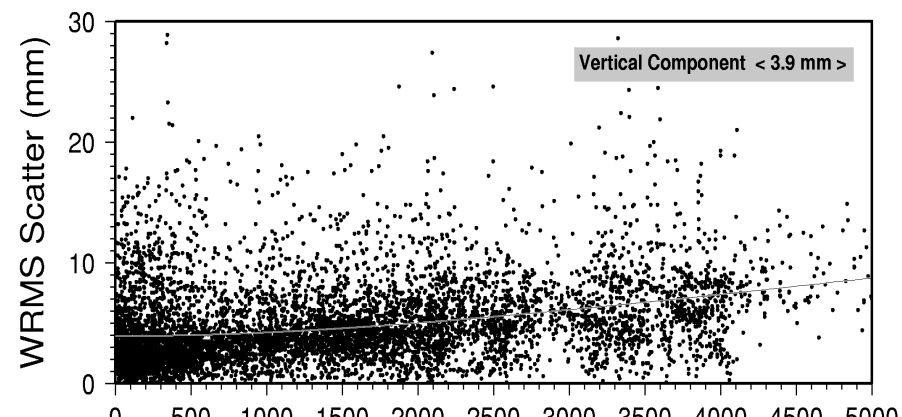
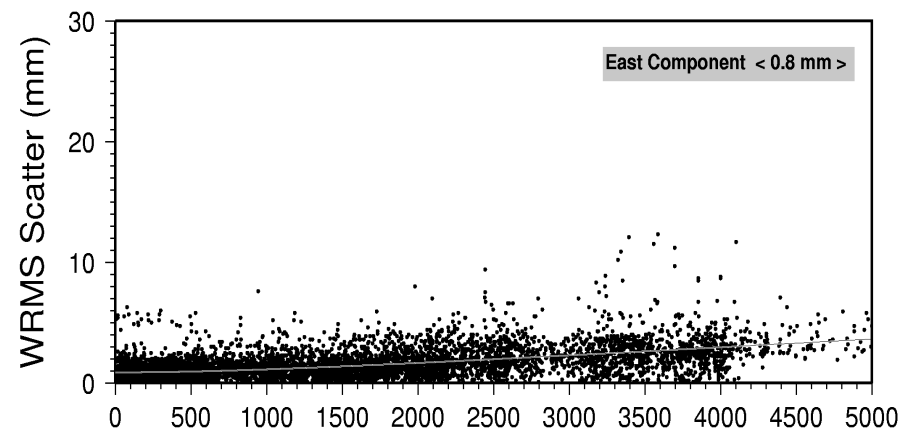
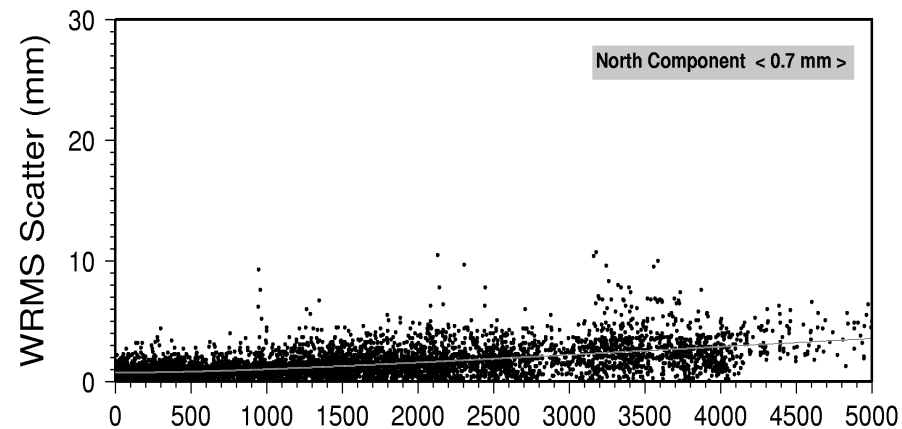
GDNORD 2010 – IGS orbits – biases free



Baseline length (km)

Repetabilities biases fixed

GDNORD 2010 – IGS orbits – biases fixed



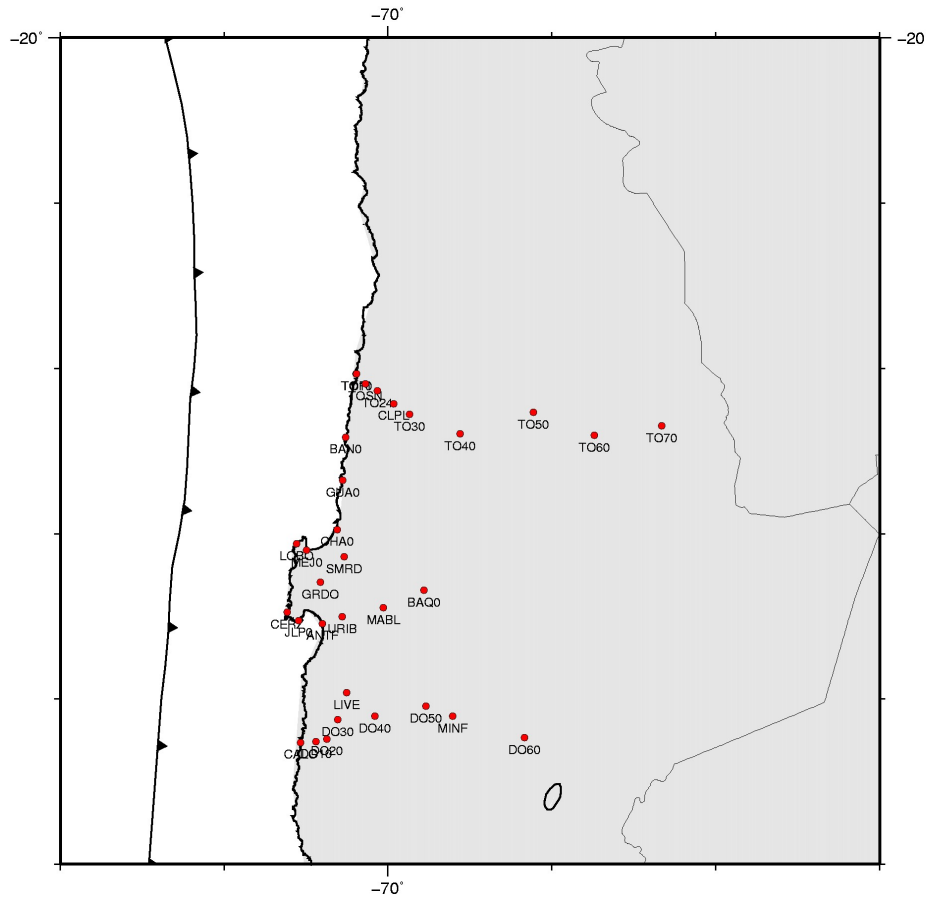
Baseline length (km)

GPS campaign – 2011 – LiA

Station.info source: log sheets
quality : good

Map

DOY 145-155



*SITE	Station Name	AntHt	Receiver	Type	Receiver SN	Antenna Type	Antenna SN
* Antofagasta/Tocopilla Network May/June 2011							
ANTF	1.1026	DHPAB	ASHTECH	Z-X	ZE1200452012	ASH701975.01A	7467_LIA6
BAN0	1.3023	DHPAB	ASHTECH	Z-X	ZE1200324053	ASH701975.01A	7930_LIA3
BAQ0	0.0280	DHPAB	ASHTECH	Z-X	ZE120020324	ASH701975.01A	8764
CALC	0.0670	DHPAB	ASHTECH	Z-X	ZE120024121	ASH701975.01A	7163
CERZ	0.0440	DHPAB	ASHTECH	Z-X	ZE1200348005	ASH701975.01A	8436
CHA0	1.3103	DHPAB	ASHTECH	Z-X	ZE1200452020	ASH701975.01A	8727_LIA7
CLPL	0.0440	DHPAB	ASHTECH	Z-X	ZE120023821	ASH701975.01A	8724
DO10	1.4136	DHPAB	ASHTECH	Z-X	ZE120024135	ASH701975.01A	7160_LIA2
DO12	0.0800	DHPAB	ASHTECH	Z-X	ZE120024130	ASH701975.01A	7159_TP
DO20	1.0625	DHPAB	ASHTECH	Z-X	ZE120024307	ASH701975.01A	7192_LIA1
DO30	0.9841	DHPAB	ASHTECH	Z-X	ZE1200324053	ASH701975.01A	7930_LIA3
DO40	0.0470	DHPAB	ASHTECH	Z-X	ZE120020320	ASH701975.01A	7914_TP
DO50	1.2717	DHPAB	ASHTECH	Z-X	ZE1200526051	ASH701975.01A	8374_LIA5
DO60	1.4181	DHPAB	ASHTECH	Z-X	ZE120023821	ASH701975.01A	8724_LIA4
GRDO	0.0440	DHPAB	ASHTECH	Z-X	ZE1200526049	ASH701975.01A	7913
GUA0	1.2938	DHPAB	ASHTECH	Z-X	ZE1200452012	ASH701975.01A	7467_LIA4
JLP0	0.0280	DHPAB	ASHTECH	Z-X	ZE1200348019	ASH701975.01A	7112
LIVE	0.0280	DHPAB	ASHTECH	Z-X	ZE120034800	ASH701975.01A	9139
LOBO	0.0440	DHPAB	ASHTECH	Z-X	ZE1200348018	ASH701975.01A	7485
MABL	0.0280	DHPAB	ASHTECH	Z-X	ZE1200338006	ASH701975.01A	7916
MEJ0	1.3233	DHPAB	ASHTECH	Z-X	ZE1200452020	ASH701975.01A	8727_LIA7
MINF	0.0280	DHPAB	ASHTECH	Z-X	ZE1200321065	ASH701975.01A	7737
SMRD	0.0440	DHPAB	ASHTECH	Z-X	ZE1200452004	ASH701975.01A	6010
TOPI	0.0670	DHPAB	ASHTECH	Z-X	ZE120024130	ASH701975.01A	7159
TOSN	0.0440	DHPAB	ASHTECH	Z-X	ZE1200324307	ASH701975.01A	7192
TO24	0.0600	DHPAB	ASHTECH	Z-X	ZE1200526051	ASH701975.01A	8374_TP
TO30	0.8796	DHPAB	ASHTECH	Z-X	ZE1200321065	ASH701975.01A	7737_LIA1
TO34	0.8278	DHPAB	ASHTECH	Z-X	ZE1200321065	ASH701975.01A	7737_LIA1
TO40	1.2787	DHPAB	ASHTECH	Z-X	ZE1200348008	ASH701975.01A	7139_LIA8
TO50	1.4196	DHPAB	ASHTECH	Z-X	ZE1200348014	ASH701975.01A	8807_LIA6
TO60	1.1684	DHPAB	ASHTECH	Z-X	ZE120024135	ASH701975.01A	7160_LIA5
TO70	1.2501	DHPAB	ASHTECH	Z-X	ZE1200321056	ASH701975.01A	7656_LIA2
URIB	0.0280	DHPAB	ASHTECH	Z-X	ZE1200348013	ASH701975.01A	8918

Notes / Issues

→ specific issue during run of 148 : fatal lcnorm bug. Due to AZUL. → process without AZUL for this DOY

Julian days : 25 may → 04 june

Season : Winter

GPS weeks : 1637 → 1638

Rinex source : LiA x-ok ; O-deleted

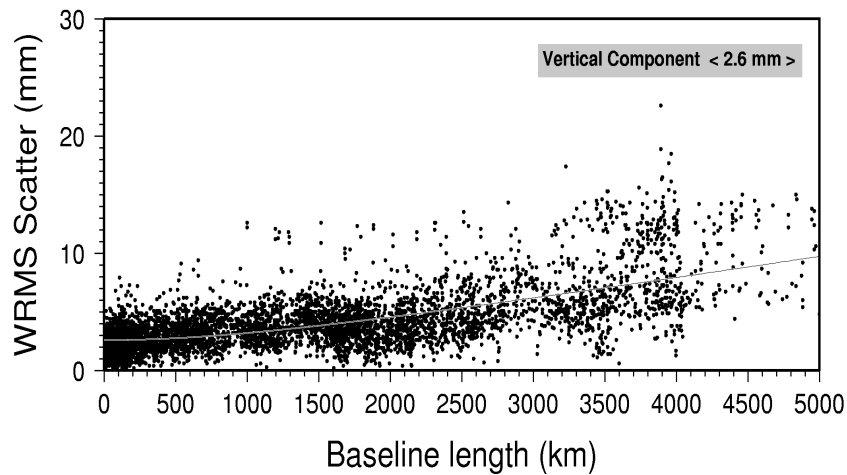
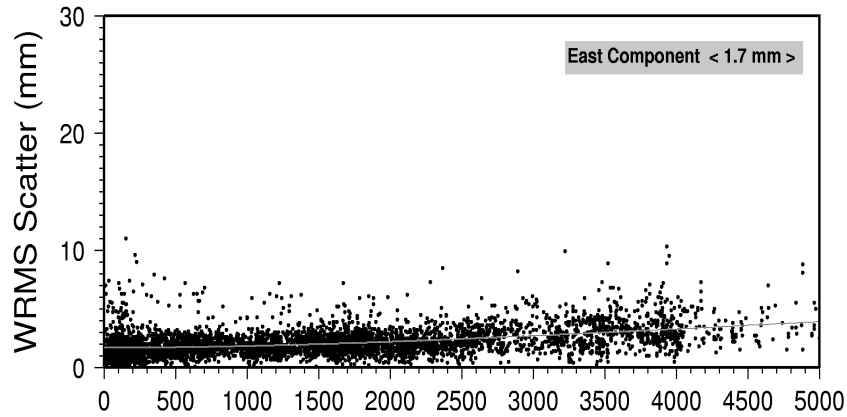
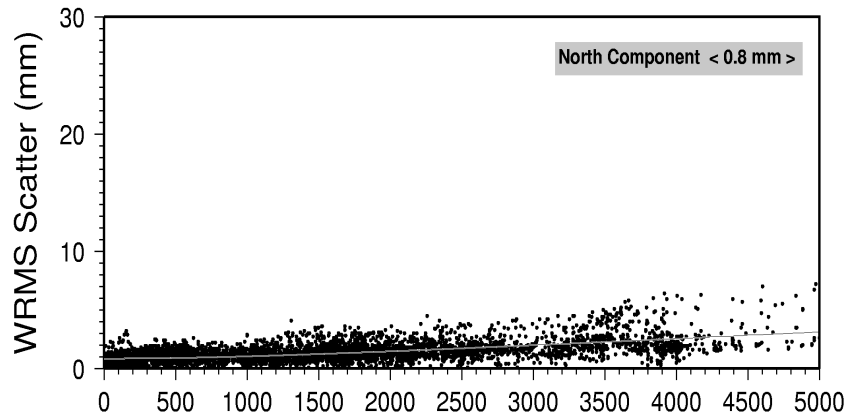
	145	146	147	148	149	150	151	152	153	154	155
calc	X	X	X	X	X	-	-	-	-	-	-
do10	X	X	X	X	X	-	-	-	-	-	-
do12	X	X	X	X	X	-	-	-	-	-	-
do20	X	X	X	X	X	-	-	-	-	-	-
do30	X	X	X	X	X	-	-	-	-	-	-
do40	o	X	X	X	X	-	-	-	-	-	-
do50	-	X	X	X	X	X	-	-	-	-	-
do60	-	X	X	X	X	X	-	-	-	-	-
minf	-	X	X	X	X	X	-	-	-	-	-
live	-	X	X	X	X	-	-	-	-	-	-
cerz	-	-	X	X	X	X	X	X	X	X	X
jlp0	-	-	X	X	X	X	X	X	X	X	-
antf	-	-	-	X	X	X	-	-	-	-	-
urib	-	-	X	X	X	X	X	X	X	-	-
mabl	-	-	X	X	X	X	X	X	X	-	-
baq0	-	-	X	X	X	X	X	X	X	X	-
grdo	-	-	X	X	X	X	X	X	X	X	X
lobo	-	-	-	X	X	X	X	X	X	X	X
mej0	-	-	-	X	X	X	-	-	-	-	-
smrd	-	-	X	X	X	X	X	X	X	X	-
cha0	-	-	-	-	-	-	-	X	X	X	X
gua0	-	-	-	-	-	-	-	X	X	X	X
ban0	-	-	-	-	-	-	-	X	X	X	X
topi	-	-	-	-	-	-	-	o	X	X	X
tol0	-	-	-	-	-	-	-	-	-	-	-
tosn	-	-	-	-	-	-	-	X	X	X	X
to24	-	-	-	-	-	-	-	X	X	X	X
clpl	-	-	-	-	-	-	-	X	X	X	X
to30	-	-	-	-	-	-	-	X	X	-	-
to34	-	-	-	-	-	-	-	-	X	X	X
to40	-	-	-	-	-	-	-	-	X	X	X
to50	-	-	-	-	-	-	-	-	X	X	X
to60	-	-	-	-	-	-	-	-	X	X	X
to70	-	-	-	-	-	-	-	-	X	X	X
antc	X	X	X	X	X	X	-	X	X	X	X
areq	X	X	X	X	X	X	X	X	X	X	X
braz	X	-	X	X	X	X	-	X	X	X	X
brft	X	X	X	X	X	X	X	X	X	X	X
kour	X	X	X	X	X	X	X	X	X	X	X
lpgs	X	X	X	X	X	X	X	X	X	X	X
sant	X	X	X	X	X	X	X	X	X	X	X
rio2	X	X	X	X	X	X	X	X	X	X	X
ispa	X	X	X	X	X	X	X	X	X	X	X
copo	X	X	X	X	X	X	X	X	X	X	X
conz	X	X	X	X	X	X	X	X	X	X	X
lhcl	X	X	X	X	X	X	X	X	X	X	X
tucu	X	X	X	X	X	X	X	X	X	X	X
ufpr	X	X	X	X	X	X	X	X	X	X	X
chpi	X	X	X	X	X	X	X	X	X	X	X
unsa	X	X	X	X	X	X	X	X	X	X	X
alum	X	X	X	X	X	X	X	X	X	X	X

Rinex source : SIO x-ok ; O-deleted

	145	146	147	148	149	150	151	152	153	154	155
azul	X	X	X	X	X	X	X	X	X	X	X
cata	X	X	X	X	X	X	X	X	X	X	X
esqu	X	X	X	X	X	X	X	X	X	X	X
meco	X	X	X	X	X	X	-	-	X	X	X
ma01	X	X	X	X	X	X	X	X	X	X	X
mzac	X	X	X	X	X	X	X	X	X	X	X
mzae	X	X	X	X	X	X	X	X	X	X	X
rwsn	X	X	X	X	X	X	X	X	X	X	X
srlp	X	X	X	X	X	X	X	X	X	X	X
sl01	X	X	X	X	X	X	X	X	X	X	X
tero	X	X	X	X	X	X	X	X	X	X	X
tucl	X	X	X	X	X	X	X	X	X	X	X
ucor	X	X	X	X	X	X	X	X	X	X	X
unro	X	X	X	X	X	X	X	X	X	X	X
unsj	X	X	X	X	X	X	X	X	X	X	X
vbca	X	X	X	X	X	X	X	X	X	X	X
cuib	X	X	X	X	X	X	X	X	X	X	X
maba	X	X	X	X	X	X	X	X	X	X	-
mscg	X	X	X	X	X	X	X	X	X	X	X
naus	X	X	X	X	X	X	X	X	X	X	X
poal	X	X	X	X	X	X	X	X	X	X	X
pove	X	X	X	X	X	X	X	X	X	X	X
savo	X	X	X	X	X	X	X	X	X	X	X
topl	X	X	X	X	X	X	X	X	X	X	X
mtco	X	X	X	X	X	X	X	X	X	X	X
salu	X	X	X	X	X	X	X	X	X	X	X
batf	X	X	X	X	-	X	X	X	X	X	X
ceeu	X	X	X	X	X	X	X	X	X	X	X
riob	X	X	X	X	X	X	X	X	X	X	X
pmej	X	X	X	X	X	X	X	X	X	X	X
rado	X	X	X	X	X	X	X	X	X	X	X
mica	X	X	X	X	X	X	X	X	X	X	X
picc	X	X	X	X	X	X	X	X	X	X	X
uape	X	X	X	X	X	X	X	X	X	X	X
pcha	X	X	X	X	X	X	X	X	X	X	X
mnmi	X	X	X	X	X	X	X	X	X	X	X
utar	X	X	X	X	X	X	X	X	X	X	X
psga	X	X	X	X	X	X	X	X	X	X	X
ucnf	X	X	X	X	X	X	X	X	X	X	X
vall	X	X	X	X	X	X	X	X	X	X	X
ptre	X	X	X	X	X	X	X	X	X	X	X
pccl	X	X	X	X	X	X	X	-	-	-	-
atjn	X	X	X	X	X	X	X	X	X	X	X
crsc	X	X	X	X	X	X	X	X	X	X	X
ctlr	X	X	X	X	X	X	X	X	X	X	X
cdlc	X	X	X	X	X	X	X	X	X	X	X
cbaa	X	X	X	X	X	X	X	X	X	X	X
srgd	X	X	X	X	X	X	X	X	X	X	X
mcla	X	X	X	X	X	X	X	X	X	X	X
jrgn	X	X	X	X	X	X	X	X	X	X	X
pb01	X	X	X	X	X	X	X	X	X	X	X
pb04	X	X	X	X	X	X	X	X	X	X	X
pb06	X	X	X	X	X	X	X	X	X	X	X
pb07	X	X	X	X	X	X	X	X	X	X	X

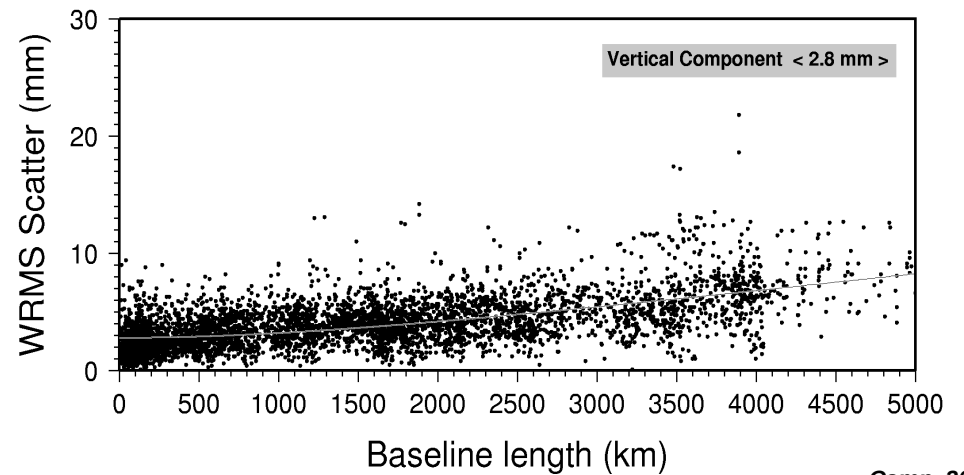
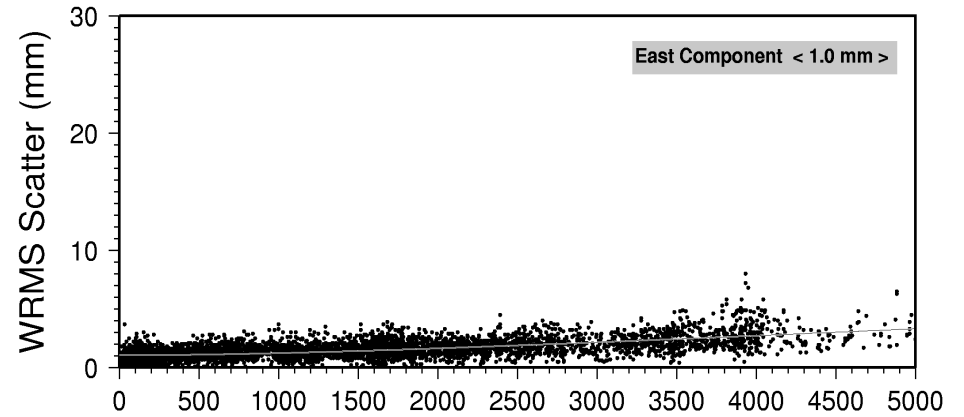
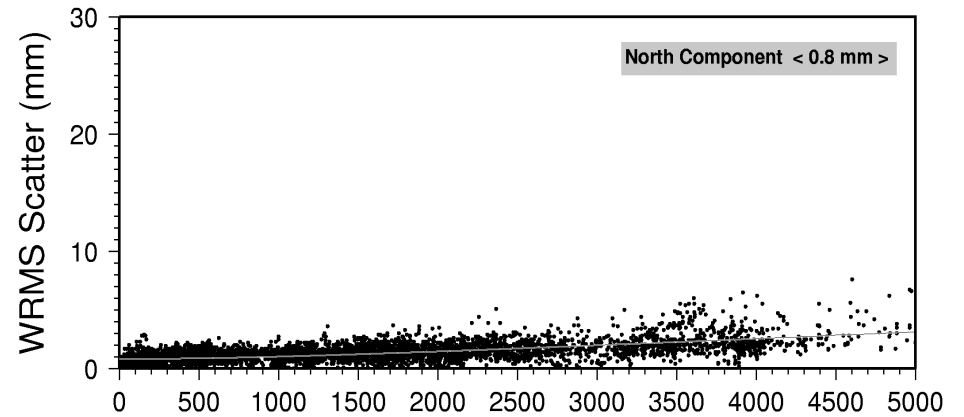
Repetabilities biases free

GDNORD 2011 – IGS orbits – biases free



Repetabilities biases fixed

GDNORD 2011 – IGS orbits – biases fixed



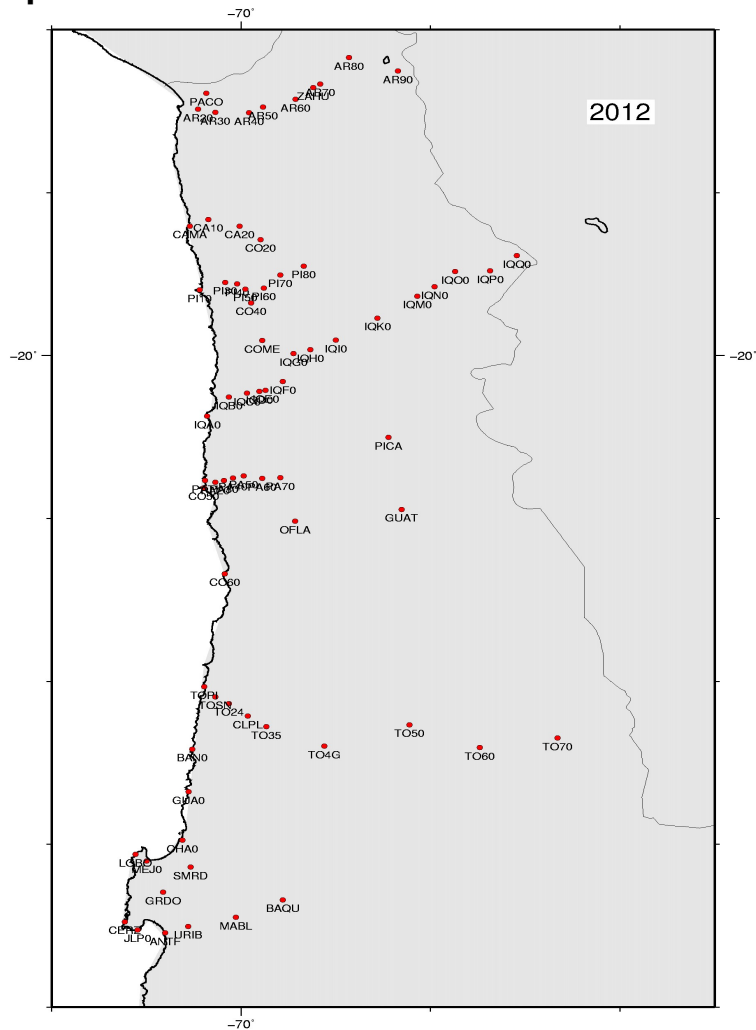
GPS campaign – 2012 – LiA

Notes / Issues

- AR10 stolen, no measurement
- KOUR has some problems

Map

DOY 095-105



Julian days : 04 avril → 14 avril

Season : Automn

GPS weeks : 1682 → 1683

Station.info source : log sheets quality : good

*SITE	Station Name	AntHt	Receiver	Type	Receiver SN	Antenna Type	Antenna SN
MABL	95 98	0.028	DHPAB	ASHTECH Z-X	ZE120023821	ASH701975.01A	8724
URIB	95 98	0.028	DHPAB	ASHTECH Z-X	ZE120020320	ASH701975.01A	7914
ANTF	96 99	0.7346	DHPAB	ASHTECH Z-X	ZE1200526051	ASH701975.01A	8374
MEJO	95 99	0.9753	DHPAB	ASHTECH Z-X	ZE120024307	ASH701975.01A	7192
LOBO	97 100	0.044	DHPAB	ASHTECH Z-X	ZE120024121	ASH701975.01A	7163
SMRD	97 100	0.044	DHPAB	ASHTECH Z-X	ZE120024135	ASH701975.01A	7160
BAQO	98 100	0.028	DHPAB	ASHTECH Z-X	ZE120023821	ASH701975.01A	8724
CLPL	101 105	0.044	DHPAB	ASHTECH Z-X	ZE1200348014	ASH701975.01A	8807
TO24	101 105	0.0525	DHPAB	ASHTECH Z-X	ZE120020320	ASH701975.01A	7914
CERZ	99 101	0.0440	DHPAB	ASHTECH Z-X	ZE1200348014	ASH701975.01A	8807
TOSN	101 105	0.0440	DHPAB	ASHTECH Z-X	ZE120024135	ASH701975.01A	7160
TOPI	100 103	0.0670	DHPAB	ASHTECH Z-X	ZE120023821	ASH701975.01A	8724
BANO	100 102	1.1054	DHPAB	ASHTECH Z-X	ZE1200526051	ASH701975.01A	8374
GUAO	100 102	1.1450	DHPAB	ASHTECH Z-X	ZE120024307	ASH701975.01A	7192
CHAO	100 102	1.1350	DHPAB	ASHTECH Z-X	ZE120024121	ASH701975.01A	7163
GRDO	99 102	0.0440	DHPAB	ASHTECH Z-X	ZE1200321065	ASH701975.01A	7737
JLPO	99 101	0.0280	DHPAB	ASHTECH Z-X	ZE120020320	ASH701975.01A	7914
TO70	103 104	1.0063	DHPAB	ASHTECH Z-X	ZE120024121	ASH701975.01A	7163
TO60	103 104	1.2140	DHPAB	ASHTECH Z-X	ZE1200321065	ASH701975.01A	7737
TO50	103 105	1.2755	DHPAB	ASHTECH Z-X	ZE120024307	ASH701975.01A	7192
TO4G	103 105	0.0670	DHPAB	ASHTECH Z-X	ZE1200526051	ASH701975.01A	8374
TO35	103 105	0.8386	DHPAB	ASHTECH Z-X	ZE120023821	ASH701975.01A	8724
IQA0	95 105	0.8524	DHPAB	ASHTECH Z-X	ZE120024130	ASH701975.01A	7159
IQB0	95 97	1.0283	DHPAB	ASHTECH Z-X	ZE1200348019	ASH701975.01A	7028
IQC0	95 97	1.0233	DHPAB	ASHTECH Z-X	ZE1200348005	ASH701975.01A	8940
IQD0	95 97	0.9892	DHPAB	ASHTECH Z-X	ZE1200526049	ASH701975.01A	8919
IQE0	103 105	1.2030	DHPAB	TPS GB-1000	T225887	TPSPG_A1+GP	308-8227
IQF0	103 105	1.2190	DHPAB	TPS GB-1000	T225913	TPSPG_A1+GP	308-10294
IQG0	97 100	0.9600	DHPAB	ASHTECH Z-X	ZE1200348005	ASH701975.01A	8940
IQH0	97 100	1.0042	DHPAB	ASHTECH Z-X	ZE120024130	ASH701975.01A	7159
IQI0	97 100	0.9781	DHPAB	ASHTECH Z-X	ZE1200526049	ASH701975.01A	8919
IQK0	97 100	0.0460	DHPAB	ASHTECH Z-X	ZE1200348019	ASH701975.01A	7028
IQM0	101 104	0.9570	DHPAB	ASHTECH Z-X	ZE1200348019	ASH701975.01A	7028
IQN0	101 104	1.0429	DHPAB	ASHTECH Z-X	ZE1200526049	ASH701975.01A	8919
IQO0	101 104	1.0078	DHPAB	ASHTECH Z-X	ZE120024130	ASH701975.01A	7159
IQP0	101 104	1.0725	DHPAB	ASHTECH Z-X	ZE1200348011	ASH701975.01A	8940
IQQ0	101 104	1.2592	DHPAB	TPS GB-1000	T225705	TPSPG_A1+GP	308-3080
CO4T	96 98	1.0103	DHPAB	TPS GB-1000	T225896	TPSPG_A1+GP	310-1767
GUAT	99 105	0.0850	DHPAB	TPS GB-1000	T225836	TPSPG_A1+GP	308-2451
PICA	99 102	0.0280	DHPAB	TPS GB-1000	T225913	TPSPG_A1+GP	308-8227
OFLA	99 105	0.0760	DHPAB	TPS GB-1000	T225696	TPSPG_A1+GP	308-3835
COME	97 100	0.0280	DHPAB	TPS GB-1000	T225705	TPSPG_A1+GP	308-3080
PI10	96 99	0.0440	DHPAB	TPS GB-1000	T224398	TPSPG_A1+GP	308-5111
PI30	96 98	0.0440	DHPAB	TPS GB-1000	T225921	TPSPG_A1+GP	308-3549
PI40	96 98	0.0440	DHPAB	TPS GB-1000	T225888	TPSPG_A1+GP	308-2499
PI40	103 105	0.0410	DHPAB	TPS GB-1000	T225696	TPSPG_A1+GP	308-2335
PI50	96 98	0.0440	DHPAB	TPS GB-1000	T225873	TPSPG_A1+GP	308-2308
PI50	103 105	0.0410	DHPAB	TPS GB-1000	T225836	TPSPG_A1+GP	308-10120
PI60	96 98	0.0440	DHPAB	TPS GB-1000	T225124	TPSPG_A1+GP	308-7178
PI70	96 98	0.0440	DHPAB	ASHTECH Z-X	ZE1200321056	ASH701975.01A	7656
PI80	96 99	0.0440	DHPAB	ASHTECH Z-X	ZE1200324053	ASH701975.01A	7930
CAMA	98 100	0.0280	DHPAB	TPS GB-1000	T225896	TPSPG_A1+GP	308-2933
CA10	98 100	0.1740	DHPAB	TPS GB-1000	T225124	TPSPG_A1+GP	308-7178
CA10	103 105	0.1620	DHPAB	TPS GB-1000	T225707	TPSPG_A1+GP	308-3835

*SITE	Station Name	AntHt	Receiver	Type	Receiver SN	Antenna Type	Antenna SN
CA20	98 100	0.0440	DHPAB	TPS GB-1000	T225921	TPSPG_A1+GP	308-3549
CO20	98 100	1.0012	DHPAB	TPS GB-1000	T225888	TPSPG_A1+GP	308-1979
AR20	100 102	1.0052	DHPAB	TPS GB-1000	T225873	TPSPG_A1+GP	308-5111
AR30	102 105	0.7850	DHPAB	TPS GB-1000	T224398	TPSPG_A1+GP	308-5111
AR40	102 105	0.0440	DHPAB	TPS GB-1000	T225124	TPSPG_A1+GP	308-2308
AR50	103 105	1.0906	DHPAB	ASHTECH Z-X	ZE1200321056	ASH701975.01A	7656
AR60	103 105	0.0440	DHPAB	TPS GB-1000	T225921	TPSPG_A1+GP	308-3549
AR70	103 105	0.1770	DHPAB	TPS GB-1000	T225896	TPSPG_A1+GP	308-2933
AR80	101 103	0.1720	DHPAB	TPS GB-1000	T223921	TPSPG_A1+GP	308-3549
AR90	101 103	0.9630	DHPAB	TPS GB-1000	T225896	TPSPG_A1+GP	308-2933
PACO	100 102	0.0280	DHPAB	ASHTECH Z-X	ZE1200321056	ASH701975.01A	7656
ZAHU	101 105	0.0280	DHPAB	TPS GB-1000	T225888	TPSPG_A1+GP	308-2499
CO60	96 98	1.2090	DHPAB	TPS GB-1000	T225913	TPSPG_A1+GP	308-3835
CO50	96 98	0.9892	DHPAB	TPS GB-1000	T225887	TPSPG_A1+GP	308-2451
PATI	96 105	0.0670	DHPAB	TPS GB-1000	T225696	TPSPG_A1+GP	308-3835
PA20	96 98	0.4295	DHPAB	TPS GB-1000	T225878	TPSPG_A1+GP	308-2335
PA30	96 98	0.0410	DHPAB	TPS GB-1000	T225836	TPSPG_A1+GP	308-2335
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PA70	98 105	0.0410	DHPAB	TPS GB-1000	T225887	TPSPG_A1+GP	308-1094

Rinex source : LiA X-ok ; O-deleted; x-small

	095	096	097	098	099	100	101	102	103	104	105
cerz	-	-	-	-	x	X	x	-	-	-	-
jlp0	-	-	-	-	x	X	x	-	-	-	-
antf	-	x	X	X	x	-	-	-	-	-	-
urib	o	X	X	X	-	-	-	-	-	-	-
mabl	o	X	X	x	-	-	-	-	-	-	-
baqu	-	-	-	-	-	-	-	-	-	-	-
grdo	-	-	-	-	x	X	X	x	-	-	-
lobo	-	-	x	X	X	x	-	-	-	-	-
mej0	-	o	X	X	X	-	-	-	-	-	-
smrd	-	-	o	X	X	X	-	-	-	-	-
cha0	-	-	-	-	-	o	X	x	-	-	-
gua0	-	-	-	-	-	o	X	X	-	-	-
ban0	-	-	-	-	-	o	X	X	-	-	-
topi	-	-	-	-	-	o	X	X	x	-	-
to10	-	-	-	-	-	-	-	-	-	-	-
tosn	-	-	-	-	-	-	x	X	X	X	x
to24	-	-	-	-	-	-	o	X	X	X	x
clp1	-	-	-	-	-	-	o	X	X	X	x
to35	-	-	-	-	-	-	-	-	x	X	x
to4g	-	-	-	-	-	-	-	-	x	X	x
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ar50	-	-	-	-	-	-	-	-	o	X	x
ar60	-	-	-	-	-	-	-	-	o	X	X
ar70	-	-	-	-	-	-	-	-	x	X	X
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ar90	-	-	-	-	-	-	x	X	X	-	-
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co20	-	-	-	o	X	X	-	-	-	-	-
co40	-	x	X	X	-	-	-	-	-	-	-
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iqg0	-	-	o	X	X	X	-	-	-	-	-
iqh0	-	-	o	X	X	X	-	-	-	-	-
iqi0	-	-	o	X	X	X	-	-	-	-	-
idj0	-	-	-	-	-	-	-	-	-	-	-

	095	096	097	098	099	100	101	102	103	104	105
iqk0	-	-	o	X	X	X	-	-	-	-	-
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iqp0	-	-	-	-	-	-	x	X	X	x	-
iqq0	-	-	-	-	-	-	x	-	X	X	-
pati	-	X	X	X	-	-	-	-	-	-	-
pa20	-	x	X	X	-	-	-	-	-	-	-
pa30	-	x	X	X	-	-	-	-	-	-	-
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ofla	-	-	-	-	x	X	X	X	-	-	-
paco	-	-	-	-	-	o	X	X	-	-	-
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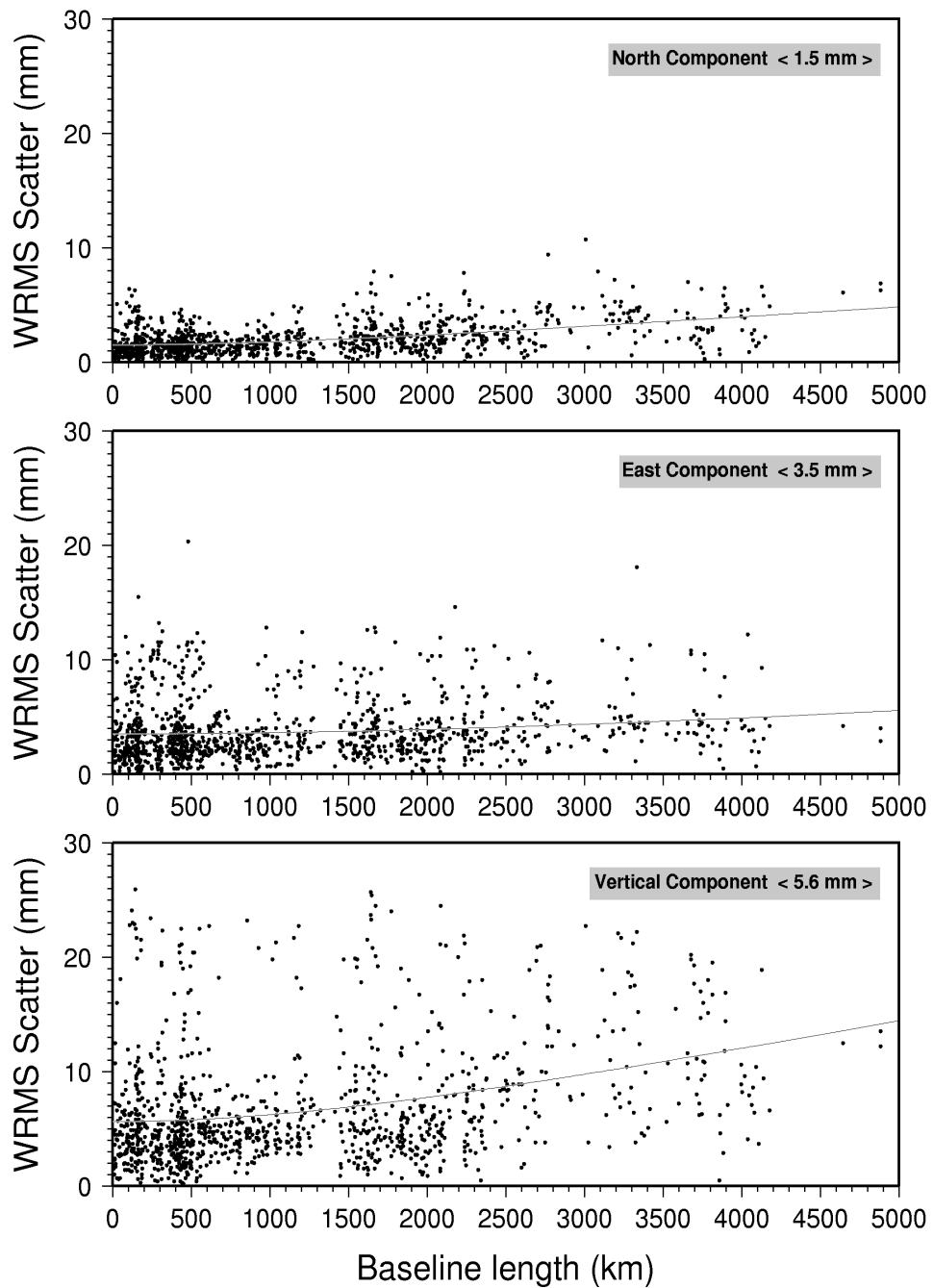
Rinex source : SIO x-ok ; O-deleted

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areq	X	X	X	X	X	X	X	X	X	X	X
braz	X	X	X	X	X	X	X	X	X	X	X
brft	X	X	X	X	X	X	X	X	X	X	X
kour	-	-	X	X	X	X	-	X	X	-	X
lpgs	X	X	X	X	X	X	X	-	-	-	-
sant	X	X	X	X	X	X	X	X	X	X	X
rio2	X	X	X	X	X	X	X	X	-	X	-
ispa	X	X	X	X	X	X	X	X	X	X	X
copo	X	X	X	X	X	X	X	X	X	X	X
conz	X	X	X	X	X	X	X	X	X	X	X
ufpr	X	X	X	X	X	X	X	X	X	X	X
chpi	X	X	X	X	X	X	X	X	X	X	X
alum	X	X	X	X	X	X	X	X	X	X	X
azul	X	X	X	X	X	X	X	X	X	X	X
cata	X	X	X	X	X	X	X	X	X	X	X
esqu	X	X	X	X	X	X	X	X	X	X	-
mzac	X	X	X	X	X	X	X	X	X	X	X
mzae	X	-	-	-	-	X	X	X	X	X	X
rwsn	X	X	X	X	X	X	X	X	X	X	X
srlp	X	X	X	X	X	X	X	X	X	X	-
sl01	X	X	X	X	X	X	X	X	X	X	X
tero	X	X	X	X	X	X	X	X	X	X	X
tucl	X	X	X	X	X	X	X	X	X	X	X
ucor	X	X	X	X	X	X	X	X	X	X	X
unro	X	X	X	X	X	X	X	X	X	X	X
unsj	X	X	X	X	X	X	X	X	X	X	X
vbca	X	X	X	X	X	X	X	X	X	X	X
cuib	X	X	X	X	X	X	X	X	X	X	X
mscg	X	X	X	X	X	X	X	X	X	X	X
naus	X	X	X	X	X	X	X	X	X	X	X
poal	X	X	X	X	X	X	X	X	X	X	X
pove	X	X	X	X	X	X	X	X	X	X	X
savo	X	X	X	X	X	X	X	X	X	X	X
topl	X	X	X	X	X	X	X	X	X	X	X
mtco	X	X	X	X	X	X	X	X	X	X	X
salu	X	X	X	X	X	X	X	X	X	X	X
batf	X	X	X	X	X	X	X	X	X	X	X
ceeu	X	X	X	X	X	X	X	X	X	X	X
riob	X	X	X	X	X	X	X	X	X	X	X

	095	096	097	098	099	100	101	102	103	104	105
pmej	X	X	X	X	X	X	X	X	X	X	X
rado	X	X	X	X	X	X	X	X	X	X	X
picc	X	X	X	X	X	X	X	X	-	-	-
uape	X	X	X	X	X	X	X	X	X	X	X
pcha	X	X	X	X	X	X	X	X	X	-	-
colc	X	X	X	X	X	X	X	X	X	X	X
mnmi	X	X	X	X	X	X	X	X	X	X	X
utar	X	X	X	X	X	X	X	X	X	X	X
psga	X	X	X	X	X	X	X	X	X	X	X
ucnf	X	X	X	X	X	X	X	X	X	X	X
vall	X	X	X	X	X	X	X	X	X	X	X
atjn	X	X	X	X	X	X	X	X	X	X	X
crsc	X	X	X	X	X	X	X	X	X	X	X
mcla	X	X	X	X	X	X	X	X	X	X	X
pb01	X	X	X	X	X	X	X	X	X	X	X
pb03	X	X	X	X	X	X	X	X	X	X	X
pb05	X	X	X	X	X	X	X	X	X	X	X
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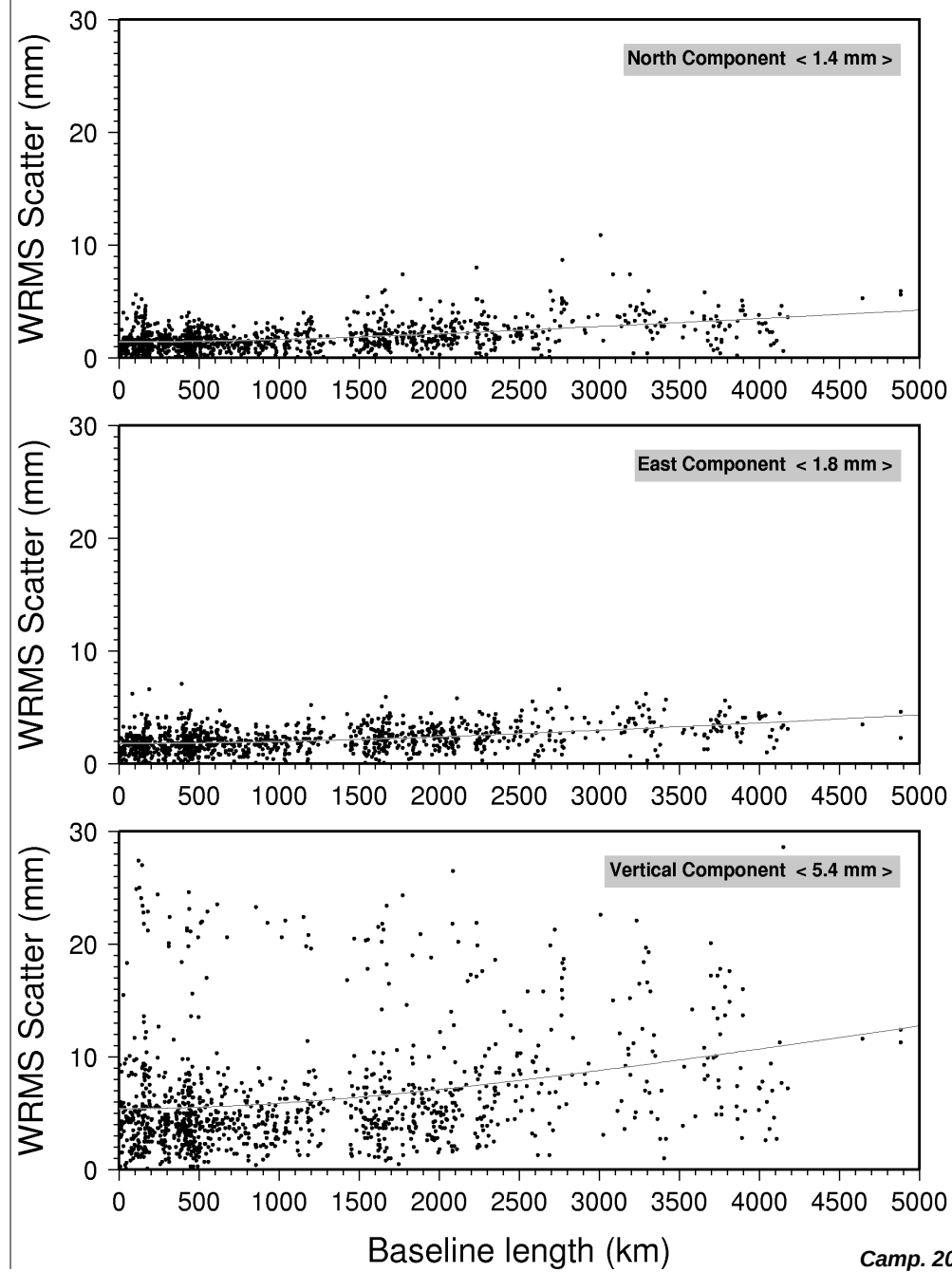
Repetabilities biases free

GDNORD 2012 – IGS orbits – biases free

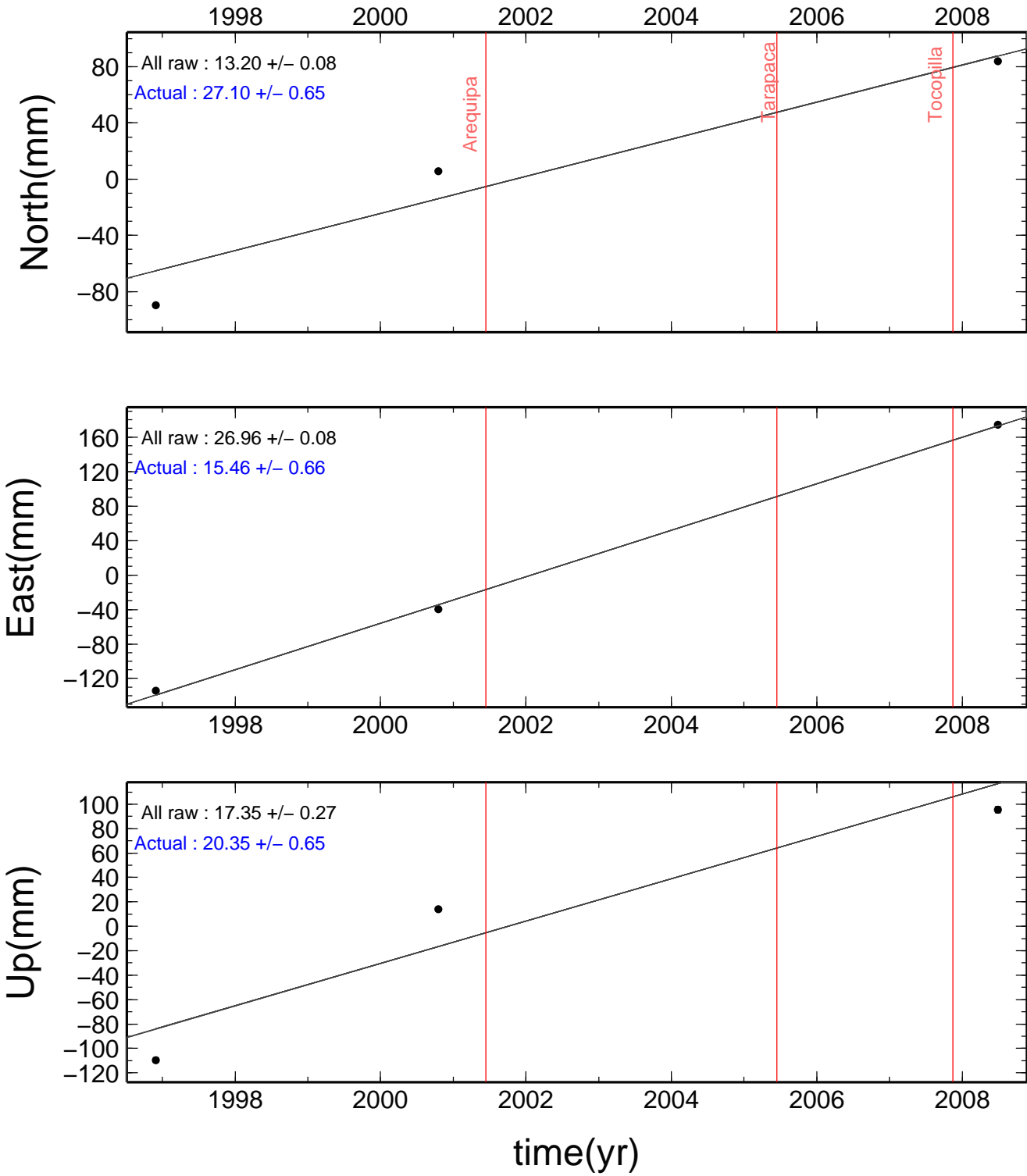


Repetabilities biases fixed

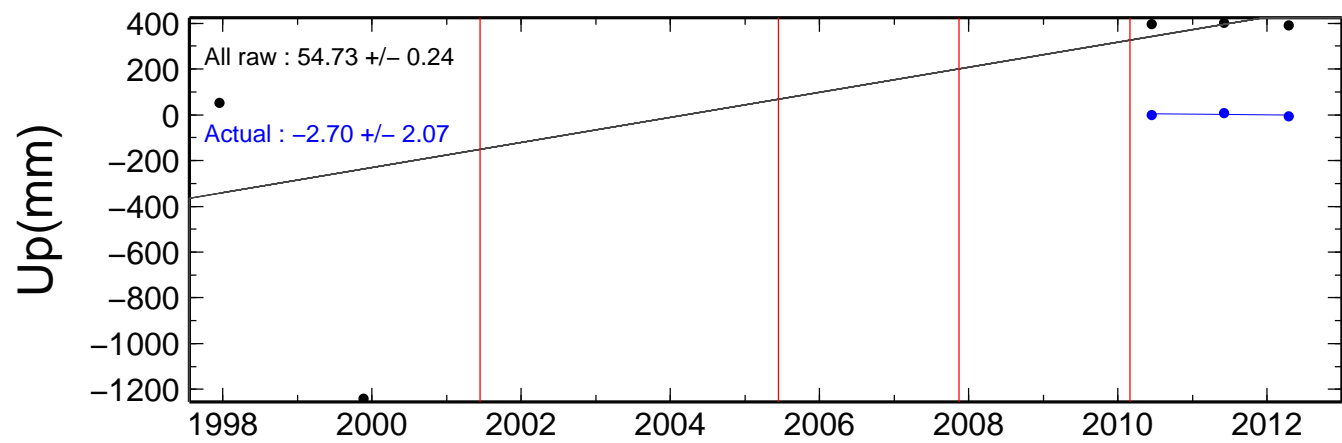
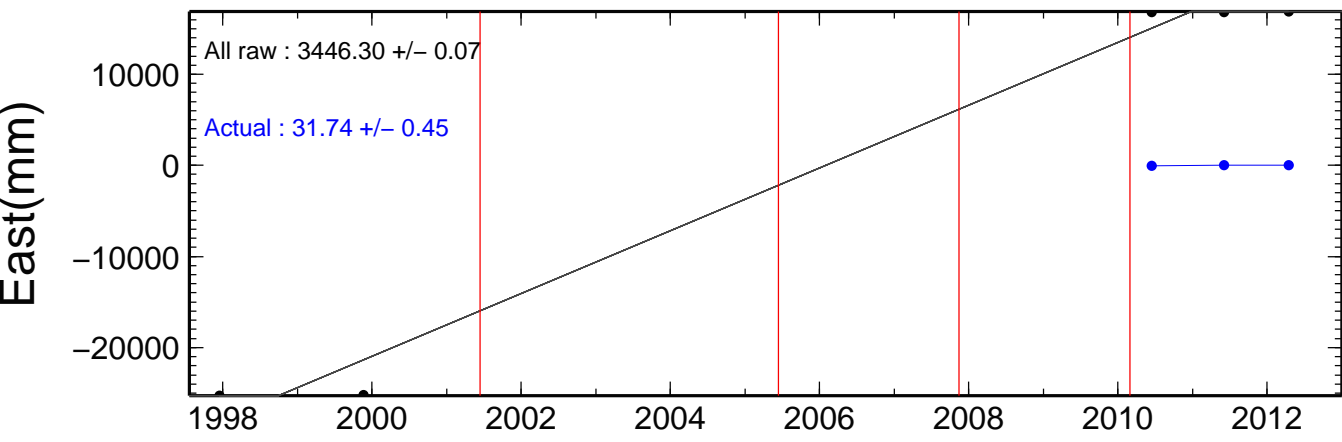
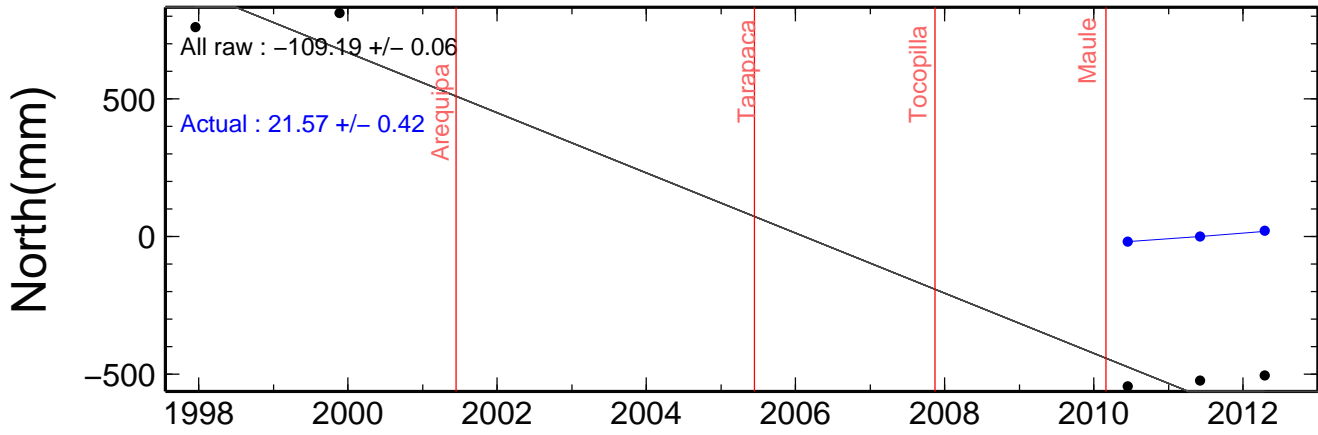
GDNORD 2012 – IGS orbits – biases fixed



AN00

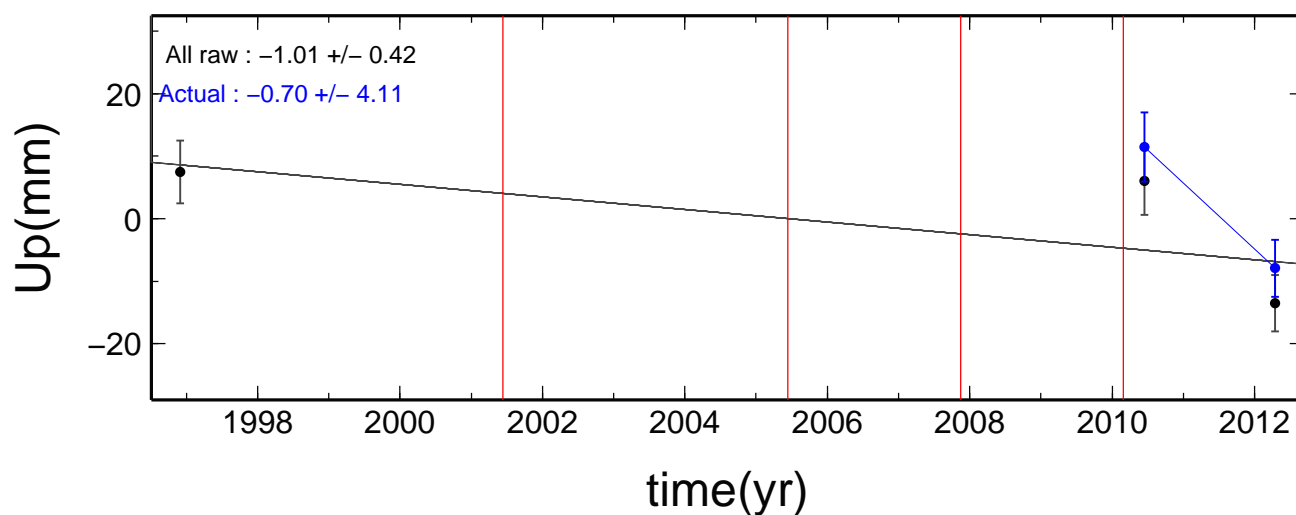
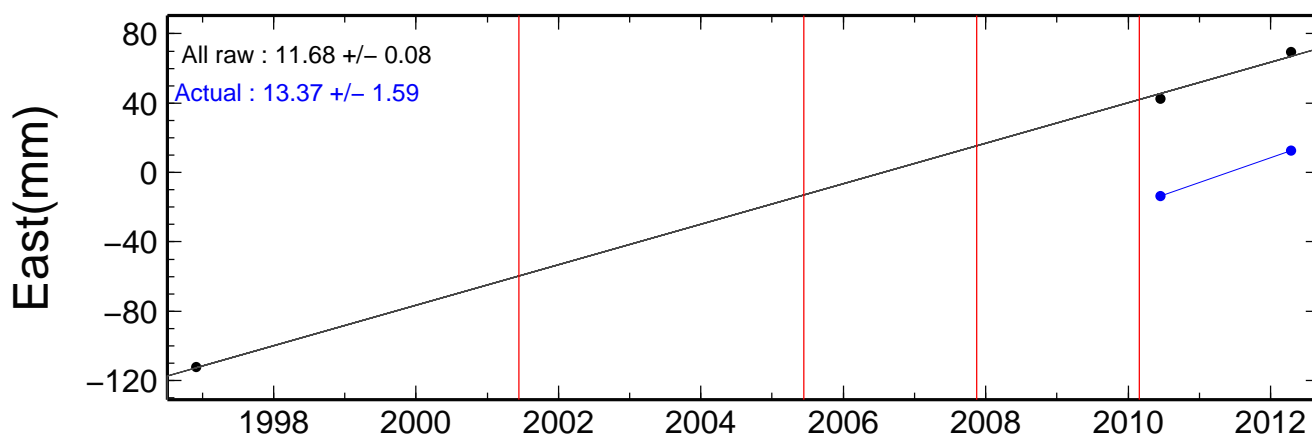
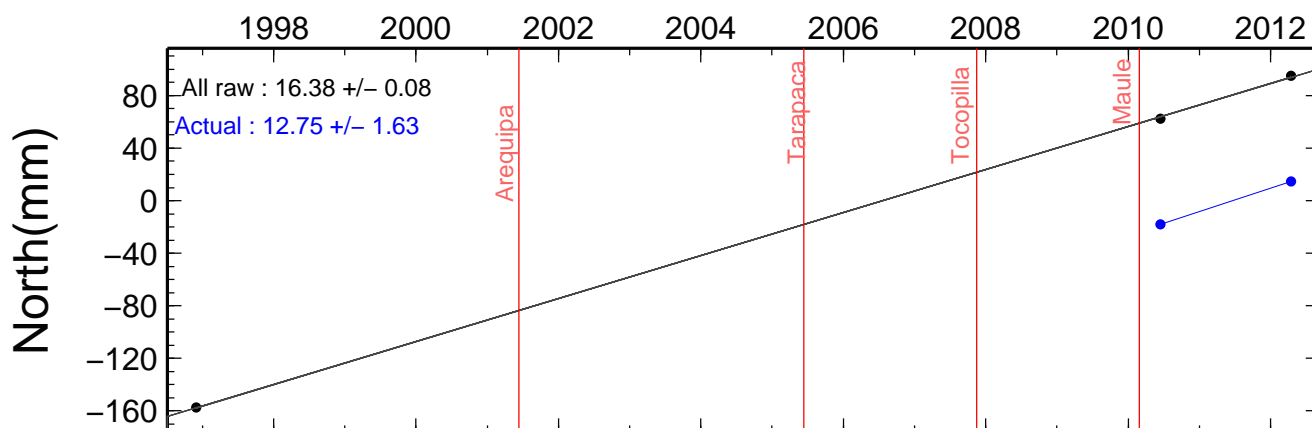


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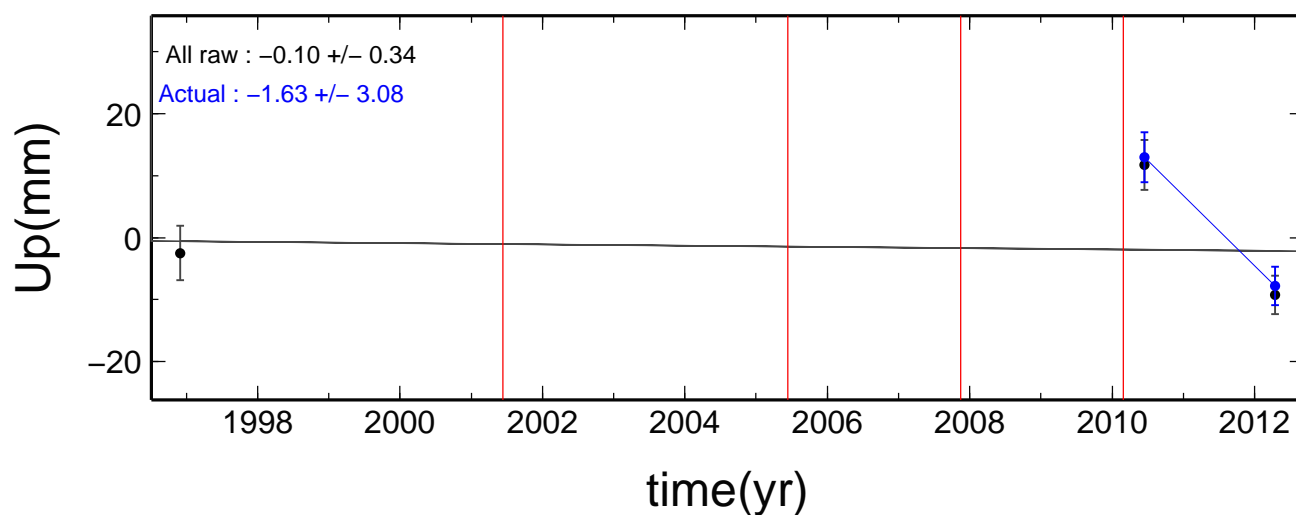
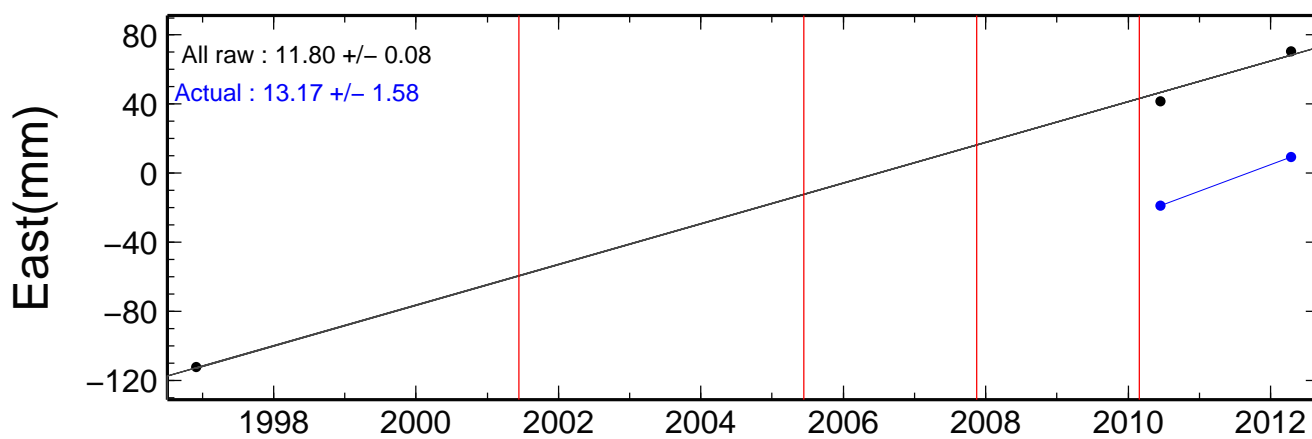
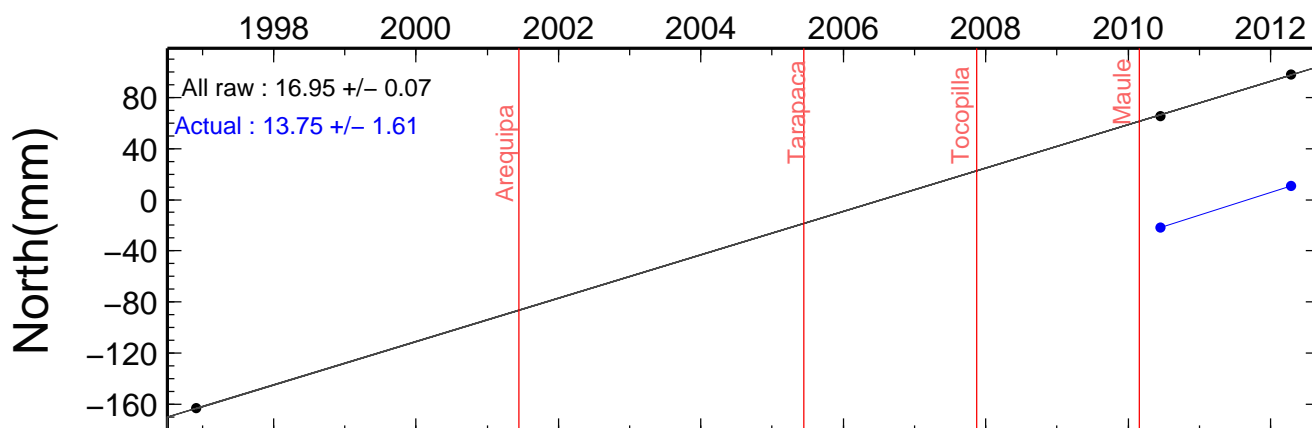


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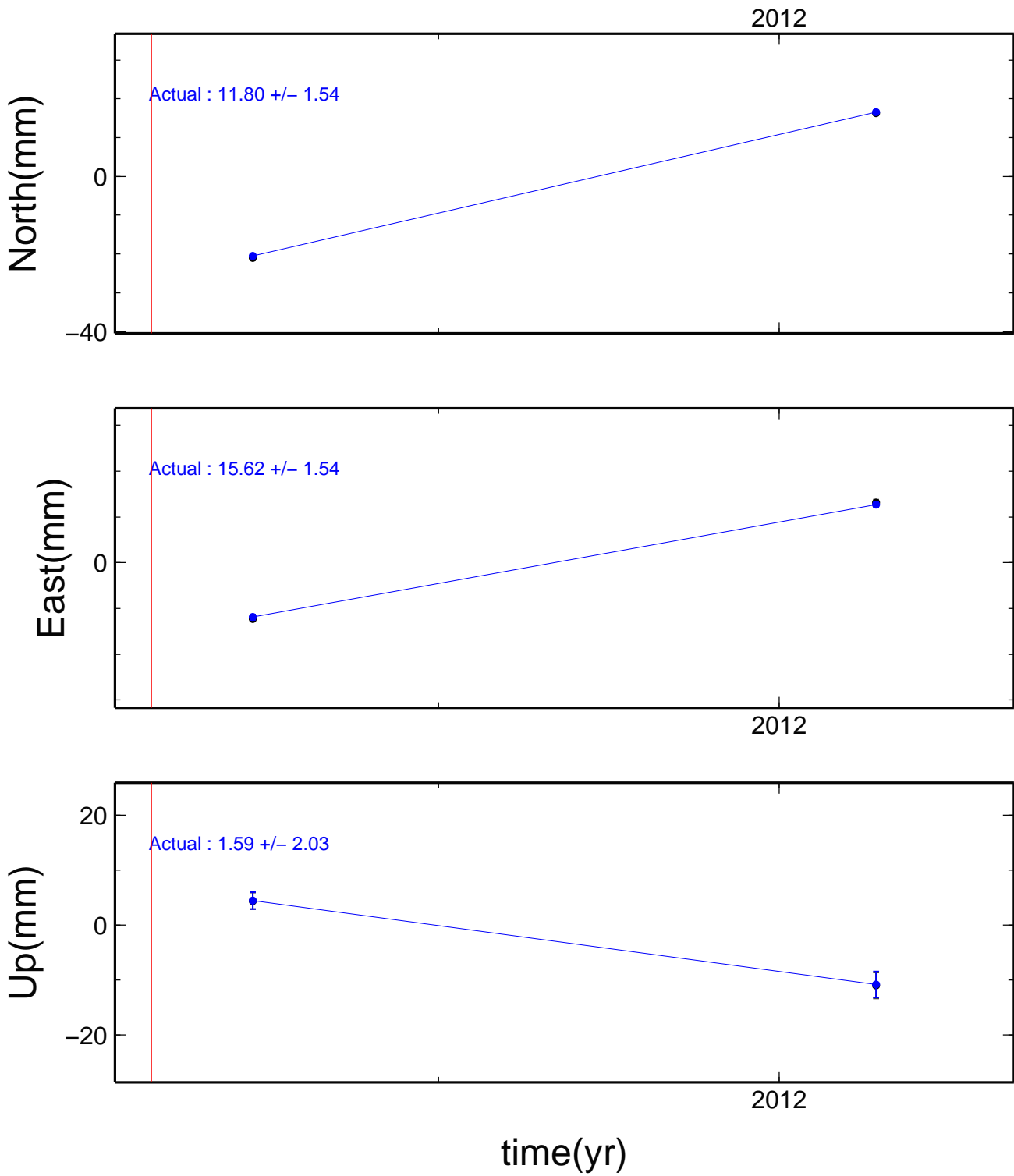
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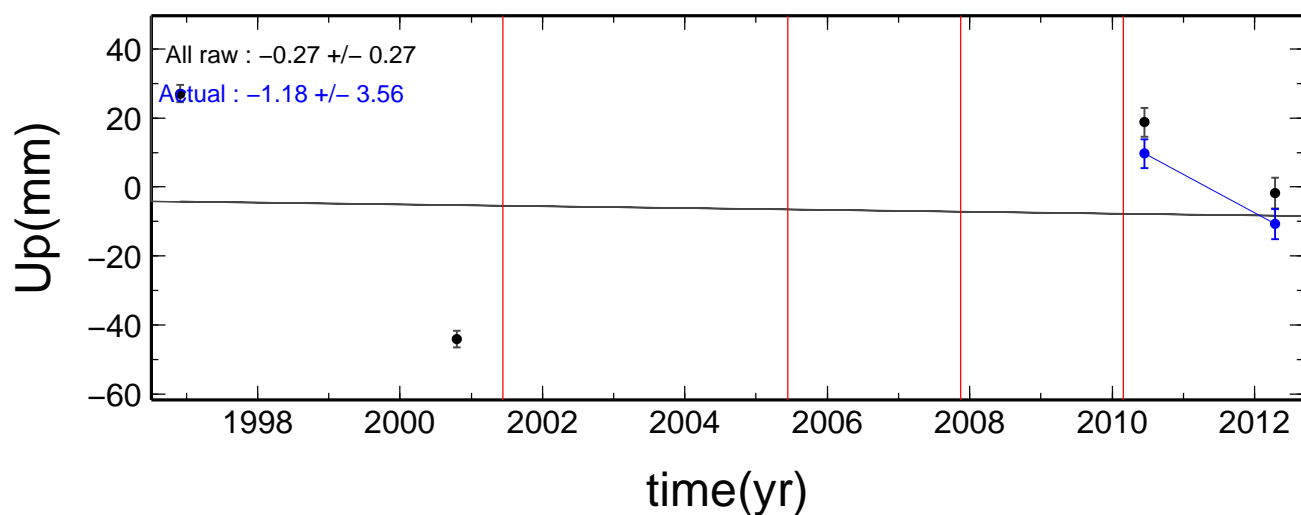
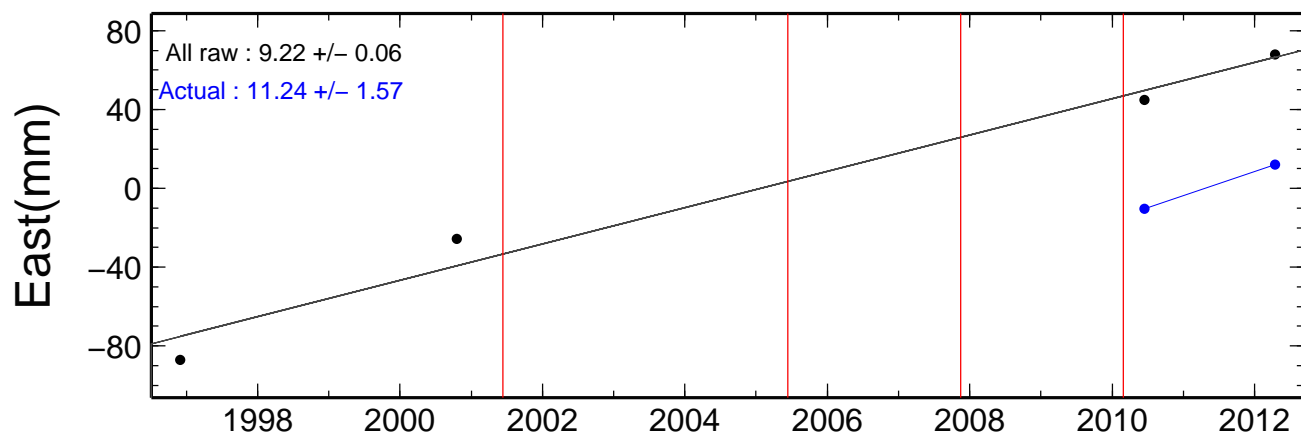
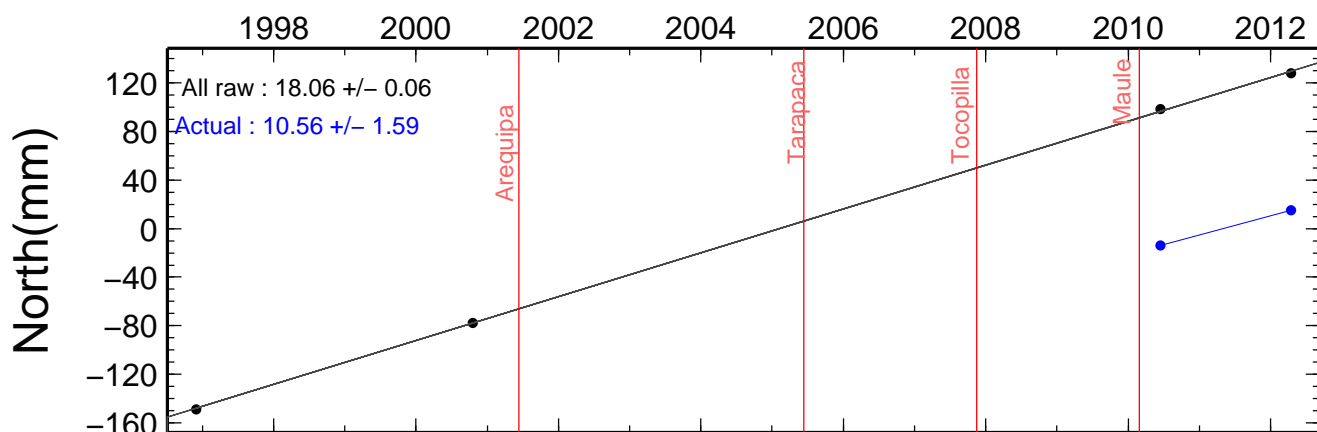
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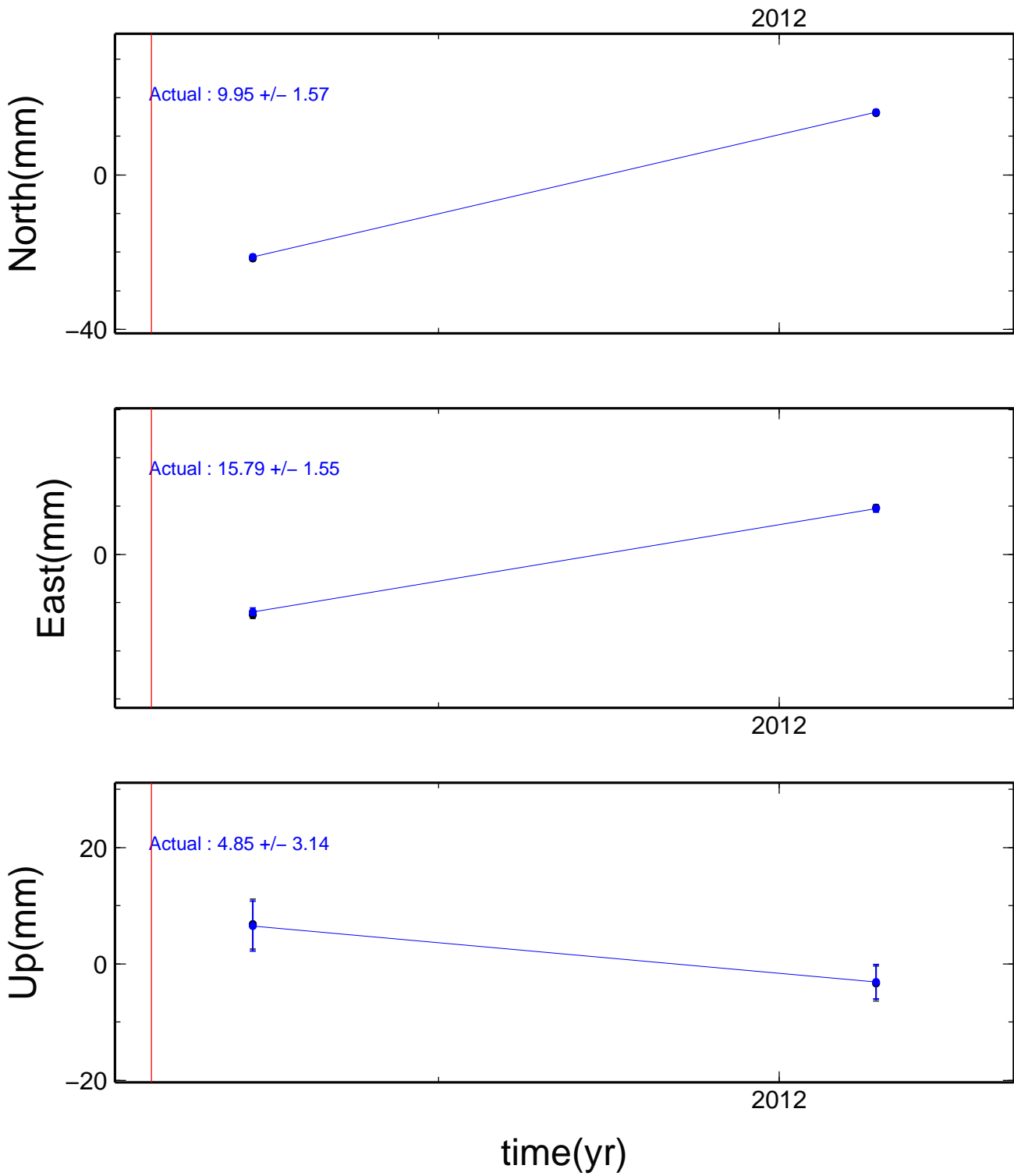
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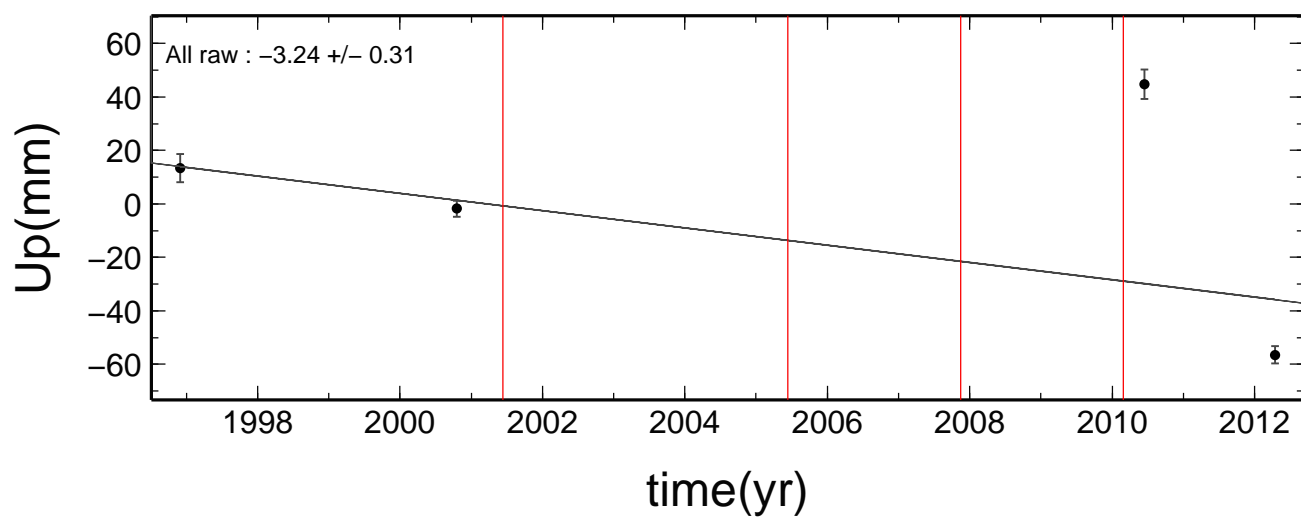
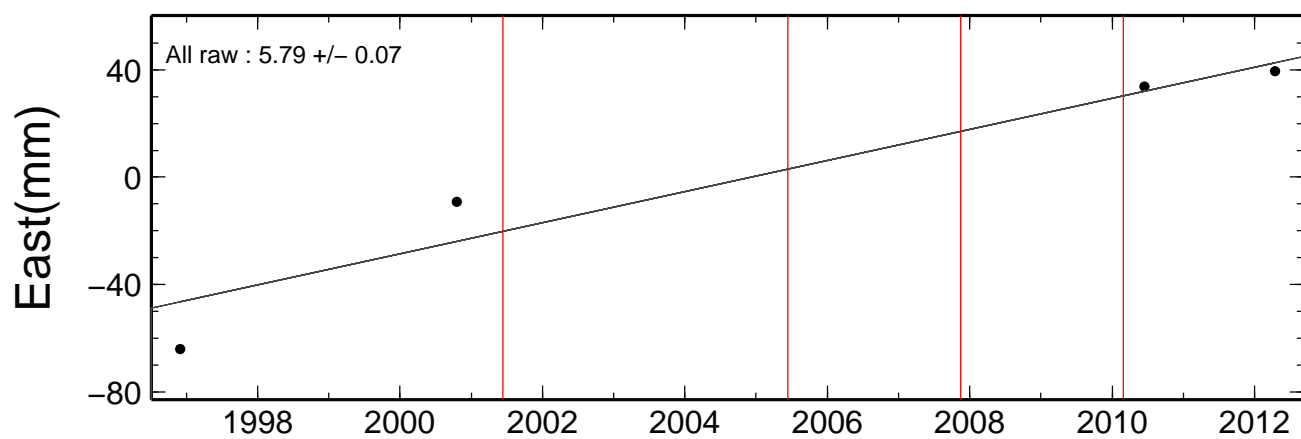
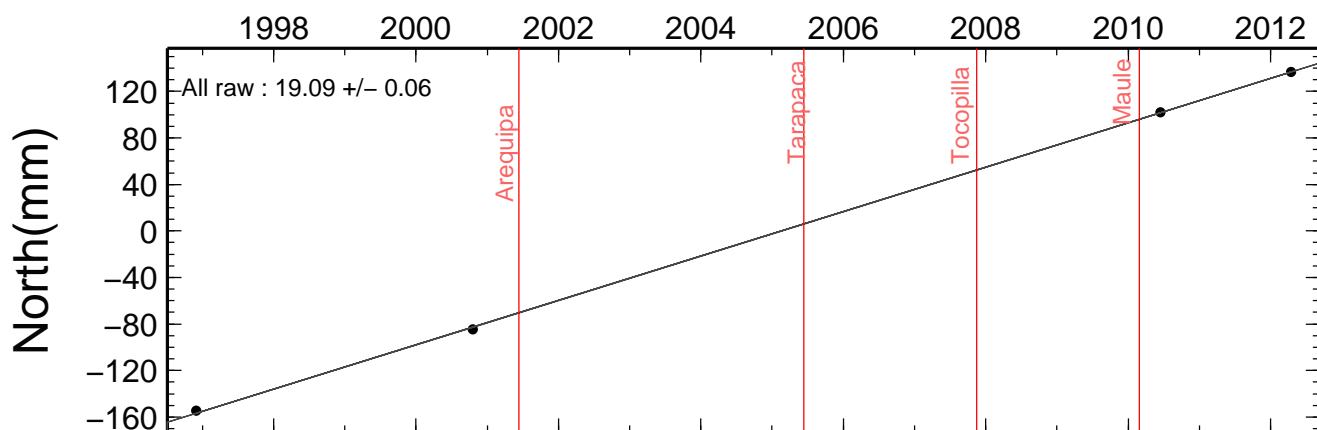
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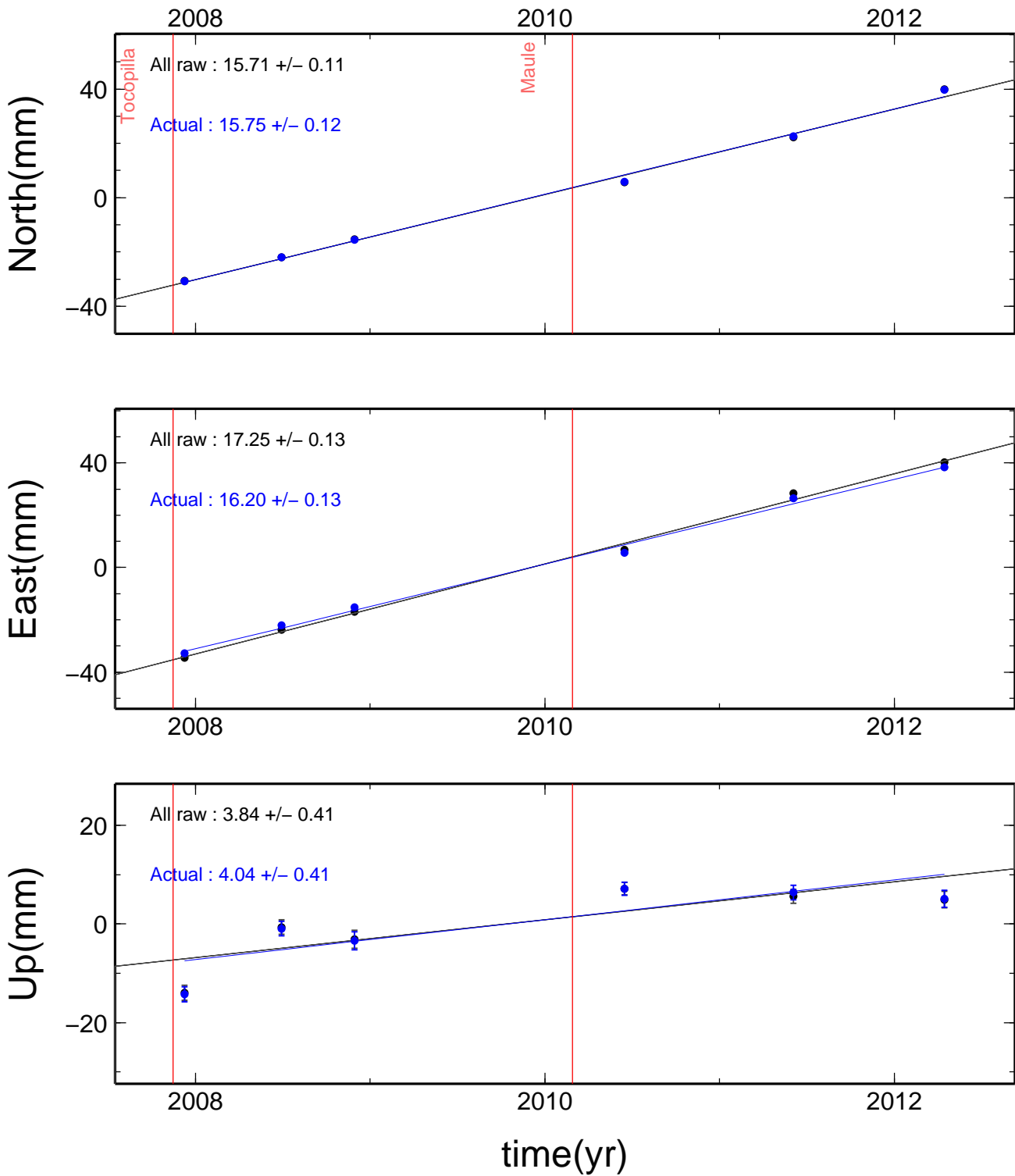
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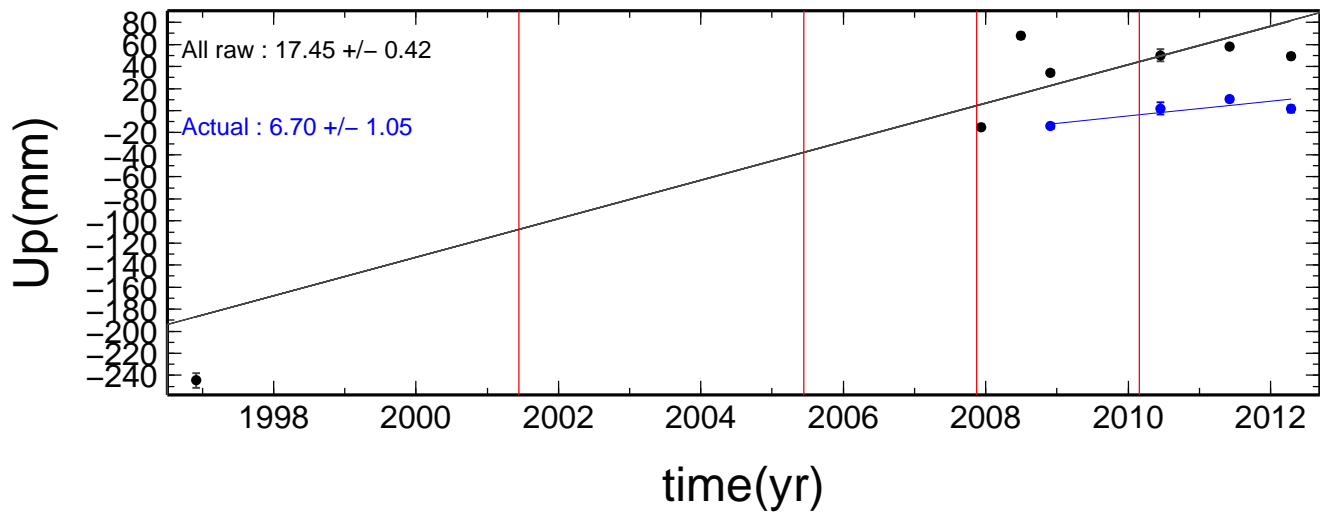
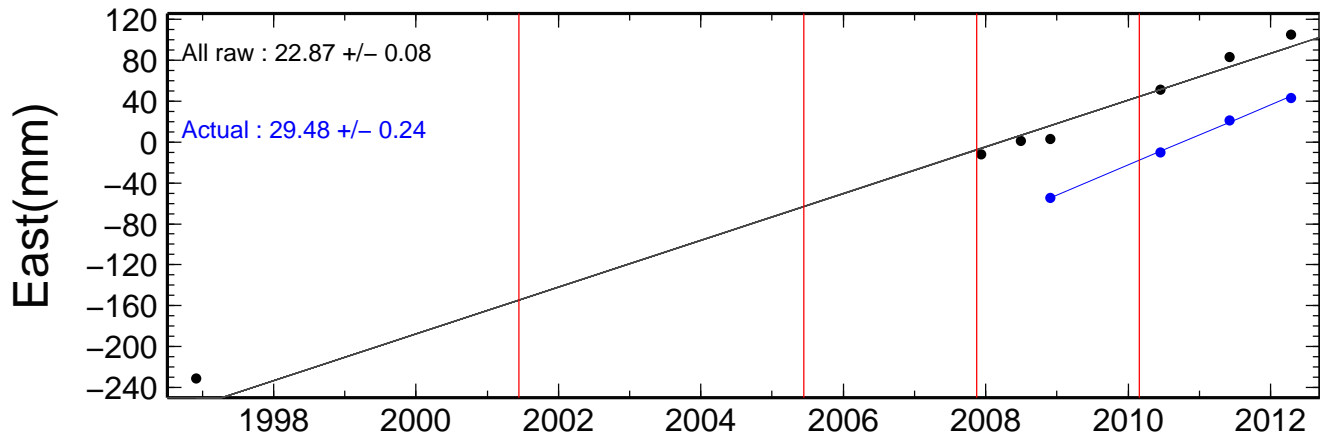
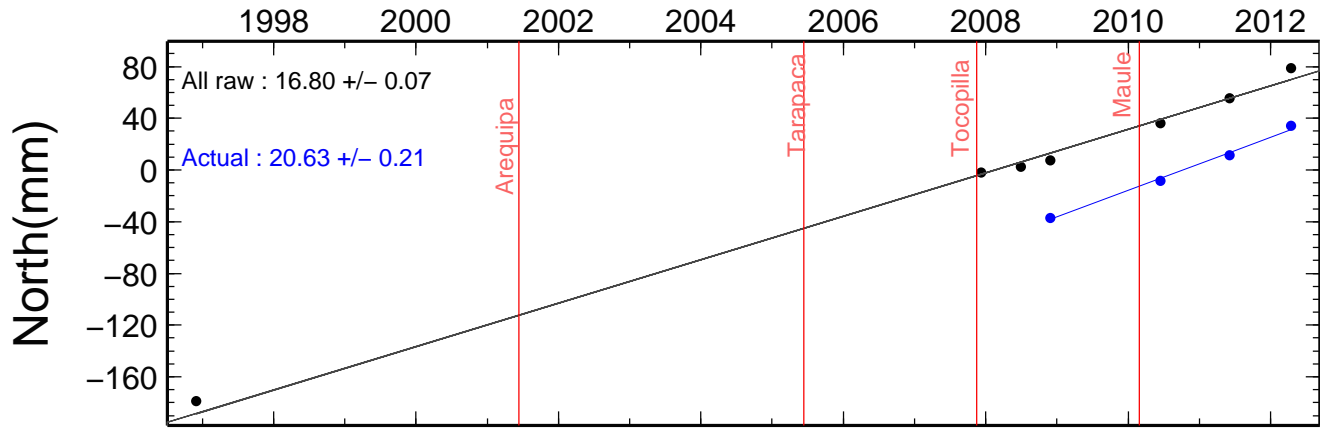
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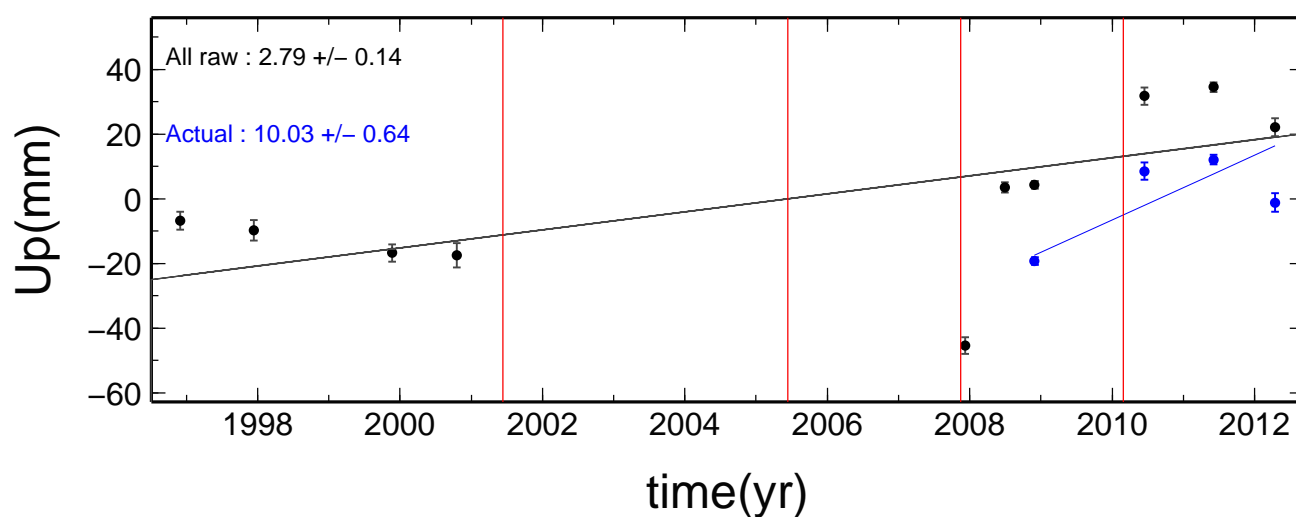
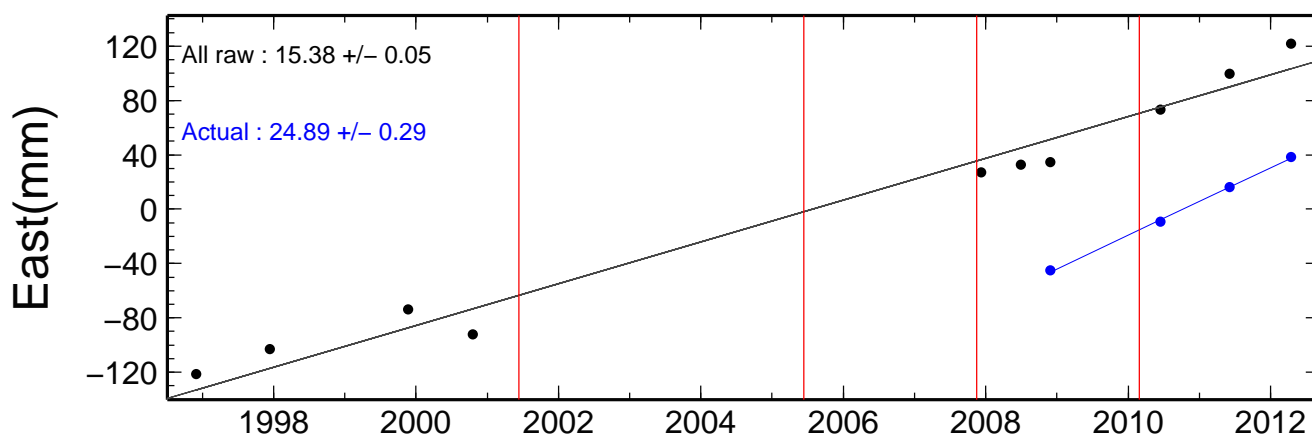
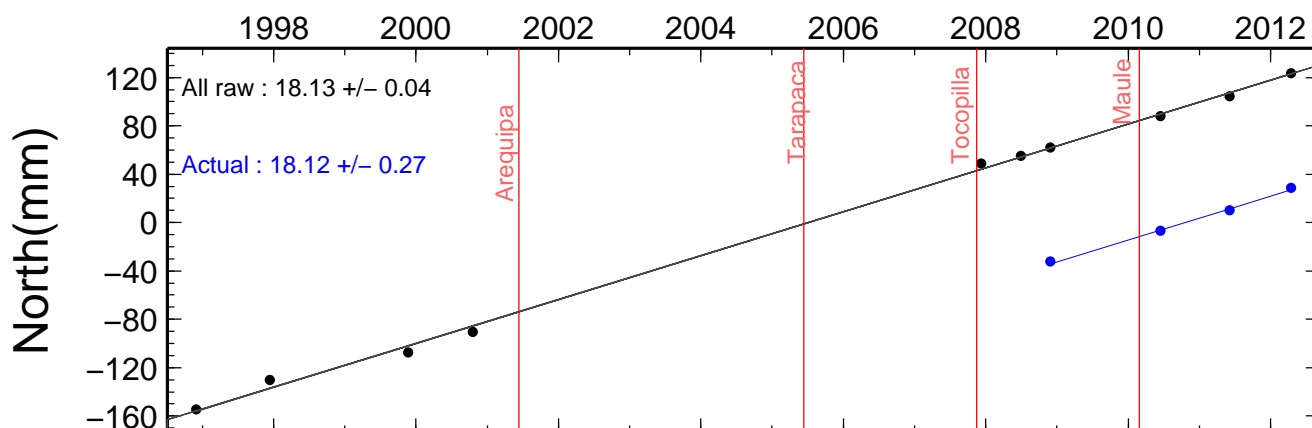
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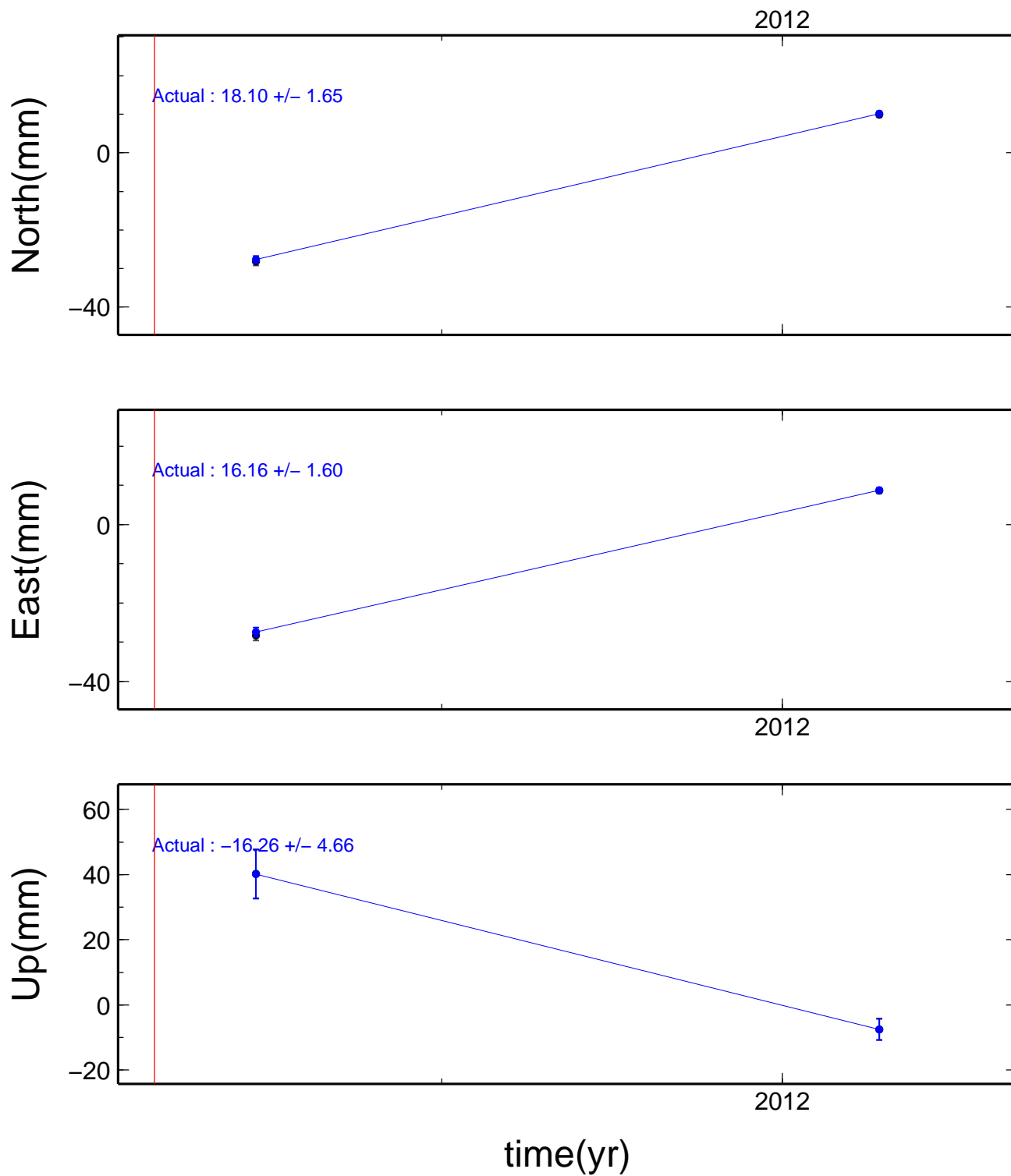
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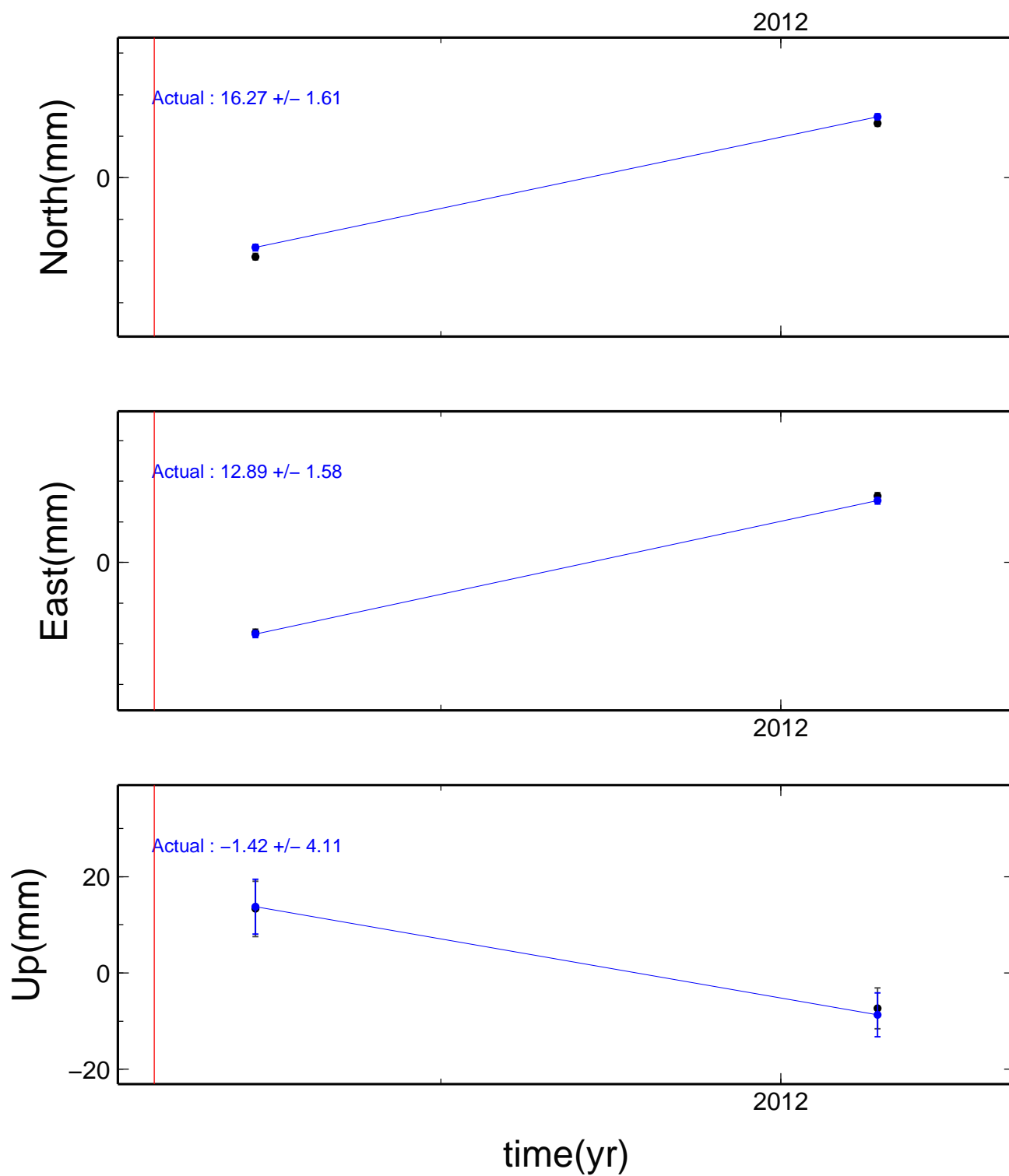
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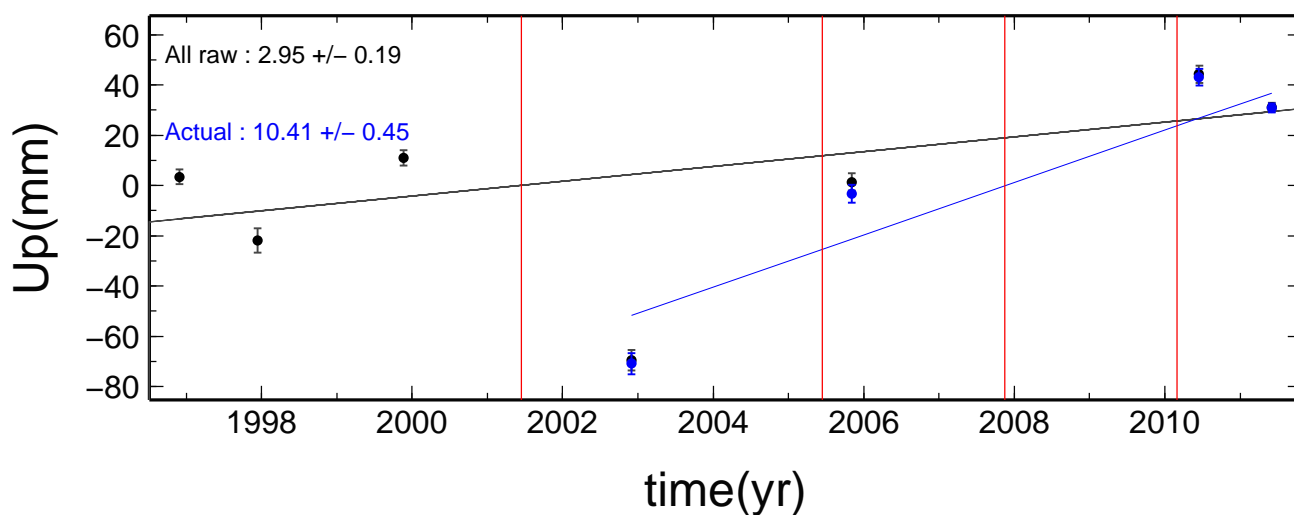
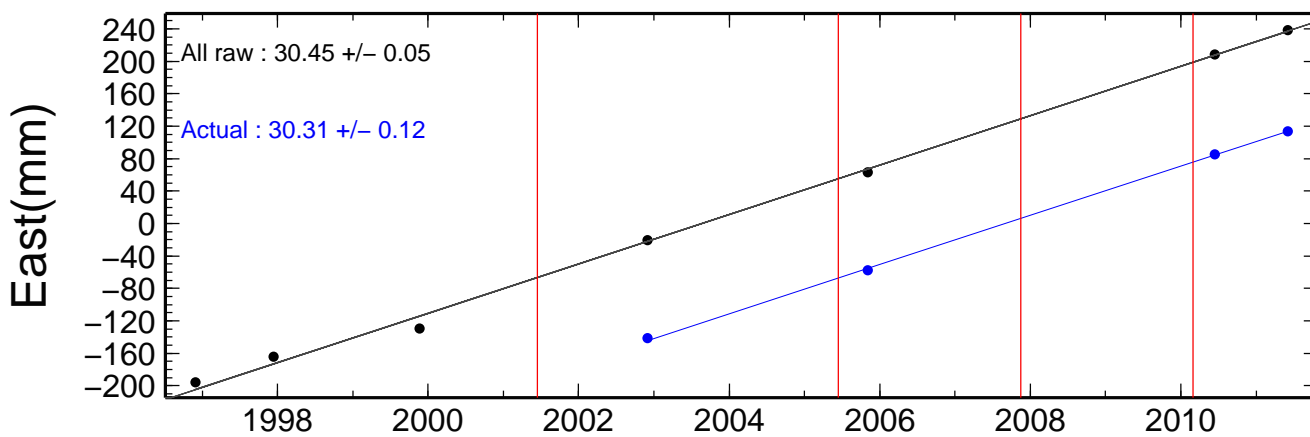
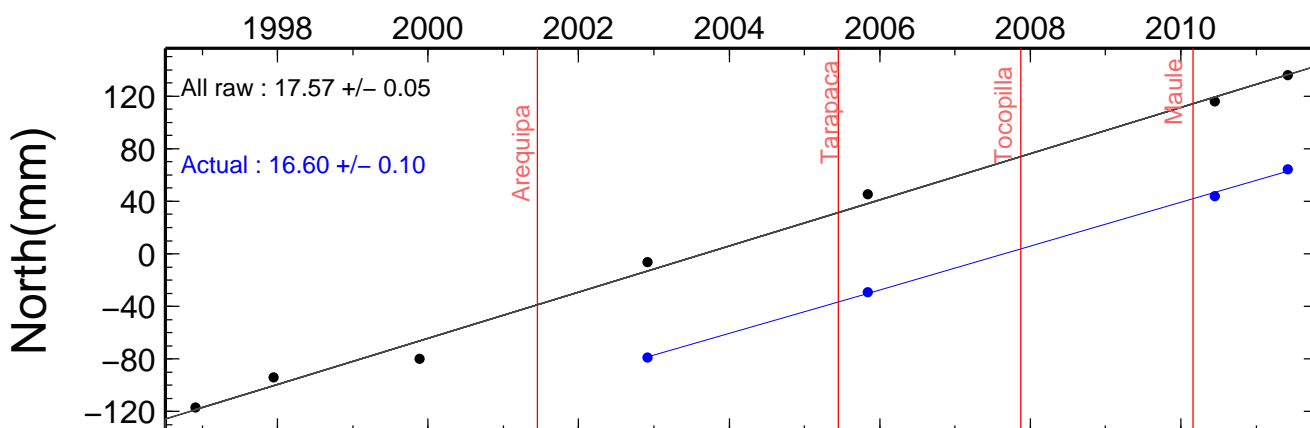
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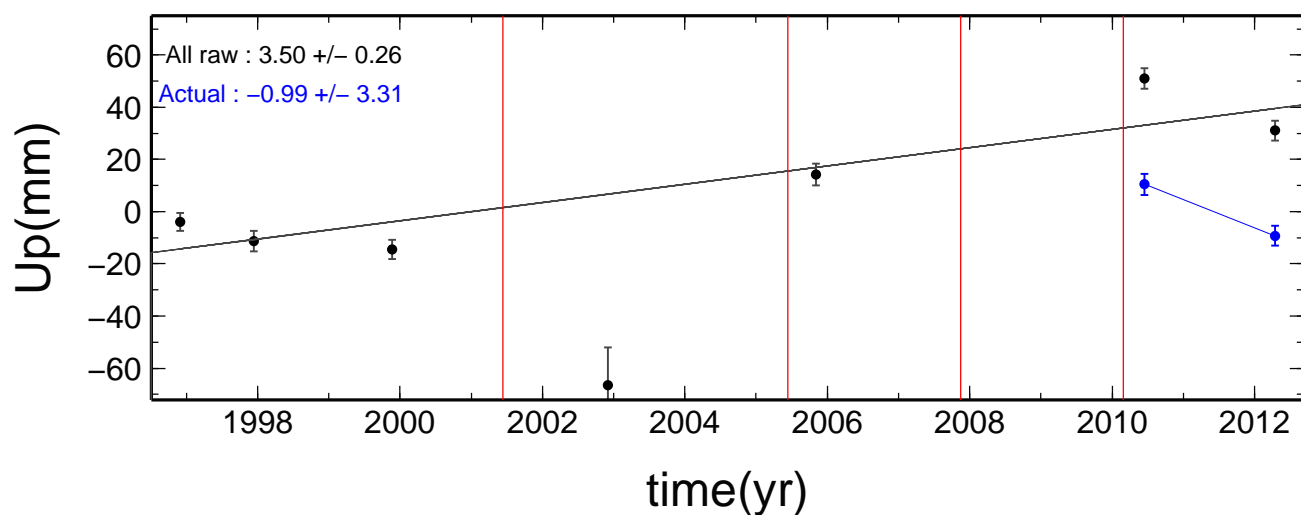
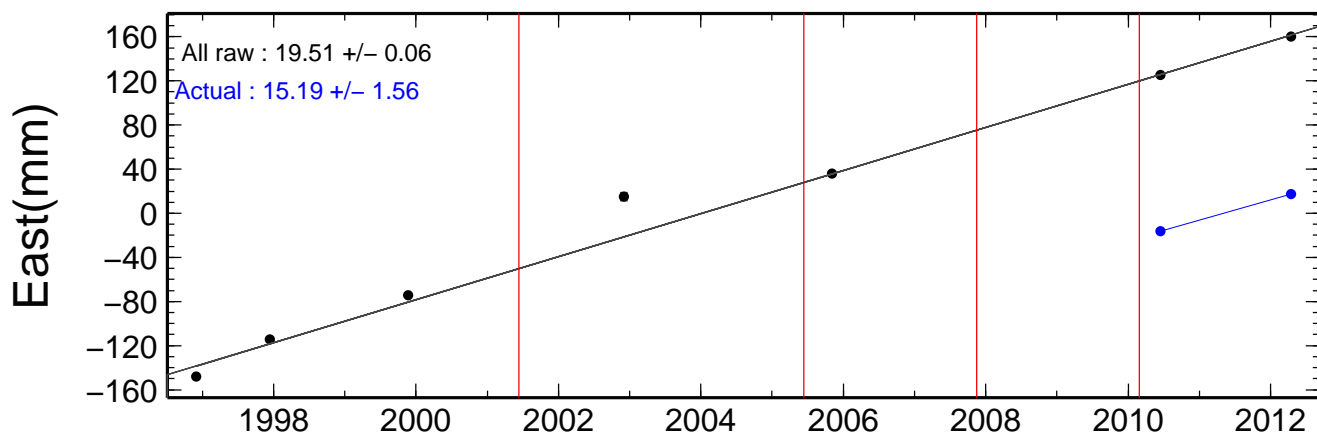
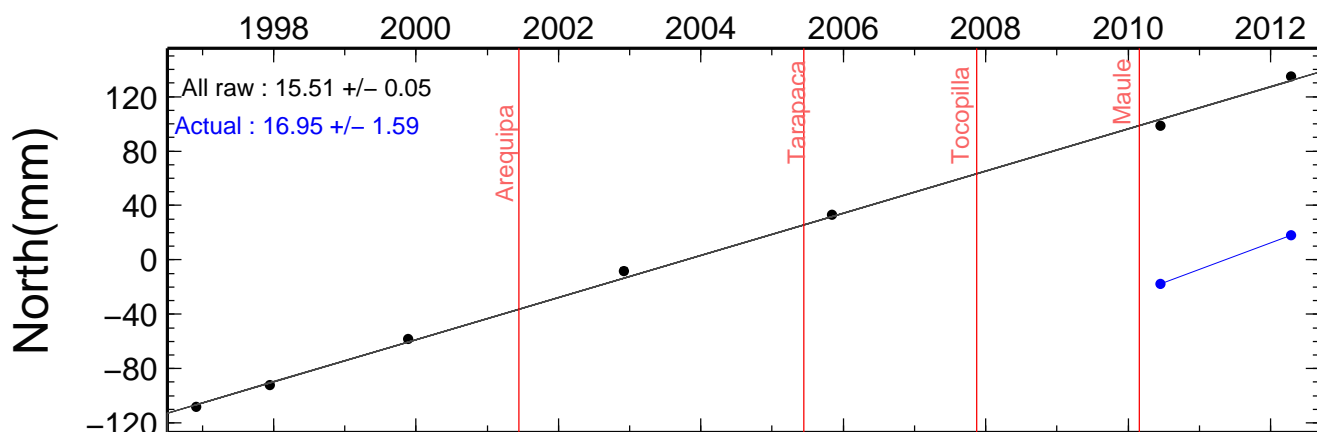
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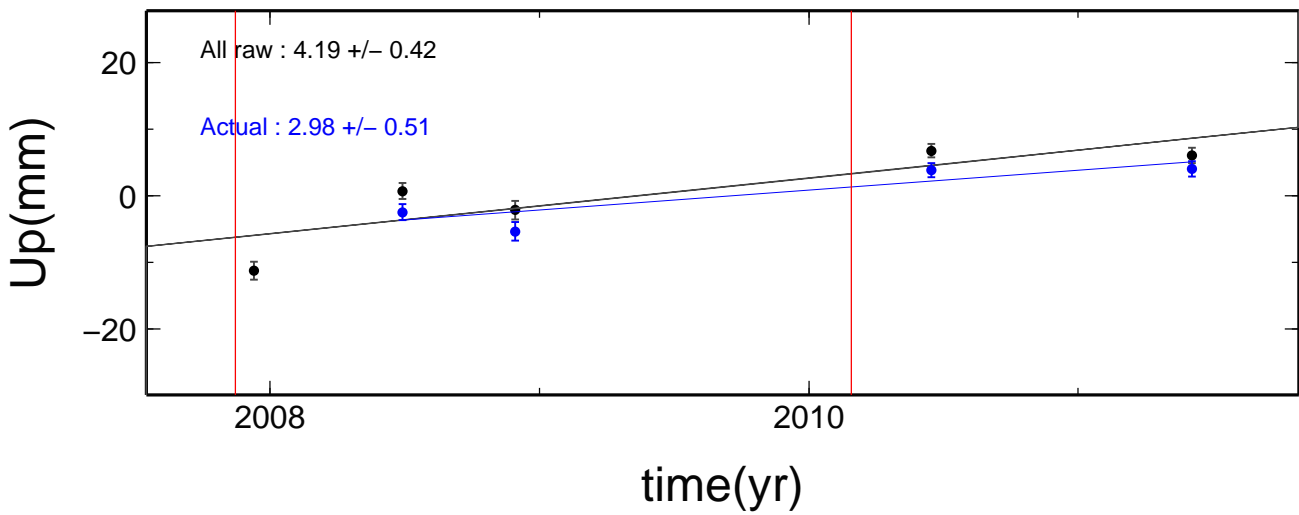
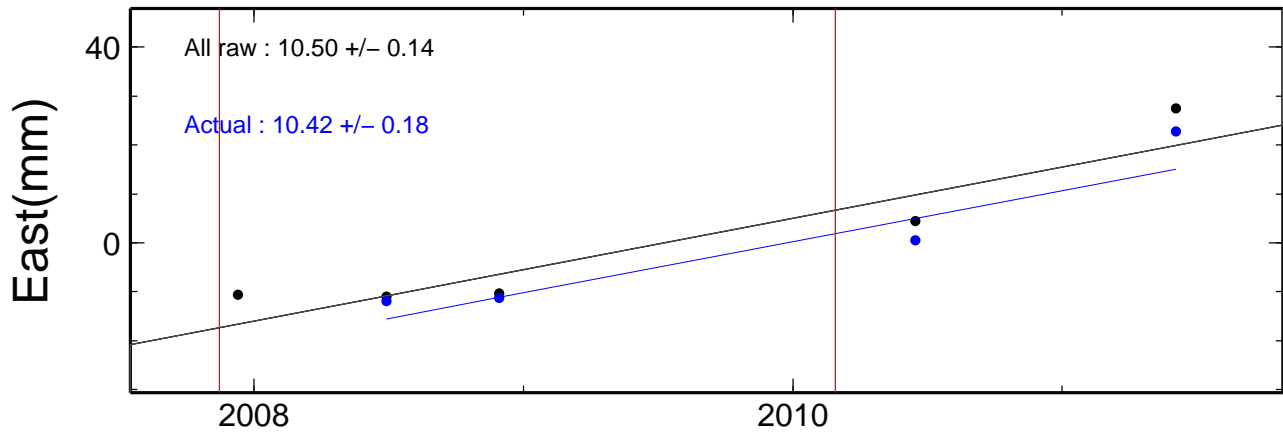
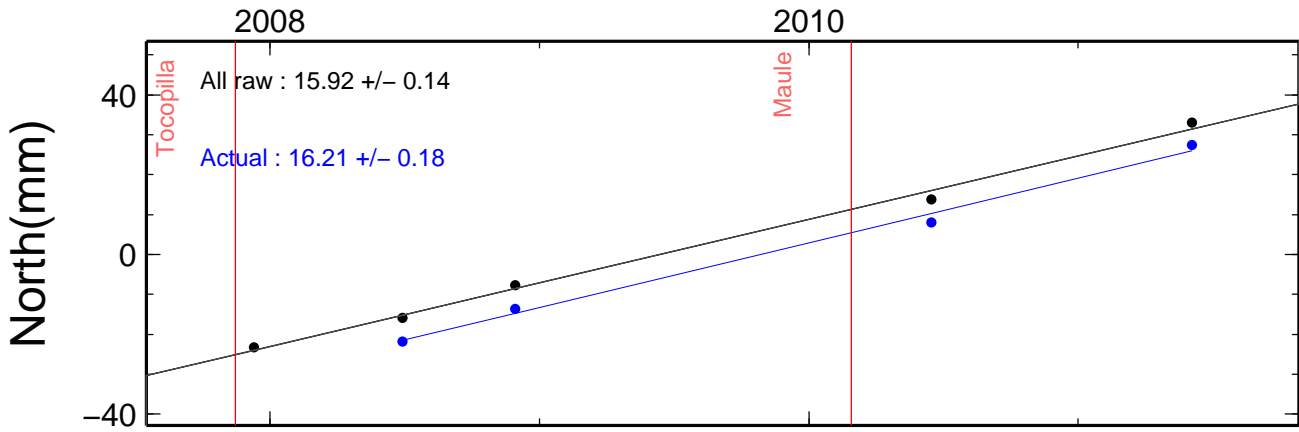
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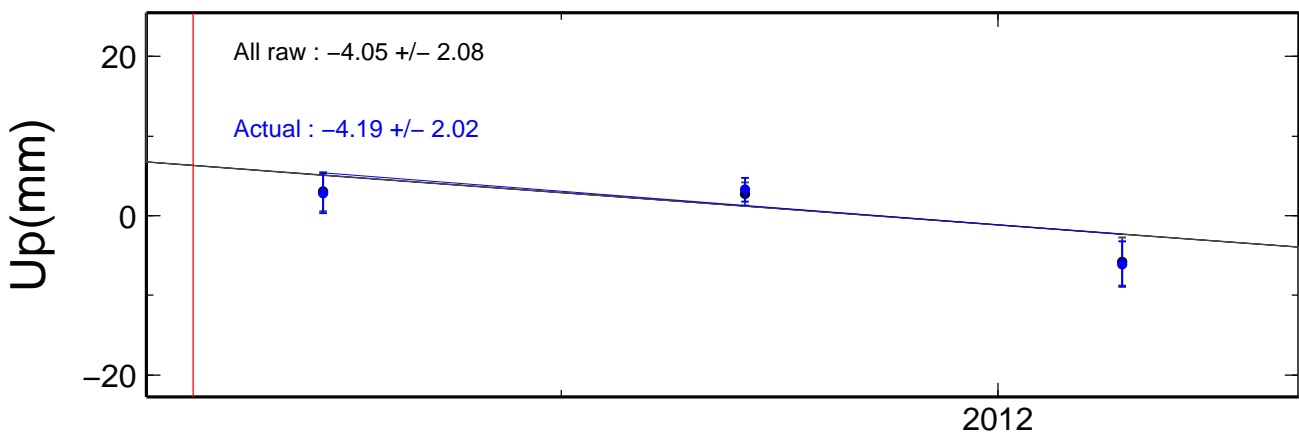
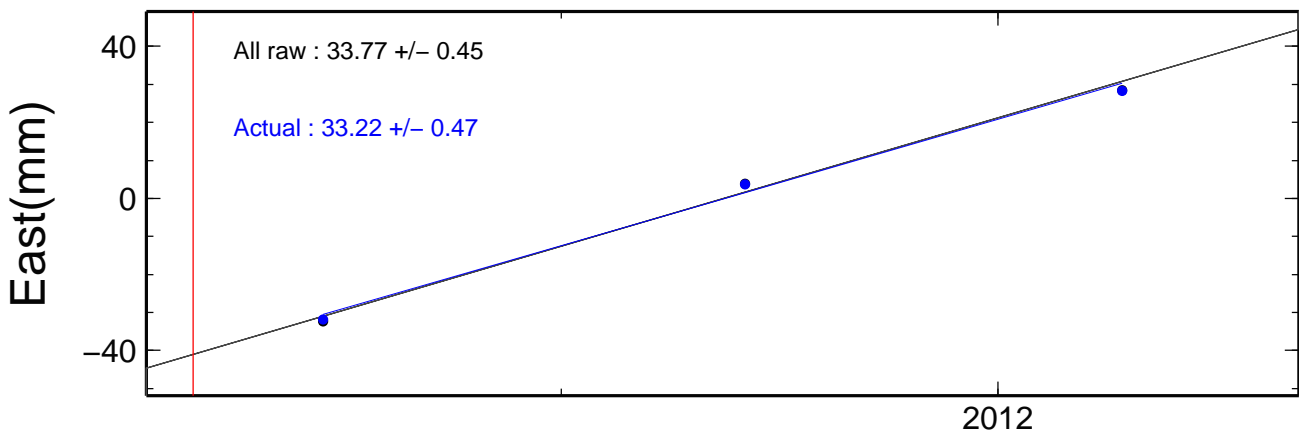
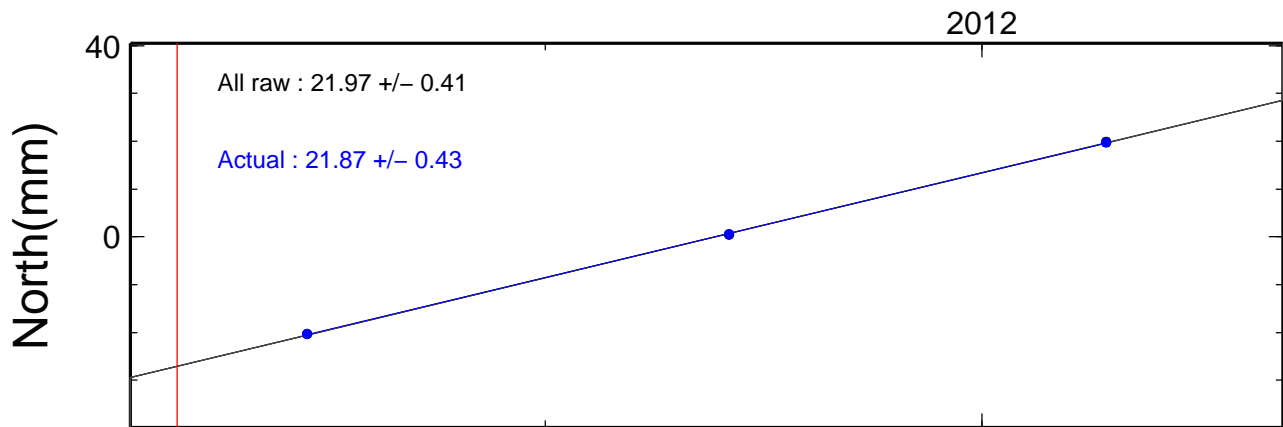
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CBAA

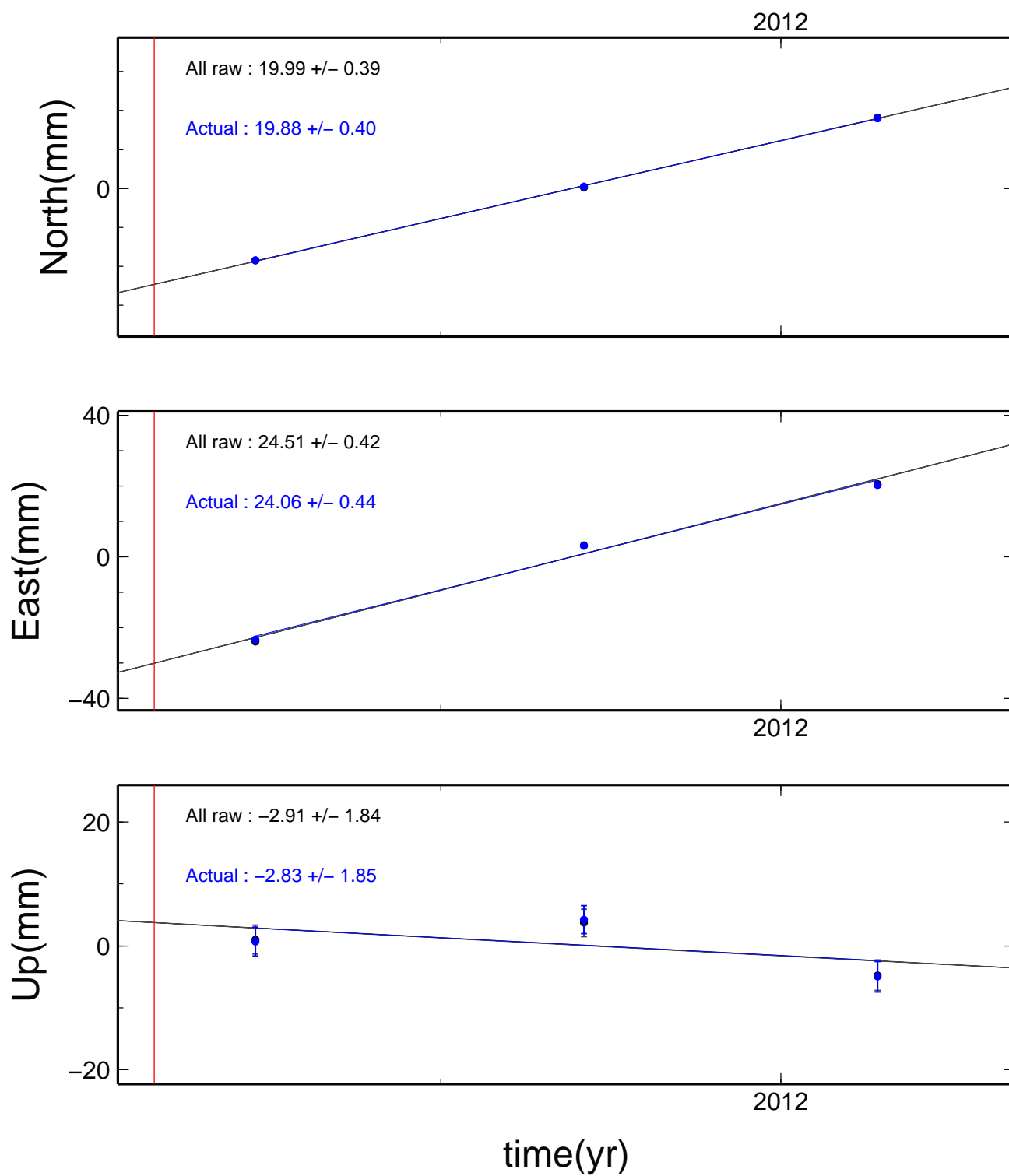


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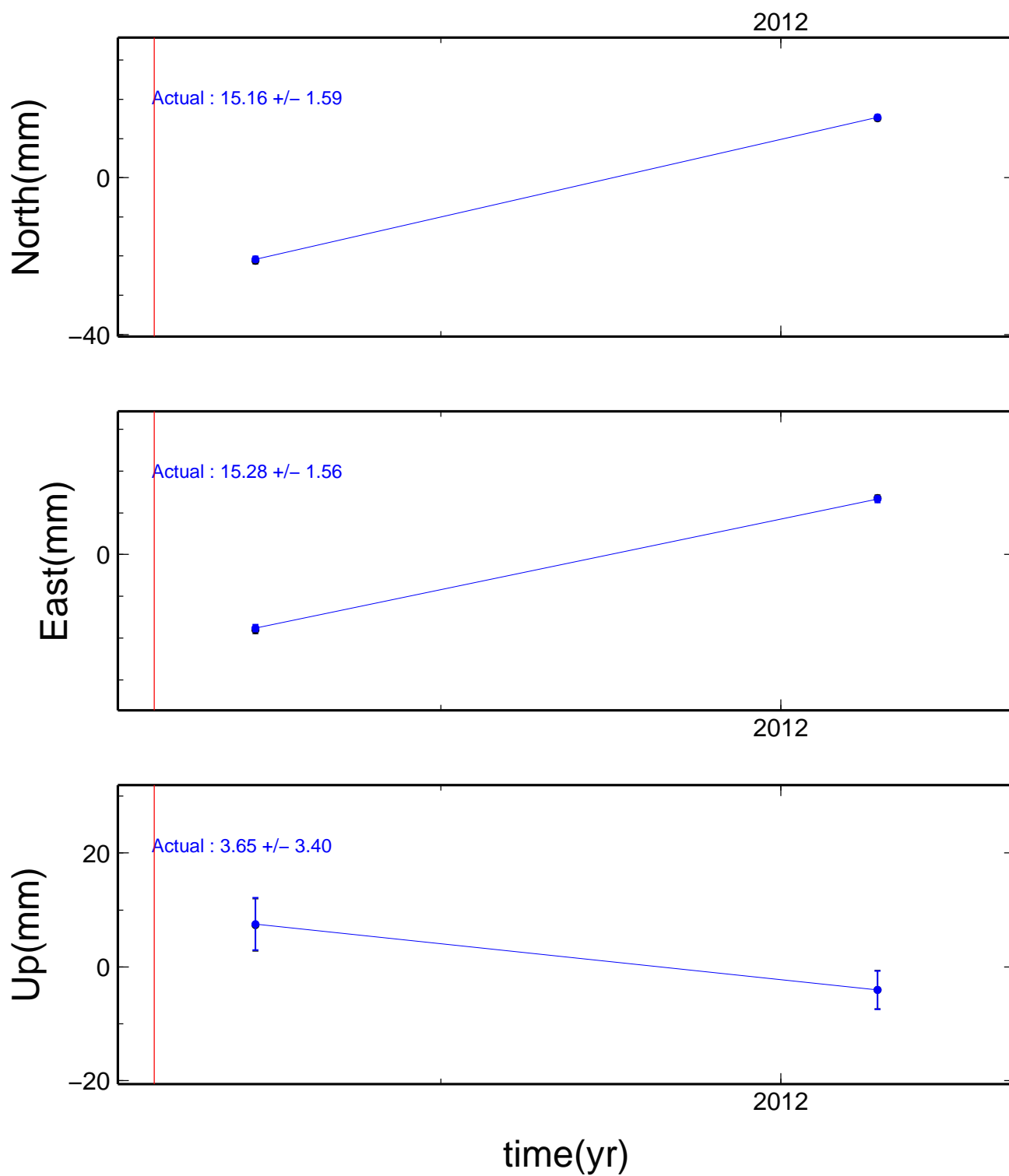


time(yr)

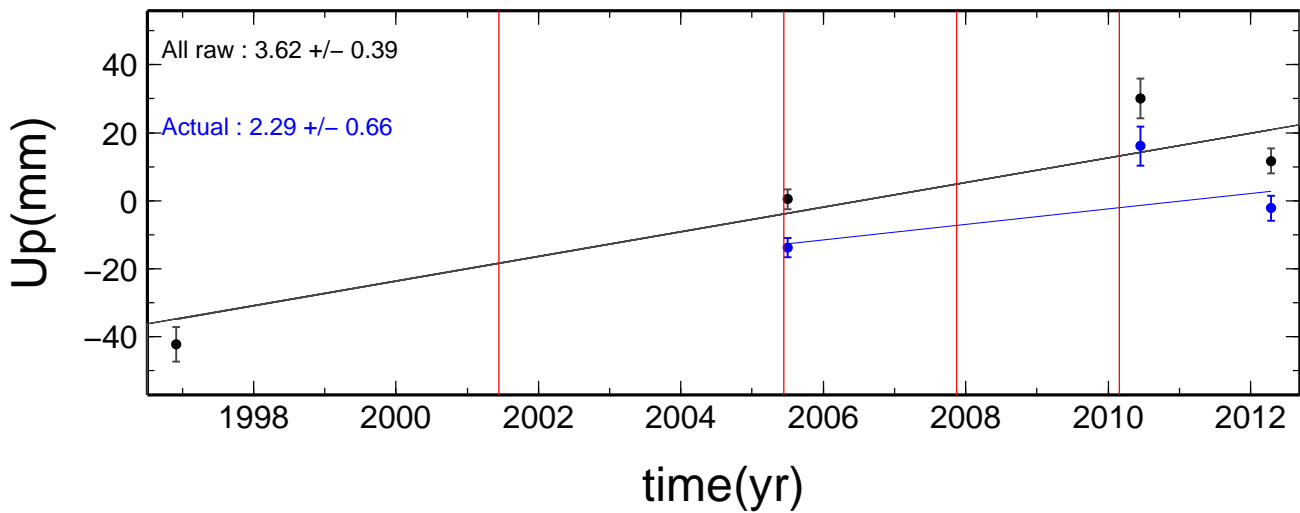
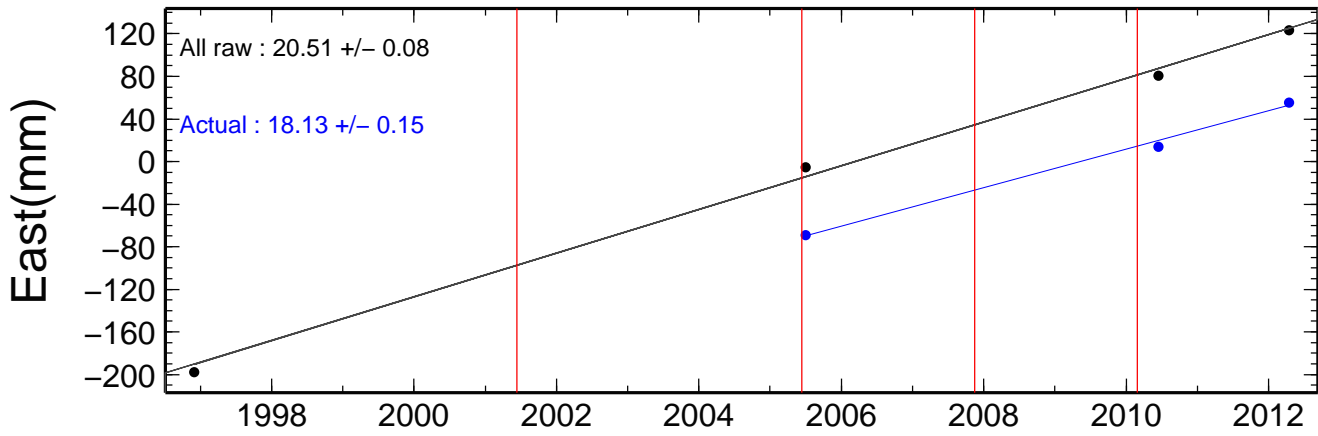
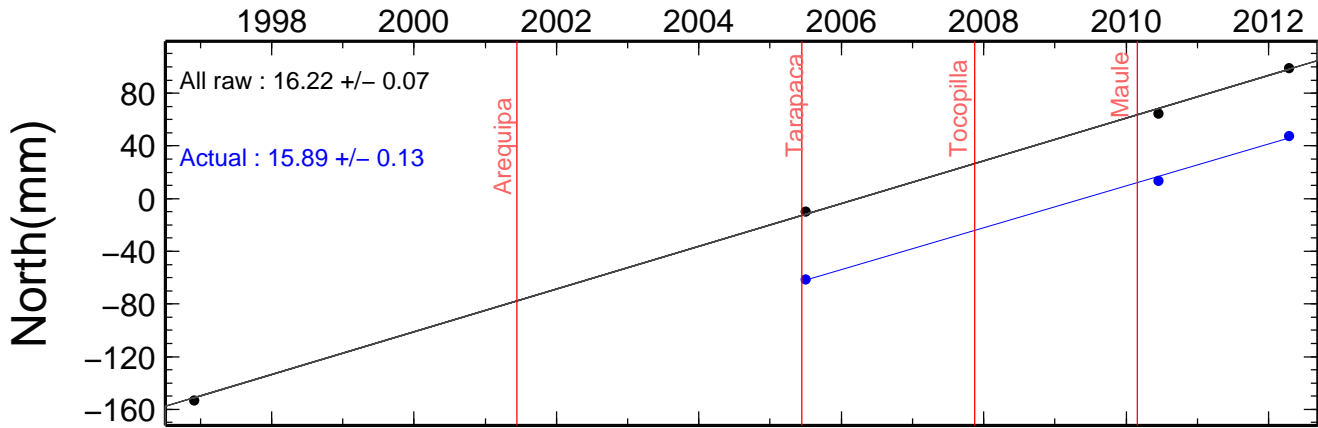
CLPL



CO20

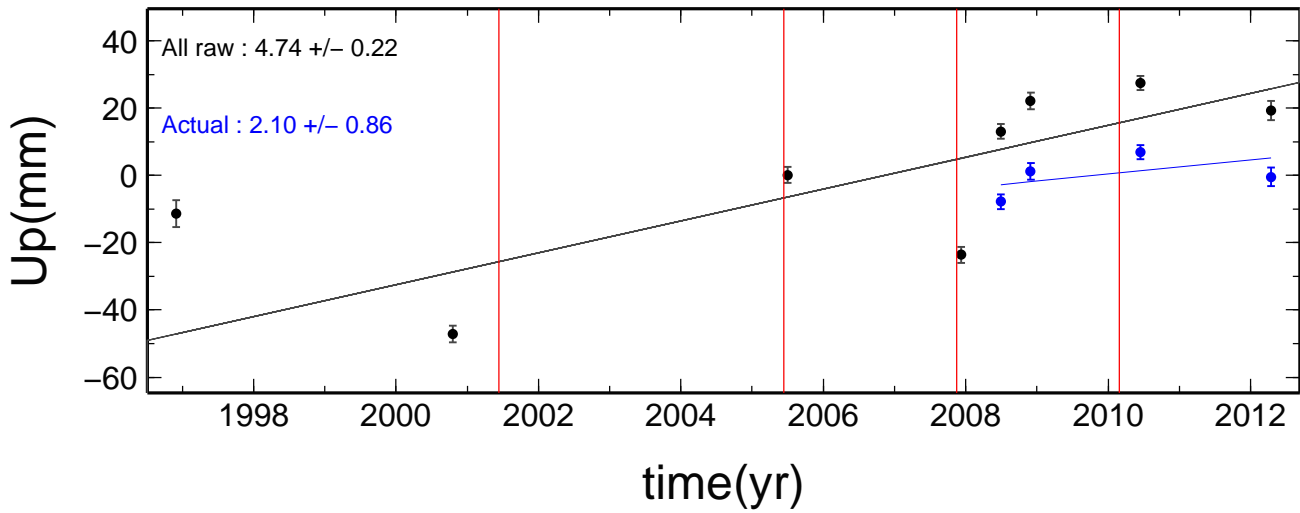
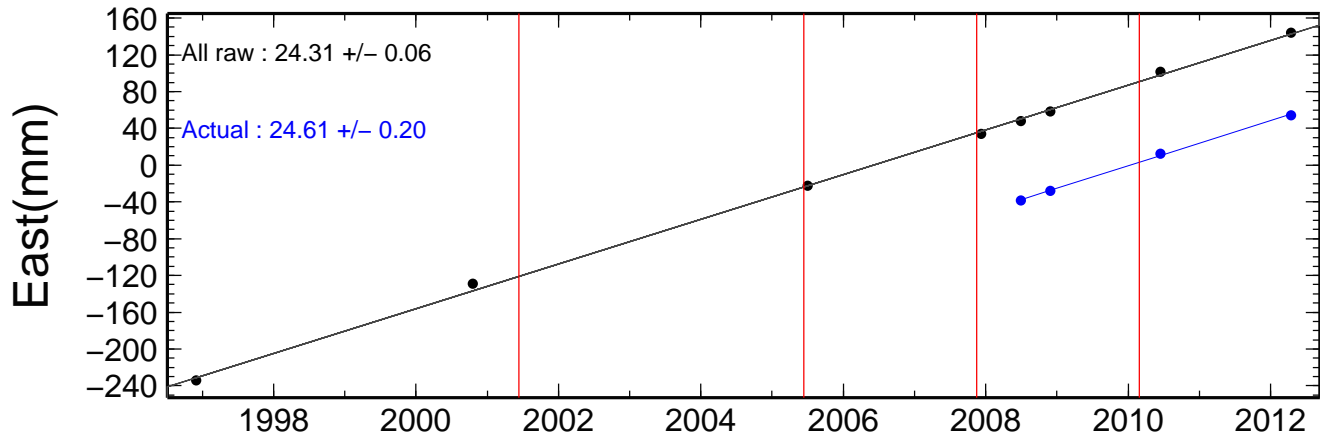
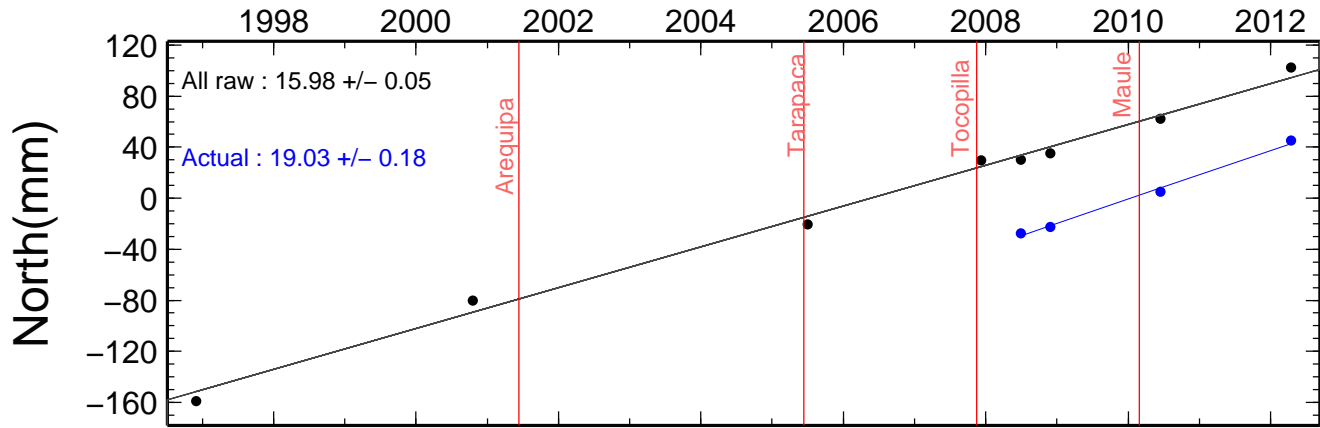


CO40

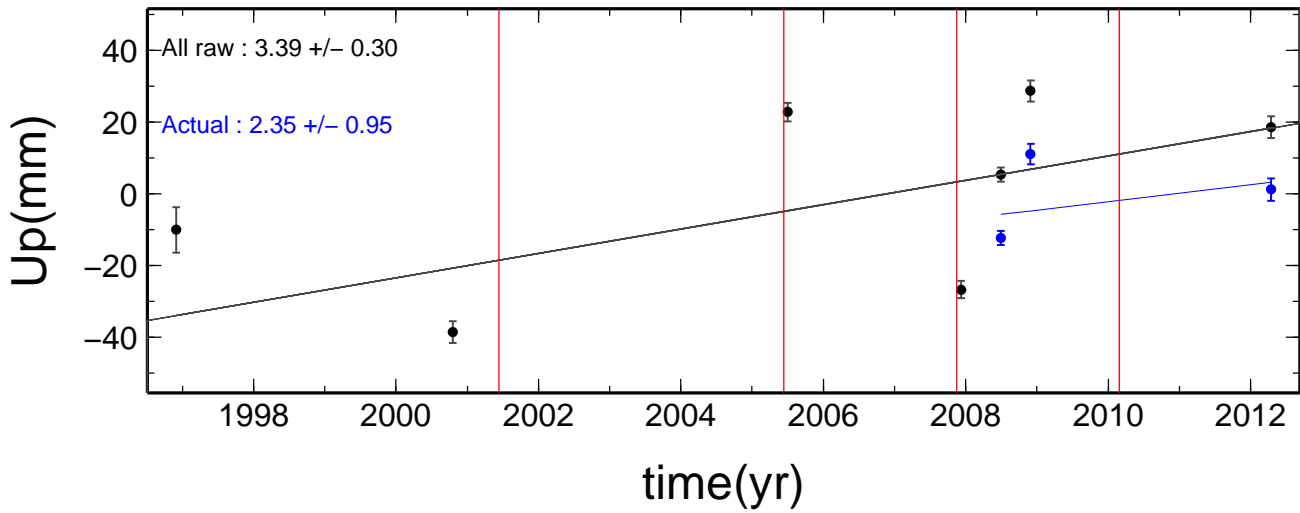
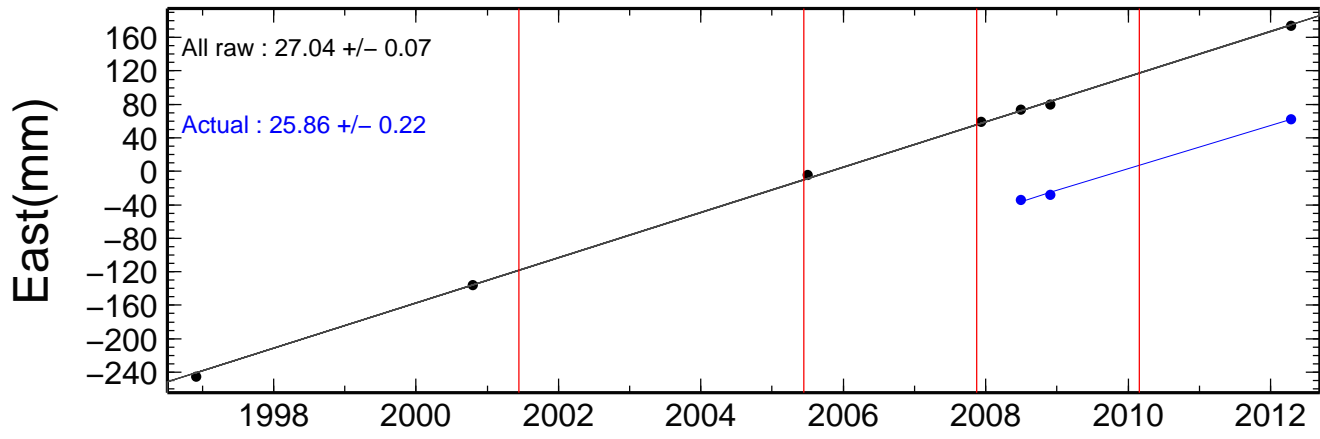
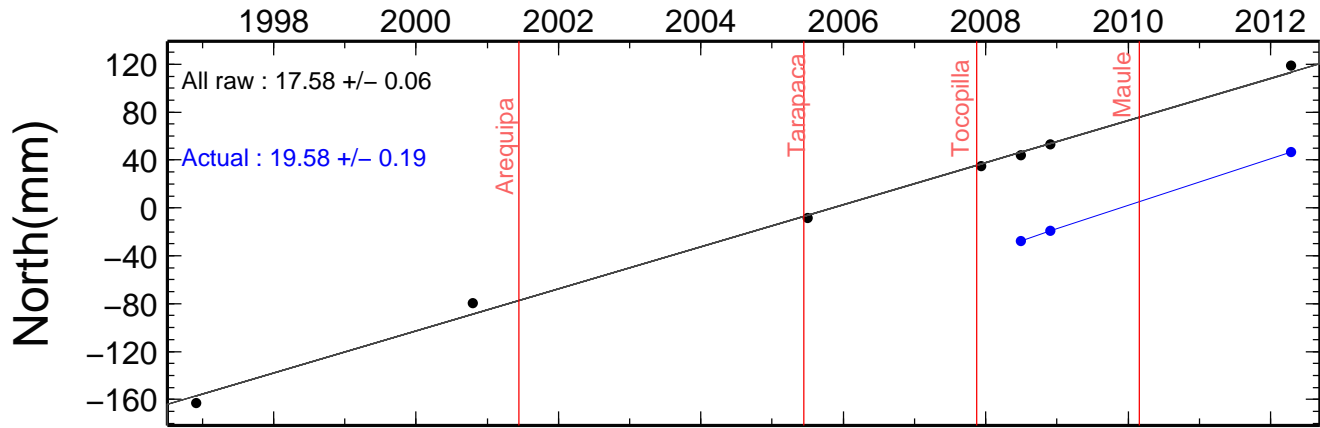


time(yr)

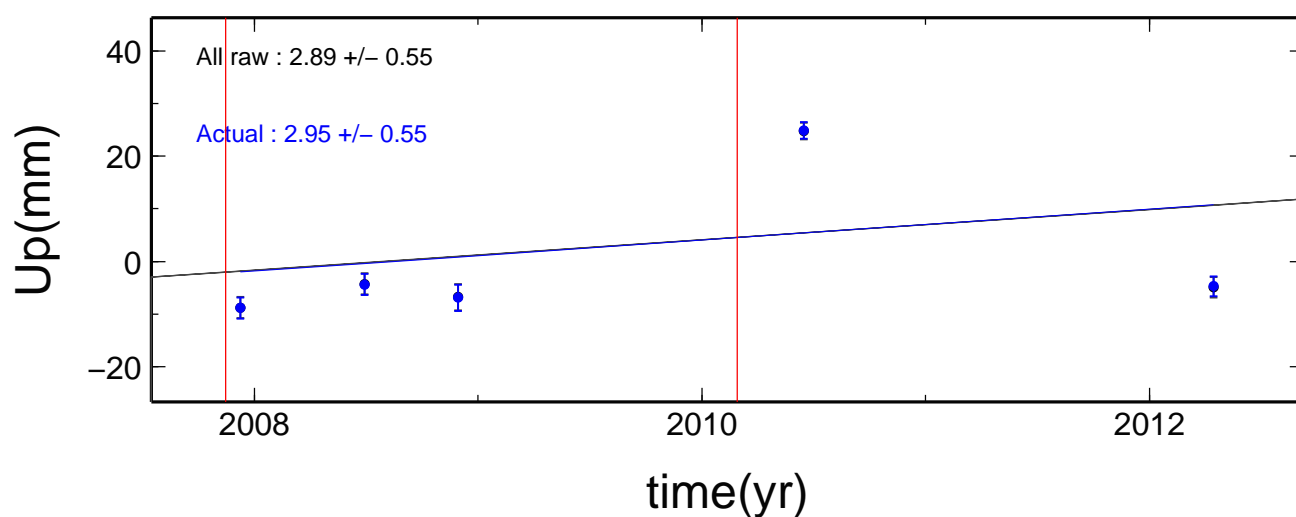
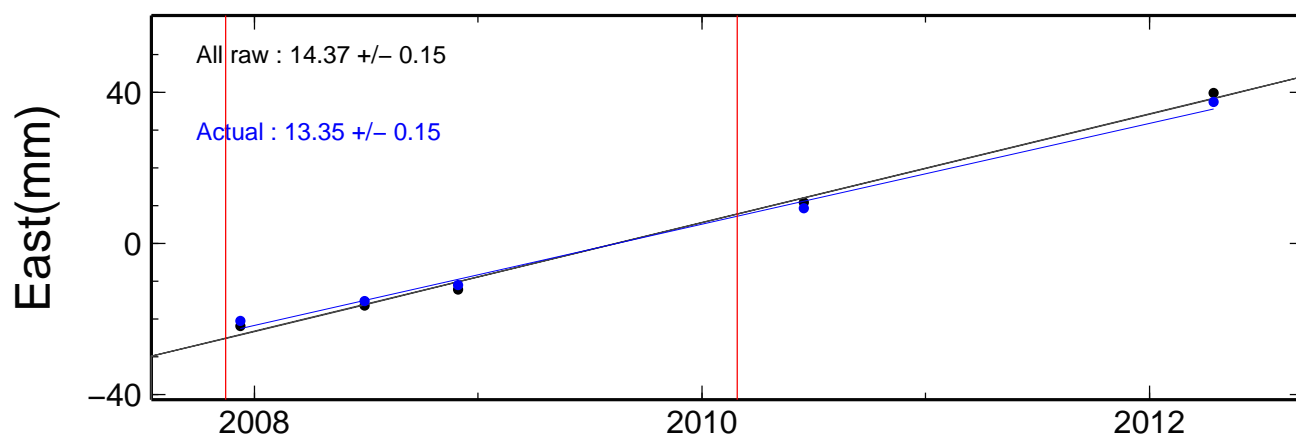
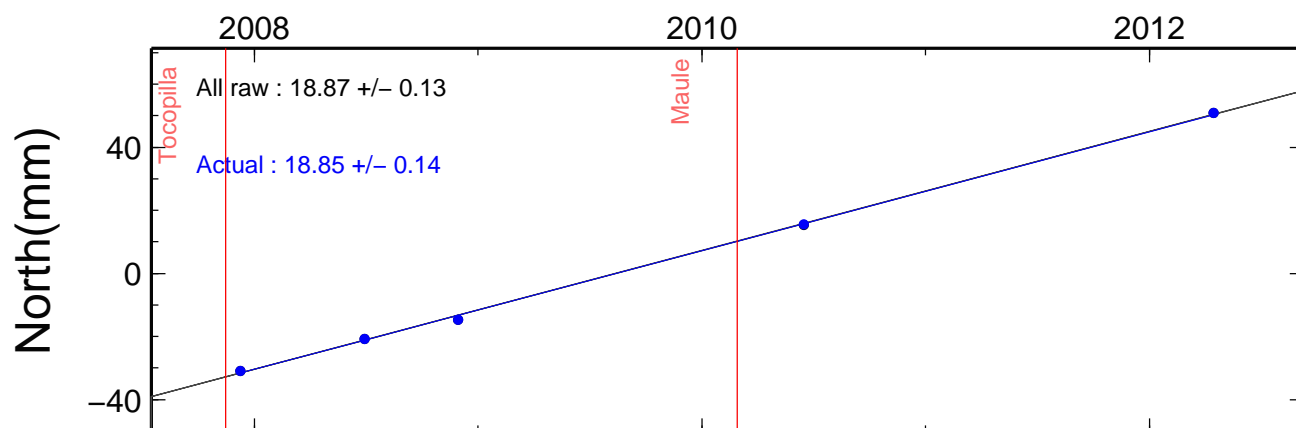
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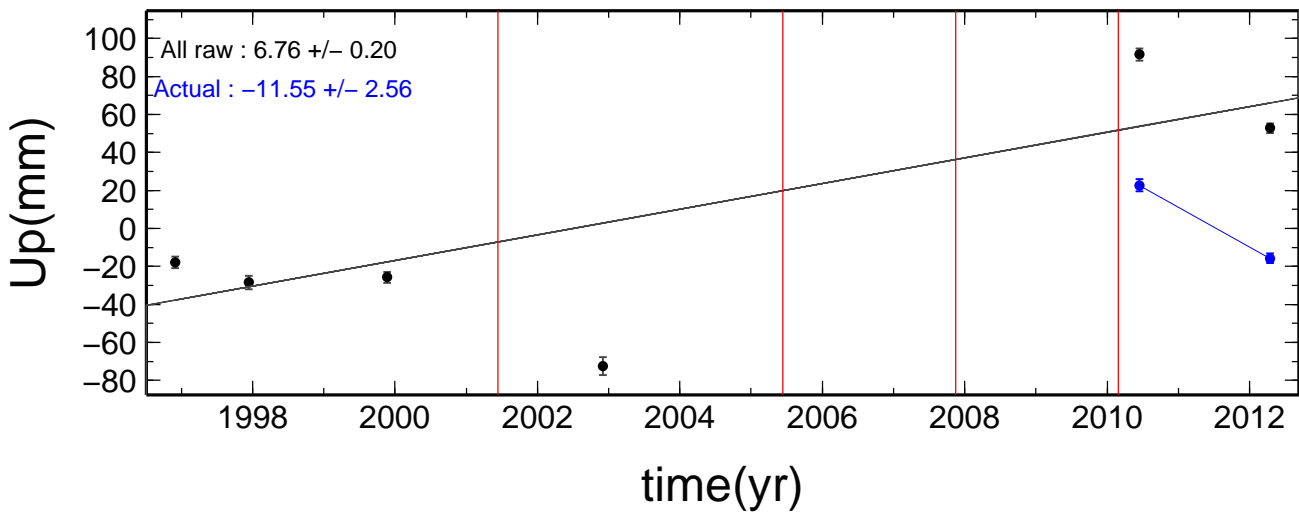
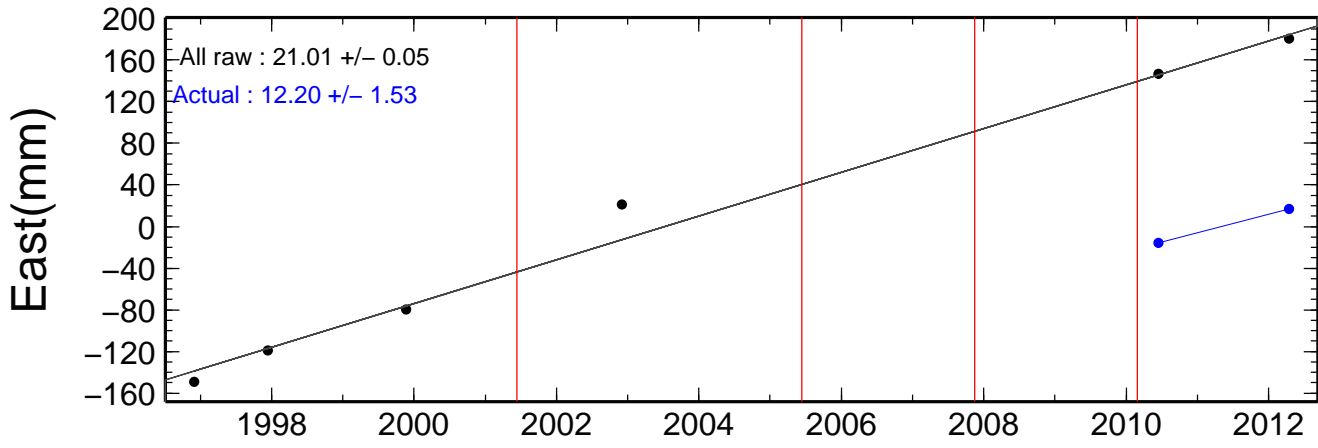
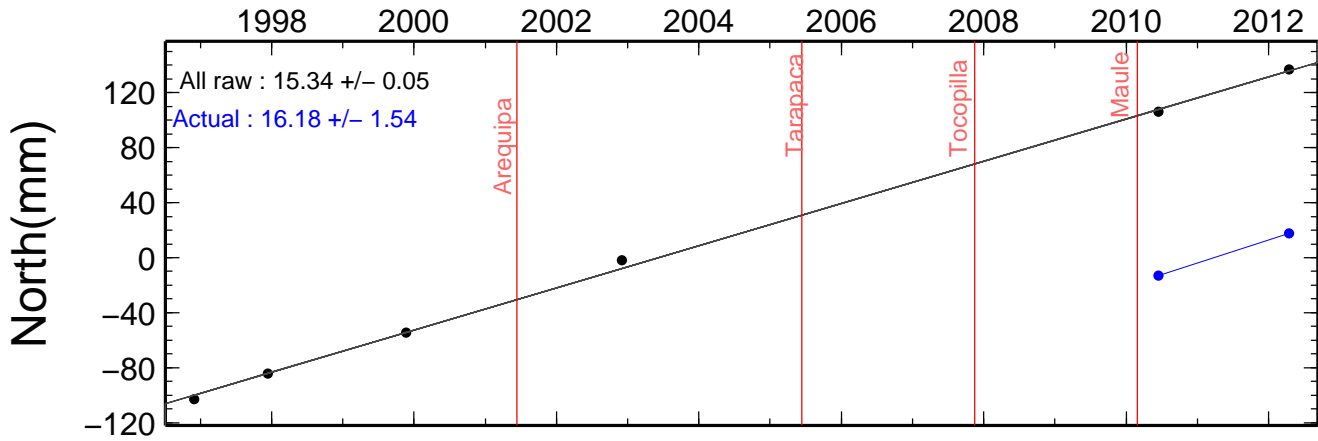
CO60



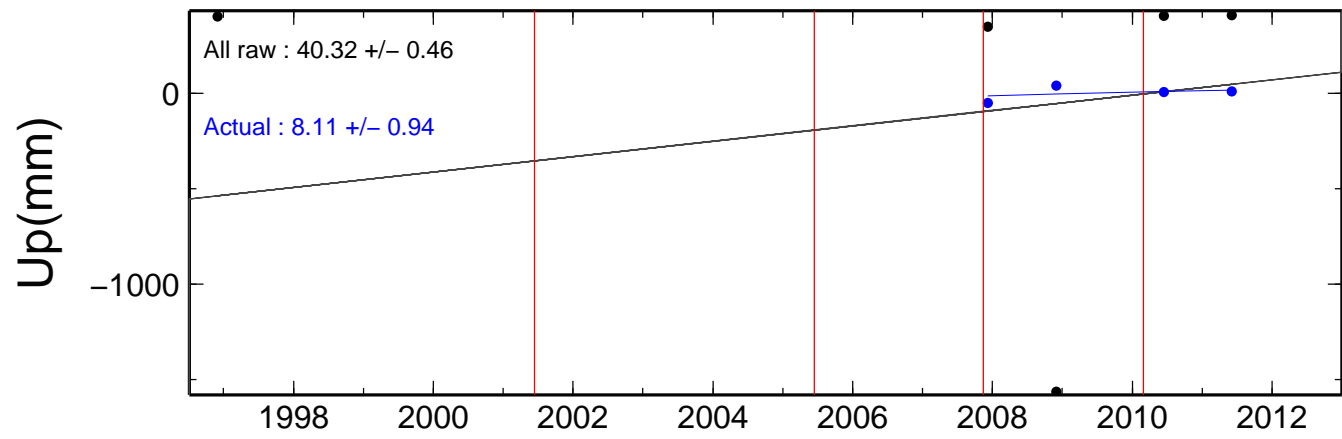
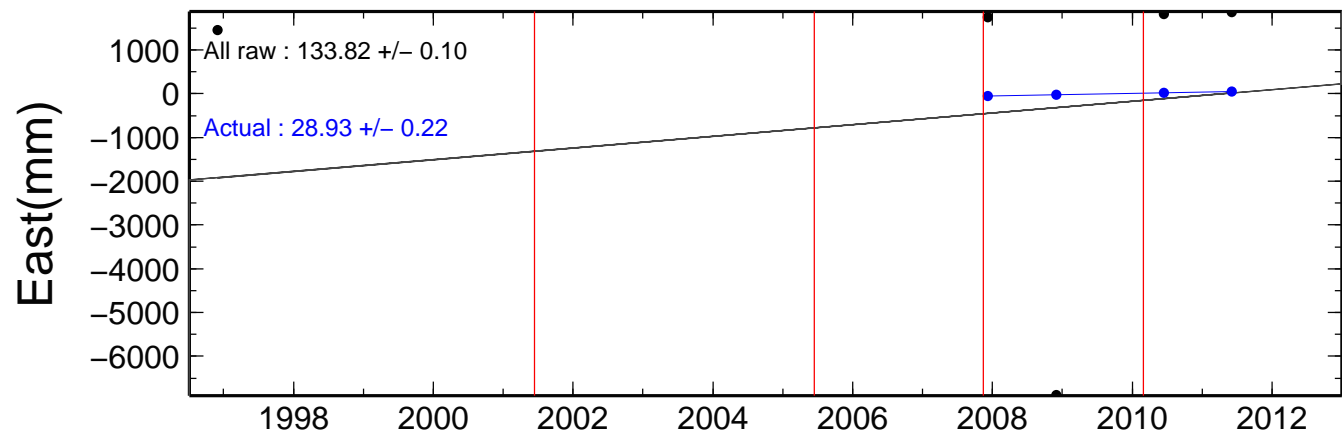
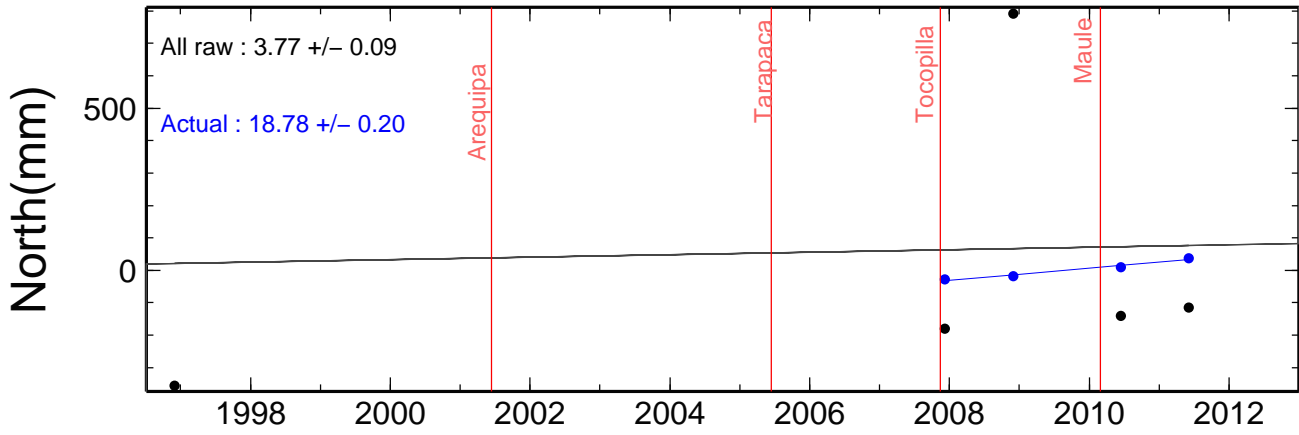
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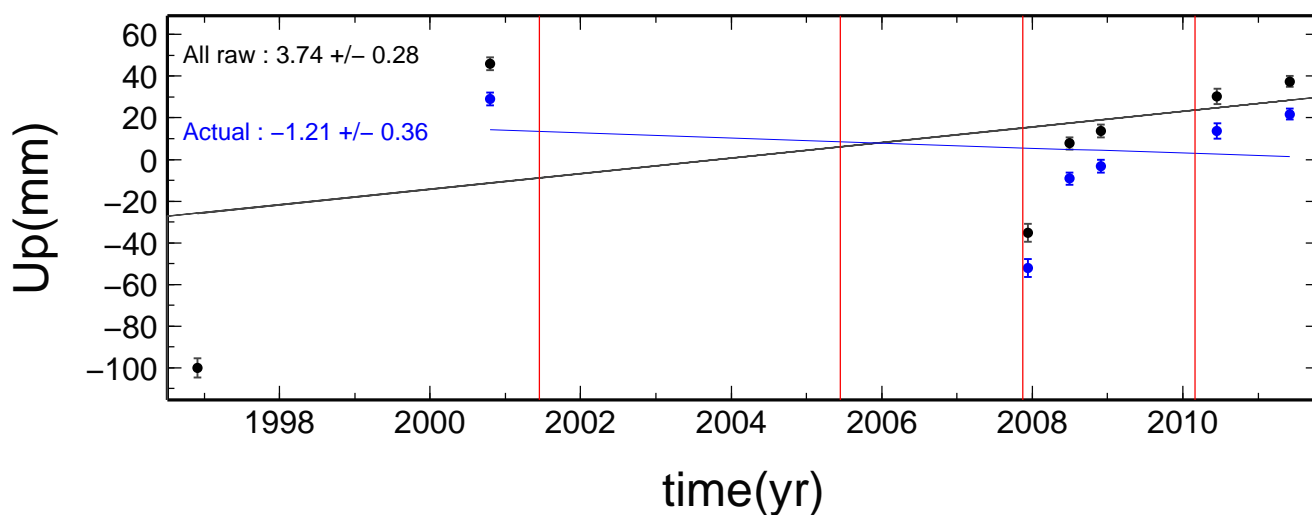
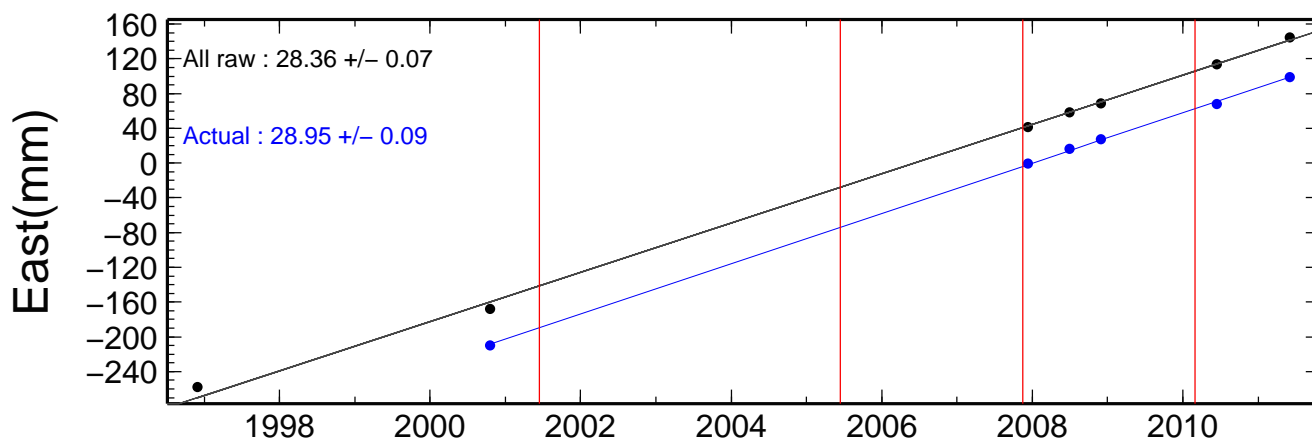
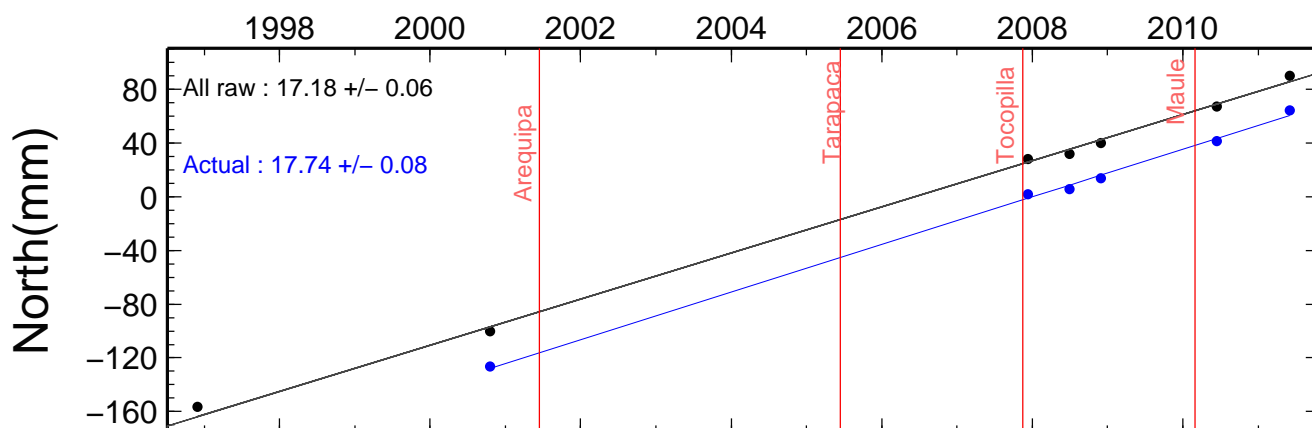
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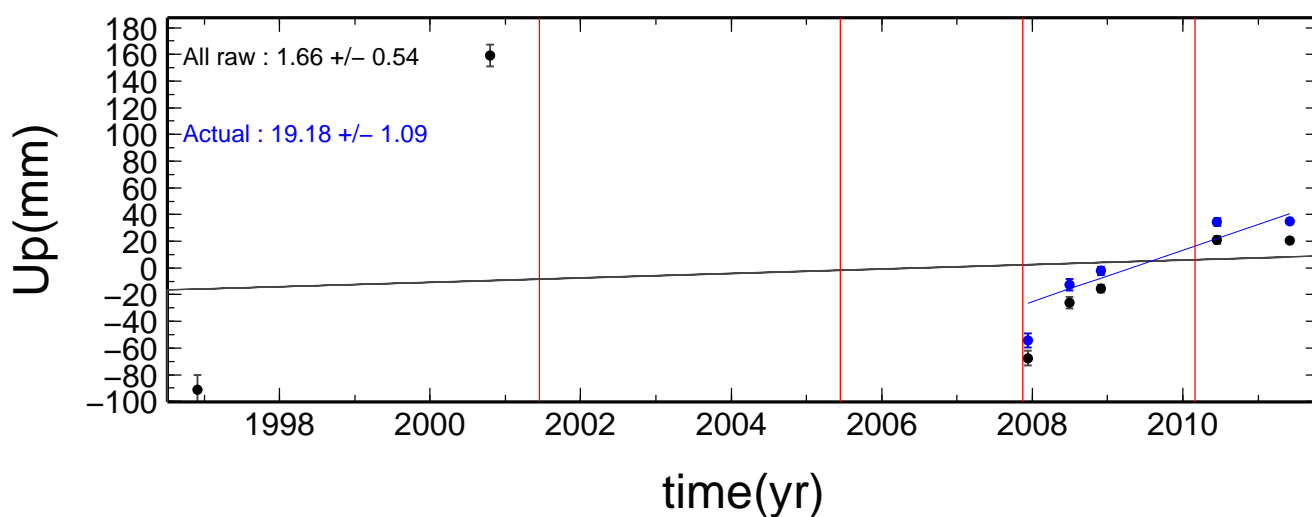
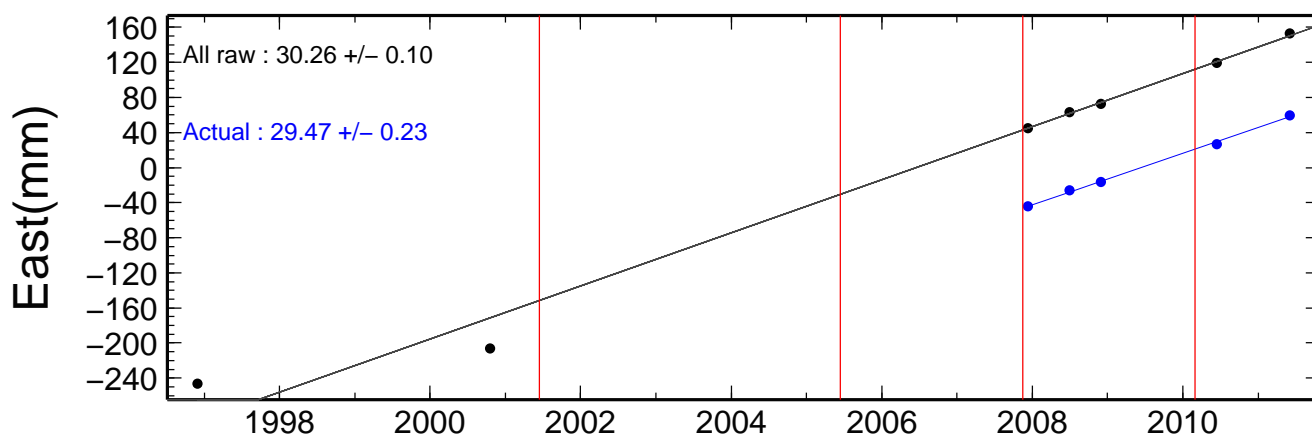
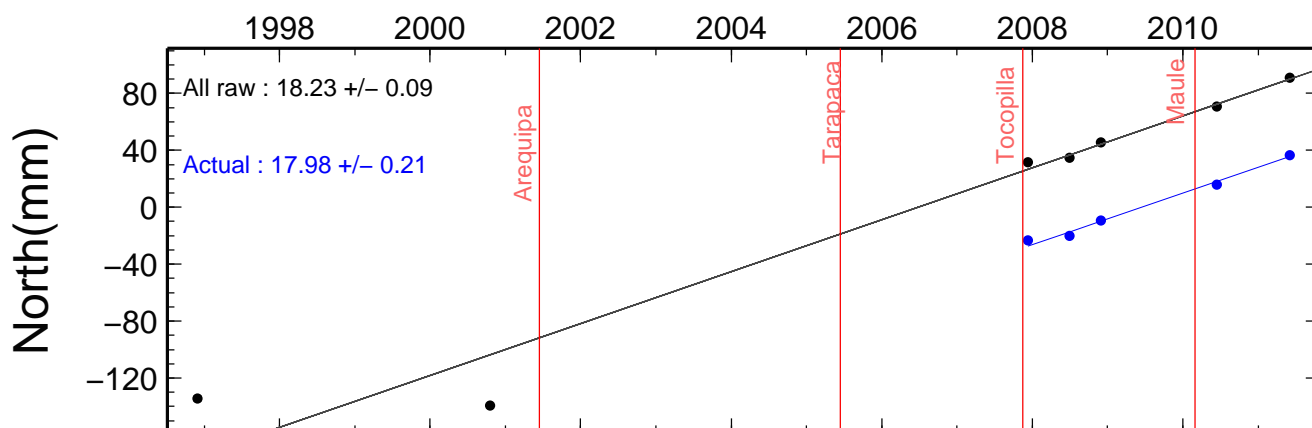
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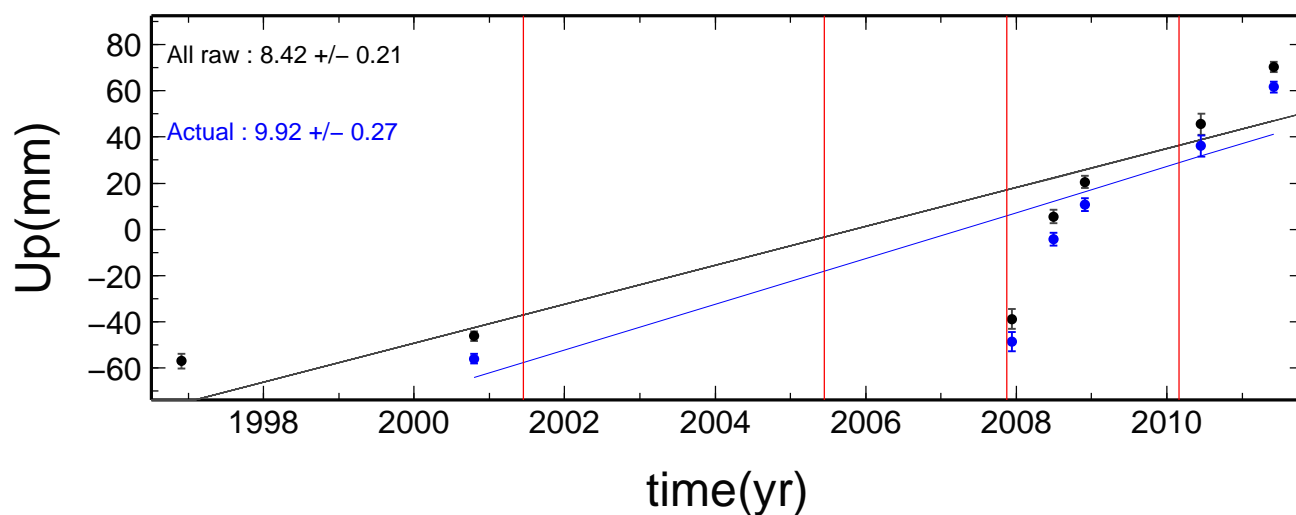
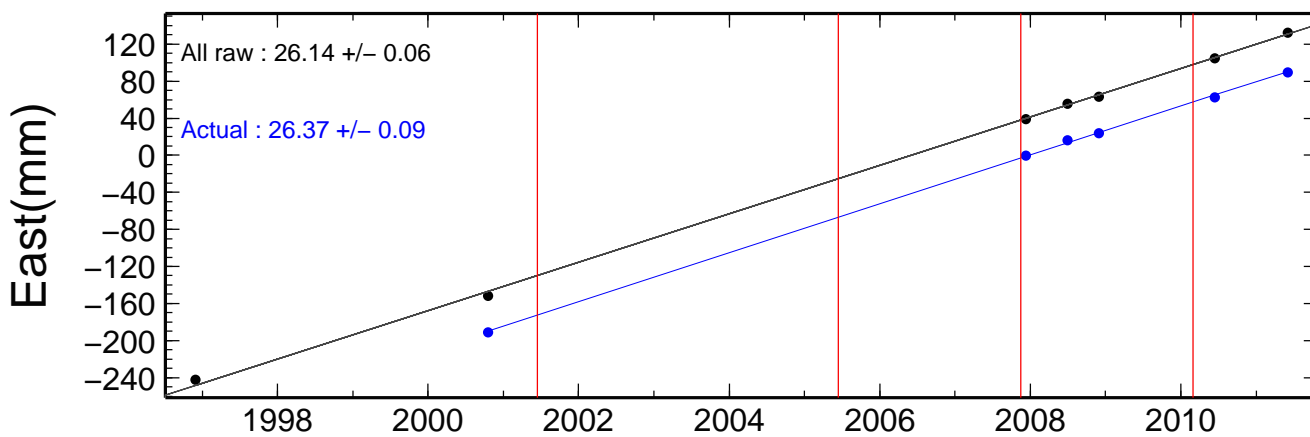
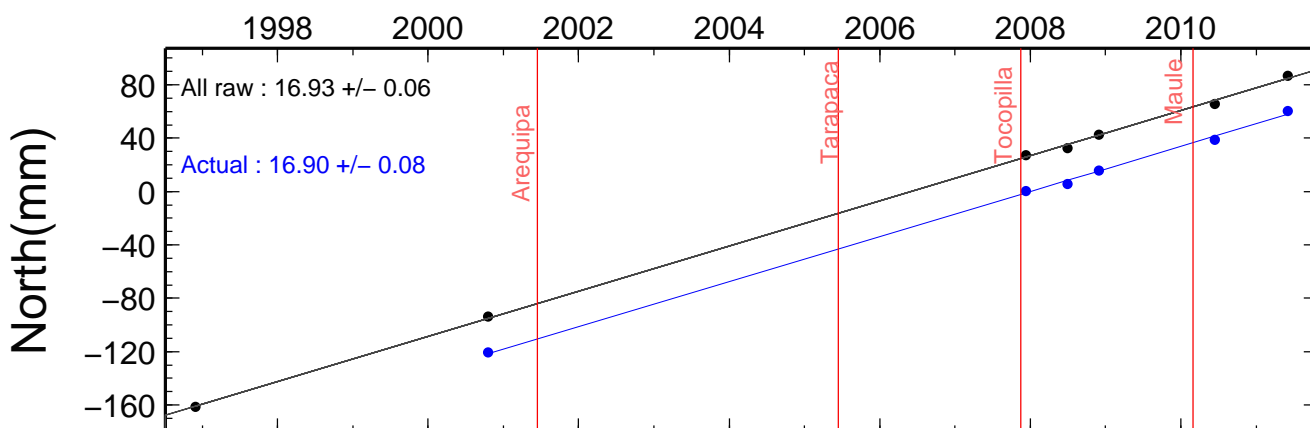
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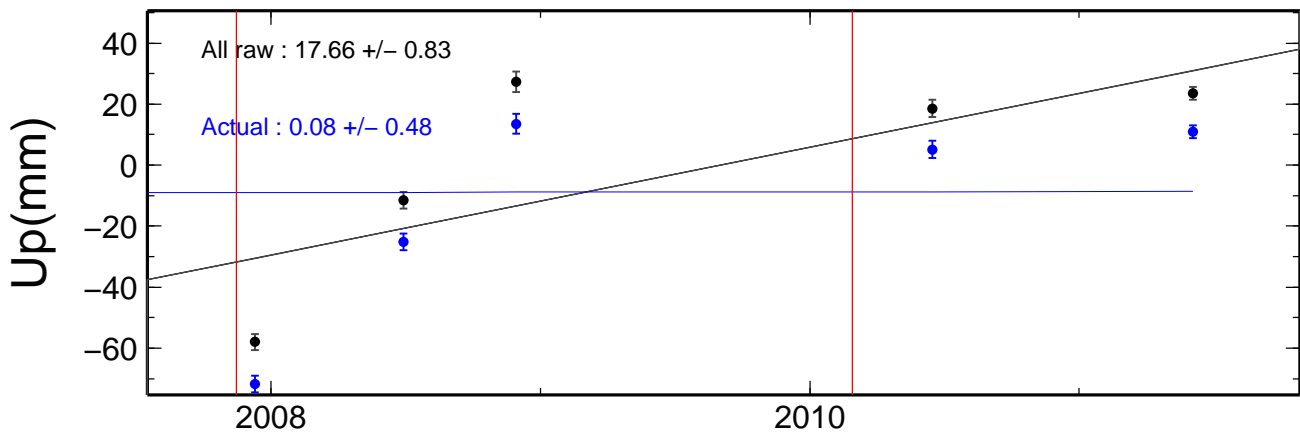
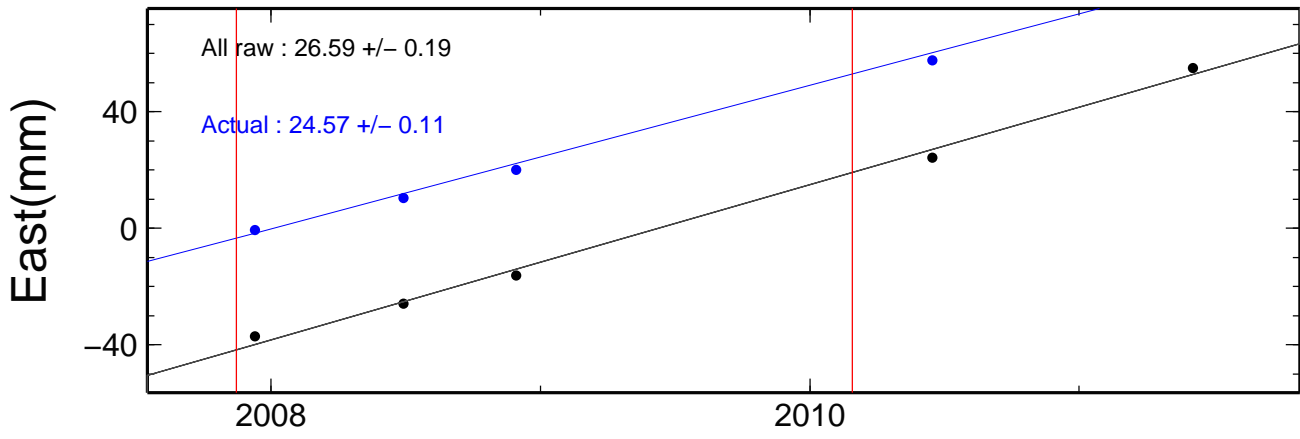
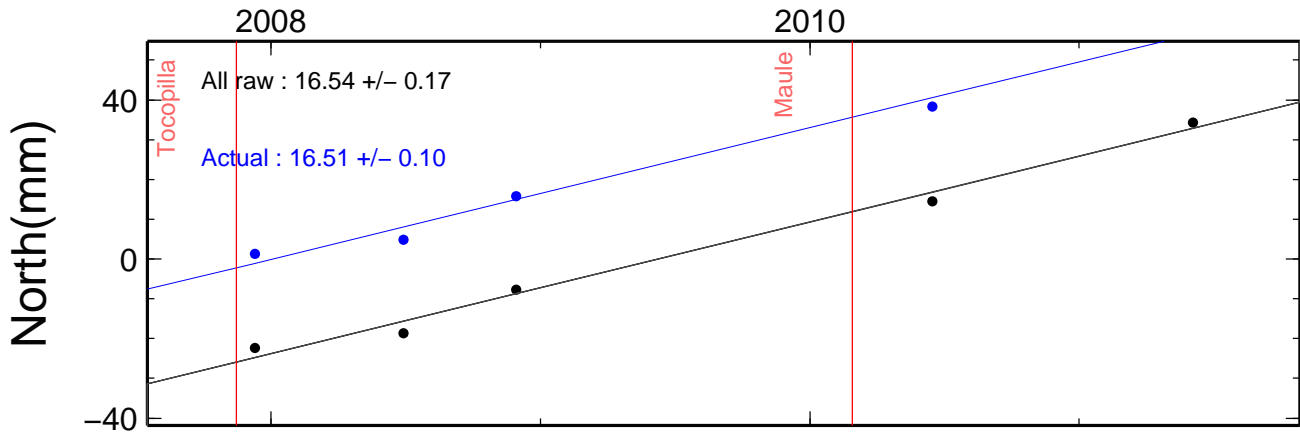
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DO40

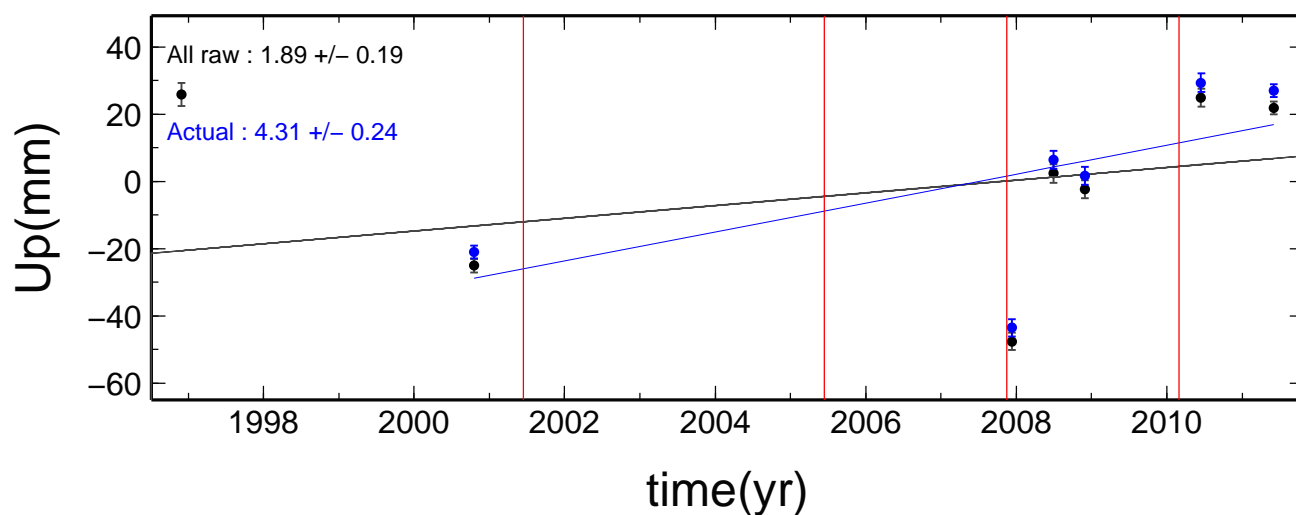
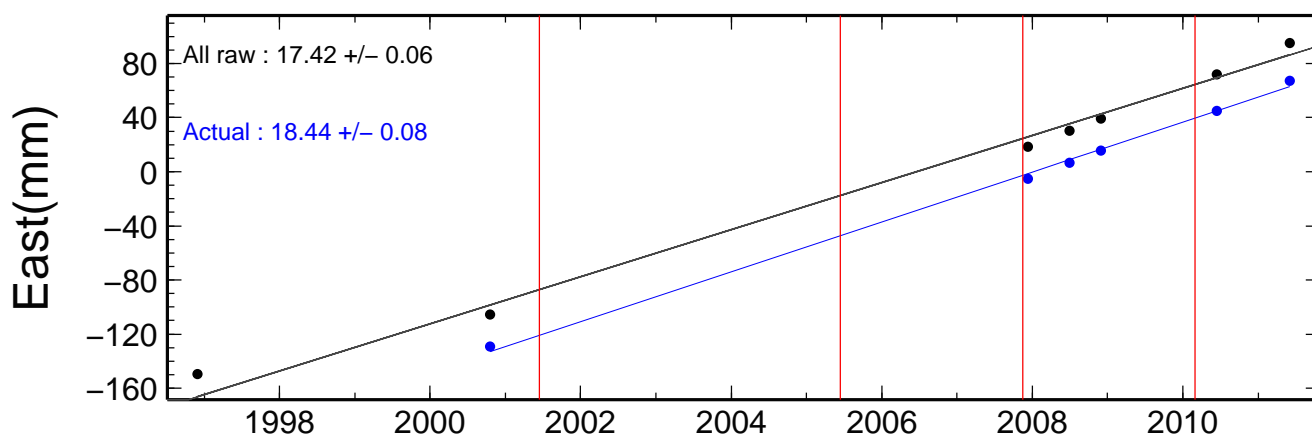
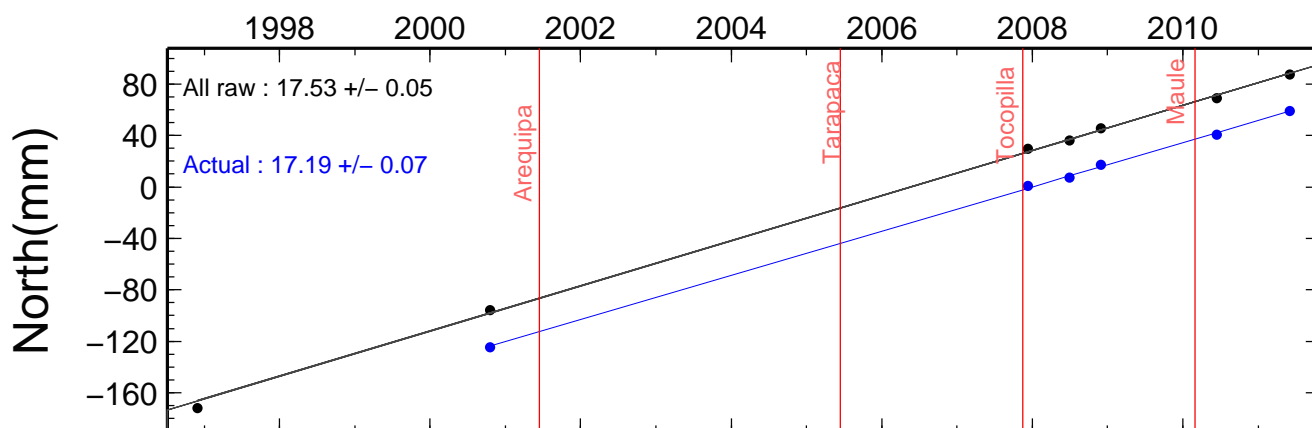


DO50

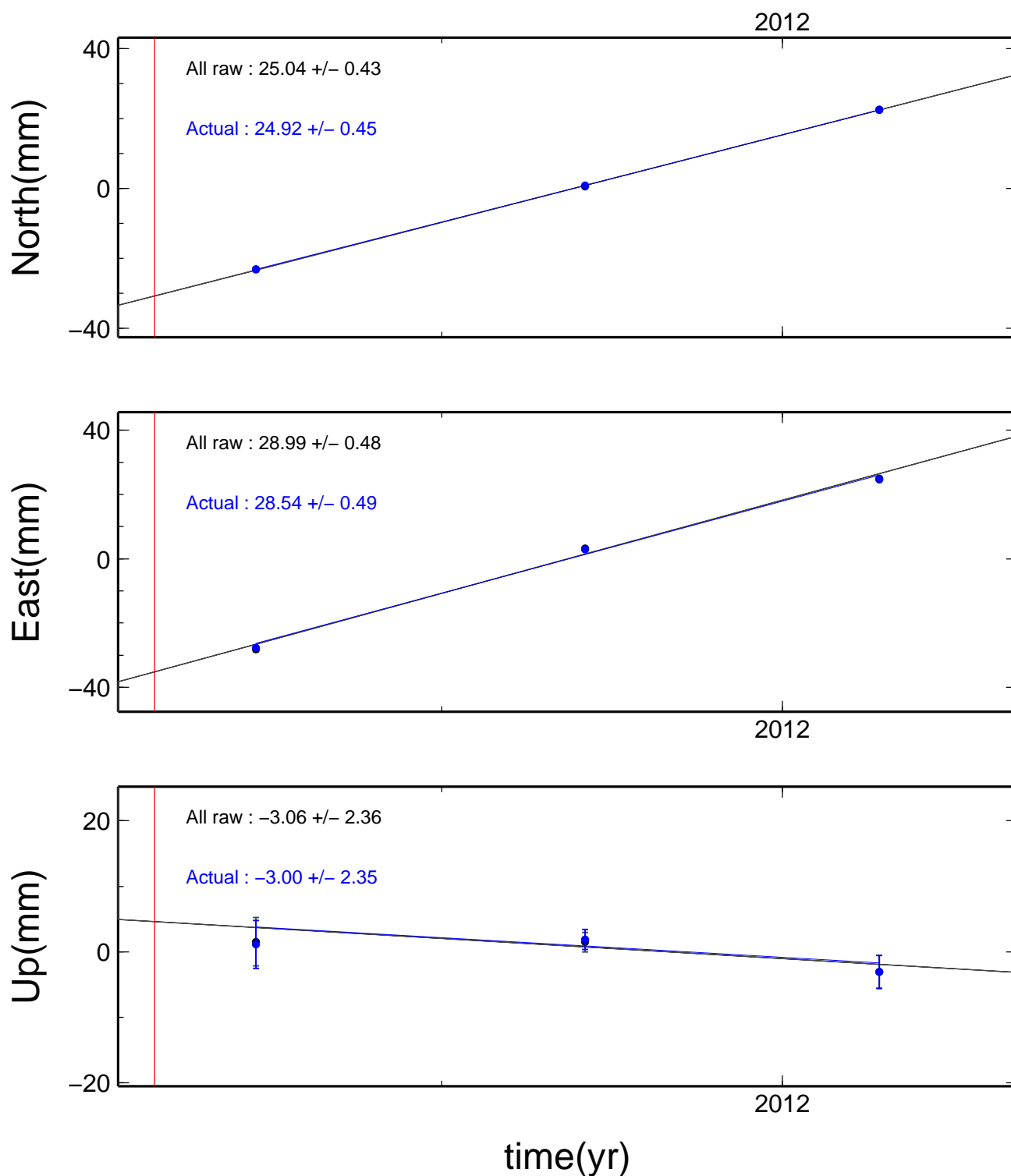


time(yr)

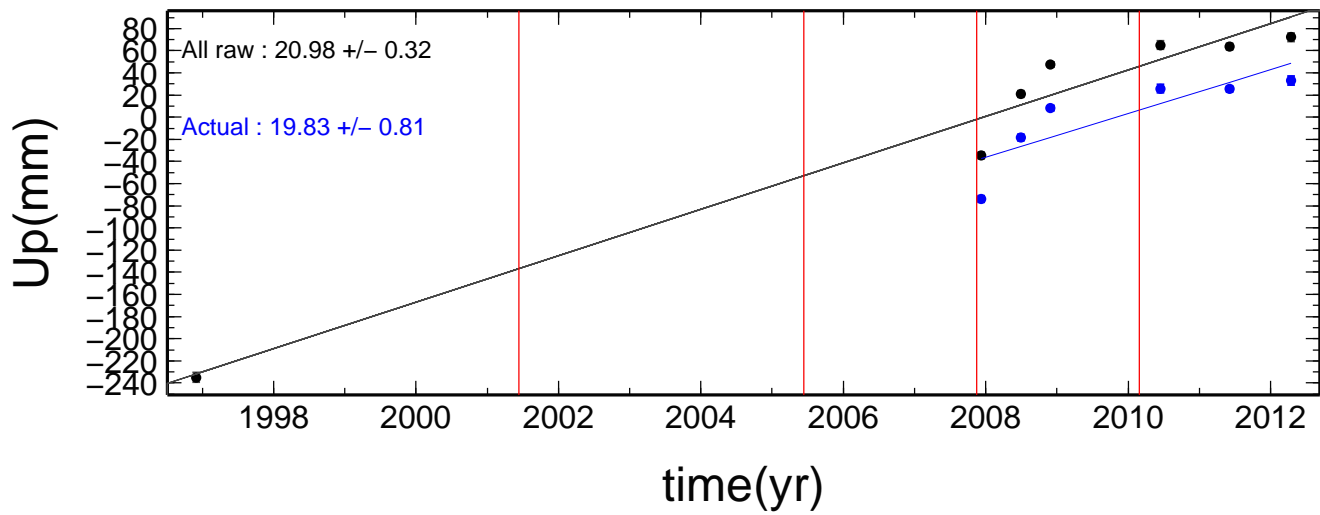
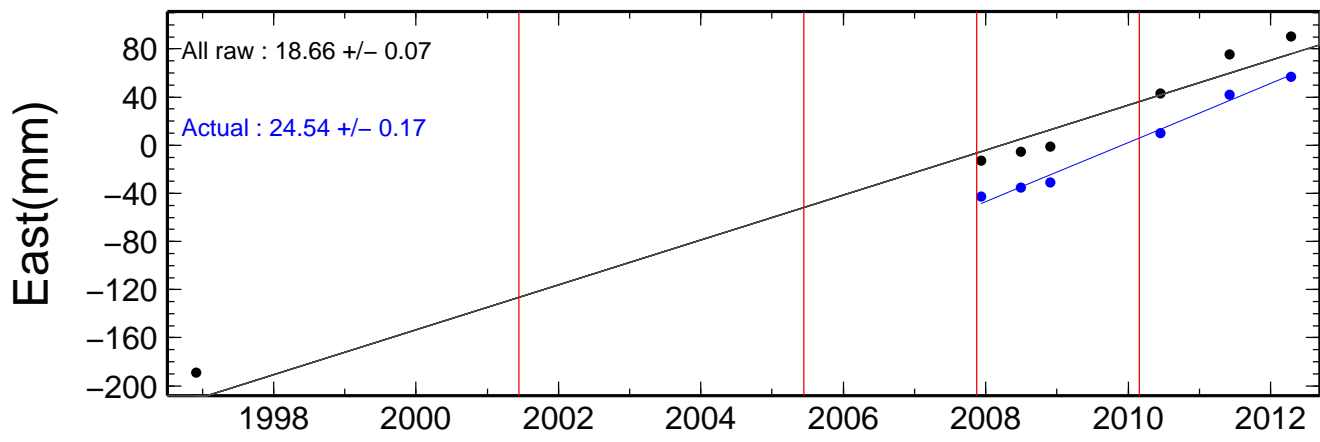
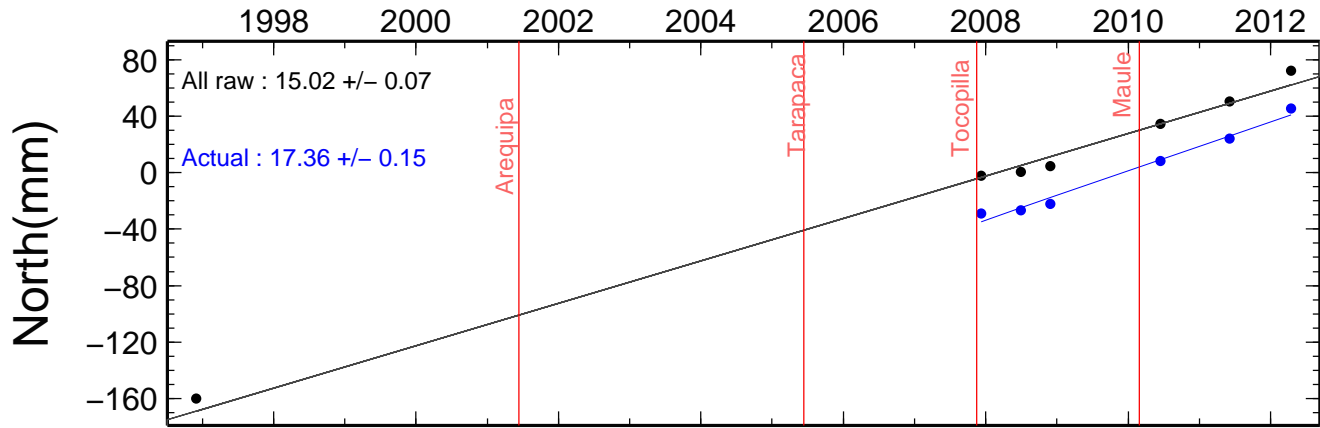
DO60



GRDO

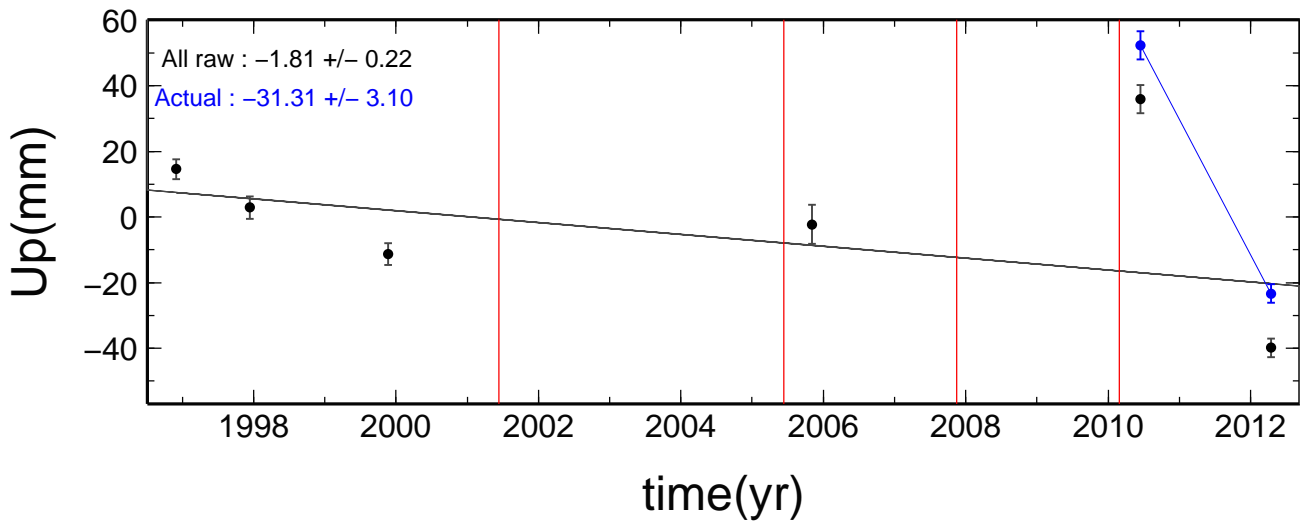
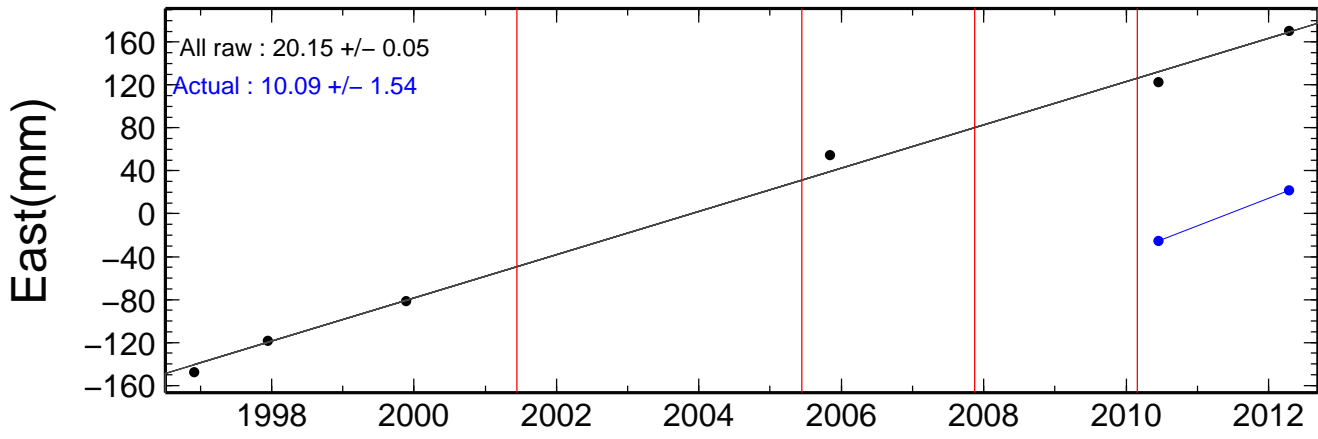
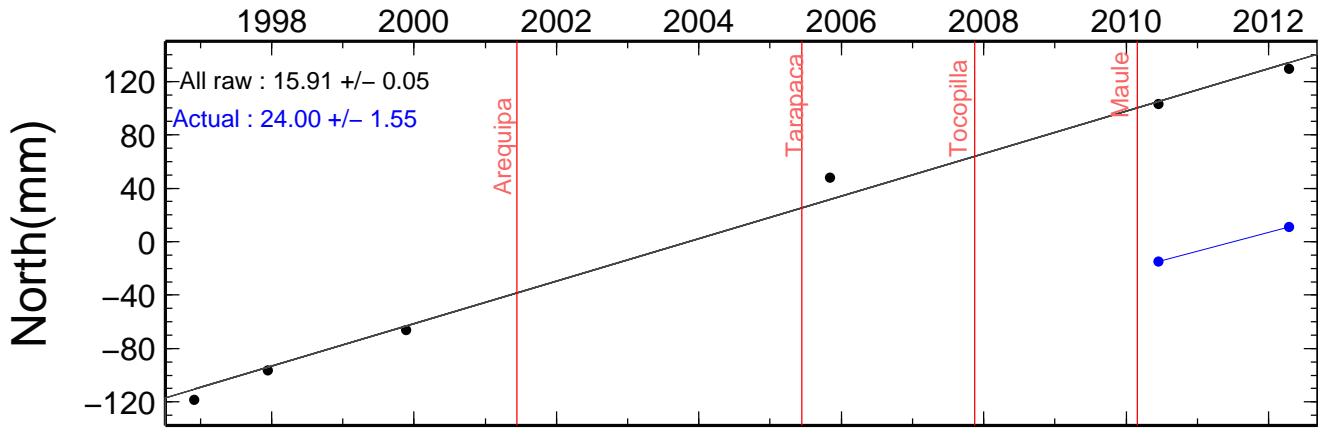


GUA0

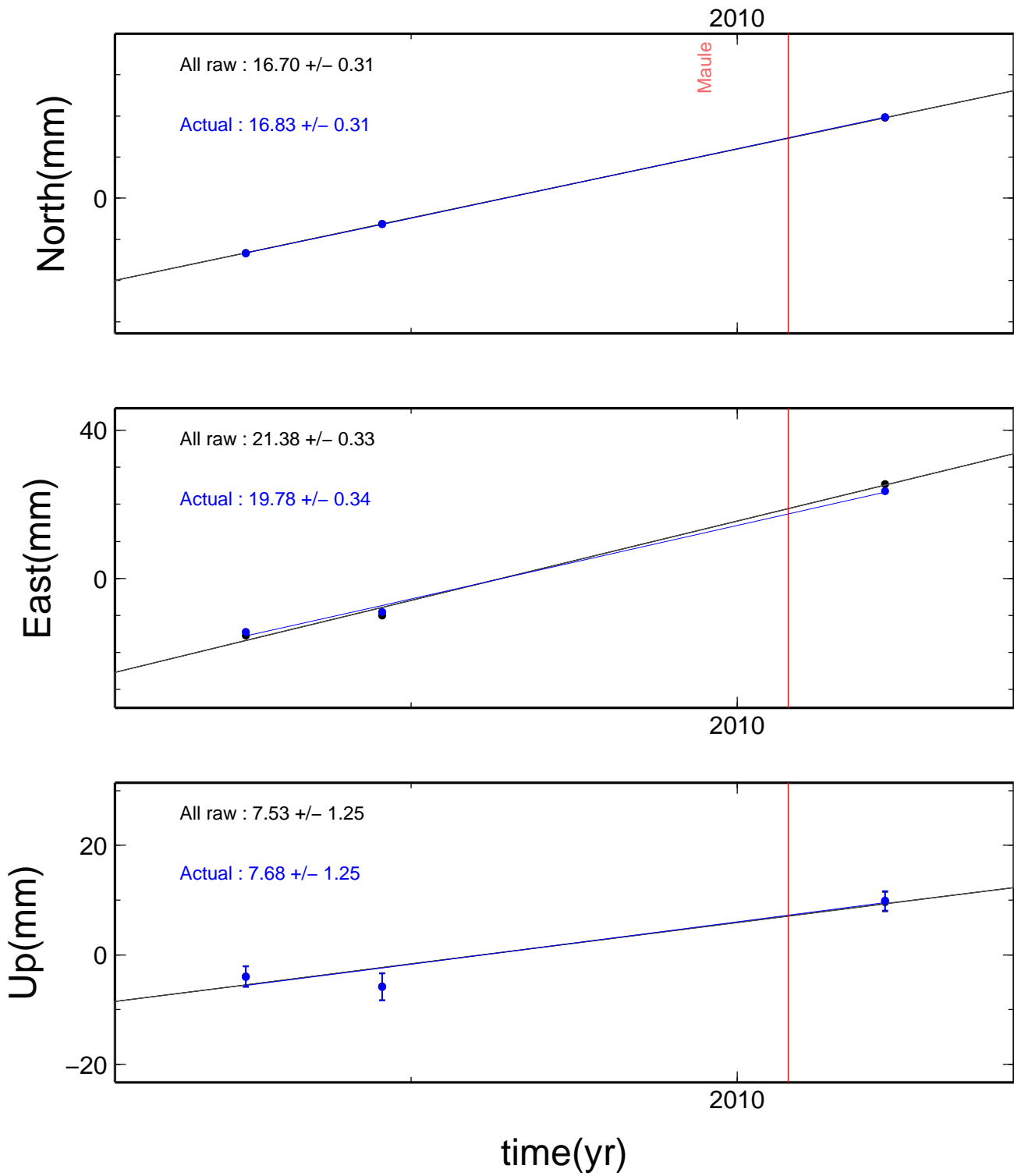


time(yr)

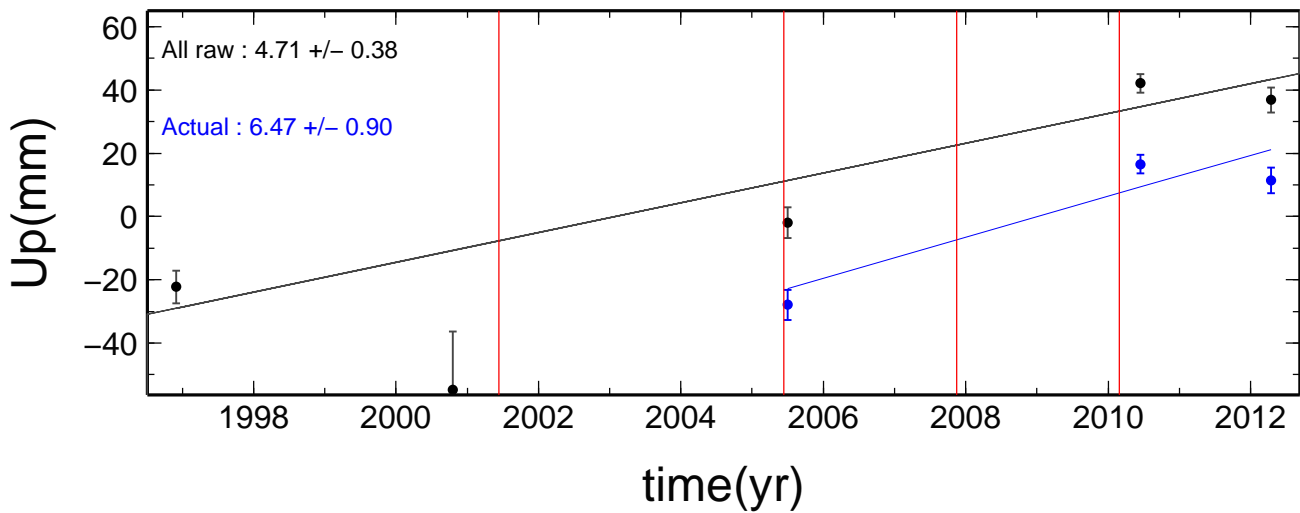
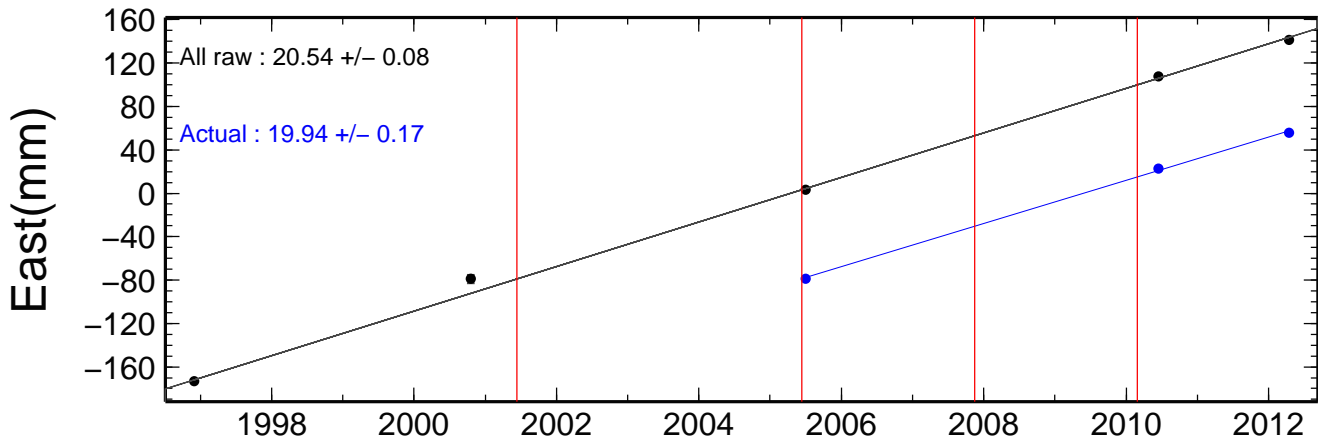
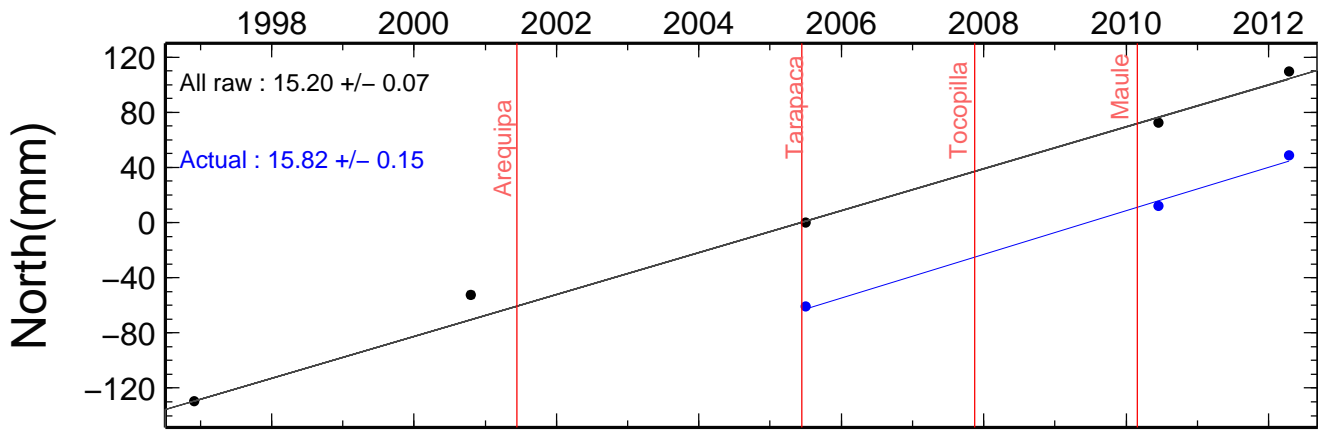
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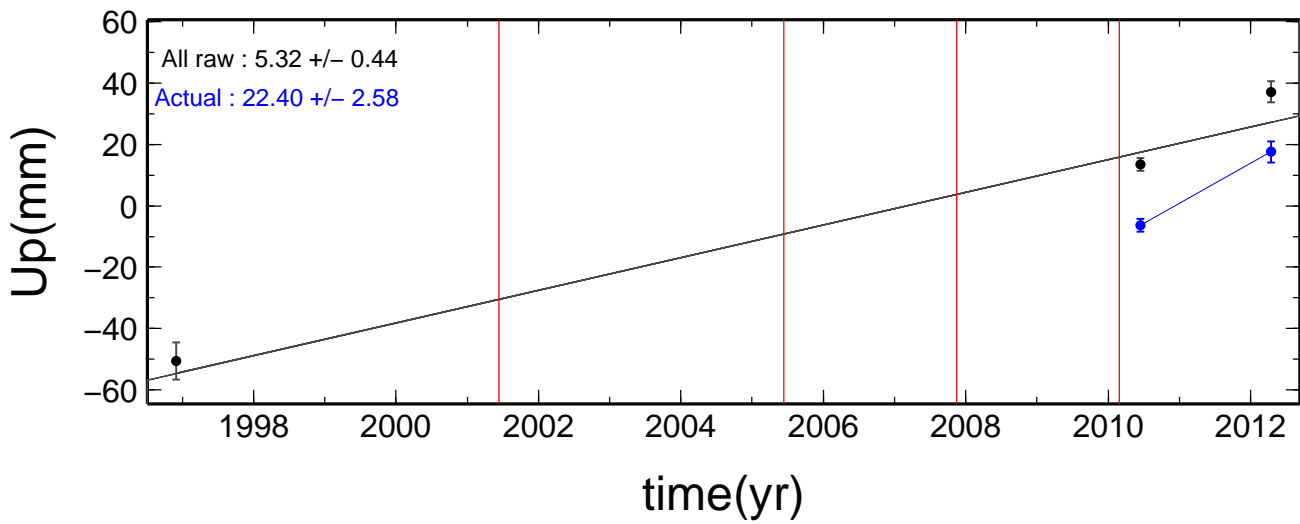
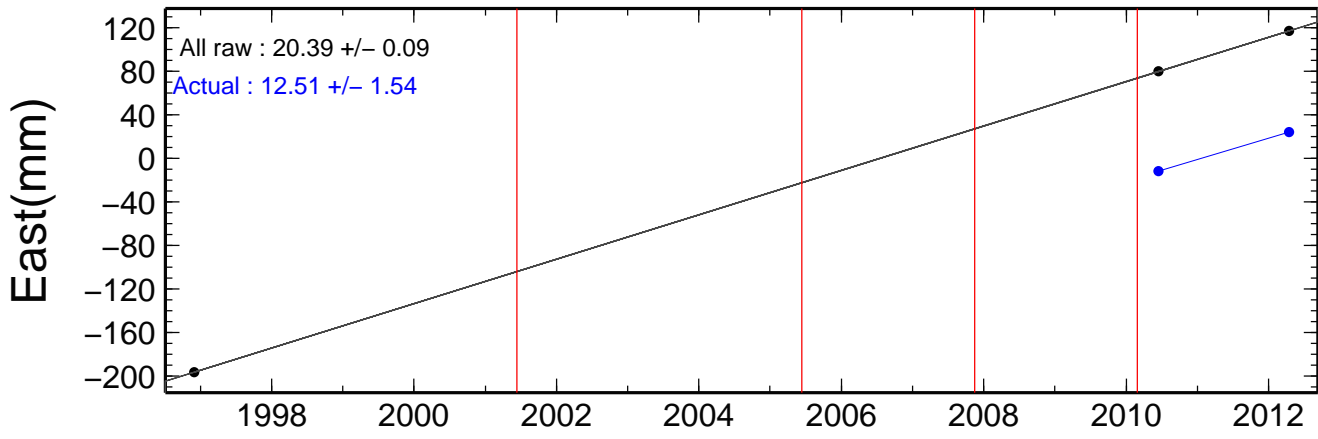
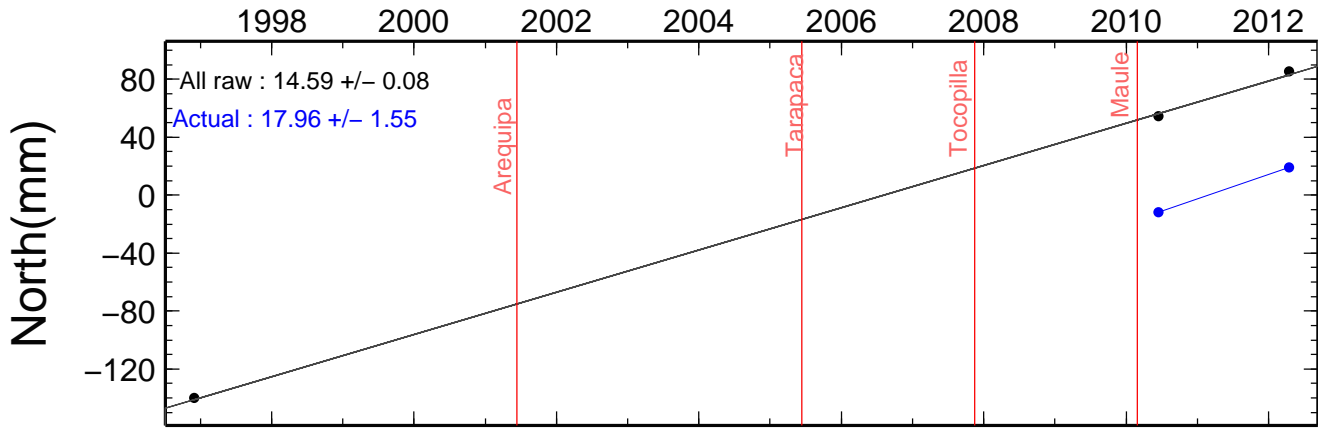
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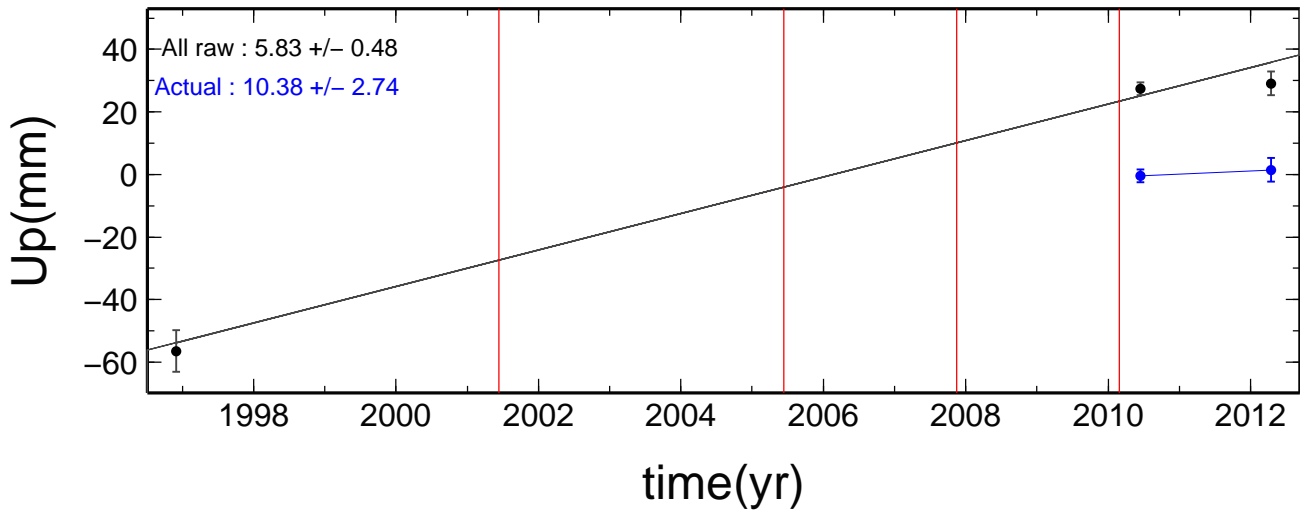
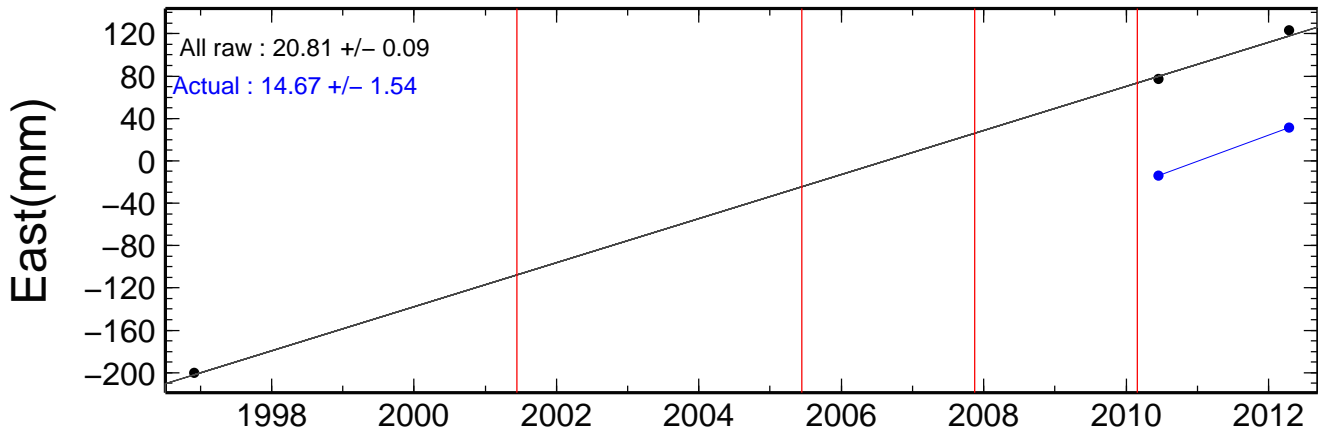
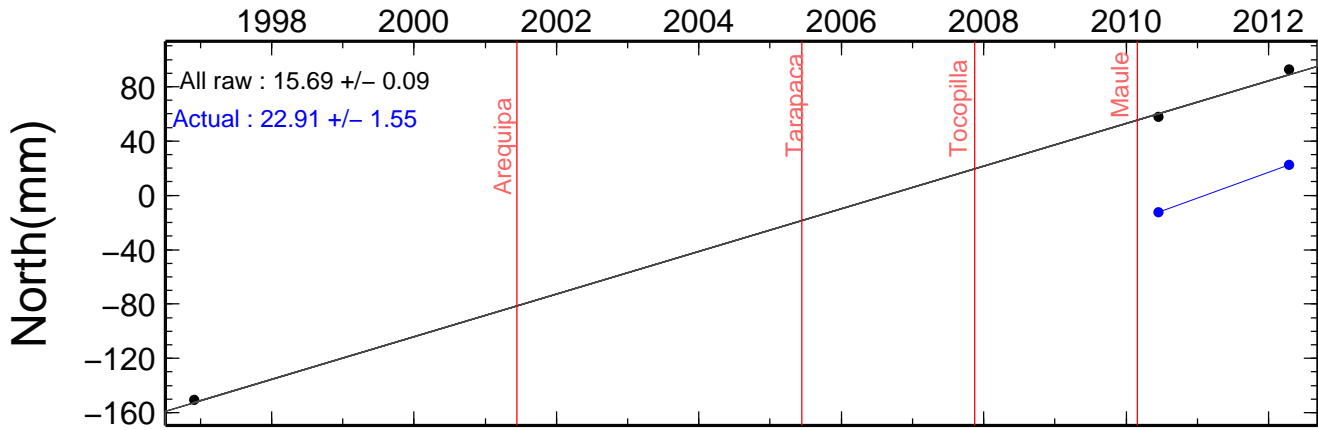
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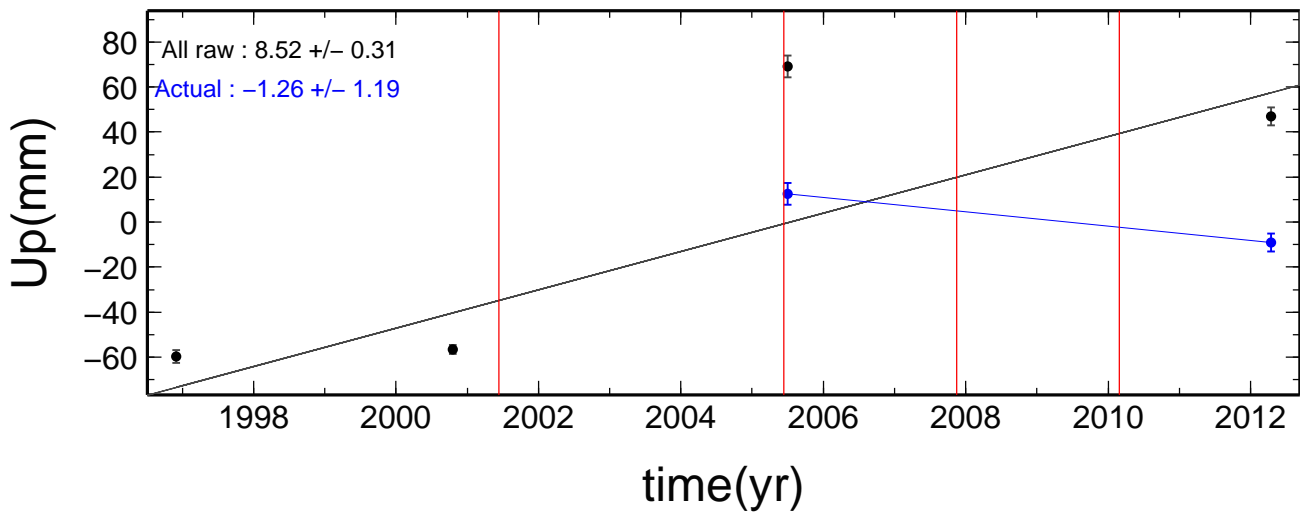
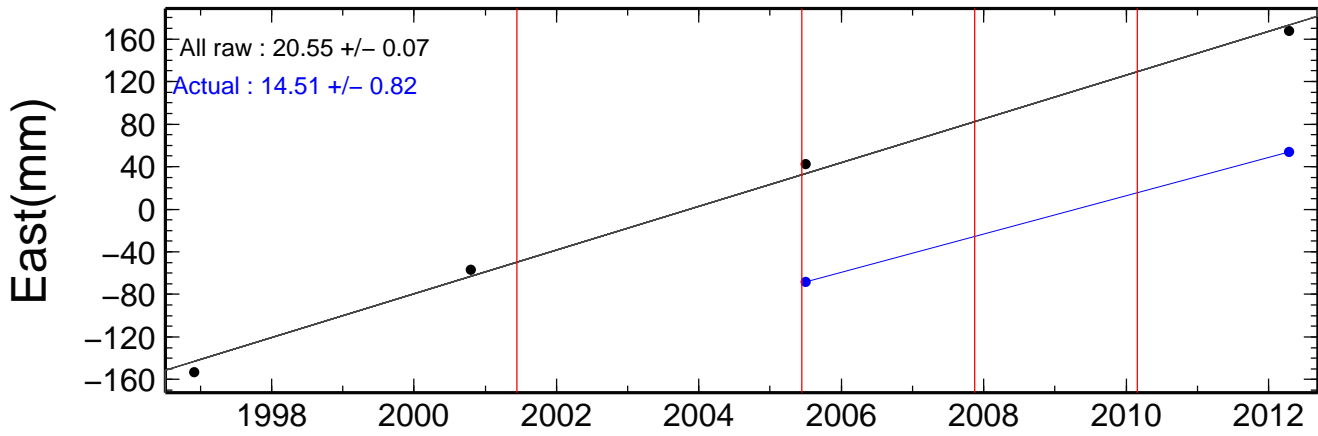
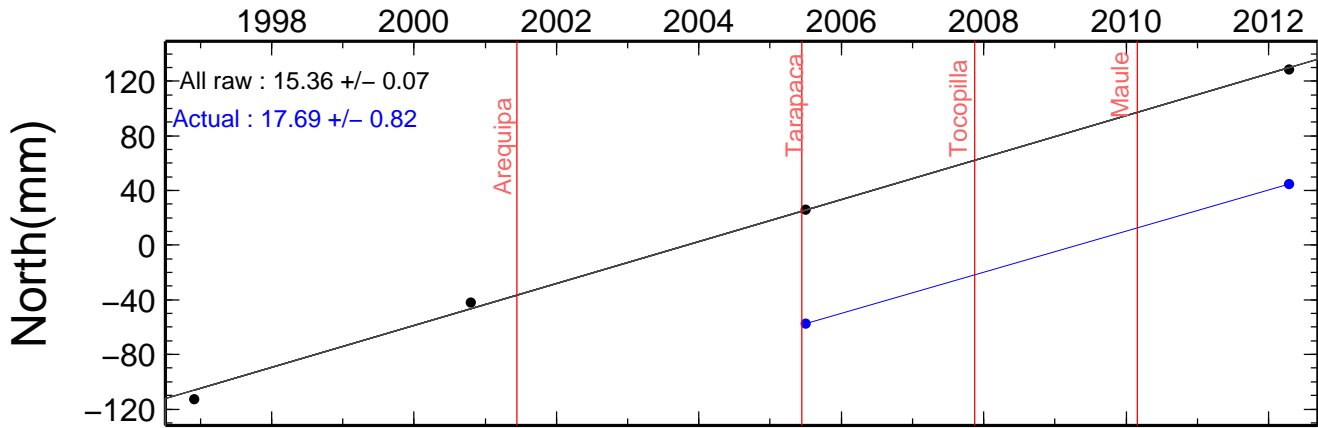
IQB0



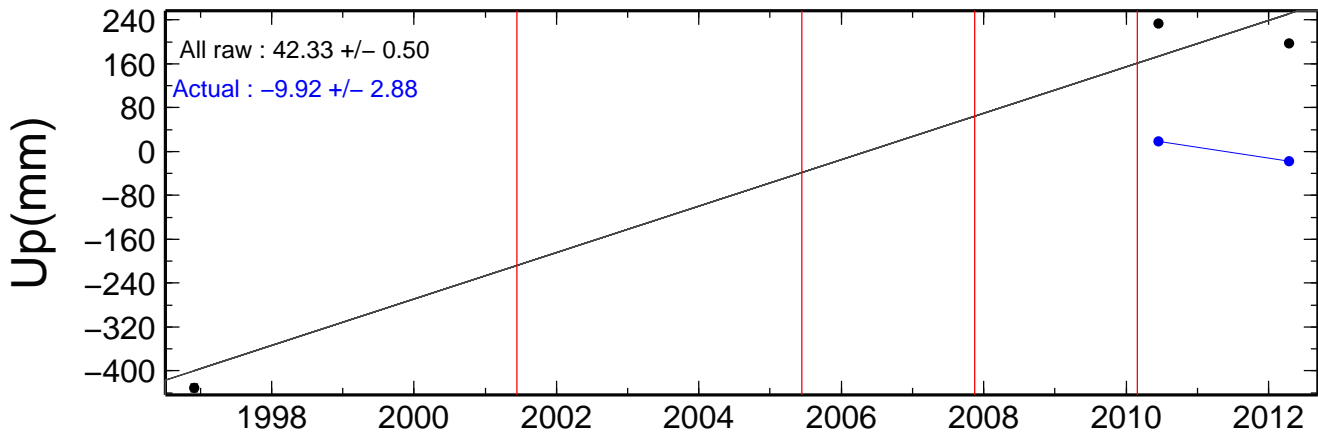
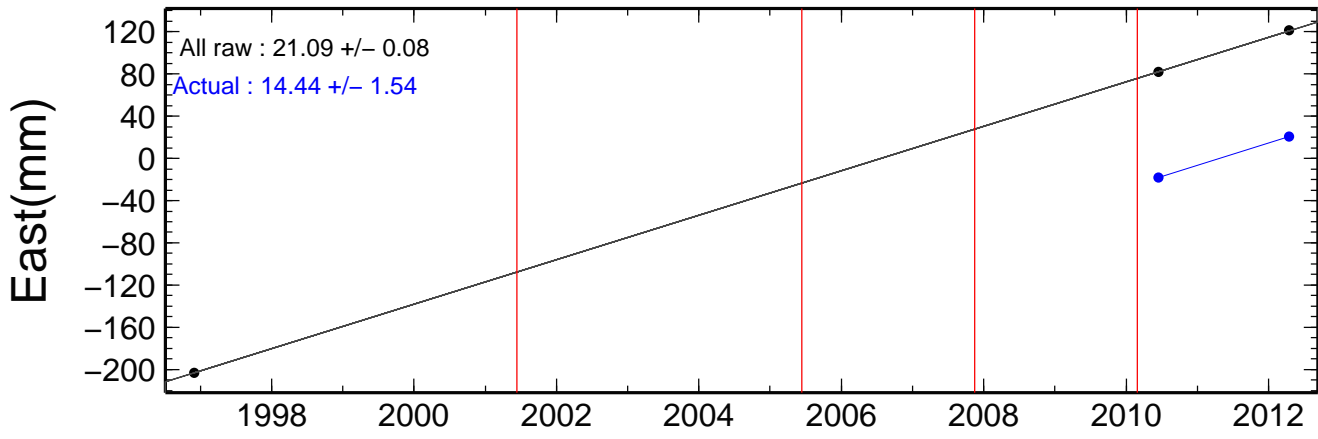
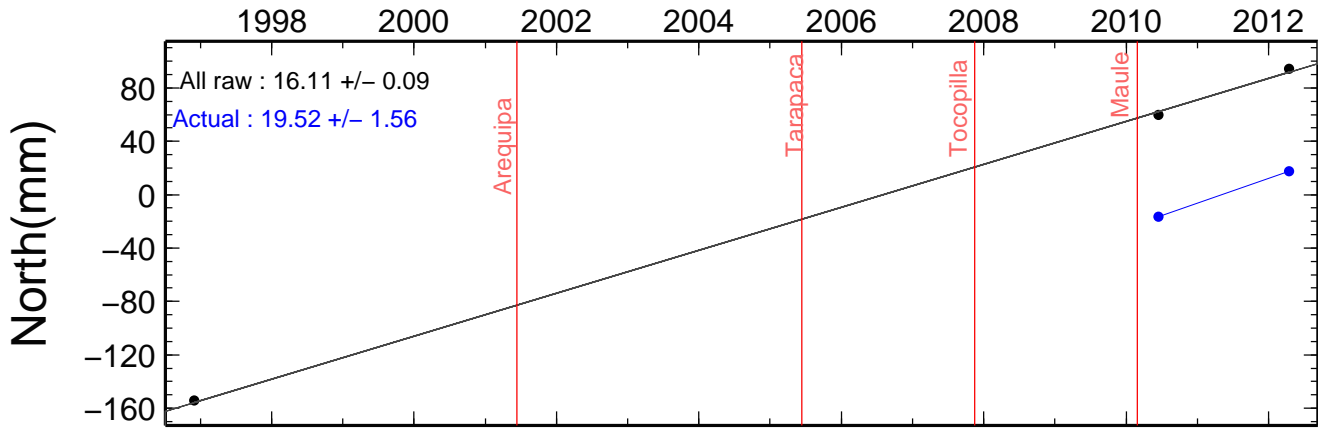
IQC0



IQD0

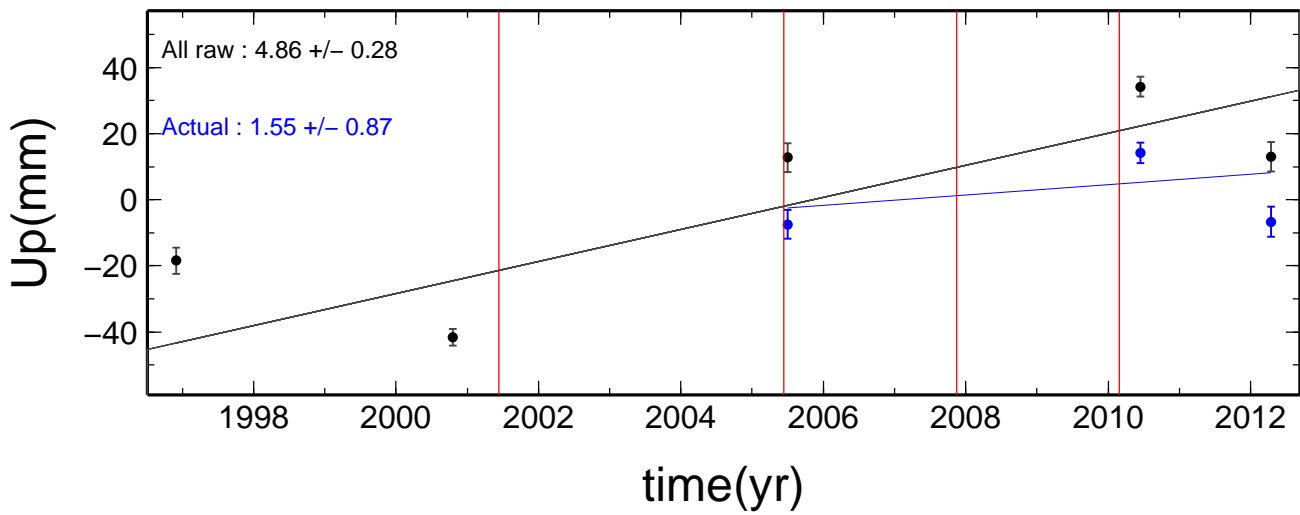
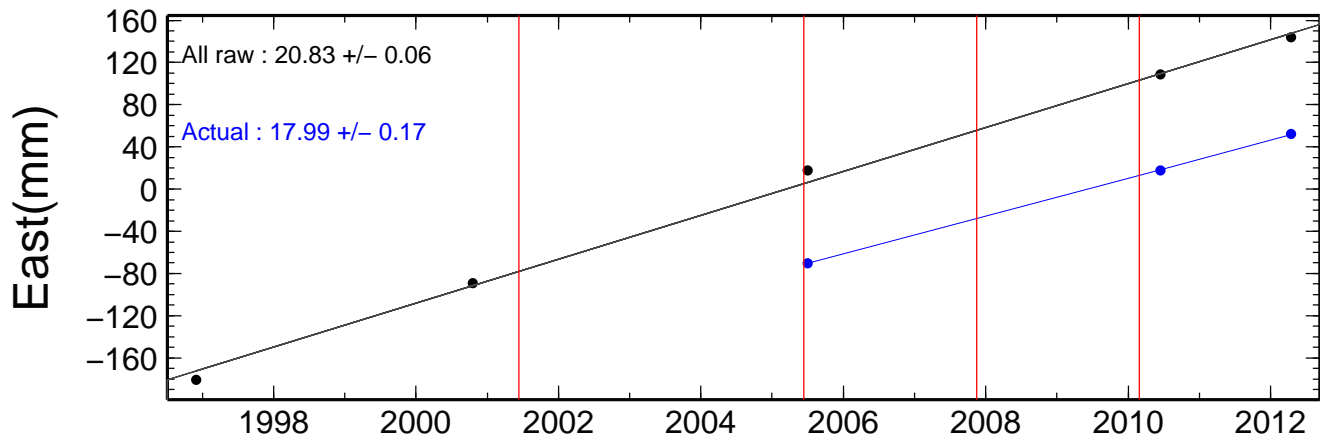
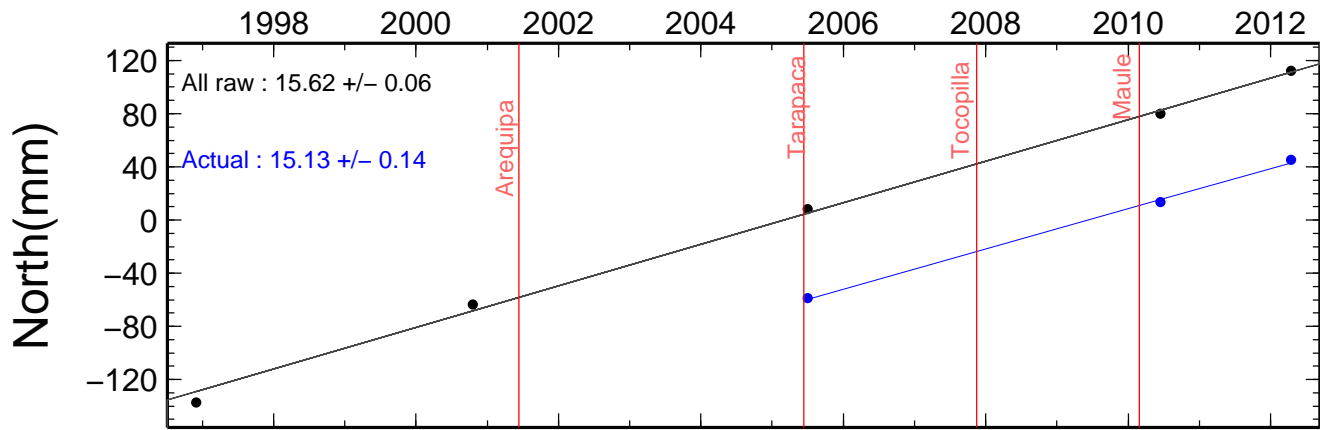


IQE0

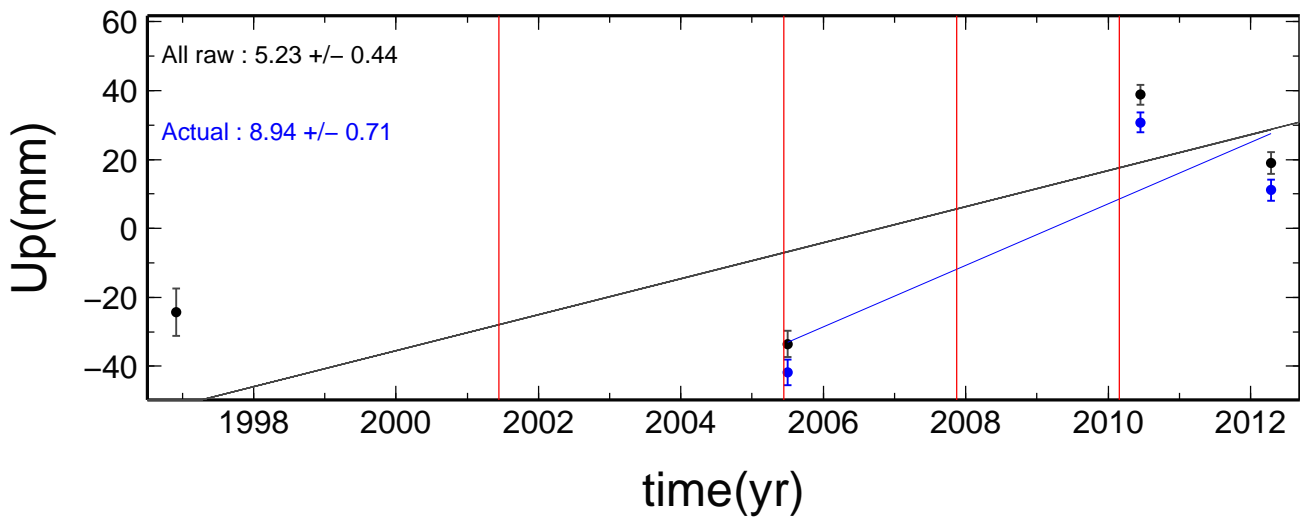
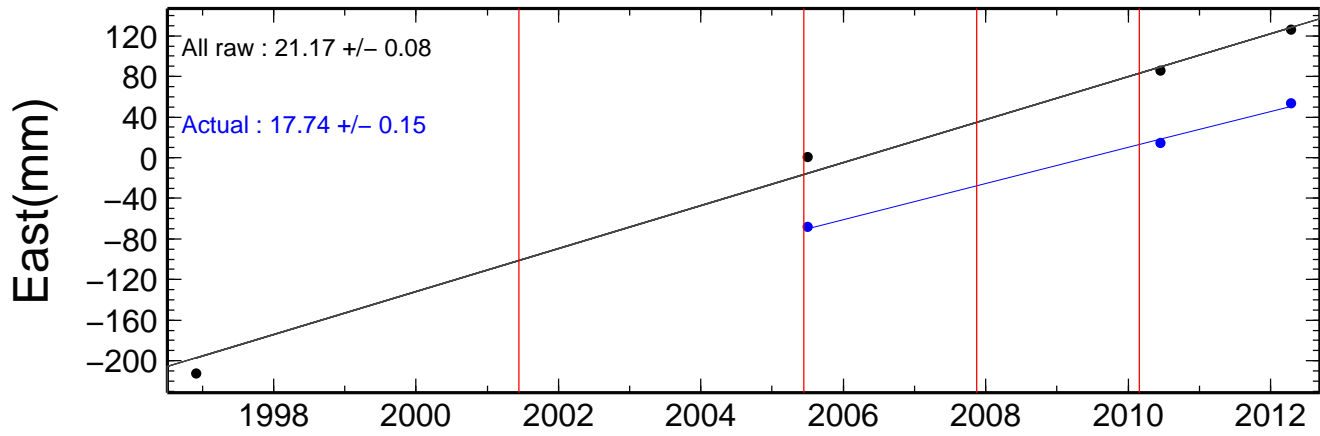
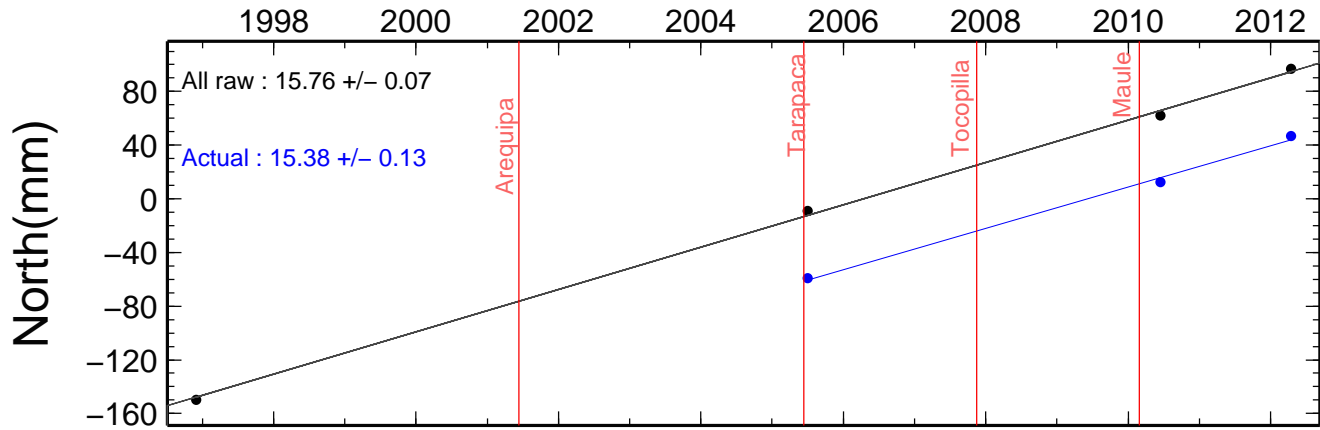


IQE0

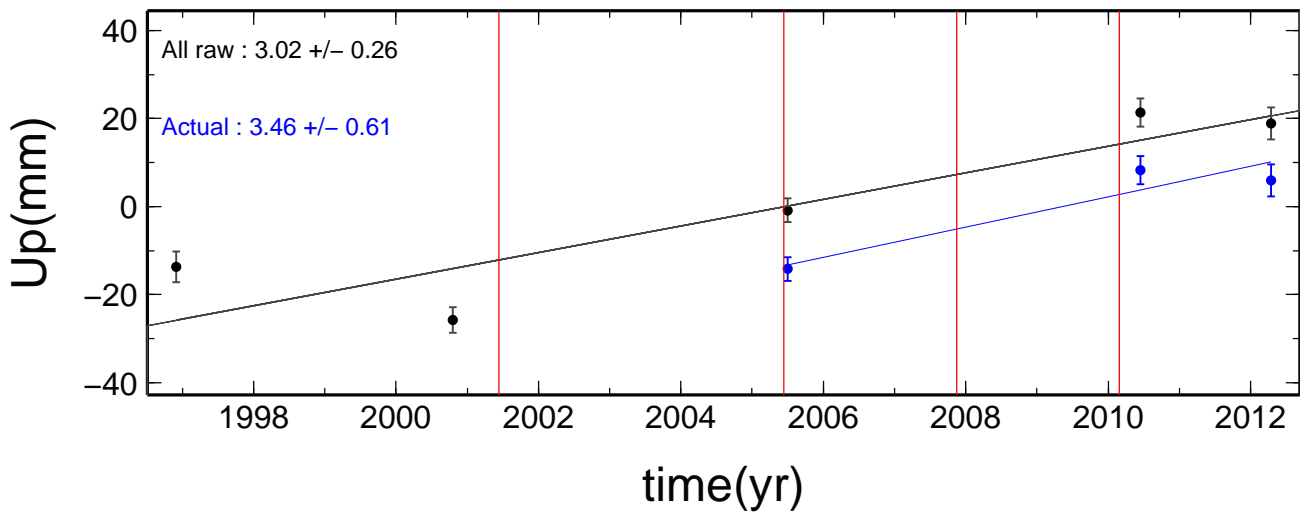
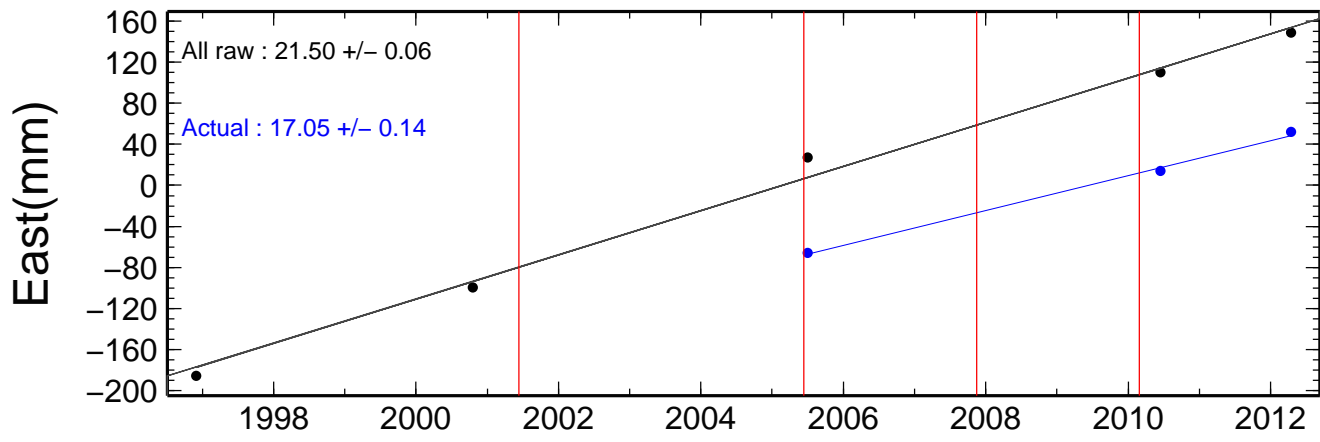
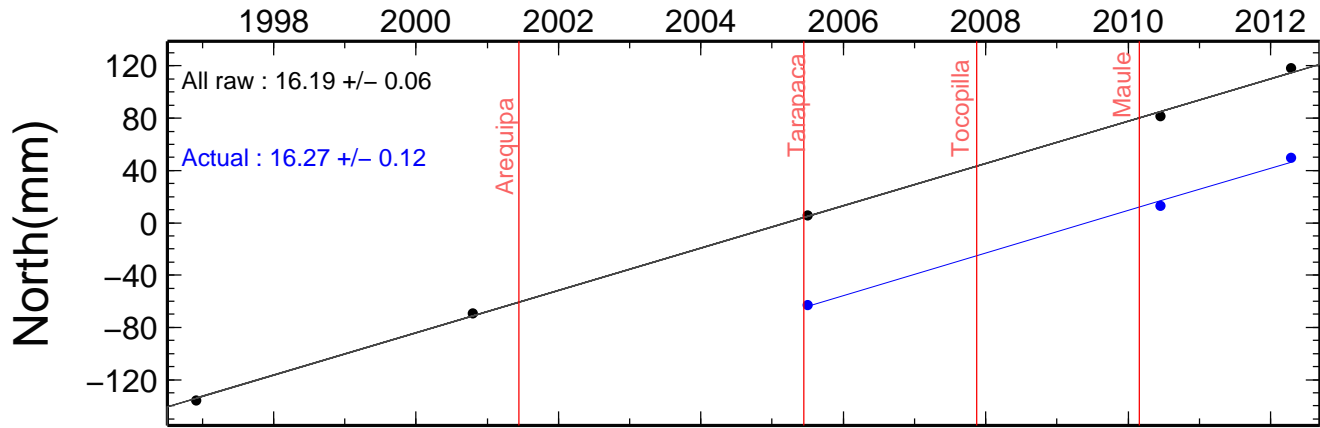
IQF0



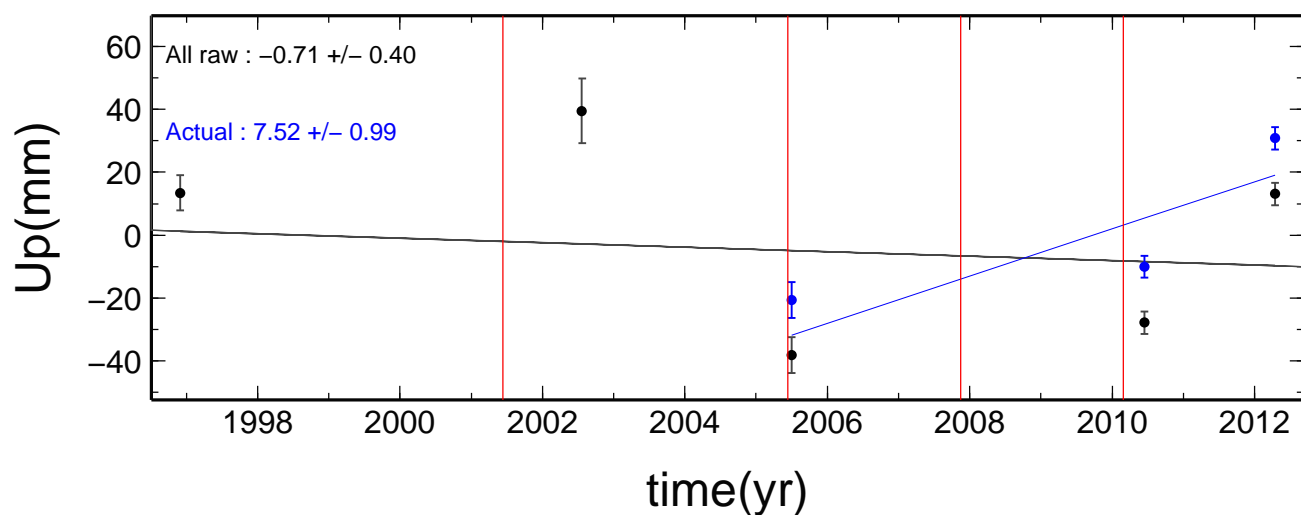
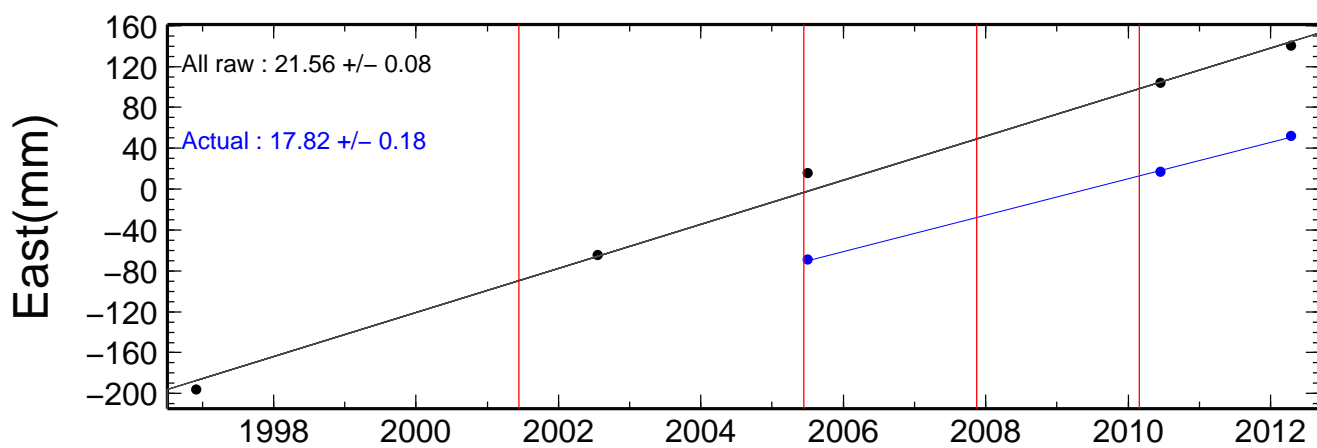
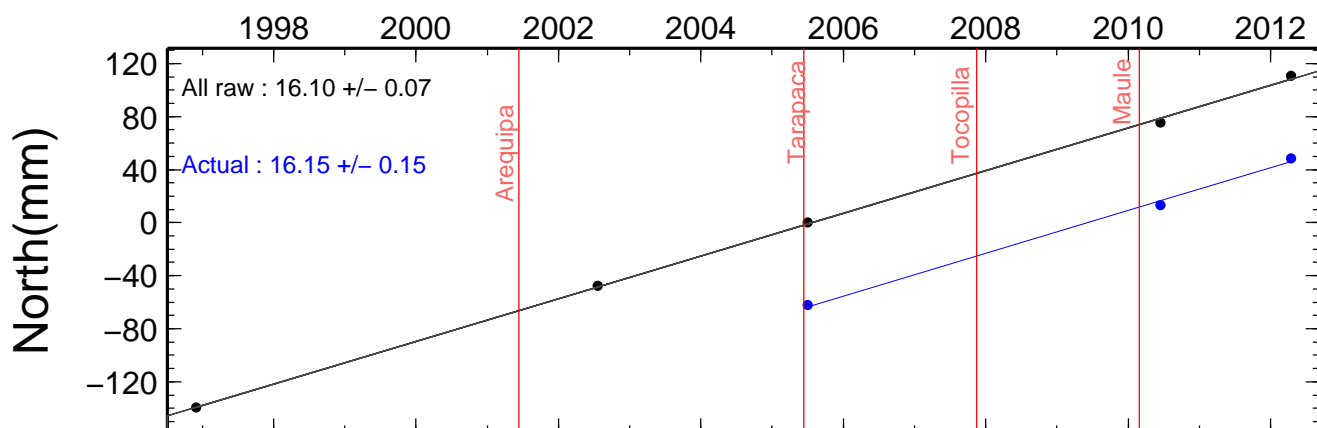
IQGO



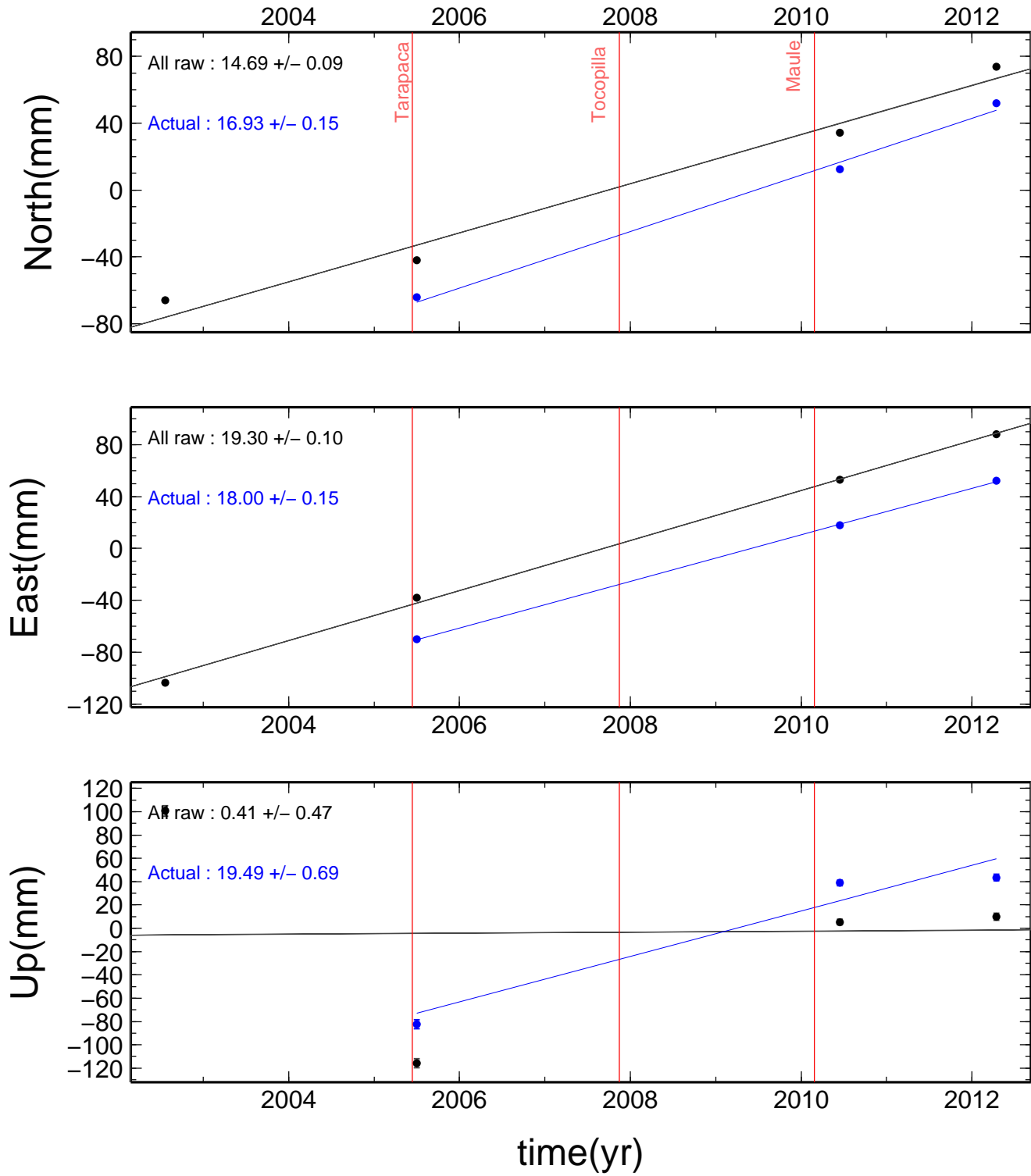
IQH0



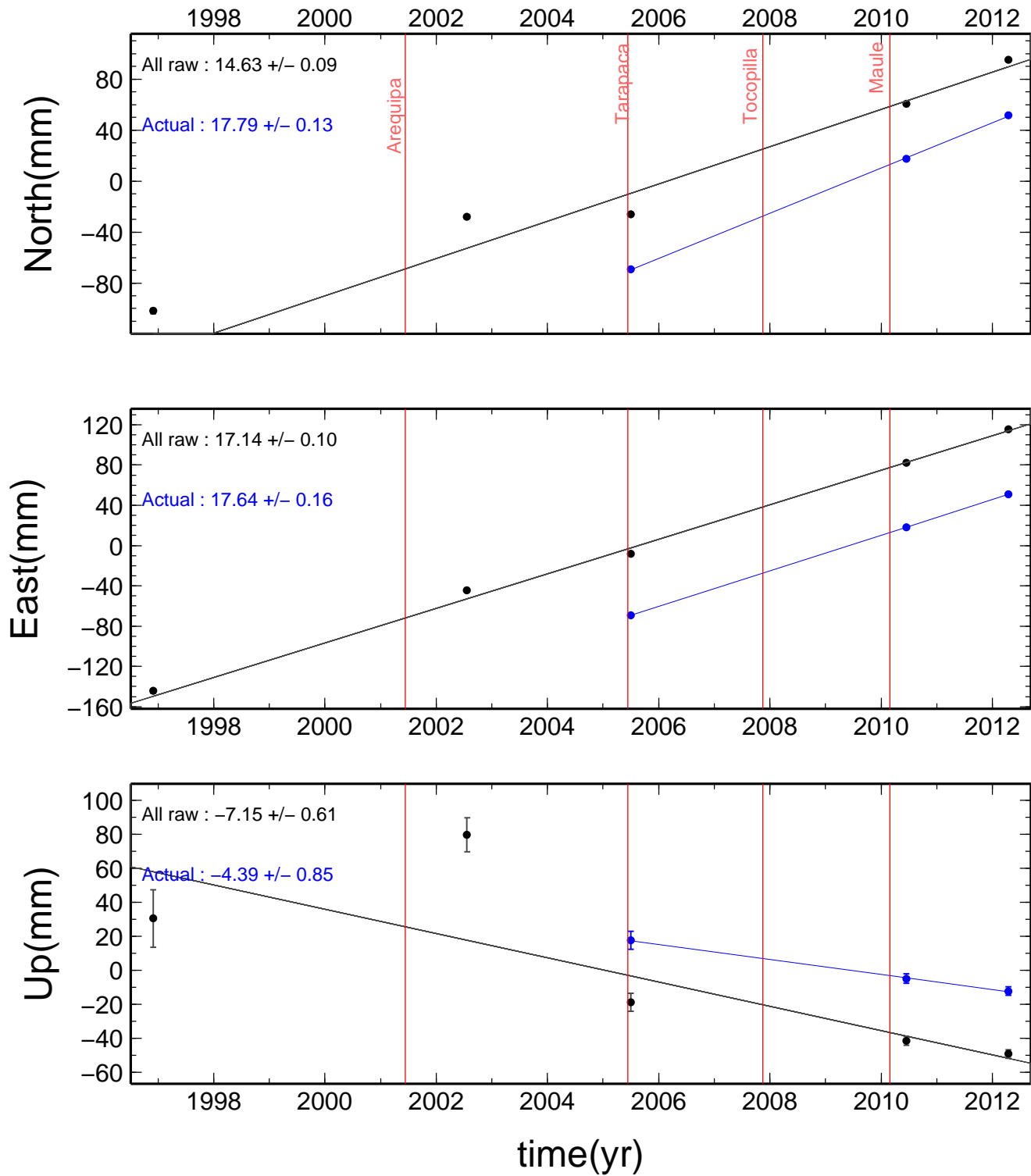
IQ10



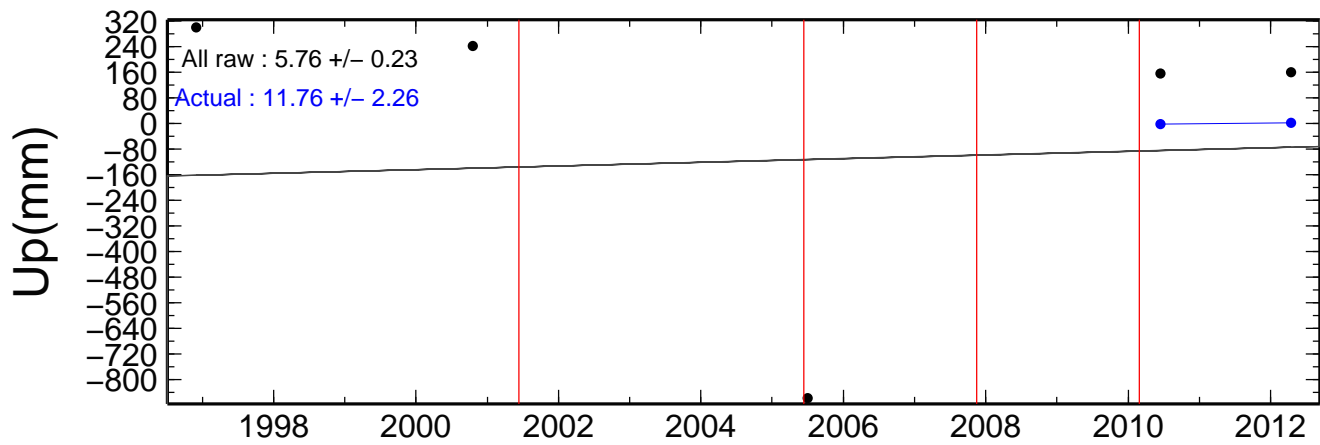
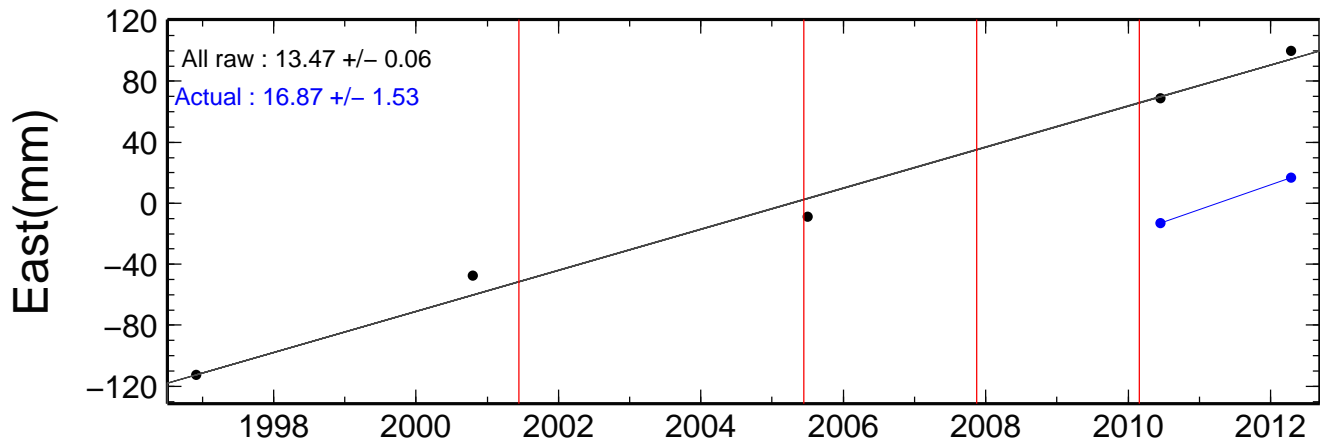
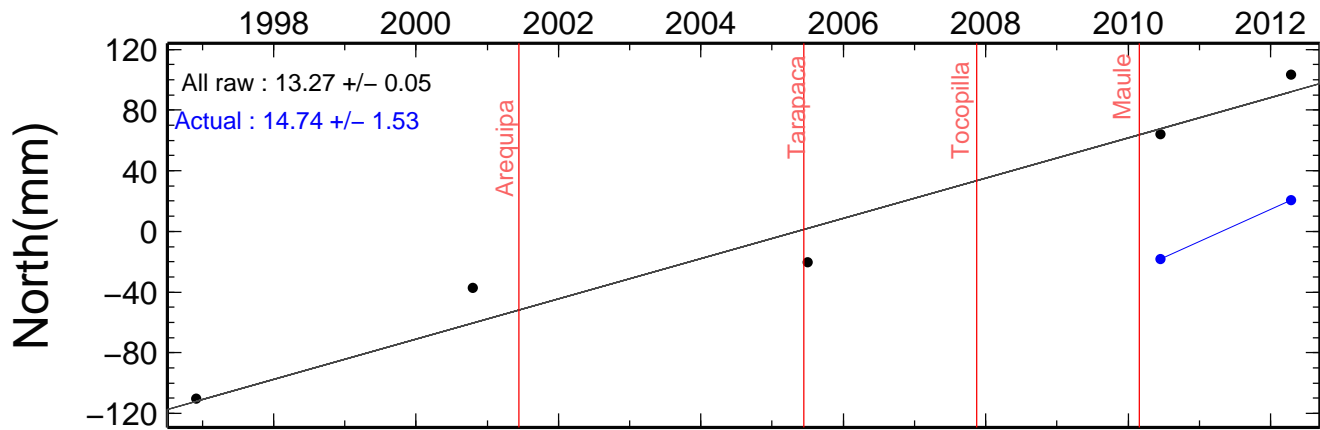
IQK0



IQM0

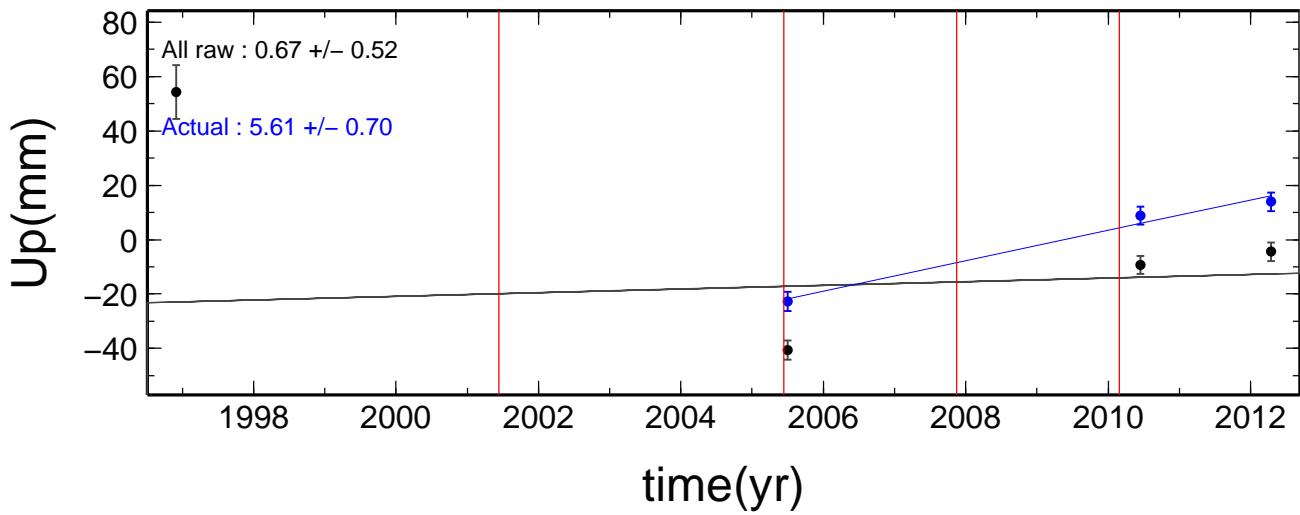
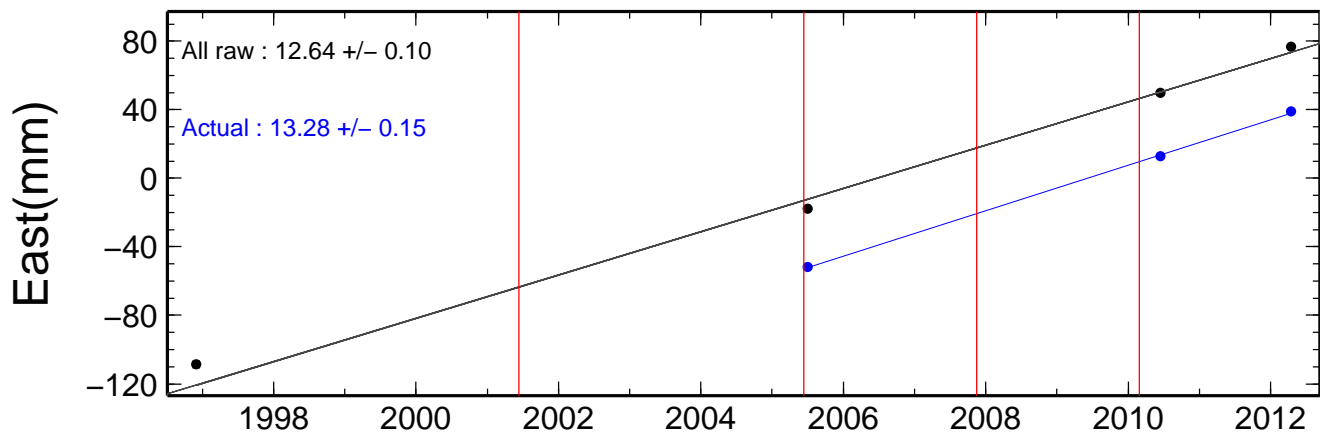
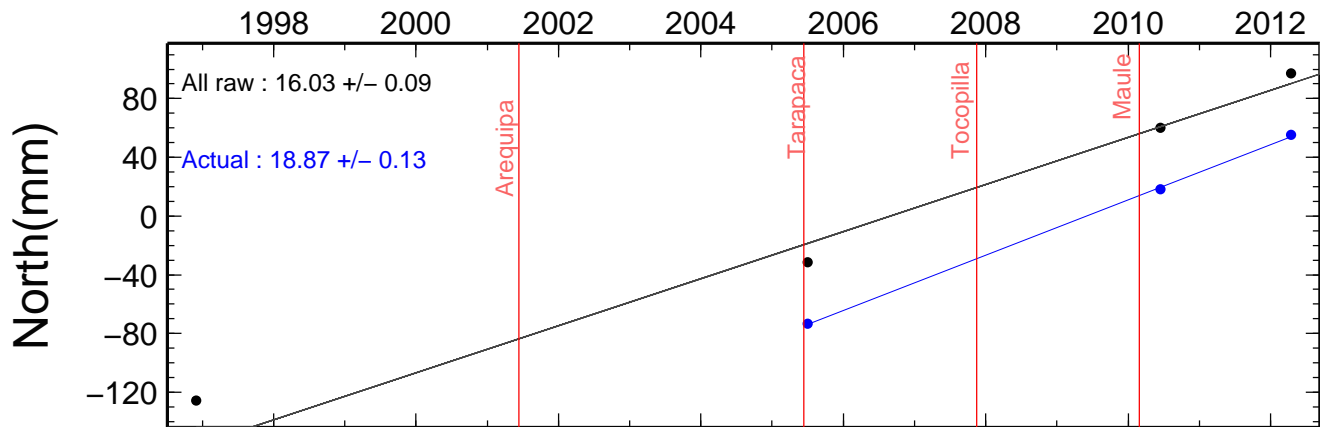


IQN0

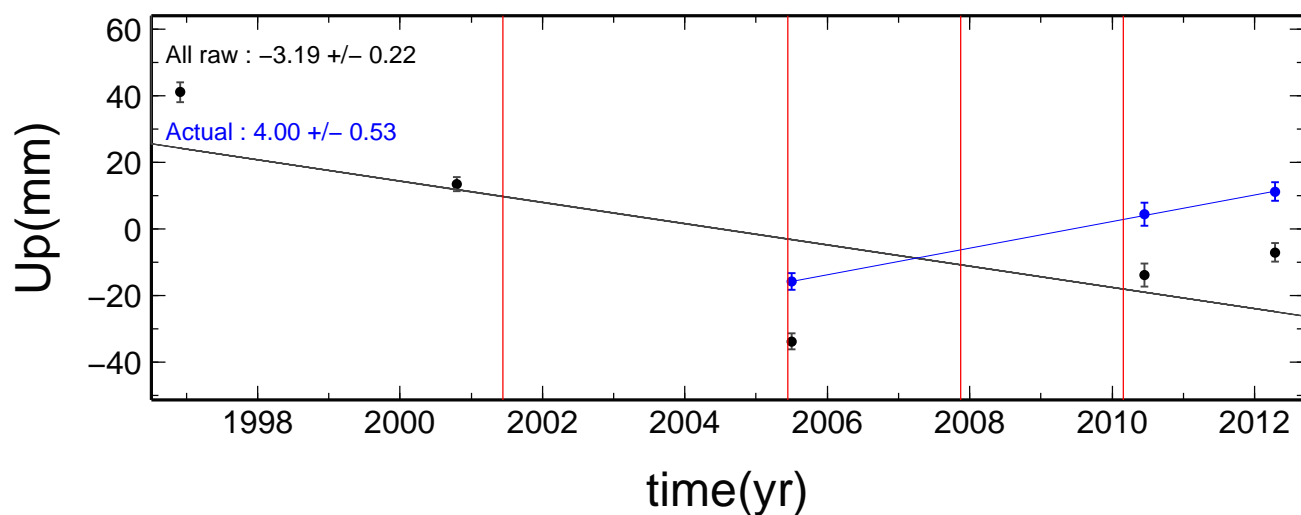
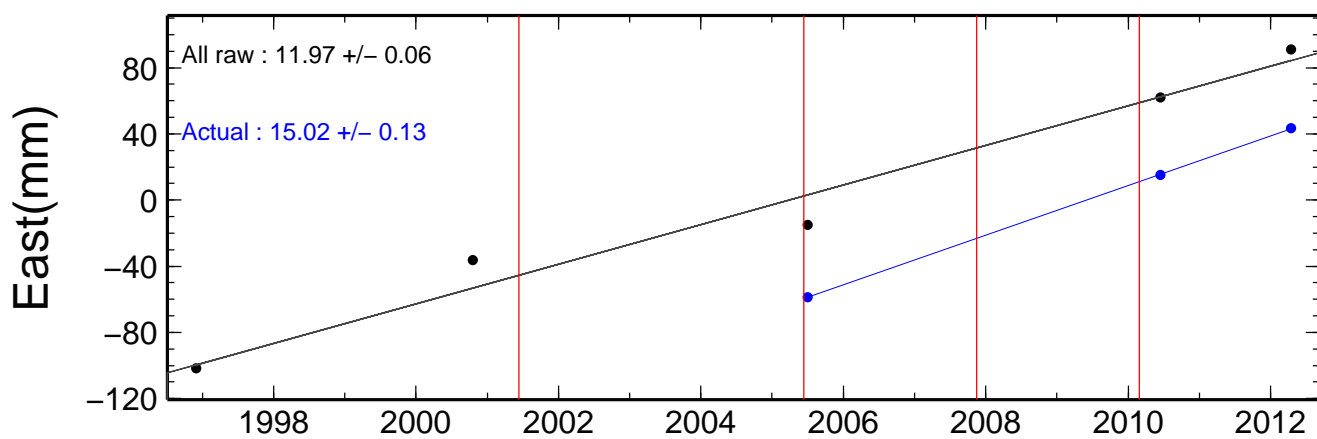
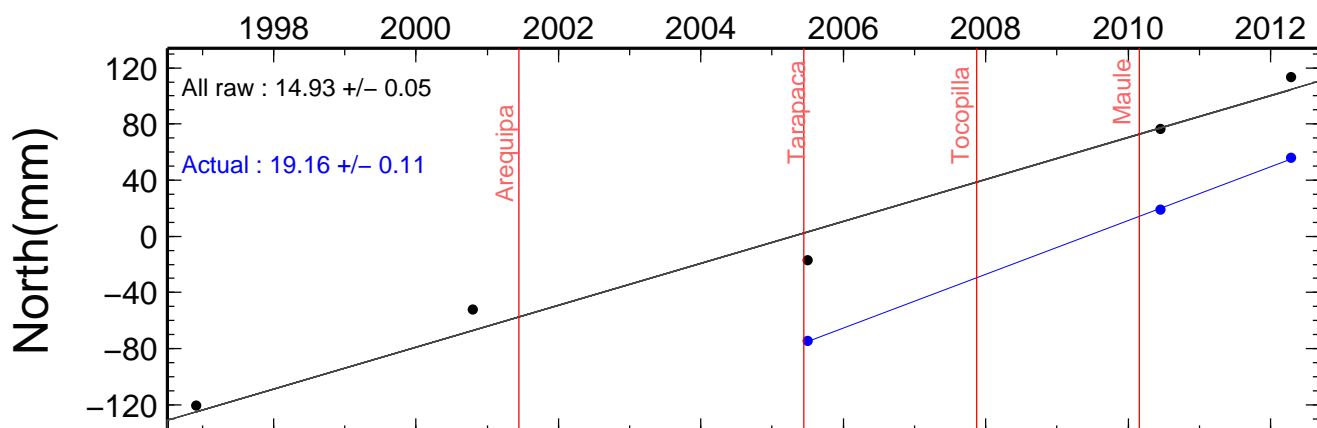


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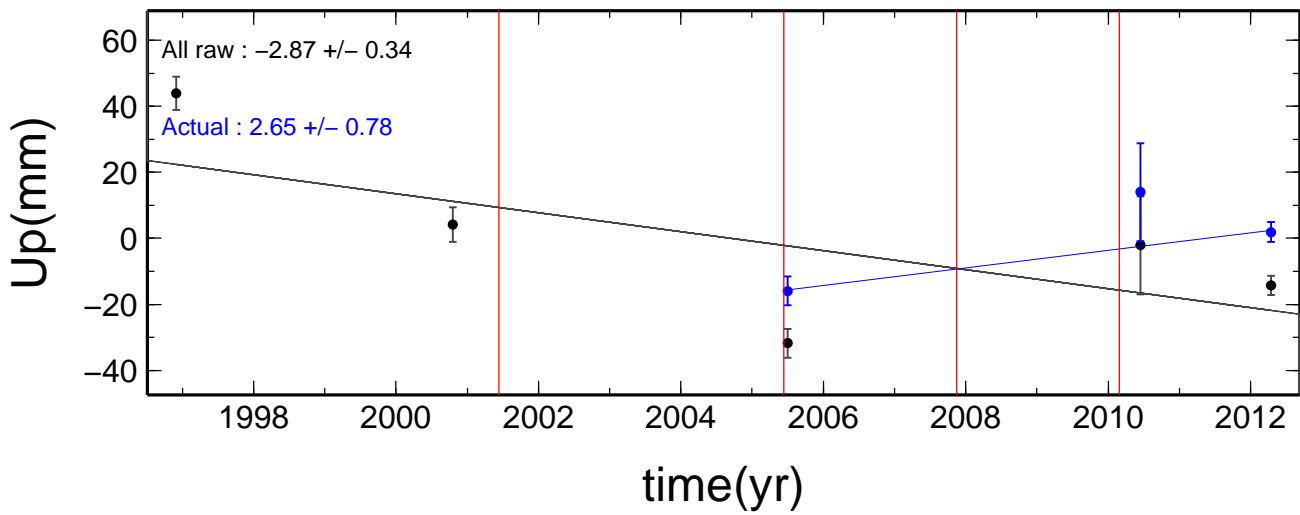
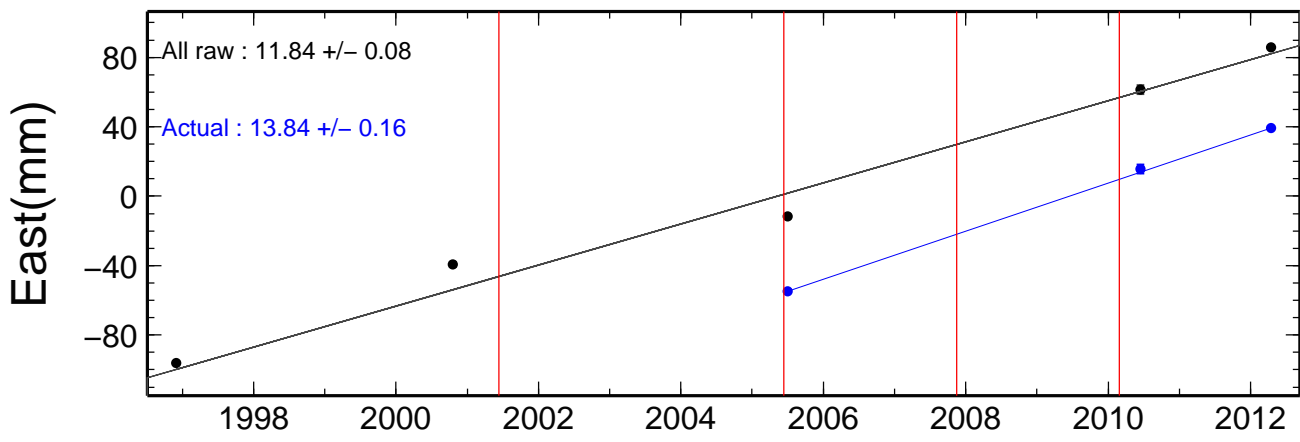
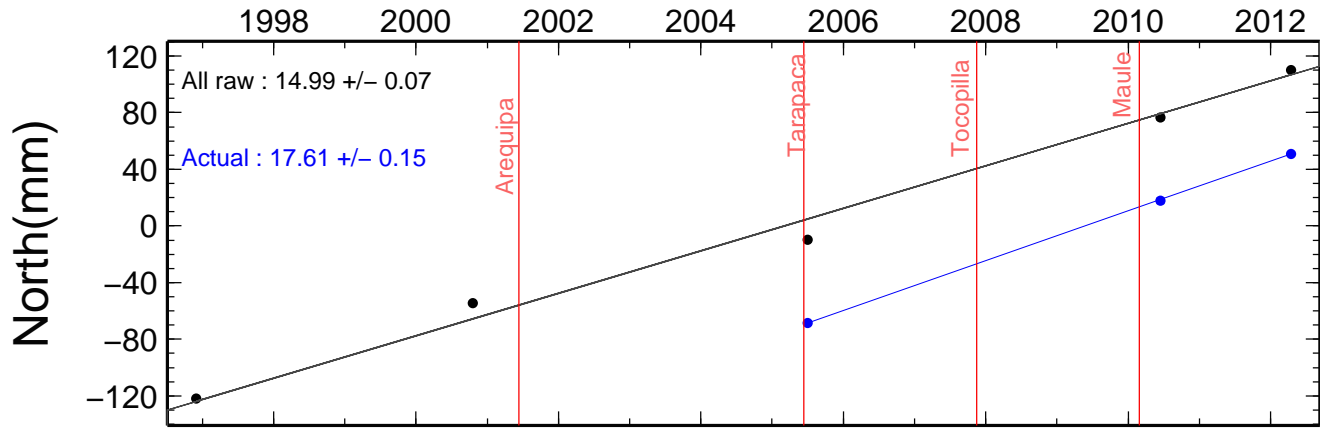
IQOO



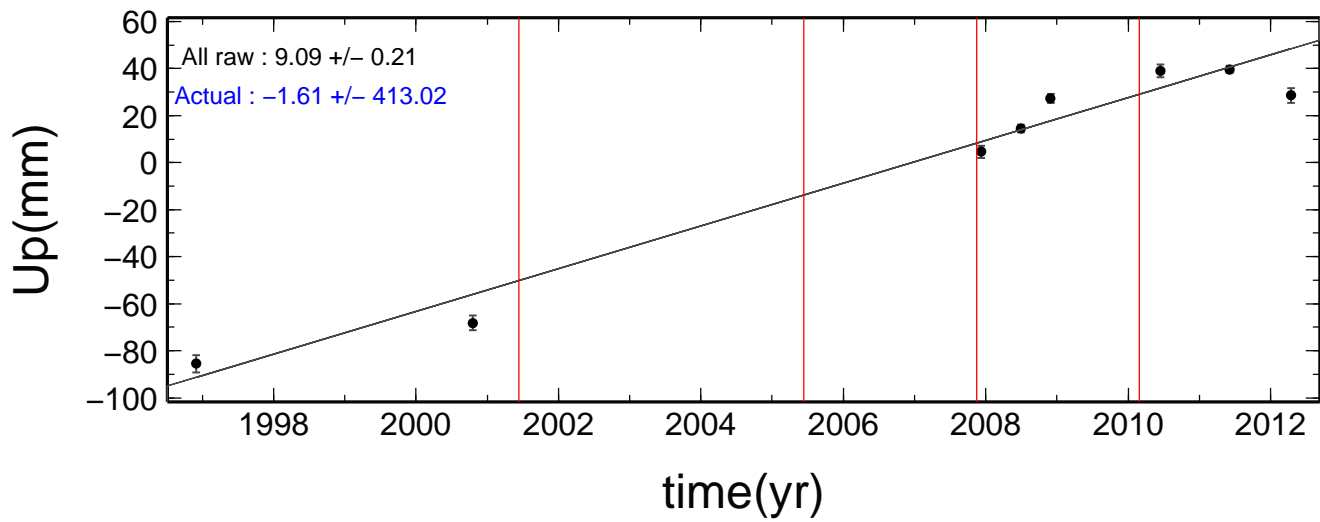
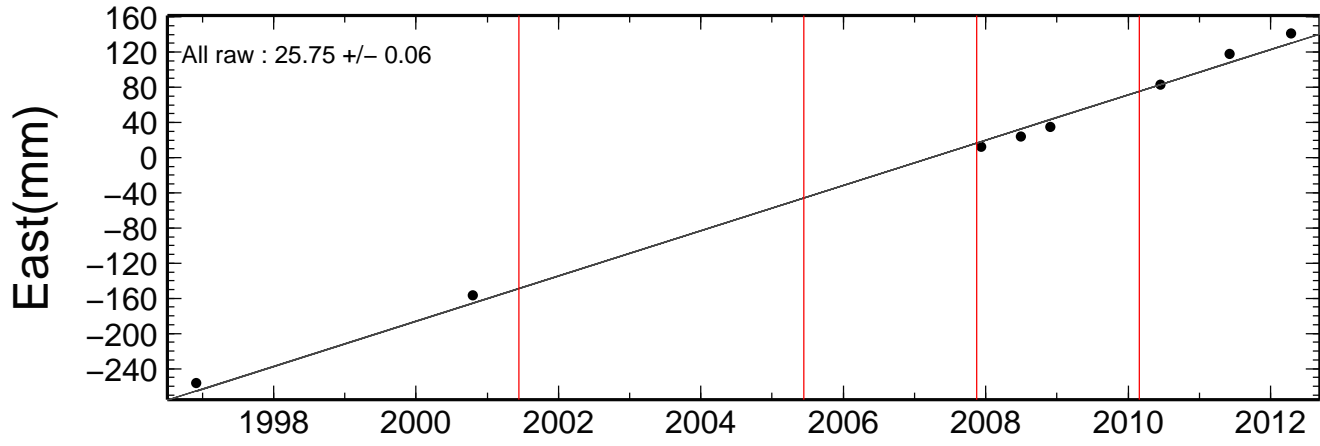
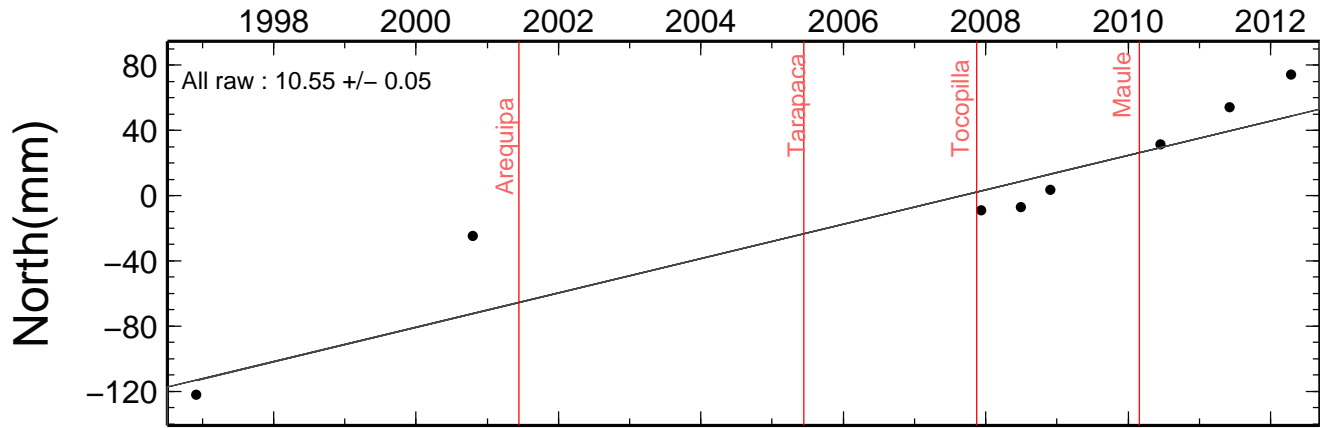
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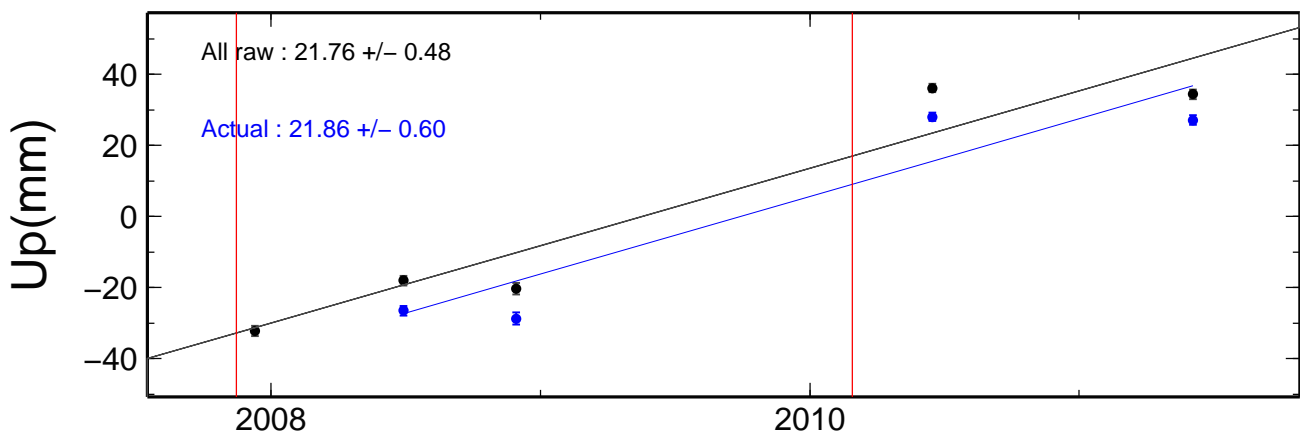
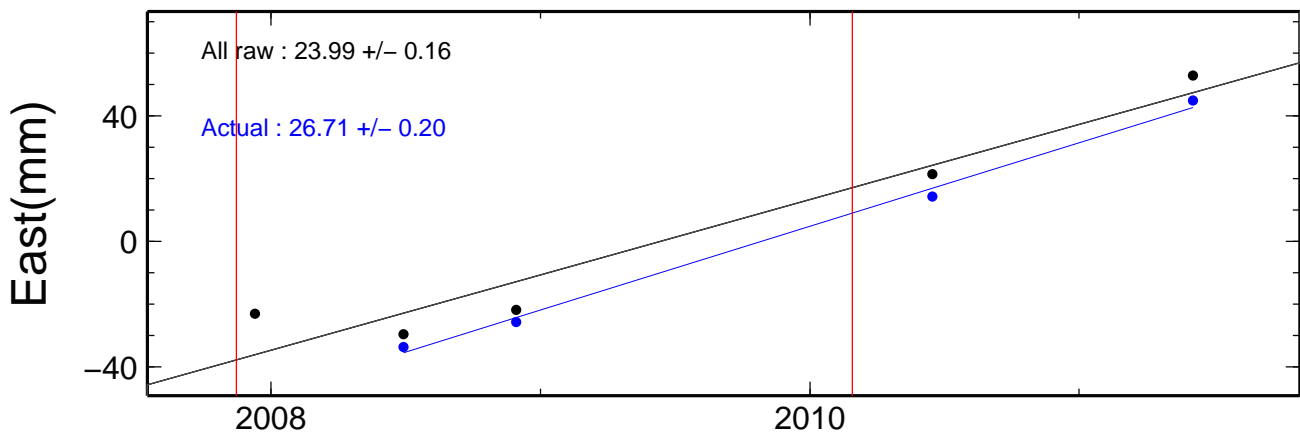
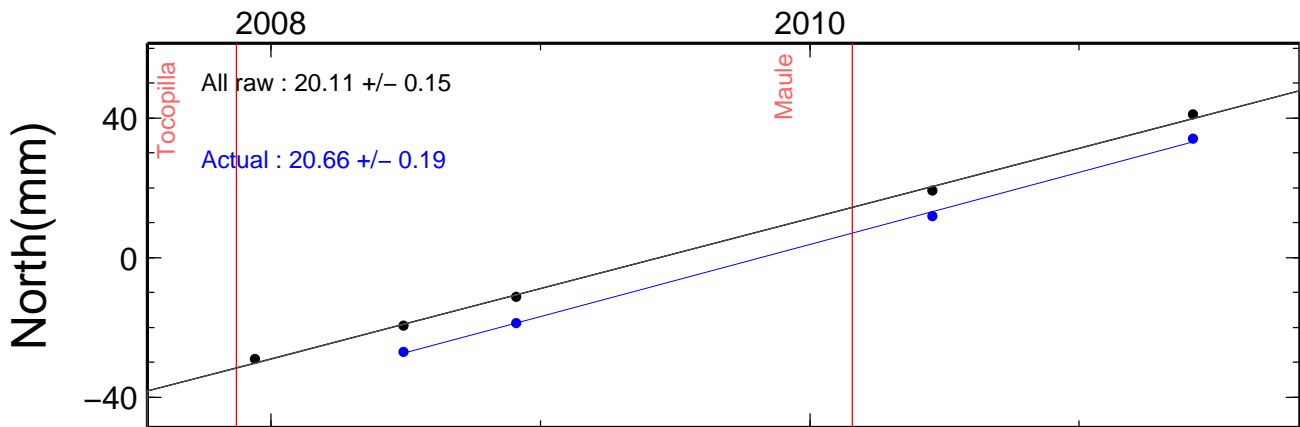
IQQ0



JLPO

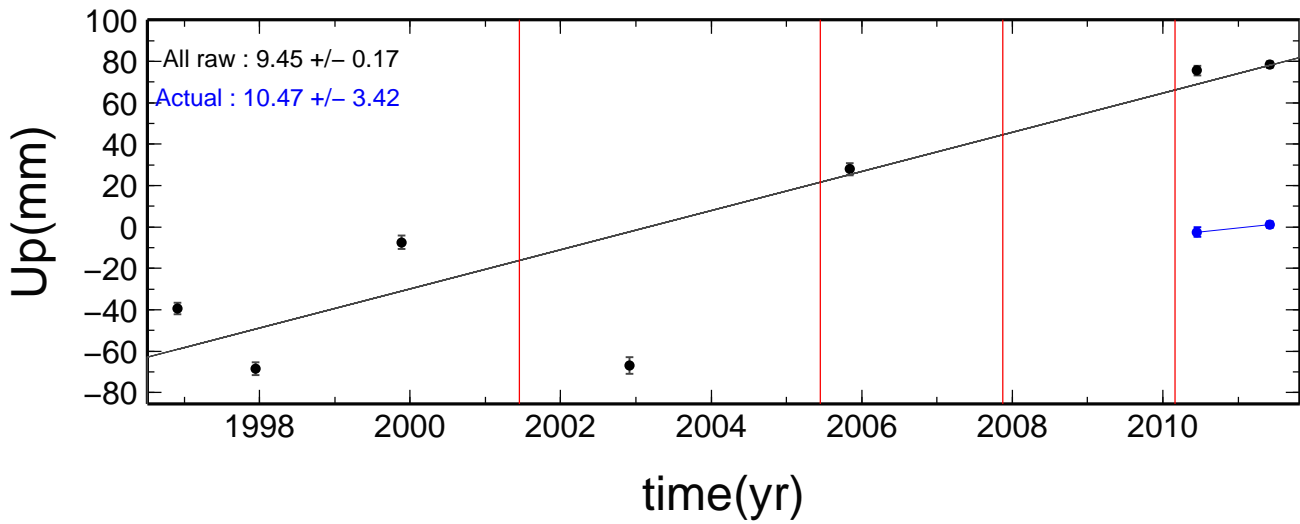
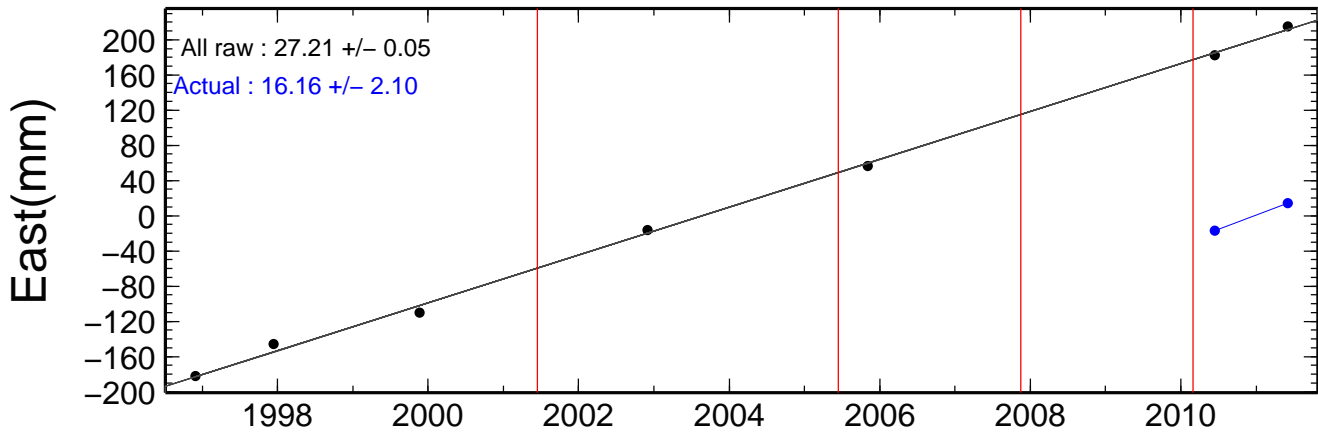
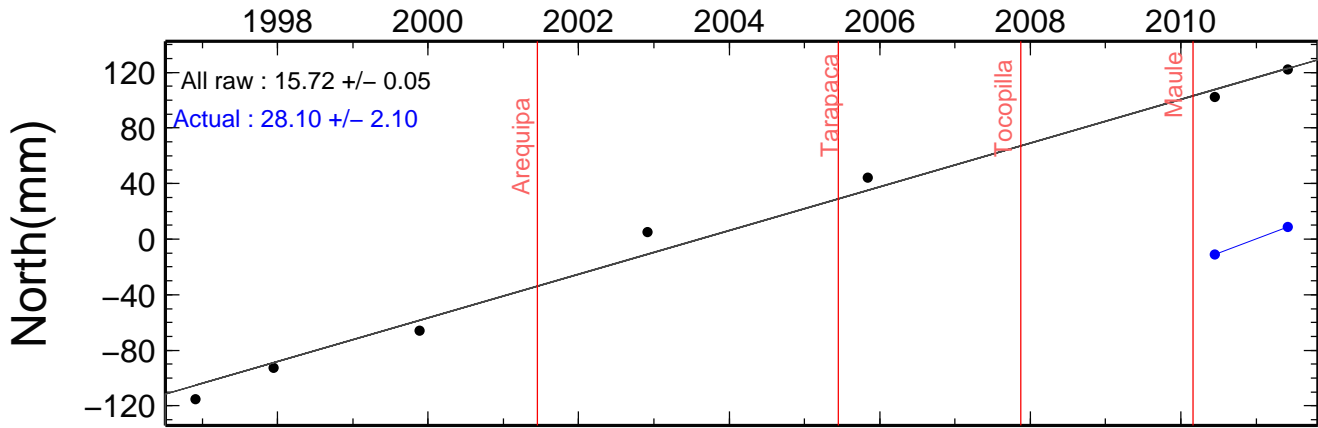


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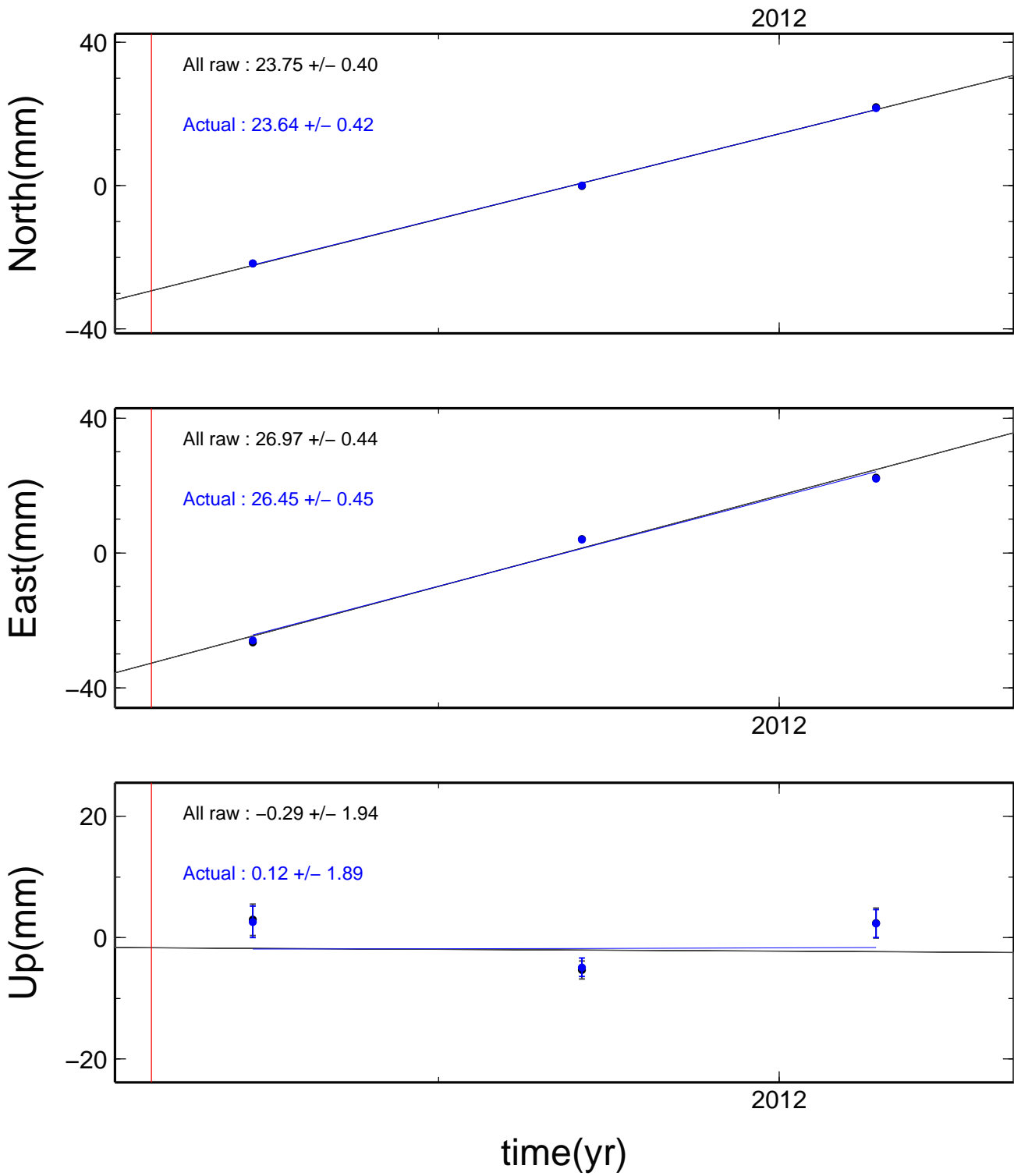


time(yr)

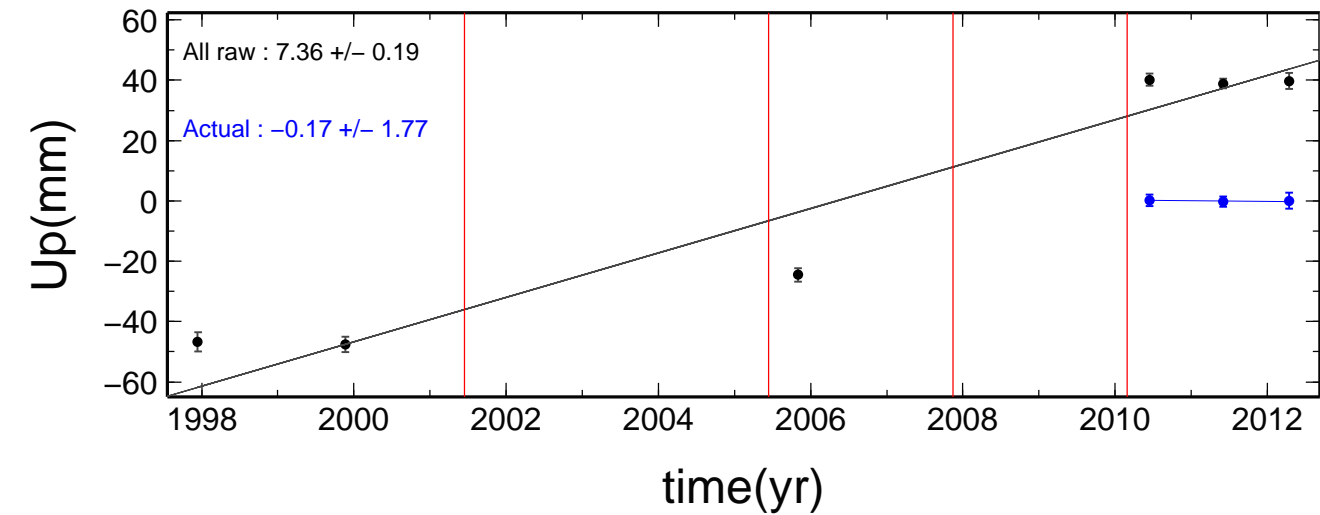
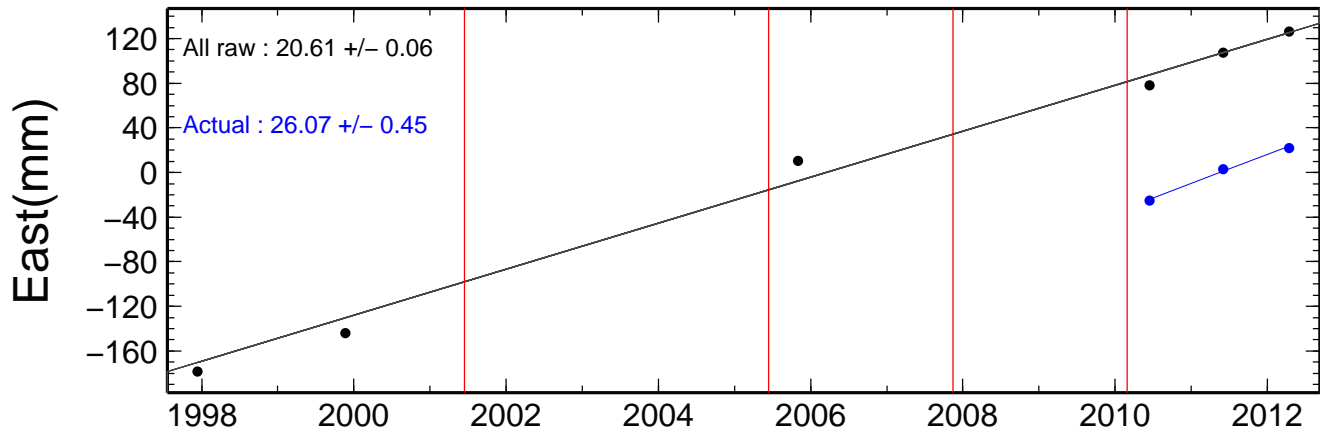
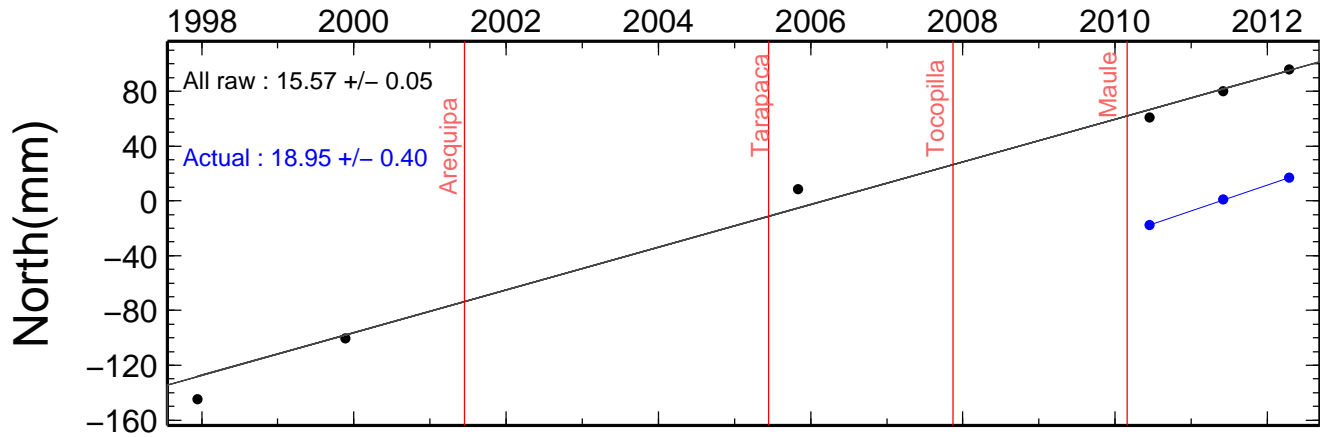
LIVE



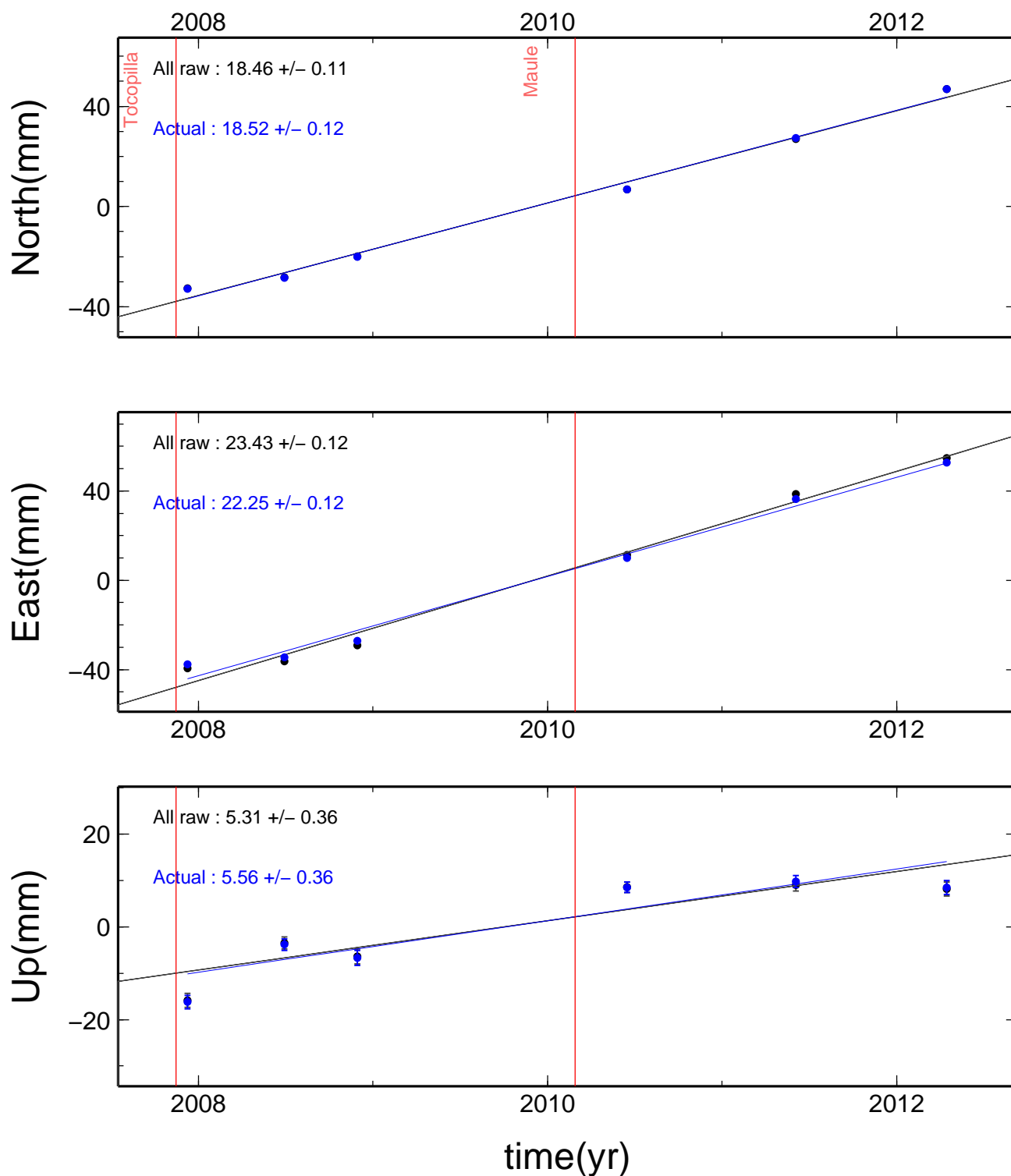
LOBO



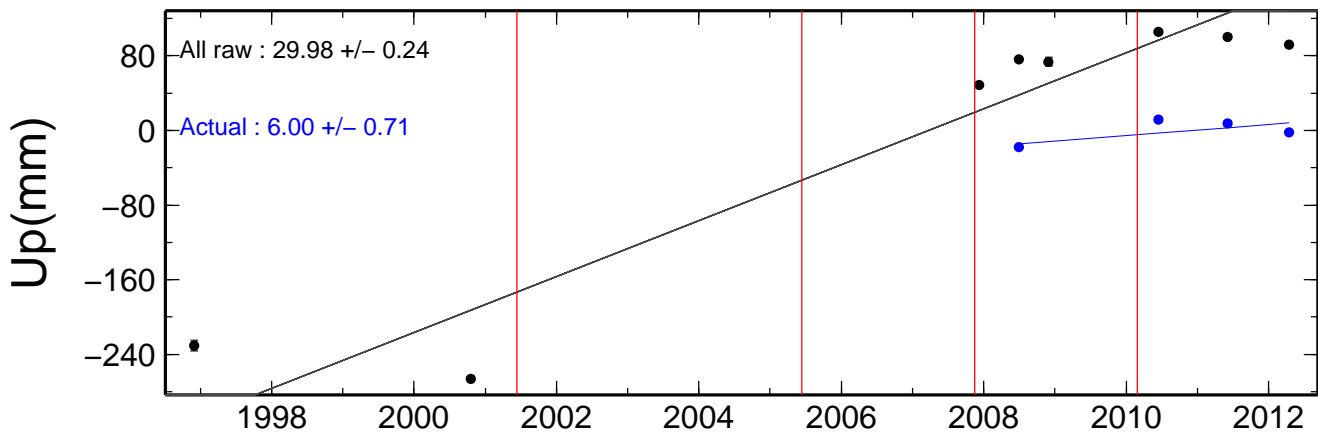
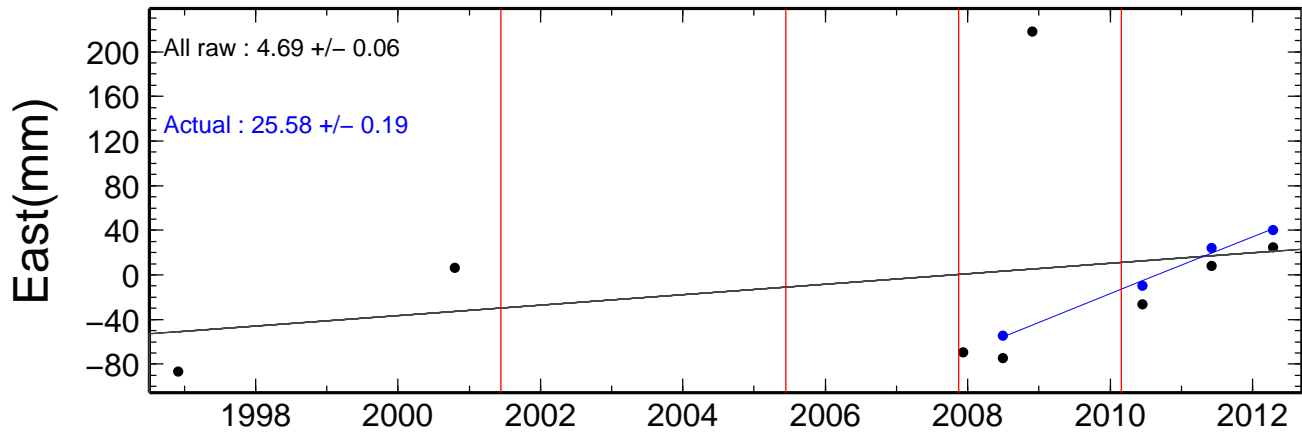
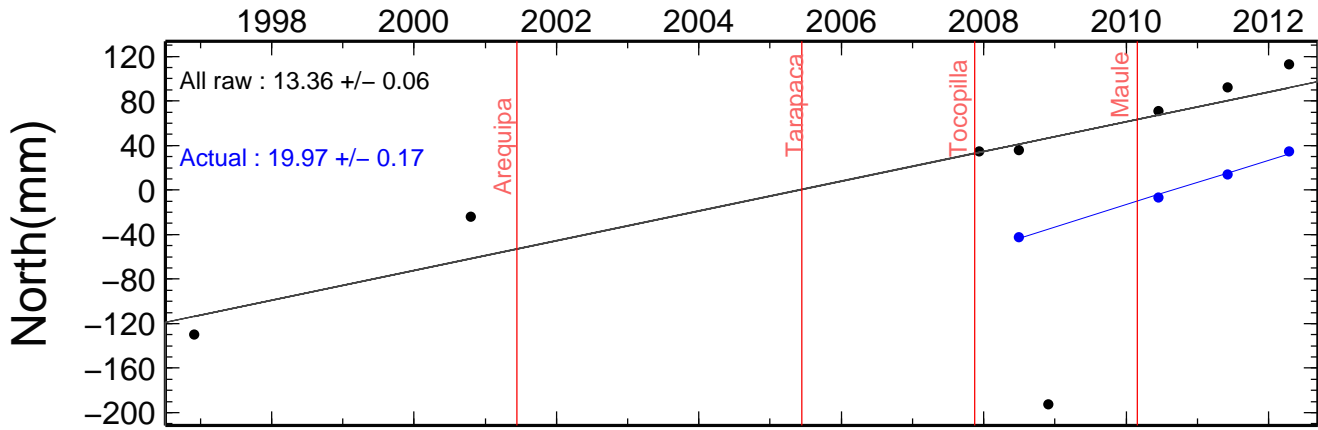
MABL



MCLA

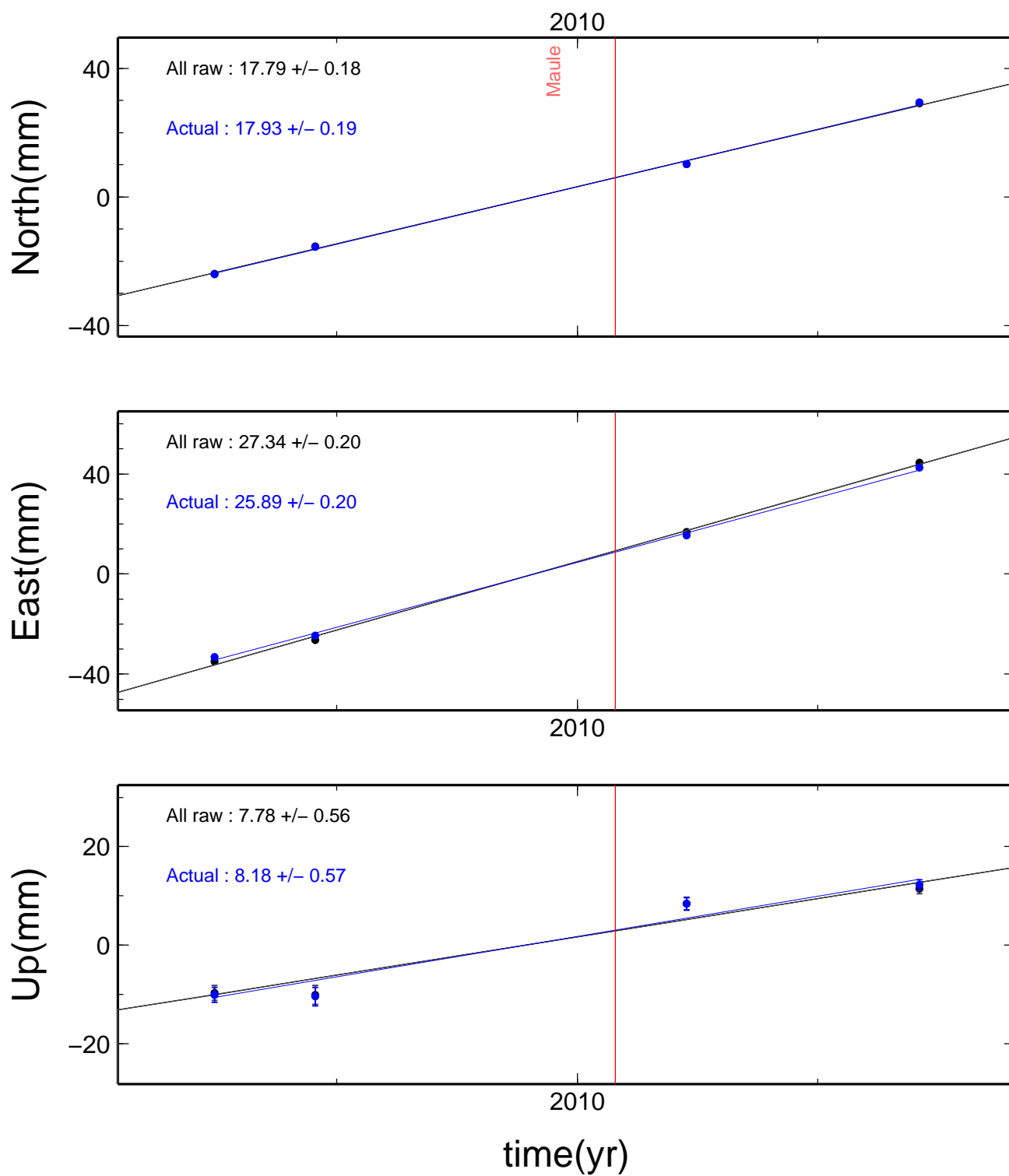


MEJO

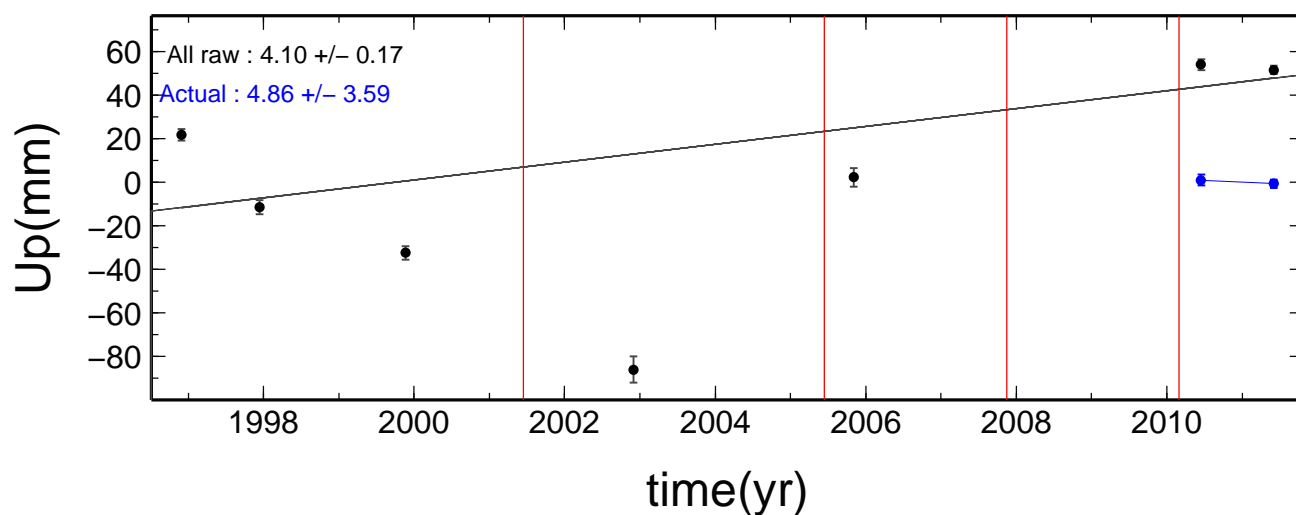
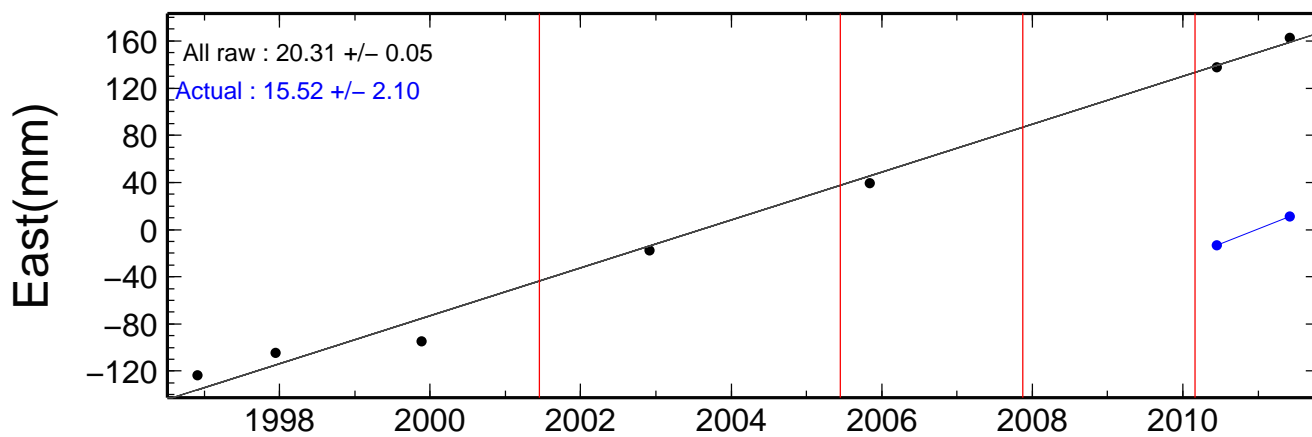
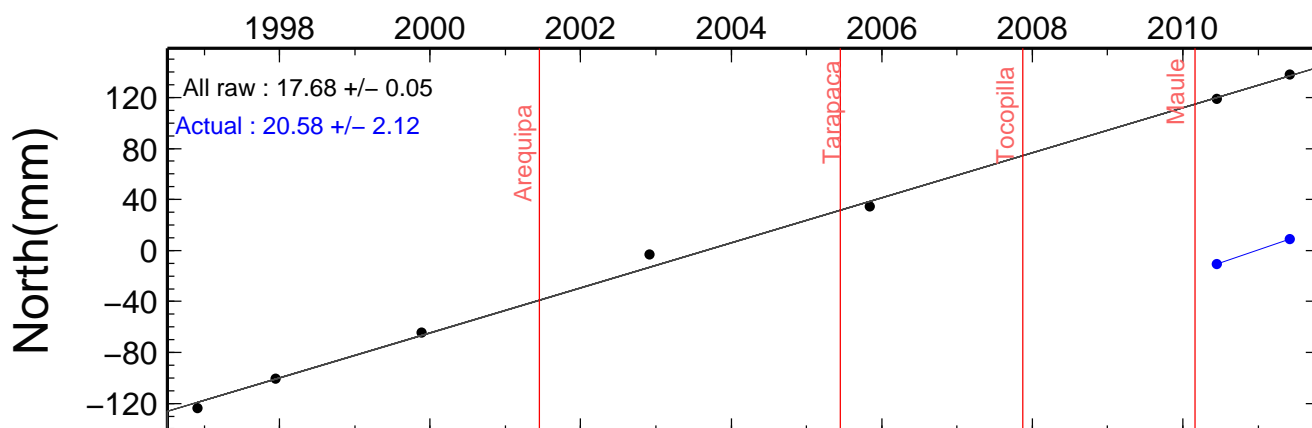


MEJO

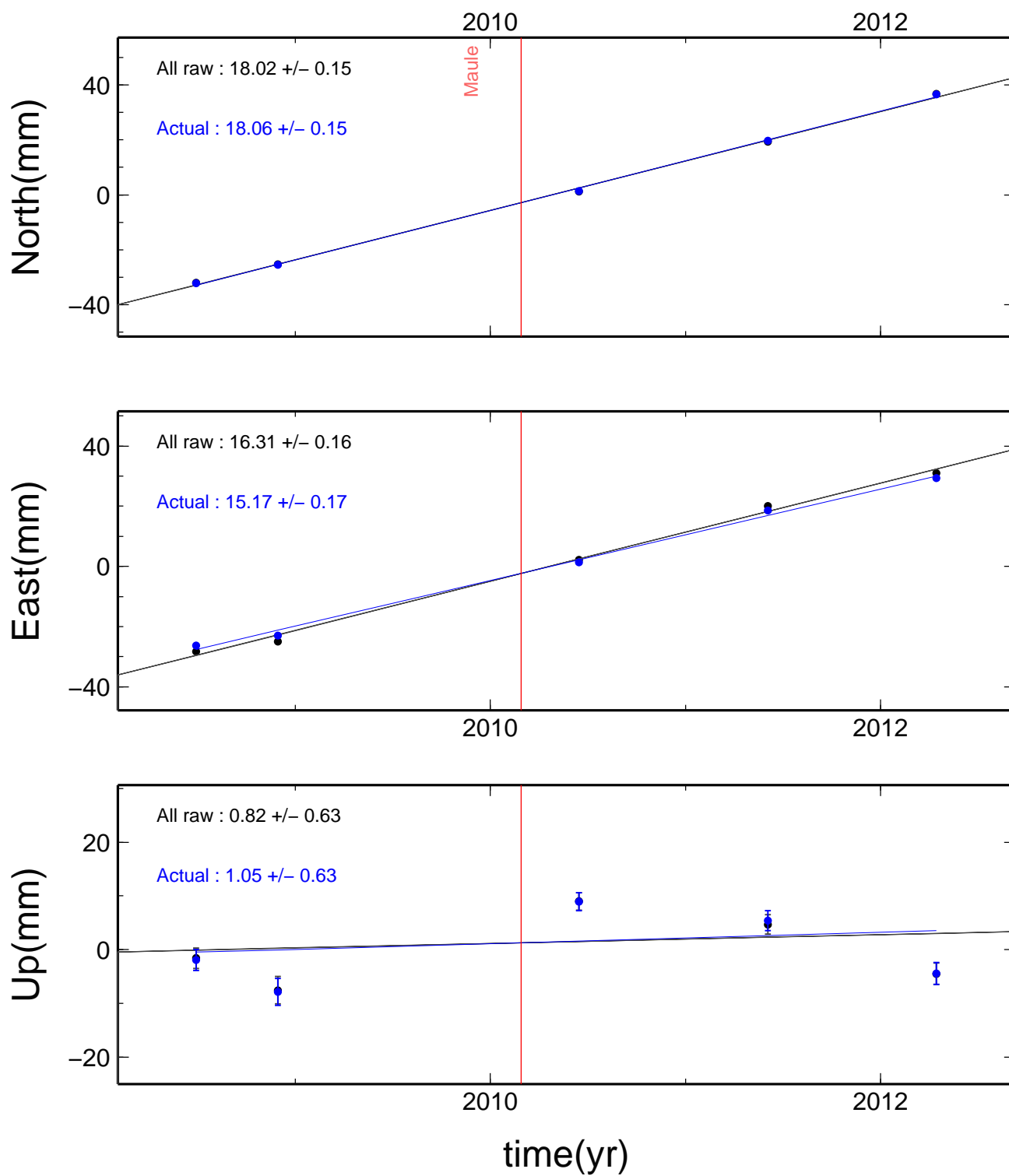
MICA



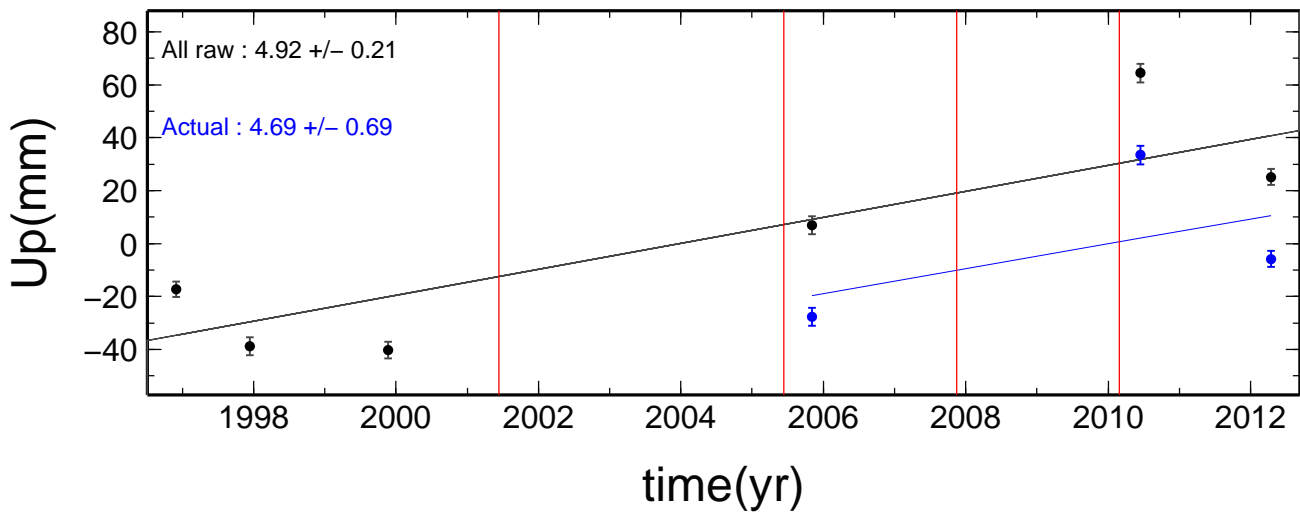
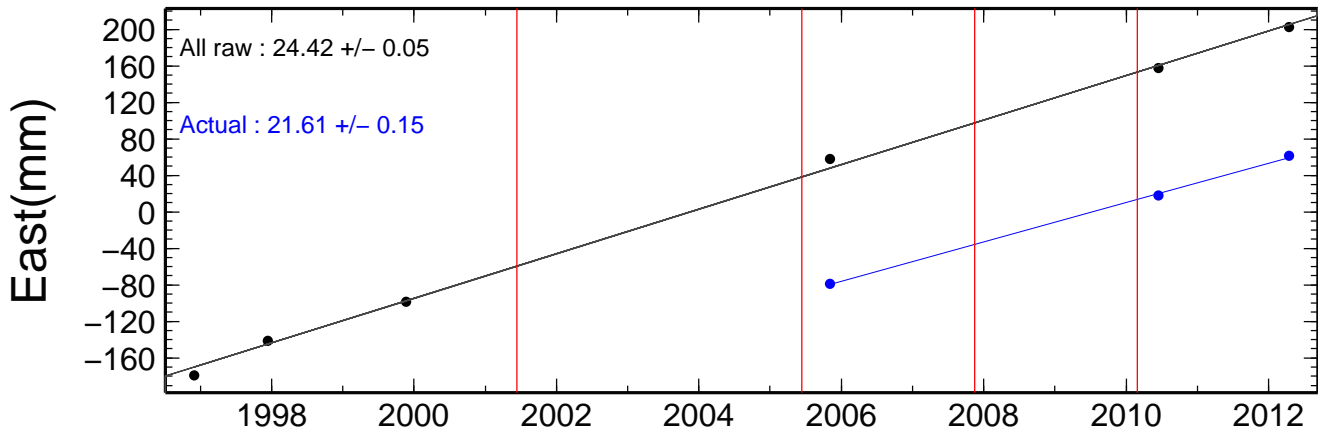
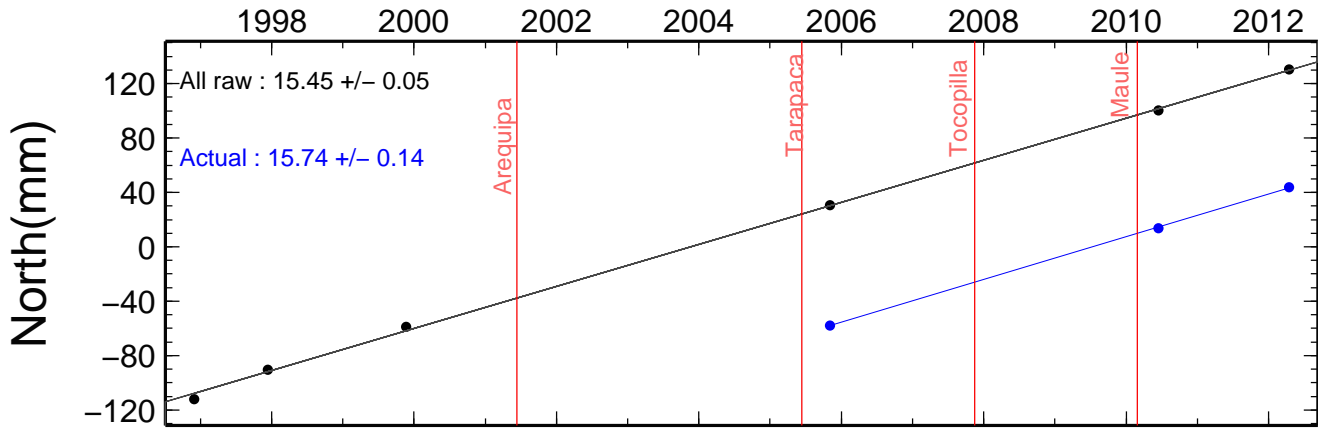
MINF



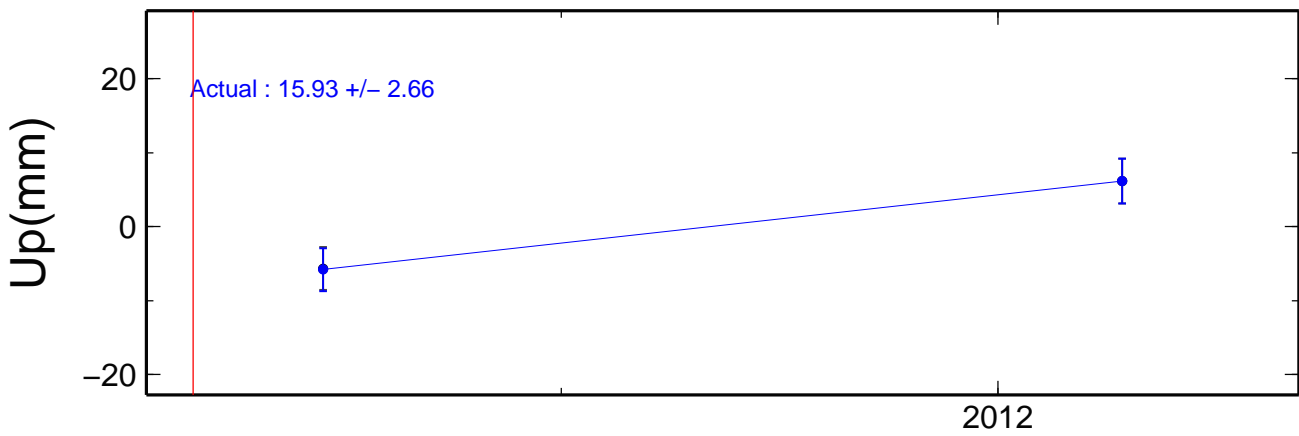
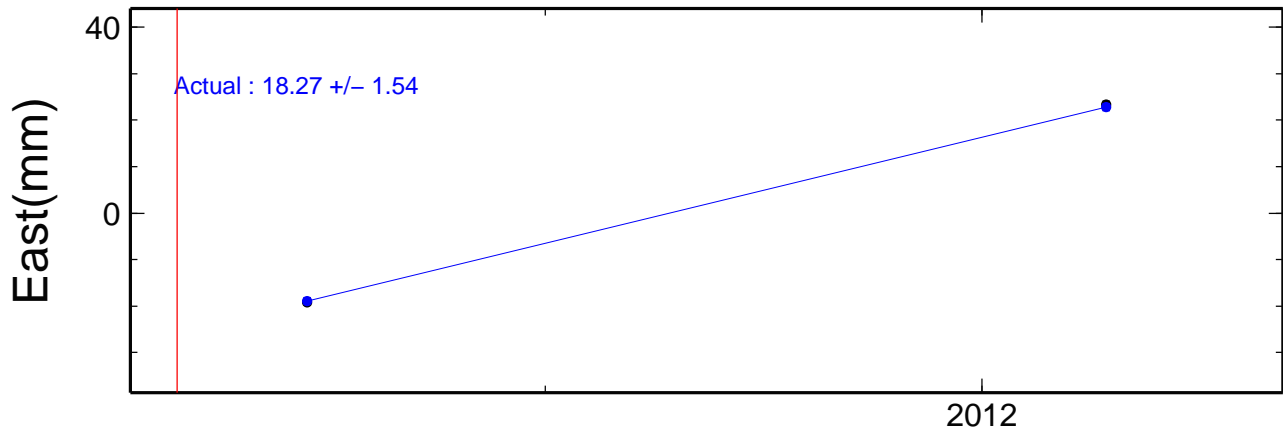
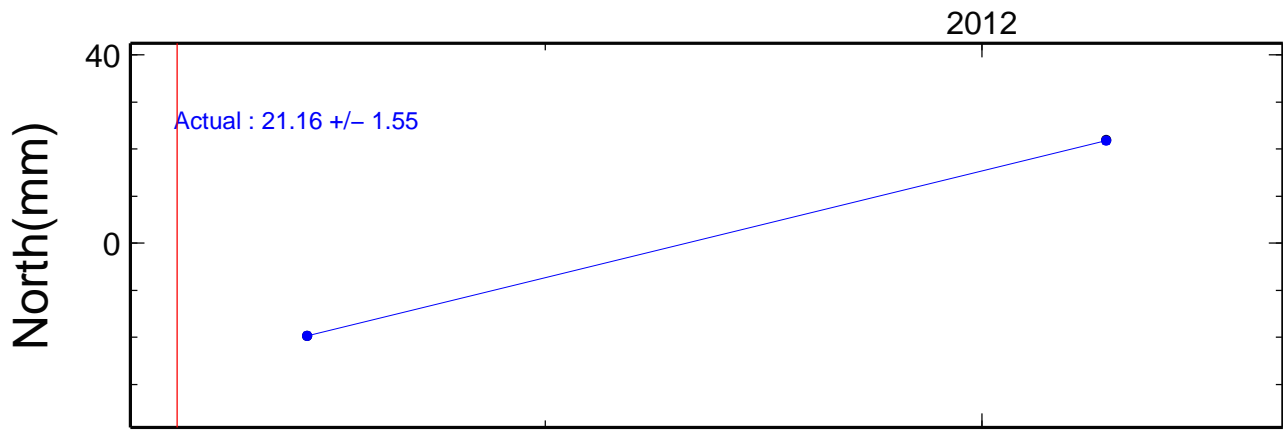
MNMI



OFLA

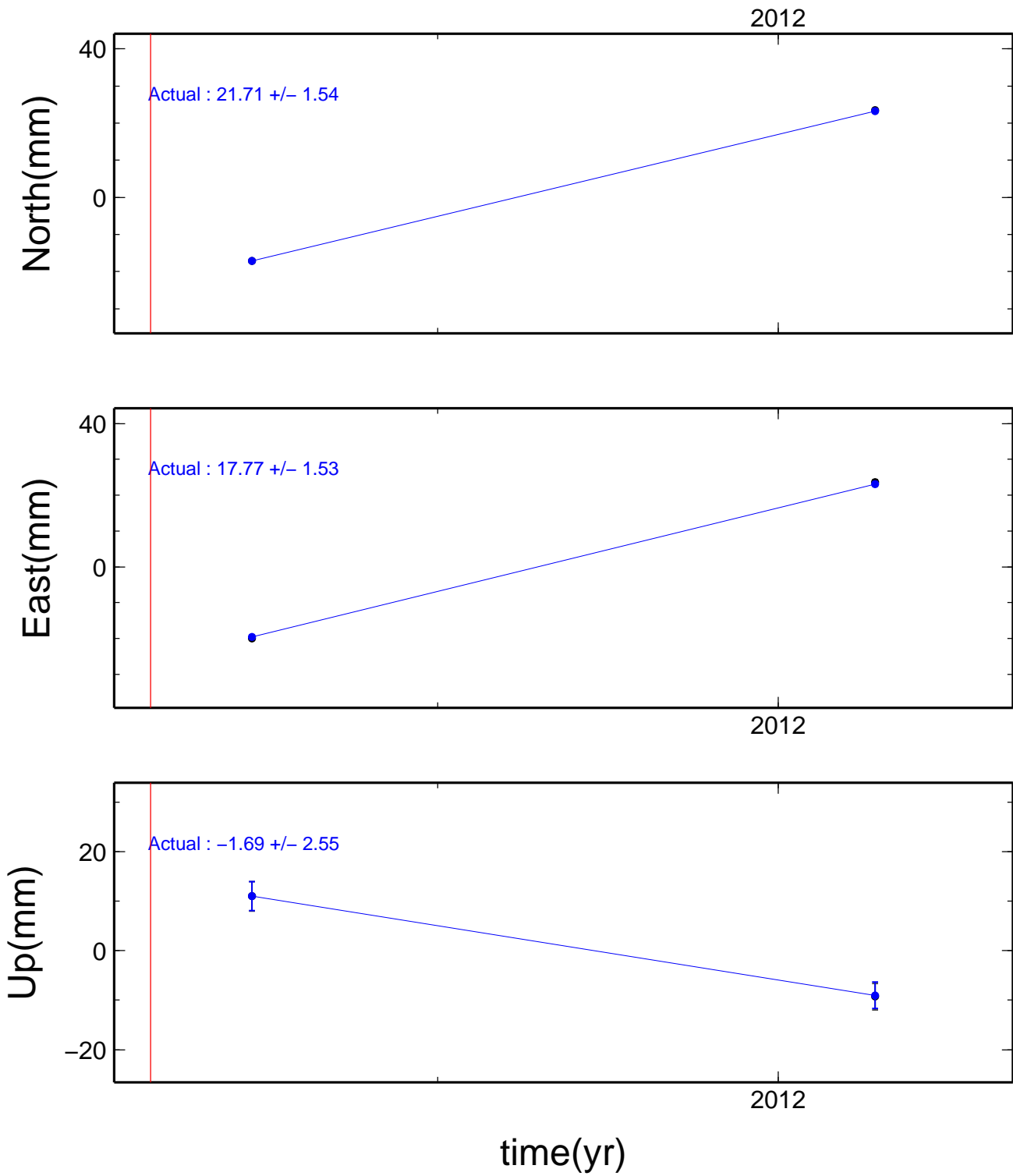


PA20

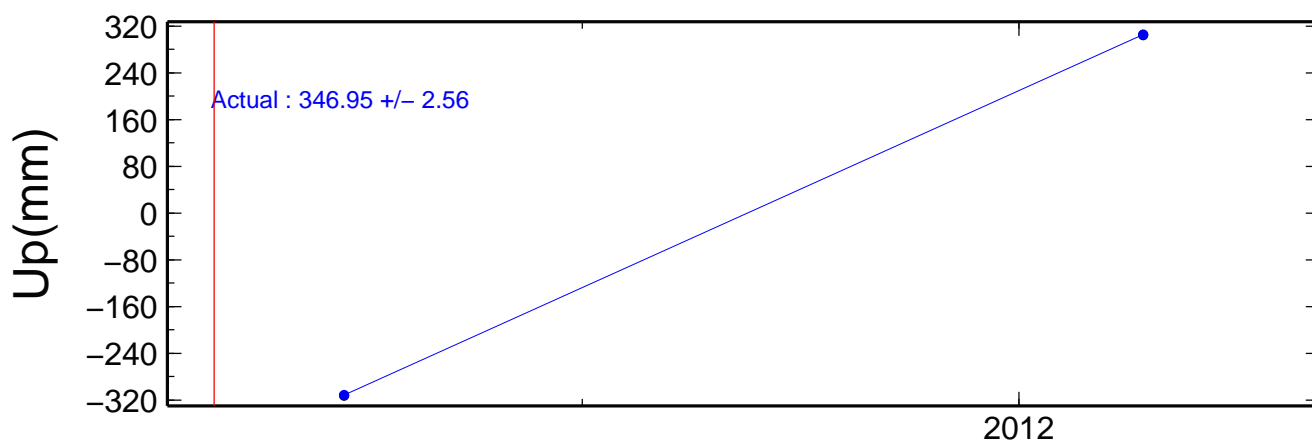
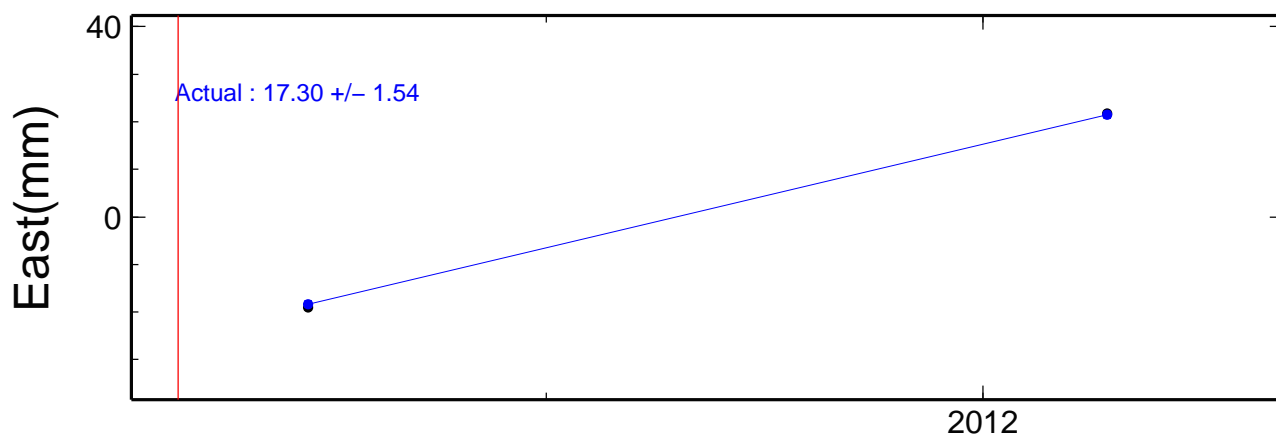
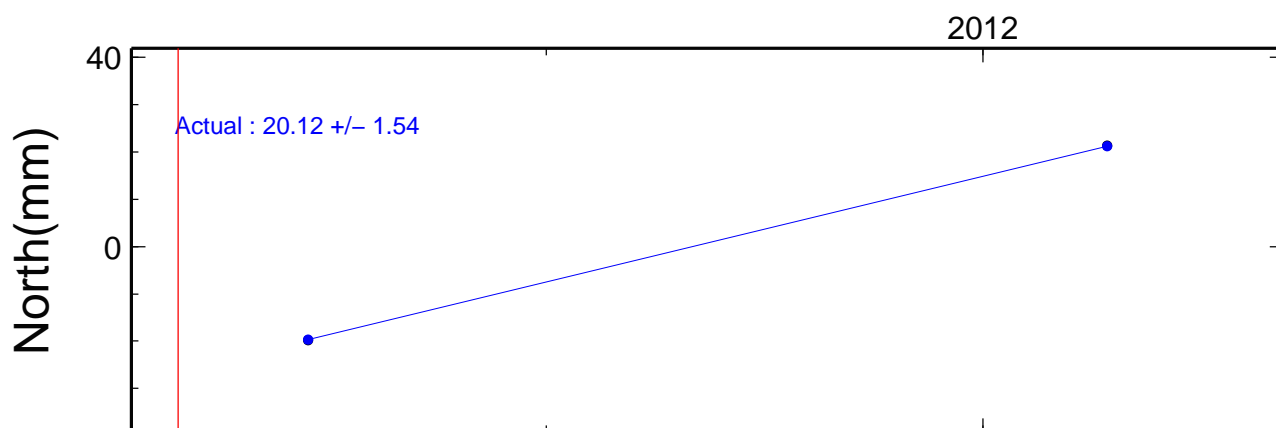


time(yr)

PA30

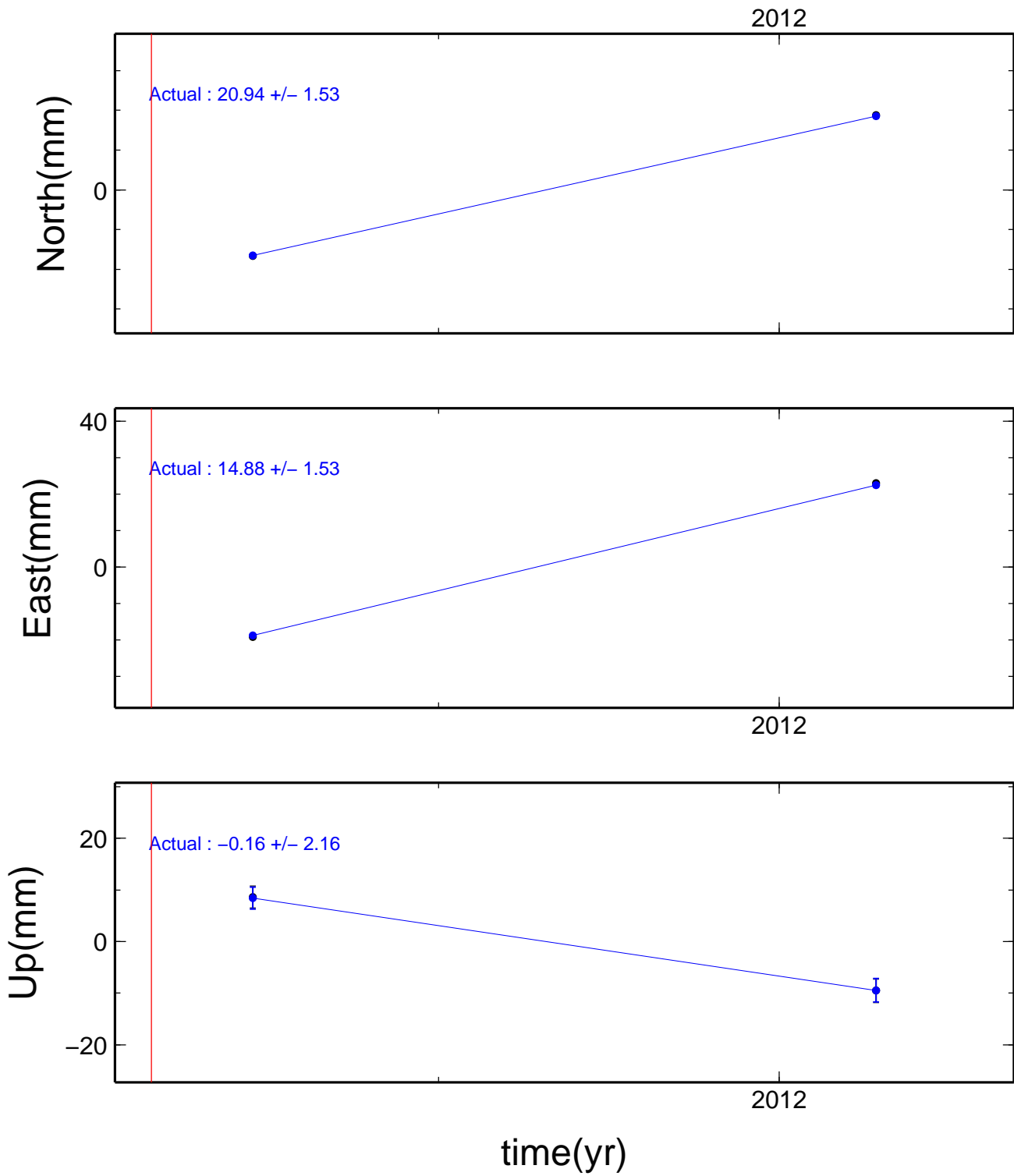


PA40

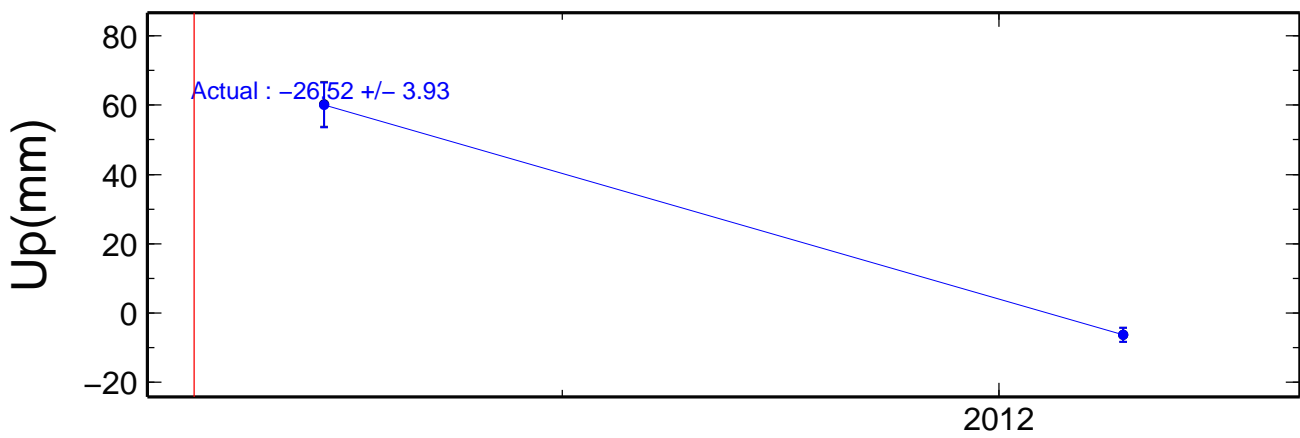
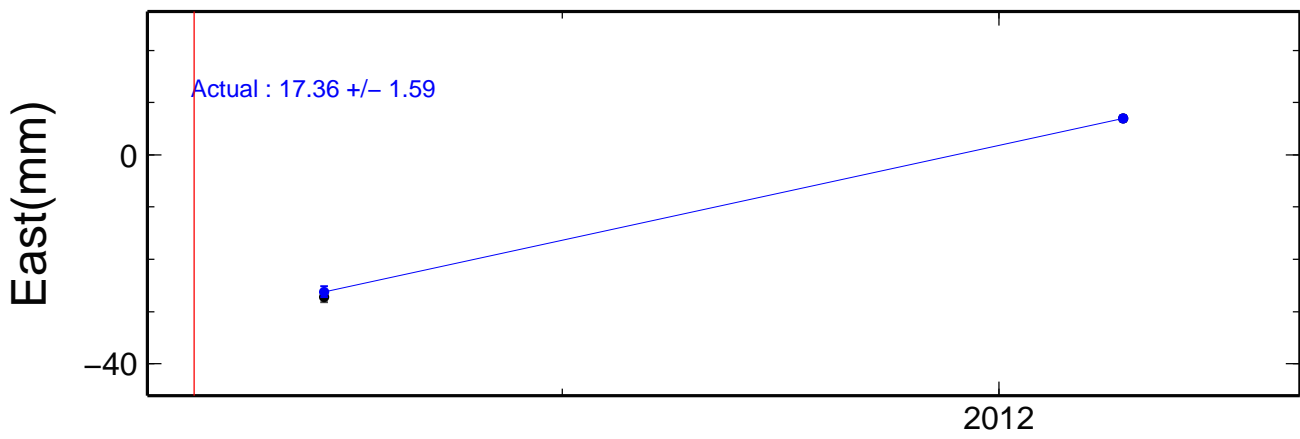
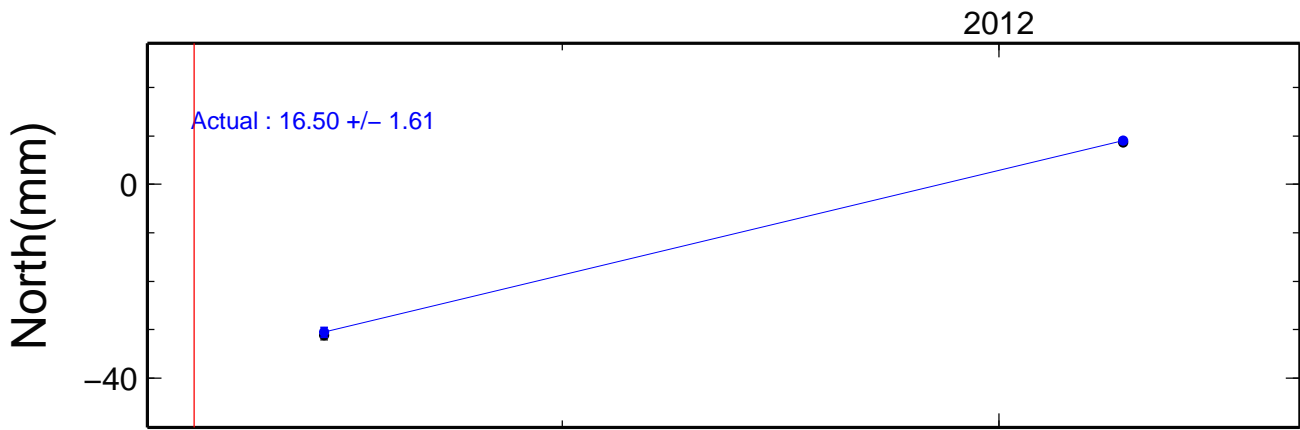


PA40

PA50

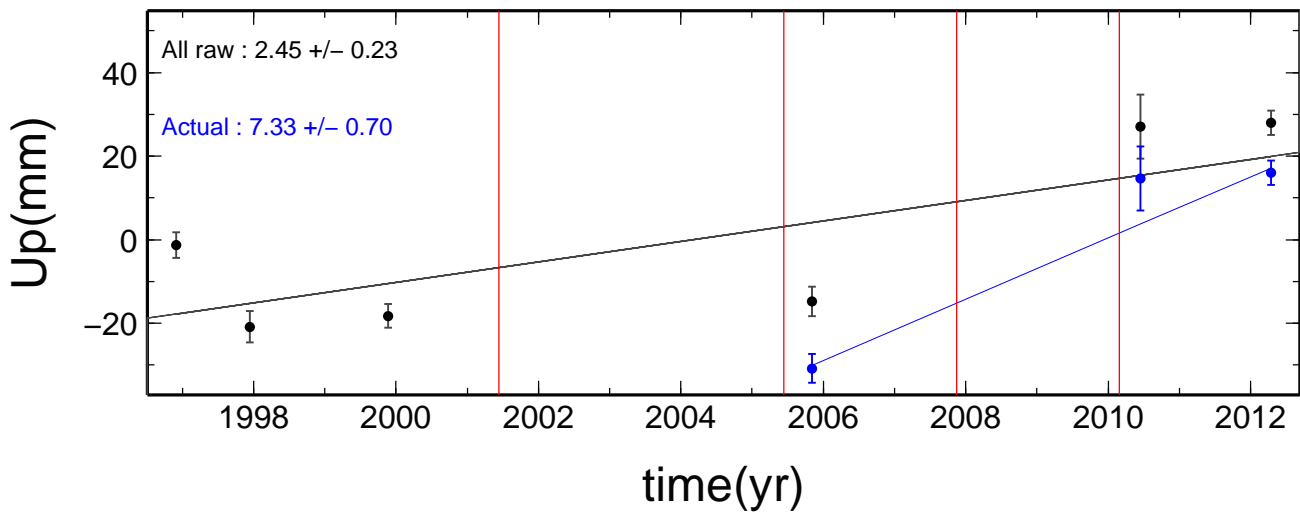
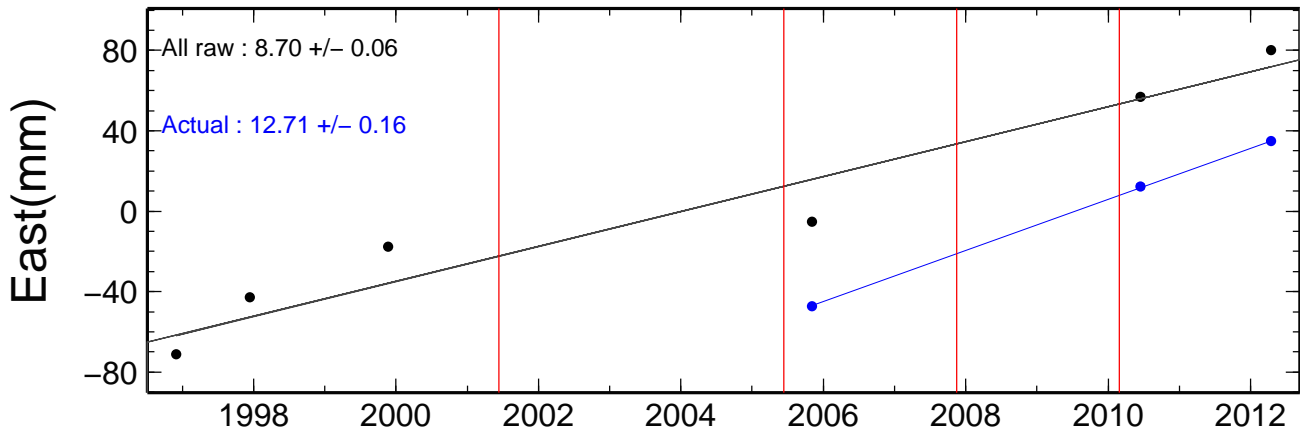
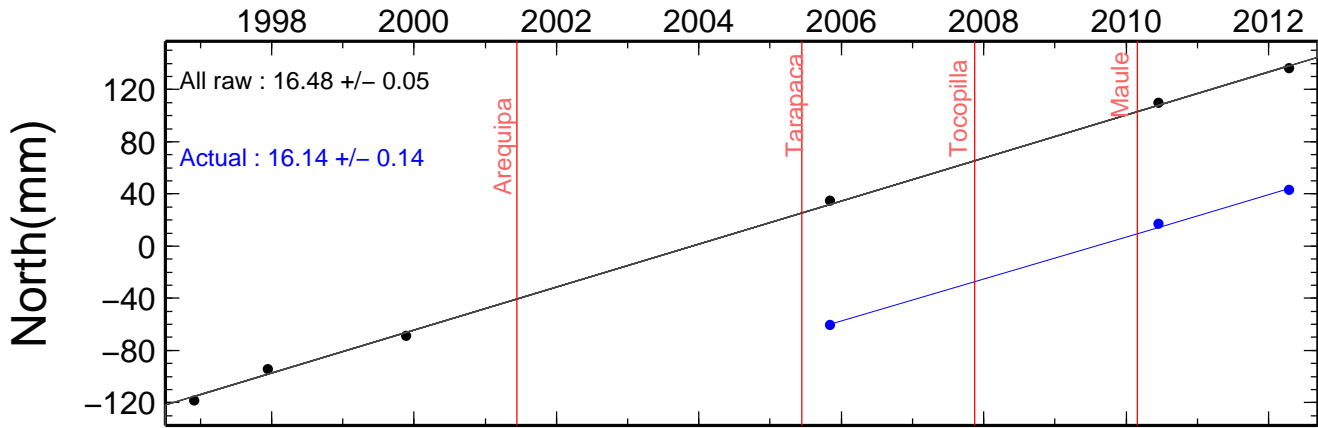


PA70

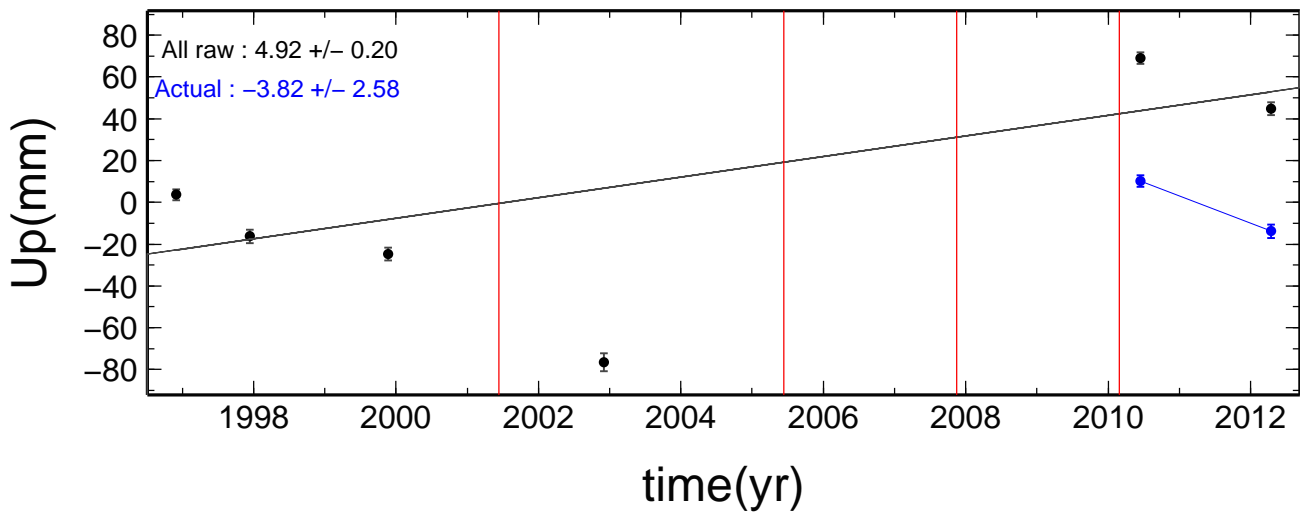
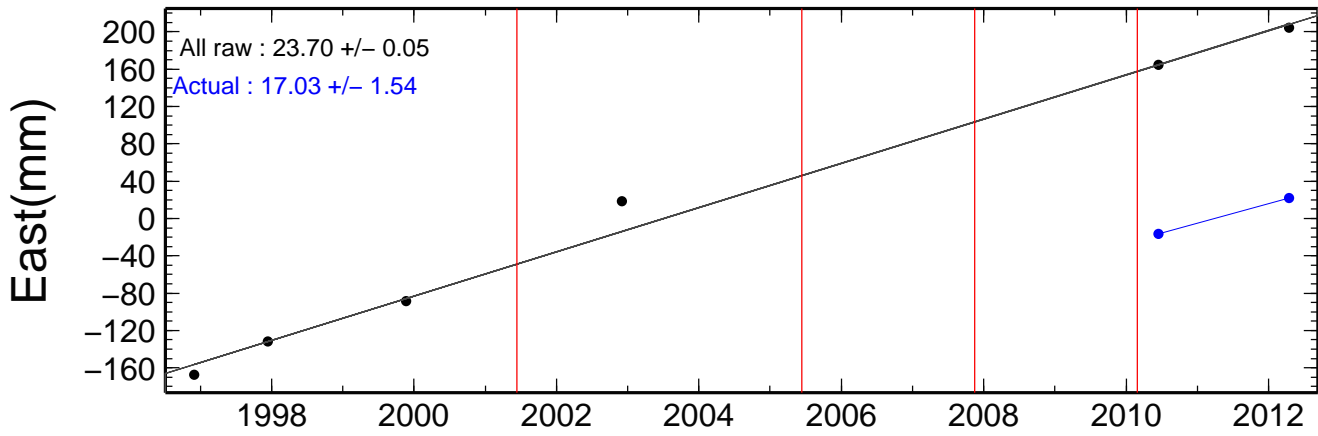
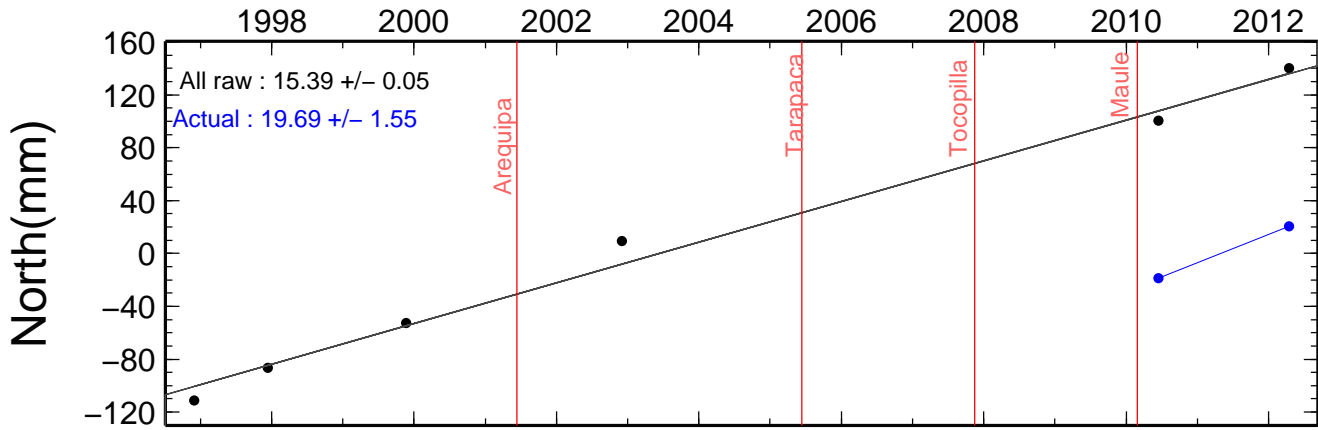


time(yr)

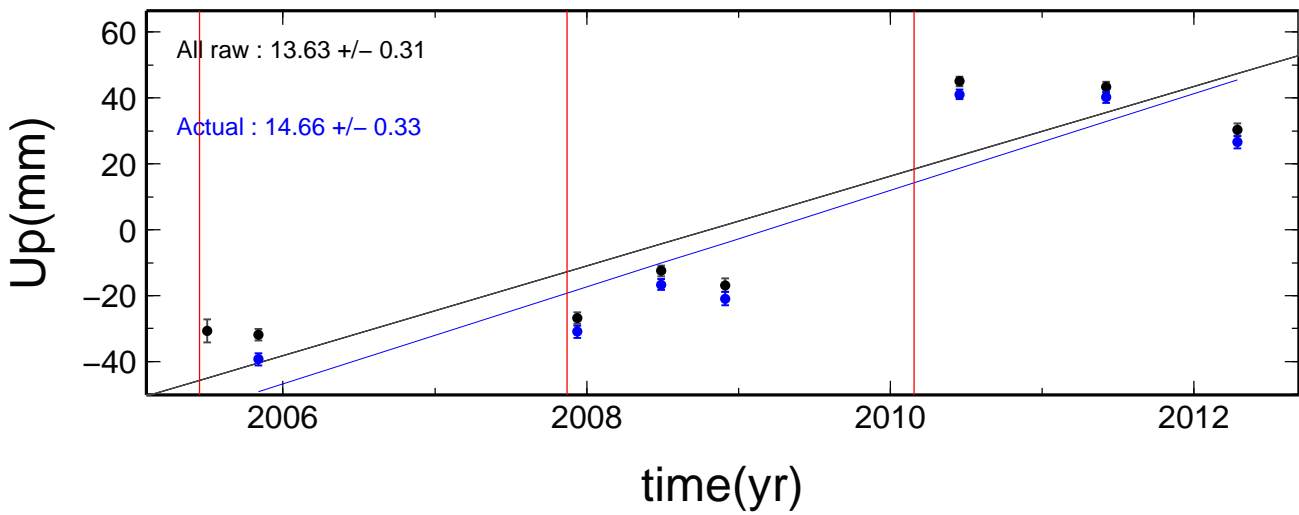
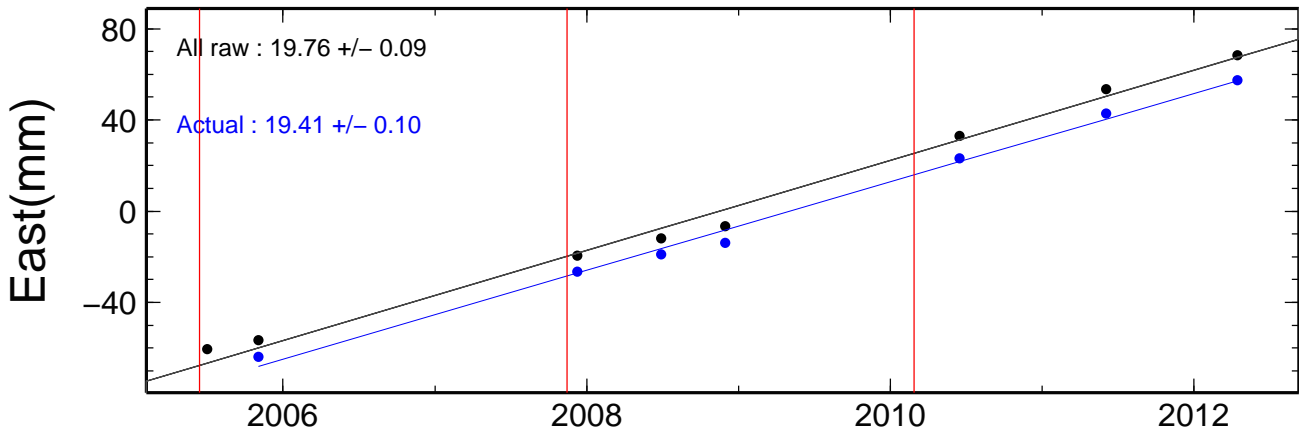
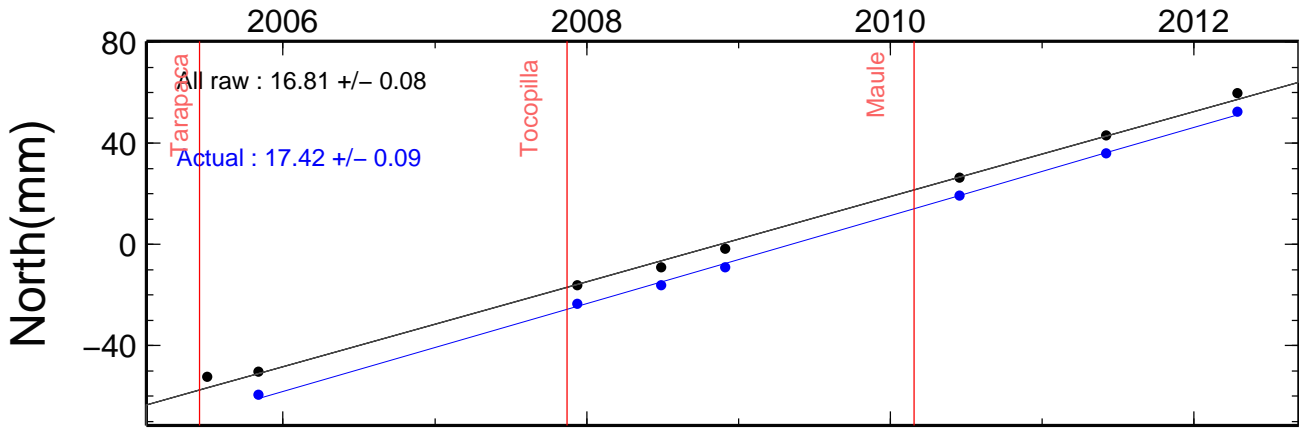
PACO



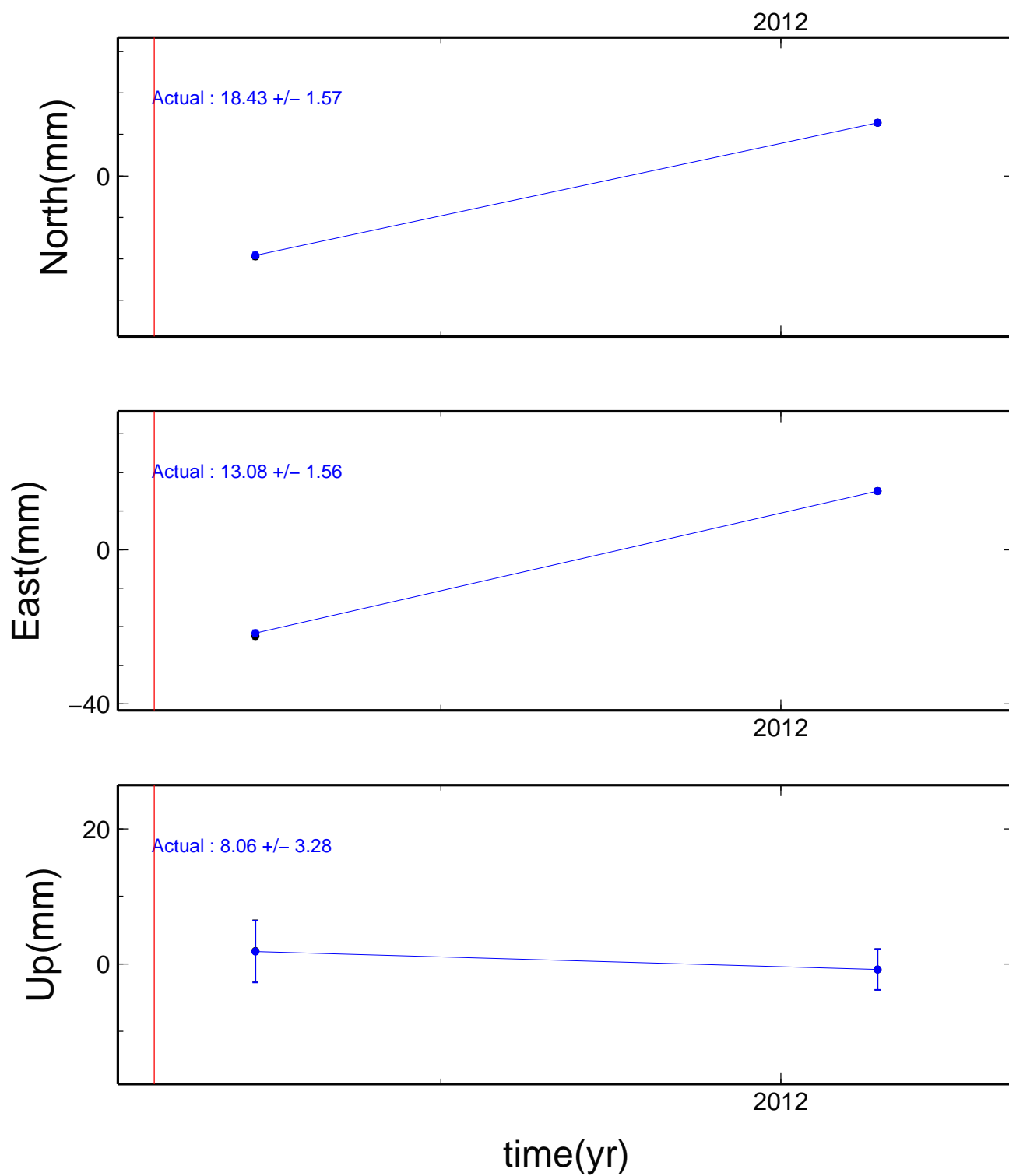
PATI



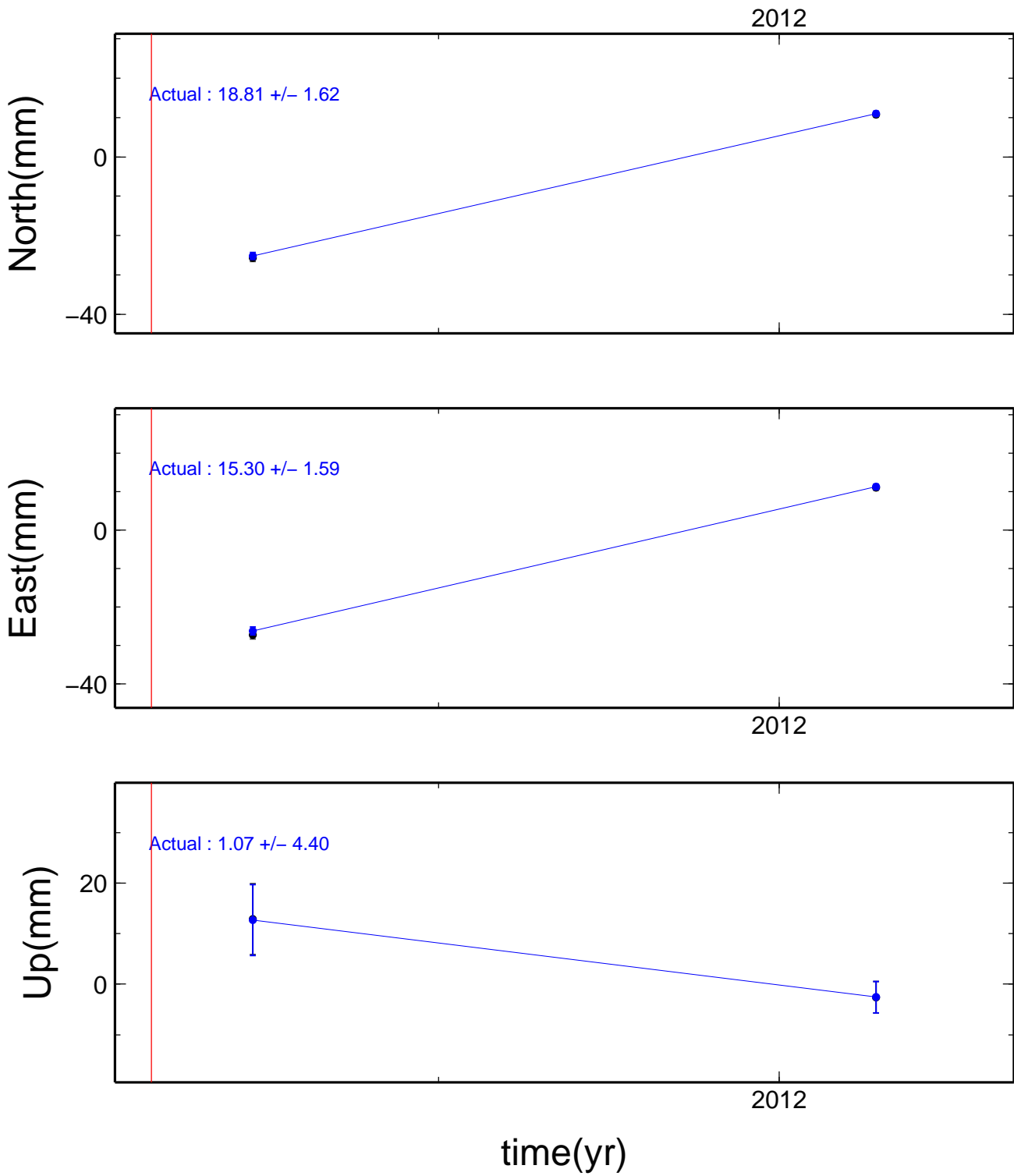
PCHA



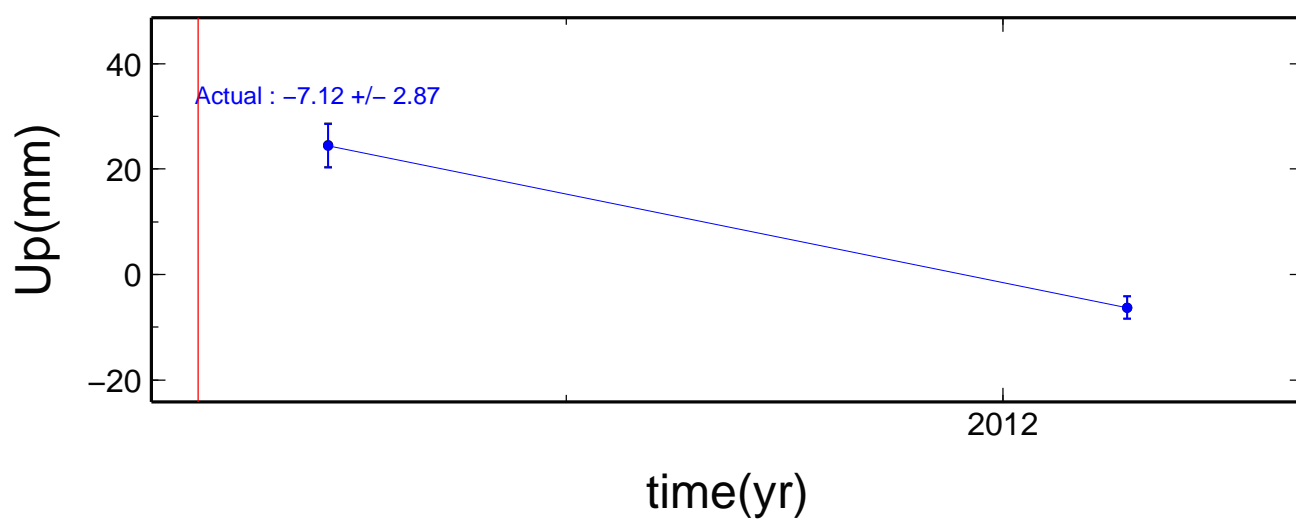
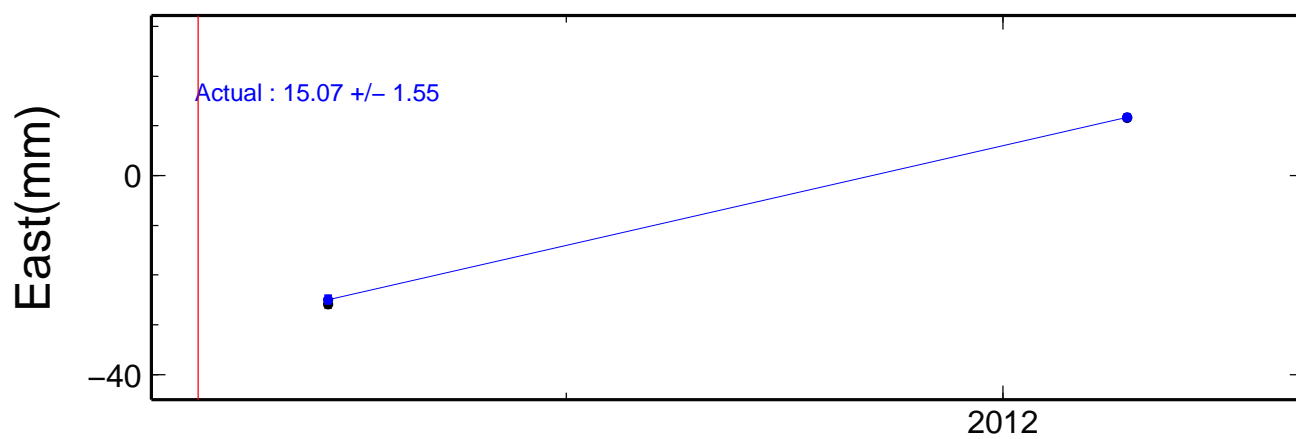
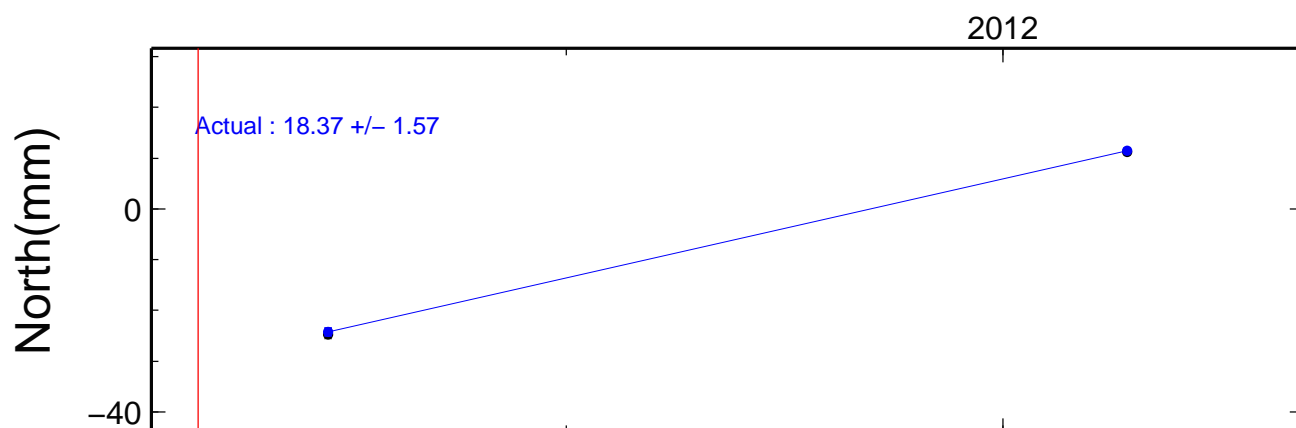
PI10



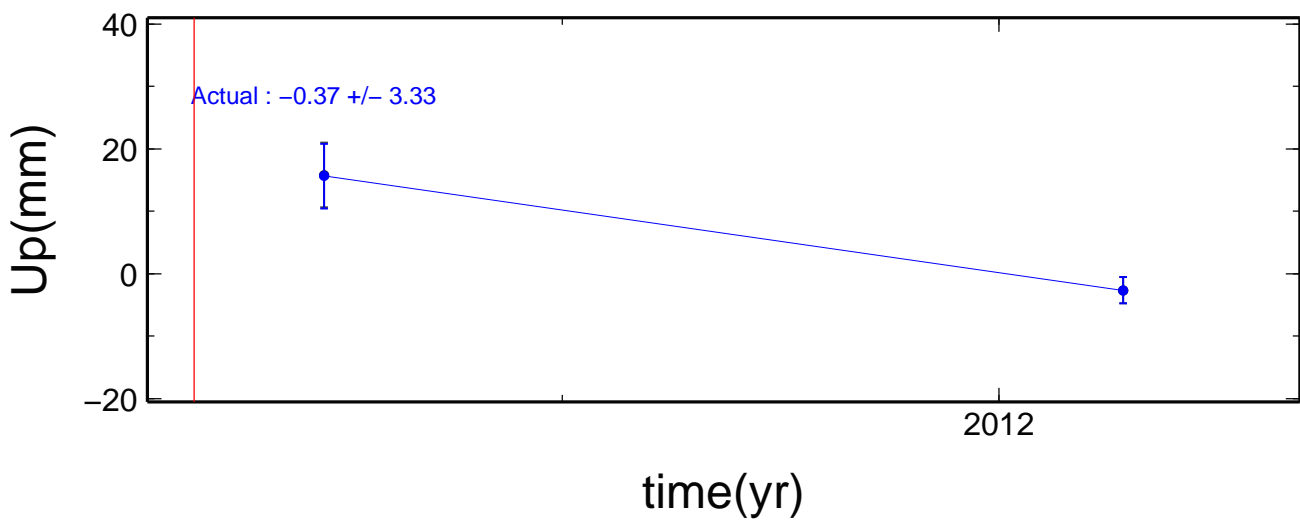
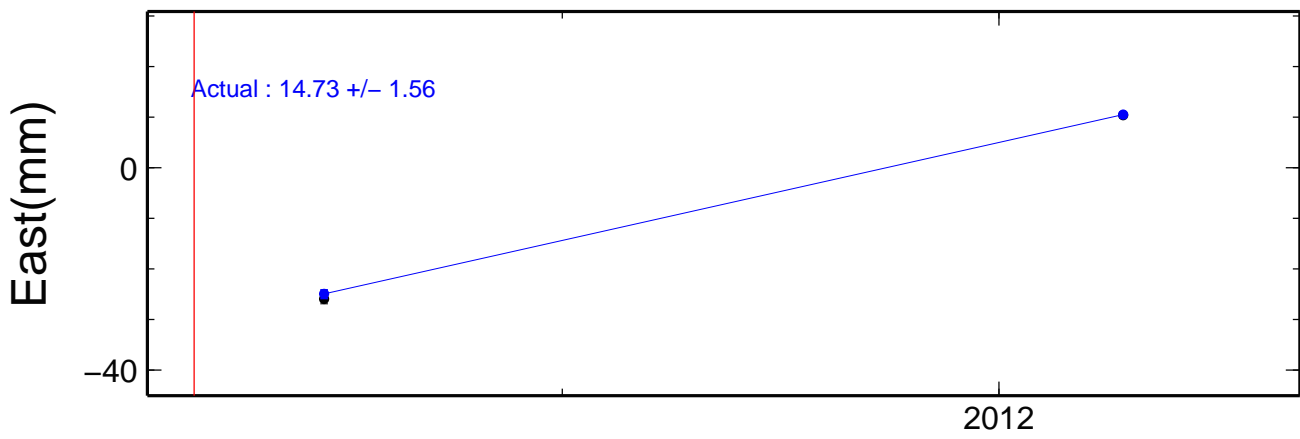
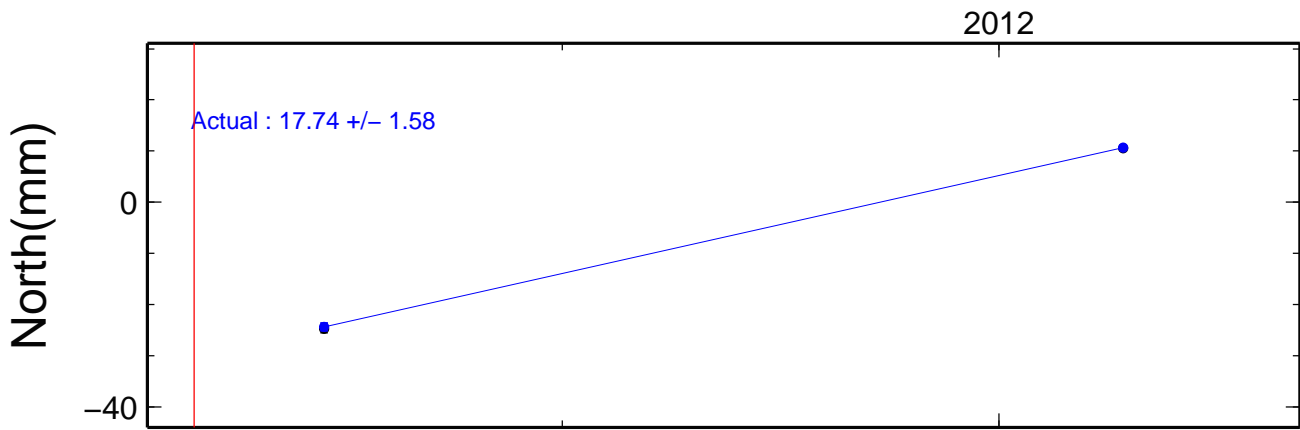
PI30



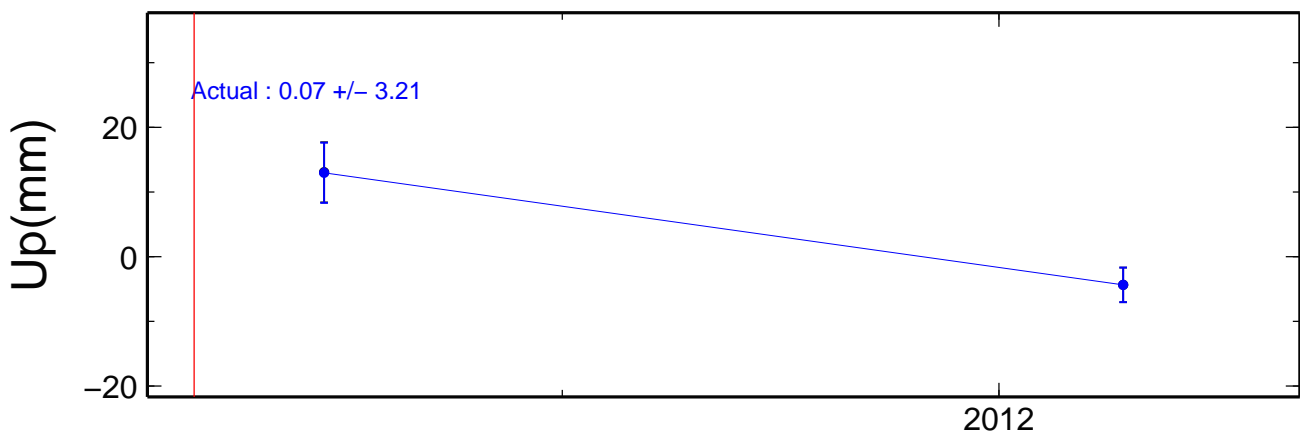
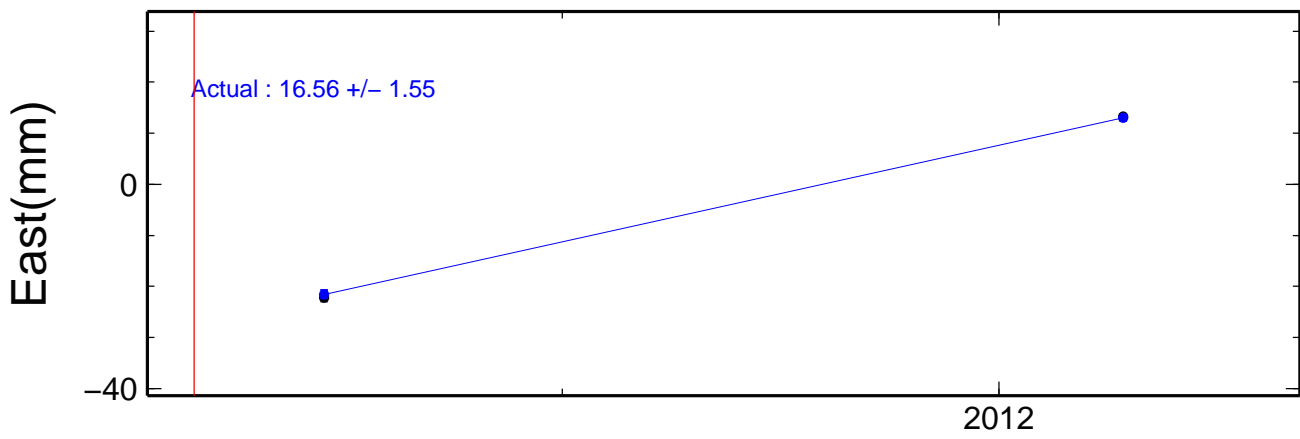
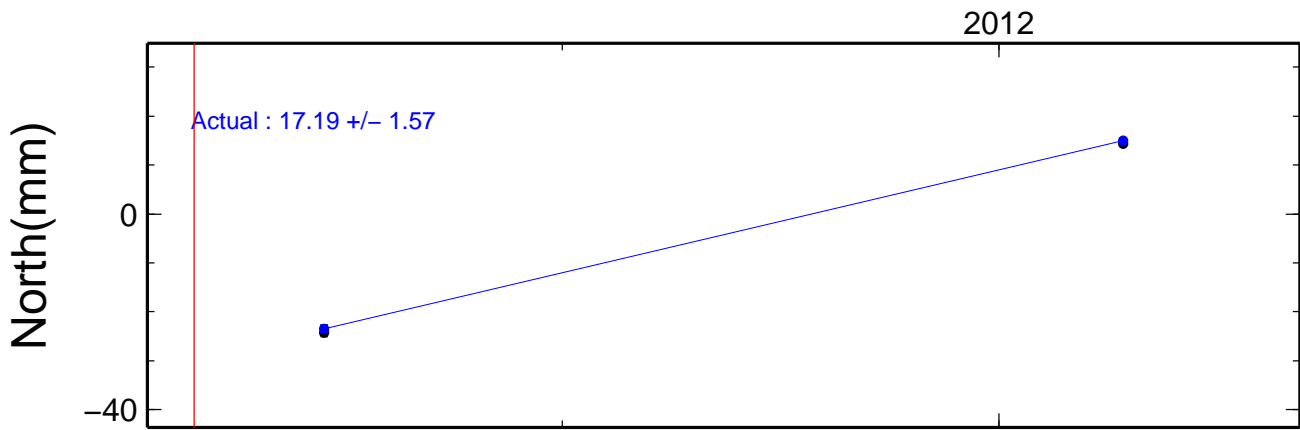
PI40



PI50

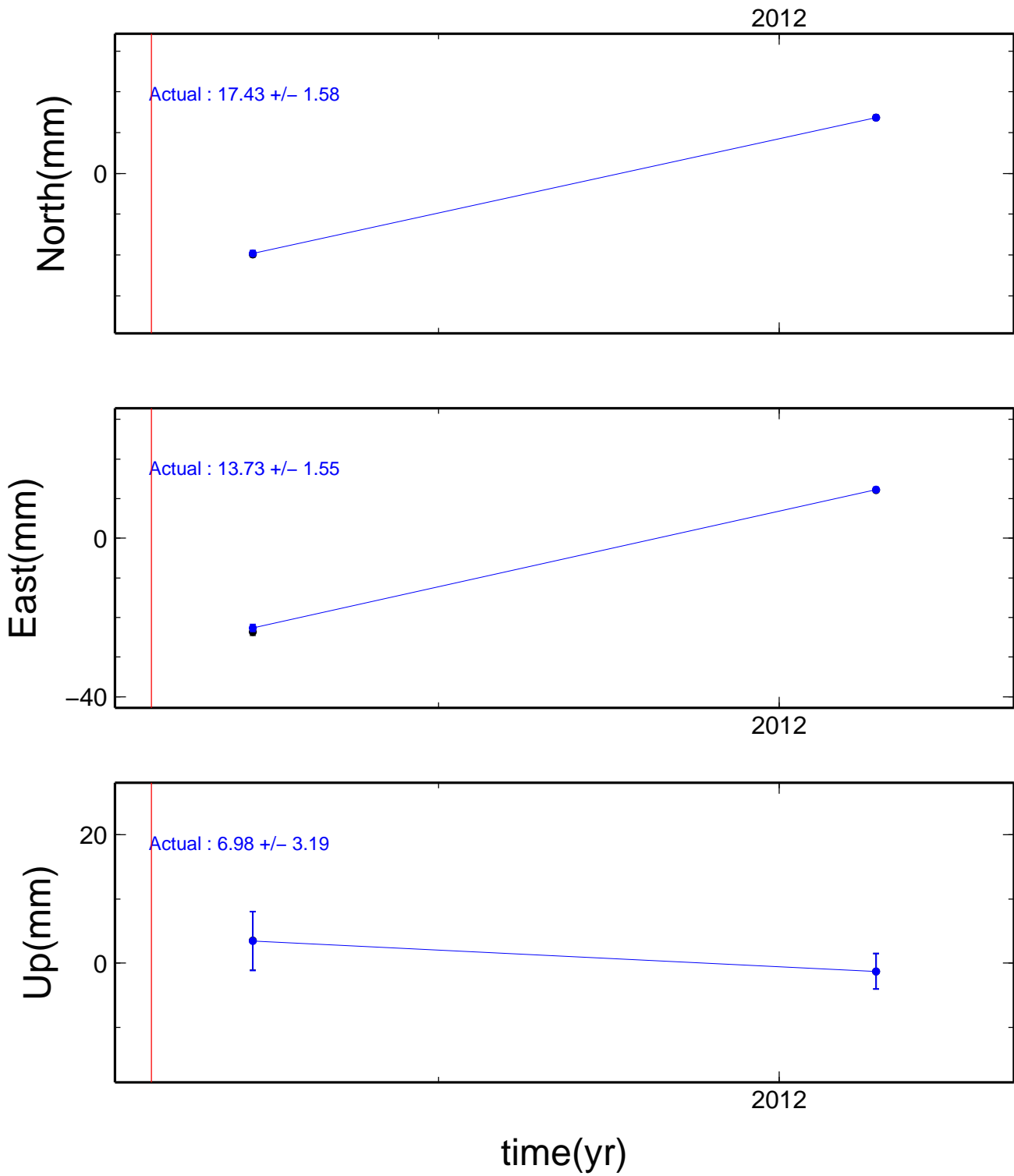


PI60

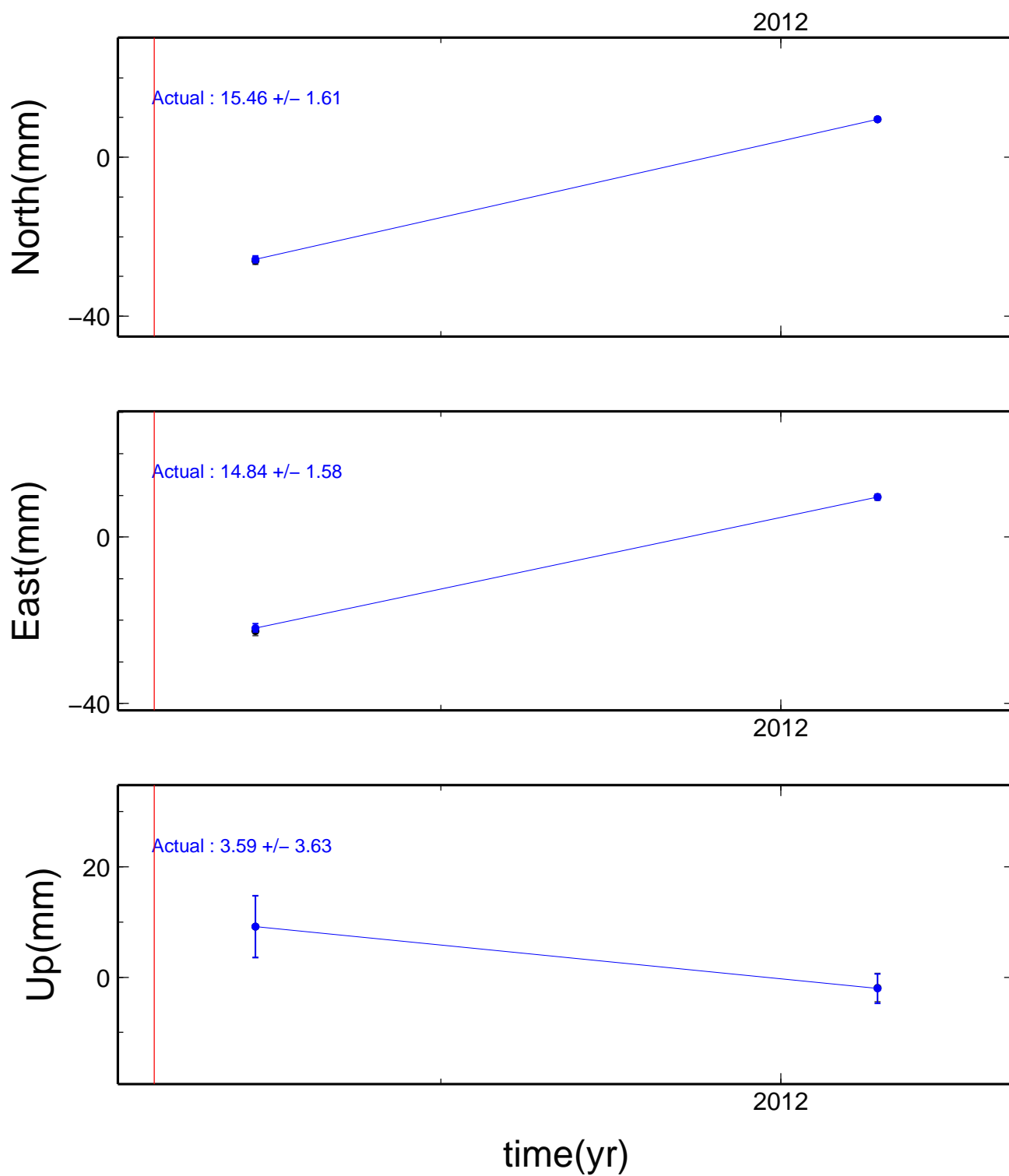


time(yr)

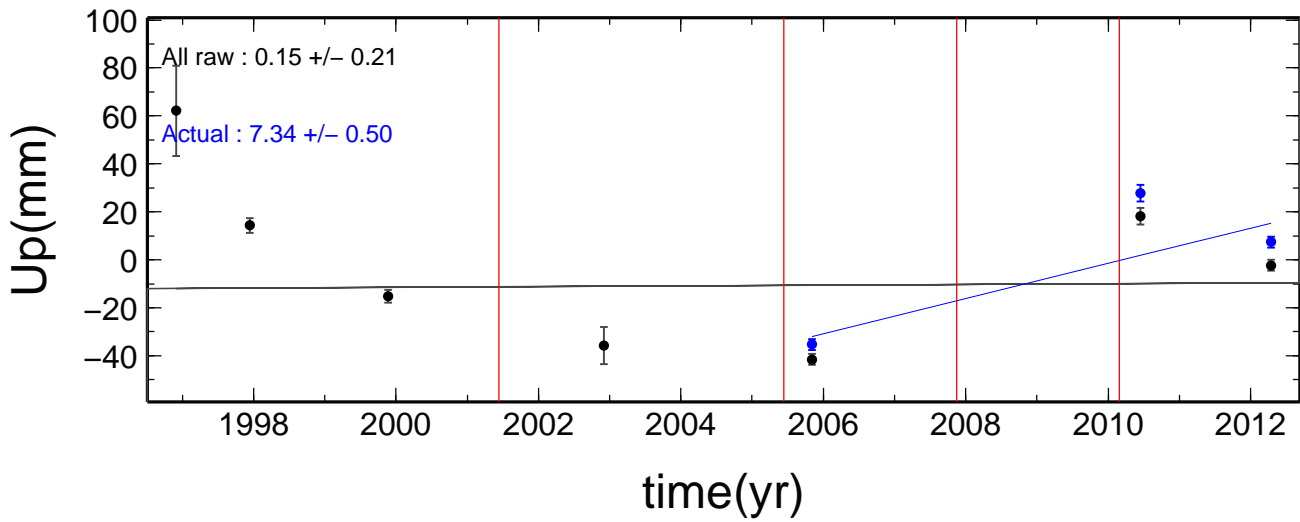
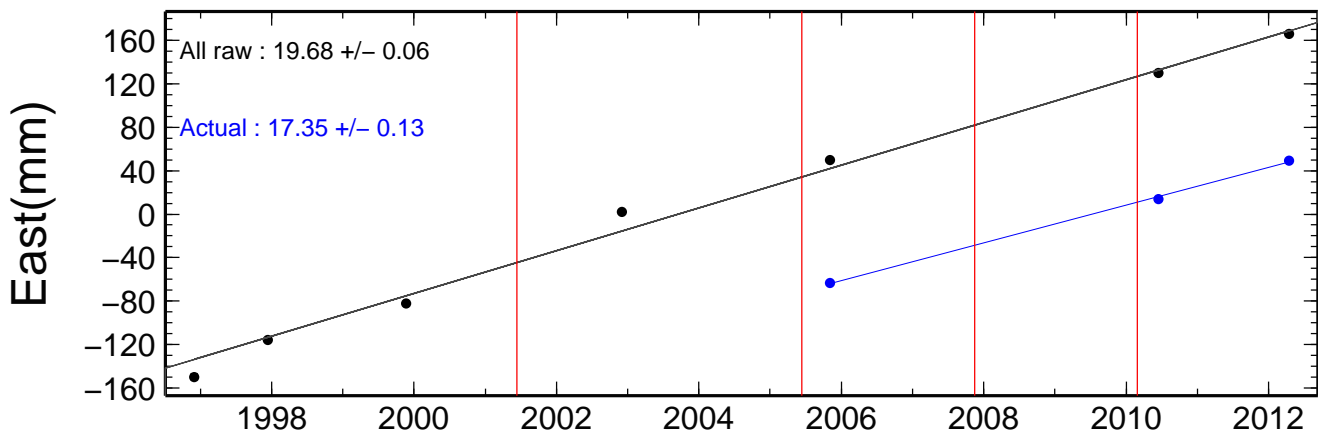
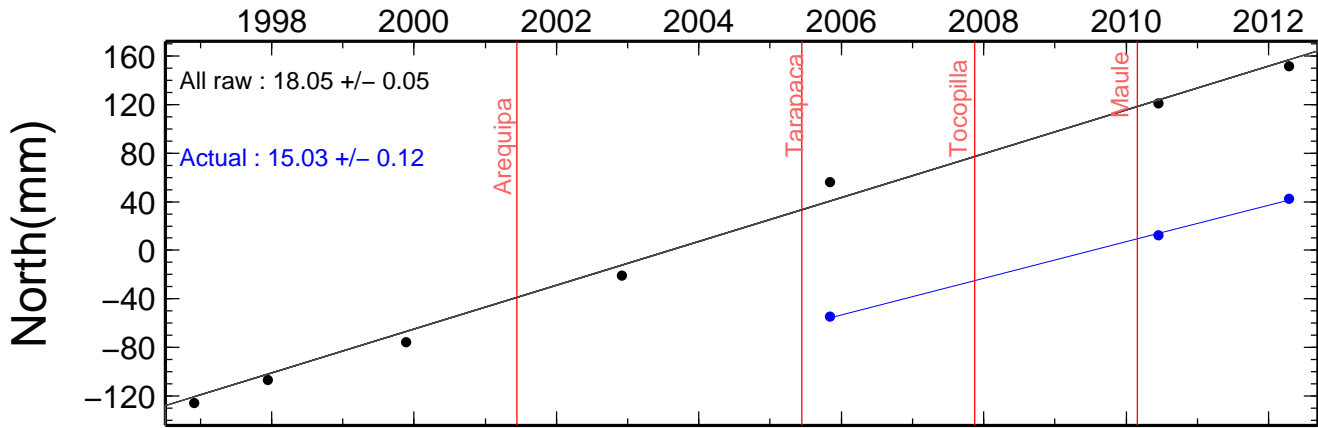
PI70



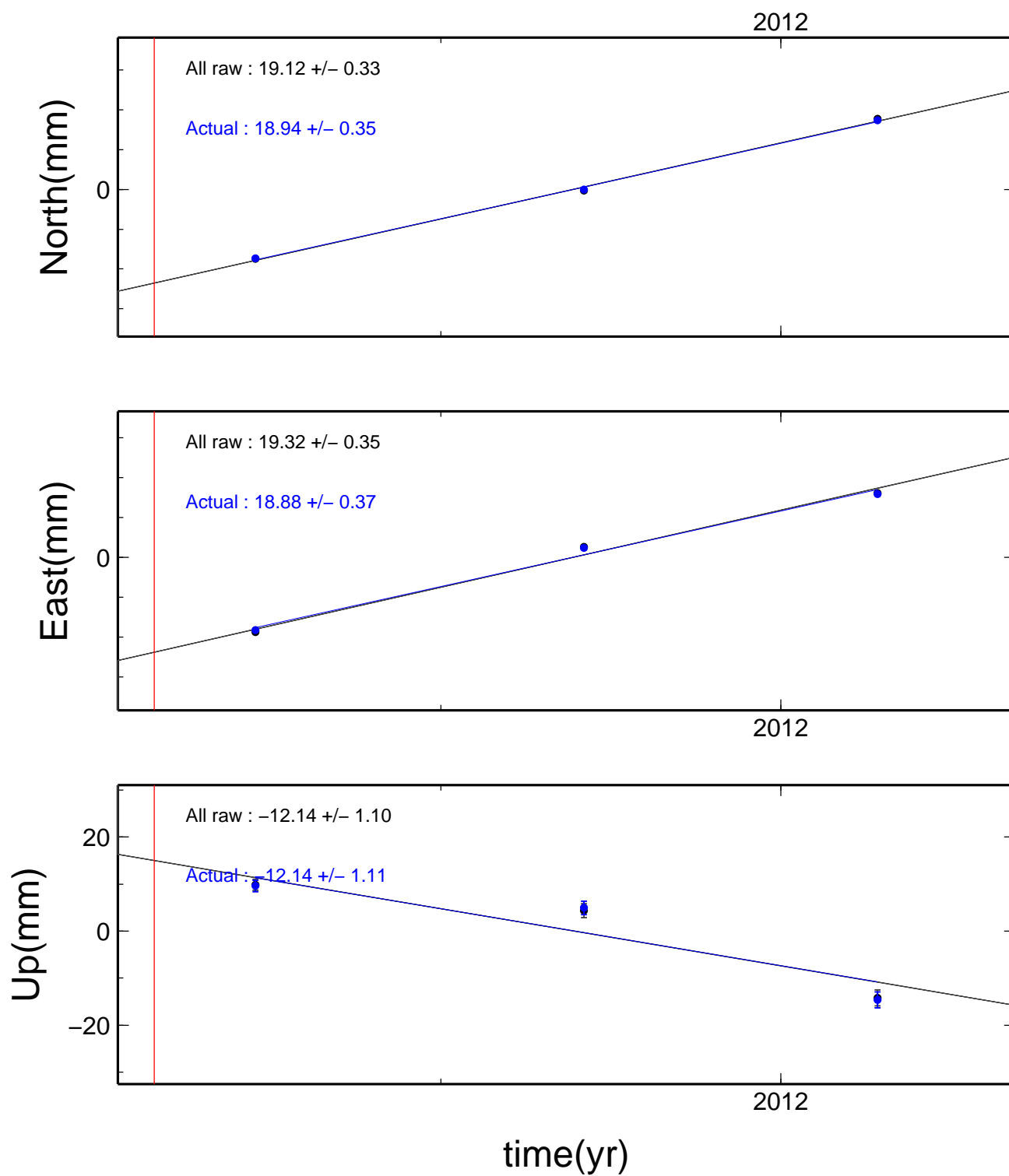
PI80



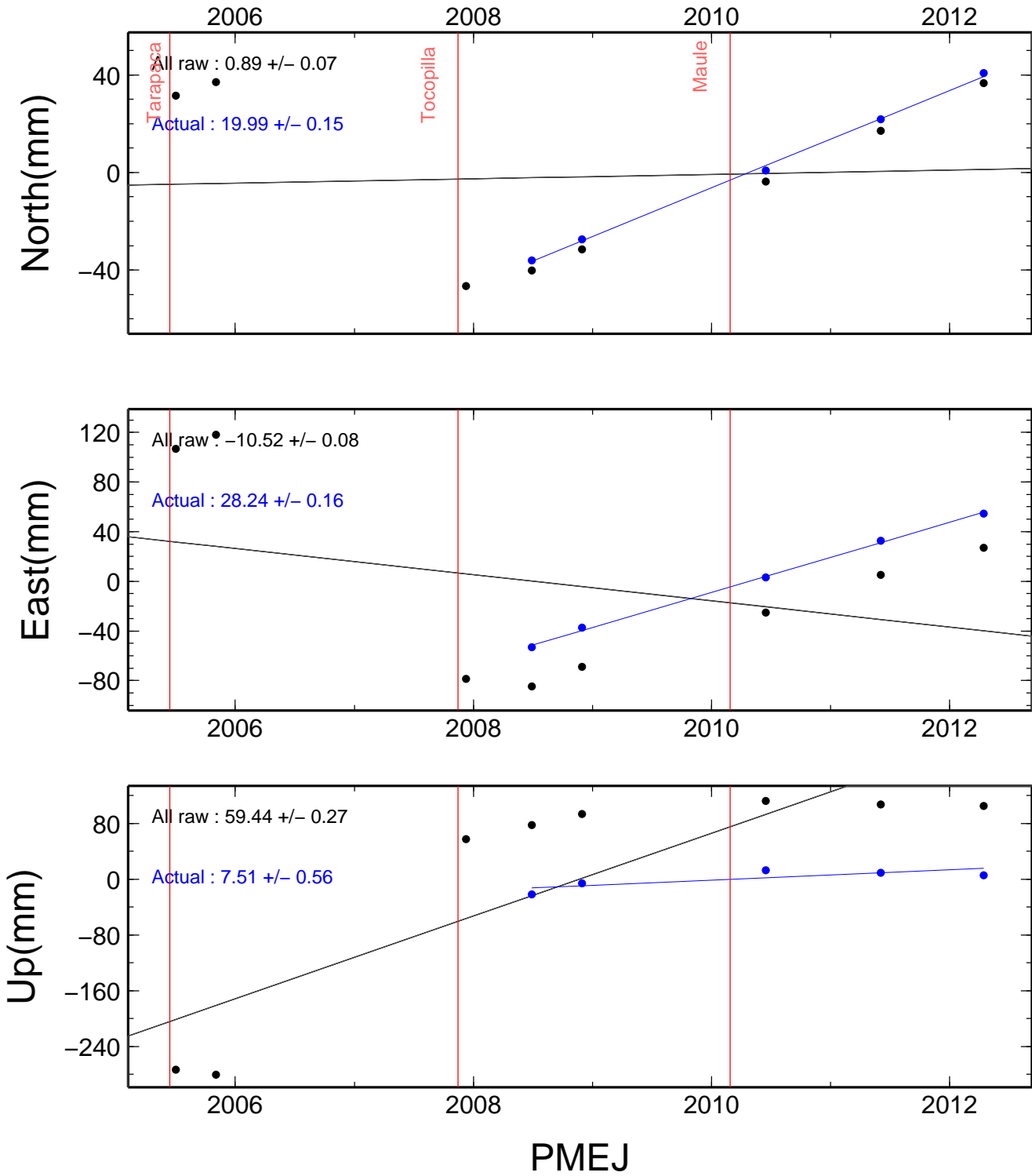
PICA



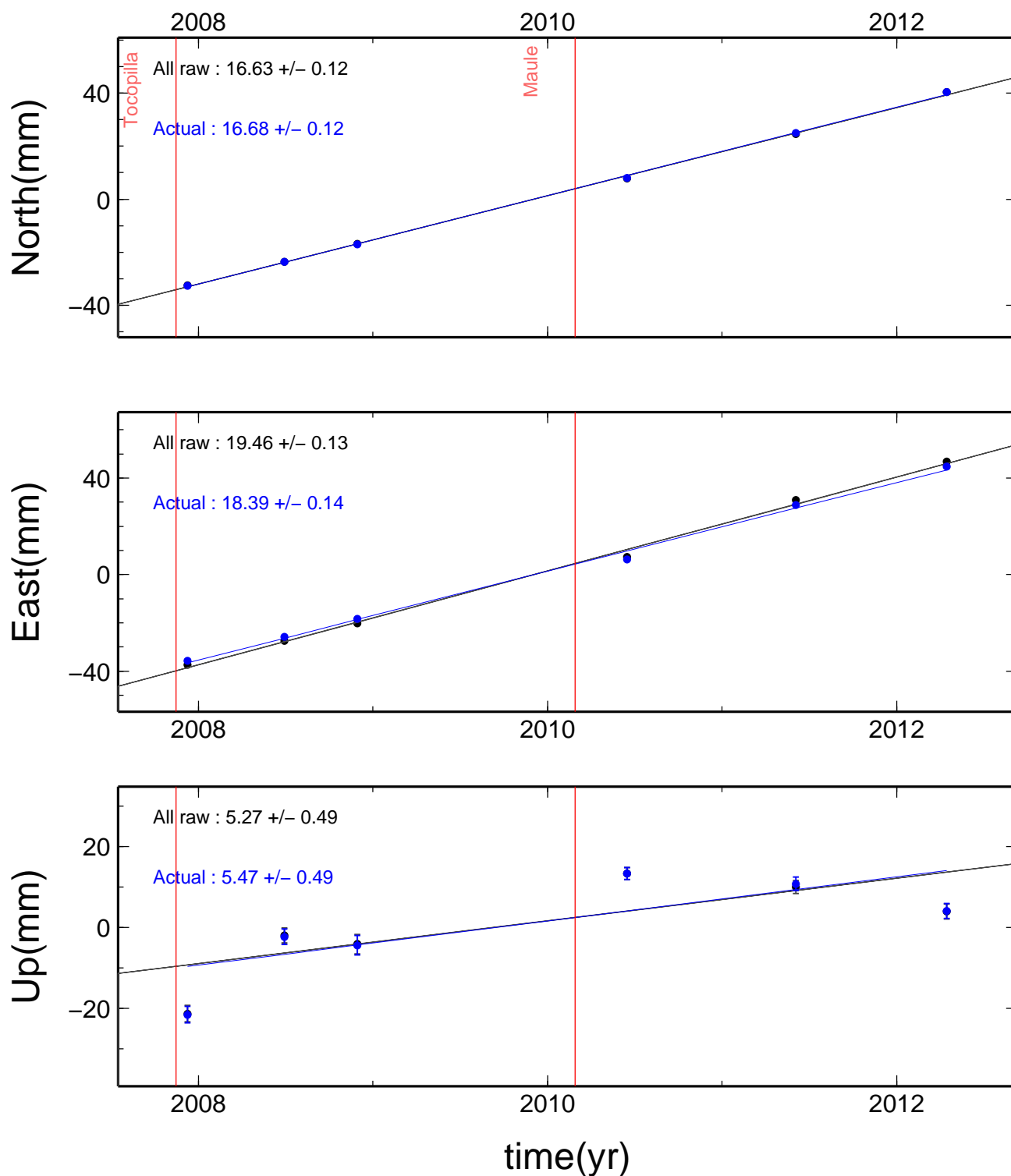
PICC



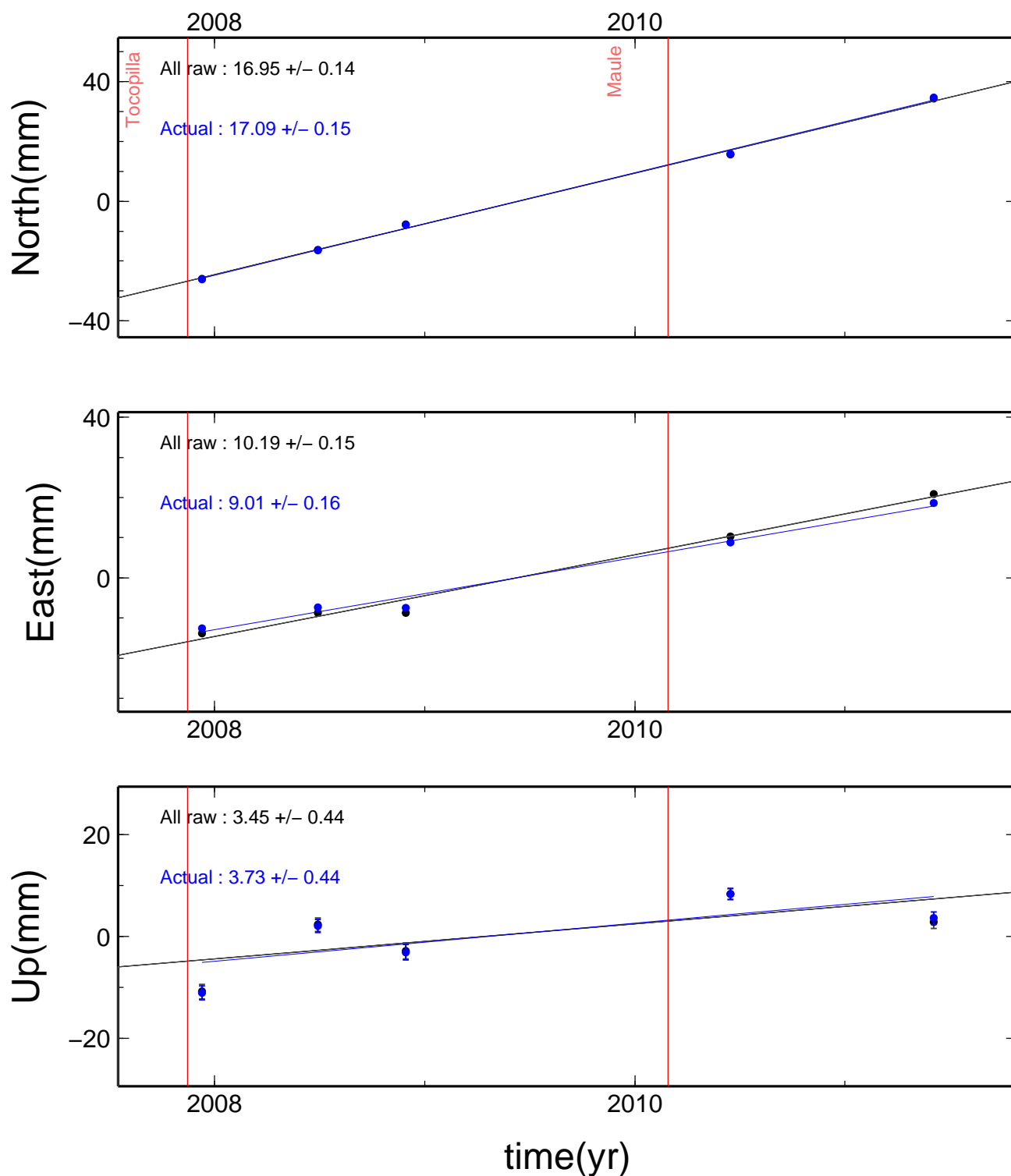
PMEJ



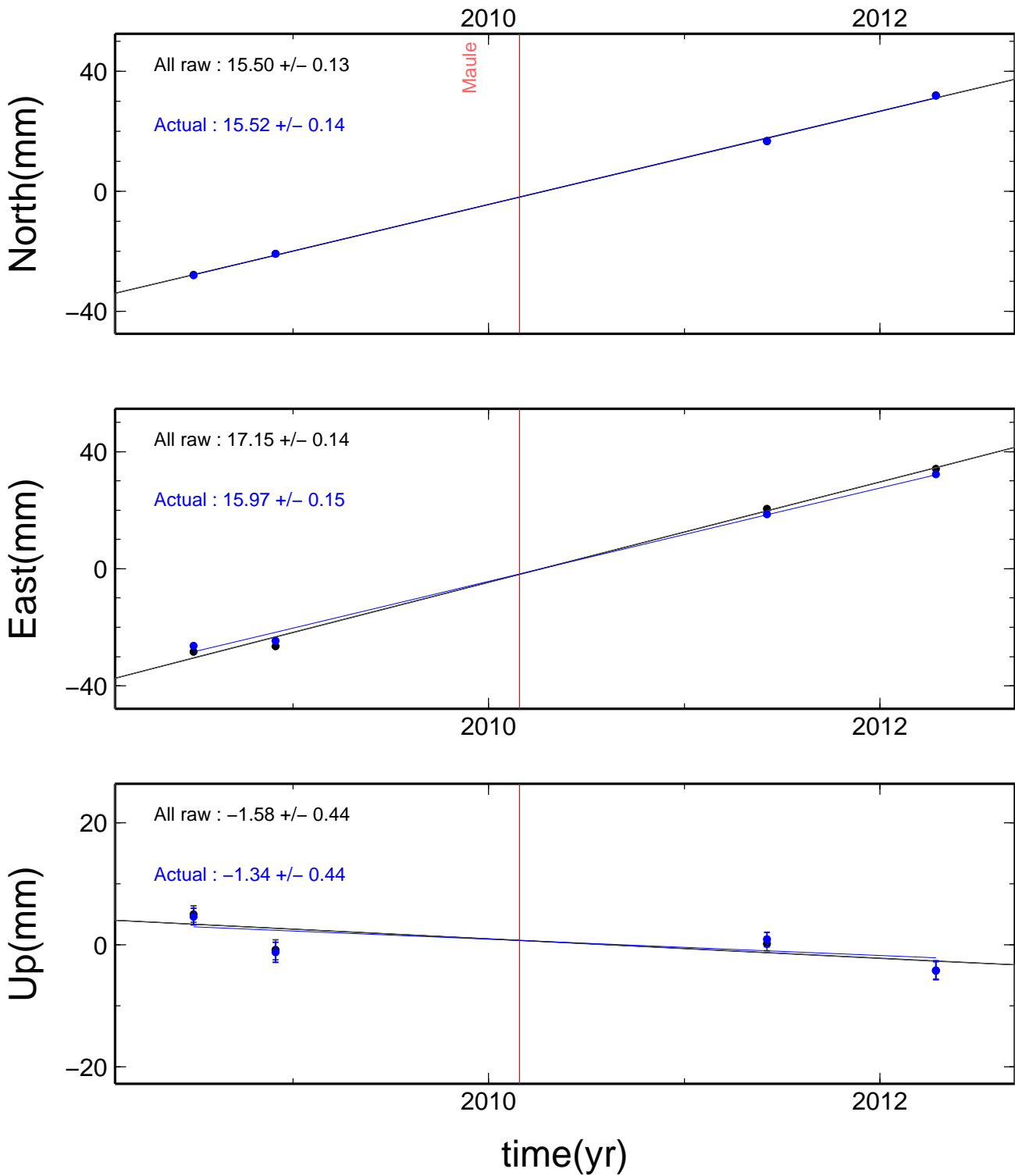
PSGA



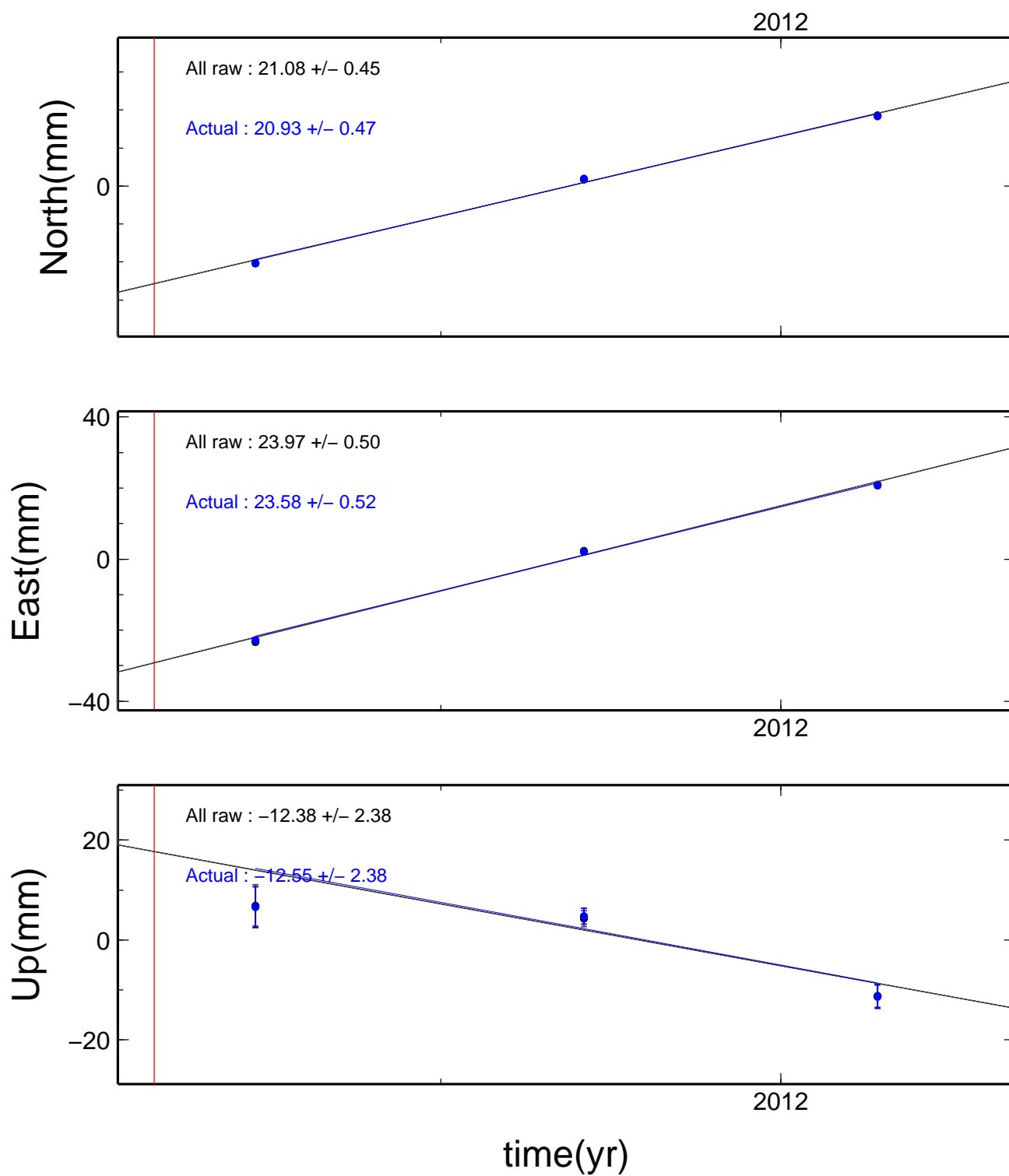
PTRE



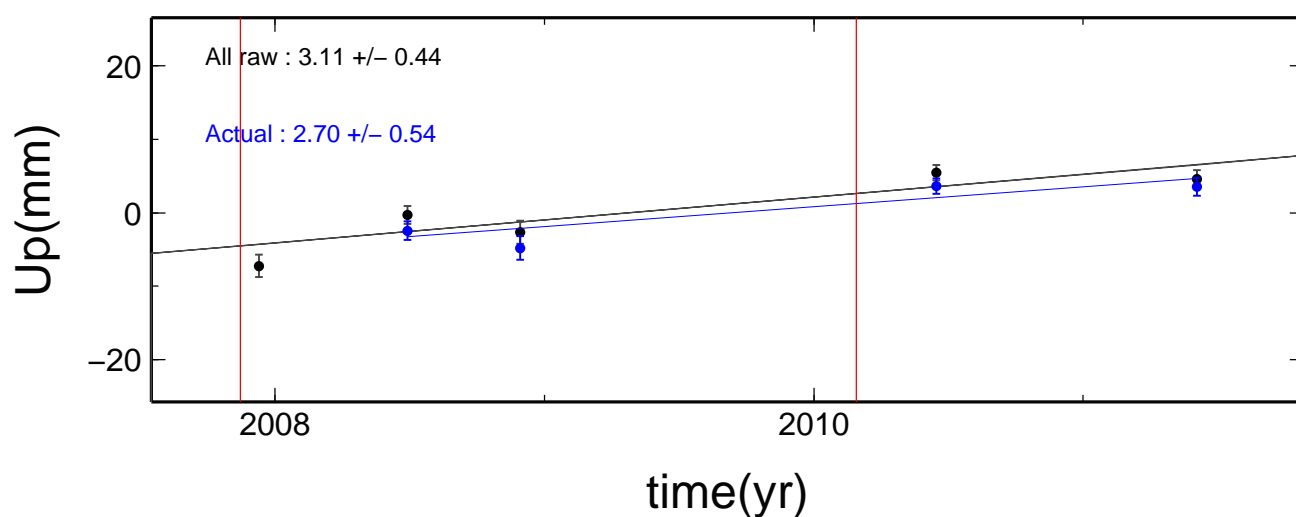
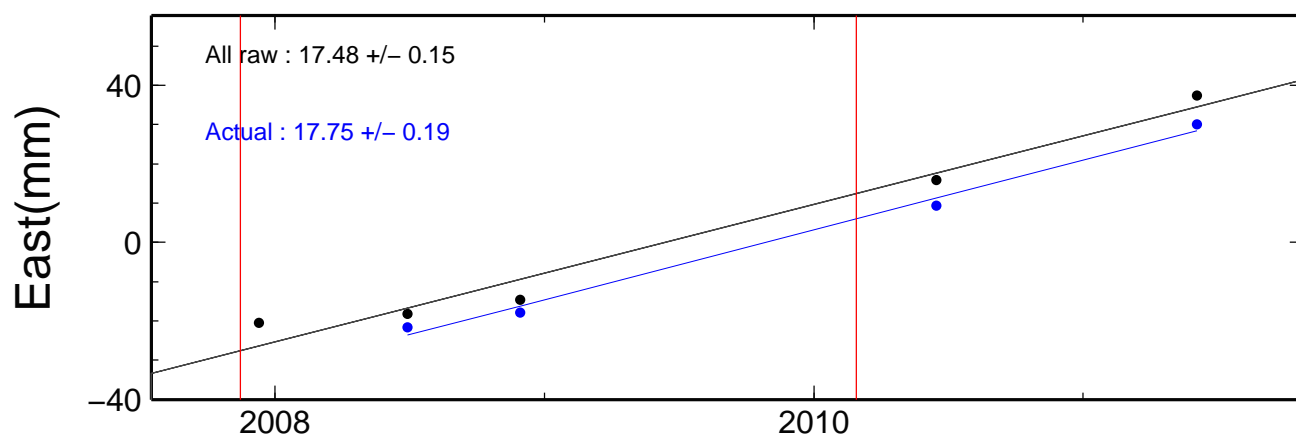
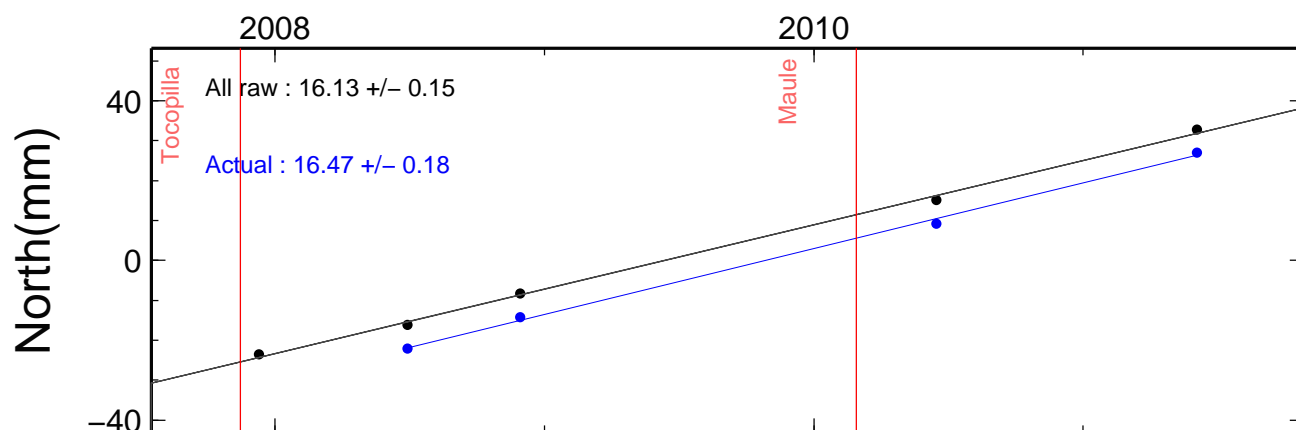
RADO



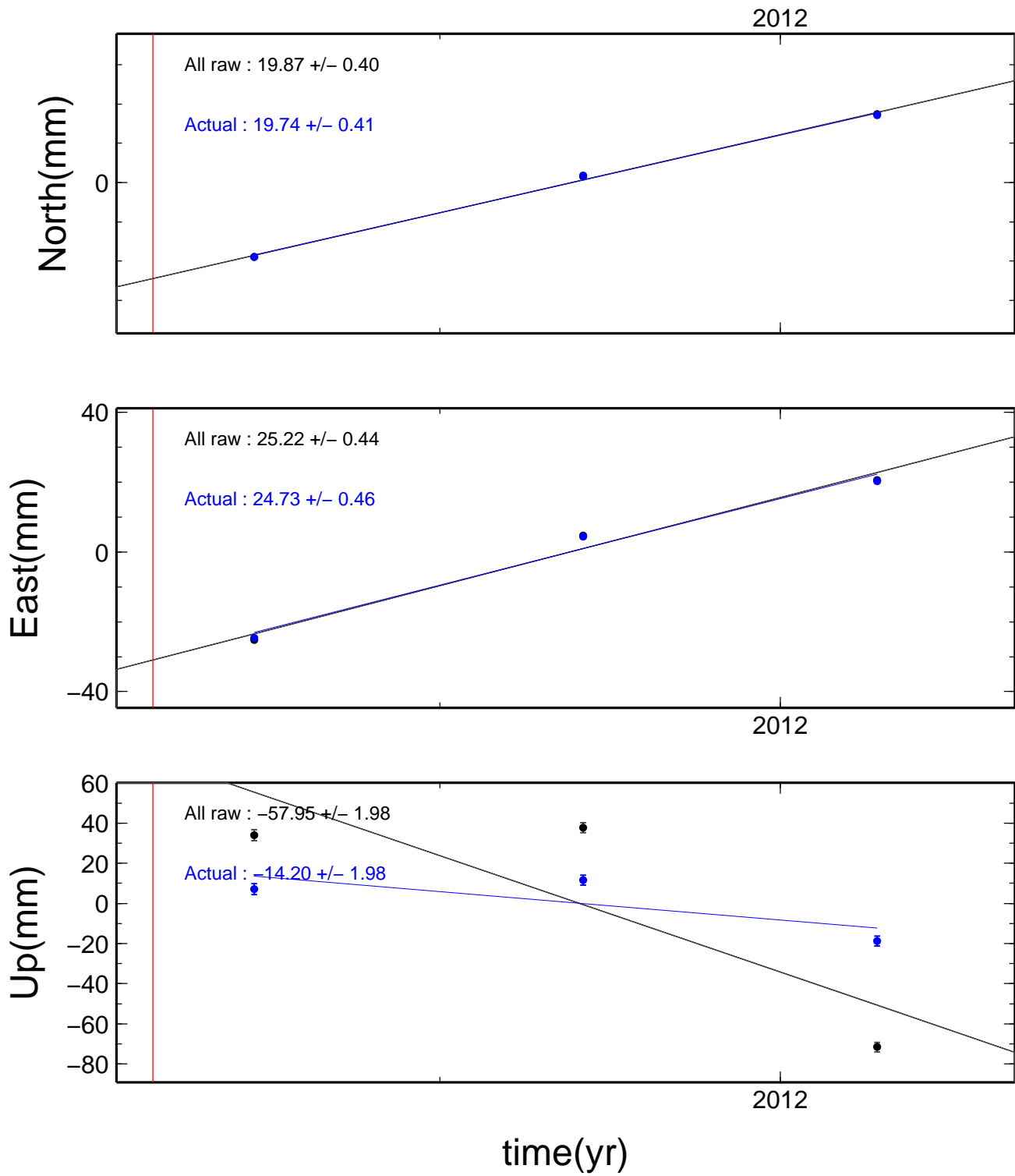
SMRD



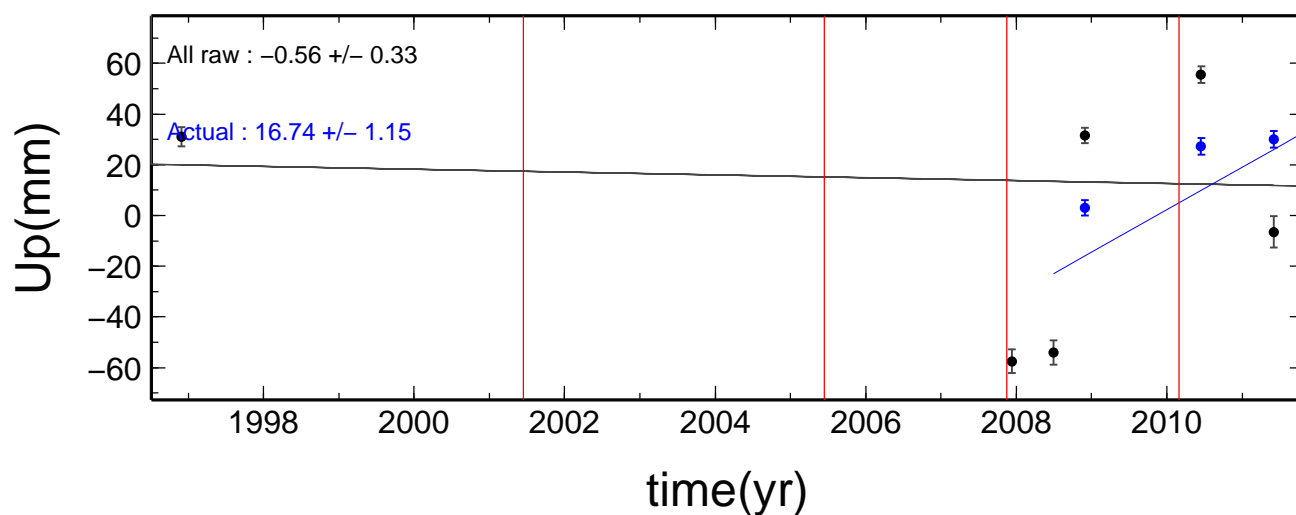
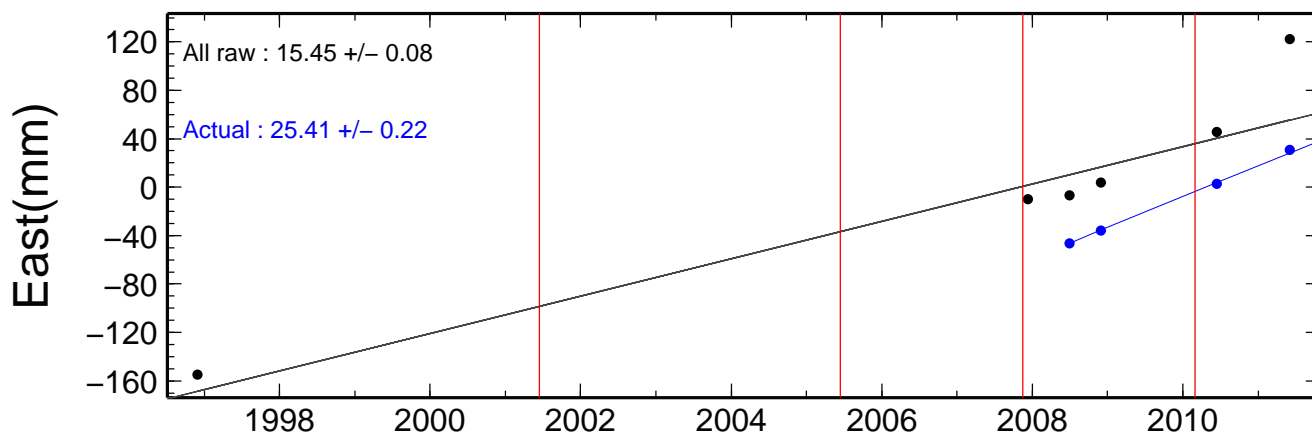
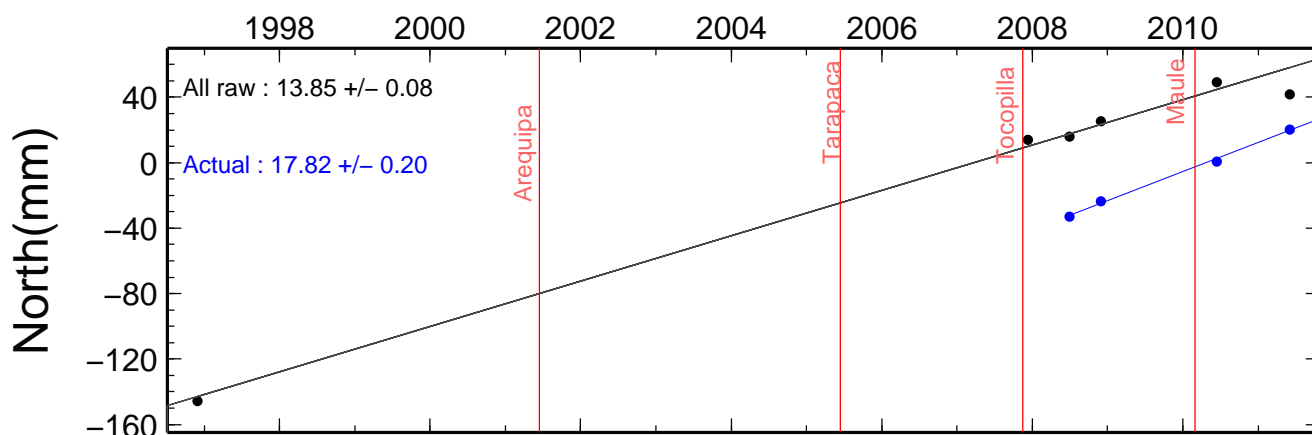
SRGD

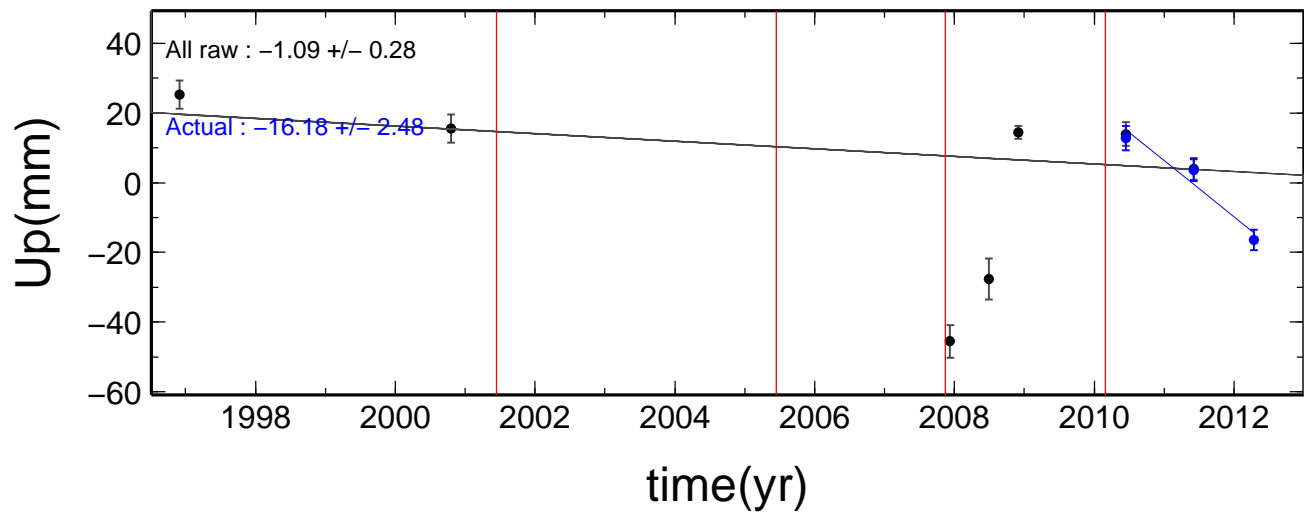
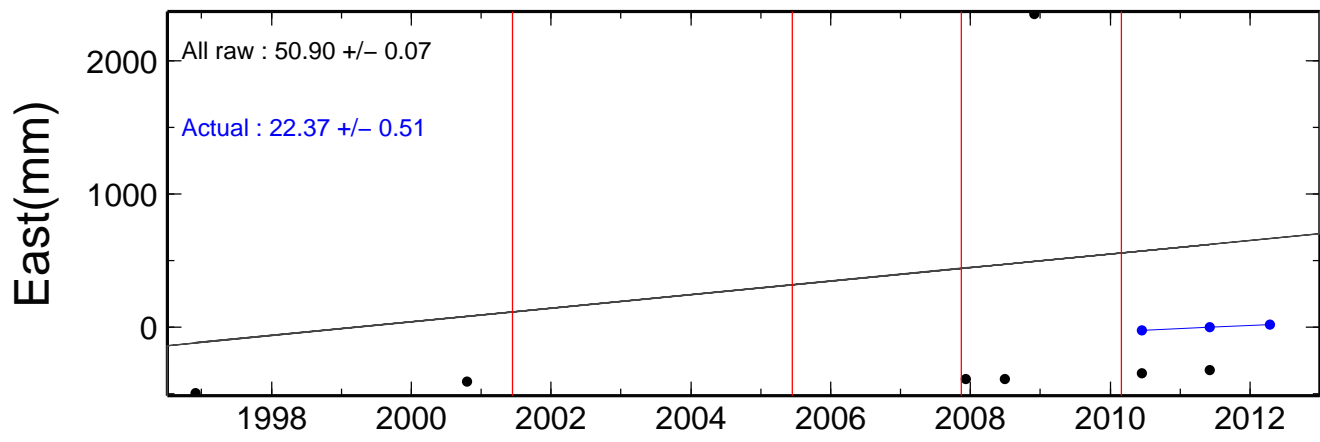
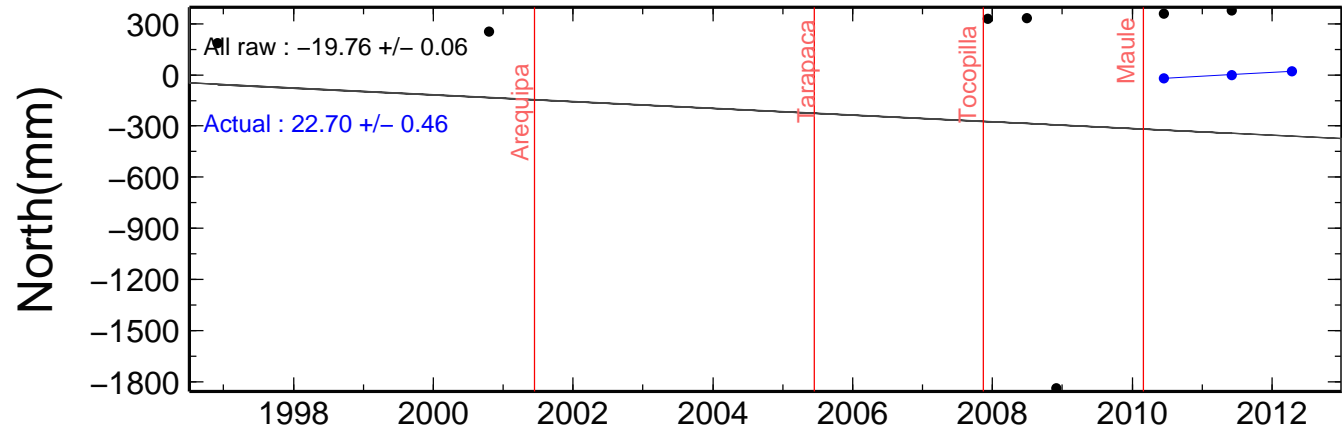


TO24

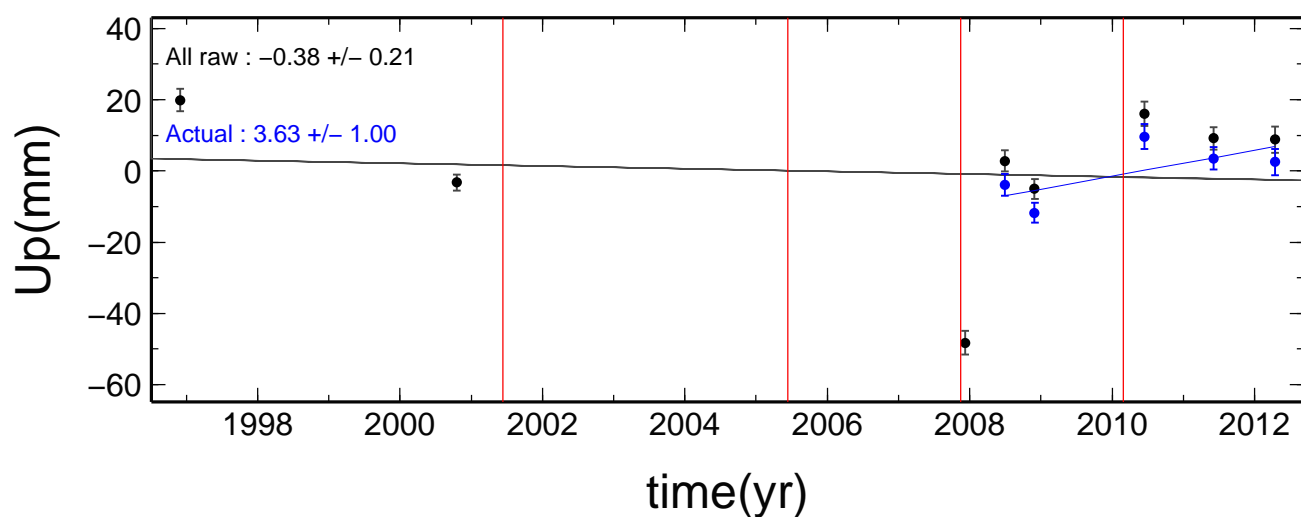
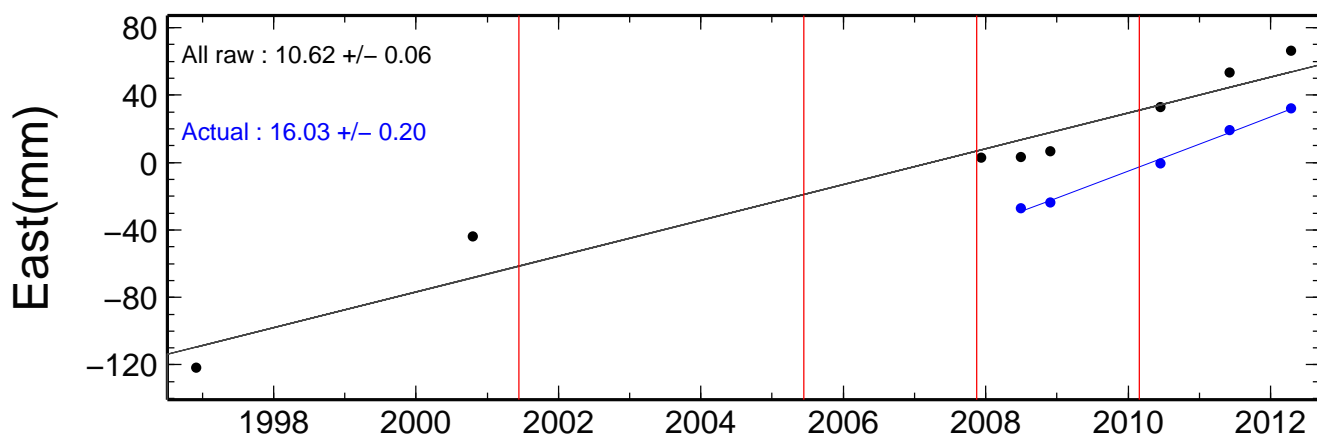
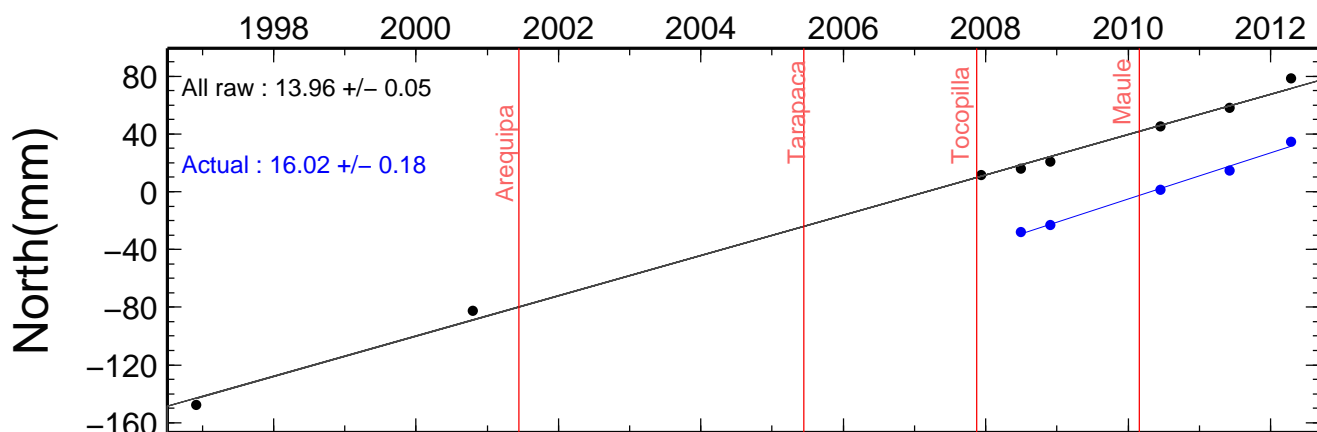


TO30

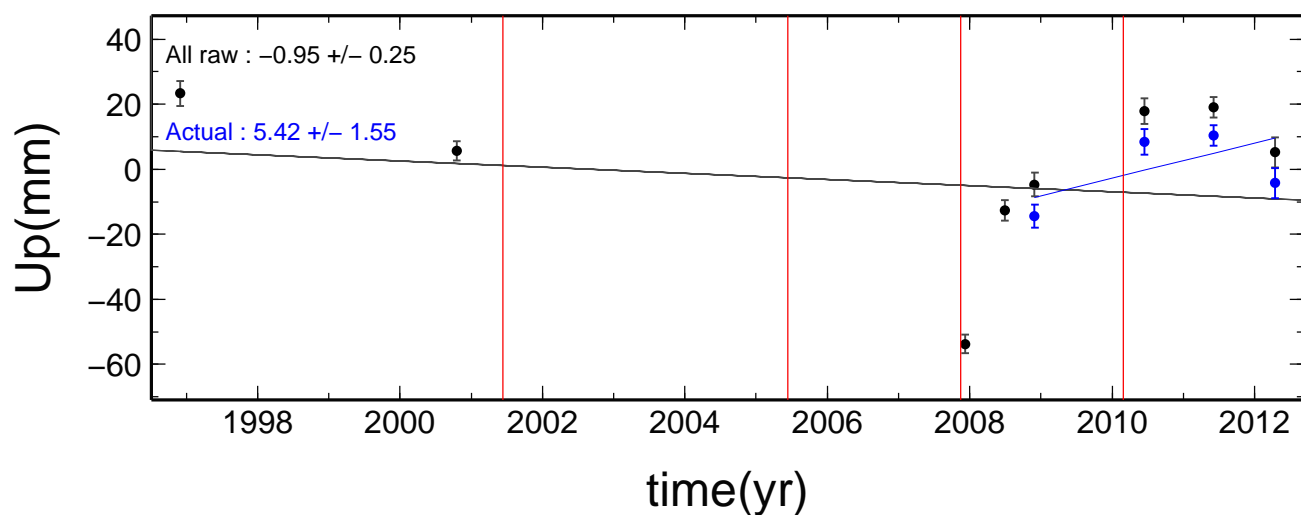
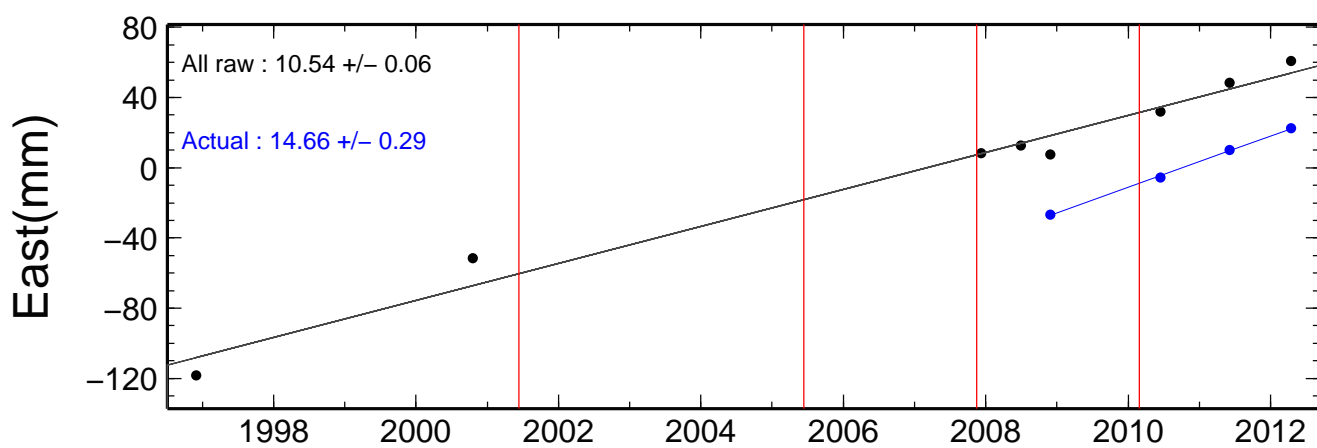
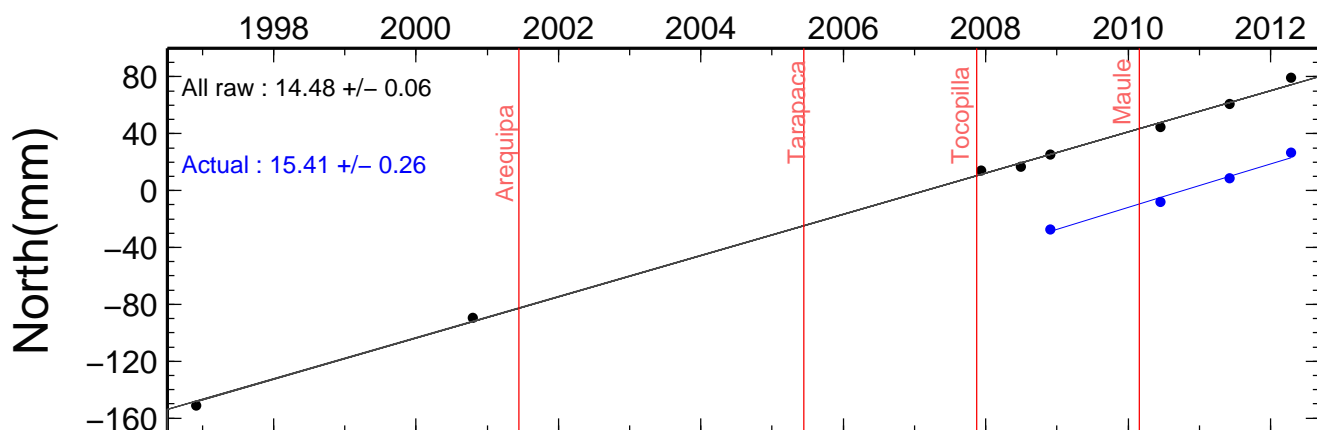




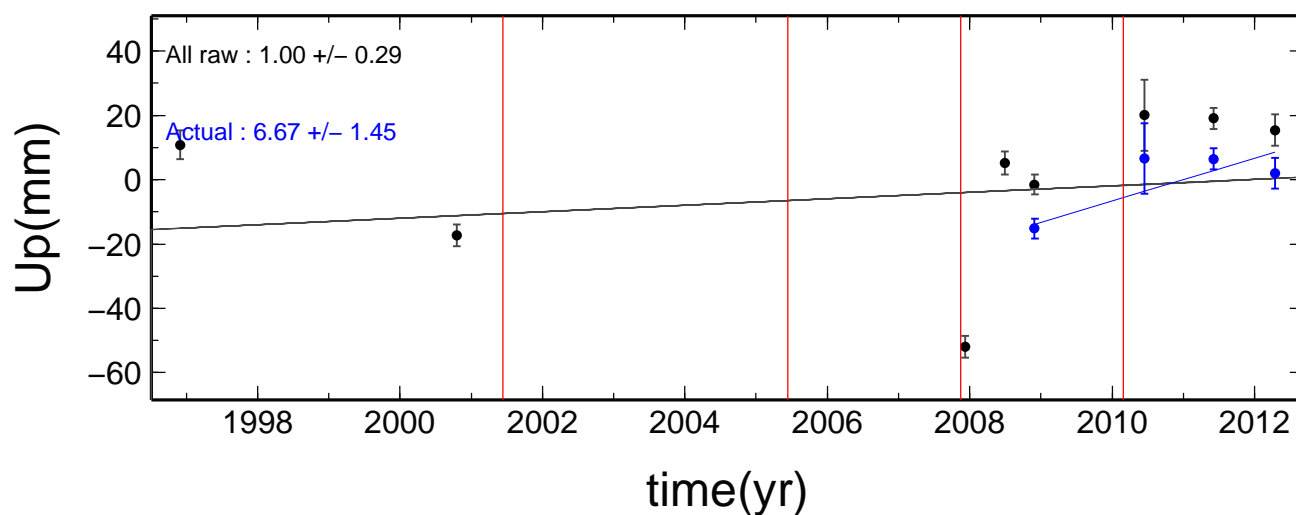
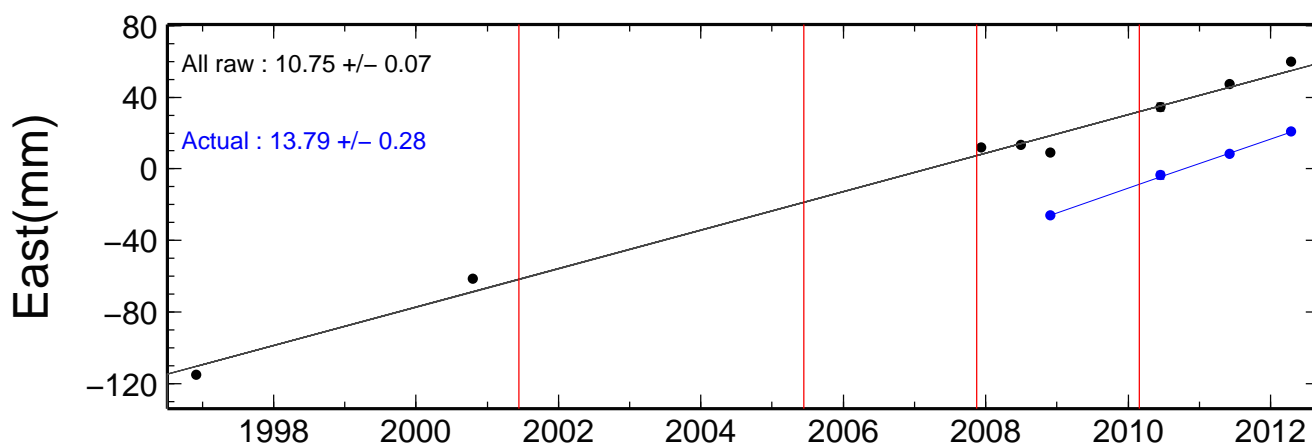
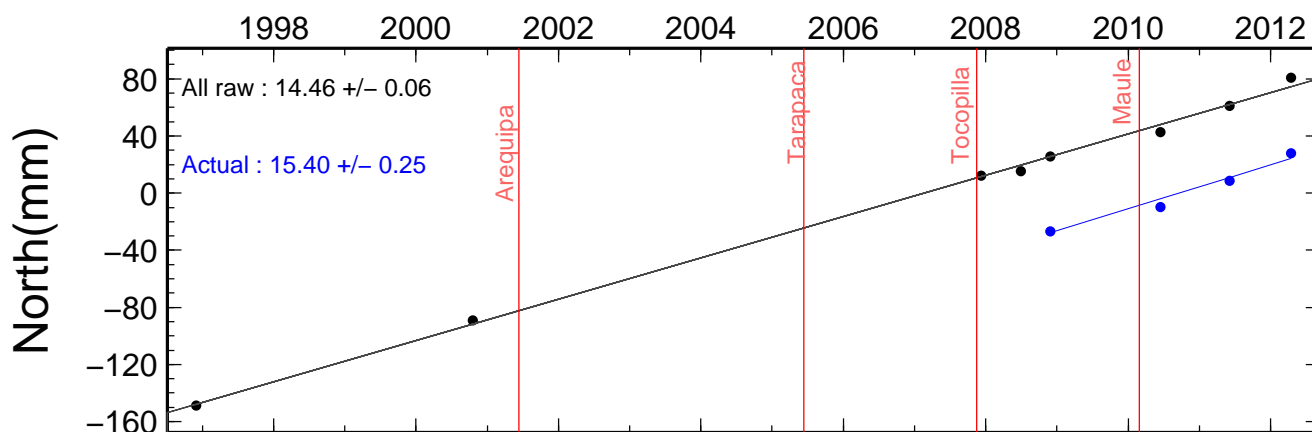
TO50



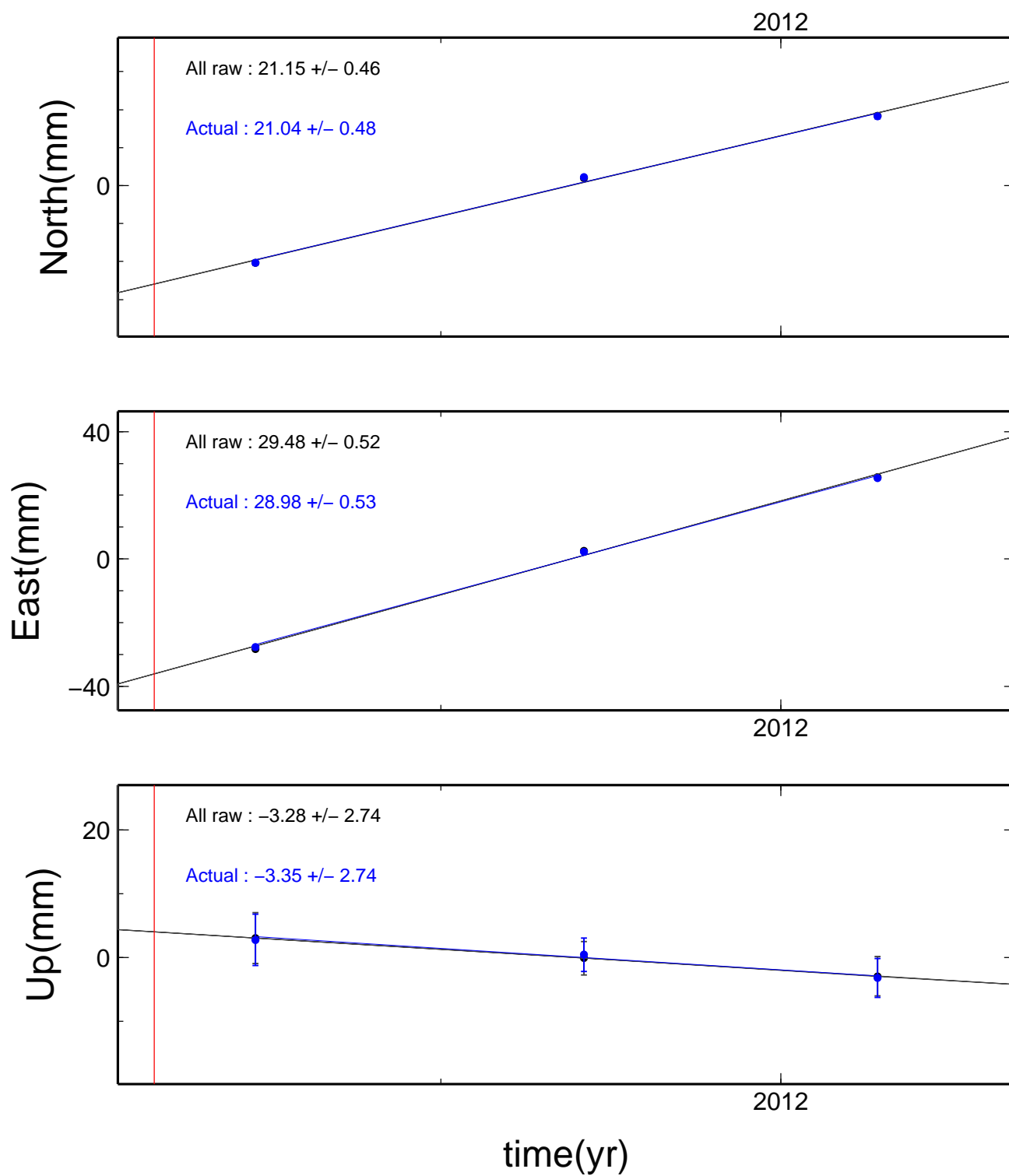
TO60



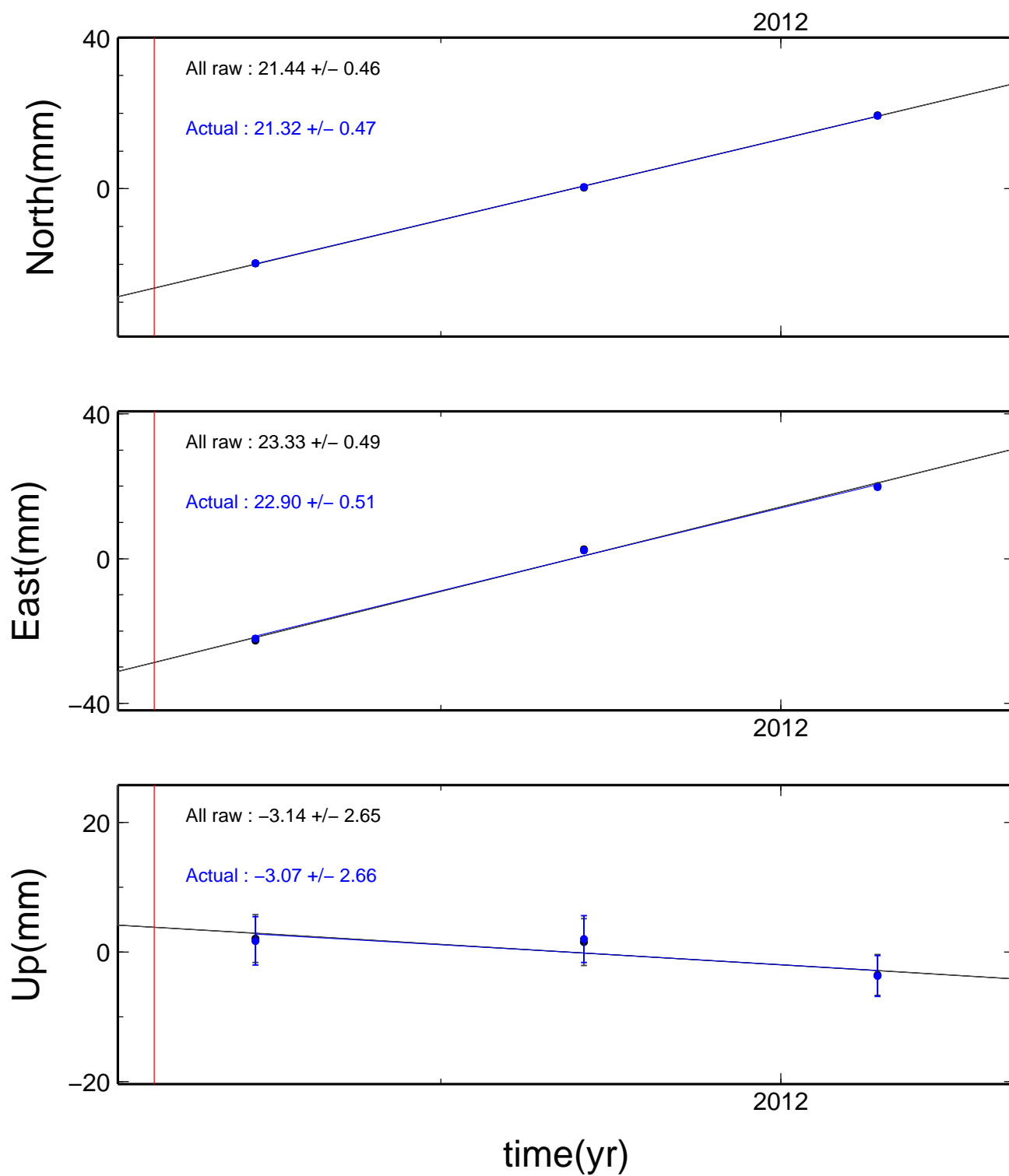
TO70



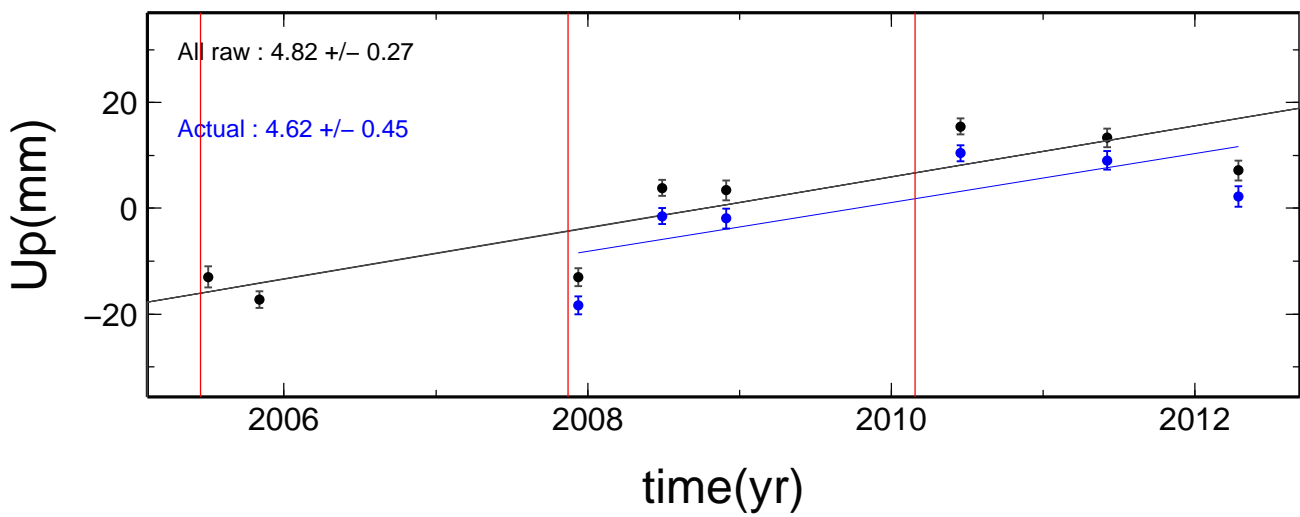
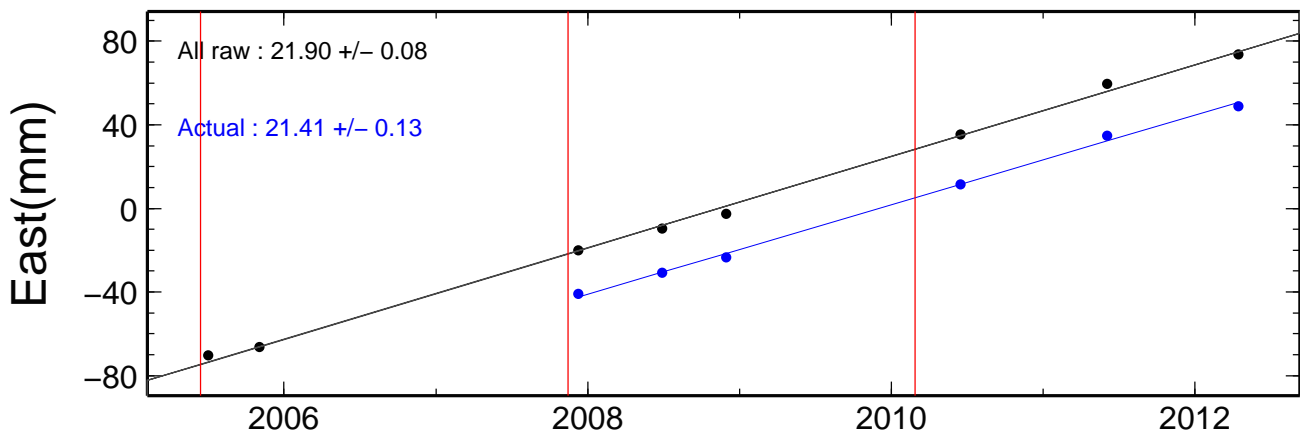
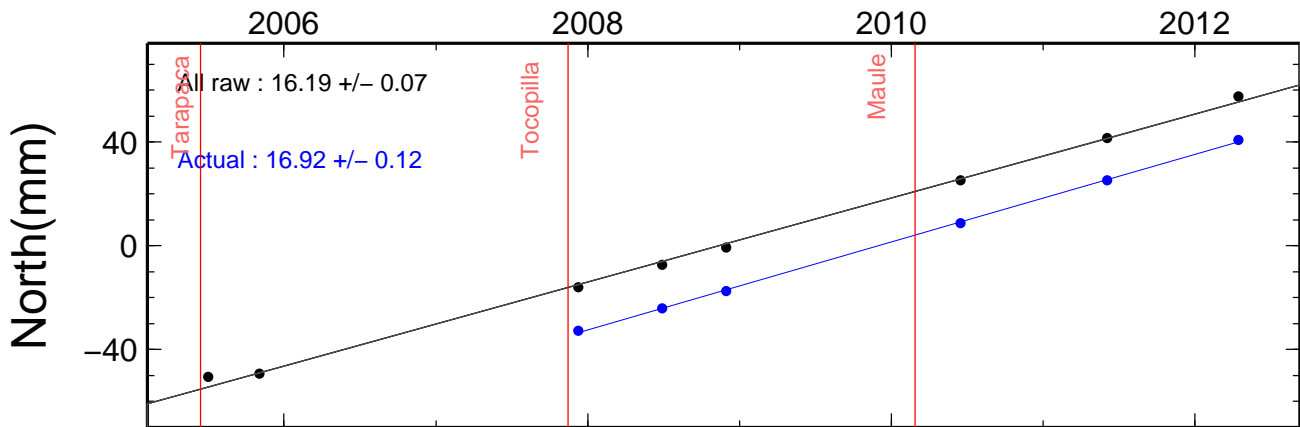
TOPI



TOSN

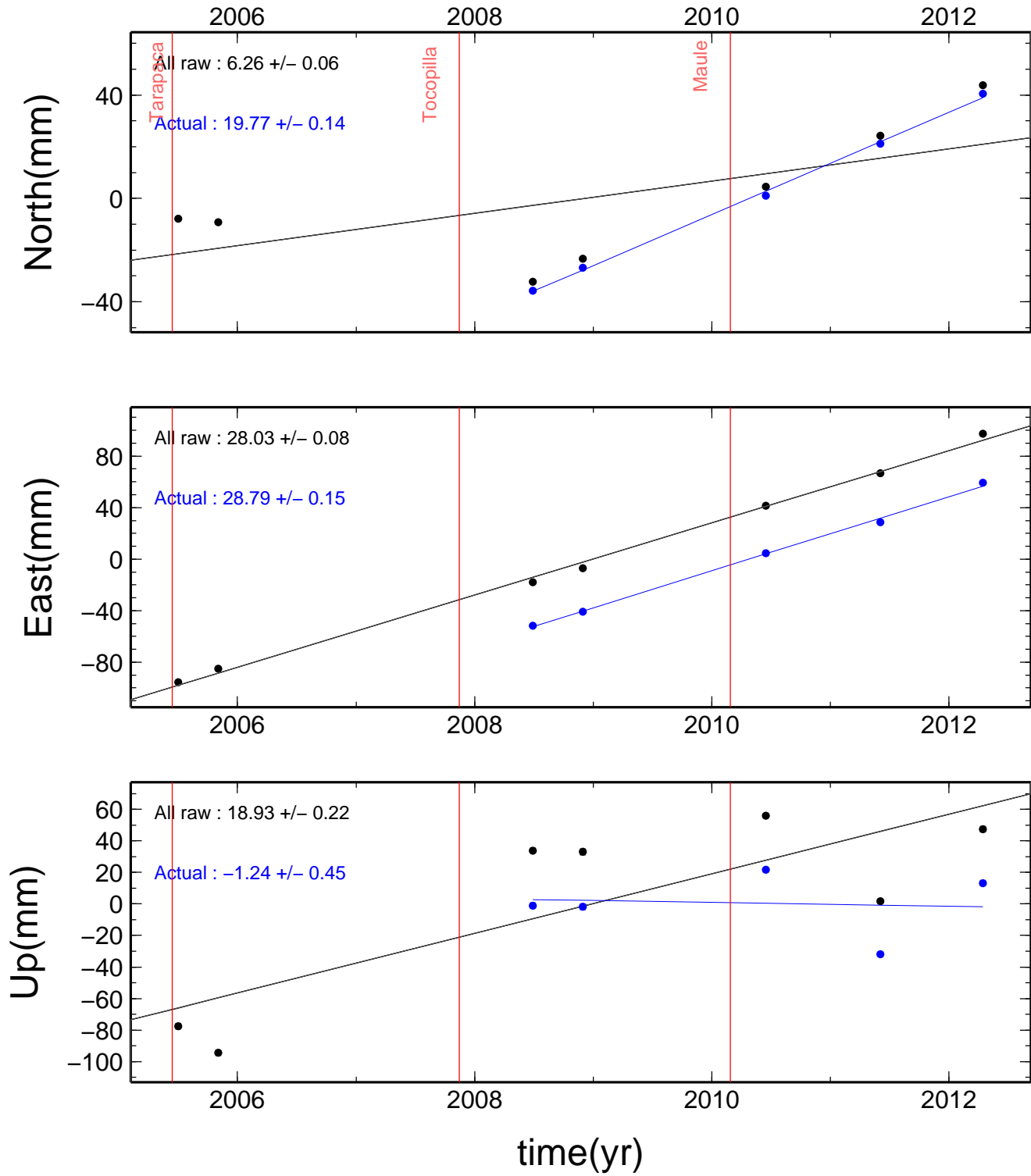


UAPE



time(yr)

UCNF



URCU

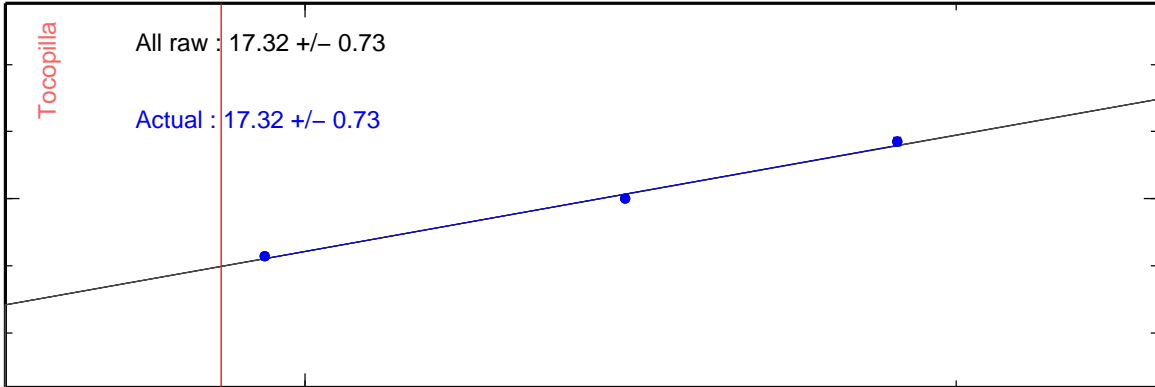
2008

Tocopilla

All raw : 17.32 +/- 0.73

Actual : 17.32 +/- 0.73

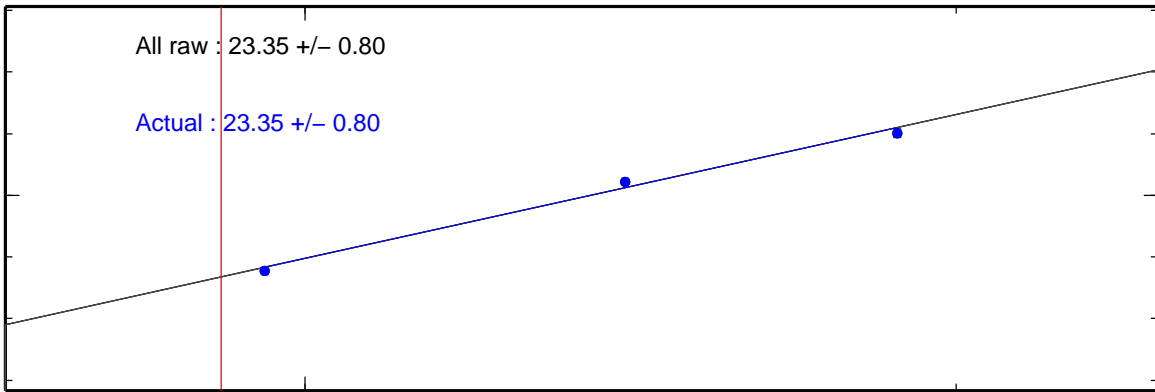
North(mm)



All raw : 23.35 +/- 0.80

Actual : 23.35 +/- 0.80

East(mm)

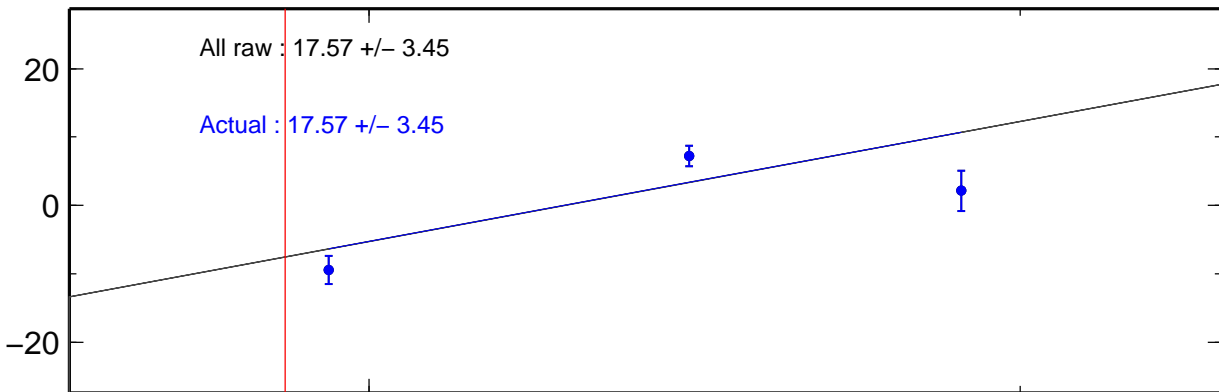


2008

All raw : 17.57 +/- 3.45

Actual : 17.57 +/- 3.45

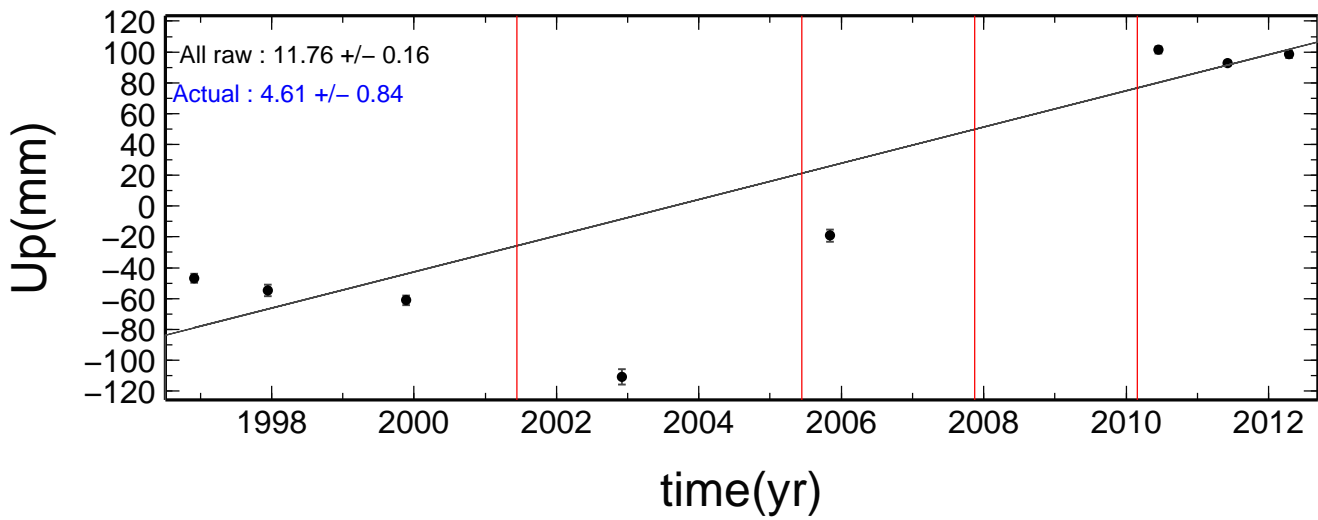
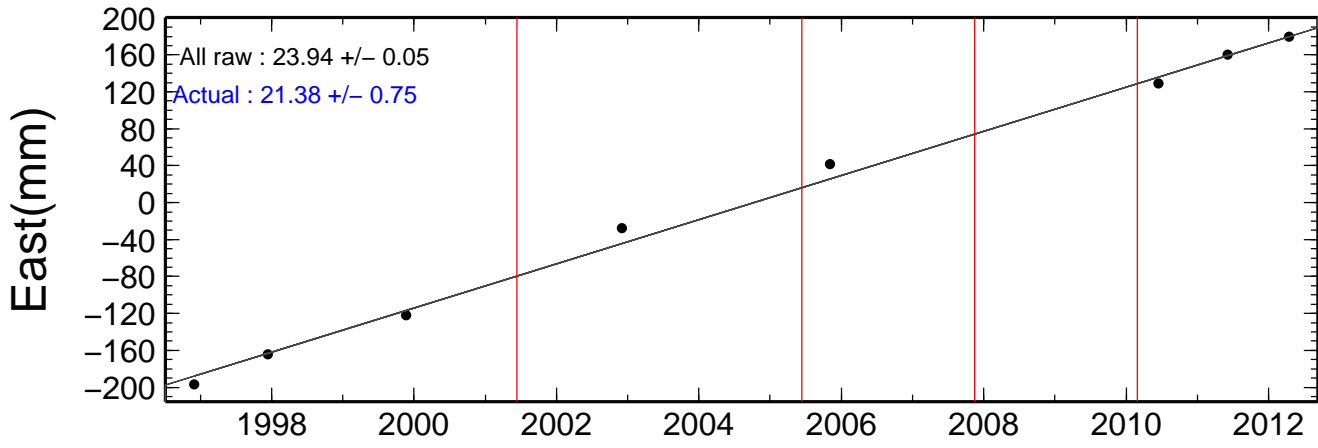
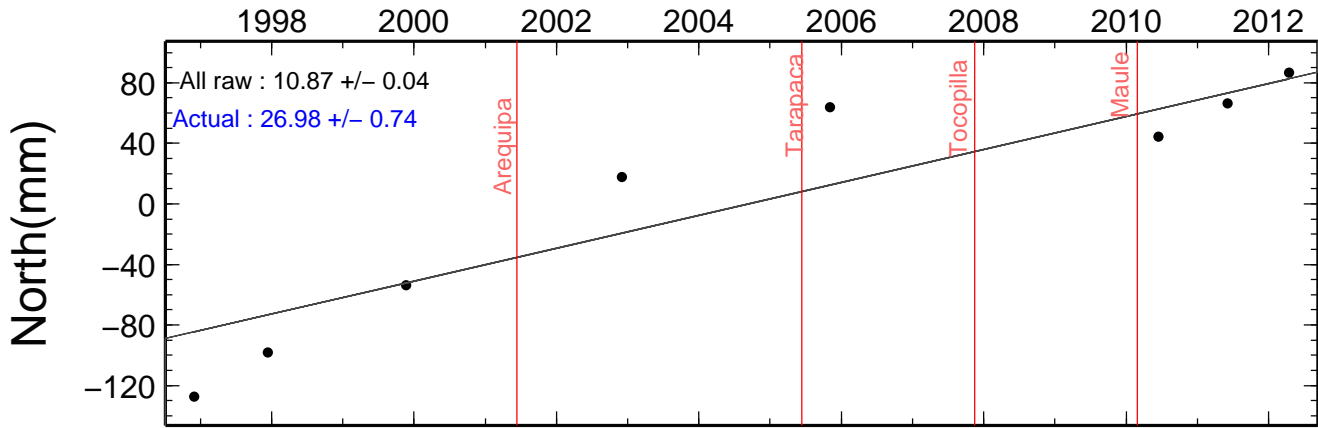
Up(mm)



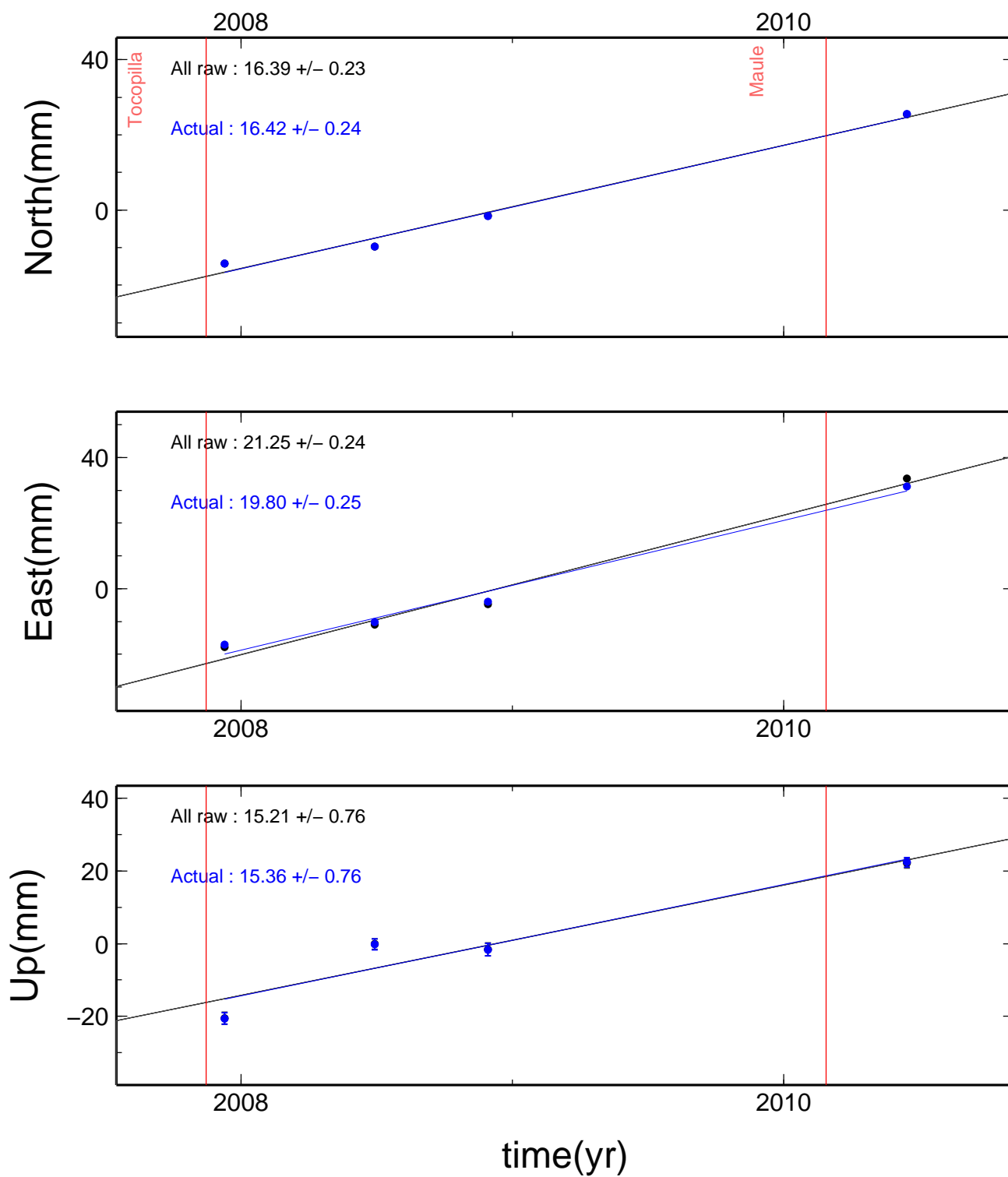
2008

time(yr)

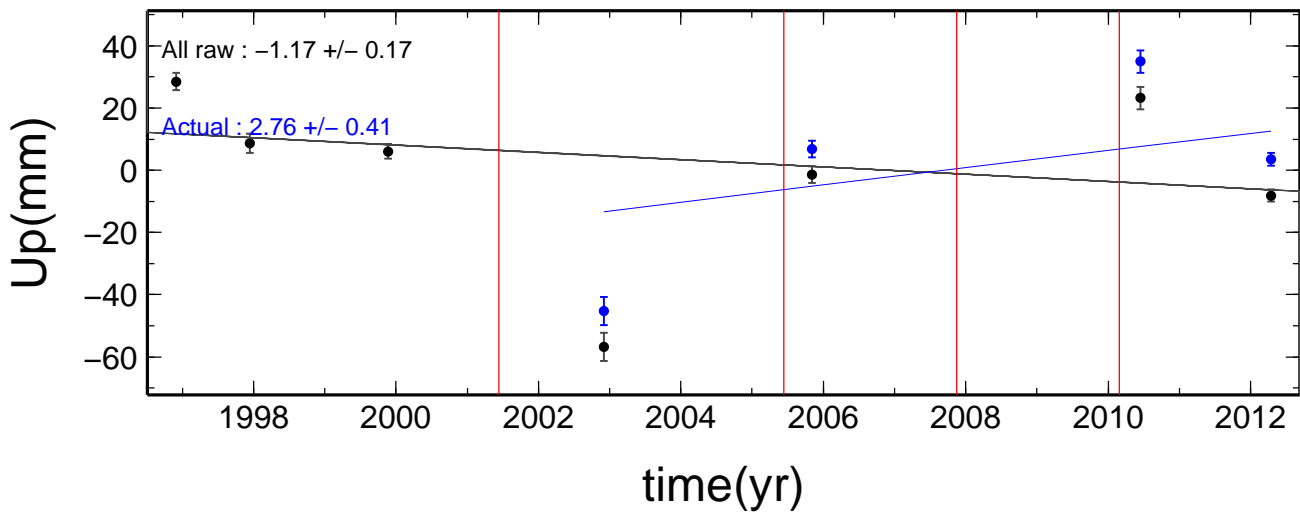
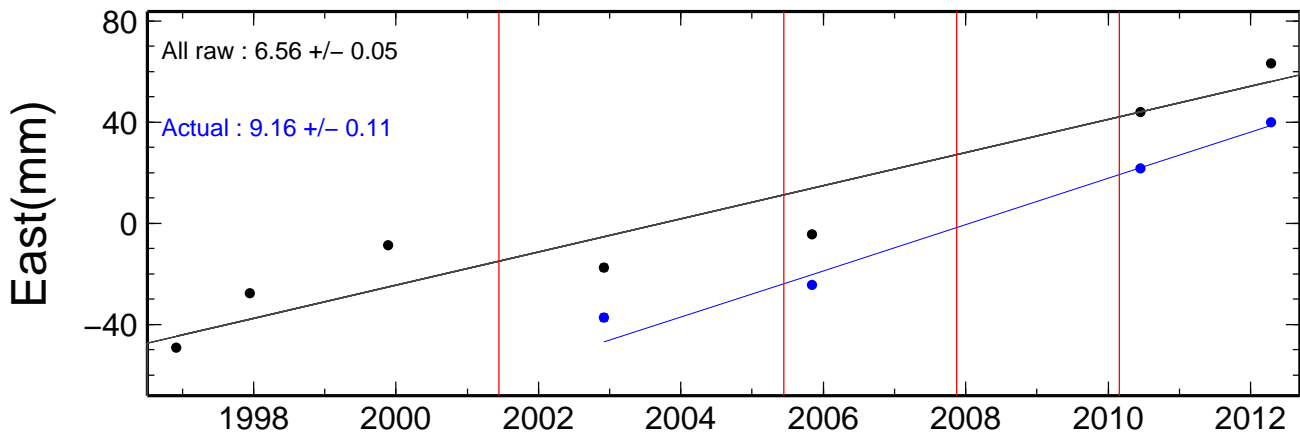
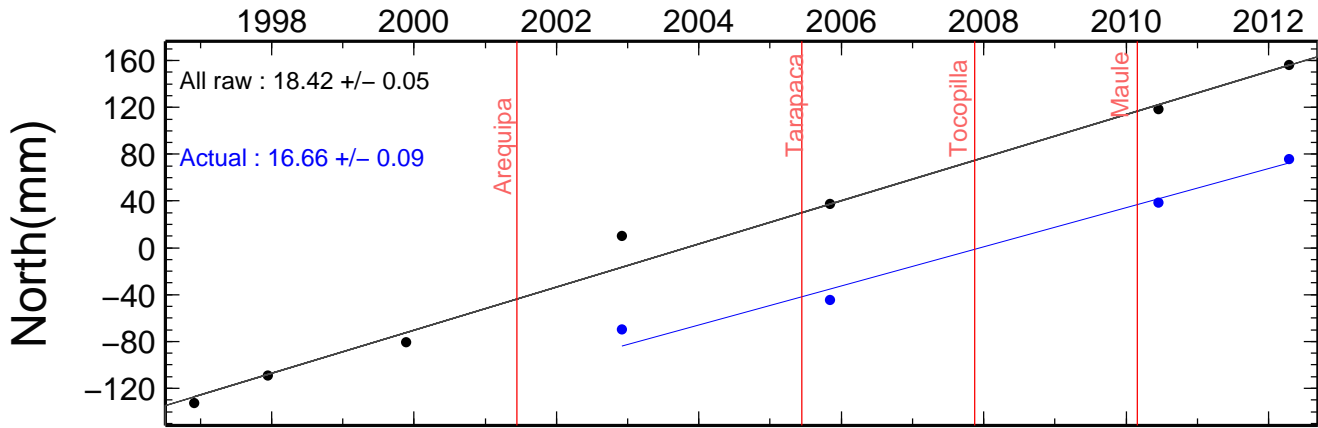
URIB



VLZL



ZAHU



GPS campaigns LIA

	96	97	99	00	02	04	05	06	07	08	09	10	11	12
AN00	X	-	-	X	-	-	-	-	-	X	-	-	-	-
ANTF	-	X	X	-	-	-	-	-	-	-	-	X	X	X
AR20	X	-	-	-	-	-	-	-	-	-	-	X	-	X
AR30	X	-	-	-	-	-	-	-	-	-	-	X	-	X
AR40	-	-	-	-	-	-	-	-	-	-	-	X	-	X
AR50	X	-	-	X	-	-	-	-	-	-	-	X	-	X
AR60	-	-	-	-	-	-	-	-	-	-	-	X	-	X
ATJN	-	-	-	-	-	-	-	-	X	X	-	X	X	X
BAN0	X	-	-	-	-	-	-	-	X	X	-	X	X	X
BAQ0	X	X	X	X	-	-	-	-	X	X	-	X	X	X
CA10	-	-	-	-	-	-	-	-	-	-	-	X	-	X
CA20	-	-	-	-	-	-	-	-	-	-	-	X	-	X
CALC	X	X	X	-	X	-	X	-	-	-	-	X	X	-
CAMA	X	X	X	-	X	-	X	-	-	-	-	X	-	X
CBAA	-	-	-	-	-	-	-	-	X	X	-	X	X	-
CDLC	-	-	-	-	-	-	-	-	X	X	-	X	X	-
CERZ	-	-	-	-	-	-	-	-	-	-	-	X	X	X
CHA0	X	-	-	X	-	-	-	-	X	X	-	X	X	X
CLPL	-	-	-	-	-	-	-	-	-	-	-	X	X	X
CO20	-	-	-	-	-	-	-	-	-	-	-	X	-	X
CO40	X	-	-	-	-	-	X	-	-	-	-	X	-	X
CO50	X	-	-	X	-	-	X	-	X	X	-	X	-	X
CO60	X	-	-	X	-	-	X	-	X	X	-	-	-	X
COLC	-	-	-	-	-	-	-	-	X	X	-	X	-	X
COME	X	X	X	-	X	-	-	-	-	-	-	X	-	X
CTLR	-	-	-	-	-	-	-	-	X	X	-	X	X	-
DO10	X	-	-	-	-	-	-	-	X	X	-	X	X	-
DO20	X	-	-	X	-	-	-	-	X	X	-	X	X	-
DO30	X	-	-	X	-	-	-	-	X	X	-	X	X	-
DO40	X	-	-	X	-	-	-	-	X	X	-	X	X	-
DO50	-	-	-	-	-	-	-	-	X	X	-	X	X	-
DO60	X	-	-	X	-	-	-	-	X	X	-	X	X	-
GRDO	-	-	-	-	-	-	-	-	-	-	-	X	X	X
GUA0	X	-	-	-	-	-	-	-	X	X	-	X	X	X
GUAT	X	X	X	-	-	-	X	-	-	-	-	X	-	X
HMBS	-	-	-	-	-	-	-	-	-	X	-	X	-	-
IQA0	X	-	-	X	-	-	X	-	-	-	-	X	-	X
IQB0	X	-	-	-	-	-	-	-	-	-	-	X	-	X
IQC0	X	-	-	-	-	-	-	-	-	-	-	X	-	X
IQD0	X	-	-	X	-	-	X	-	-	-	-	-	-	X
IQE0	X	-	-	-	-	-	-	-	-	-	-	X	-	X
IQF0	X	-	-	X	-	-	X	-	-	-	-	X	-	X
IQG0	X	-	-	-	-	-	X	-	-	-	-	X	-	X
IQH0	X	-	-	X	-	-	X	-	-	-	-	X	-	X
IQI0	X	-	-	-	X	-	X	-	-	-	-	X	-	X
IQK0	-	-	-	-	X	-	X	-	-	-	-	X	-	X
IQM0	X	-	-	-	X	-	X	-	-	-	-	X	-	X
IQN0	X	-	-	X	-	-	X	-	-	-	-	X	-	X
IQO0	X	-	-	-	-	-	X	-	-	-	-	X	-	X
IQP0	X	-	-	X	-	-	X	-	-	-	-	X	-	X
IQQ0	X	-	-	X	-	-	X	-	-	-	-	X	-	X
JLP0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JRGN	-	-	-	-	-	-	-	-	X	X	-	X	X	-
LIVE	X	X	X	-	X	-	X	-	-	-	-	X	X	-
LOBO	-	-	-	-	-	-	-	-	-	-	-	X	X	X
MABL	-	X	X	-	-	-	X	-	-	-	-	X	X	X
MCLA	-	-	-	-	-	-	-	-	X	X	-	X	X	X
MEJ0	X	-	-	X	-	-	-	-	X	X	-	X	X	X
MICA	-	-	-	-	-	-	-	-	-	X	-	X	X	-
MINF	X	X	X	-	X	-	X	-	-	-	-	X	X	-
MNMI	-	-	-	-	-	-	-	-	-	X	-	X	X	X
OFLA	X	X	X	-	-	-	X	-	-	-	-	X	-	X
PA20	-	-	-	-	-	-	-	-	-	-	-	X	-	X
PA30	-	-	-	-	-	-	-	-	-	-	-	X	-	X
PA40	-	-	-	-	-	-	-	-	-	-	-	X	-	X
PA50	-	-	-	-	-	-	-	-	-	-	-	X	-	X
PA60	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PA70	-	-	-	-	-	-	-	-	-	-	-	X	-	X
PACO	X	X	X	-	-	-	X	-	-	-	-	X	-	X
PATI	X	X	X	-	X	-	-	-	-	-	-	X	-	X
PCHA	-	-	-	-	-	-	X	-	X	X	-	X	X	X
PI10	-	-	-	-	-	-	-	-	-	-	-	X	-	X
PI20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PI30	-	-	-	-	-	-	-	-	-	-	-	X	-	X
PI40	-	-	-	-	-	-	-	-	-	-	-	X	-	X
PI50	-	-	-	-	-	-	-	-	-	-	-	X	-	X

PI60	-	-	-	-	-	-	-	-	-	-	-	X	-	X
PI70	-	-	-	-	-	-	-	-	-	-	-	X	-	X
PI80	-	-	-	-	-	-	-	-	-	-	-	X	-	X
PICA	X	X	X	-	X	-	X	-	-	-	-	X	-	X
PICC	-	-	-	-	-	-	-	-	-	-	-	X	X	X
PMEJ	-	-	-	-	-	-	X	-	X	X	-	X	X	X
PSGA	-	-	-	-	-	-	-	-	X	X	-	X	X	X
PTRE	-	-	-	-	-	-	-	-	X	X	-	X	X	-
RADO	-	-	-	-	-	-	-	-	-	X	-	-	X	X
SMRD	-	-	-	-	-	-	-	-	-	-	-	X	X	X
SRGD	-	-	-	-	-	-	-	-	X	X	-	X	X	-
TO10	X	-	-	X	-	-	-	-	X	X	-	X	-	-
TO24	-	-	-	-	-	-	-	-	-	-	-	X	X	X
TO30	X	-	-	-	-	-	-	-	X	X	-	X	X	-
TO40	X	-	-	X	-	-	-	-	X	X	-	X	X	-
TO50	X	-	-	X	-	-	-	-	X	X	-	X	X	X
TO60	X	-	-	X	-	-	-	-	X	X	-	X	X	X
TO70	X	-	-	X	-	-	-	-	X	X	-	X	X	X
TOPI	-	-	-	-	-	-	-	-	-	-	-	X	X	X
TOSN	-	-	-	-	-	-	-	-	-	-	-	X	X	X
UAPE	-	-	-	-	-	-	X	-	X	X	-	X	X	X
UCNF	-	-	-	-	-	-	X	-	-	X	-	X	X	X
URCU	-	-	-	-	-	-	-	-	X	X	-	-	-	-
URIB	X	X	X	-	X	-	X	-	-	-	-	X	X	X
VLZL	-	-	-	-	-	-	-	-	X	X	-	X	-	-
ZAHU	X	X	X	-	X	-	X	-	-	-	-	X	-	X

Chapitre 3

Traitement GAMIT et séries temporelles du réseau Ovalle-petit Nord

On présente dans ce chapitre le détail du traitement des campagnes conduites depuis 2010 sur les réseaux du petit Nord Chili et d'Ovalle-La Serena (figure 3.1 et tables 3.1 et 3.2). Le planning des mesures est détaillé pour chaque campagne et le station.info utilisé pour le traitement est reproduit. Les résultats des tests de répétabilité sont également présentés, ainsi que les éventuels problèmes rencontrés lors du traitement et les choix qui ont été faits pour les résoudre.

Les séries temporelles associées à chaque marqueur sont également présentées à la fin du chapitre. On peut y lire la vitesse estimée à partir des positions calculées pour chaque campagne sans correction ou élimination des données anormales (en noir), et la vitesse estimée après correction par le fichier “.eq” (chapitre 1) qui sera celle retenue dans le jeu de vitesses final.

Campagnes	2010	2011	2012
marqueurs	20	20	33
région (°S)	26-28	26-28	25-28

TAB. 3.1: Liste des campagnes conduites sur le réseau du petit Nord Chili.

Campagnes	2009-2	2010-2	2011-2
marqueurs	53	53	47
région (°S)	28.5-32	28.5-32	28.5-32

TAB. 3.2: Liste des campagnes conduites sur le réseau Ovalle-La Serena conduites depuis 2009.

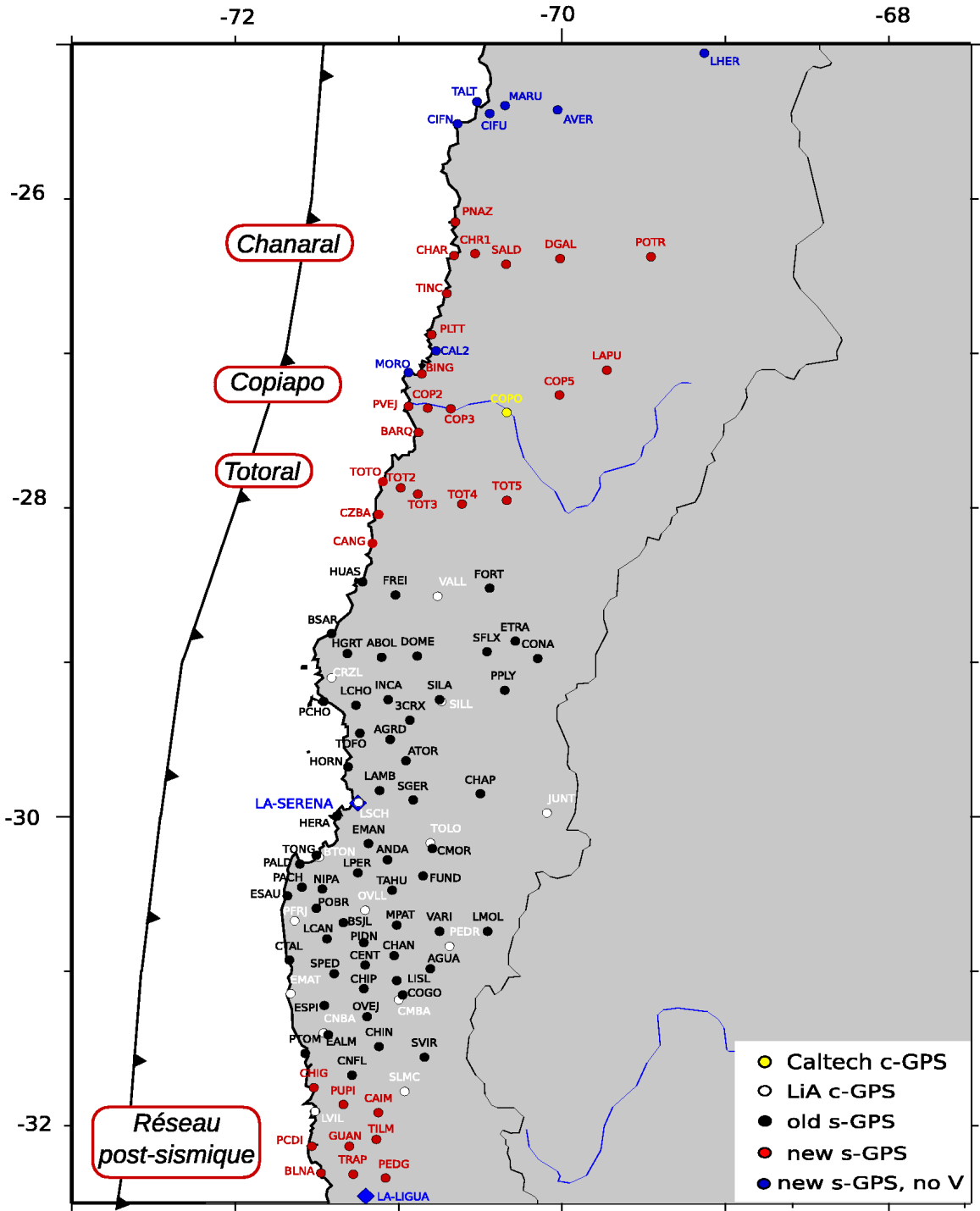


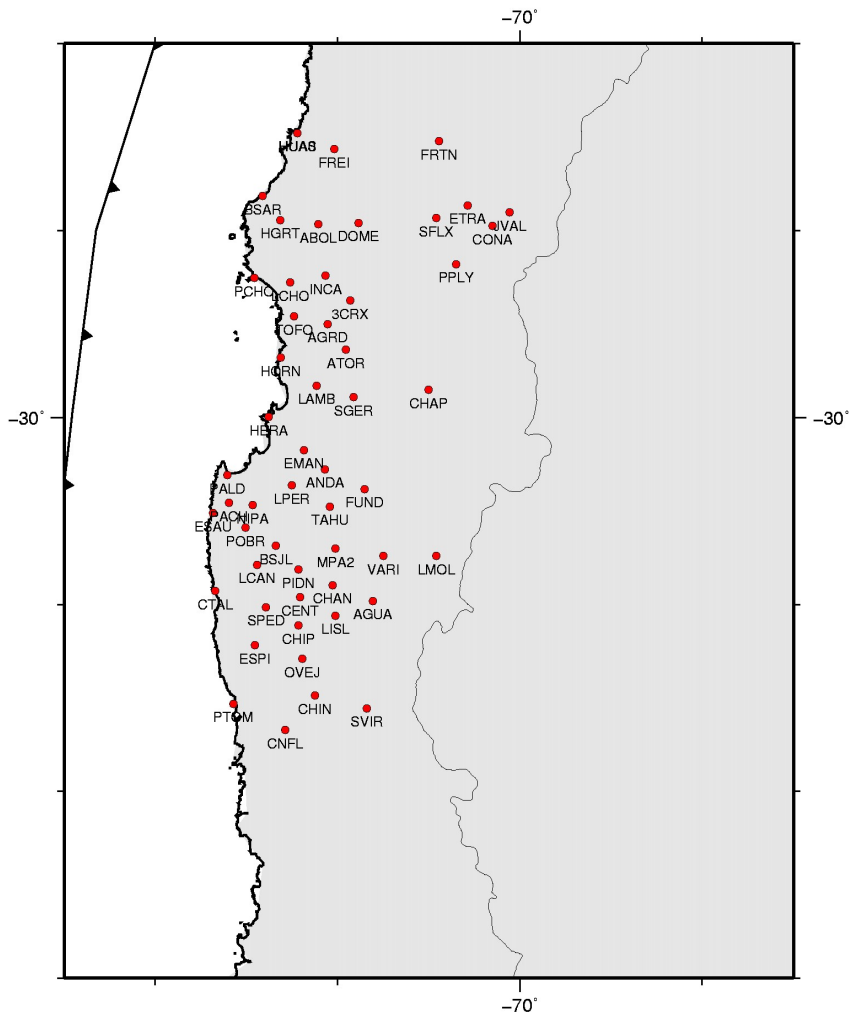
FIG. 3.1: Etat actuel du réseau c- et s-GPS dans le réseau Ovalle-petit Nord.

GPS campaign – 2009 – LiA

Station.info source: log sheets
quality : good

Map

DOY 337-352



Julian days : 03 dec. → 18 dec.

Season : Summer

GPS weeks : 1560 → 1562

SITE	Station Name	AntHt	Receiver	Type	Receiver SN	Antenna Type	Antenna SN
	Ovalle Network December 2009						

3CRX	0.0440	DHPAB	ASHTECH	Z-X	ZE1200528054	ASH701975.01A	8764
ABOL	0.0440	DHPAB	ASHTECH	Z-X	ZE120030733	ASH701975.01A	7485
AGRD	0.7432	DHPAB	ASHTECH	Z-X	ZE120024307	ASH701975.01A	7192
AGUA	0.0440	DHPAB	ASHTECH	Z-X	ZE1200348006	ASH701975.01A	8919
ANDA	0.0440	DHPAB	ASHTECH	Z-X	ZE1200526051	ASH701975.01A	8918
ATOR	0.0440	DHPAB	ASHTECH	Z-X	ZE120024135	ASH701975.01A	7160
BSAR	0.0280	DHPAB	ASHTECH	Z-X	ZE120020320	ASH701975.01A	8940
BSJL	0.6433	DHPAB	ASHTECH	Z-X	ZE1200149222	ASH701975.01A	6435
CENT	0.0440	DHPAB	ASHTECH	Z-X	ZE120021207	ASH701975.01A	8724
CHAN	0.0440	DHPAB	ASHTECH	Z-X	ZE120020320	ASH701975.01A	8940
CHAP	0.0280	DHPAB	ASHTECH	Z-X	ZE1200321065	ASH701975.01A	7930
CHIN	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321065	ASH701975.01A	7930
CHIP	0.0440	DHPAB	ASHTECH	Z-X	ZE1200452004	ASH701975.01A	7913
CNFL	0.0440	DHPAB	ASHTECH	Z-X	ZE120024307	ASH701975.01A	7192
CONA	0.8570	DHPAB	ASHTECH	Z-X	ZE1200321072	ASH701975.01A	7737
CTAL	0.0670	DHPAB	ASHTECH	Z-X	ZE1200321056	ASH701975.01A	7656
DOME	0.0440	DHPAB	ASHTECH	Z-X	ZE1200526047	ASH701975.01A	8374
EMAN	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321072	ASH701975.01A	7737
ESAU	0.0320	DHPAB	ASHTECH	Z-X	ZE120024130	ASH701975.01A	7159
ESPI	0.0440	DHPAB	ASHTECH	Z-X	ZE120024135	ASH701975.01A	7160
ETRA	0.0670	DHPAB	ASHTECH	Z-X	ZE120021205	ASH701975.01A	7467
FRTN	0.0440	DHPAB	ASHTECH	Z-X	ZE1200526051	ASH701975.01A	8918
FREI	0.0440	DHPAB	ASHTECH	Z-X	ZE1200348013	ASH701975.01A	6419
FUND	0.0280	DHPAB	ASHTECH	Z-X	ZE120021205	ASH701975.01A	7467
HERA	0.0280	DHPAB	ASHTECH	Z-X	ZE1200321056	ASH701975.01A	7656
HGRT	0.0440	DHPAB	ASHTECH	Z-X	ZE1200452004	ASH701975.01A	7913
HORN	0.0440	DHPAB	ASHTECH	Z-X	ZE120024130	ASH701975.01A	7159
HUA0	0.0440	DHPAB	ASHTECH	Z-X	ZE1200149222	ASH701975.01A	6435
HUAS	0.9771	DHPAB	ASHTECH	Z-X	ZE120024307	ASH701975.01A	7192
INCA	0.0440	DHPAB	ASHTECH	Z-X	ZE1200348013	ASH701975.01A	6419
LAMB	0.6624	DHPAB	ASHTECH	Z-X	ZE1200321065	ASH701975.01A	7930
LCAN	0.0440	DHPAB	ASHTECH	Z-X	ZE1200348013	ASH701975.01A	6419
LCHO	0.0440	DHPAB	ASHTECH	Z-X	ZE1200348014	ASH701975.01A	7914
LISL	0.0280	DHPAB	ASHTECH	Z-X	ZE1200526047	ASH701975.01A	8374
LMOL	0.0670	DHPAB	ASHTECH	Z-X	ZE1200526051	ASH701975.01A	8918
LPER	0.0440	DHPAB	ASHTECH	Z-X	ZE1200149222	ASH701975.01A	6435
MPA2	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321072	ASH701975.01A	7737
NIPA	0.0440	DHPAB	ASHTECH	Z-X	ZE1200452020	ASH701975.01A	7112
OVEJ	0.0440	DHPAB	ASHTECH	Z-X	ZE120030733	ASH701975.01A	7485
PACH	0.0440	DHPAB	ASHTECH	Z-X	ZE1200452020	ASH701975.01A	7112
PALD	0.0440	DHPAB	ASHTECH	Z-X	ZE1200348014	ASH701975.01A	7914
PCHO	0.0440	DHPAB	ASHTECH	Z-X	ZE120021207	ASH701975.01A	8724
PIDN	0.0440	DHPAB	ASHTECH	Z-X	ZE1200348014	ASH701975.01A	7914
POBR	1.1578	DHPAB	ASHTECH	Z-X	ZE120024130	ASH701975.01A	7159
PPLY	0.0440	DHPAB	ASHTECH	Z-X	ZE1200348006	ASH701975.01A	8919
PTOM	1.0645	DHPAB	ASHTECH	Z-X	ZE1200348005	ASH701975.01A	8807
SFLX	0.0440	DHPAB	ASHTECH	Z-X	ZE1200452020	ASH701975.01A	7112
SGER	0.0440	DHPAB	ASHTECH	Z-X	ZE120024135	ASH701975.01A	7160
SPED	0.0440	DHPAB	ASHTECH	Z-X	ZE1200528054	ASH701975.01A	8764
SVIR	0.0440	DHPAB	ASHTECH	Z-X	ZE1200348005	ASH701975.01A	8807
TAHU	0.0440	DHPAB	ASHTECH	Z-X	ZE1200348006	ASH701975.01A	8919
TOFO	1.0896	DHPAB	ASHTECH	Z-X	ZE120024121	ASH701975.01A	7163
VARI	0.0440	DHPAB	ASHTECH	Z-X	ZE120021205	ASH701975.01A	7467

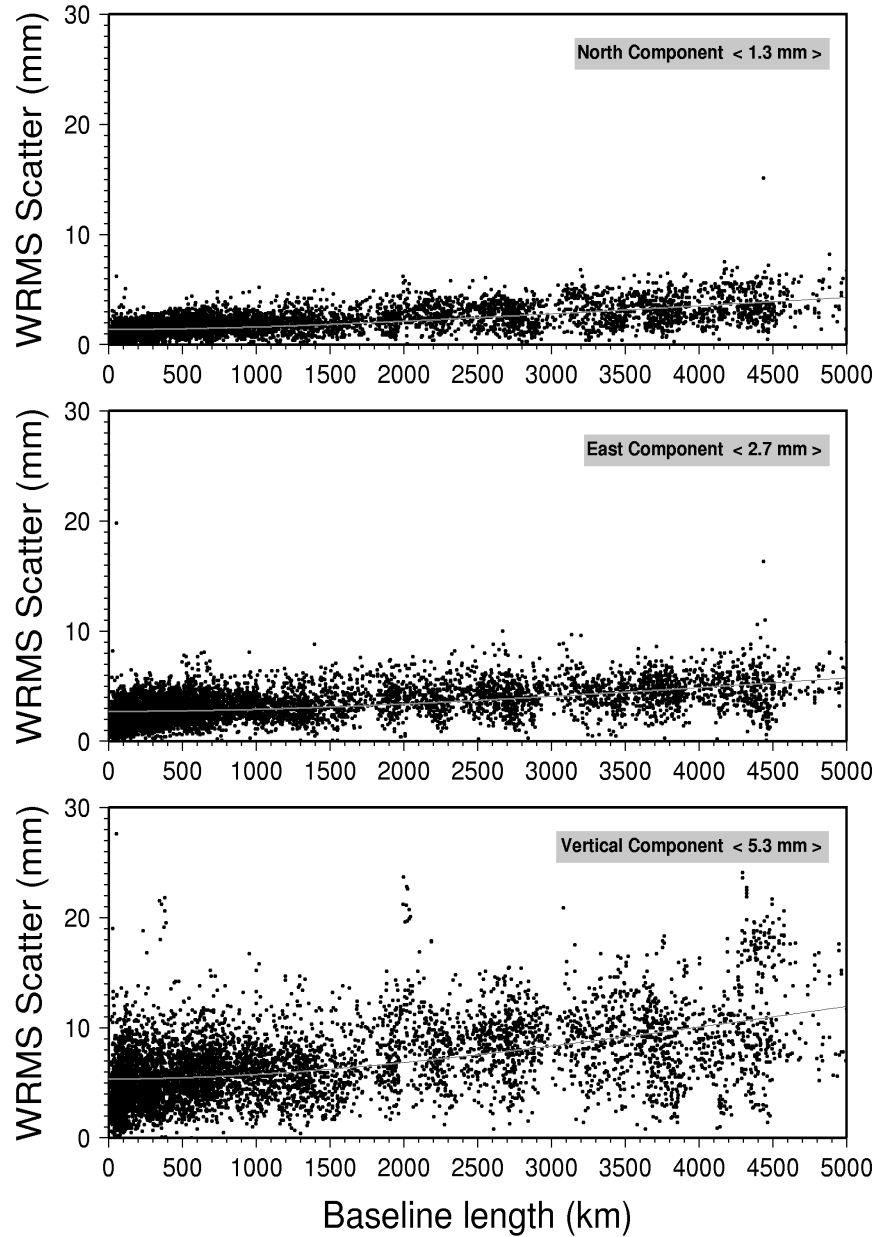
	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352
maul	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
sjav	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
cons	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
rcsd	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
dgfl	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
vnev	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
valn	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
robl	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
port	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
lvil	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
slmc	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
cnba	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
cmba	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
emat	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
pedr	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X
pfrj	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ovll	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
bton	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
tolo	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
junt	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
lsch	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
sill	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
crzl	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
vall	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Notes / Issues

→ BTON & PACH generate a fatal / lcnorm in DOY 345, not used.

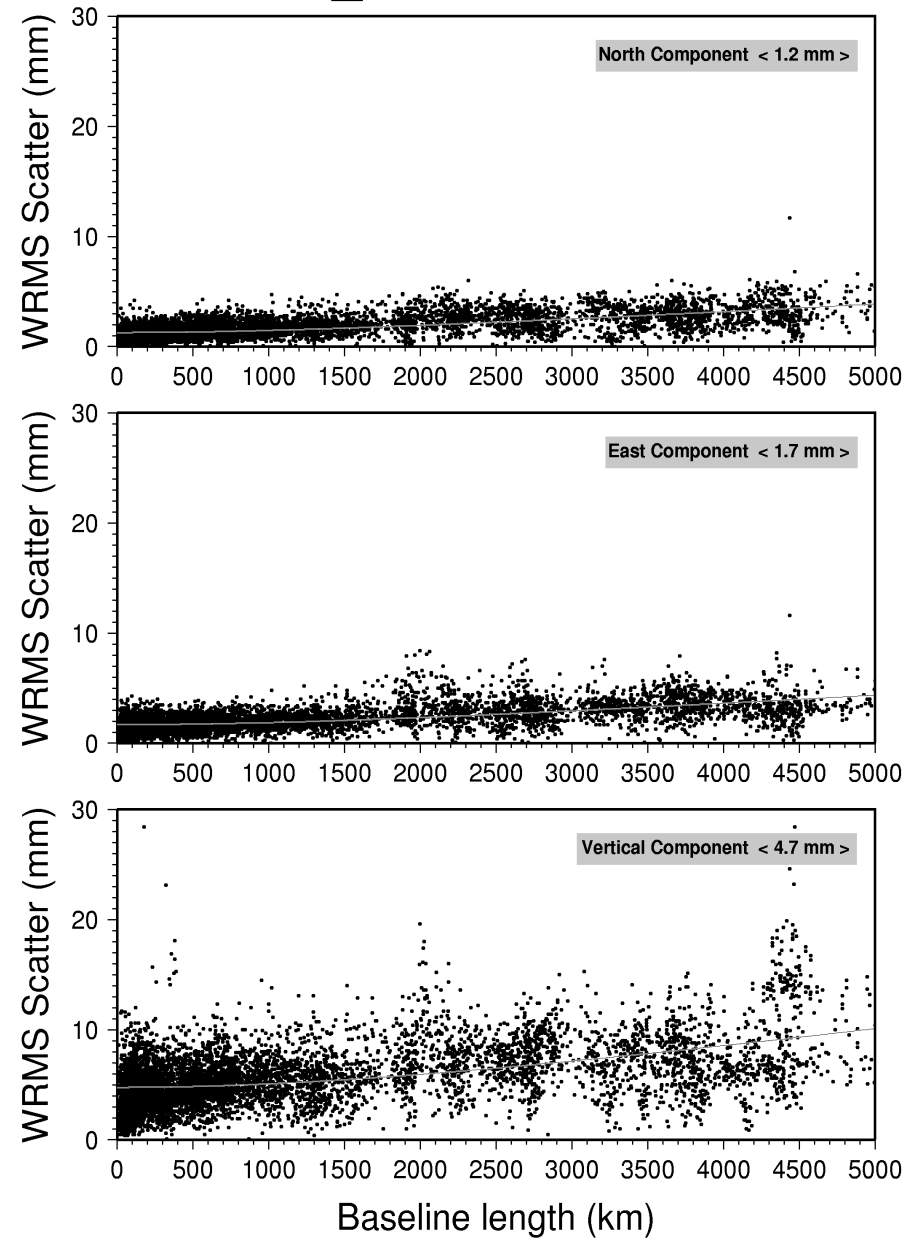
Repetabilities biases free

OVALLE 2009_2 - IGS orbits - biases free



Repetabilities biases fixed

OVALLE 2009_2 - IGS orbits - biases fixed

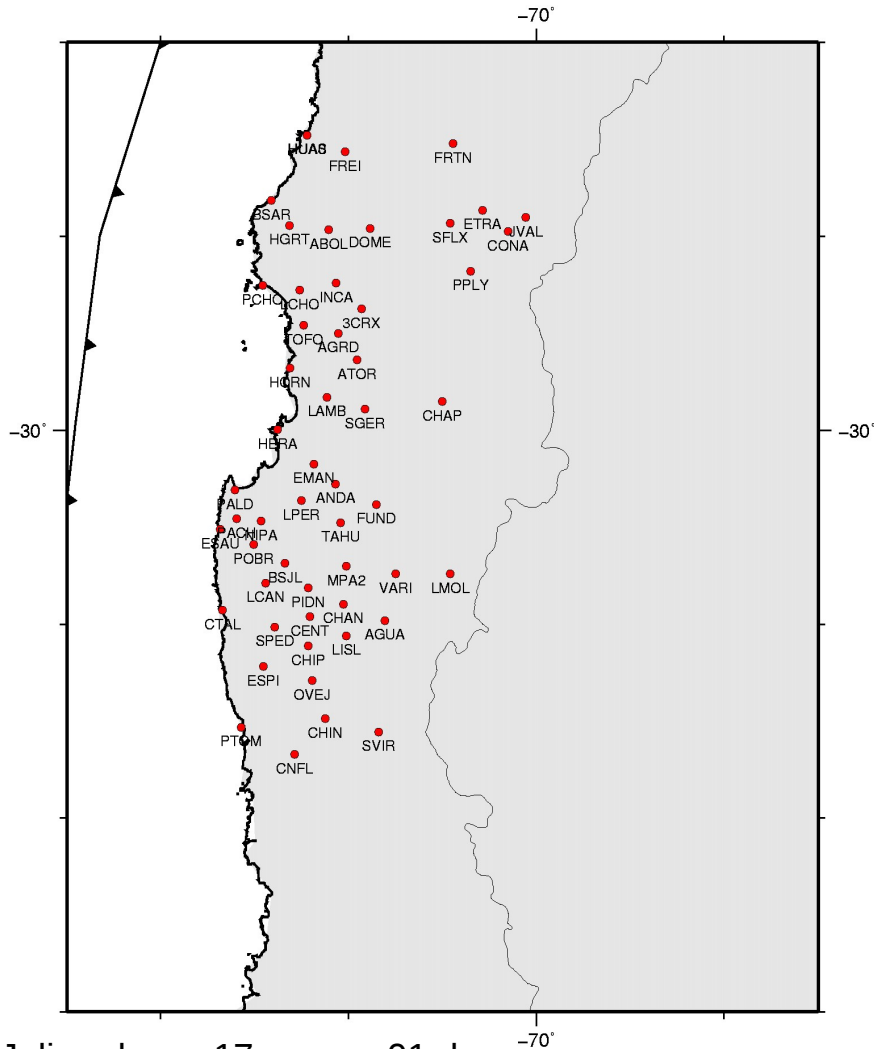


GPS campaign – 2010 – LiA

Station.info source: log sheets
quality : good

Map

DOY 321-335



Julian days : 17 nov. → 01 dec.

Season : Summer

GPS weeks : 1610 → 1612

SITE	Station Name	AntHt	Receiver	Type	Receiver SN	Antenna Type	Antenna SN	*
Ovalle Network	December 2010							
*	-----							
3CRX	0.0440	DHPAB	ASHTECH	Z-X	ZE1200348013	ASH701975.01A	7914	
ABOL	0.0440	DHPAB	ASHTECH	Z-X	ZE1200348019	ASH701975.01A	7916	
AGRD	0.8726	DHPAB	ASHTECH	Z-X	ZE120023623	ASH701975.01A	7913_LIA2	
AGUA	0.0440	DHPAB	ASHTECH	Z-X	ZE1200526049	ASH701975.01A	7467	
ANDA	0.0440	DHPAB	ASHTECH	Z-X	ZE1200348005	ASH701975.01A	7485	
ATOR	0.0440	DHPAB	ASHTECH	Z-X	ZE120024135	ASH701975.01A	7160	
BSAR	0.0280	DHPAB	ASHTECH	Z-X	ZE1200452013	ASH701975.01A	8764	
BSJL	0.06124	DHPAB	ASHTECH	Z-X	ZE1200452004	ASH701975.01A	8807_LIA3	
CENT	0.0440	DHPAB	ASHTECH	Z-X	ZE1200528053	ASH701975.01A	8724	
CHAN	0.0440	DHPAB	ASHTECH	Z-X	ZE1200452013	ASH701975.01A	8764	
CHAP	0.0280	DHPAB	ASHTECH	Z-X	ZE1200321065	ASH701975.01A	737	
CHIN	0.0440	DHPAB	ASHTECH	Z-X	ZE1200348019	ASH701975.01A	7916	
CHIP	0.0440	DHPAB	ASHTECH	Z-X	ZE1200324038	ASH701975.01A	7139	
CNFL	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321065	ASH701975.01A	7737	
CONA	0.8932	DHPAB	ASHTECH	Z-X	ZE1200324053	ASH701975.01A	7930_W	
CTAL	0.0670	DHPAB	ASHTECH	Z-X	ZE1200324053	ASH701975.01A	7930	
DOME	0.0440	DHPAB	ASHTECH	Z-X	ZE1200452010	ASH701975.01A	8374	
EMAN	0.0440	DHPAB	ASHTECH	Z-X	ZE1200452004	ASH701975.01A	8807	
ESAU	0.0280	DHPAB	ASHTECH	Z-X	ZE120024307	ASH701975.01A	7192	
ESPI	0.0440	DHPAB	ASHTECH	Z-X	ZE1200452010	ASH701975.01A	8374	
ETRA	0.0670	DHPAB	ASHTECH	Z-X	ZE1200348006	ASH701975.01A	8579	
FRTN	0.0440	DHPAB	ASHTECH	Z-X	ZE1200324038	ASH701975.01A	7139	
FREI	0.0440	DHPAB	ASHTECH	Z-X	ZE1200348013	ASH701975.01A	7914	
FUND	0.0280	DHPAB	ASHTECH	Z-X	ZE1200526049	ASH701975.01A	7467	
HERA	0.0280	DHPAB	ASHTECH	Z-X	ZE120024121	ASH701975.01A	7163	
HGR	0.0440	DHPAB	ASHTECH	Z-X	ZE1200452015	ASH701975.01A	6435	
HORN	0.0440	DHPAB	ASHTECH	Z-X	ZE1200411010	ASH701975.01A	8918	
HUA0	0.0440	DHPAB	ASHTECH	Z-X	ZE120023623	ASH701975.01A	7913	
INCA	0.0440	DHPAB	ASHTECH	Z-X	ZE1200324038	ASH701975.01A	7139	
JVAL	0.0440	DHPAB	ASHTECH	Z-X	ZE1200526149	ASH701975.01A	7467	
LAMB	0.8645	DHPAB	ASHTECH	Z-X	ZE1200321065	ASH701975.01A	7737_LIA5	
LCAN	0.0440	DHPAB	ASHTECH	Z-X	ZE1200348013	ASH701975.01A	7914	
LCHO	0.0440	DHPAB	ASHTECH	Z-X	ZE1200528053	ASH701975.01A	8724	
LISL	0.0280	DHPAB	ASHTECH	Z-X	ZE1200452015	ASH701975.01A	6435	
LMOL	0.0280	DHPAB	ASHTECH	Z-X	ZE1200348005	ASH701975.01A	7485	
LPER	0.0440	DHPAB	ASHTECH	Z-X	ZE1200348006	ASH701975.01A	8579	
MPA2	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321056	ASH701975.01A	7656	
NIPA	0.0440	DHPAB	ASHTECH	Z-X	ZE120024121	ASH701975.01A	7163	
OVEJ	0.0440	DHPAB	ASHTECH	Z-X	ZE120024135	ASH701975.01A	7160	
PACH	0.0440	DHPAB	ASHTECH	Z-X	ZE120024121	ASH701975.01A	7163	
PALD	0.0440	DHPAB	ASHTECH	Z-X	ZE1200411010	ASH701975.01A	8918	
PCHO	0.0440	DHPAB	ASHTECH	Z-X	ZE1200452020	ASH701975.01A	8727	
PIDN	0.0440	DHPAB	ASHTECH	Z-X	ZE1200452020	ASH701975.01A	8727	
POBR	0.9912	DHPAB	ASHTECH	Z-X	ZE120024307	ASH701975.01A	7192_LIA4	
PPLY	0.0440	DHPAB	ASHTECH	Z-X	ZE120024307	ASH701975.01A	7192	
PTOM	1.0715	DHPAB	ASHTECH	Z-X	ZE1200452009	ASH701975.01A	8919_LIA1	
SFLX	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321056	ASH701975.01A	7656	
SGER	0.0440	DHPAB	ASHTECH	Z-X	ZE120024135	ASH701975.01A	7160	
SPED	0.0440	DHPAB	ASHTECH	Z-X	ZE120023623	ASH701975.01A	7913	
SVIR	0.0440	DHPAB	ASHTECH	Z-X	ZE120024130	ASH701975.01A	7159	
TAHU	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321056	ASH701975.01A	7656	
TOFO	1.2602	DHPAB	ASHTECH	Z-X	ZE120024130	ASH701975.01A	7159_LIA1	
VARI	0.0440	DHPAB	ASHTECH	Z-X	ZE1200348006	ASH701975.01A	8579	

Rinex source : LiA x-ok ; O-deleted

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antc	X	X	X	-	X	X	X	X	X	X	X	X	X	X	X
areq	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
braz	X	-	X	X	-	X	X	X	-	-	X	X	X	X	X
brft	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
kour	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
lpgs	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
sant	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
rio2	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X
ispa	X	X	X	X	X	-	X	X	X	X	X	X	X	X	X
glps	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
copo	X	X	X	-	X	X	X	X	X	X	X	X	X	X	X
conz	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
lhcl	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
tucu	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ufpr	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X
chpi	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
cfag	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
unsa	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
alum	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
azul	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
cata	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
esqu	X	X	X	X	X	X	X	X	X	-	-	-	-	X	X
meco	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ma01	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-
mzac	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
mzae	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
srlp	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
sl01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
tero	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
tucl	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
unro	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
unsj	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
vbca	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X
cuib	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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poal	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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savo	X	X	X	-	-	-	-	-	-	-	-	-	-	-	X
topl	X	X	-	-	-	-	-	X	X	X	X	X	X	X	X
mtco	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
salu	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
batf	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ceeu	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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3crx	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X
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agrđ	-	-	-	-	-	-	-	-	-	-	X	X	X	X	X
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anda	-	-	-	-	-	-	-	-	X	X	X	X	-	-	-
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dome	-	-	-	-	-	-	-	-	-	X	X	X	X	X	-
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frei	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X
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hgrt	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-
horn	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-
huas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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inca	-	-	-	-	-	-	-	-	X	X	X	X	X	-	-
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lamb	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X
lcan	-	X	X	X	X	X	-	-	-	-	-	-	-	-	-
lcho	-	-	-	-	-	-	-	-	X	X	X	X	X	X	-
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lmol	-	-	X	X	X	X	-	-	-	-	-	-	-	-	-
lper	-	-	-	-	-	-	X	X	X	X	X	-	-	-	-
mpa2	-	-	X	X	X	X	-	-	-	-	-	-	-	-	-
nipa	-	X	X	X	X	X	-	-	-	-	-	-	-	-	-
ovej	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-
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pald	-	-	-	X	X	X	X	X	X	-	-	-	-	-	-
pcho	-	-	-	-	-	-	-	X	X	X	X	X	X	X	-
pidn	-	X	X	X	X	X	-	-	-	-	-	-	-	-	-
pobr	-	X	X	X	-	-	-	-	-	-	-	-	-	-	-
pply	-	-	-	-	-	-	-	-	-	-	-	X	X	X	-
ptom	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-
sflx	-	-	-	-	-	-	-	-	-	-	-	X	X	X	-
sger	-	-	-	-	-	-	X	X	X	X	X	-	-	-	-
sped	-	-	X	X	X	X	X	-	-	-	-	-	-	-	-
svir	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-
tahu	-	-	-	-	-	-	X	X	X	X	X	-	-	-	-
tofo	-	-	-	-	-	-	-	X	X	X	X	X	X	X	-
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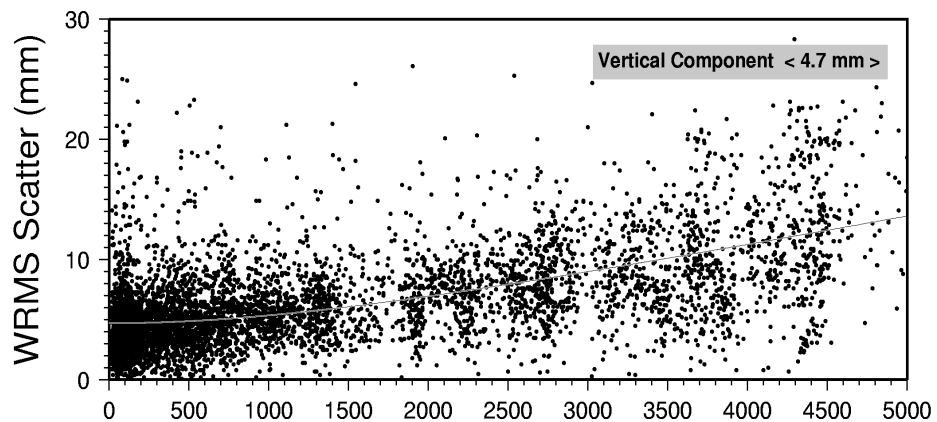
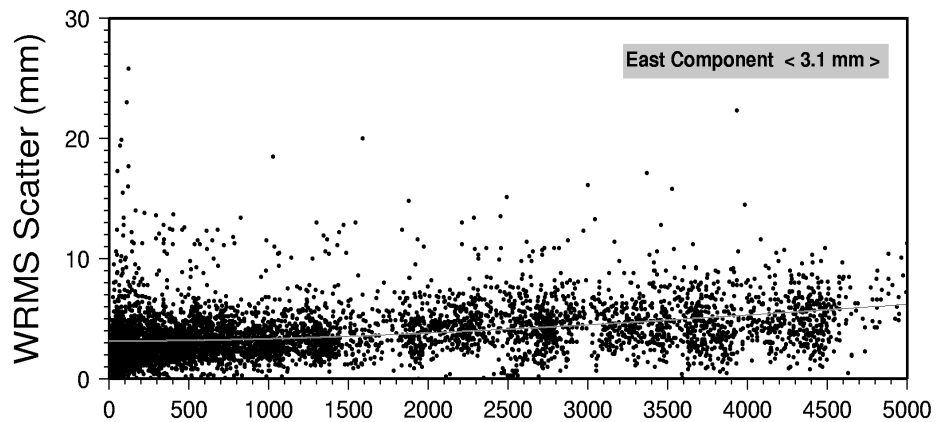
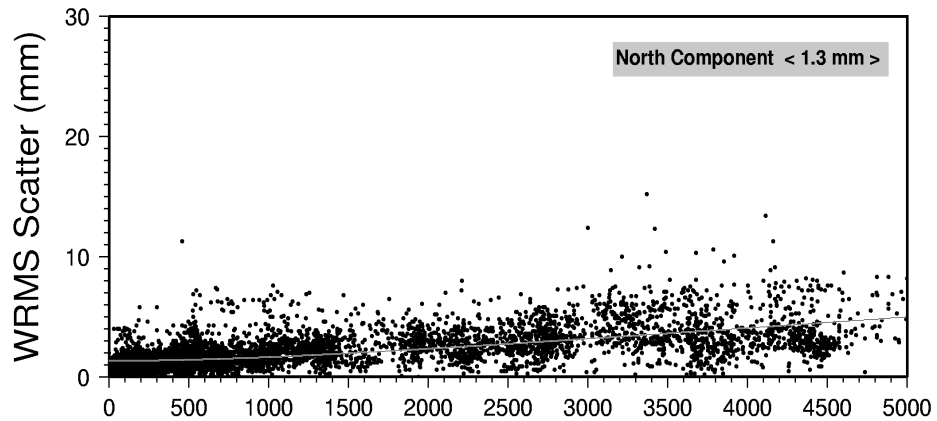
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vnev	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
valn	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
robl	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
port	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
lvil	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-
slmc	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
cnba	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-
cmba	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-
emat	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-
pedr	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pfrj	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
ovll	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
bton	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
tolo	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
junt	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
lsch	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
sill	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
crzl	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
vall	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Notes / Issues

→

Repetabilities biases free

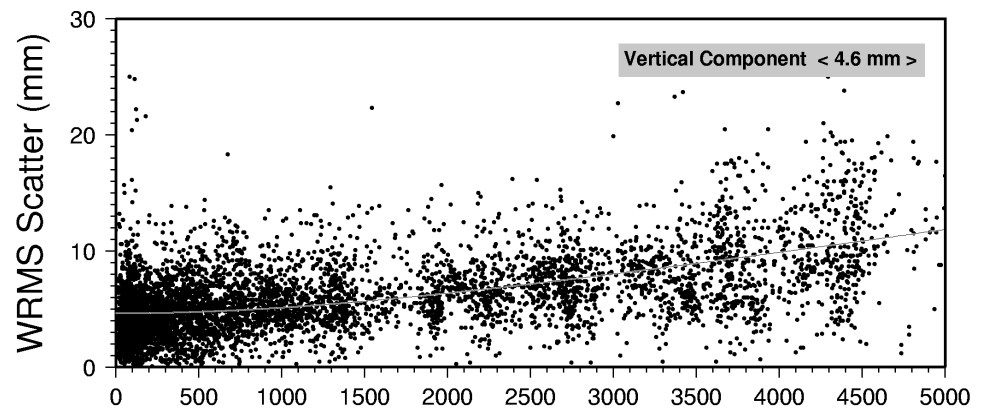
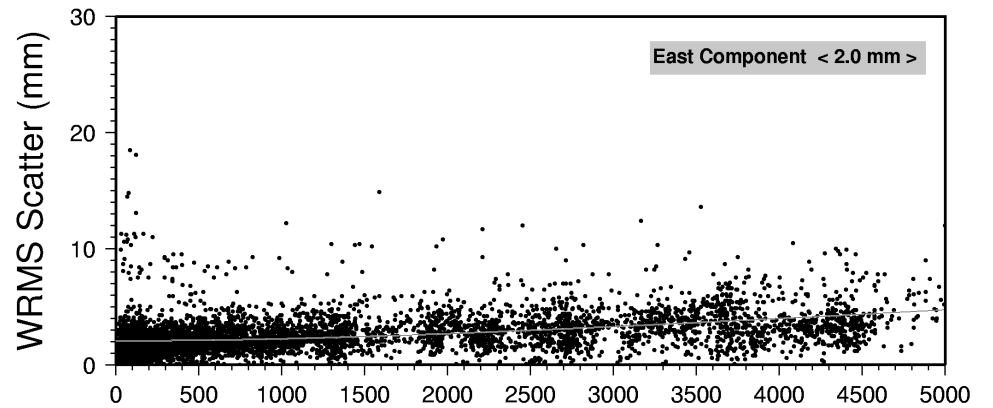
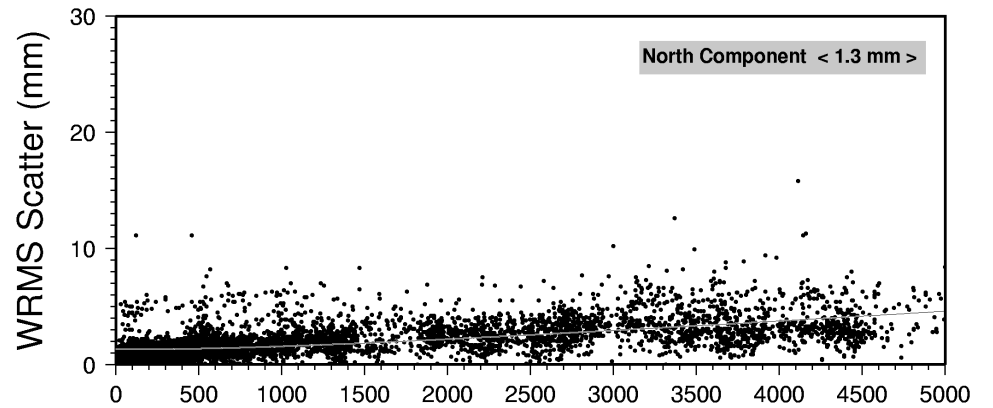
OVALLE 2010_2 - IGS orbits - biases free



Baseline length (km)

Repetabilities biases fixed

OVALLE 2010_2 - IGS orbits - biases fixed



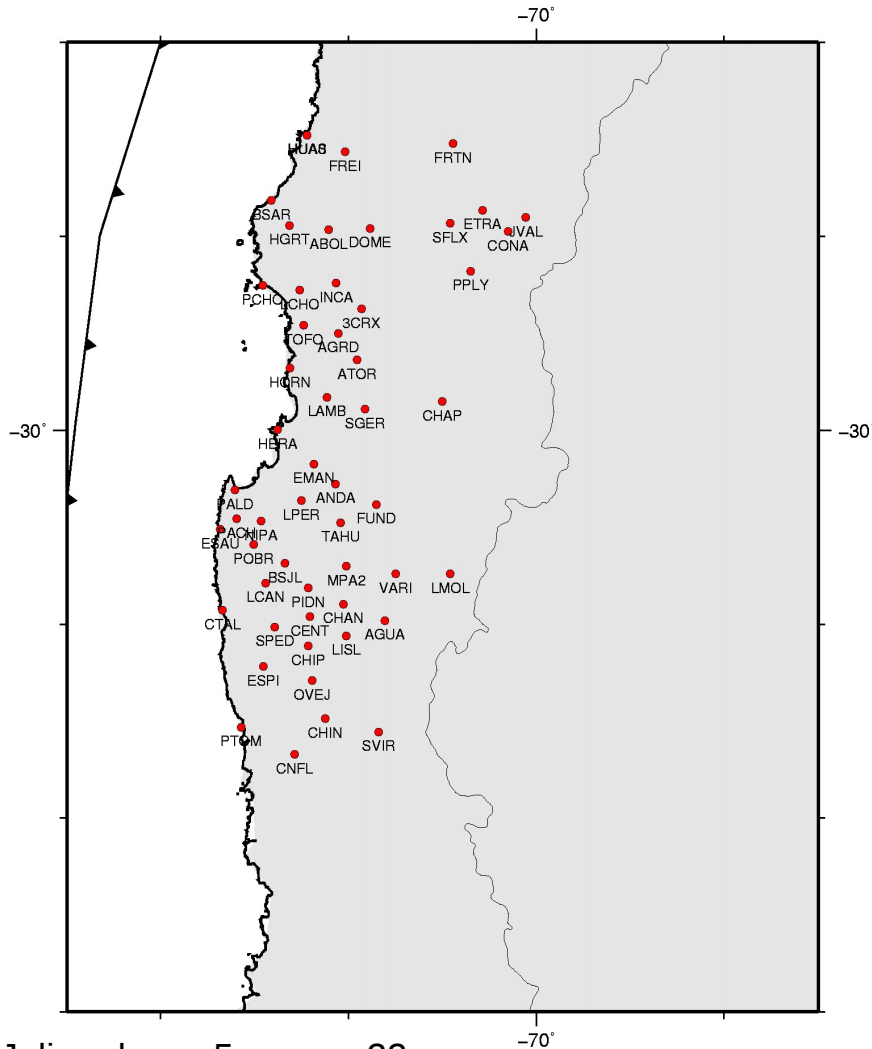
Baseline length (km)

GPS campaign – 2011 – LiA

Station.info source: log sheets
quality : good

Map

DOY 309-326



Julian days : 5 nov. → 22 nov.

Season : Summer

GPS weeks : 1660 → 1663

SITE Station Name AntHt Receiver Type Receiver SN Antenna Type Antenna SN * *
Ovalle Network December 2011

3CRX	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321065	ASH701975.01A	7737
ABOL	0.0440	DHPAB	ASHTECH	Z-X	ZE120020320	ASH701975.01A	7914
AGRD	0.8781	DHPAB	ASHTECH	Z-X	ZE120024307	ASH701975.01A	7192_LIA1
AGUA	0.0440	DHPAB	ASHTECH	Z-X	ZE1200324053	ASH701975.01A	7930
ANDA	0.0440	DHPAB	ASHTECH	Z-X	ZE120024130	ASH701975.01A	7159
ATOR	0.0440	DHPAB	ASHTECH	Z-X	ZE1200526051	ASH701975.01A	8374
BSAR	0.0280	DHPAB	ASHTECH	Z-X	ZE120020324	ASH701975.01A	8764
CENT	0.0440	DHPAB	ASHTECH	Z-X	ZE120020320	ASH701975.01A	7914
CHAN	0.0440	DHPAB	ASHTECH	Z-X	ZE120024121	ASH701975.01A	7163
CHIN	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321056	ASH701975.01A	7656
CHIP	0.0440	DHPAB	ASHTECH	Z-X	ZE1200526051	ASH701975.01A	8374
CNFL	0.0440	DHPAB	ASHTECH	Z-X	ZE1200324053	ASH701975.01A	7930
CTAL	0.0670	DHPAB	ASHTECH	Z-X	ZE1200348014	ASH701975.01A	8807
DOME	0.0440	DHPAB	ASHTECH	Z-X	ZE120024130	ASH701975.01A	7159
EMAN	0.0440	DHPAB	ASHTECH	Z-X	ZE1200526051	ASH701975.01A	8374
ESAU	0.0280	DHPAB	ASHTECH	Z-X	ZE120024307	ASH701975.01A	7192
ESPI	0.0440	DHPAB	ASHTECH	Z-X	ZE120024135	ASH701975.01A	7160
FRTN	0.0440	DHPAB	ASHTECH	Z-X	ZE120024121	ASH701975.01A	7163
FREI	0.0440	DHPAB	ASHTECH	Z-X	ZE1200526051	ASH701975.01A	8374
FUND	0.0280	DHPAB	ASHTECH	Z-X	ZE120024135	ASH701975.01A	7160
HERA	0.0280	DHPAB	ASHTECH	Z-X	ZE1200324053	ASH701975.01A	7930
HGRT	0.0440	DHPAB	ASHTECH	Z-X	ZE120024135	ASH701975.01A	7160
HORN	0.0440	DHPAB	ASHTECH	Z-X	ZE1200324053	ASH701975.01A	7930
HUA0	0.0440	DHPAB	ASHTECH	Z-X	ZE1200324053	ASH701975.01A	7930
INCA	0.0440	DHPAB	ASHTECH	Z-X	ZE120023821	ASH701975.01A	8724
LAMB	0.9495	DHPAB	ASHTECH	Z-X	ZE120024121	ASH701975.01A	7163_LIA5
LCAN	0.0440	DHPAB	ASHTECH	Z-X	ZE1200348014	ASH701975.01A	8807
LCHO	0.0440	DHPAB	ASHTECH	Z-X	ZE1200348014	ASH701975.01A	8807
LISL	0.0280	DHPAB	ASHTECH	Z-X	ZE120024130	ASH701975.01A	7159
LMOL	0.0280	DHPAB	ASHTECH	Z-X	ZE120023821	ASH701975.01A	8724
LPER	0.0440	DHPAB	ASHTECH	Z-X	ZE120024121	ASH701975.01A	7163
MPA2	0.0440	DHPAB	ASHTECH	Z-X	ZE120024307	ASH701975.01A	7192
NIPA	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321065	ASH701975.01A	7737
OVEJ	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321065	ASH701975.01A	7737
PACH	0.0440	DHPAB	ASHTECH	Z-X	ZE120020320	ASH701975.01A	7914
PALD	0.0440	DHPAB	ASHTECH	Z-X	ZE120023821	ASH701975.01A	8724
PCHO	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321056	ASH701975.01A	7656
PIDN	0.0440	DHPAB	ASHTECH	Z-X	ZE120020324	ASH701975.01A	8764
POBR	1.0931	DHPAB	ASHTECH	Z-X	ZE120020324	ASH701975.01A	8764_LIA2
PPLY	0.0440	DHPAB	ASHTECH	Z-X	ZE120020324	ASH701975.01A	8764
PTOM	0.7069	DHPAB	ASHTECH	Z-X	ZE120023821	ASH701975.01A	8724_LIA2
SFLX	0.0440	DHPAB	ASHTECH	Z-X	ZE120020320	ASH701975.01A	7914
SGER	0.0440	DHPAB	ASHTECH	Z-X	ZE120024130	ASH701975.01A	7159
SVIR	0.0440	DHPAB	ASHTECH	Z-X	ZE120024307	ASH701975.01A	7192
TAHU	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321056	ASH701975.01A	7656
TOFO	1.0926	DHPAB	ASHTECH	Z-X	ZE120023821	ASH701975.01A	8724_LIA2
VARI	0.0440	DHPAB	ASHTECH	Z-X	ZE120020320	ASH701975.01A	7914

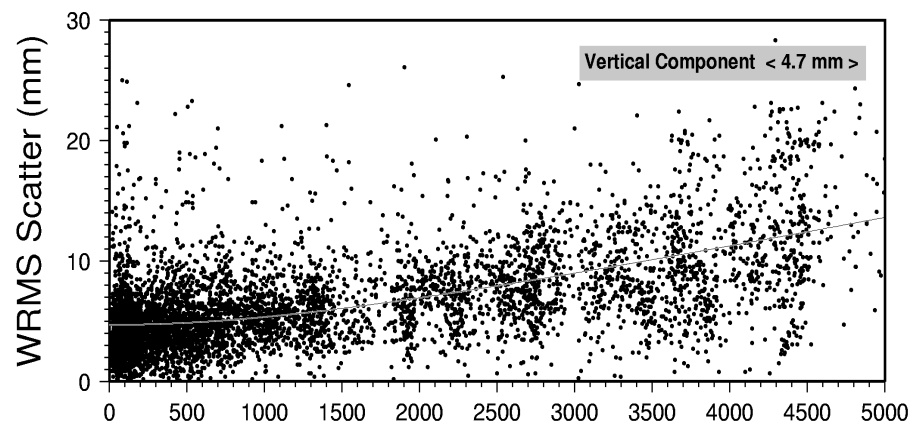
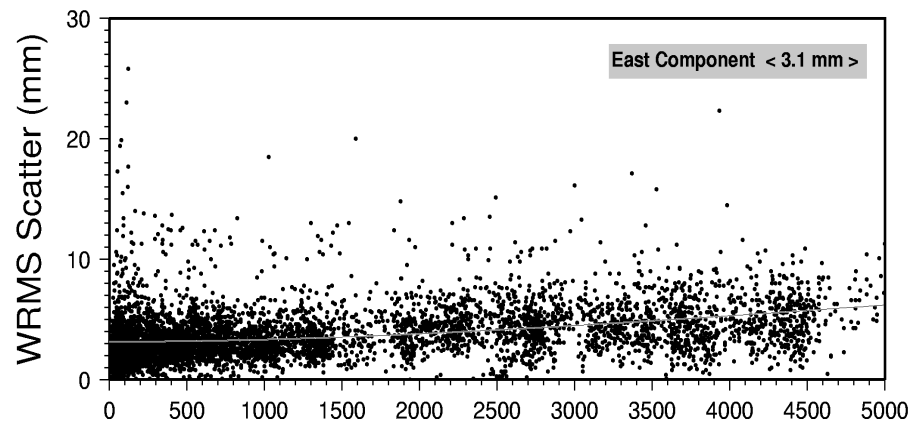
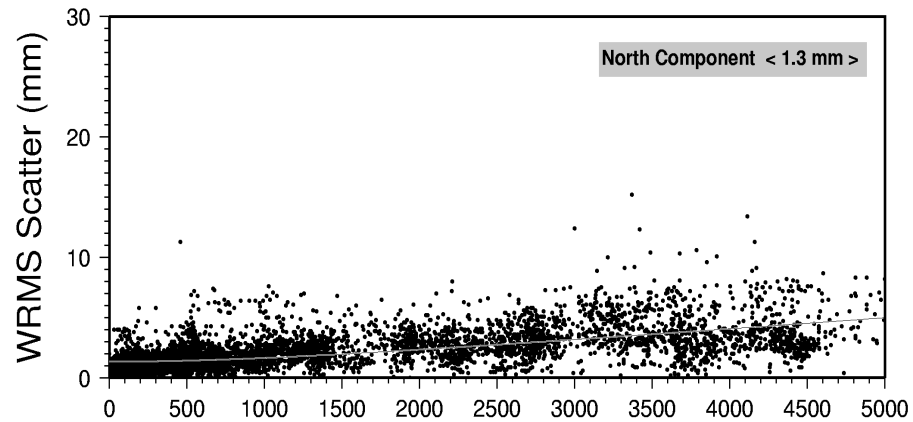
Rinex source : LiA

x-ok ; O-deleted

	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326
3crx	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	X
abol	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-
agrd	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	X
agua	-	-	-	-	-	-	-	X	X	X	-	-	-	-	-	-	-	-
anda	-	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	-
ator	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-	-	-
bsar	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-
bsjl	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cent	-	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-
chan	-	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-
chap	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
chin	-	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-
chip	-	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-
cnfl	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-
cona	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ctal	-	-	-	-	-	-	-	-	X	X	X	X	X	-	-	-	-	-
dome	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X
eman	-	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	-
esau	-	-	-	-	-	-	-	-	-	-	X	X	X	-	-	-	-	-
espi	-	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-
etra	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
frtn	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X
frei	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X
fund	-	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	-
hera	-	-	-	-	-	-	-	-	-	-	X	X	X	-	-	-	-	-
hgrt	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-
horn	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	-	-	-
huas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
hua0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X
inca	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X
jval	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
lamb	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-	-	-
lcan	-	-	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-
lcho	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-
lisl	-	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-
lmol	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	-	-
lper	-	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	-
mpa2	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	-	-
nipa	-	-	-	-	-	-	-	-	X	X	X	X	X	-	-	-	-	-
ovej	-	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-
pach	-	-	-	-	-	-	-	-	-	-	X	X	X	-	-	-	-	-
pald	-	-	-	-	-	-	-	-	-	-	X	X	X	-	-	-	-	-
pcho	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-
pidn	-	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-
pobr	-	-	-	-	-	-	-	-	X	X	X	X	X	-	-	-	-	-
pply	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X
ptom	-	-	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-
sflx	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X
sger	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-	-	-
sped	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
svir	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-
tahu	-	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	-
tofo	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-	-
vari	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	-	-

Repetabilities biases free

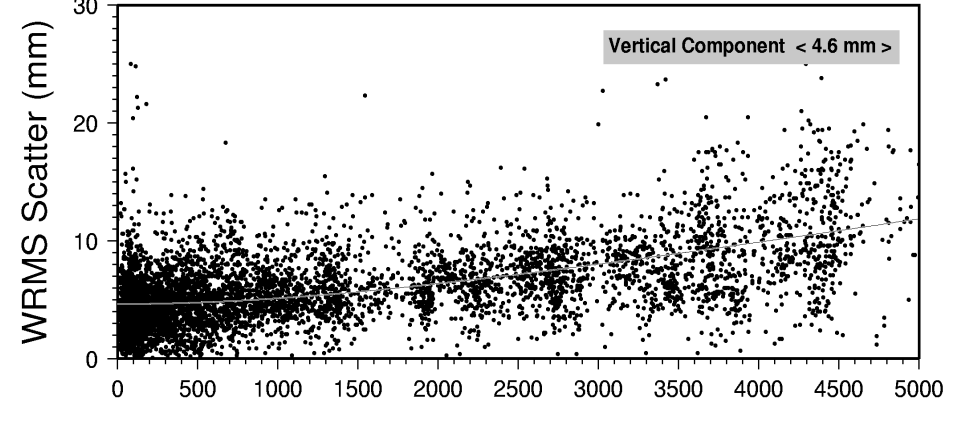
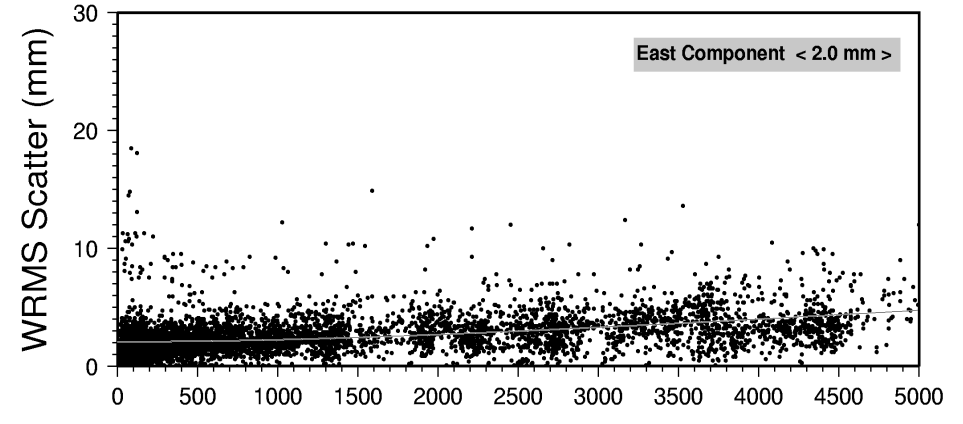
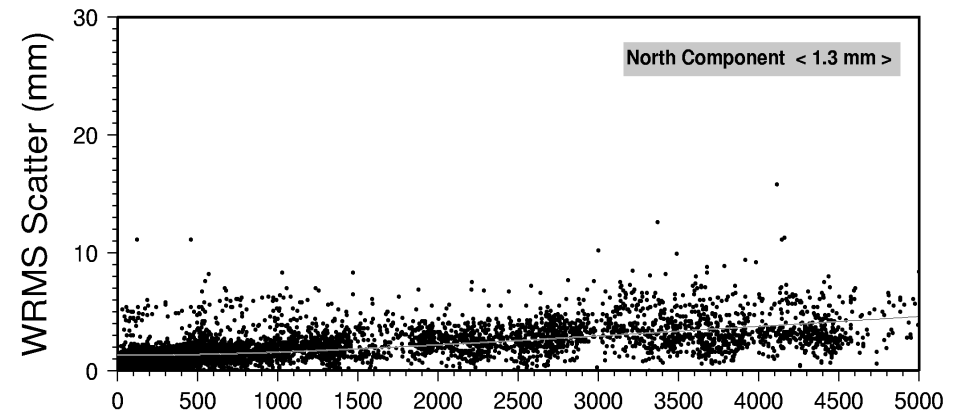
OVALLE 2010_2 - IGS orbits - biases free



Baseline length (km)

Repetabilities biases fixed

OVALLE 2010_2 - IGS orbits - biases fixed



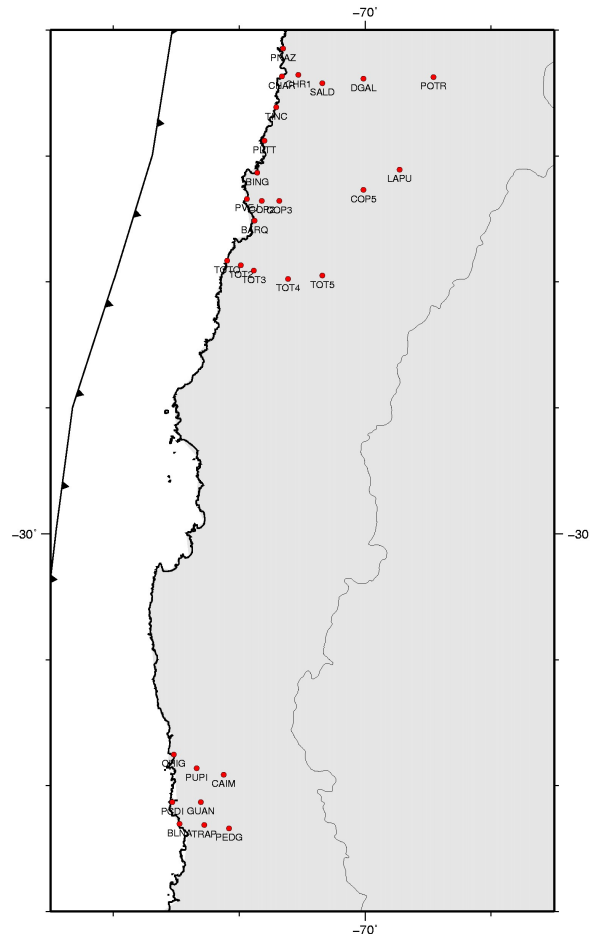
Baseline length (km)

GPS campaign – 2010 – LiA

Station.info source: log sheets
quality : good

Map

DOY 141-154



SITE	Station Name	AntHt	Receiver	Type	Receiver SN	Antenna Type	Antenna SN
SouthOvalle+Totoral+Copiapo+Chanaral+Antofagasta Network June 2010							
BLNA	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321065	ASH701975.01A	7737
CAIM	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321056	ASH701975.01A	7656
CHIG	0.0550	DHPAB	ASHTECH	Z-X	ZE120021207	ASH701975.01A	8940_TP
GUAN	0.0440	DHPAB	ASHTECH	Z-X	ZE120024121	ASH701975.01A	7163
PCDI	0.0440	DHPAB	ASHTECH	Z-X	ZE1200324053	ASH701975.01A	7930
PEDG	0.0440	DHPAB	ASHTECH	Z-X	ZE120024130	ASH701975.01A	7159
PUPI	0.0440	DHPAB	ASHTECH	Z-X	ZE120024307	ASH701975.01A	7192
TRAP	0.0440	DHPAB	ASHTECH	Z-X	ZE120024135	ASH701975.01A	7160

* Totoral/Copiapo/Chanaral Network June 2010							
BARQ	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321056	ASH701975.01A	7656
BING	0.0280	DHPAB	ASHTECH	Z-X	ZE120024121	ASH701975.01A	7163
CHAR	0.0440	DHPAB	ASHTECH	Z-X	ZE120024121	ASH701975.01A	7163
CHR1	0.0440	DHPAB	ASHTECH	Z-X	ZE120024307	ASH701975.01A	7192
COP2	0.0440	DHPAB	ASHTECH	Z-X	ZE120024135	ASH701975.01A	7160
COP3	0.0440	DHPAB	ASHTECH	Z-X	ZE120024307	ASH701975.01A	7192
COP5	0.0440	DHPAB	ASHTECH	Z-X	ZE120024130	ASH701975.01A	7159
DGAL	0.0440	DHPAB	ASHTECH	Z-X	ZE120024130	ASH701975.01A	7159
LAPU	0.0280	DHPAB	ASHTECH	Z-X	ZE1200324053	ASH701975.01A	7930
PLTT	0.0440	DHPAB	ASHTECH	Z-X	ZE120021207	ASH701975.01A	8940
PNAZ	0.0440	DHPAB	ASHTECH	Z-X	ZE120032165	ASH701975.01A	7737
POTR	0.8997	DHPAB	ASHTECH	Z-X	ZE120024135	ASH701975.01A	7160_INSU43
PVEJ	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321065	ASH701975.01A	7737
SALD	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321056	ASH701975.01A	7656
TINC	0.0440	DHPAB	ASHTECH	Z-X	ZE1200348019	ASH701975.01A	8918
TOTO	1.0334	DHPAB	ASHTECH	Z-X	ZE120024130	ASH701975.01A	7159_INSU43
TOT2	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321065	ASH701975.01A	7737
TOT3	0.0440	DHPAB	ASHTECH	Z-X	ZE120024135	ASH701975.01A	7160
TOT4	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321056	ASH701975.01A	7656
TOT5	0.0440	DHPAB	ASHTECH	Z-X	ZE1200324053	ASH701975.01A	7930

Notes / Issues

Julian days : 21 may → 03 june

Season : Winter

GPS weeks : 1584 → 1586

Rinex source : LiA x-ok ; O-deleted

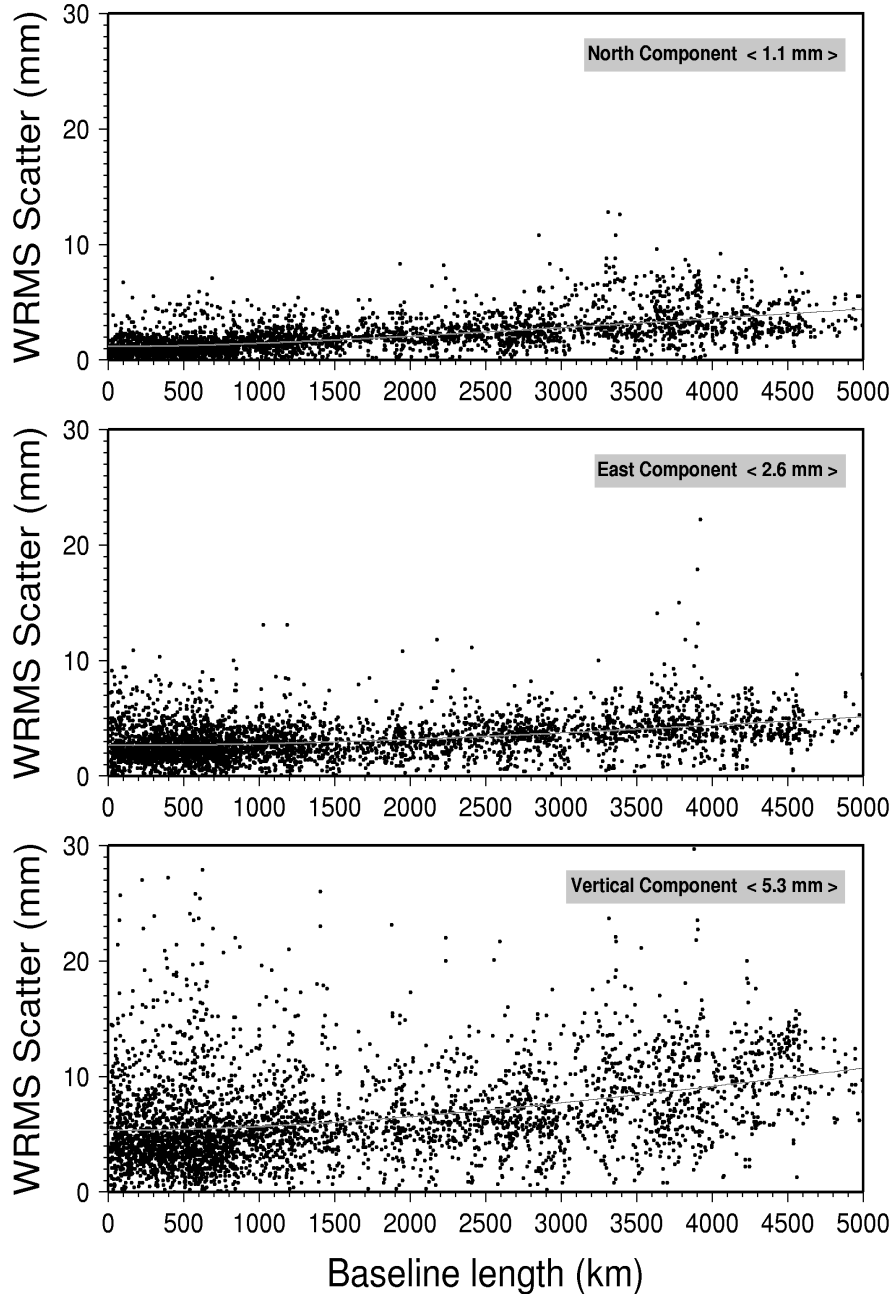
Rinex source : SIO x-ok ; O-deleted

	141	142	143	144	145	146	147	148	149	150	151	152	153	154
blna	-	-	X	X	-	-	-	-	-	-	-	-	-	-
caim	X	X	X	-	-	-	-	-	-	-	-	-	-	-
chig	X	X	X	-	-	-	-	-	-	-	-	-	-	-
guan	-	X	X	-	-	-	-	-	-	-	-	-	-	-
pcdi	-	X	X	-	-	-	-	-	-	-	-	-	-	-
pedg	-	X	X	X	-	-	-	-	-	-	-	-	-	-
pupi	X	X	X	-	-	-	-	-	-	-	-	-	-	-
tilm	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trap	-	-	X	X	-	-	-	-	-	-	-	-	-	-
toto	-	-	-	-	-	X	X	X	-	-	-	-	-	-
tot1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
tot2	-	-	-	-	-	X	X	X	-	-	-	-	-	-
tot3	-	-	-	-	-	-	X	X	-	-	-	-	-	-
tot4	-	-	-	-	-	-	X	X	-	-	-	-	-	-
tot5	-	-	-	-	-	-	X	X	-	-	-	-	-	-
barq	-	-	-	-	-	-	-	-	X	X	-	-	-	-
pvej	-	-	-	-	-	-	-	-	X	X	-	-	-	-
cop2	-	-	-	-	-	-	-	-	X	X	-	-	-	-
cop3	-	-	-	-	-	-	-	X	X	X	-	-	-	-
cop5	-	-	-	-	-	-	-	-	X	X	X	-	-	-
lapu	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bing	-	-	-	-	-	-	X	X	X	X	-	-	-	-
pltt	-	-	-	-	-	-	-	-	X	X	-	-	-	-
tinc	-	-	-	-	-	-	-	-	X	X	X	X	-	-
char	-	-	-	-	-	-	-	-	-	X	-	X	X	-
chr1	-	-	-	-	-	-	-	-	-	X	X	X	-	-
sald	-	-	-	-	-	-	-	-	-	-	X	X	-	-
dgal	-	-	-	-	-	-	-	-	-	-	-	X	-	-
potr	-	-	-	-	-	-	-	-	-	X	X	X	-	-
pnaz	-	-	-	-	-	-	-	-	-	X	X	X	-	-
antc	X	X	X	X	X	X	X	X	X	X	X	X	X	X
areq	X	X	X	X	X	X	X	X	X	X	X	X	X	X
braz	X	X	X	X	X	X	X	X	X	X	X	X	X	X
brft	X	X	X	X	X	X	X	X	X	X	X	X	X	X
kour	-	-	-	X	X	X	X	X	-	X	X	X	X	X
lpgs	X	X	X	X	X	X	X	X	X	X	X	X	X	X
sant	X	X	X	X	X	X	X	X	X	X	X	X	X	X
rio2	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ispa	X	X	X	X	X	X	X	X	X	X	X	X	X	X
glps	X	X	X	X	X	X	X	X	X	X	X	X	X	-
copo	X	X	X	X	X	X	X	X	X	X	X	X	X	X
conz	X	X	X	X	X	X	X	X	X	X	X	X	X	X
lhcl	X	X	X	X	X	X	X	X	X	X	X	X	X	X
tucu	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ufpr	X	X	X	X	X	X	X	X	X	X	X	X	X	X
chpi	X	X	X	X	X	X	X	X	X	X	X	X	X	X
cfag	X	X	X	X	X	X	X	X	X	X	X	X	X	X
unsa	X	X	X	X	X	X	X	X	X	X	X	X	X	X
alum	X	X	X	X	X	X	X	X	X	X	X	X	X	X
azul	X	X	X	X	X	X	X	X	X	X	X	X	X	X

	141	142	143	144	145	146	147	148	149	150	151	152	153	154
cata	X	X	X	X	X	X	X	X	X	X	X	X	X	X
esqu	X	X	X	X	X	X	X	X	X	X	X	X	X	X
mzac	X	X	X	X	X	X	X	X	X	X	X	X	X	X
mzae	X	X	X	X	X	X	X	X	X	X	X	X	X	X
mzas	X	X	X	X	X	X	X	X	X	X	X	X	X	X
srlp	X	X	X	X	X	X	X	X	X	X	X	X	X	X
sl01	X	X	X	X	X	X	X	X	X	X	X	X	X	X
tero	X	X	X	X	X	X	X	X	X	X	X	X	X	X
tucl	X	X	X	X	X	X	X	X	-	-	X	X	X	X
ucor	X	X	-	X	-	-	-	X	X	X	X	X	X	X
unro	X	X	X	X	X	X	X	X	X	X	X	X	X	X
unsj	X	-	X	X	X	X	X	X	X	X	X	X	X	X
vbca	X	X	X	X	X	X	X	X	X	X	X	X	X	X
cuib	X	X	X	X	X	X	X	X	X	X	X	X	X	X
maba	X	X	X	X	X	-	X	X	X	X	X	X	X	X
naus	X	X	X	X	X	X	X	X	X	X	X	X	X	X
poal	X	X	X	X	X	X	X	X	X	X	X	X	X	X
pove	X	X	X	X	X	X	X	X	X	X	X	X	X	X
savo	X	X	X	X	X	X	X	X	X	X	X	X	X	X
topl	X	X	X	X	X	X	X	X	X	X	X	X	X	X
mtco	X	X	X	X	X	X	X	X	X	X	X	X	X	X
salu	-	-	-	-	-	-	X	X	X	X	X	X	X	X
batf	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ceeu	X	X	X	X	X	X	X	X	X	X	X	X	X	X
maul	X	X	X	X	X	X	X	X	X	X	X	X	X	X
cons	X	X	X	X	X	X	X	X	X	X	X	X	X	X
rcsd	X	X	X	X	X	X	X	X	X	X	X	X	X	X
dgfl	X	X	X	X	X	X	X	X	X	X	X	X	X	X
valn	X	X	X	X	X	X	X	X	X	X	X	X	X	X
robl	X	X	X	X	X	X	X	X	X	X	X	X	X	X
port	X	X	X	X	X	X	X	X	X	X	X	X	X	X
lvil	X	X	X	X	X	X	X	X	X	X	X	X	X	X
slmc	X	X	X	X	X	X	X	X	X	X	X	X	X	X
cnba	X	X	X	X	X	X	X	X	X	X	X	X	X	X
cmba	X	X	X	X	X	X	X	X	X	X	X	X	X	X
emat	X	X	X	X	X	X	X	X	X	X	X	X	X	X
pfrj	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ovll	X	X	X	X	X	X	X	X	X	X	X	X	X	X
bton	X	X	X	X	X	X	X	X	X	X	X	X	X	X
tolo	X	X	X	X	X	X	X	X	X	X	X	X	X	X
junt	X	X	X	X	X	X	X	X	X	X	X	X	X	X
lsch	X	X	X	X	X	X	X	X	X	X	X	X	X	X
sill	X	X	X	X	X	X	X	X	X	X	X	X	X	X
crzl	X	X	X	X	X	X	X	X	X	X	X	X	X	X
vall	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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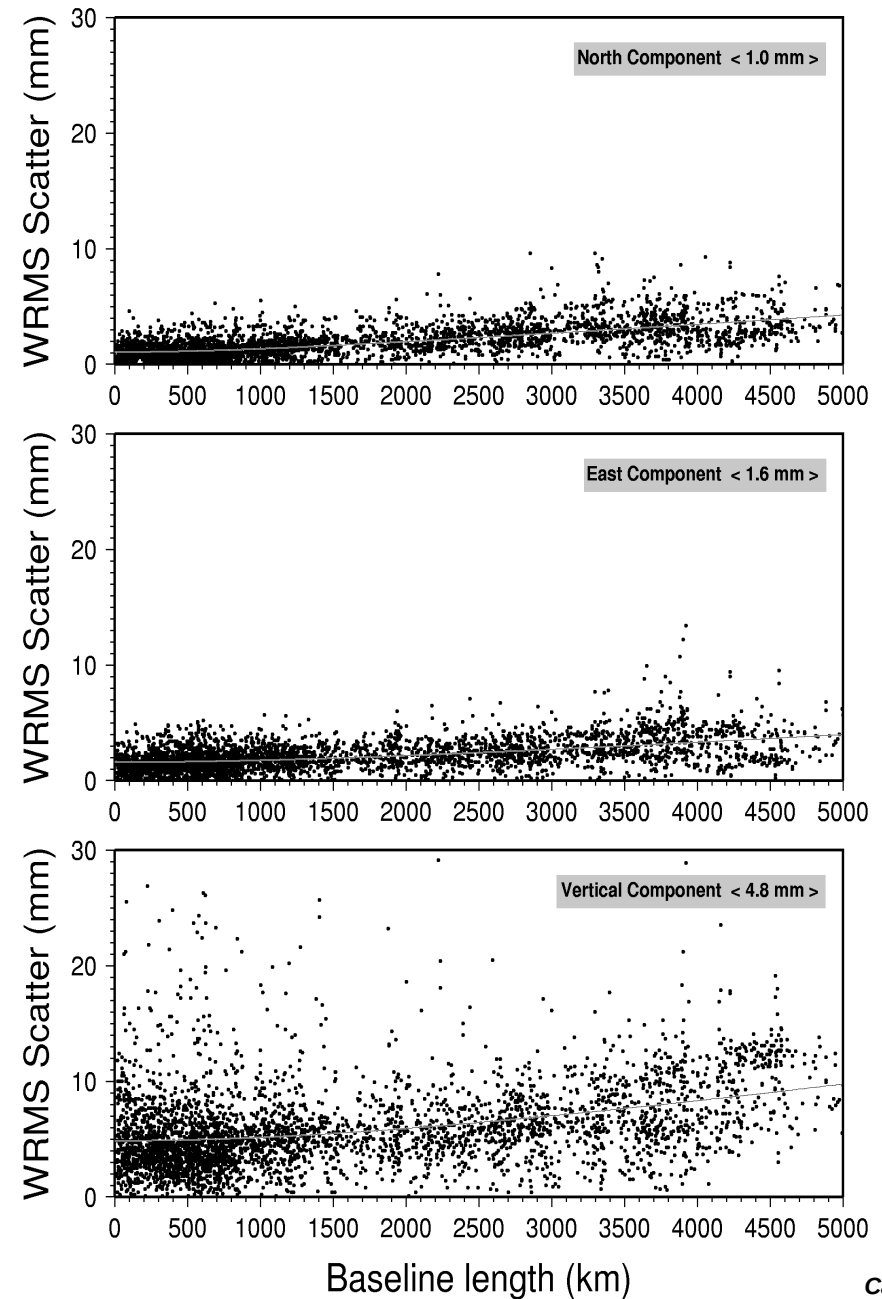
Repetabilities biases free

NCHICO 2010 - IGS orbits - biases free



Repetabilities biases fixed

NCHICO 2010 - IGS orbits - biases fixed

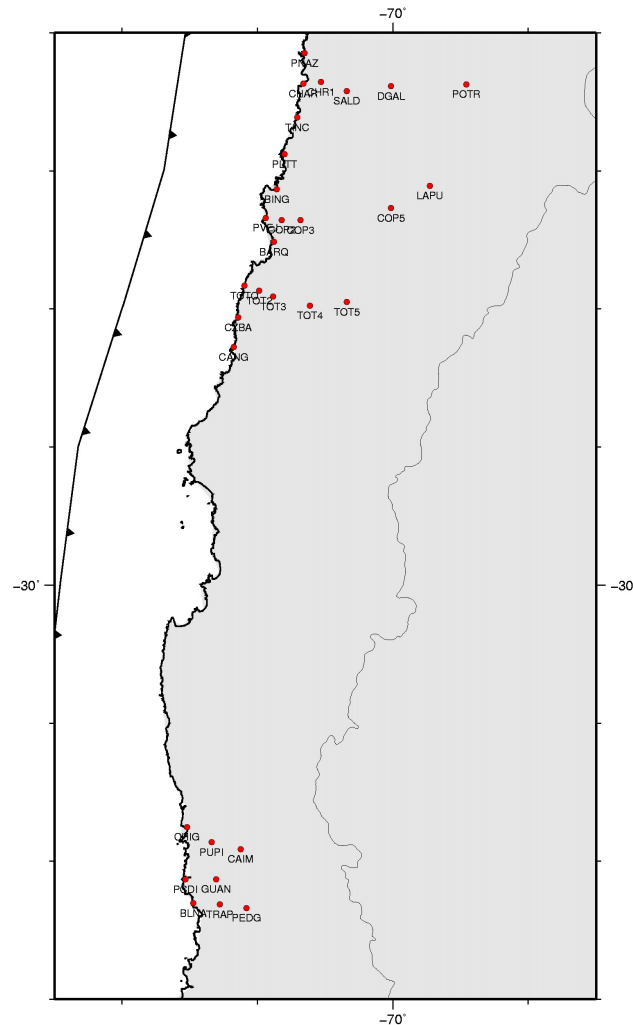


GPS campaign – 2011 – LiA

Station.info source: log sheets
quality : good

Map

DOY 133-144



Julian days : 13 may → 24 june

Season : Winter

GPS weeks : 1635 → 1637

SITE	Station Name	AntHt	Receiver	Type	Receiver SN	Antenna Type	Antenna SN
SouthOvalle+Totoral+Copiapo+Chanaral+Antofagasta Network June 2010							
BLNA	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321065	ASH701975.01A	7737
CAIM	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321056	ASH701975.01A	7656
CHIG	0.0550	DHPAB	ASHTECH	Z-X	ZE120021207	ASH701975.01A	8940_TP
GUAN	0.0440	DHPAB	ASHTECH	Z-X	ZE120024121	ASH701975.01A	7163
PCDI	0.0440	DHPAB	ASHTECH	Z-X	ZE1200324053	ASH701975.01A	7930
PEDG	0.0440	DHPAB	ASHTECH	Z-X	ZE120024130	ASH701975.01A	7159
PUPI	0.0440	DHPAB	ASHTECH	Z-X	ZE120024307	ASH701975.01A	7192
TRAP	0.0440	DHPAB	ASHTECH	Z-X	ZE120024135	ASH701975.01A	7160

* Totoral/Copiapo/Chanaral Network June 2010							
BARQ	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321056	ASH701975.01A	7656
BING	0.0280	DHPAB	ASHTECH	Z-X	ZE120024121	ASH701975.01A	7163
CHAR	0.0440	DHPAB	ASHTECH	Z-X	ZE120024121	ASH701975.01A	7163
CHR1	0.0440	DHPAB	ASHTECH	Z-X	ZE120024307	ASH701975.01A	7192
COP2	0.0440	DHPAB	ASHTECH	Z-X	ZE120024135	ASH701975.01A	7160
COP3	0.0440	DHPAB	ASHTECH	Z-X	ZE120024307	ASH701975.01A	7192
COP5	0.0440	DHPAB	ASHTECH	Z-X	ZE120024130	ASH701975.01A	7159
DGAL	0.0440	DHPAB	ASHTECH	Z-X	ZE120024130	ASH701975.01A	7159
LAPU	0.0280	DHPAB	ASHTECH	Z-X	ZE1200324053	ASH701975.01A	7930
PLTT	0.0440	DHPAB	ASHTECH	Z-X	ZE120021207	ASH701975.01A	8940
PNAZ	0.0440	DHPAB	ASHTECH	Z-X	ZE120032165	ASH701975.01A	7737
POTR	0.8997	DHPAB	ASHTECH	Z-X	ZE120024135	ASH701975.01A	7160_INSU43
PVEJ	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321065	ASH701975.01A	7737
SALD	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321056	ASH701975.01A	7656
TINC	0.0440	DHPAB	ASHTECH	Z-X	ZE1200348019	ASH701975.01A	8918
TOTO	1.0334	DHPAB	ASHTECH	Z-X	ZE120024130	ASH701975.01A	7159_INSU43
TOT2	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321065	ASH701975.01A	7737
TOT3	0.0440	DHPAB	ASHTECH	Z-X	ZE120024135	ASH701975.01A	7160
TOT4	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321056	ASH701975.01A	7656
TOT5	0.0440	DHPAB	ASHTECH	Z-X	ZE1200324053	ASH701975.01A	7930

Notes / Issues

Rinex source : LiA x-ok ; O-deleted

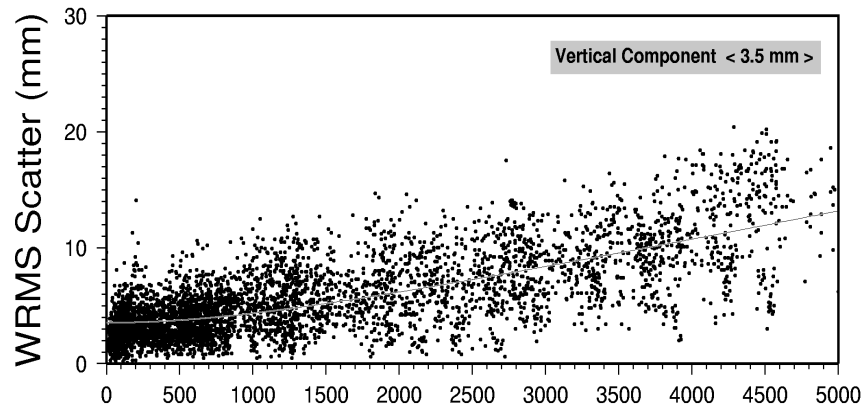
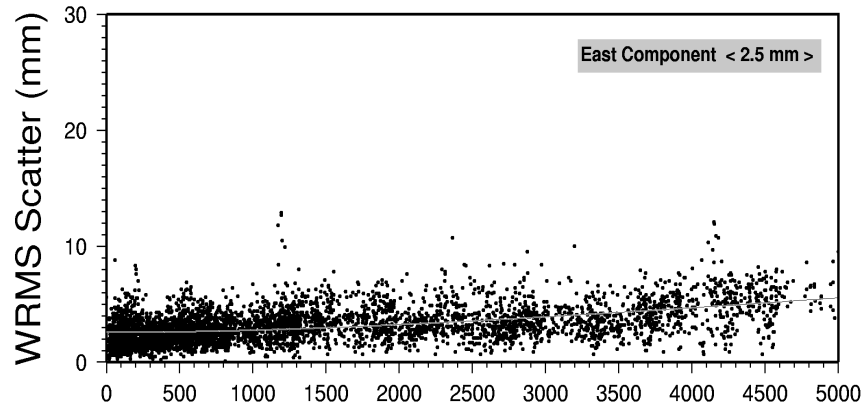
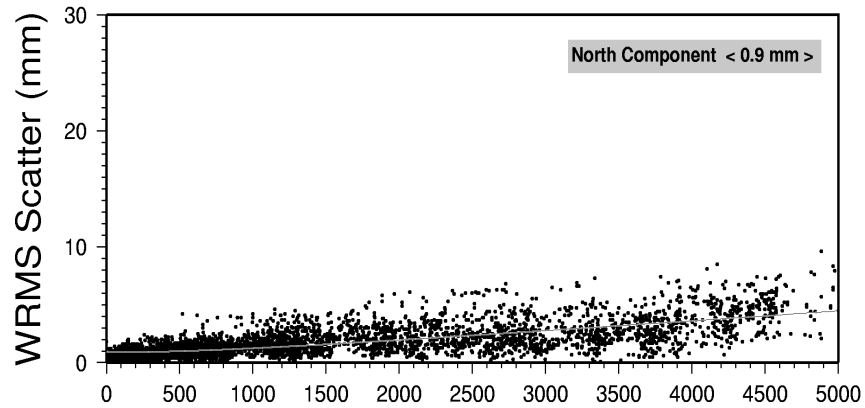
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blna	-	X	X	X	X	-	-	-	-	-	-	-
caim	-	X	X	X	X	-	-	-	-	-	-	-
chig	X	X	X	X	X	-	-	-	-	-	-	-
guan	-	X	X	X	X	-	-	-	-	-	-	-
pcdi	-	X	X	X	X	-	-	-	-	-	-	-
pedg	-	X	X	X	X	-	-	-	-	-	-	-
pupi	X	X	X	X	X	-	-	-	-	-	-	-
tilm	-	X	X	X	X	-	-	-	-	-	-	-
trap	-	X	-	X	X	-	-	-	-	-	-	-
toto	-	-	-	-	-	-	X	X	X	X	X	-
tot1	-	-	-	-	-	-	-	-	-	-	-	-
tot2	-	-	-	-	-	-	X	X	X	X	X	-
tot3	-	-	-	-	-	-	X	X	X	X	-	-
tot4	-	-	-	-	-	-	X	X	X	X	-	-
tot5	-	-	-	-	-	-	X	X	X	X	-	-
barq	-	-	-	-	-	-	X	X	X	X	X	-
pvej	-	-	-	-	-	-	-	X	X	X	X	-
cop2	-	-	-	-	-	-	-	X	X	X	X	-
cop3	-	-	-	-	-	-	-	X	X	X	X	-
cop5	-	-	-	-	-	-	-	X	X	X	X	-
lapu	-	-	-	-	-	-	-	X	X	X	X	-
bing	-	-	-	-	-	-	-	X	X	X	X	o
pltt	-	-	-	-	-	-	-	-	X	X	X	X
tinc	-	-	-	-	-	-	-	-	X	X	X	X
char	-	-	-	-	-	-	-	-	X	X	X	X
chr1	-	-	-	-	-	-	-	-	X	X	X	X
sald	-	-	-	-	-	-	-	-	X	X	X	X
dgal	-	-	-	-	-	-	-	-	X	X	X	X
potr	-	-	-	-	-	-	-	-	X	X	X	X
pnaz	-	-	-	-	-	-	-	-	X	X	X	X
cang	-	-	-	-	-	-	X	X	X	X	X	-
czba	-	-	-	-	-	-	X	X	X	X	o	-
antc	X	X	X	X	X	X	X	X	X	X	X	X
areq	X	X	X	X	X	X	X	X	X	X	X	X
braz	X	X	X	X	X	X	-	-	X	X	X	X
brft	X	X	X	X	X	X	X	X	X	X	X	X
kour	X	X	X	X	X	X	X	X	X	X	X	X
lpgs	X	X	X	X	X	X	X	X	X	X	X	X
sant	X	X	X	X	X	X	X	X	X	X	X	X
rio2	X	X	X	X	X	X	X	X	X	X	X	X
ispa	X	X	X	X	X	X	X	X	X	X	X	X
copo	X	X	X	X	X	X	X	X	X	X	X	X
conz	X	X	X	X	X	X	X	X	X	X	X	X
lhcl	X	X	X	X	X	X	X	X	X	X	X	X
tucu	X	X	X	X	X	X	X	X	X	X	X	X
ufpr	X	X	X	X	X	X	X	X	X	X	X	X
chpi	X	X	X	X	X	X	X	X	X	X	X	X
unsa	X	X	X	X	X	X	X	X	X	X	X	o
alum	X	X	X	X	X	X	X	X	X	X	X	X
azul	X	X	X	X	X	X	X	X	X	X	X	X

Rinex source : SIO x-ok ; O-deleted

	133	134	135	136	137	138	139	140	141	142	143	144
cata	X	X	X	X	X	X	X	X	X	X	X	X
esqu	X	X	X	-	-	X	X	X	X	X	X	X
meco	X	X	X	X	X	X	X	X	X	X	X	X
ma01	X	X	X	X	X	X	X	X	X	X	X	X
mzac	X	X	X	X	X	X	X	X	X	X	X	X
mzae	X	X	X	X	X	X	X	X	X	X	X	X
rwsn	X	X	X	X	X	X	X	X	X	X	X	X
srlp	X	X	X	X	X	X	X	X	X	X	X	X
sl01	X	X	X	X	X	X	X	X	X	X	X	X
tero	X	X	X	X	X	X	X	X	X	X	X	X
tuc1	X	X	X	X	X	X	X	X	X	X	X	X
ucor	X	X	X	X	X	X	X	X	X	X	X	X
unro	X	X	X	X	X	X	X	X	X	X	X	X
unsj	X	X	X	X	X	X	X	X	X	X	X	X
vbca	X	X	X	X	X	X	X	X	X	X	X	X
cuib	X	X	X	X	X	X	X	X	X	X	X	X
maba	X	X	X	X	X	X	X	X	X	X	X	X
mscg	X	X	X	X	X	X	X	X	X	X	X	X
naus	X	X	X	X	X	X	X	X	X	X	X	X
poal	X	X	X	X	X	X	X	X	X	X	X	X
pove	X	X	X	X	X	X	X	X	X	X	X	X
savo	X	X	X	X	X	X	X	X	X	X	X	X
topl	X	X	X	X	X	X	X	X	X	X	X	X
mtco	X	X	X	X	X	X	X	X	X	X	X	X
salu	X	X	X	X	X	X	X	X	X	X	X	X
batf	X	X	X	X	X	X	X	X	X	X	X	X
ceeu	X	X	X	X	X	X	X	X	X	X	X	X
cons	X	X	X	X	X	X	X	X	X	X	X	X
rcsd	X	X	X	X	X	X	X	X	X	X	X	X
dgfl	X	X	X	X	X	X	X	X	X	X	X	X
valn	X	X	X	X	X	X	X	X	X	X	X	X
robl	X	X	X	X	X	X	X	X	X	X	X	X
port	X	X	X	X	X	X	X	X	X	X	X	X
lvil	X	X	X	X	X	X	X	X	X	X	X	X
slmc	X	X	X	X	X	X	X	X	X	X	X	X
cnba	X	X	X	X	X	X	X	X	X	X	X	X
cmba	X	X	X	X	X	X	X	X	X	X	X	X
emat	X	X	X	X	X	X	X	X	X	X	X	X
pedr	X	X	X	X	X	X	X	X	X	X	X	X
pfrj	X	X	X	X	X	X	X	X	X	X	X	X
ovll	X	X	X	X	X	X	X	X	X	X	X	X
bton	X	X	X	X	X	X	X	X	X	X	X	X
tolo	X	X	X	X	X	X	X	X	X	X	X	X
junt	X	X	X	X	X	X	X	X	X	X	X	X
lsch	X	X	X	X	X	X	X	X	X	X	X	X
sill	X	X	X	X	X	X	X	X	X	X	X	X
crzl	X	X	X	X	X	X	X	X	X	X	X	X
vall	X	X	X	X	X	X	X	X	X	X	X	X

Repetabilities biases free

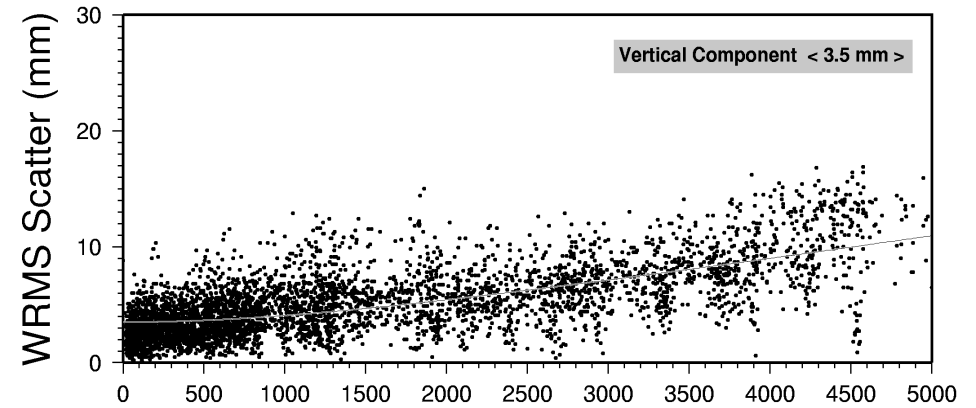
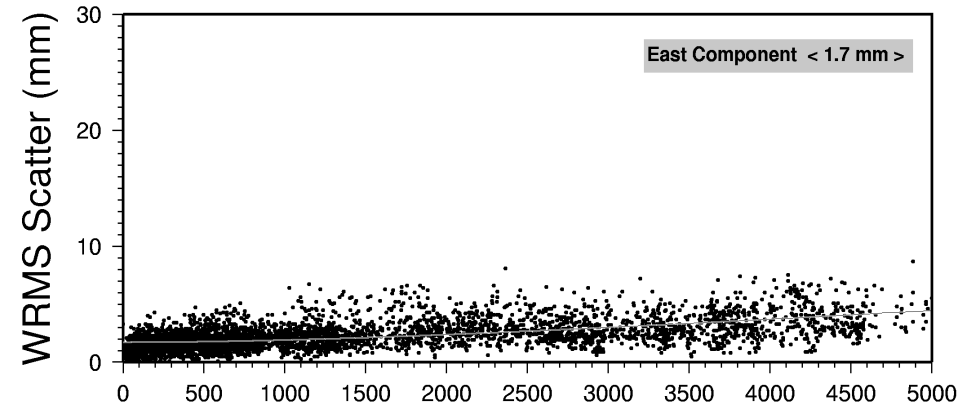
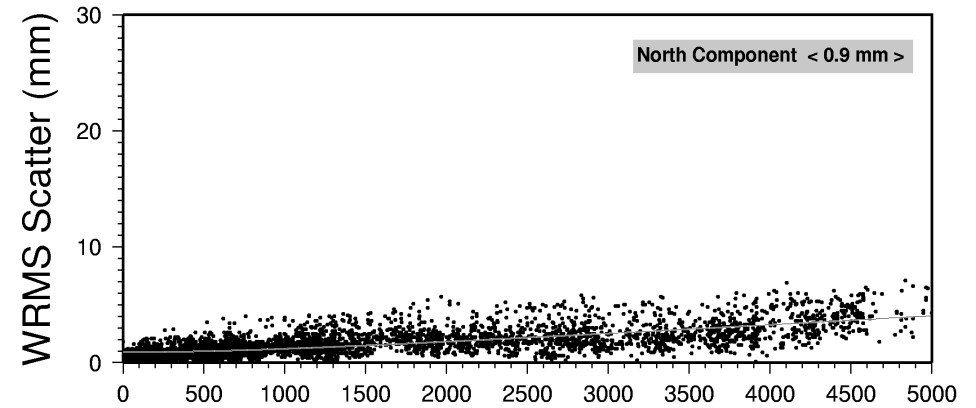
NCHICO 2011 – IGS orbits – biases free



Baseline length (km)

Repetabilities biases fixed

NCHICO 2011 – IGS orbits – biases fixed



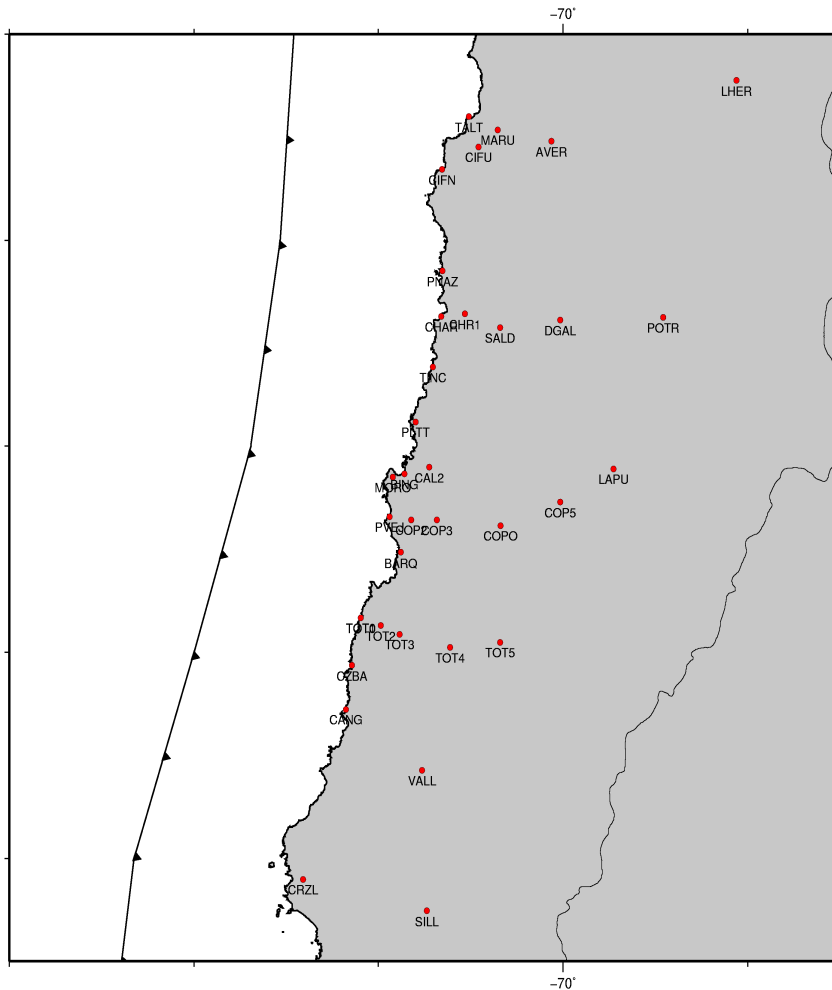
Baseline length (km)

GPS campaign – 2012 – LiA

Station.info source: log sheets
quality : good

Map

DOY 169-183



SITE	Station Name	AntHt	Receiver	Type	Receiver SN	Antenna Type	Antenna SN	*
Tatorial+Copiapo+Chanaral+Taltal Network June 2012								
BARQ	0.0440	DHPAB	ASHTECH	Z-X	ZE120023821	ASH701975.01A	8724	
BING	0.0280	DHPAB	ASHTECH	Z-X	ZE1200321056	ASH701975.01A	7656	
CANG	0.0440	DHPAB	ASHTECH	Z-X	ZE120024130	ASH701975.01A	7159	
CZBA	0.0440	DHPAB	ASHTECH	Z-X	ZE1200452012	ASH701975.01A	7467	
CHAR	0.0440	DHPAB	ASHTECH	Z-X	ZE120024130	ASH701975.01A	7159	
CHR1	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321065	ASH701975.01A	7737	
COP2	0.0440	DHPAB	ASHTECH	Z-X	ZE120020320	ASH701975.01A	7914	
COP3	0.0440	DHPAB	ASHTECH	Z-X	ZE1200342014	ASH701975.01A	8807	
COP5	0.0440	DHPAB	ASHTECH	Z-X	ZE120024121	ASH701975.01A	7163	
DGAL	0.0440	DHPAB	ASHTECH	Z-X	ZE120023821	ASH701975.01A	8724	
LAPU	0.0280	DHPAB	ASHTECH	Z-X	ZE120024135	ASH701975.01A	7160	
PLTT	0.0440	DHPAB	ASHTECH	Z-X	ZE120024307	ASH701975.01A	7192	
PNAZ	0.0680	DHPAB	ASHTECH	Z-X	ZE1200348014	ASH701975.01A	8807	
POTR	1.1167	DHPAB	ASHTECH	Z-X	ZE120020320	ASH701975.01A	7914_LIA5	
PVEJ	0.0440	DHPAB	ASHTECH	Z-X	ZE1200526051	ASH701975.01A	8374	
SALD	0.0440	DHPAB	ASHTECH	Z-X	ZE1200526051	ASH701975.01A	8374	
TINC	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321056	ASH701975.01A	7656	
TOT0	0.1230	DHPAB	ASHTECH	Z-X	ZE1200452012	ASH701975.01A	7467	
TOT1	0.0440	DHPAB	ASHTECH	Z-X	ZE1200348005	ASH701975.01A	8764	
TOT2	0.0440	DHPAB	ASHTECH	Z-X	ZE1200348008	ASH701975.01A	6010	
TOT3	0.0440	DHPAB	ASHTECH	Z-X	ZE1200452004	ASH701975.01A	7913	
TOT4	0.0440	DHPAB	ASHTECH	Z-X	ZE1200452020	ASH701975.01A	8918	
TOT5	0.0440	DHPAB	ASHTECH	Z-X	ZE1200348006	ASH701975.01A	7112	
* Taltal + new markers								
AVER	0.0440	DHPAB	ASHTECH	Z-X	ZE1200452012	ASH701975.01A	7467	
BAR2	0.0440	DHPAB	ASHTECH	Z-X	-----	ASH701975.01A	----	
CAL2	0.0440	DHPAB	ASHTECH	Z-X	ZE120024307	ASH701975.01A	7192	
CANT	0.0440	DHPAB	ASHTECH	Z-X	-----	ASH701975.01A	----	
CIFN	0.0440	DHPAB	ASHTECH	Z-X	ZE1200452020	ASH701975.01A	8918	
CIFU	1.1318	DHPAB	ASHTECH	Z-X	ZE120024121	ASH701975.01A	7163_LIA2	
LHER	0.0280	DHPAB	ASHTECH	Z-X	ZE1200452004	ASH701975.01A	7913	
MARU	0.0440	DHPAB	ASHTECH	Z-X	ZE120024135	ASH701975.01A	7160	
MORO	0.0440	DHPAB	ASHTECH	Z-X	ZE1200321065	ASH701975.01A	7737	
TALT	0.0280	DHPAB	ASHTECH	Z-X	ZE1200348006	ASH701975.01A	7112	

Notes / Issues

- bulletin A used for processing
- precise IGS orbits except for DOY 183
- some DGF-LiA stations not available for processing

Julian days : 17 june → 01 july

Season : Winter

GPS weeks : 1693 → 1695

Rinex source : LiA x-ok ; O-deleted

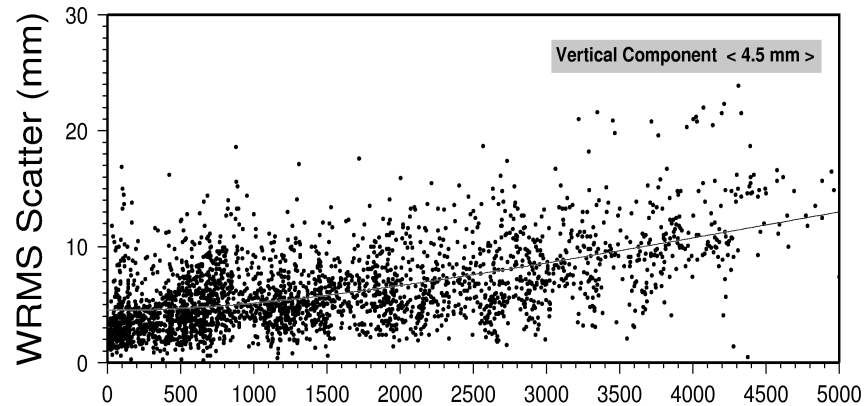
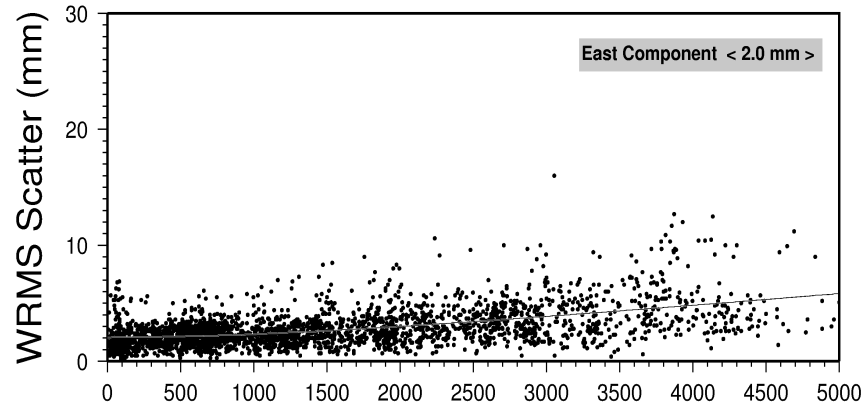
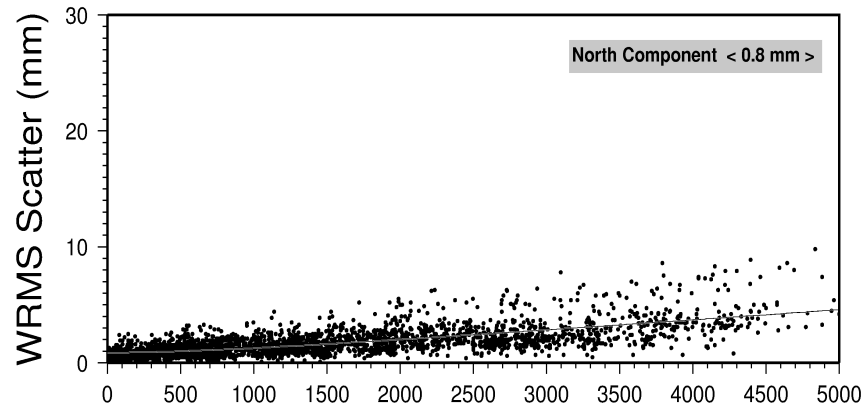
Rinex source : SIO x-ok ; O-deleted

	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183
tot0	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-
tot1	-	X	X	X	X	X	-	-	-	-	-	-	-	-	-
tot2	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-
tot3	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-
tot4	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-
tot5	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-
barq	-	X	X	X	X	X	X	-	-	-	-	-	-	-	-
pvej	-	X	X	X	X	X	X	-	-	-	-	-	-	-	-
cop2	-	X	X	X	X	X	X	-	-	-	-	-	-	-	-
cop3	-	X	X	X	X	X	X	-	-	-	-	-	-	-	-
cop5	-	-	X	X	X	X	-	-	-	-	-	-	-	-	-
lapu	-	-	X	X	X	X	X	-	-	-	-	-	-	-	-
bing	-	X	X	X	X	X	X	-	-	-	-	-	-	-	-
pltt	-	-	-	-	-	X	X	X	X	X	X	X	X	-	-
tinc	-	-	-	-	-	X	X	X	X	X	X	X	X	X	-
char	-	-	-	-	-	-	X	X	X	X	X	X	X	-	-
chr1	-	-	-	-	-	-	X	X	X	X	X	X	X	-	-
sald	-	-	-	-	-	-	X	X	X	X	X	X	X	-	-
dgal	-	-	-	-	-	-	X	X	X	X	X	X	X	-	-
potr	-	-	-	-	-	-	X	X	X	X	X	X	X	-	-
pnaz	-	-	-	-	-	-	-	X	X	X	X	X	X	X	X
cang	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-
czba	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-
aver	-	-	-	-	-	-	-	-	-	-	X	X	X	-	-
cal2	-	-	-	X	X	X	X	-	-	-	-	-	-	-	-
cifn	-	-	-	-	-	-	-	-	-	X	X	X	X	X	X
cifu	-	-	-	-	-	-	-	-	X	X	X	X	X	X	X
lher	-	-	-	-	-	-	-	-	-	X	X	X	X	-	-
maru	-	-	-	-	-	-	-	-	X	X	X	X	X	X	X
moro	-	-	-	X	X	X	X	-	-	-	-	-	-	-	-
talt	-	-	-	-	-	-	-	X	X	X	X	X	X	X	X
tot0	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-
antc	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
areq	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
braz	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
brft	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
kour	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
lpgs	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
sant	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
rio2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ispa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
glps	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
copo	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
conz	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
lhcl	-	-	-	-	-	-	-	-	-	-	-	X	X	X	-
tucu	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ufpr	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
chpi	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

alum	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
azul	X	X	X	X	X	X	X	X	X	-	-	-	X	X	X
cata	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
esqu	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
meco	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X
ma01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
mzac	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
mzae	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
rwsn	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
srlp	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
sl01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
tero	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ucor	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
unro	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
unsj	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
vbca	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X
cuib	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
mscg	X	X	X	-	-	-	-	-	X	X	X	X	X	X	X
naus	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
poal	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
pove	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
savo	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
topl	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
mtco	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
salu	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
batf	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-
rcsd	X	-	X	X	-	-	-	-	-	-	-	-	-	-	-
dgfl	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
valn	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
port	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
slmc	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
bton	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
tolo	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
lsch	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
sill	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
crzl	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
vall	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Repetabilities biases free

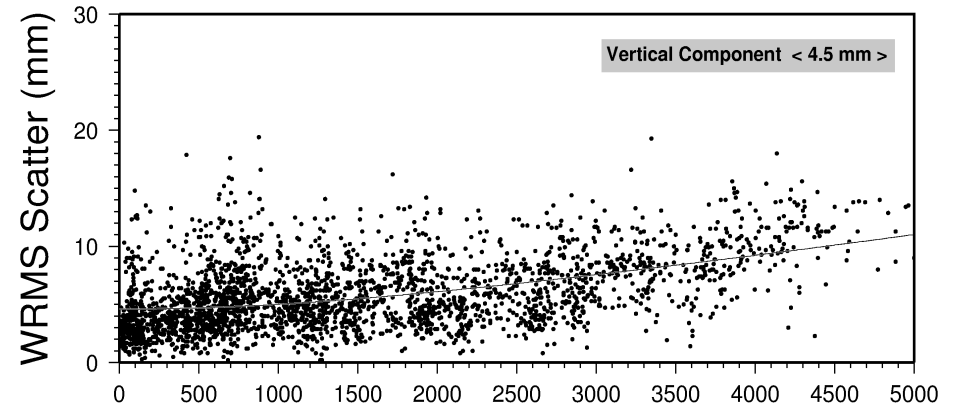
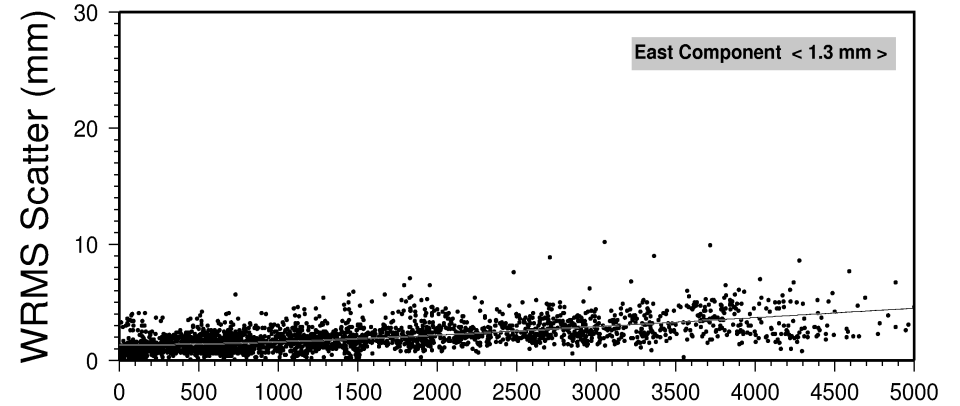
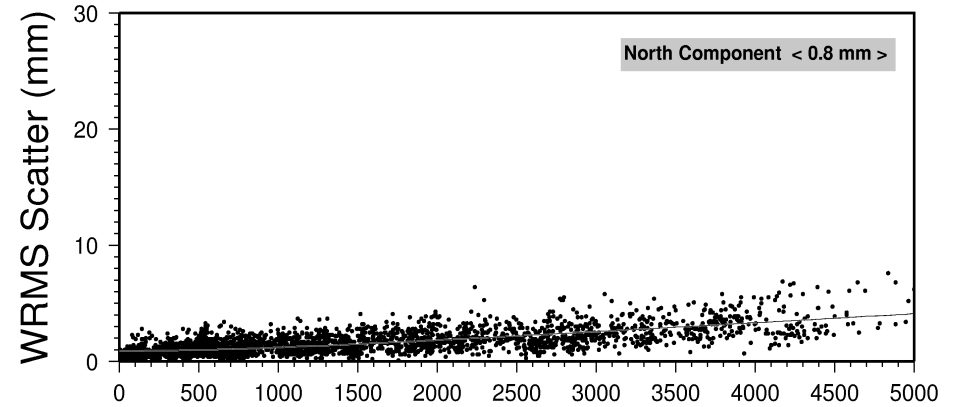
NCHICO 2012 – IGS orbits – biases free



Baseline length (km)

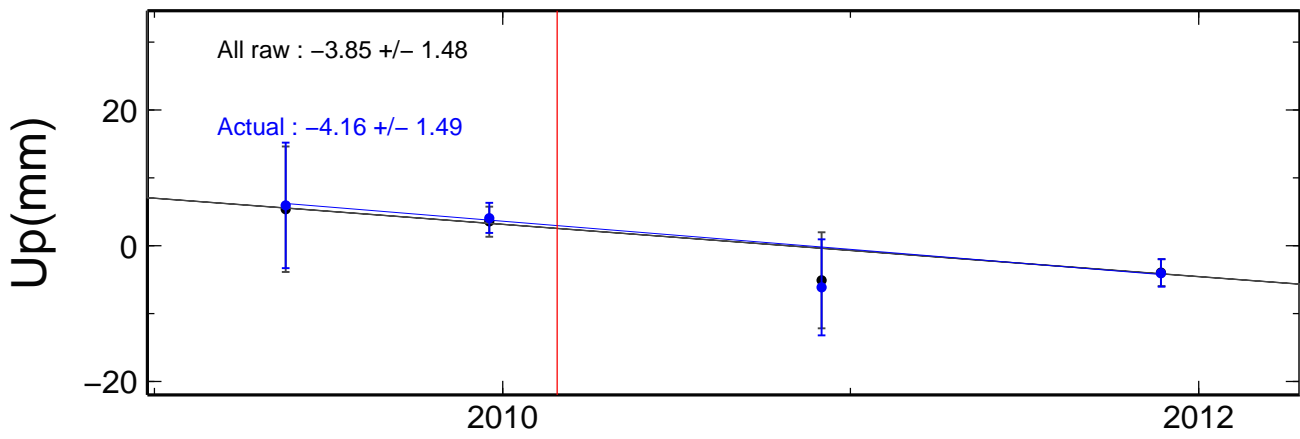
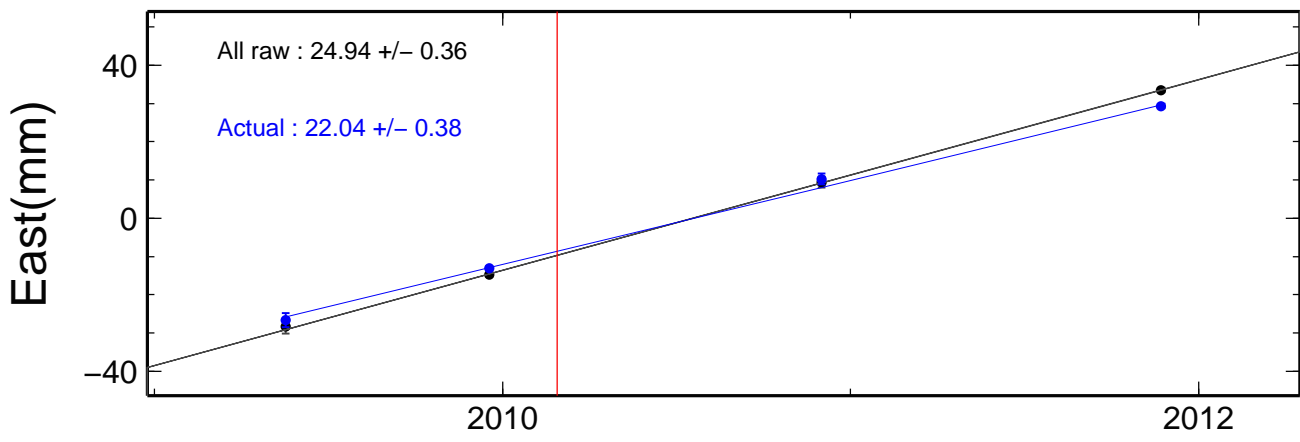
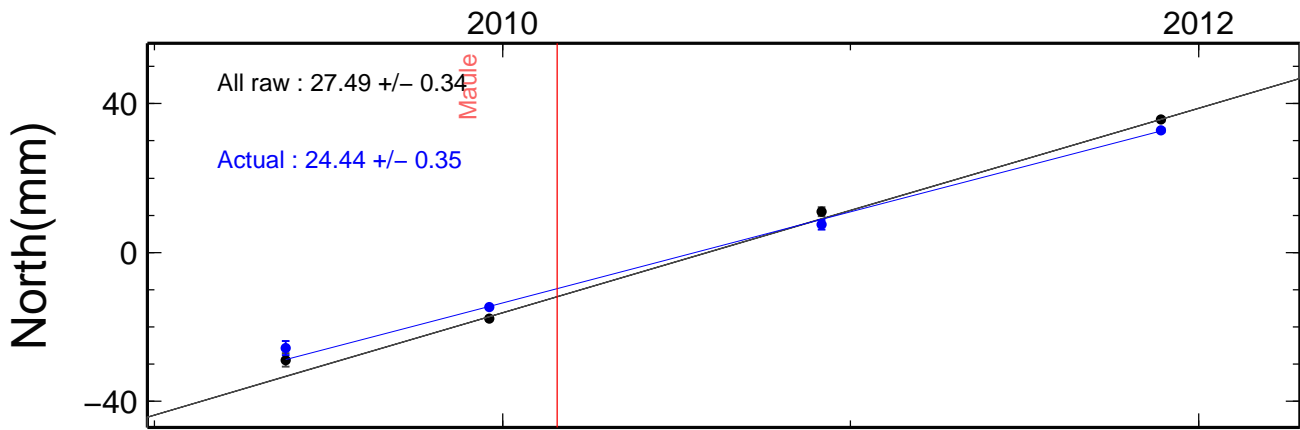
Repetabilities biases fixed

NCHICO 2012 – IGS orbits – biases fixed



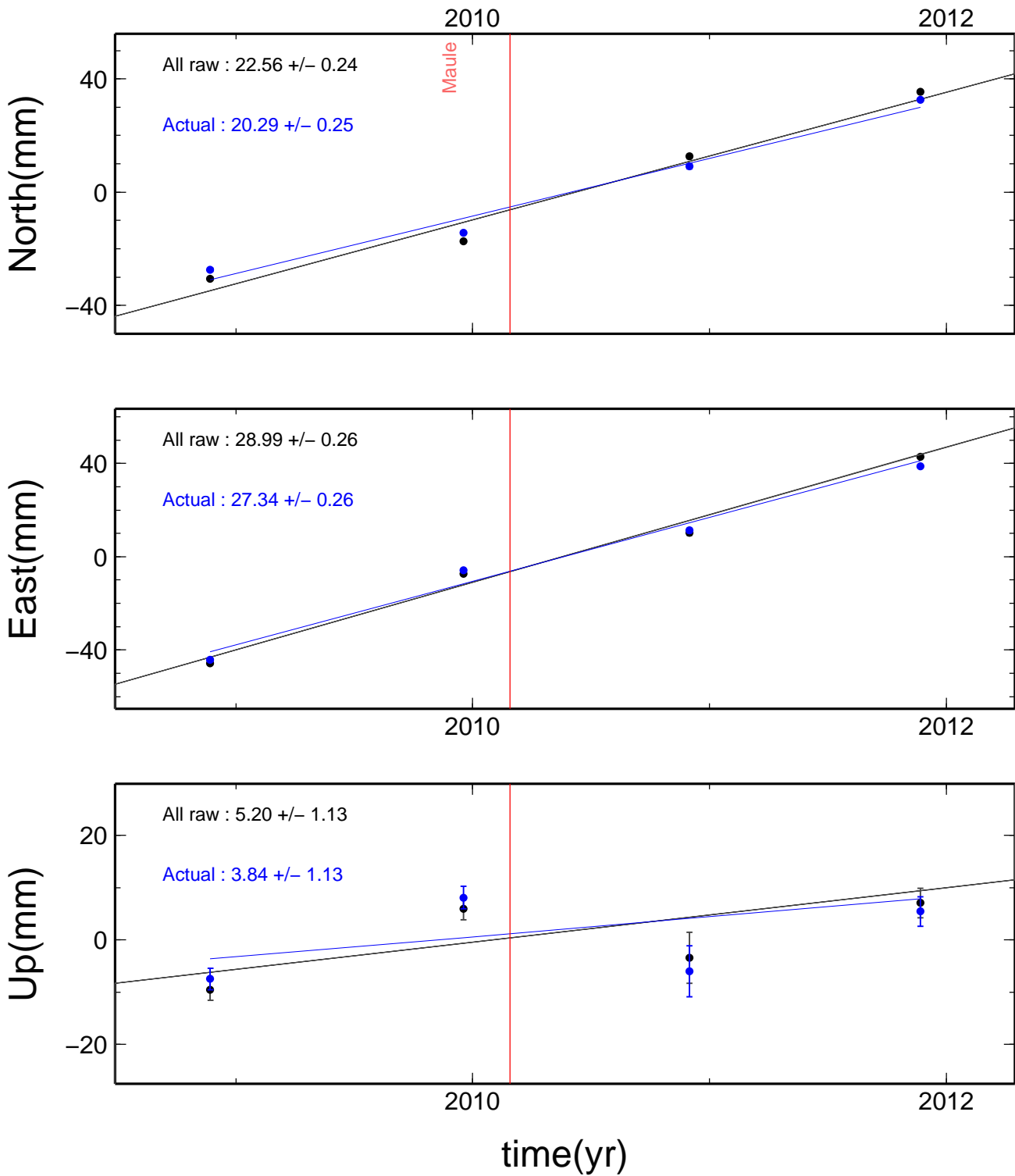
Baseline length (km)

3CRX

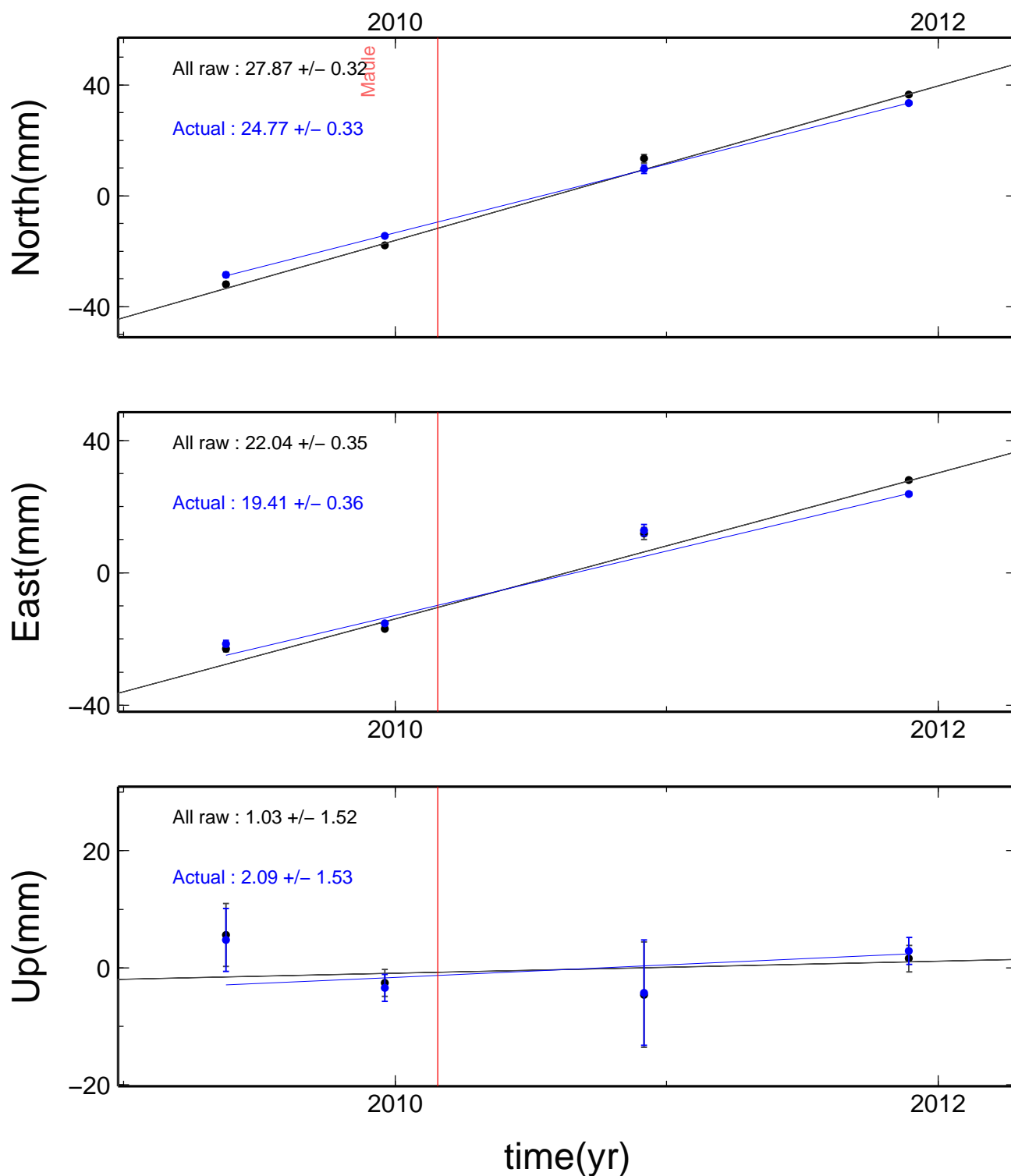


time(yr)

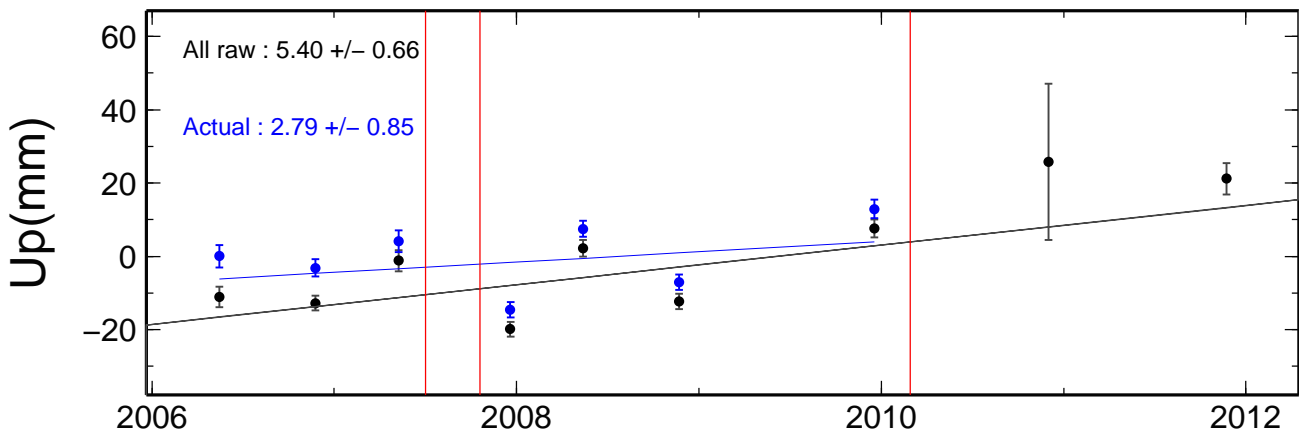
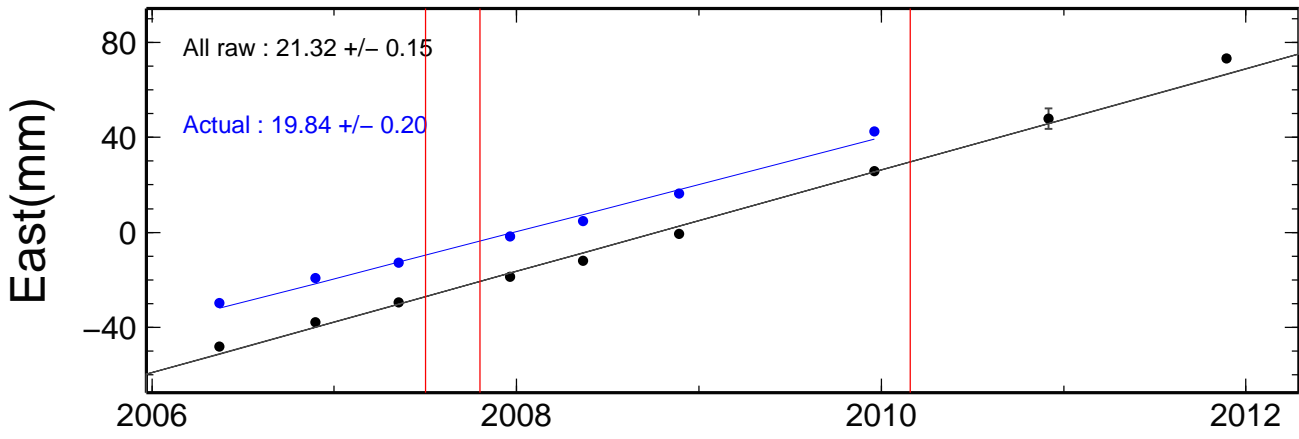
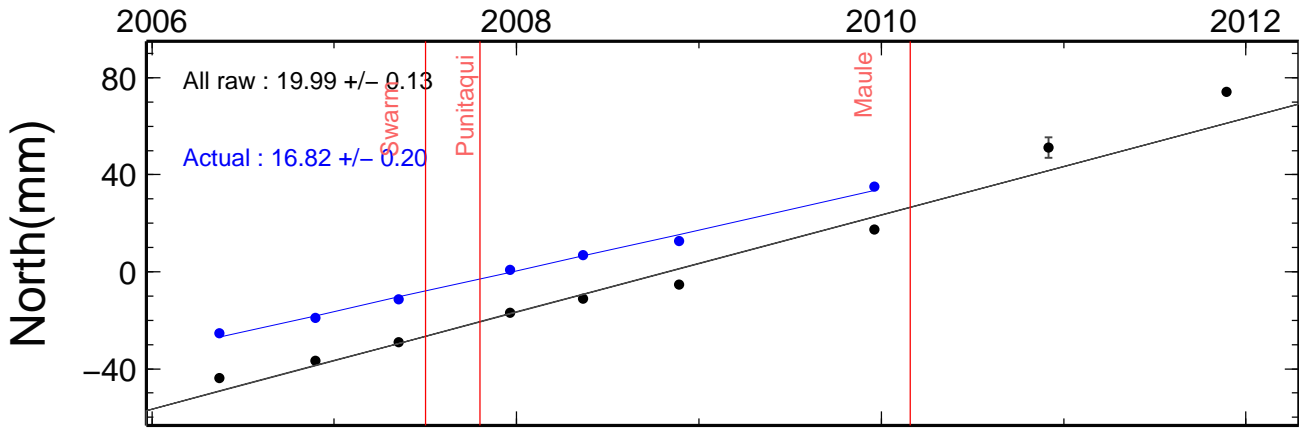
ABOL



AGRD

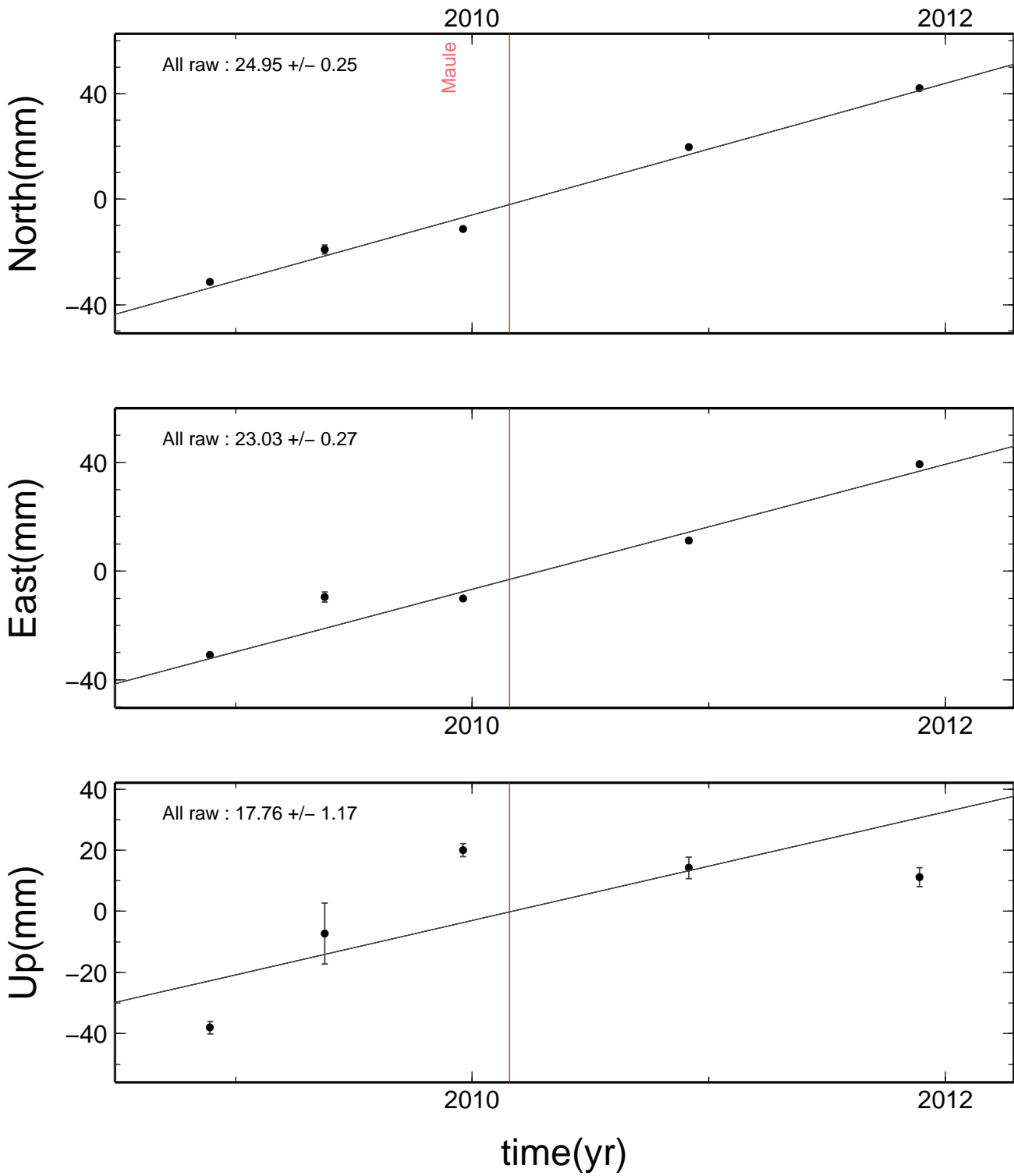


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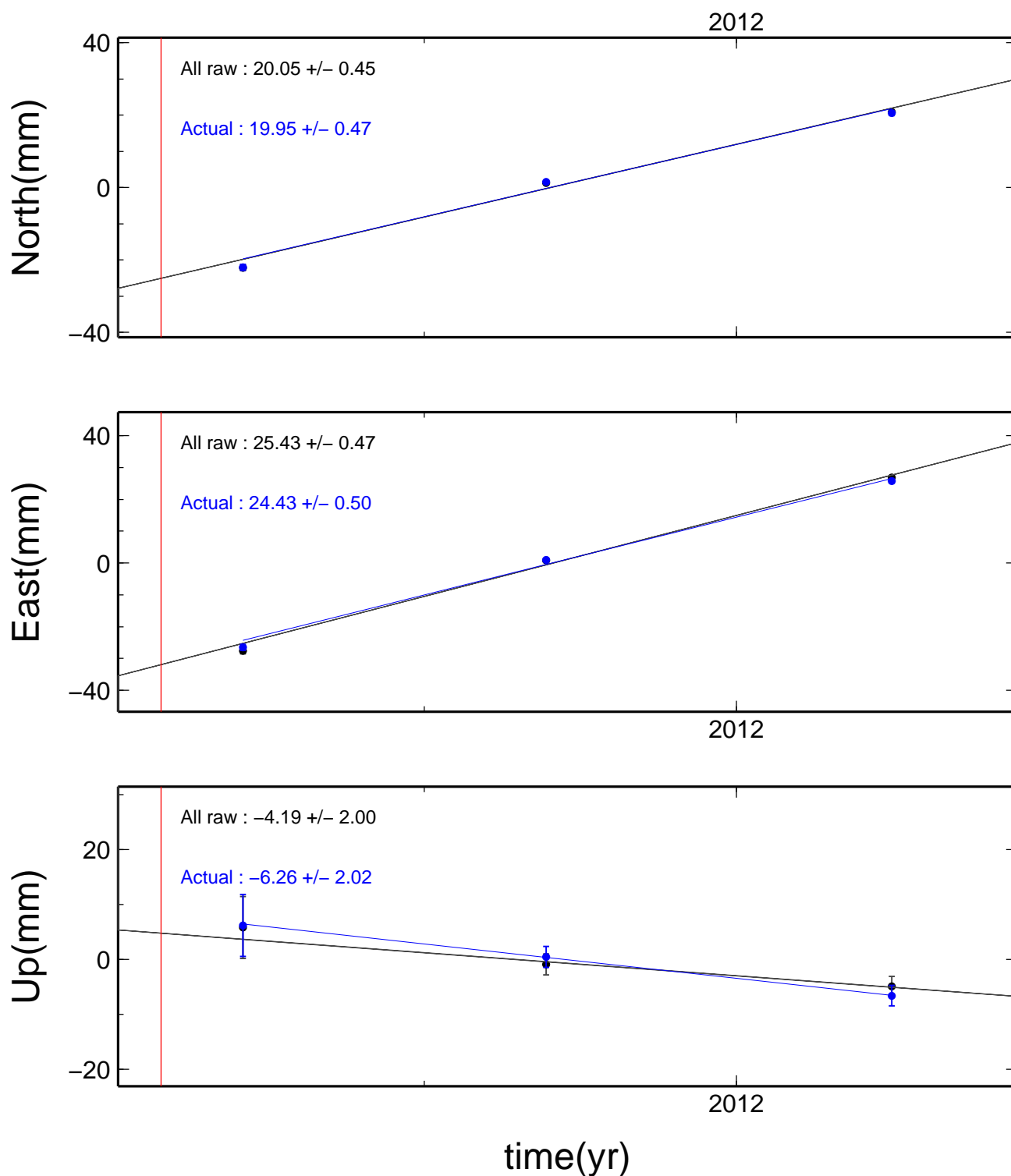


time(yr)

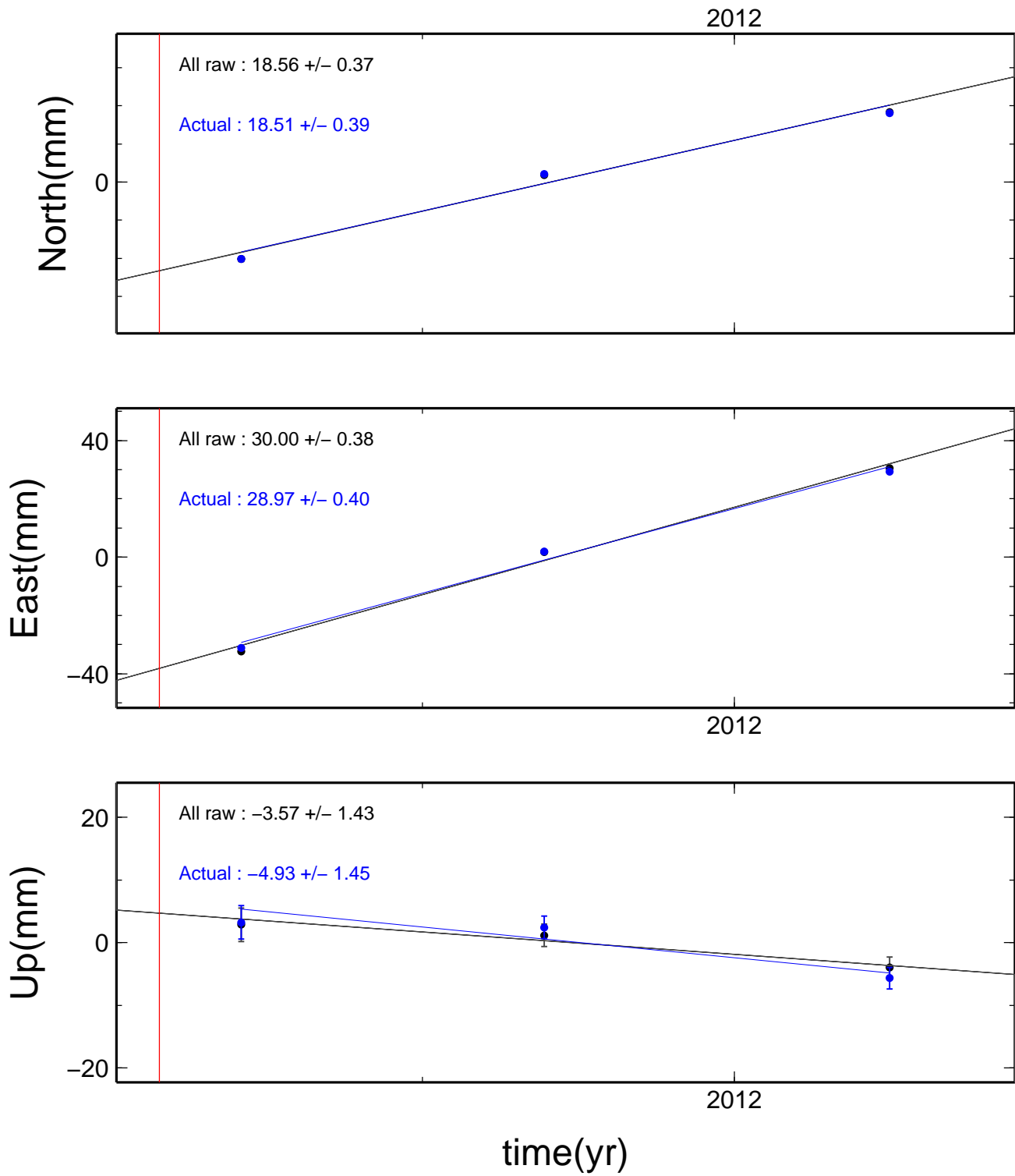
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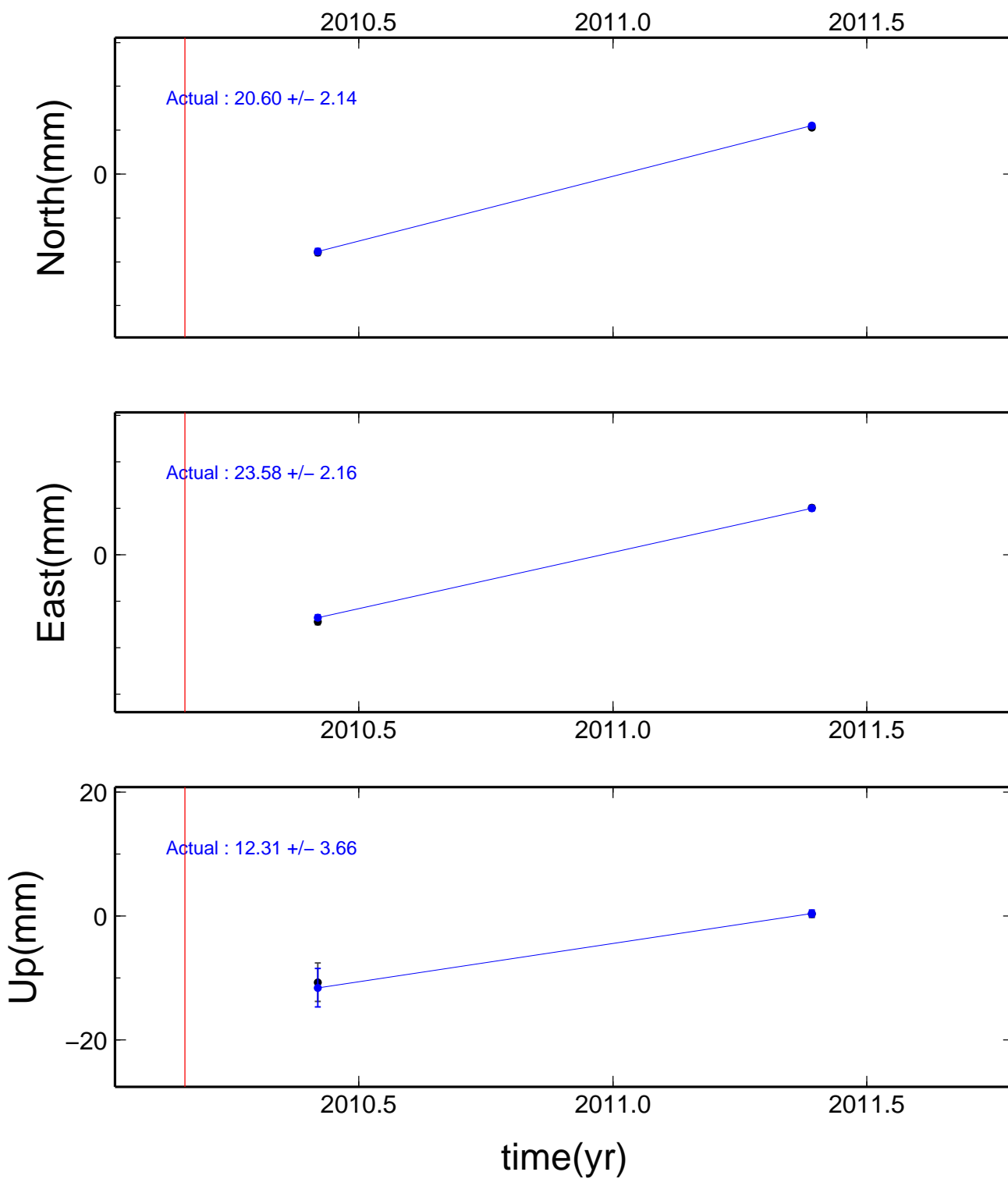
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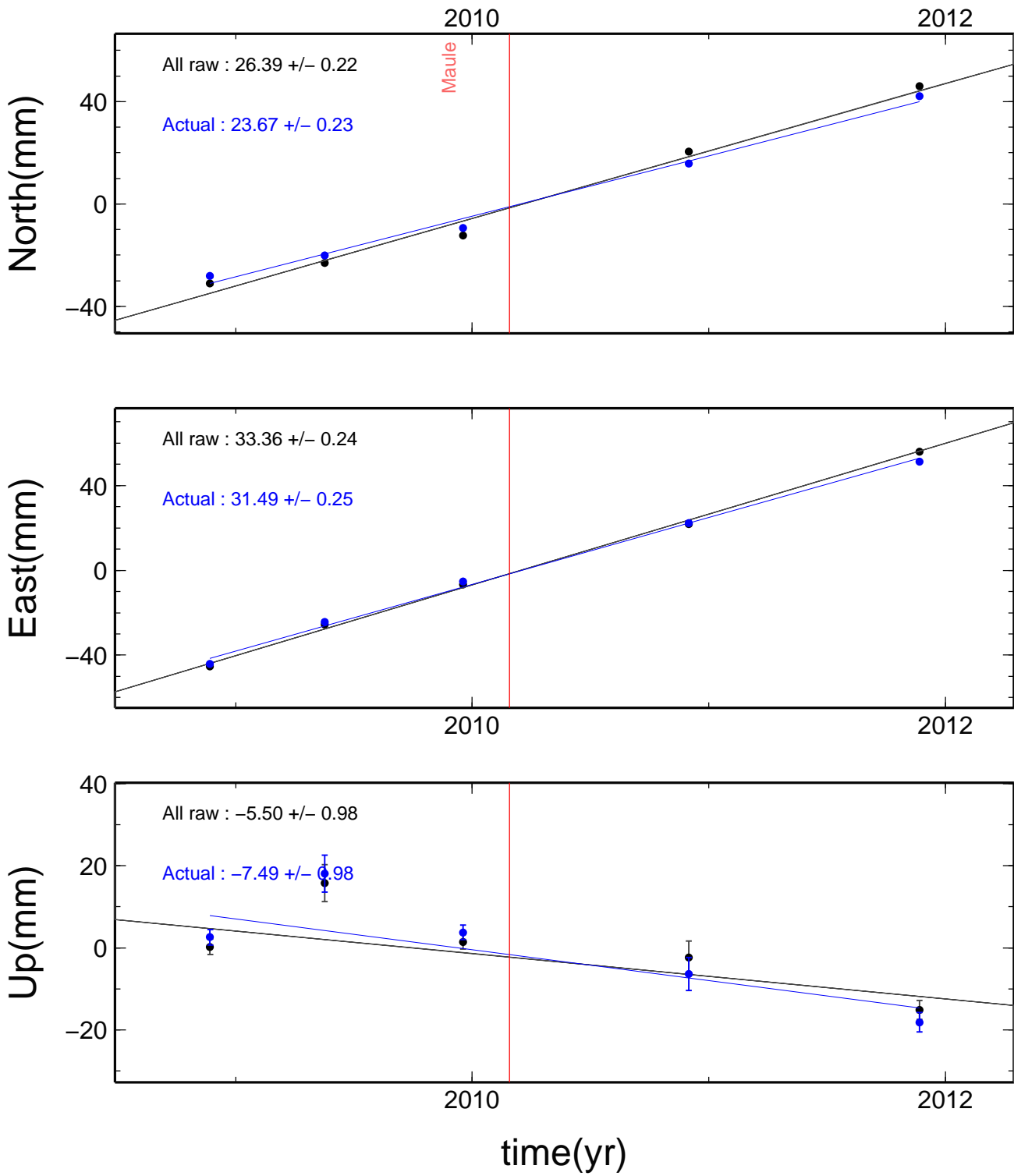
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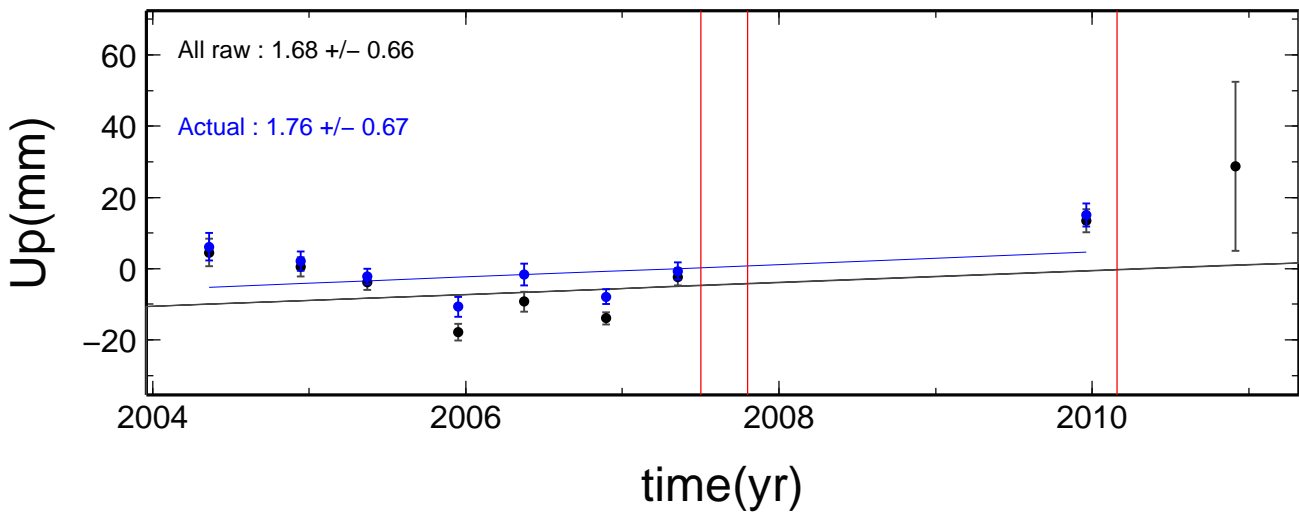
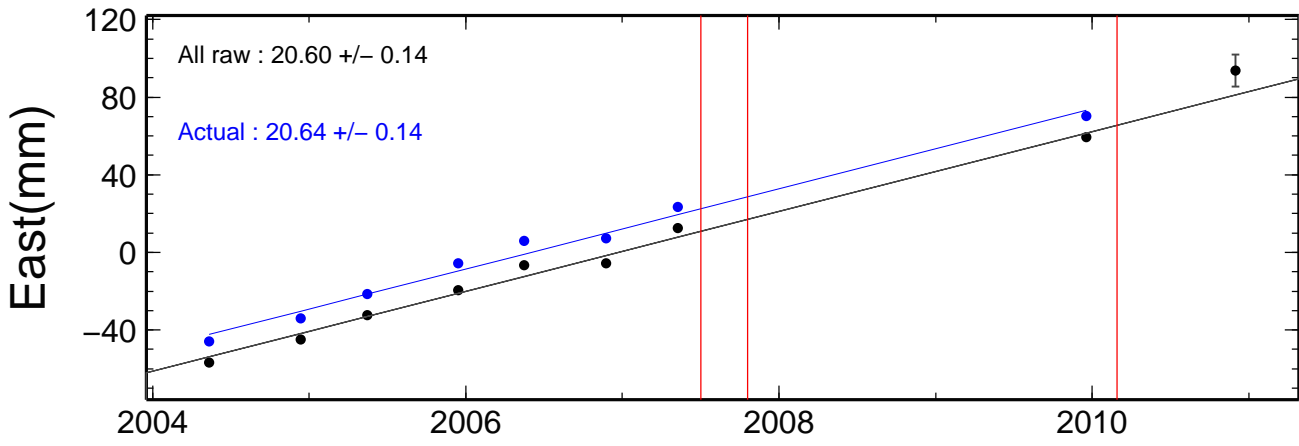
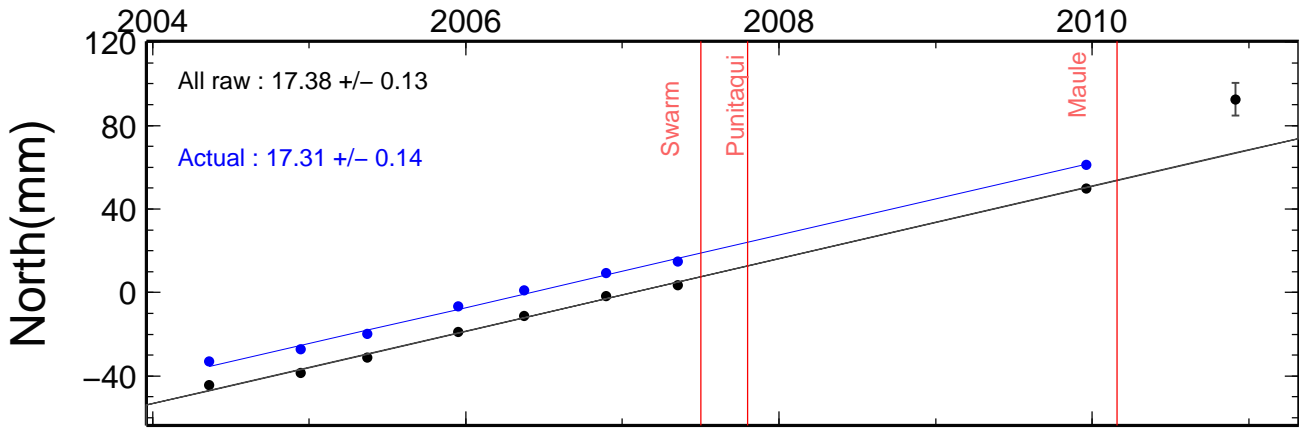
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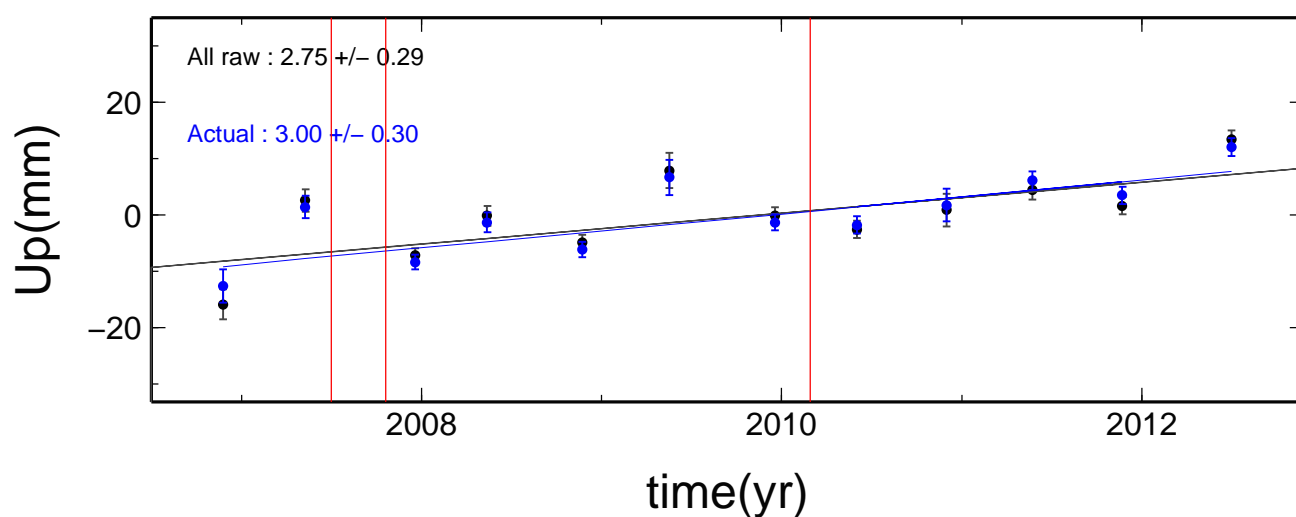
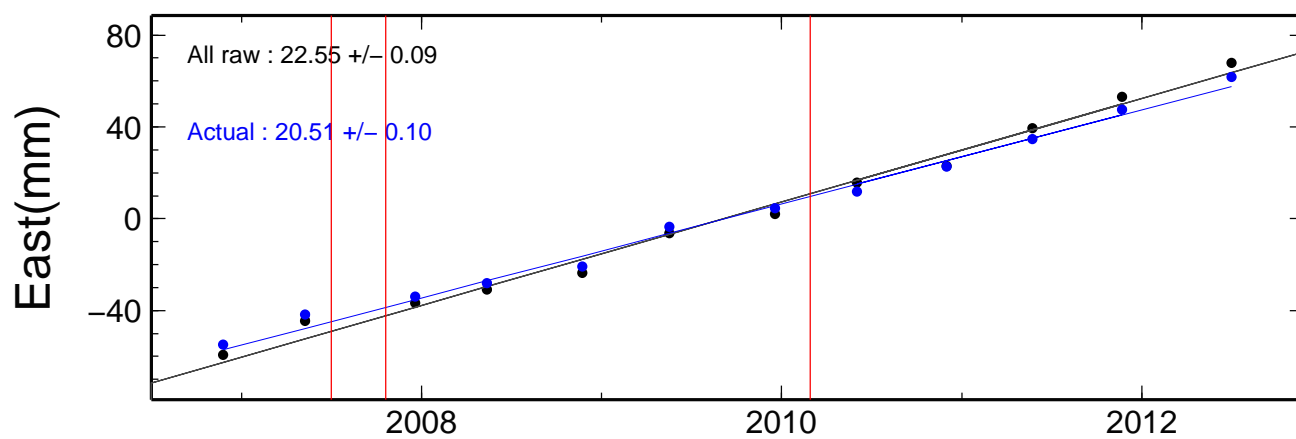
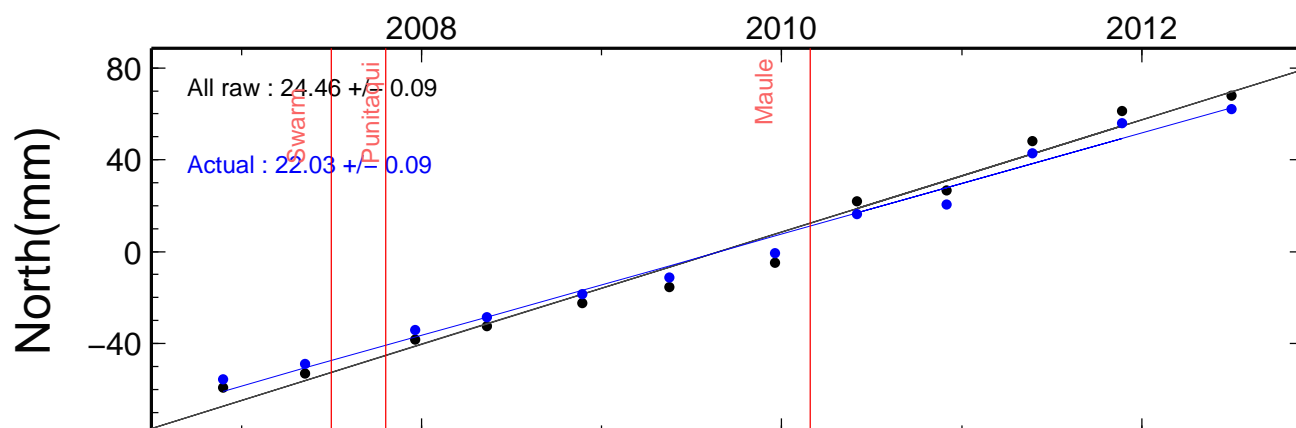
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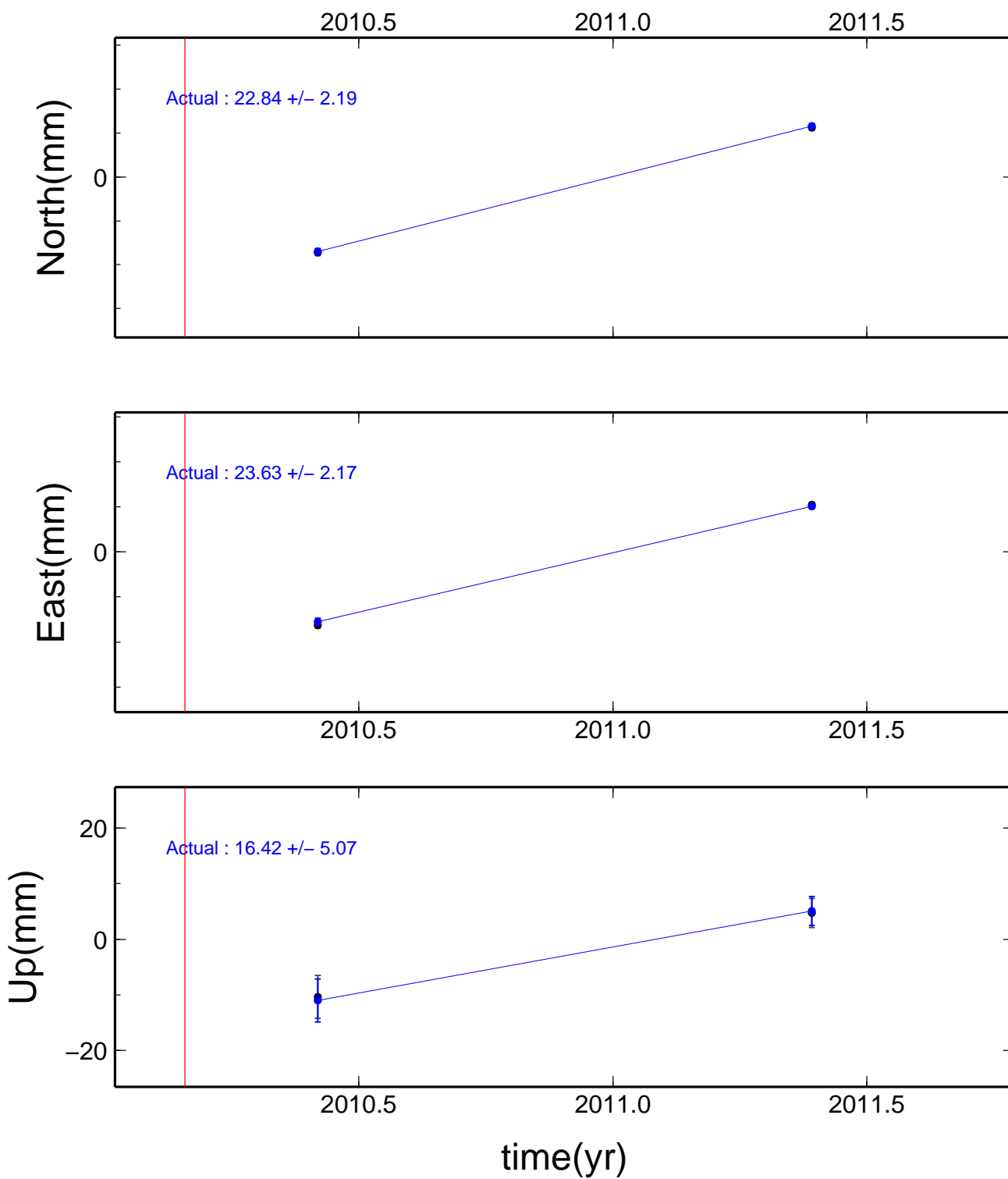


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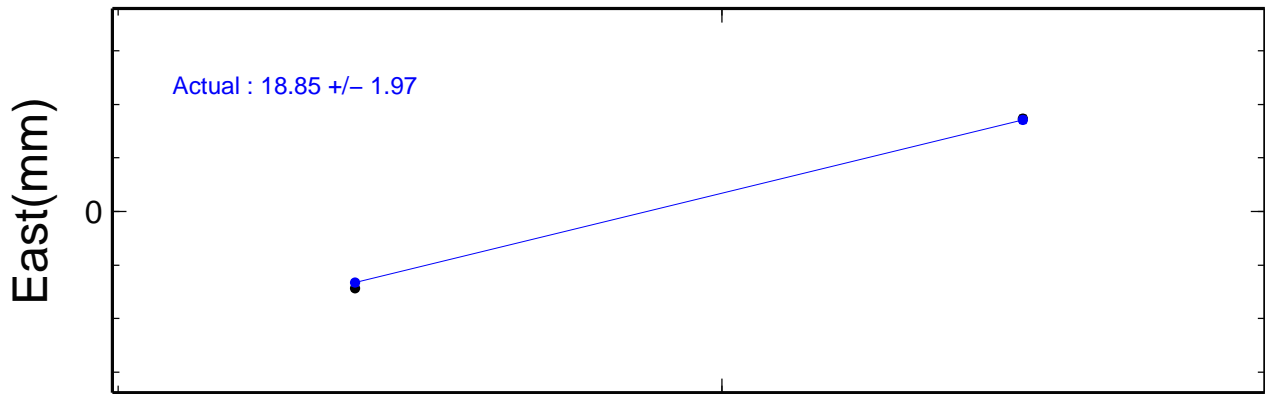
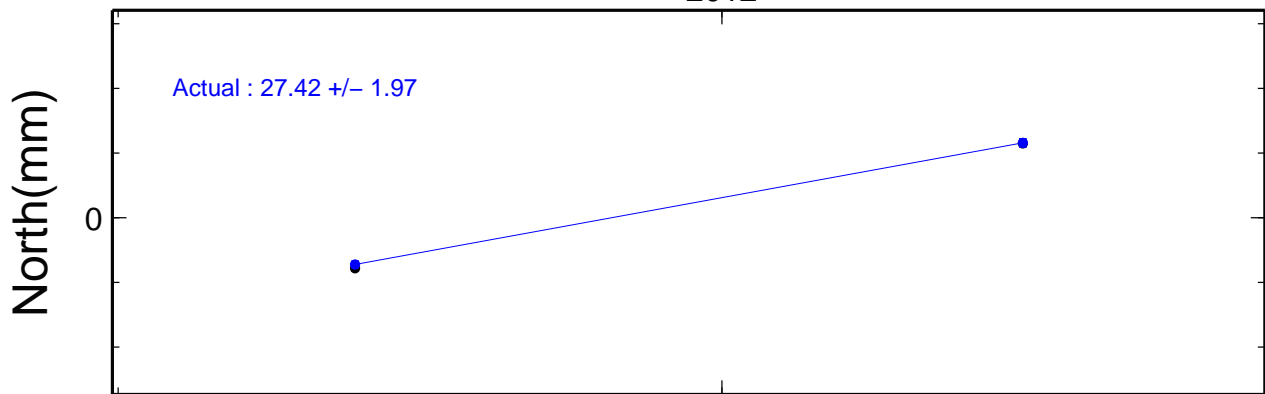
time(yr)

CAIM

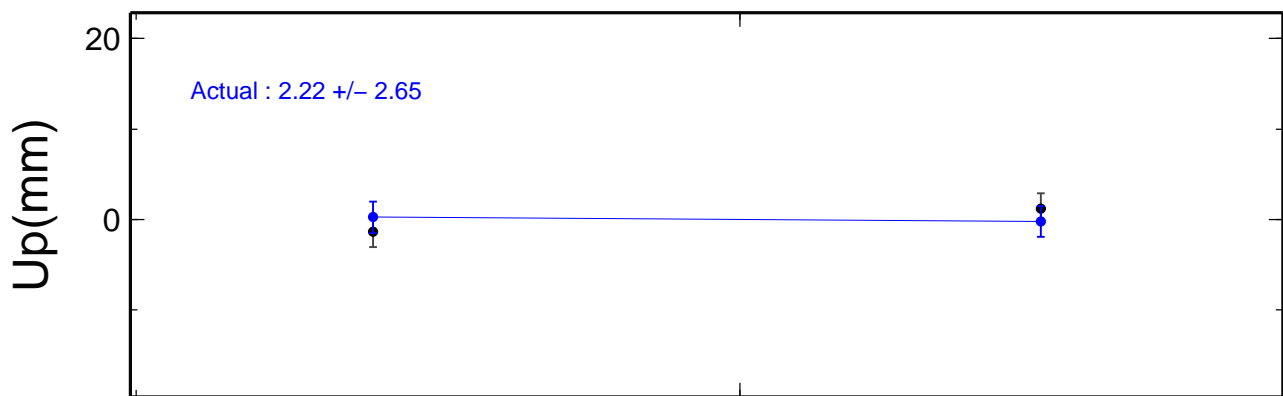


CANG

2012



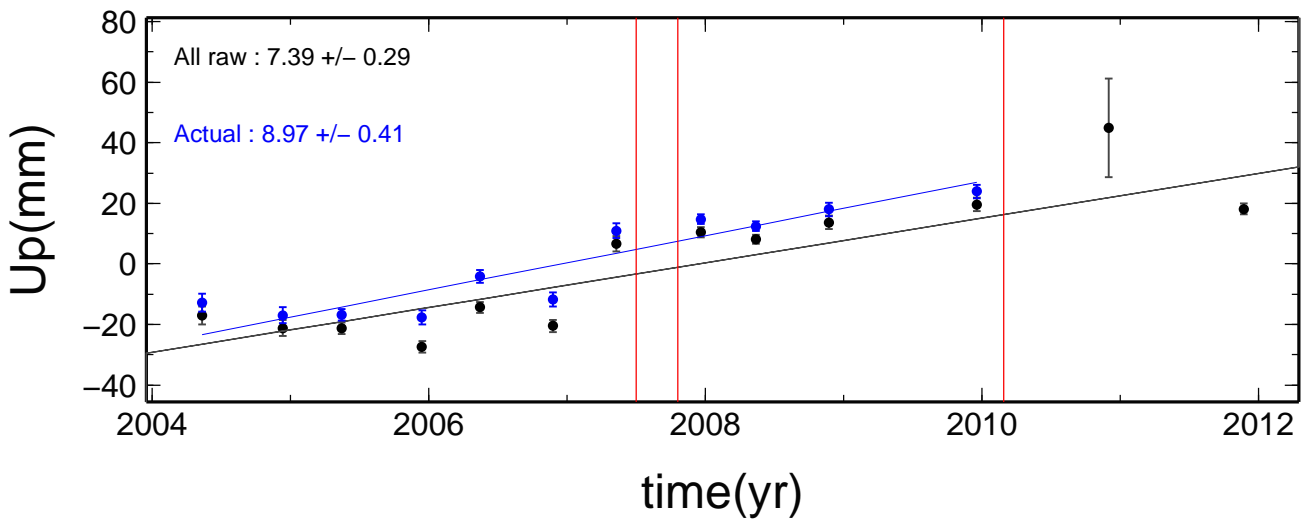
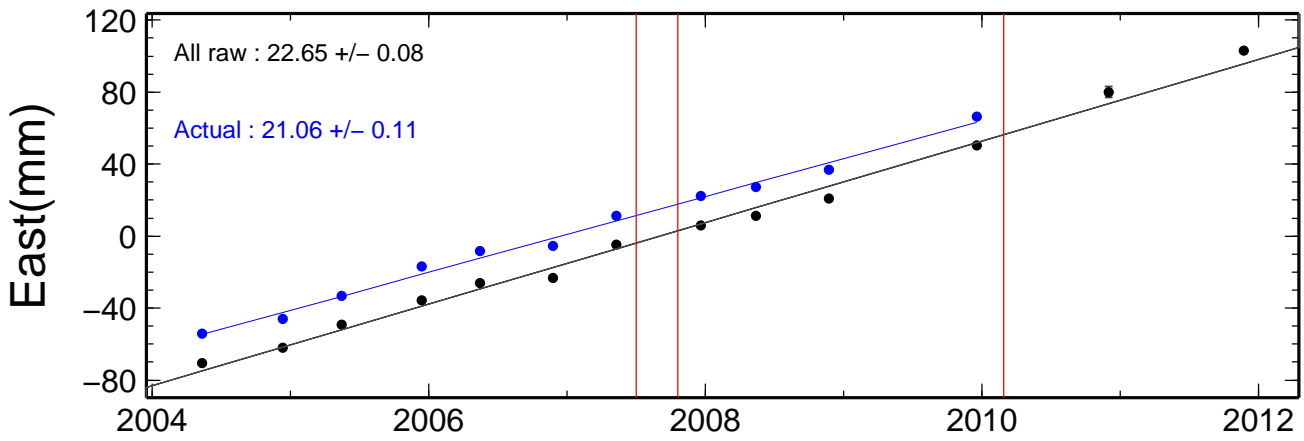
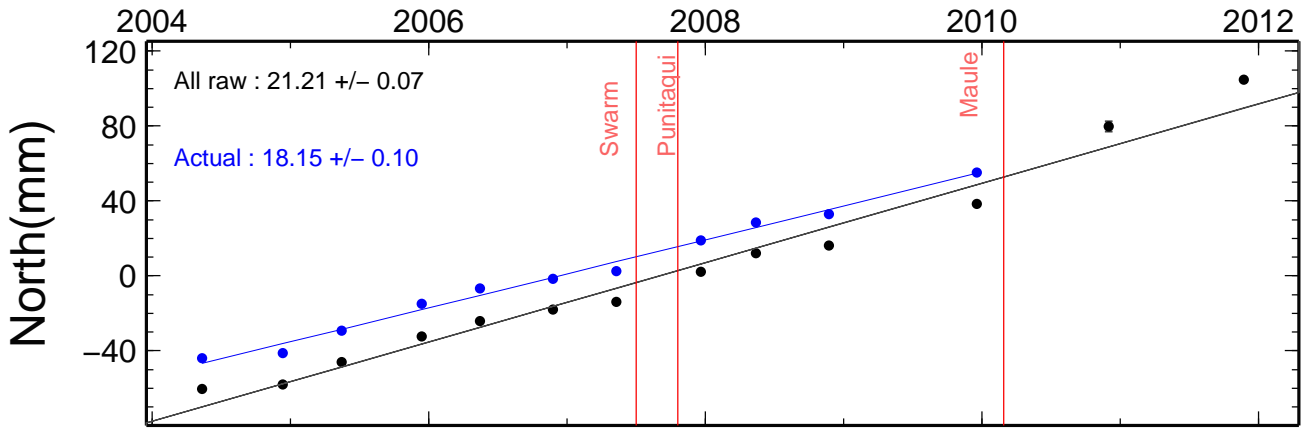
2012



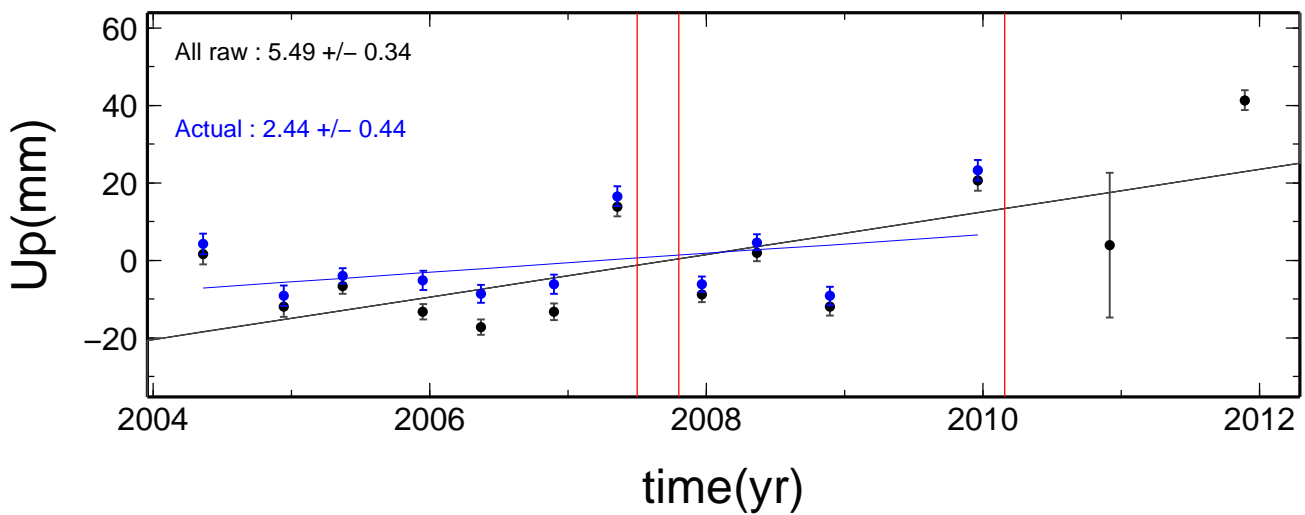
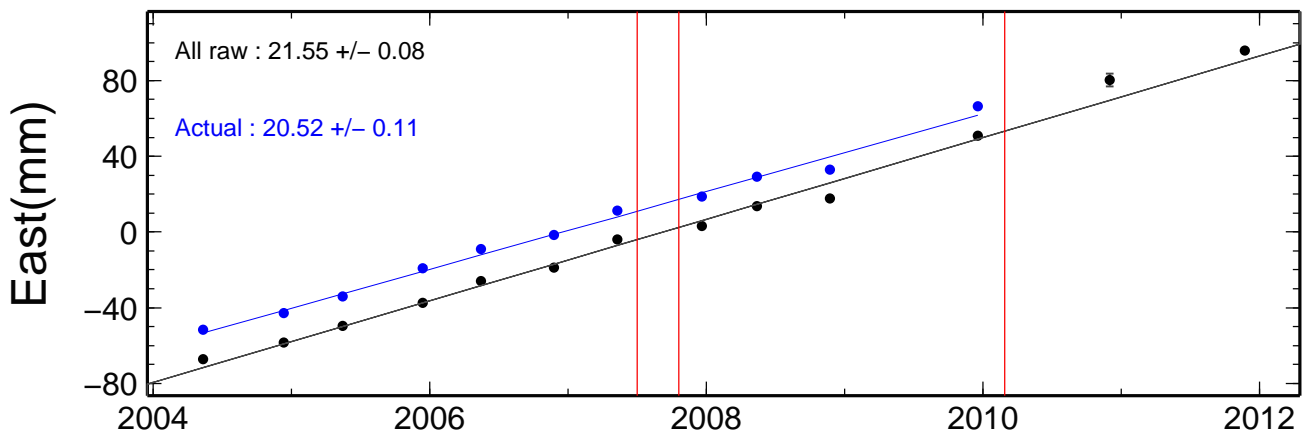
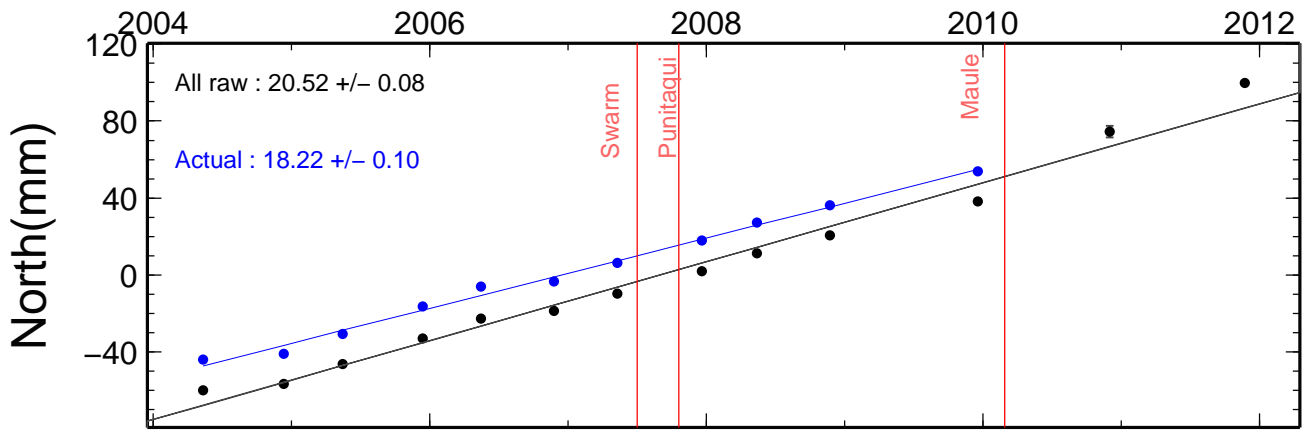
2012

time(yr)

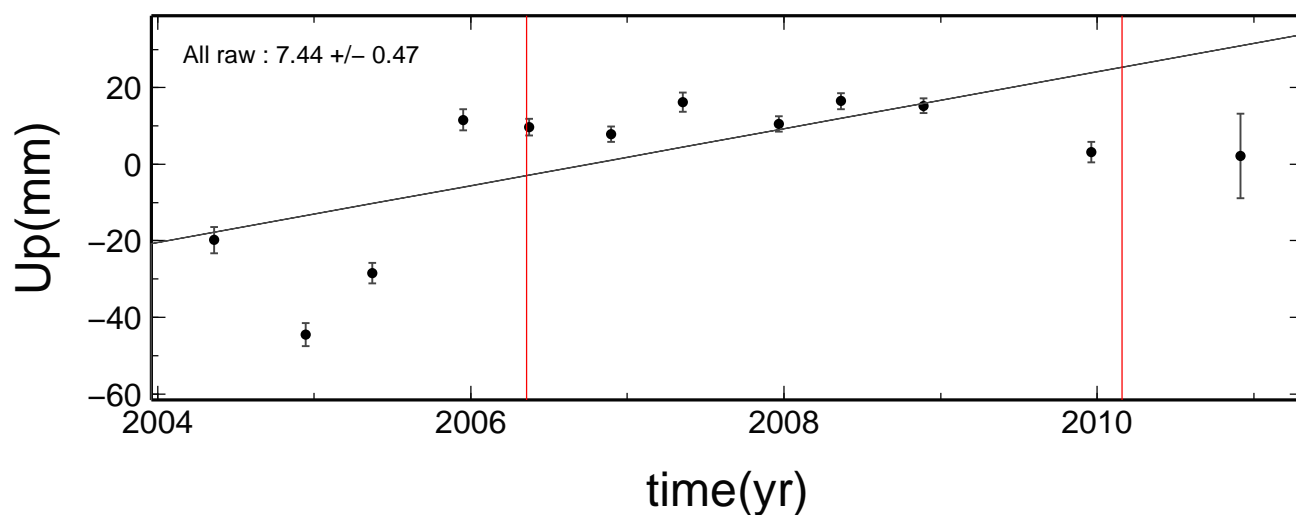
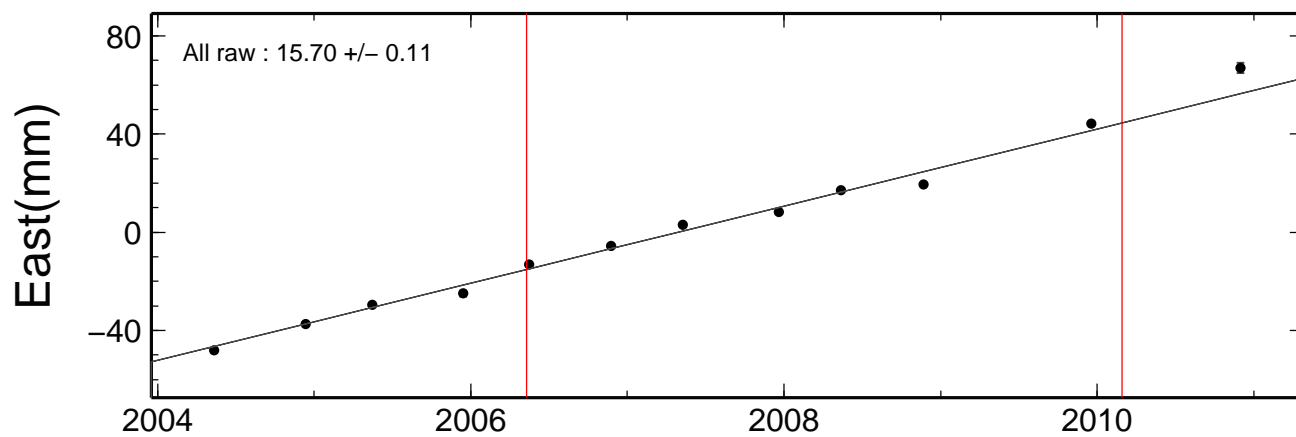
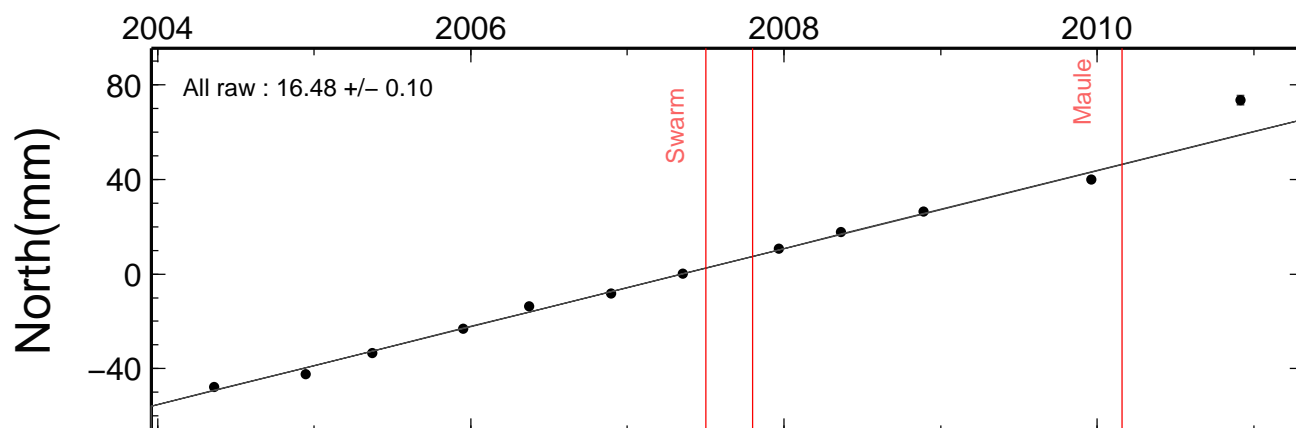
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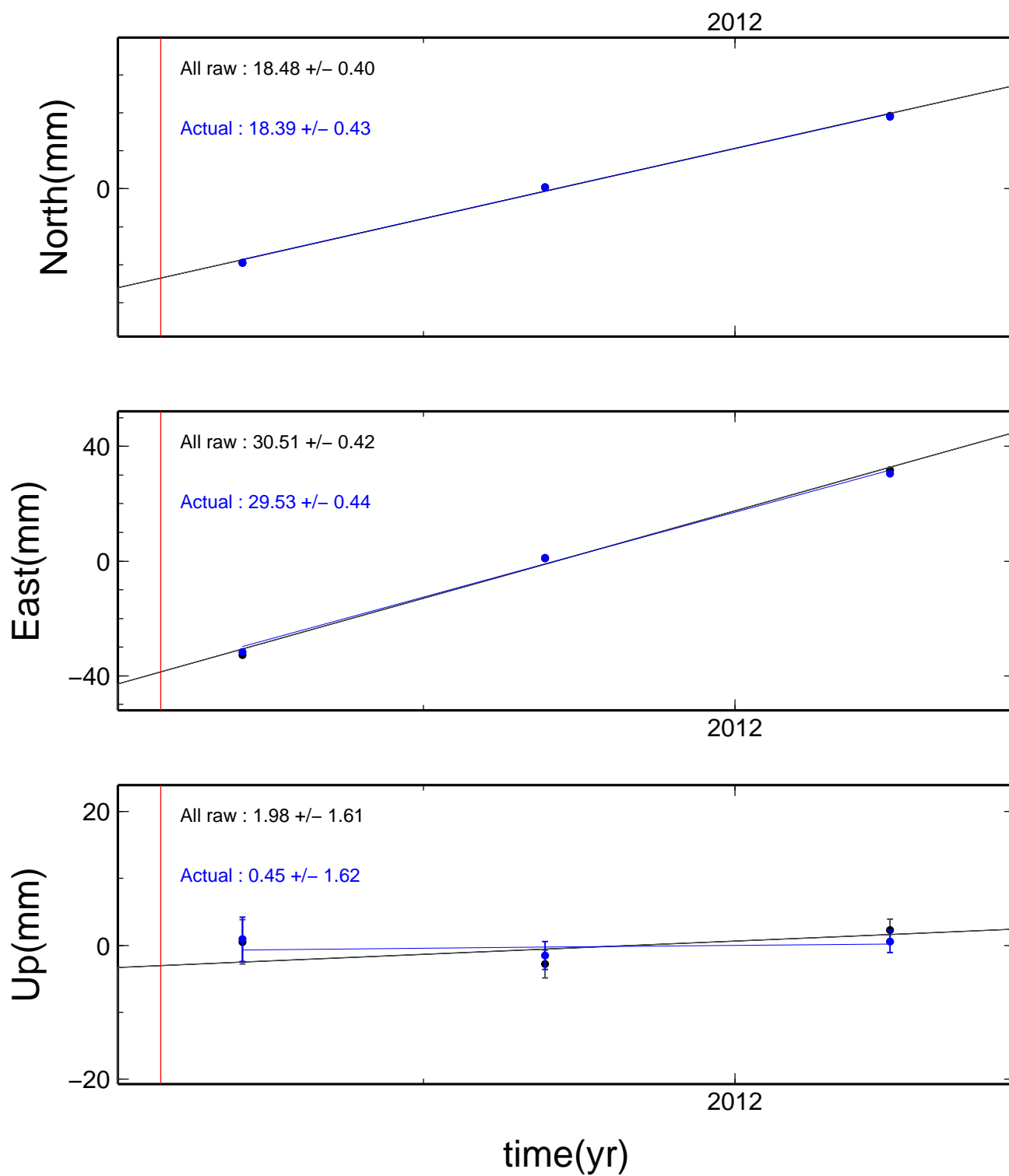
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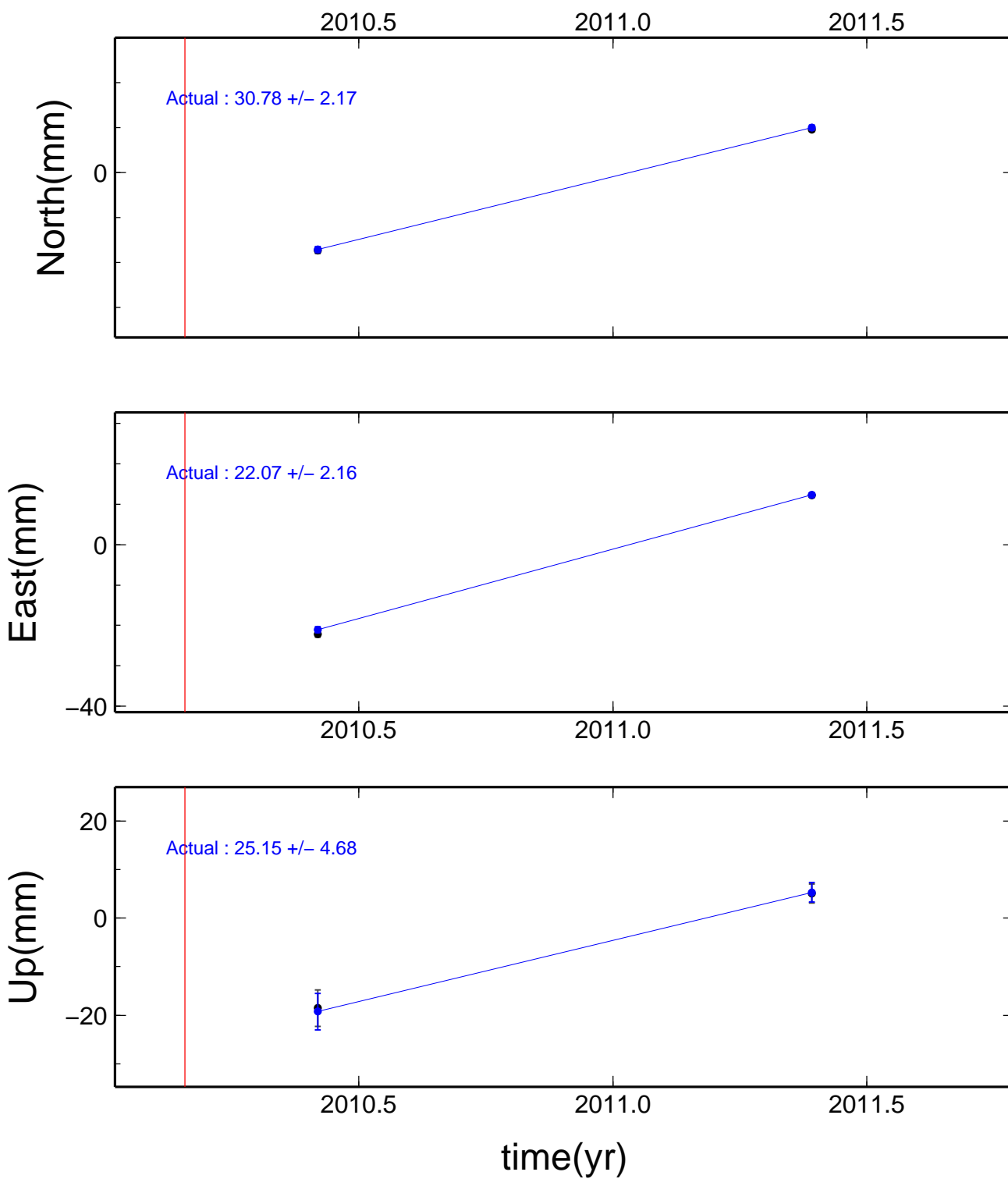
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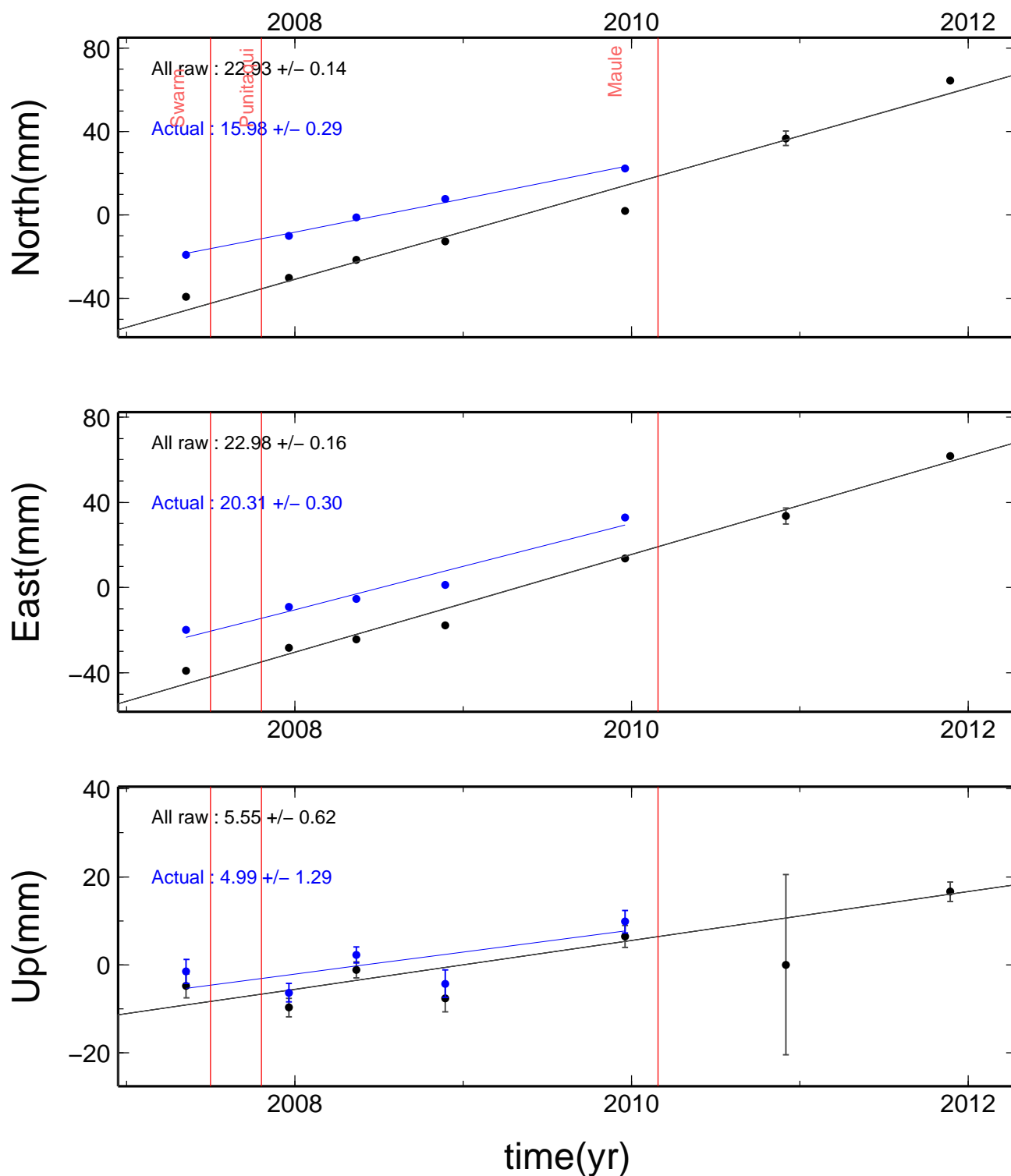
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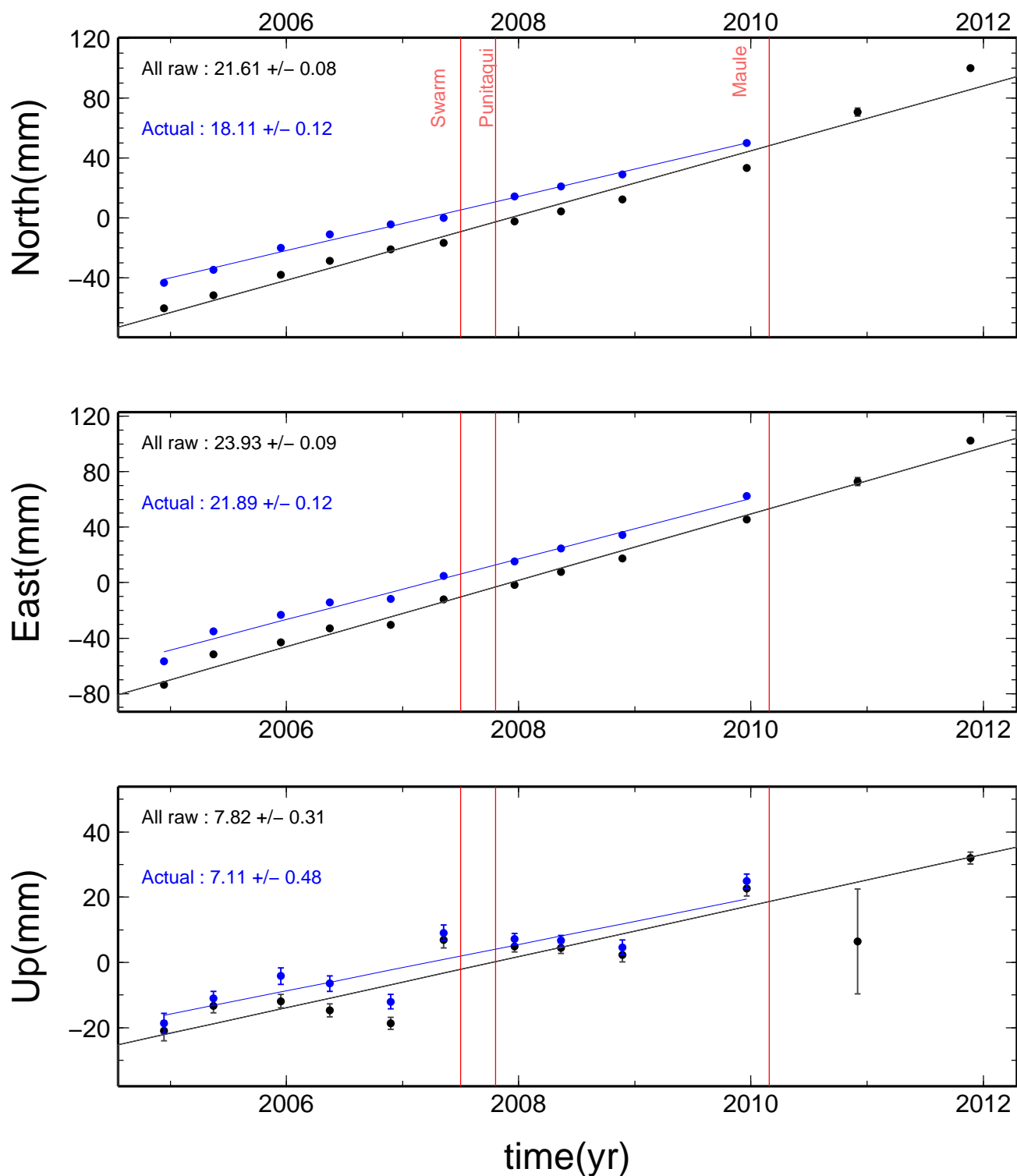
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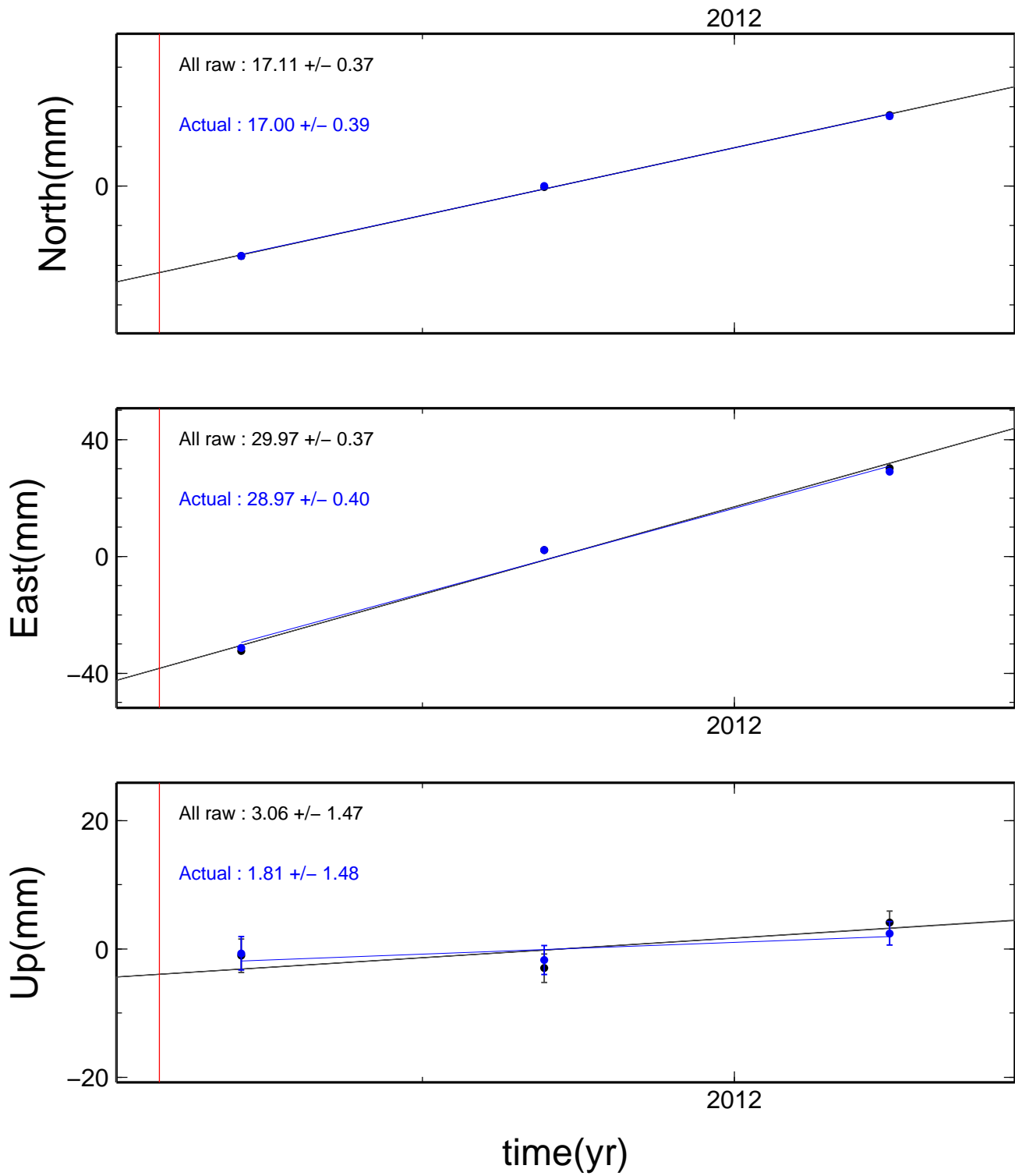
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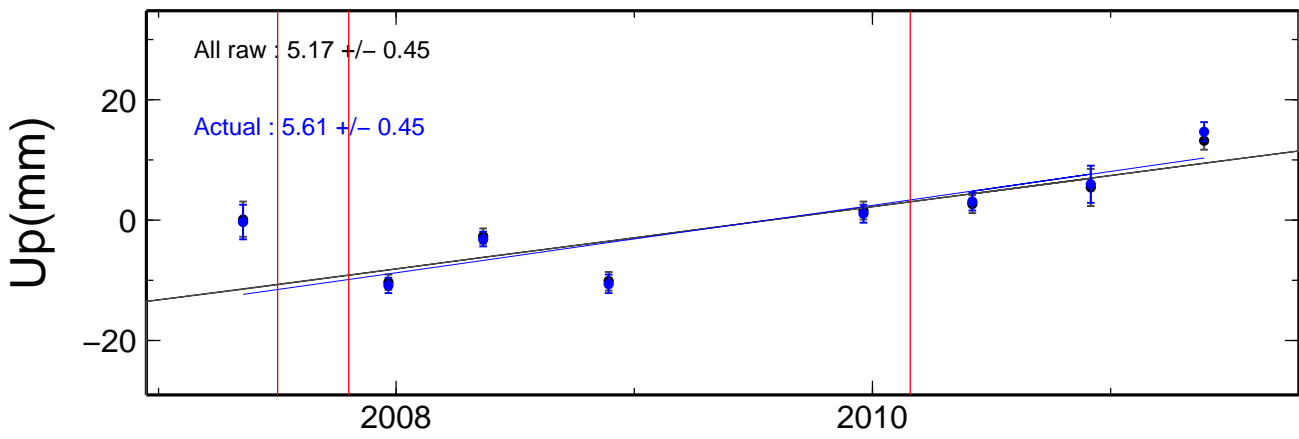
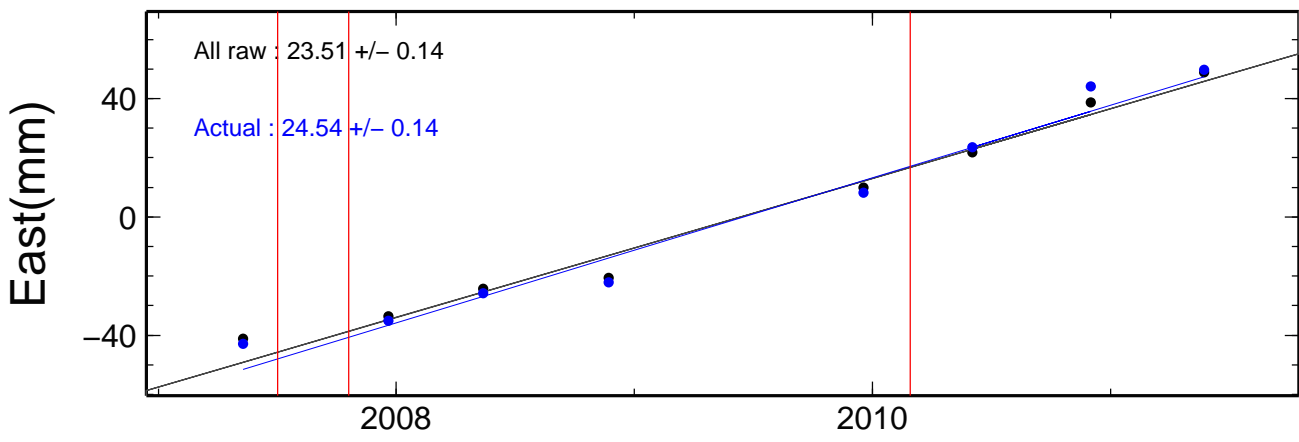
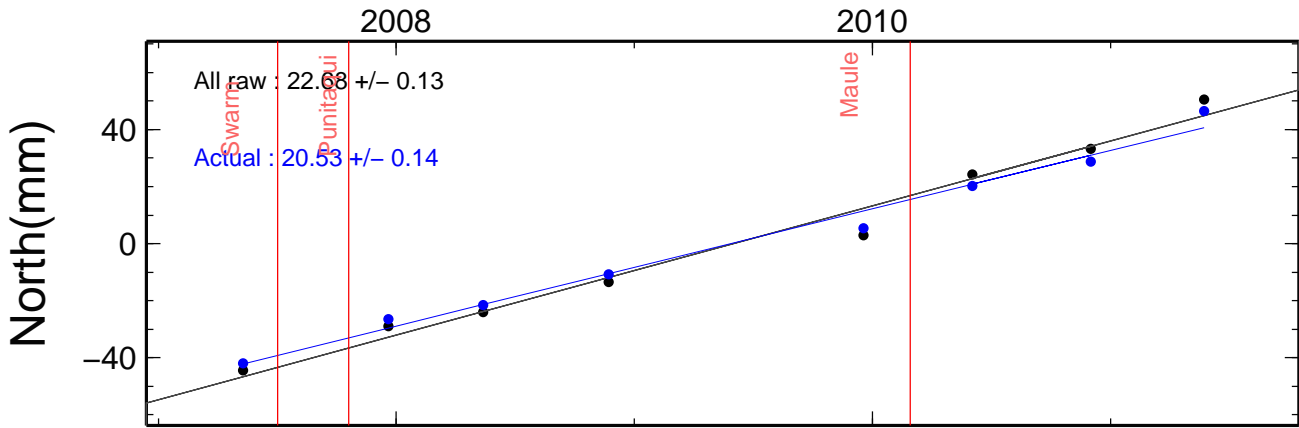
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CHR1

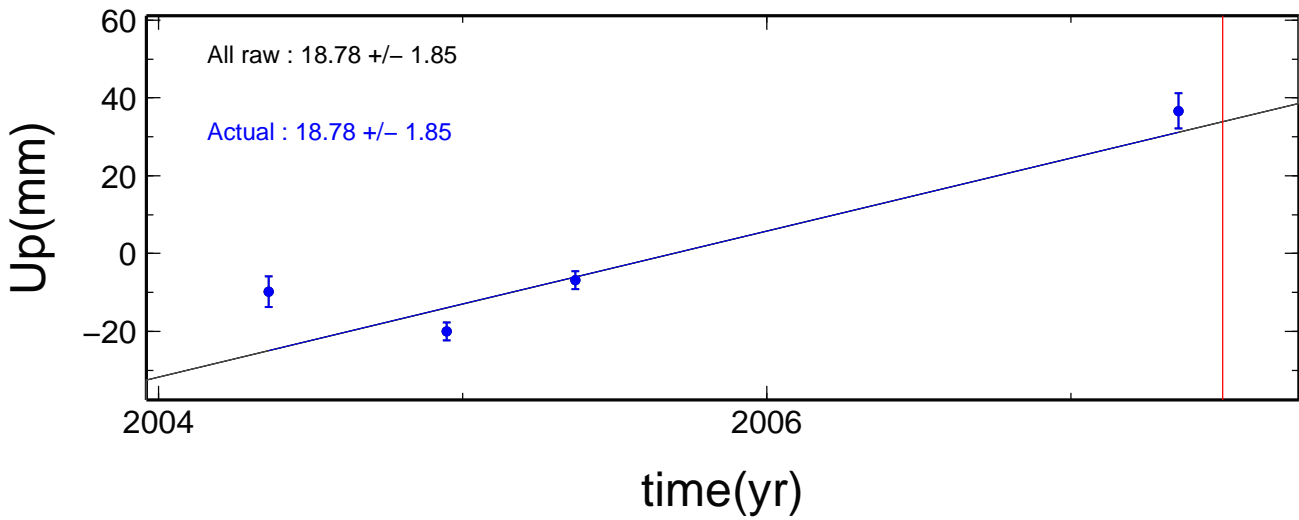
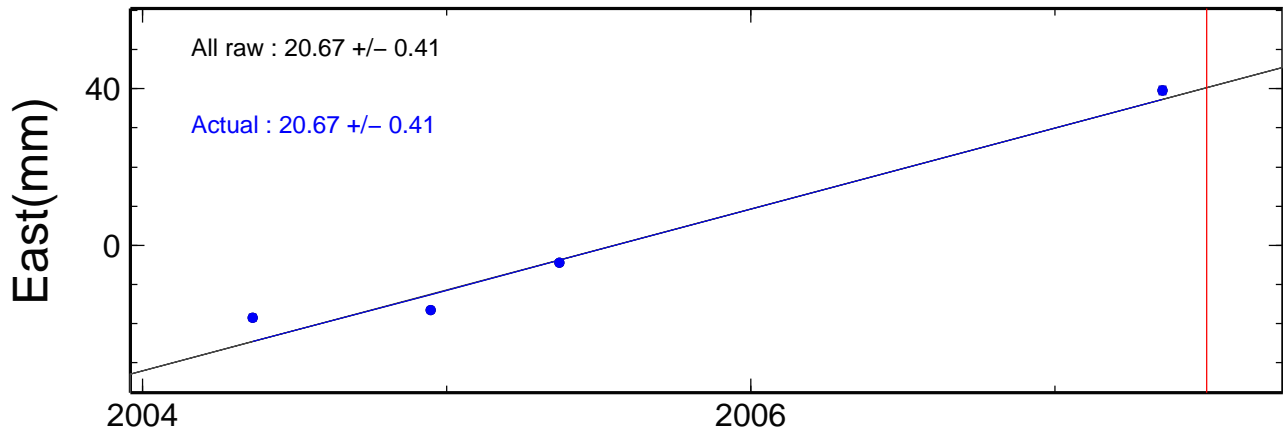
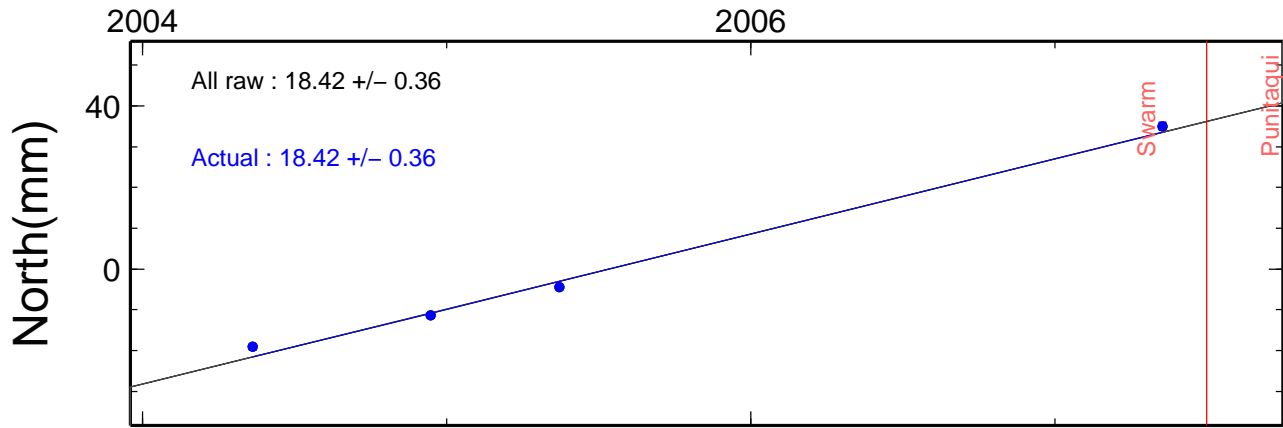


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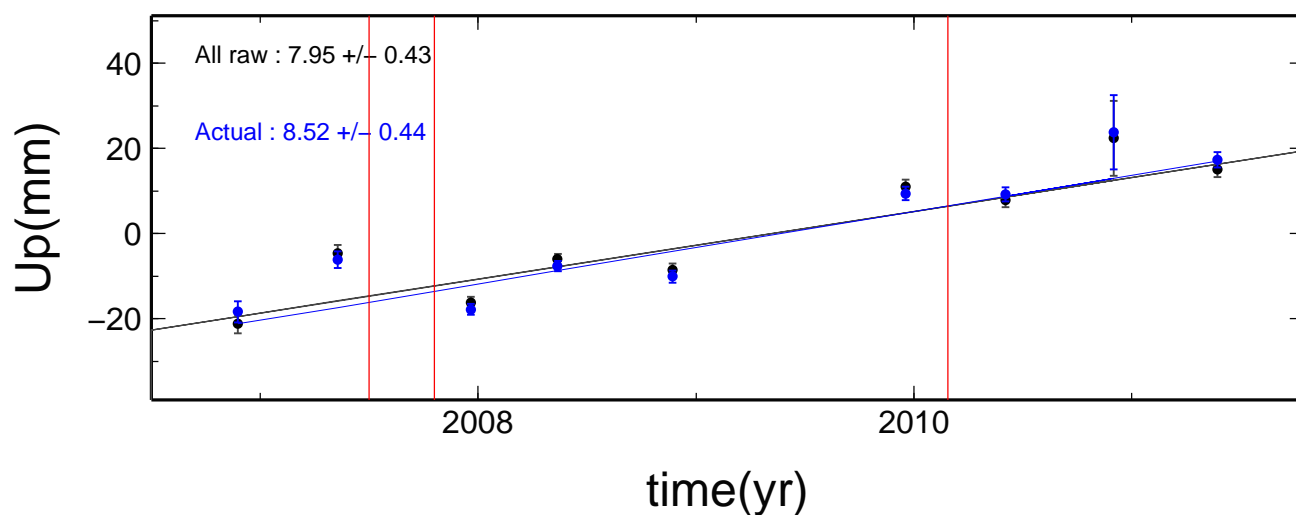
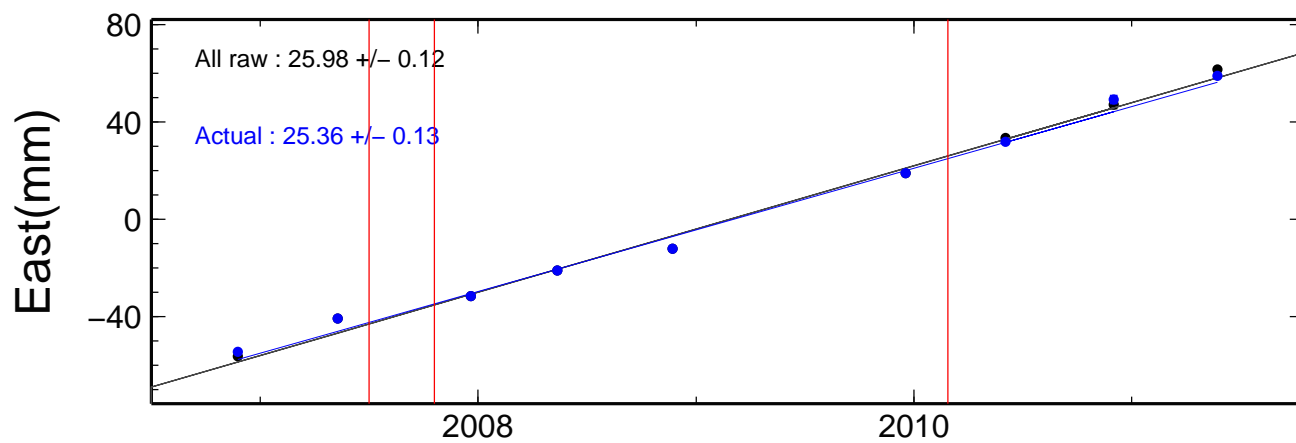
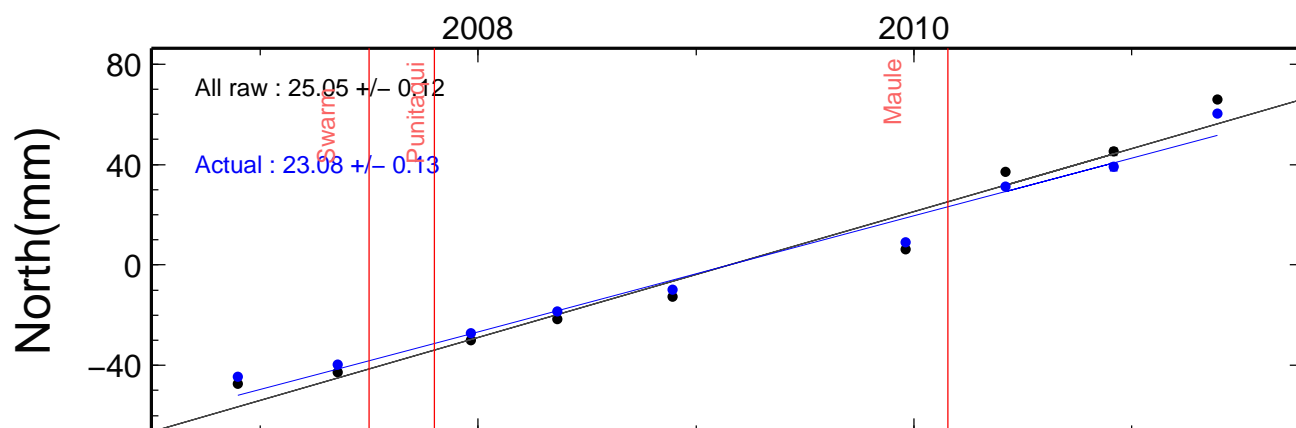


time(yr)

CMOR

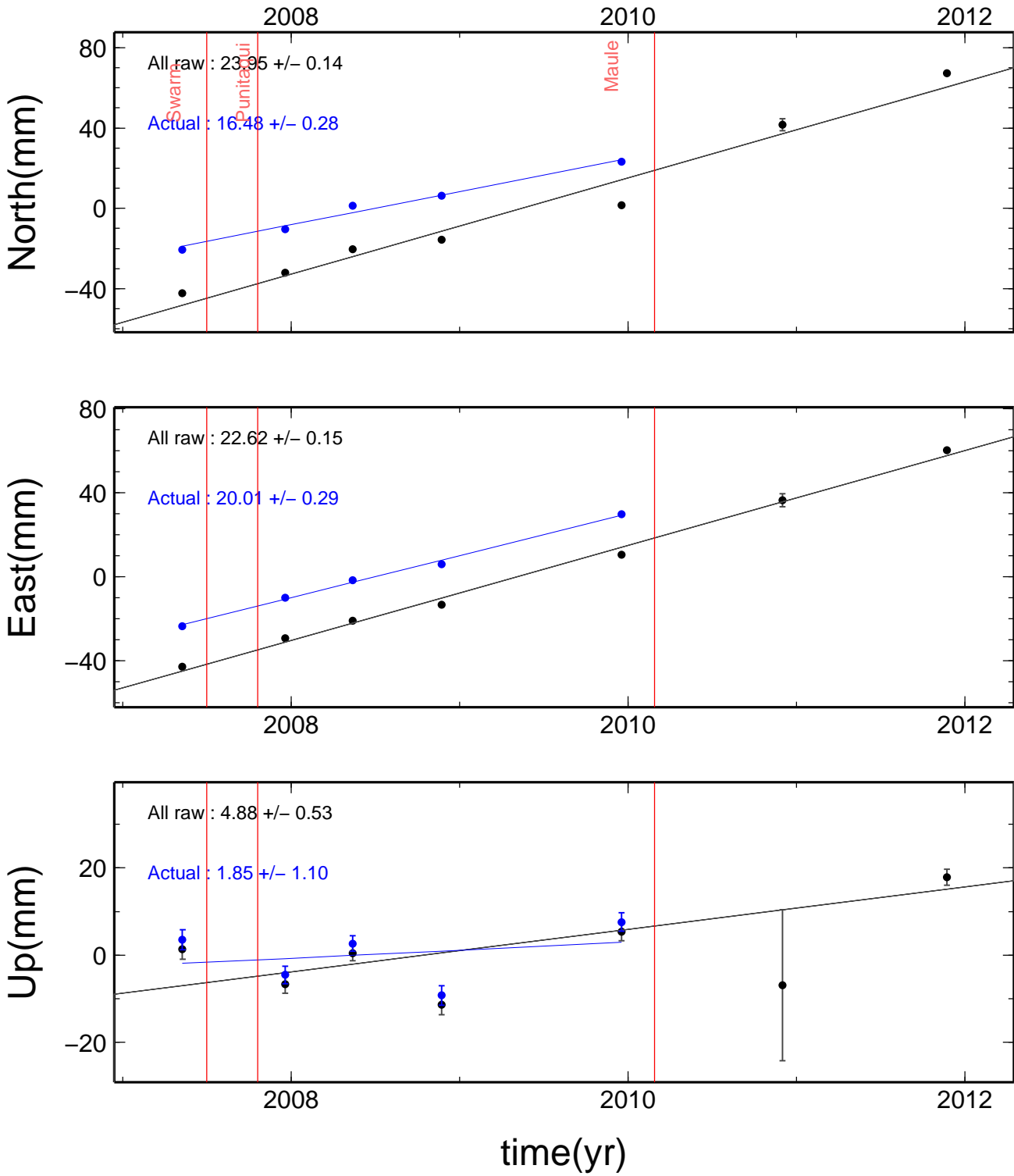


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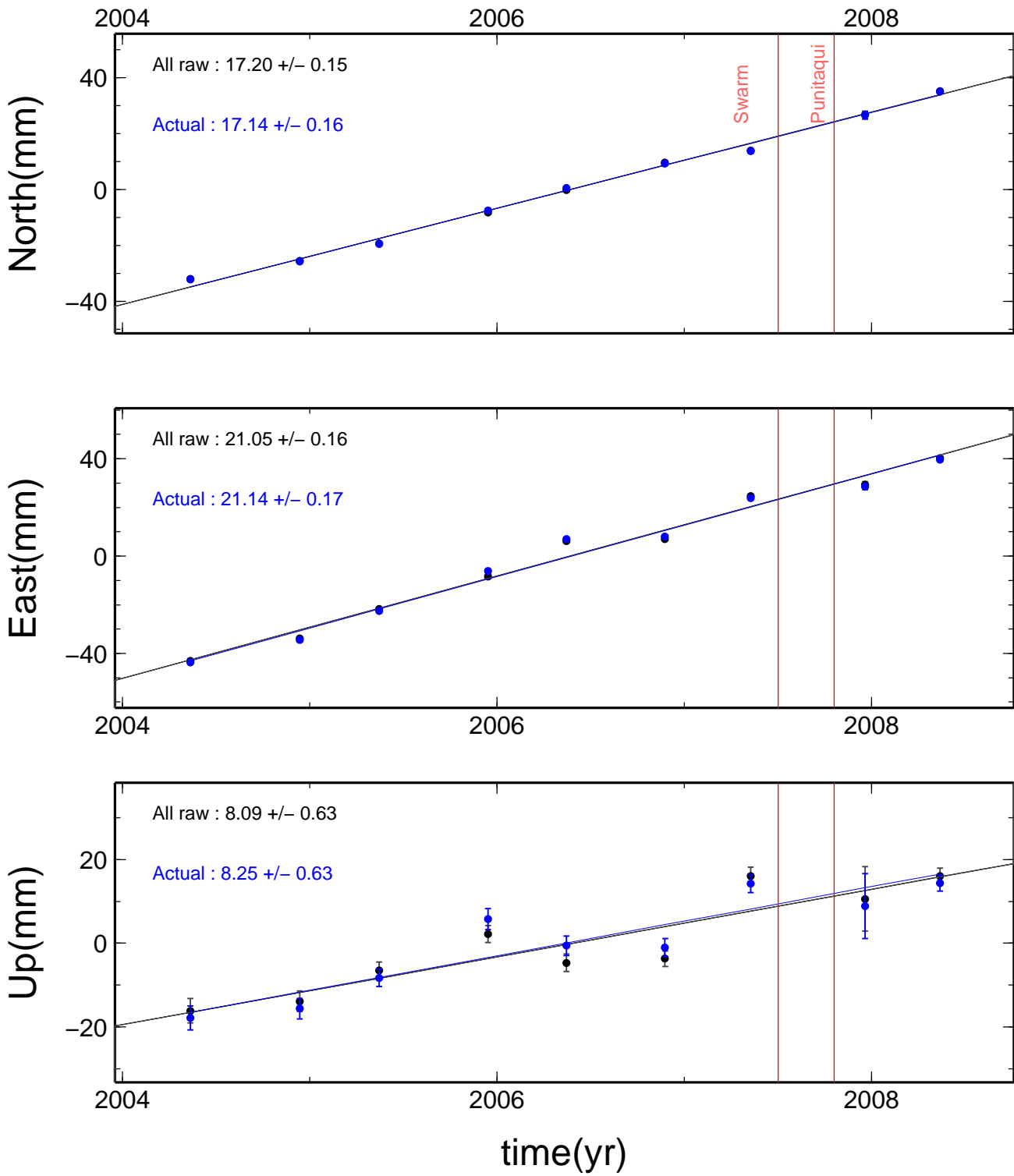


time(yr)

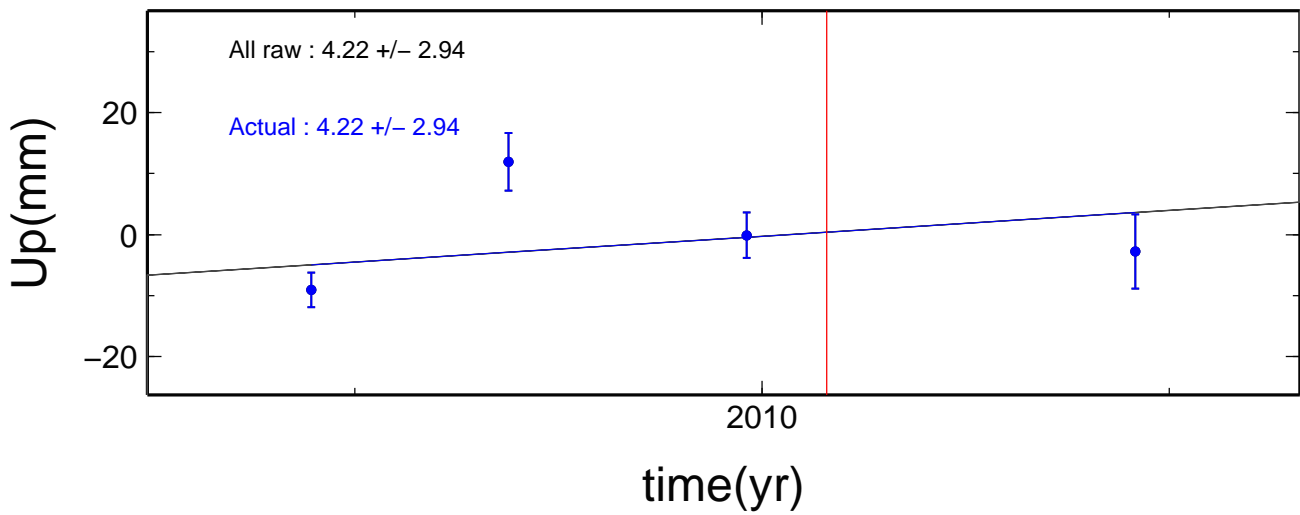
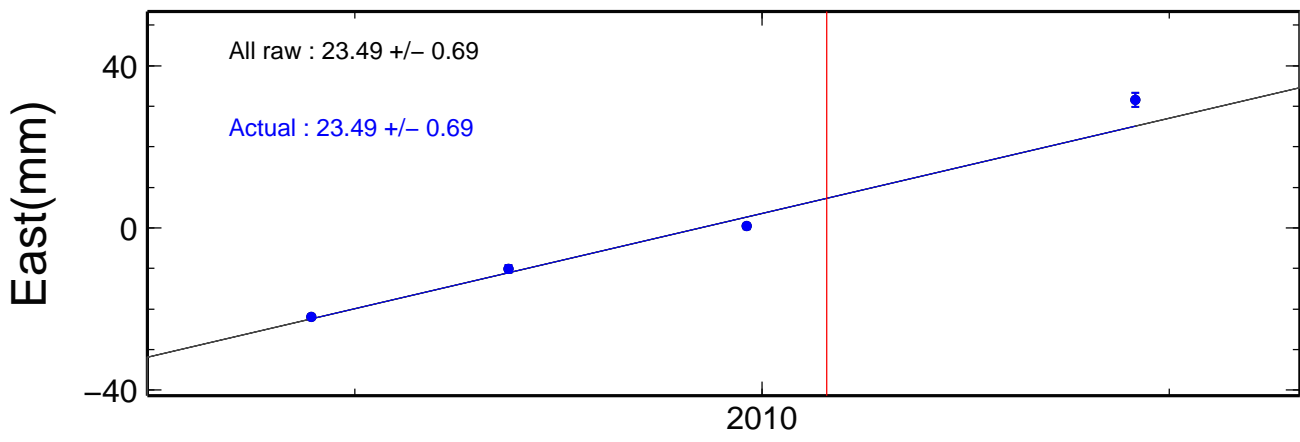
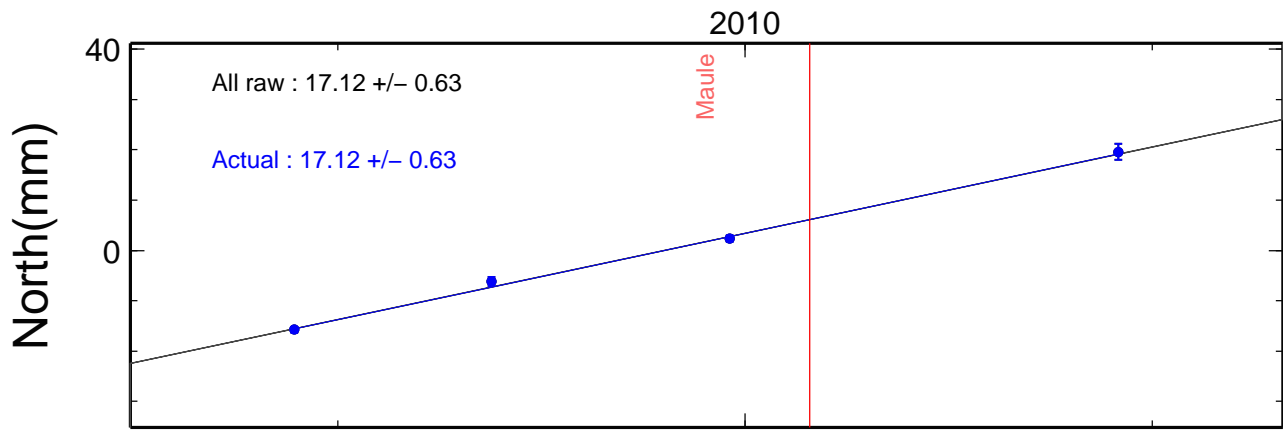
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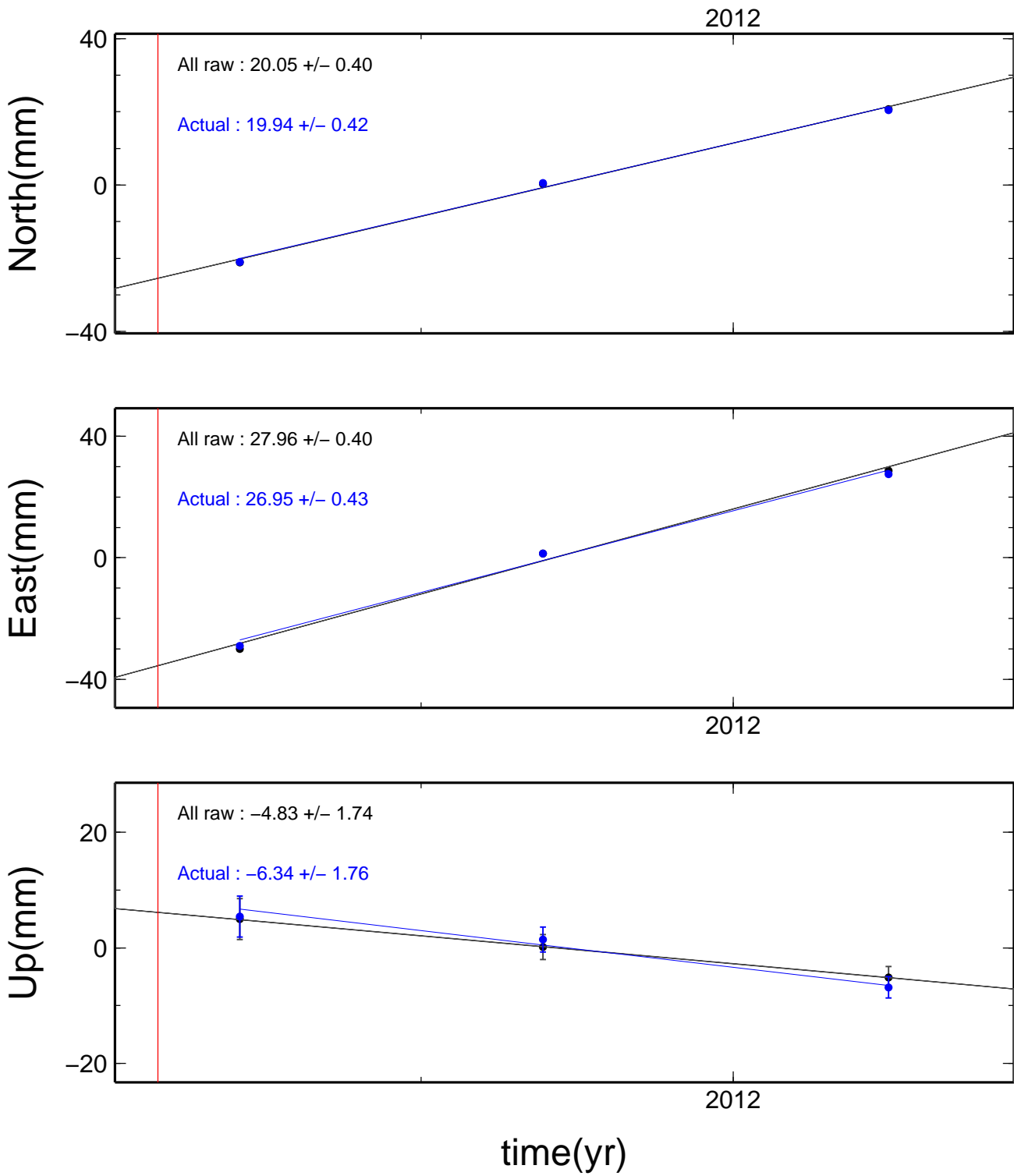
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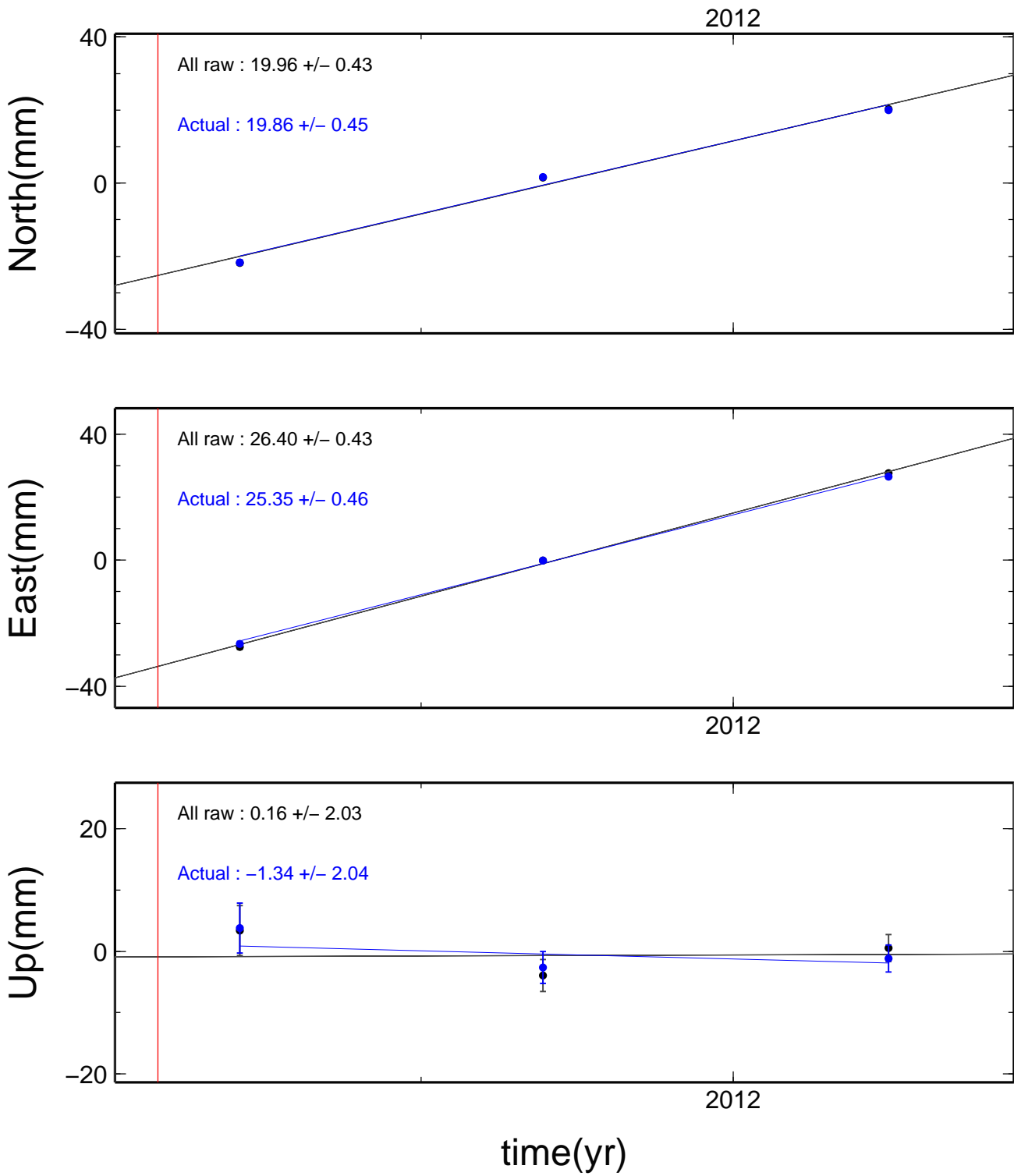
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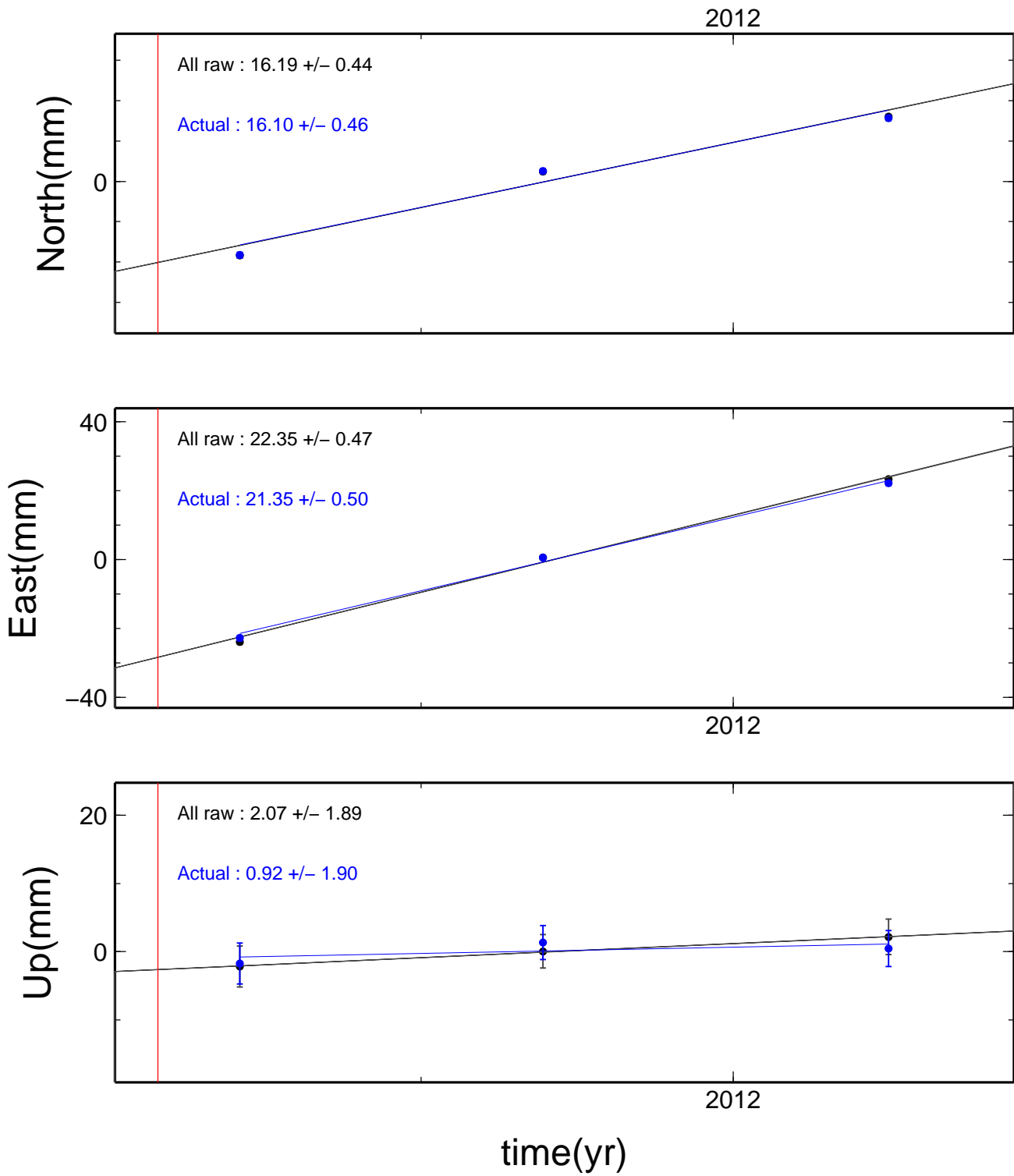
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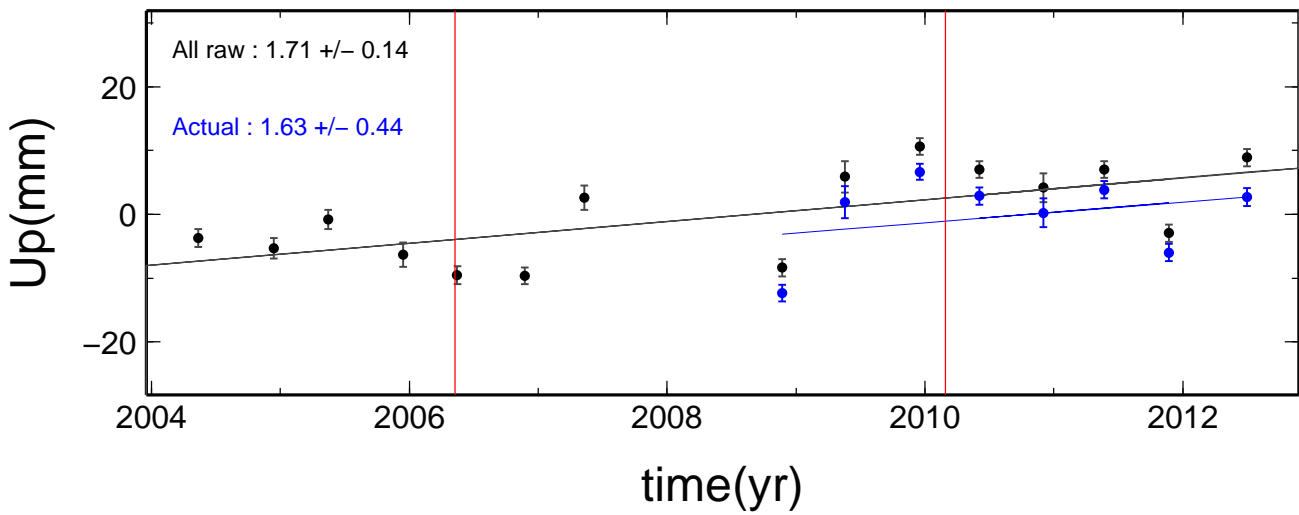
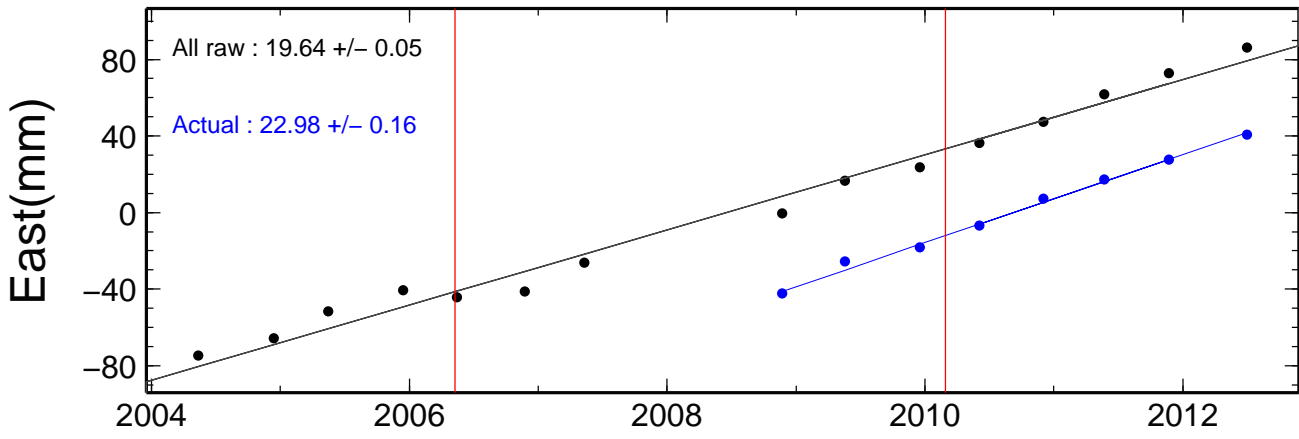
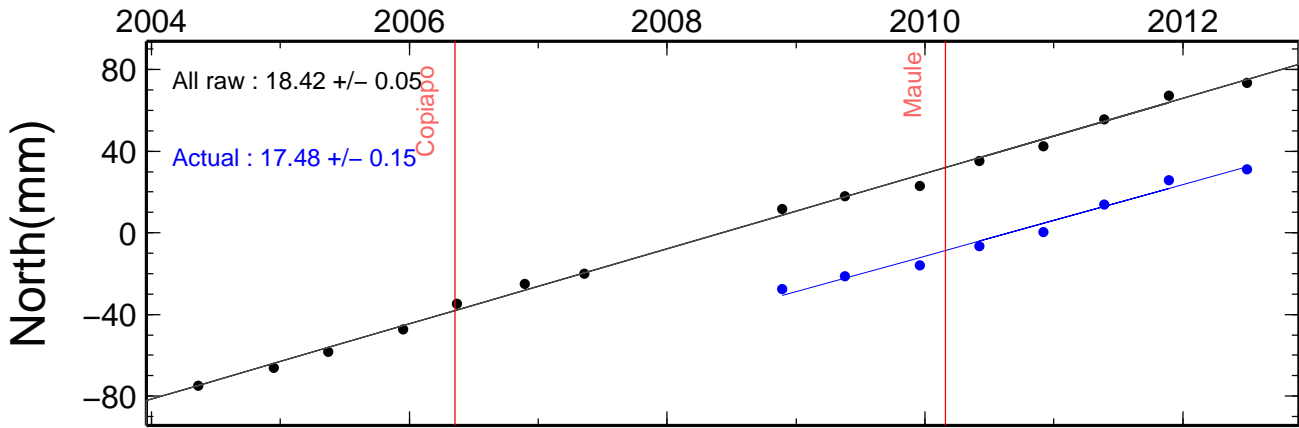
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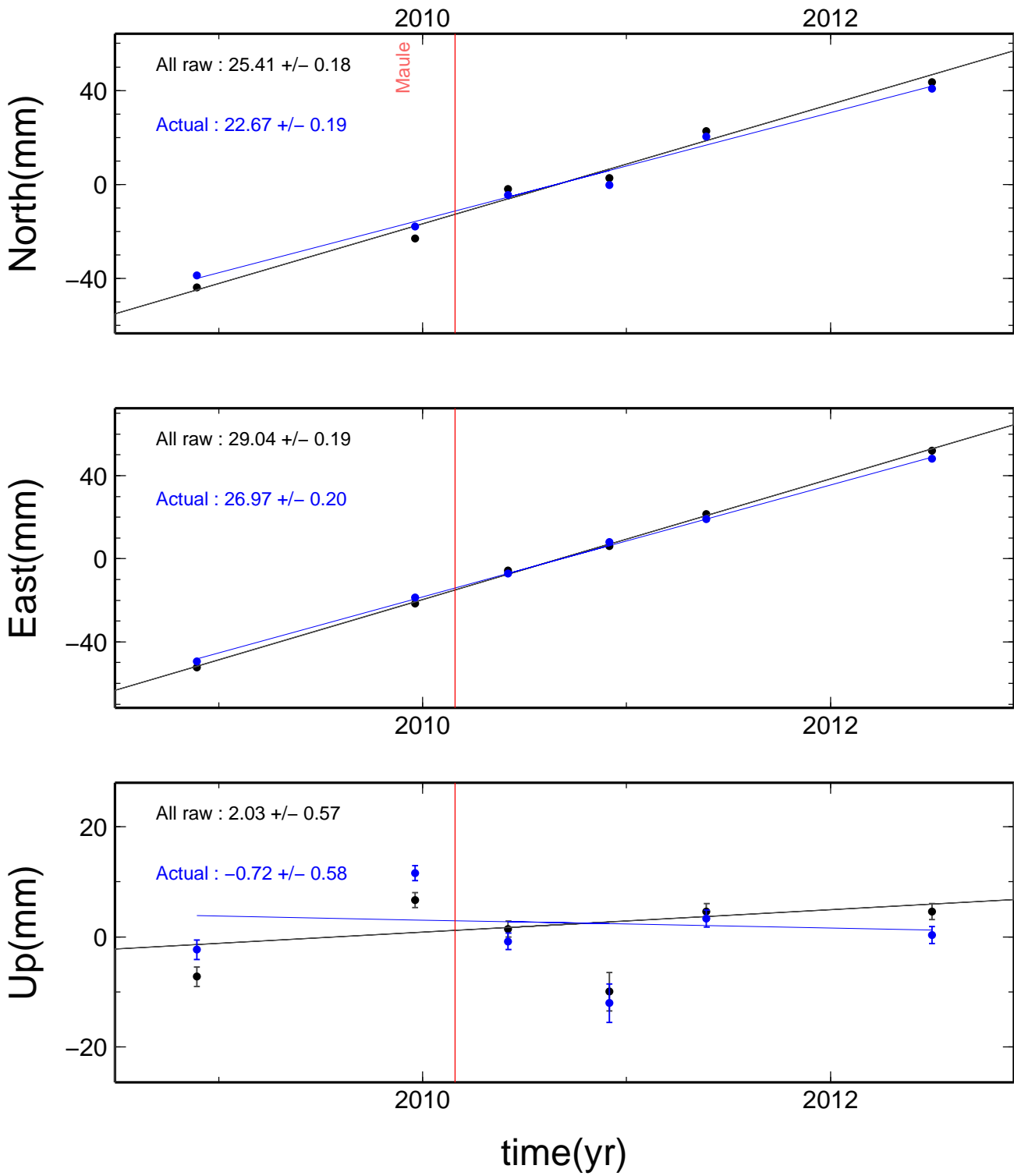
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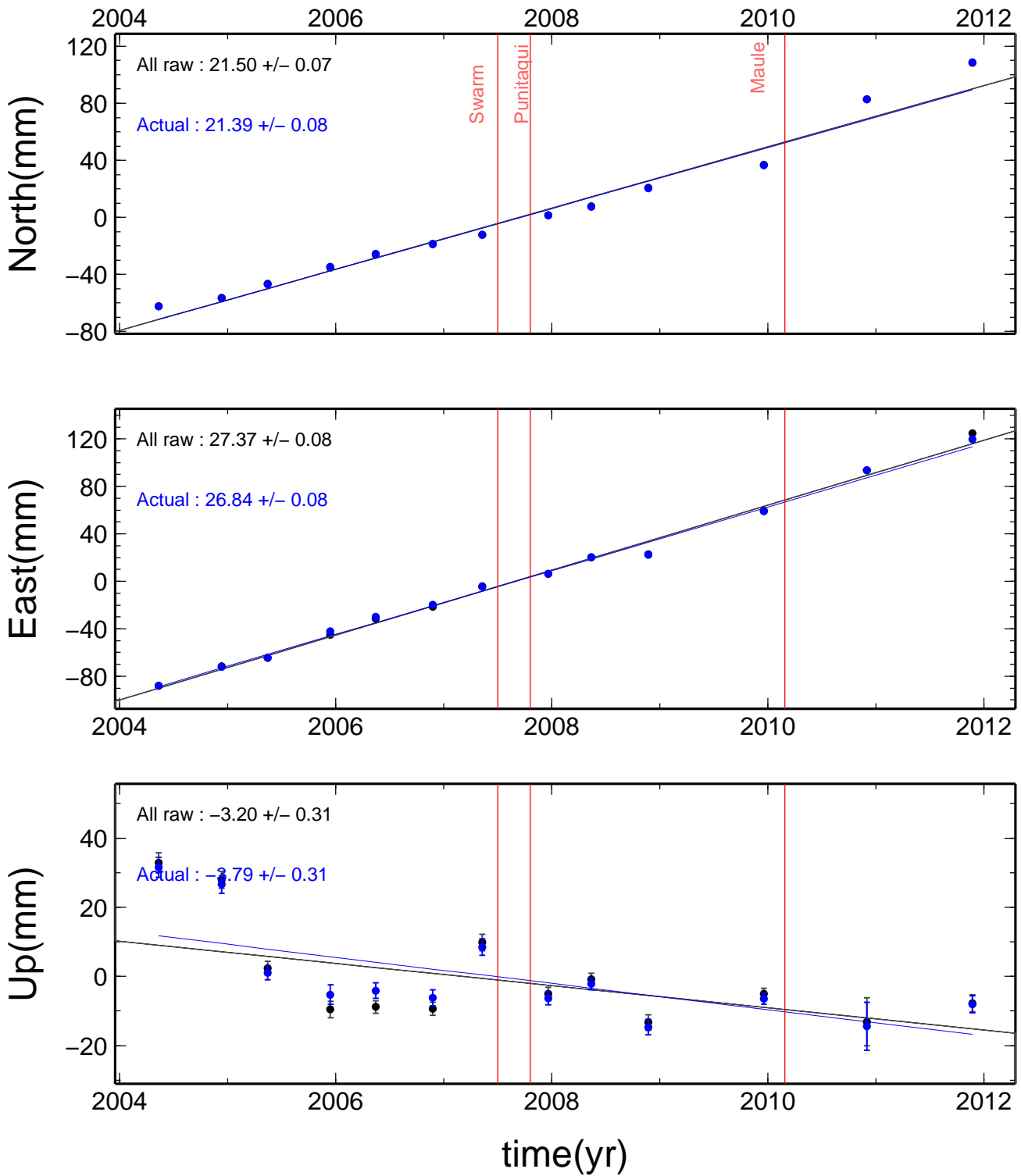
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CRZL

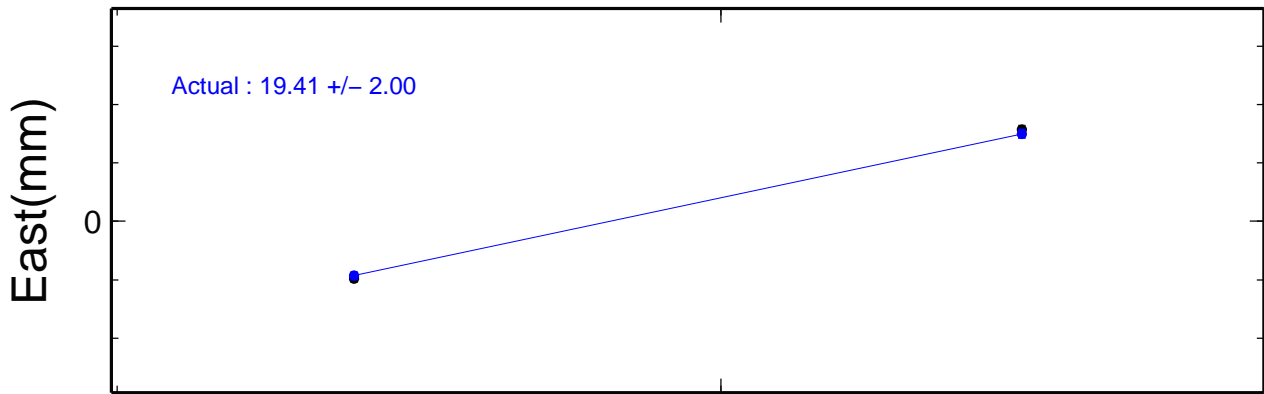
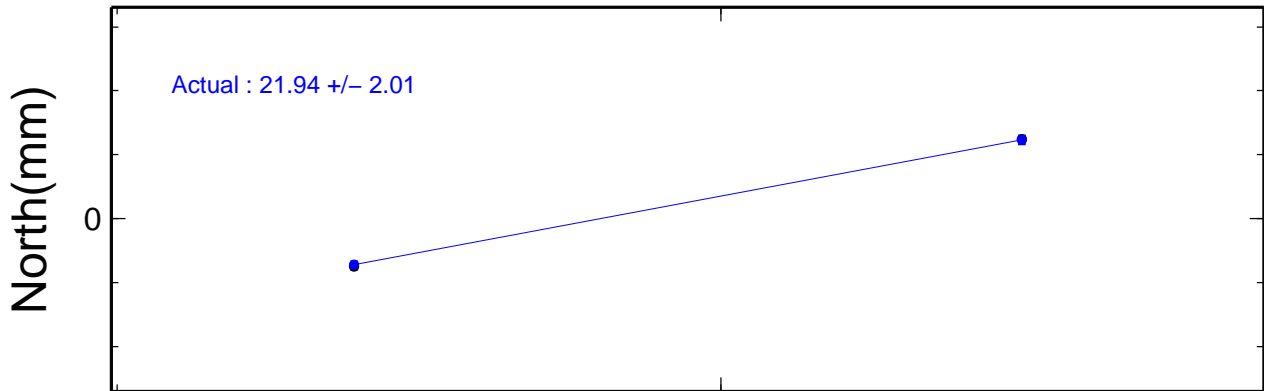


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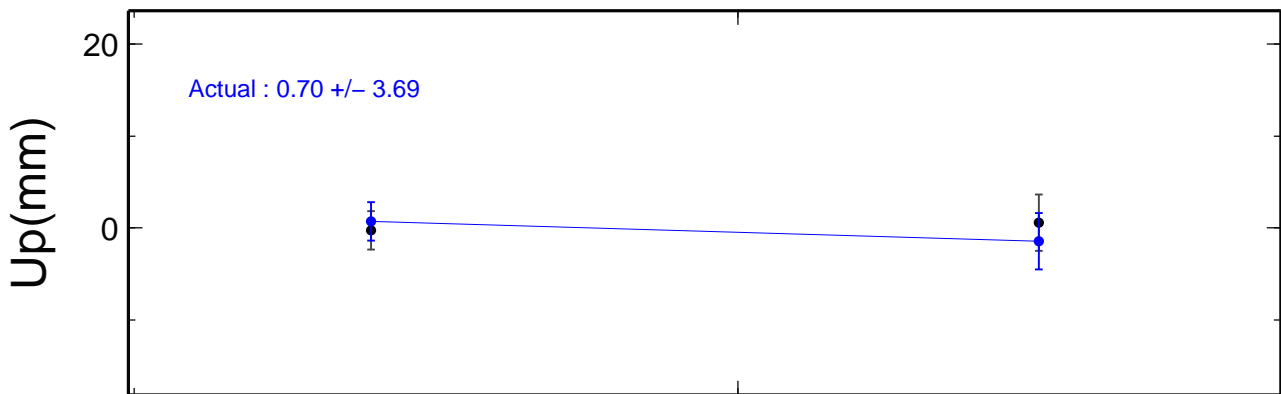


CZBA

2012



2012

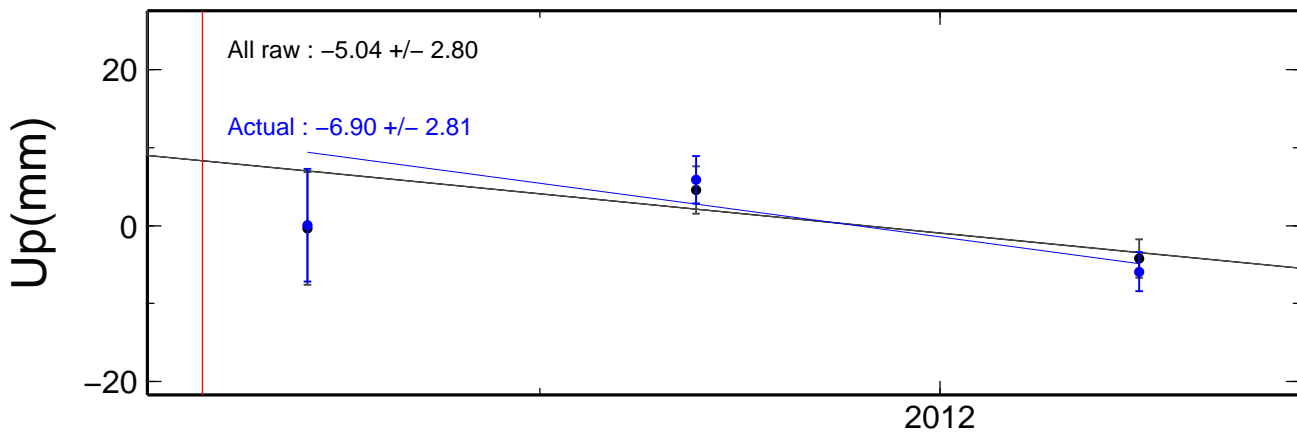
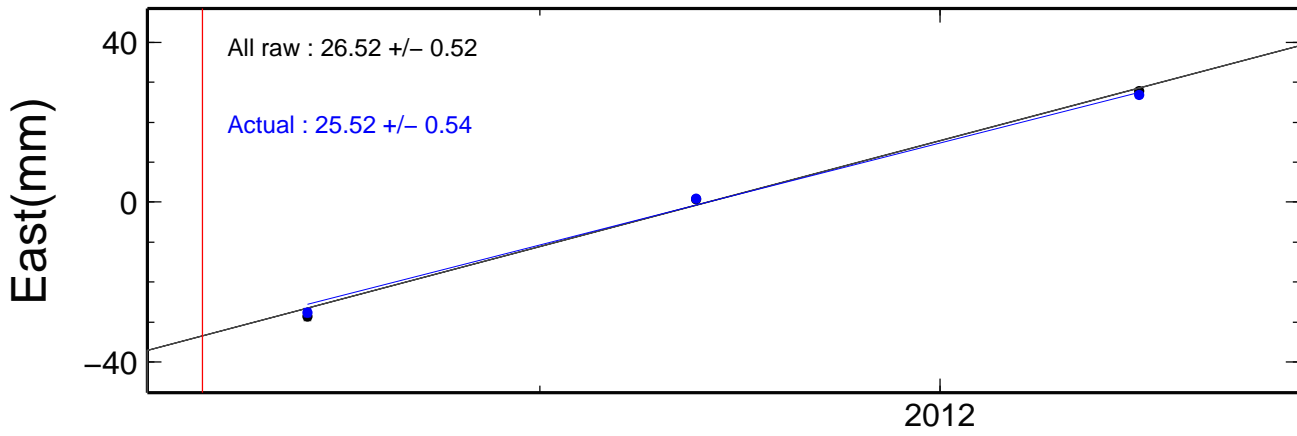
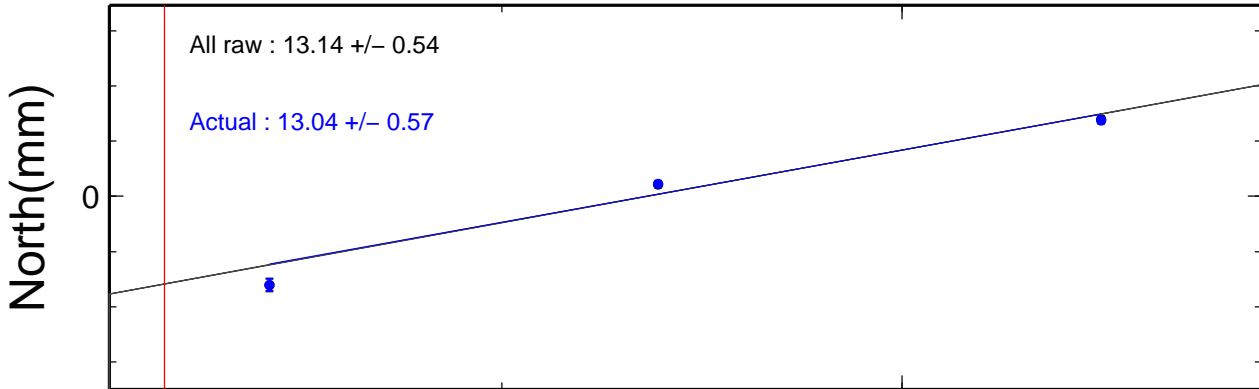


2012

time(yr)

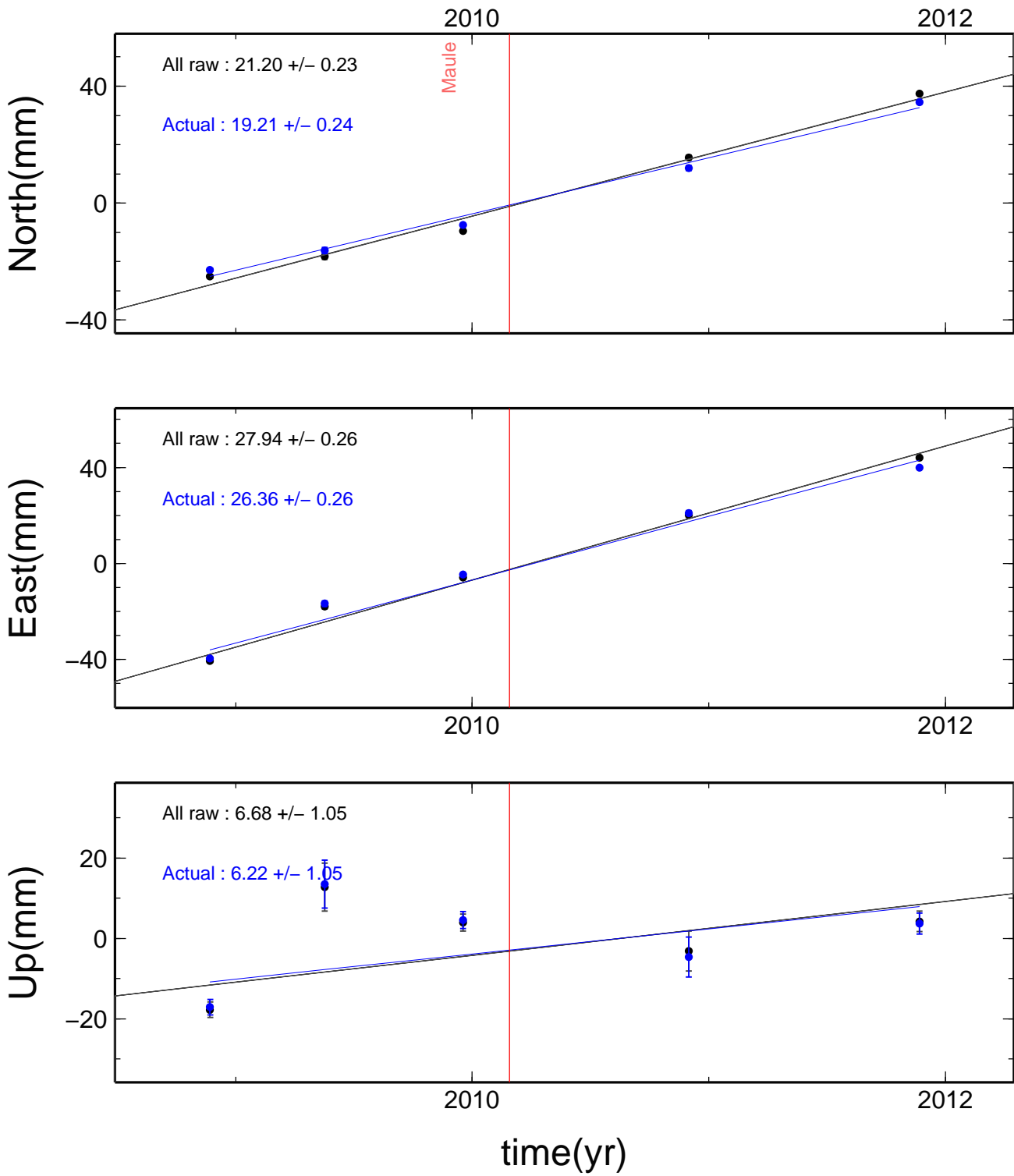
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2012

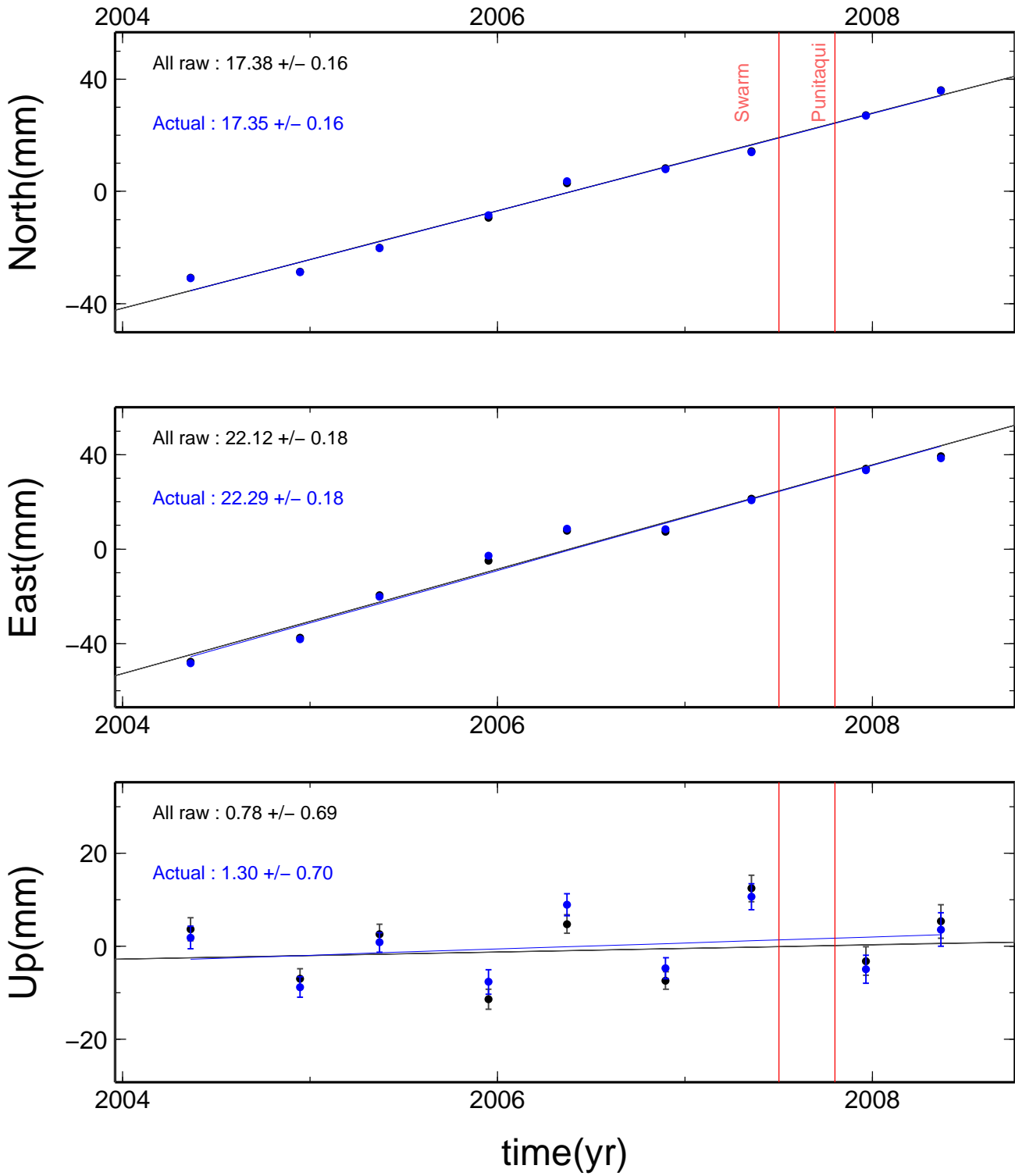


time(yr)

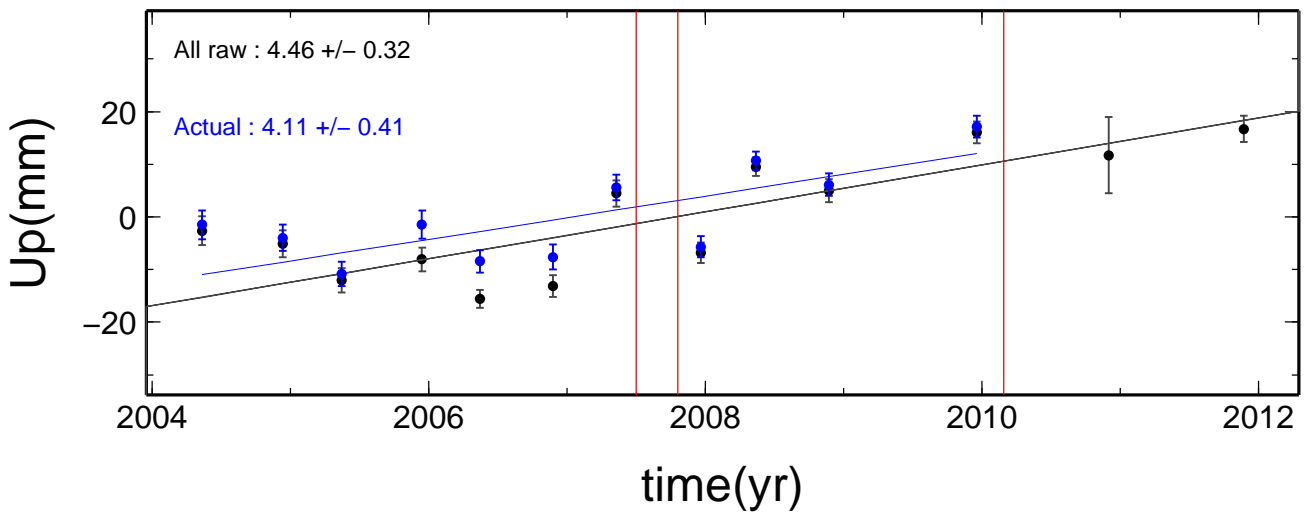
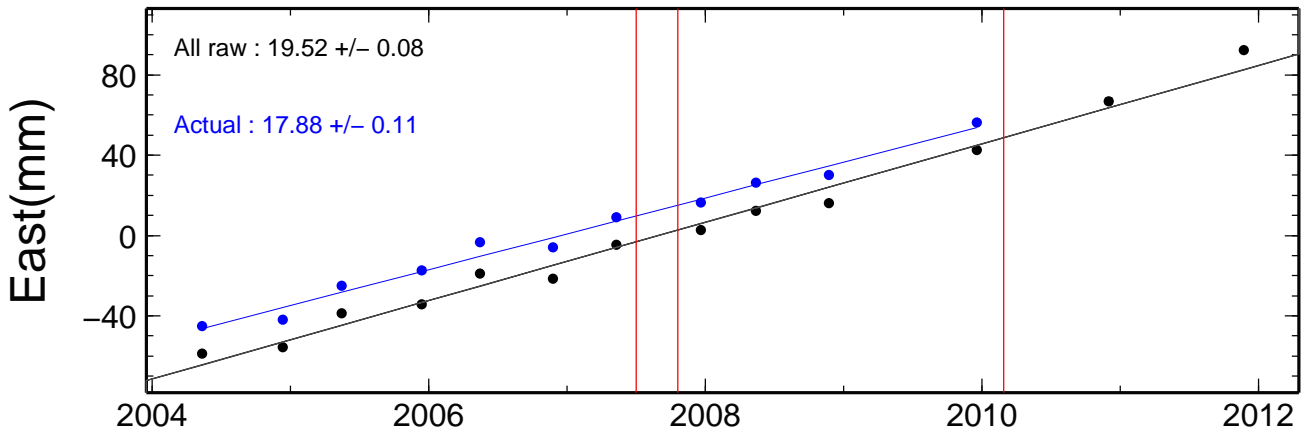
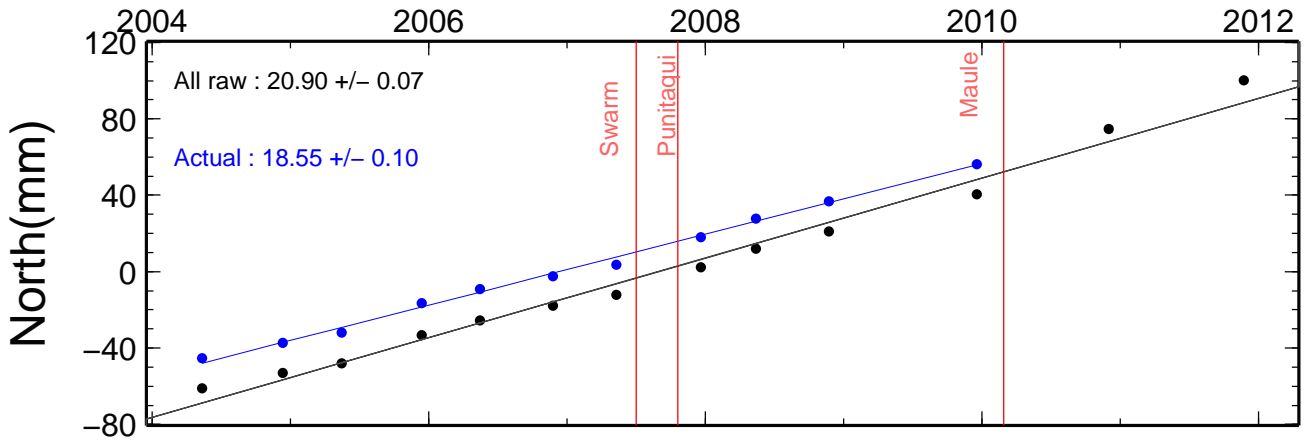
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EALM

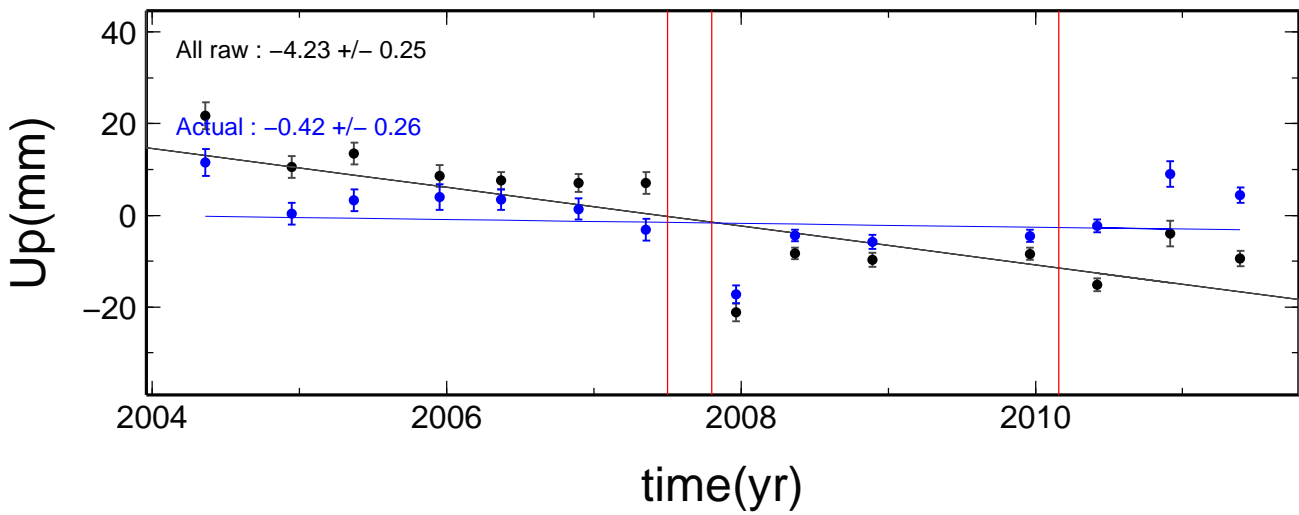
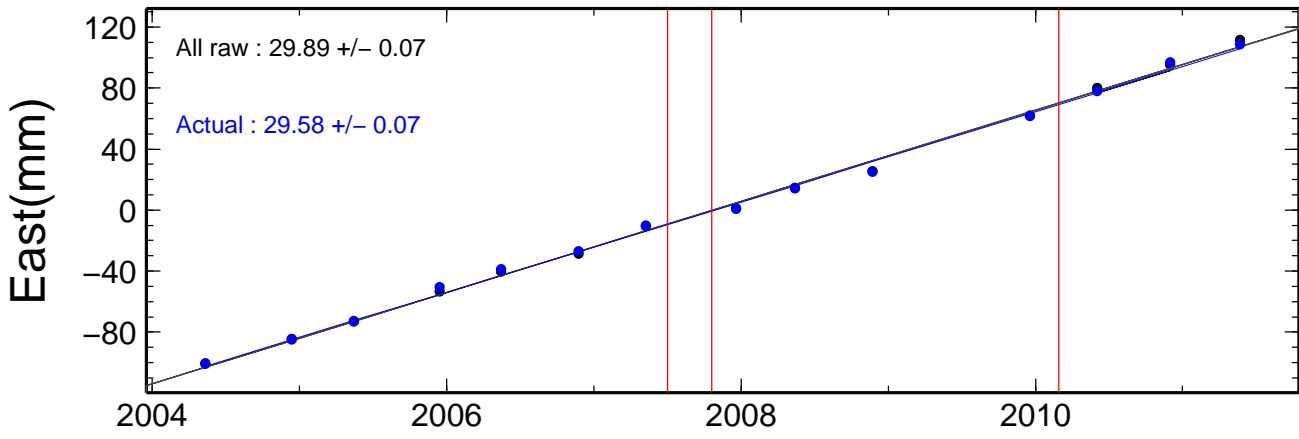
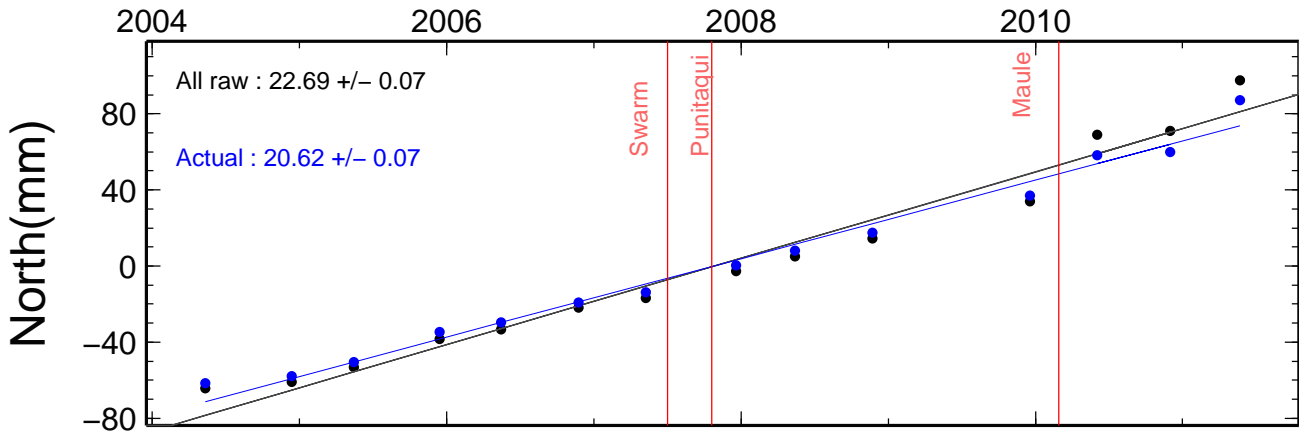


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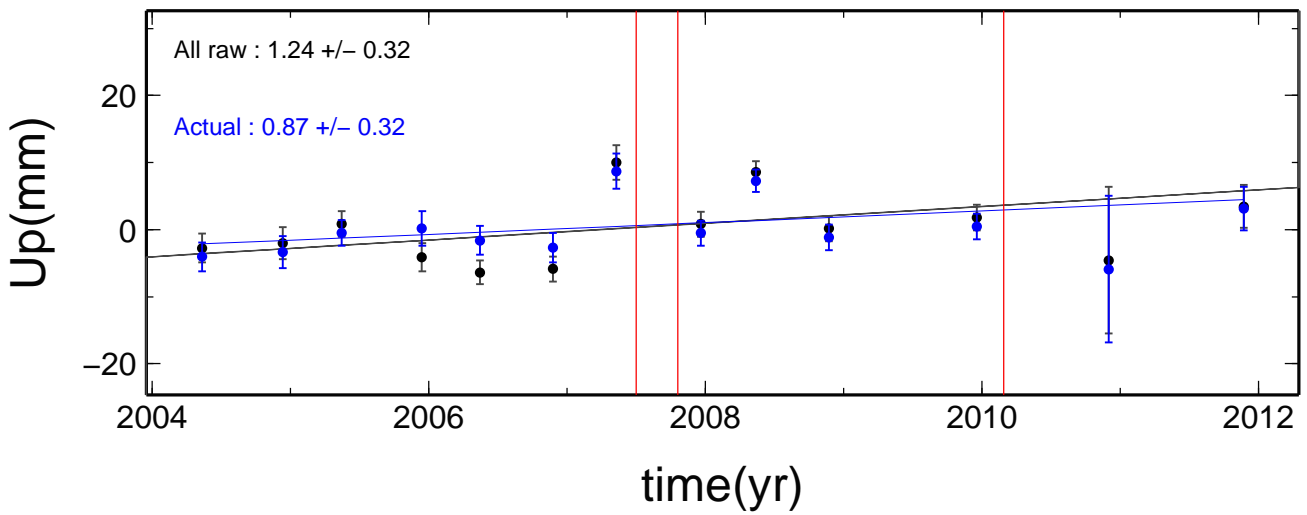
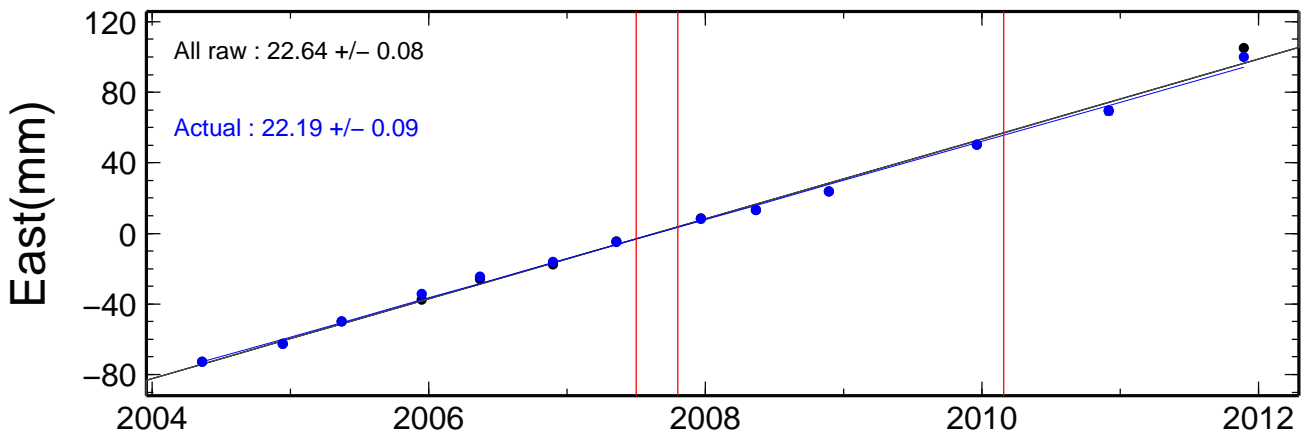
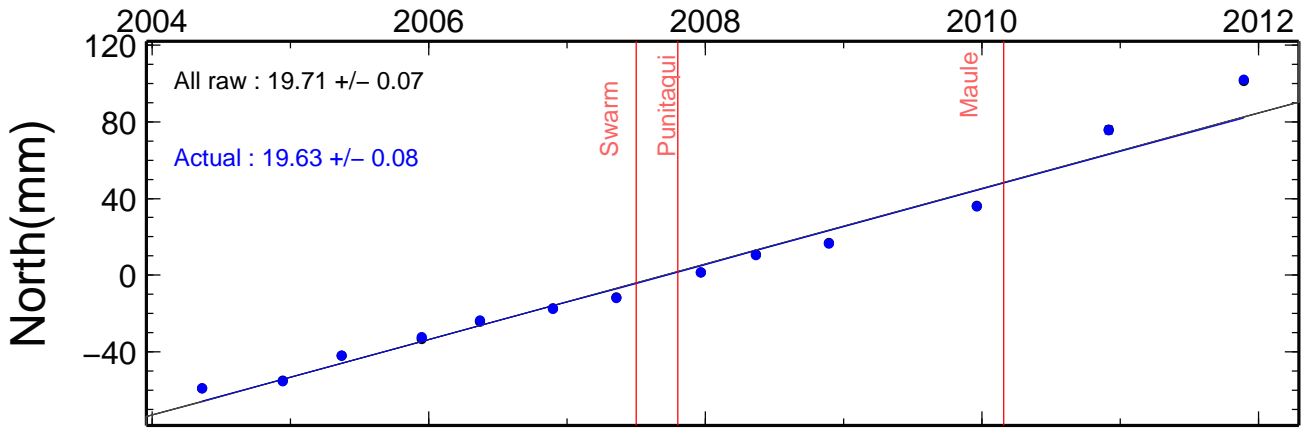


time(yr)

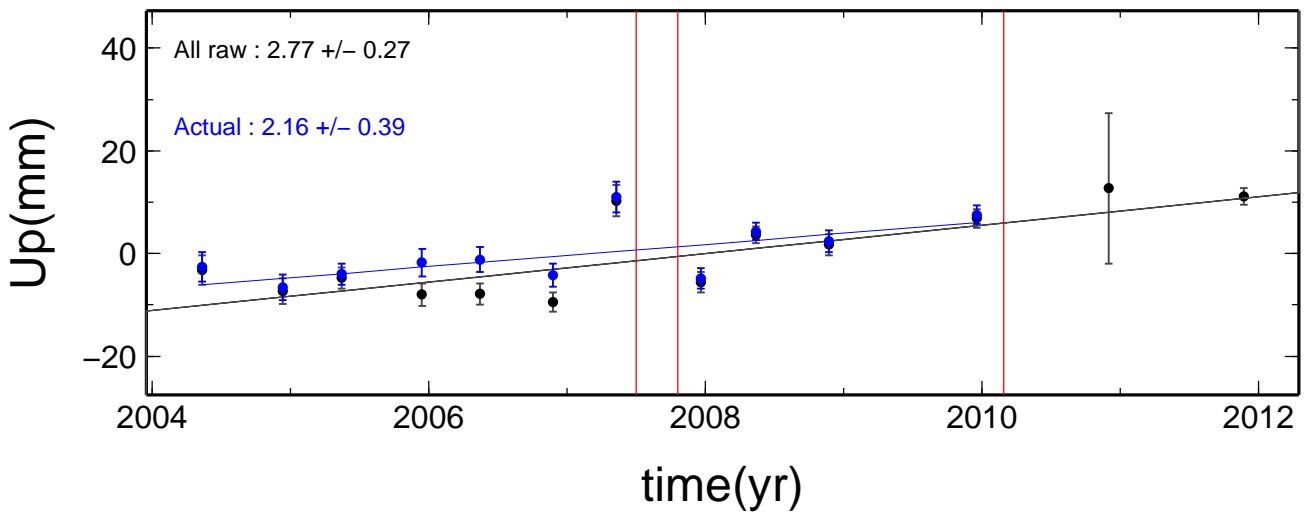
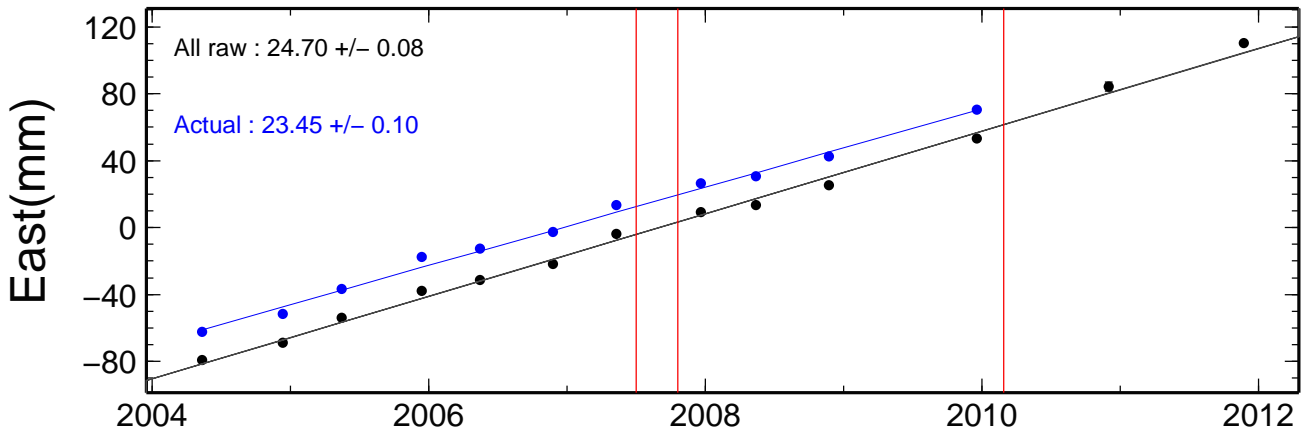
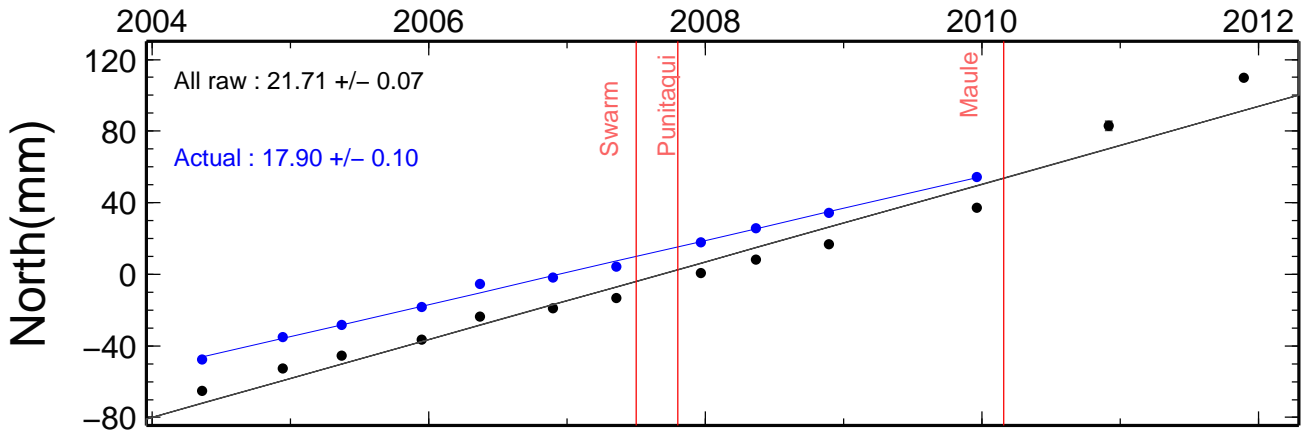
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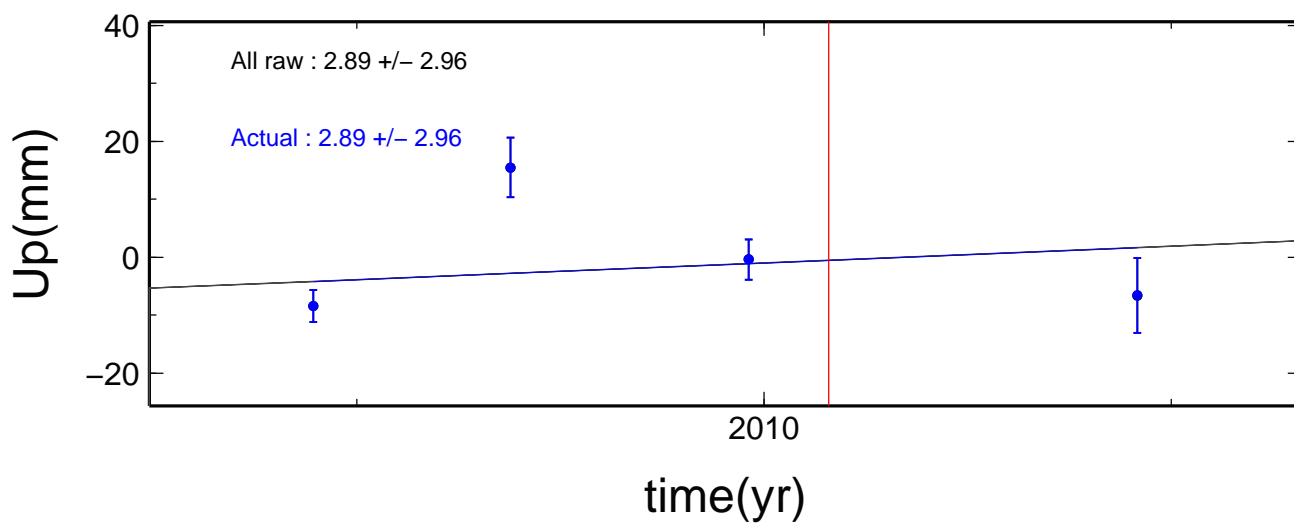
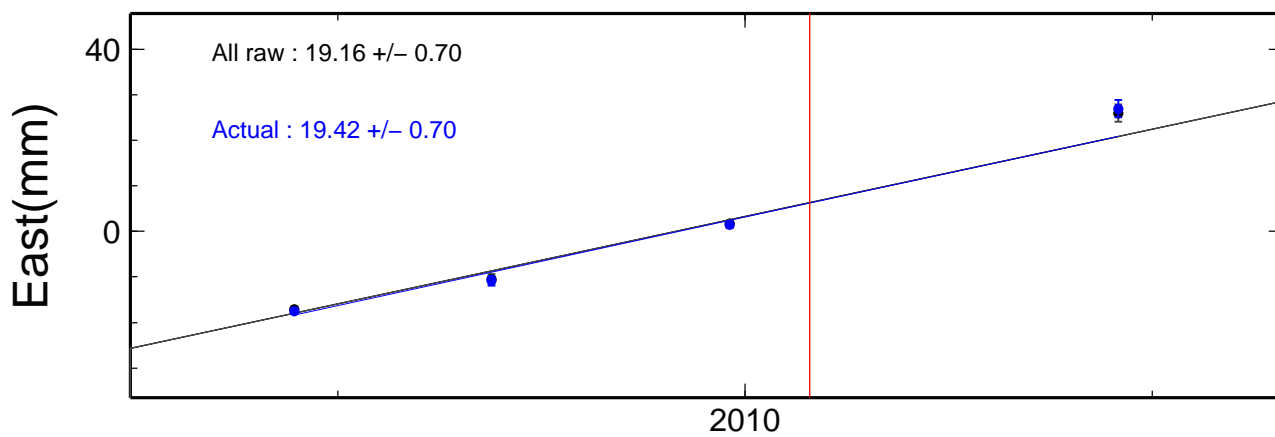
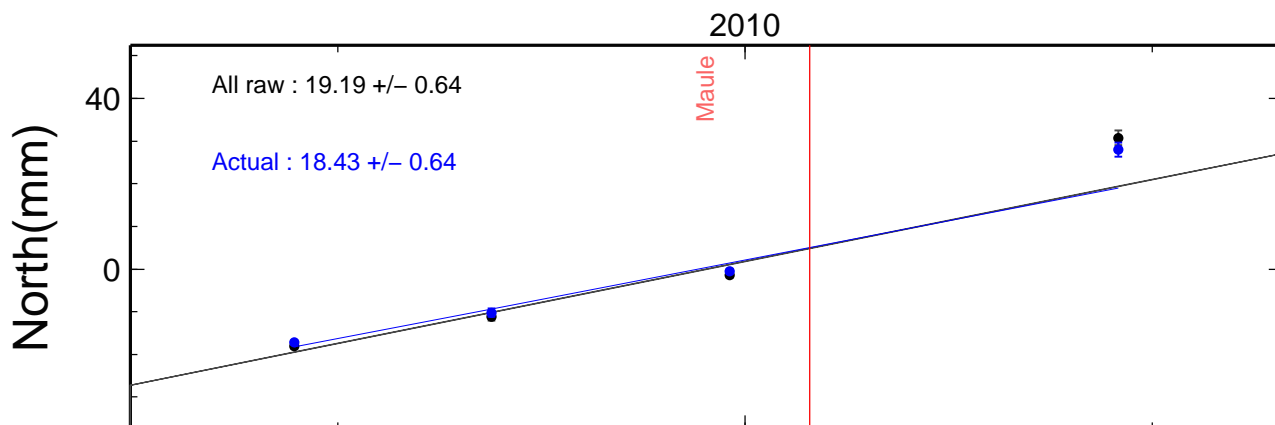
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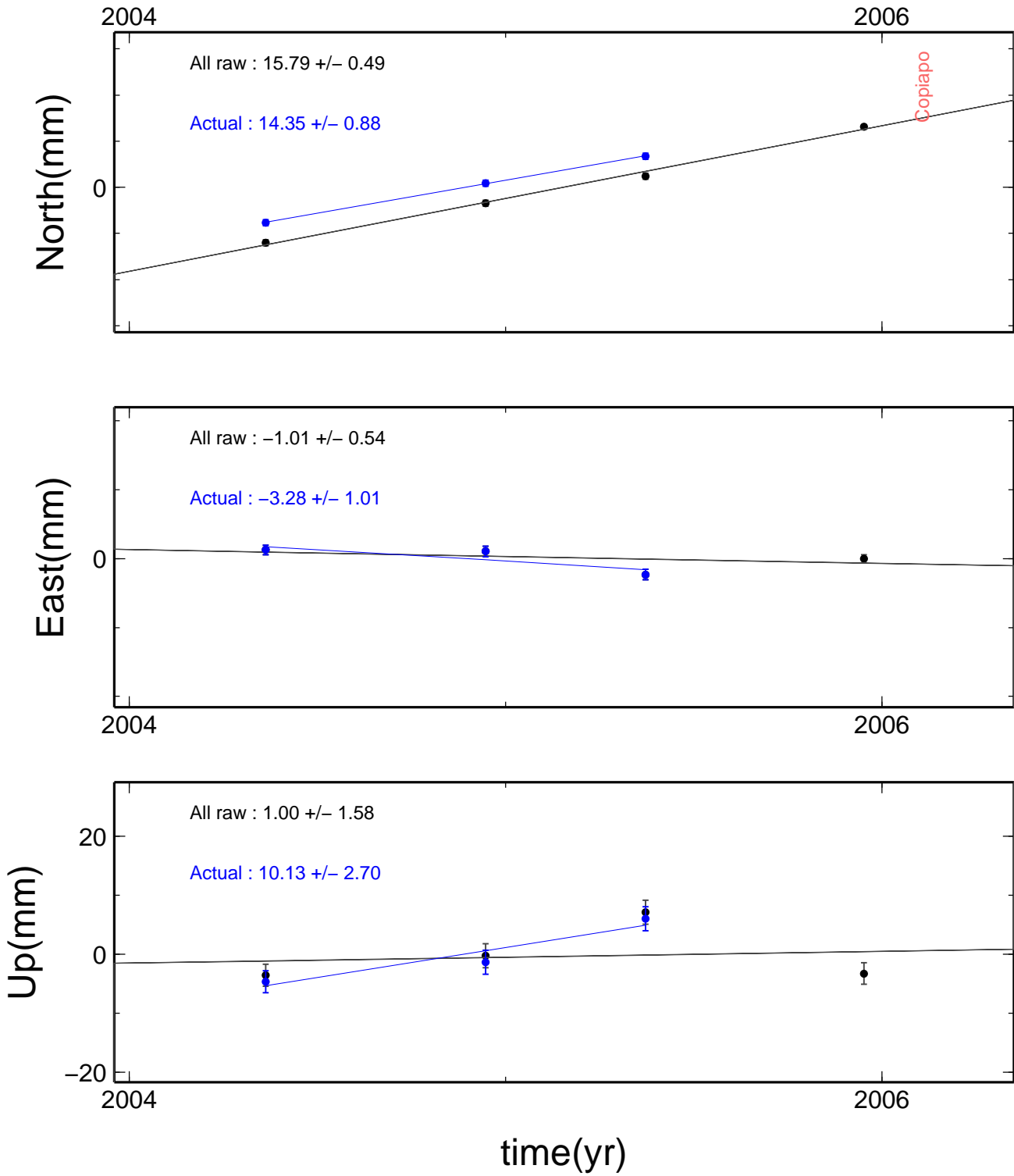
ESPI



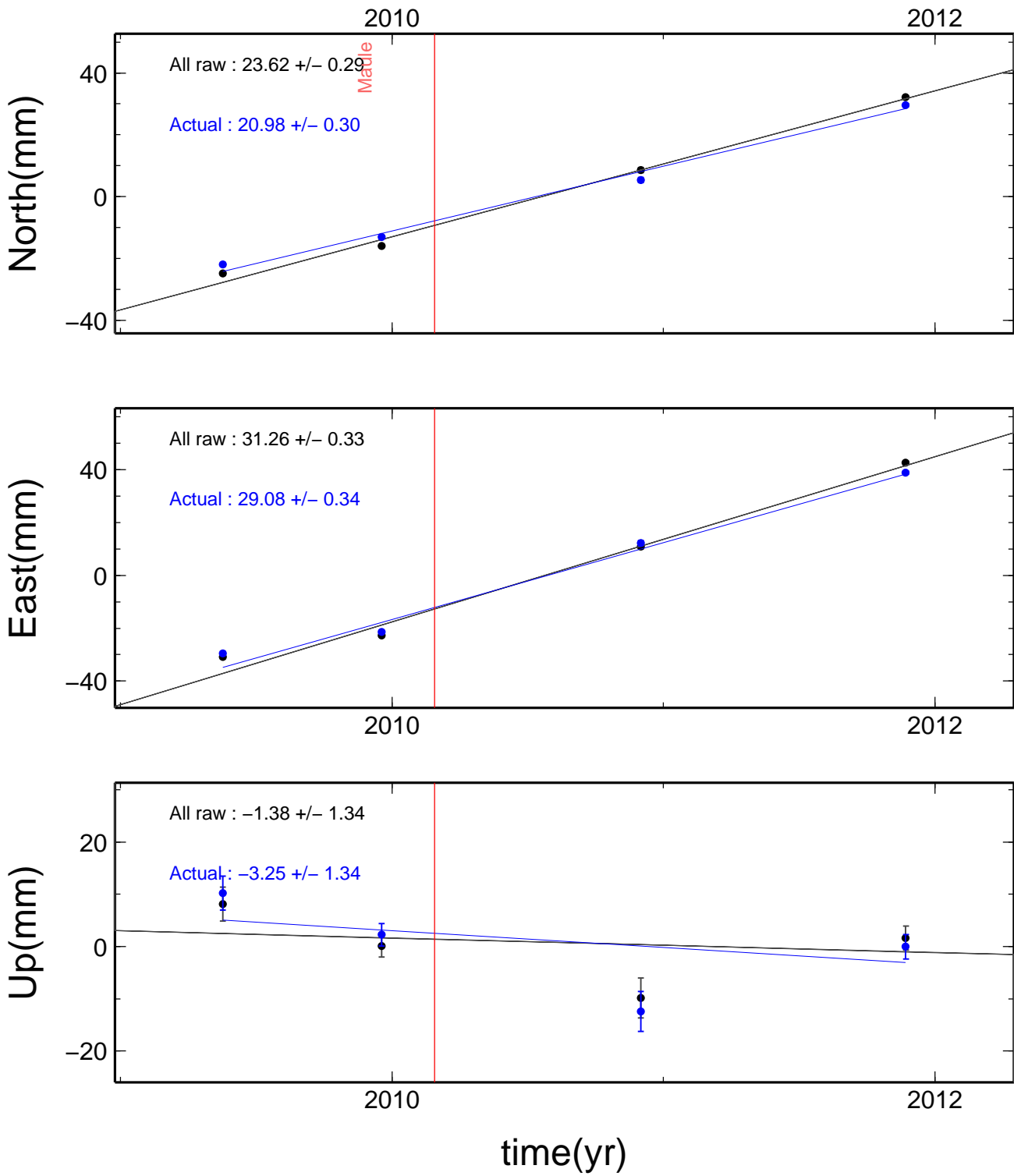
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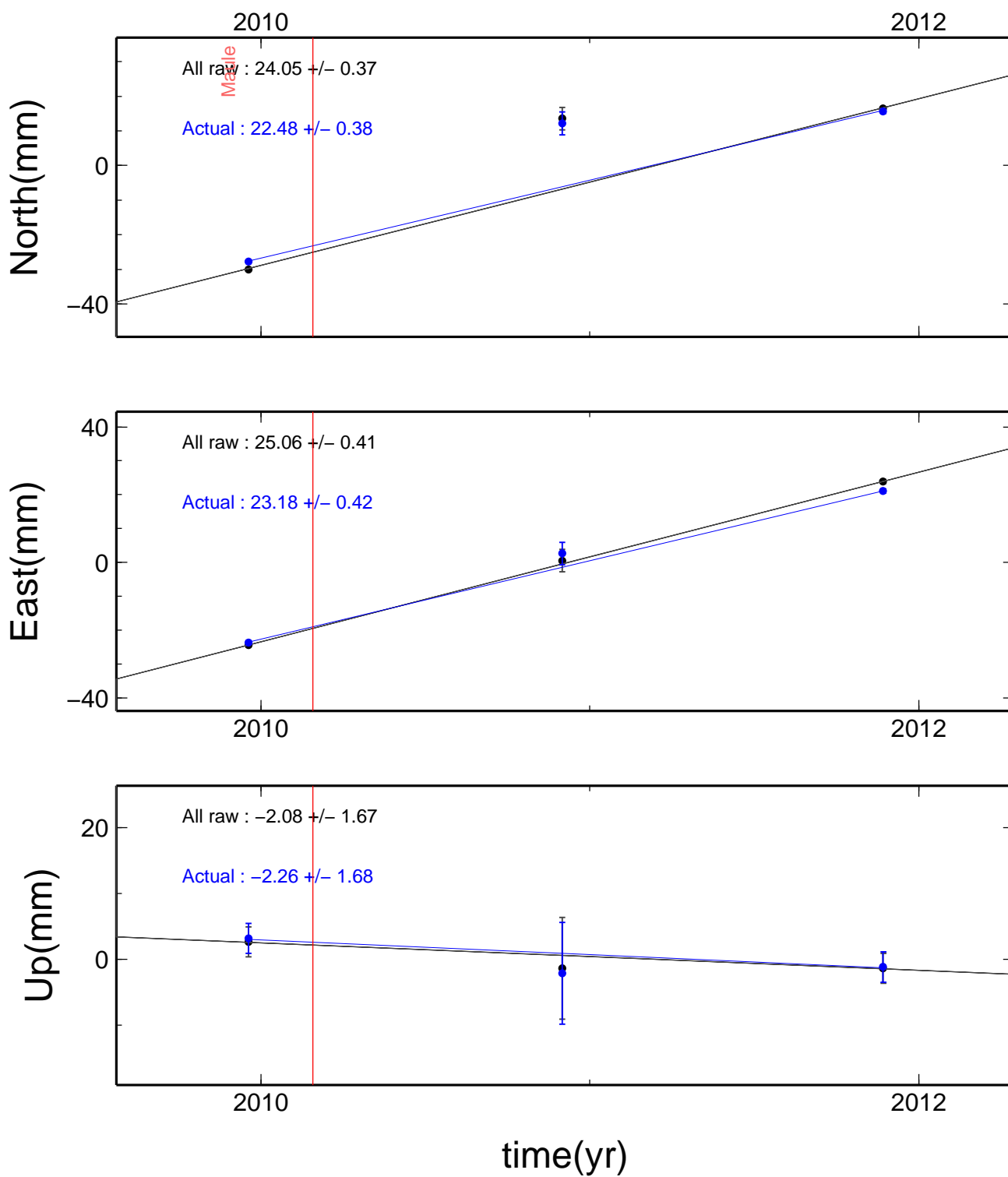
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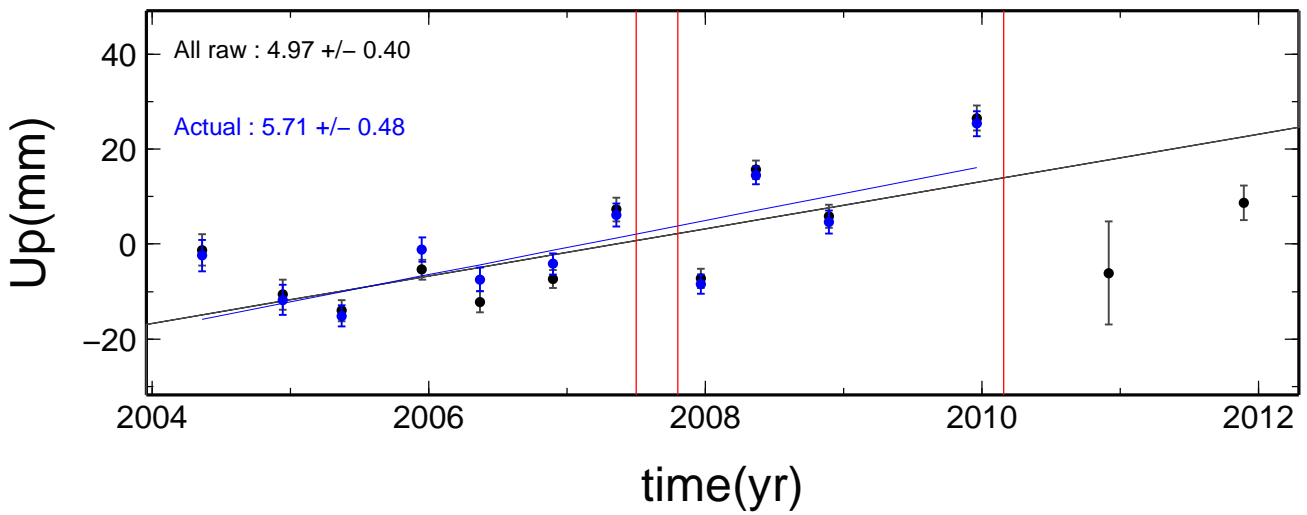
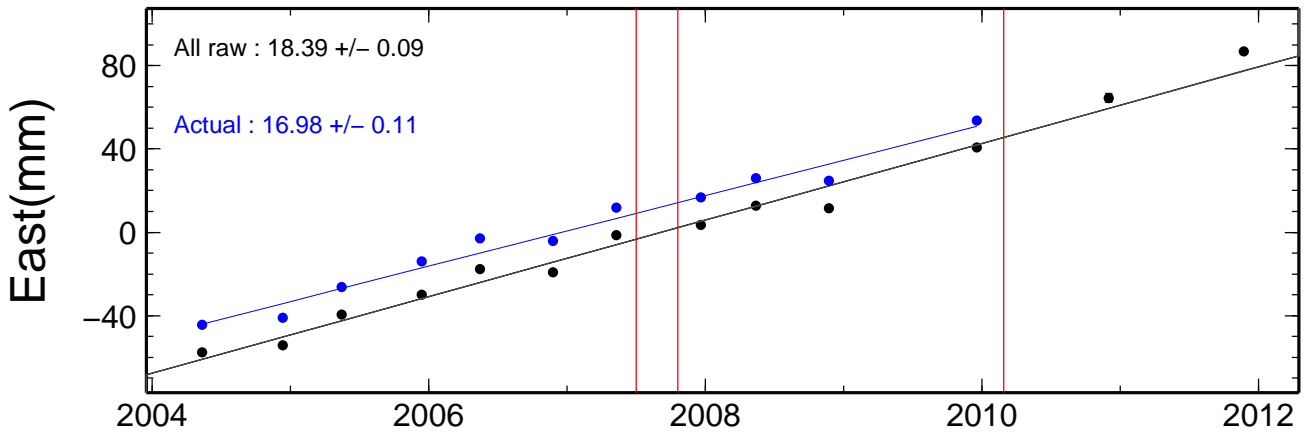
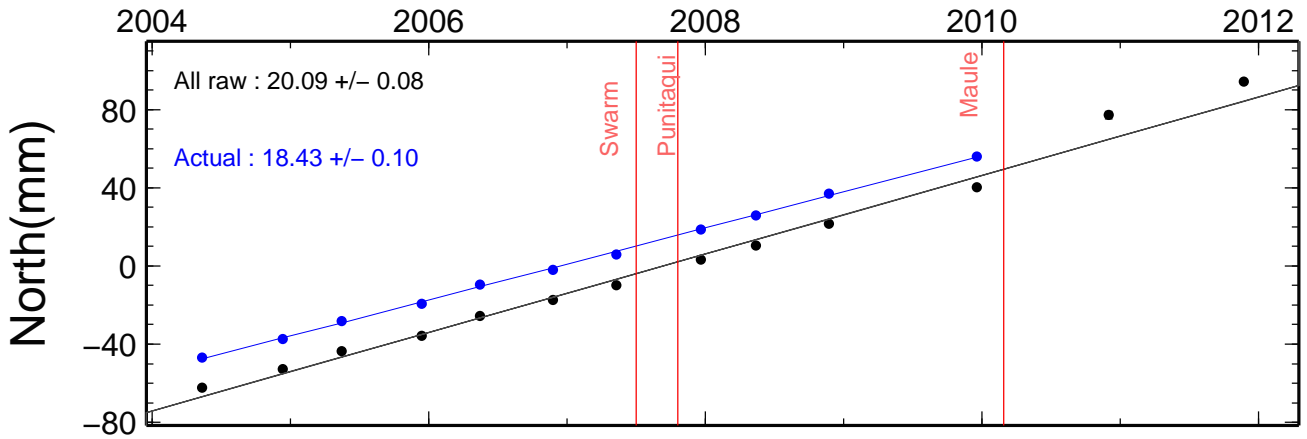
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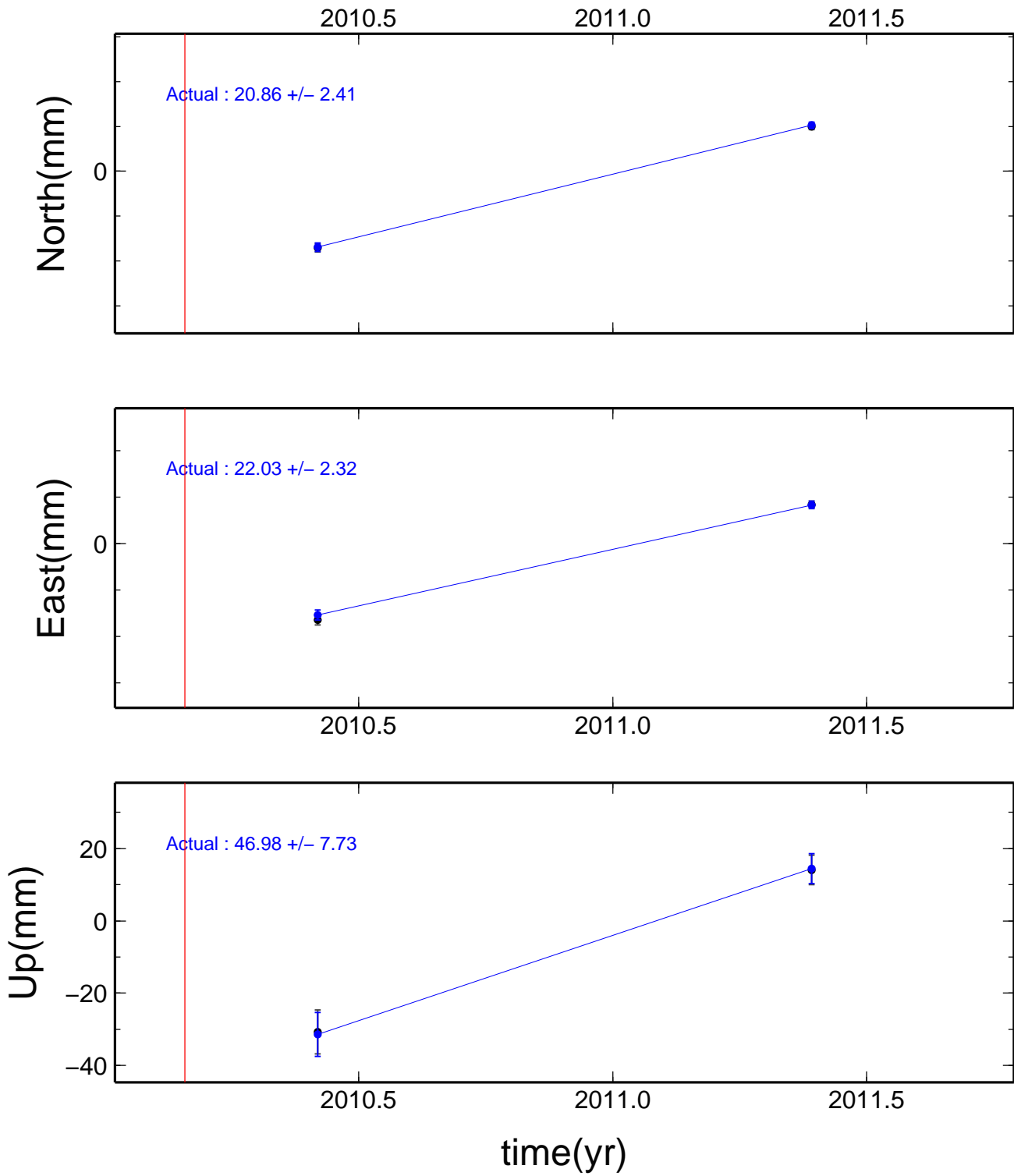
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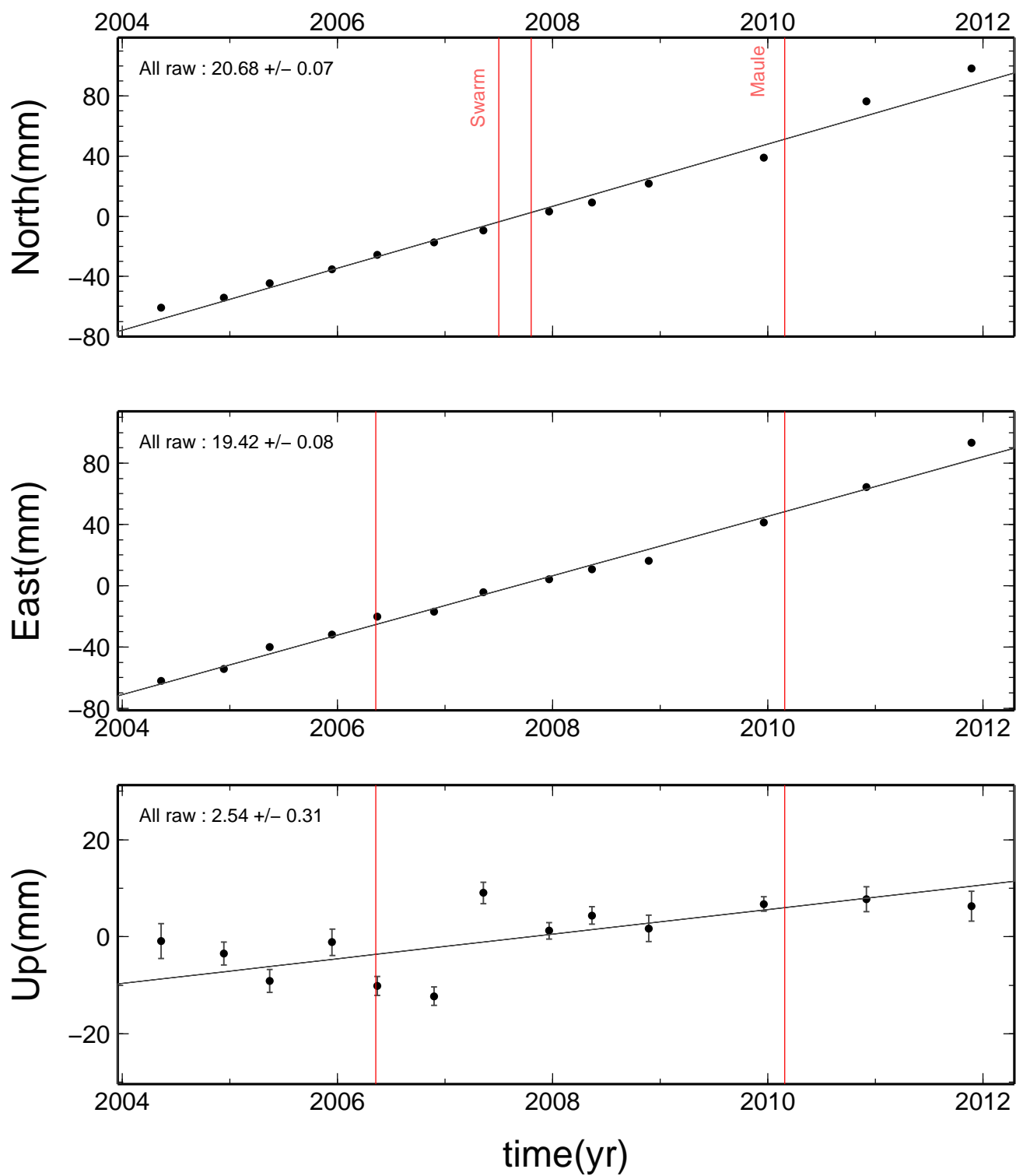
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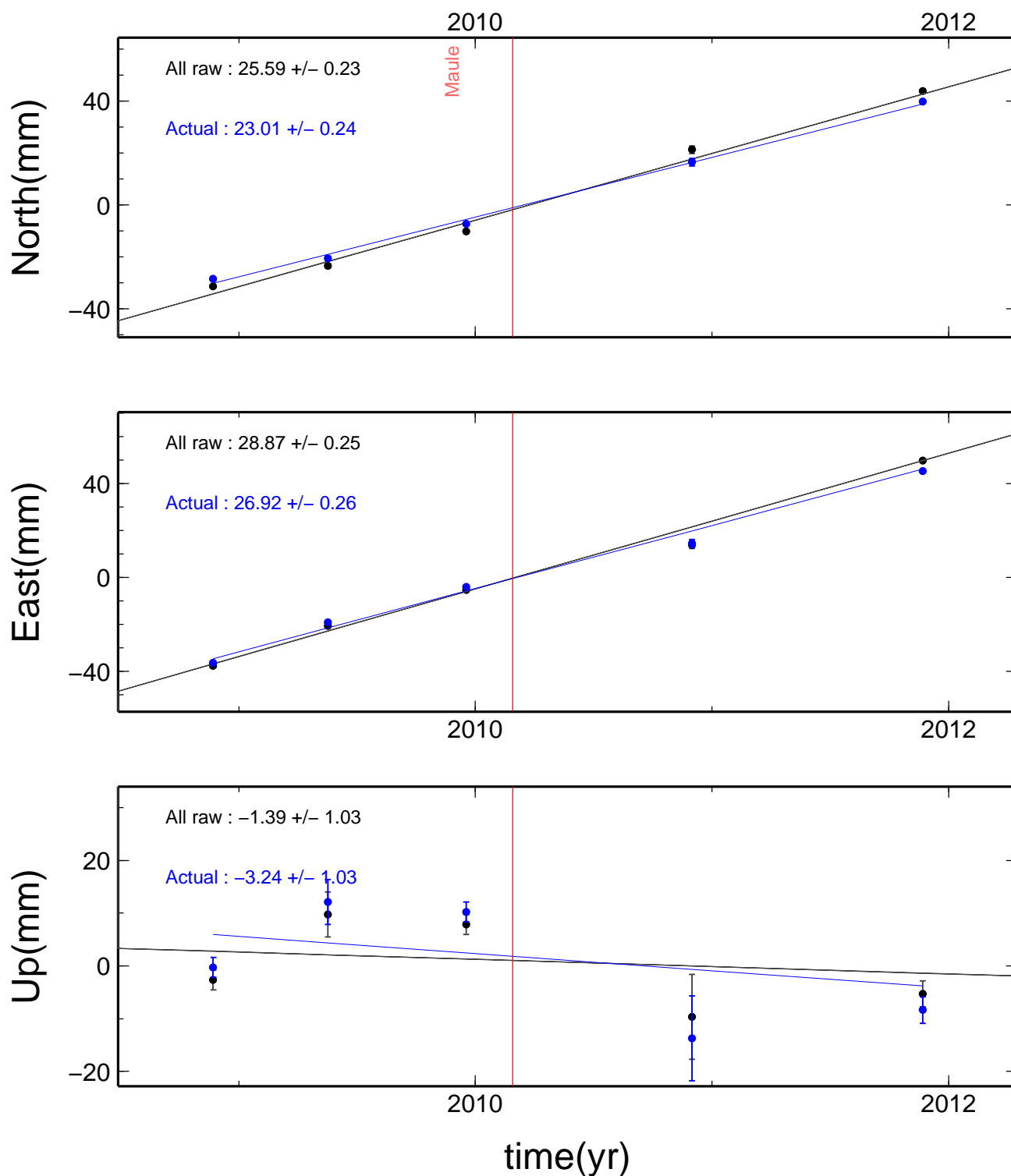
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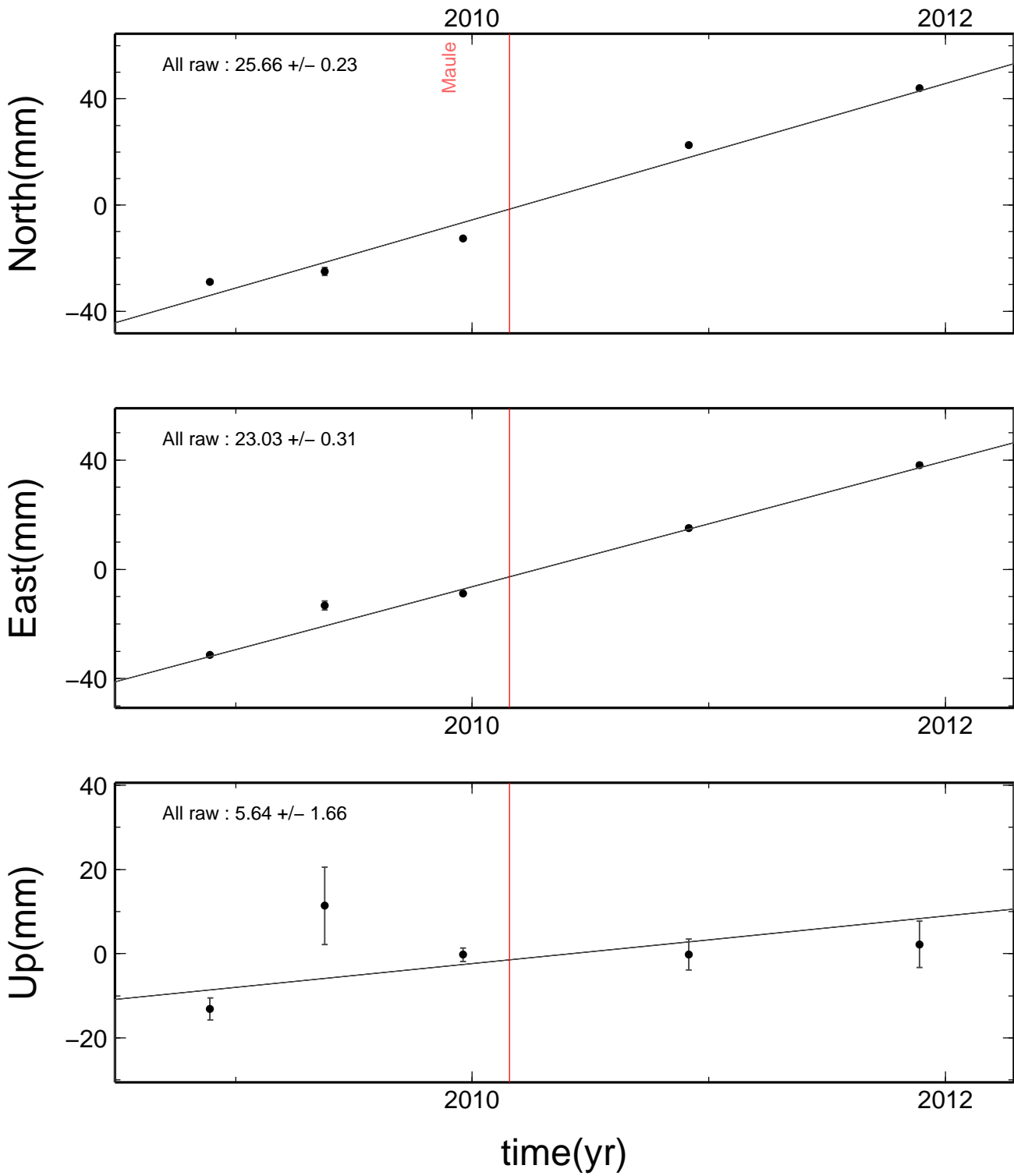
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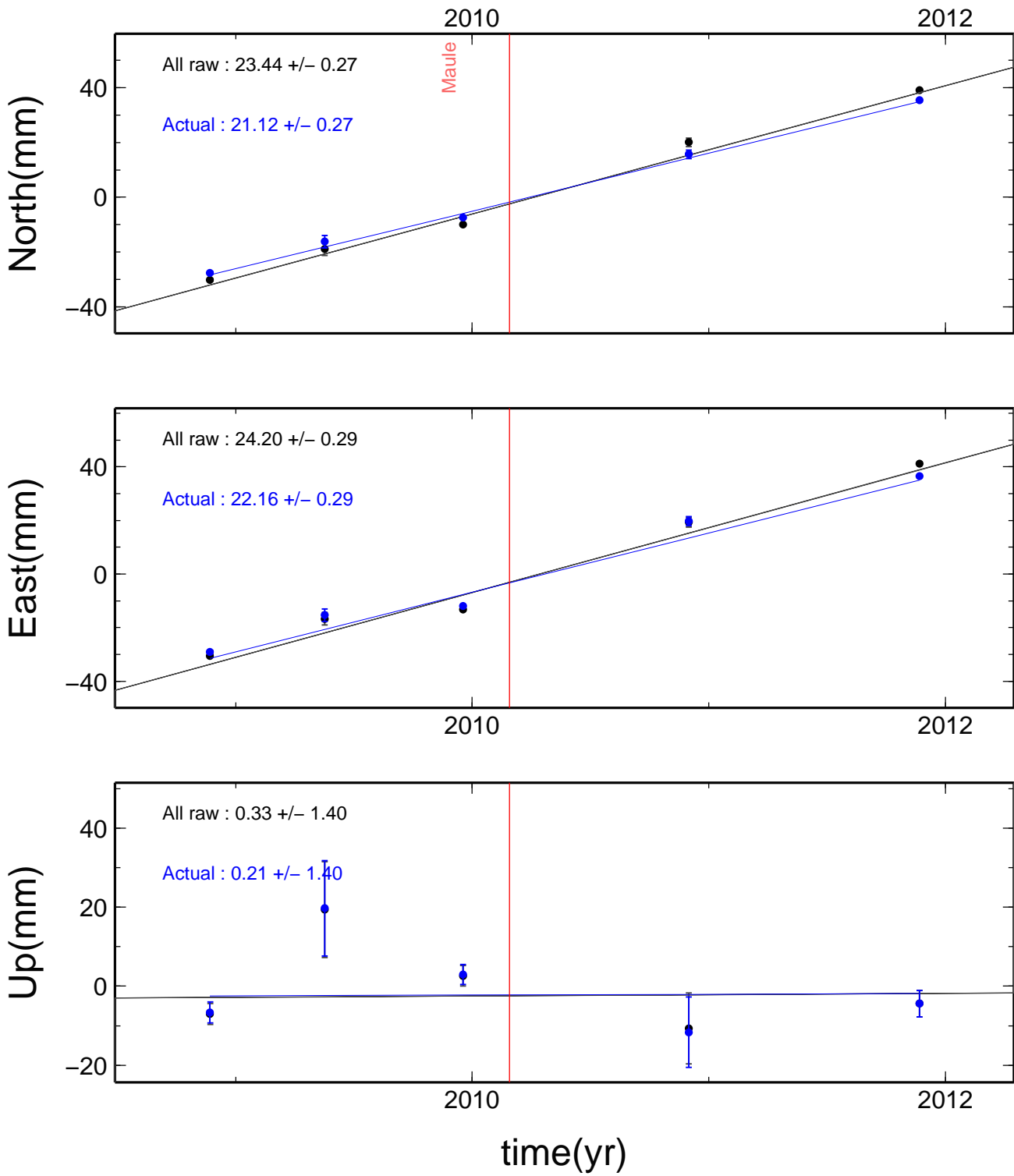
HGRT



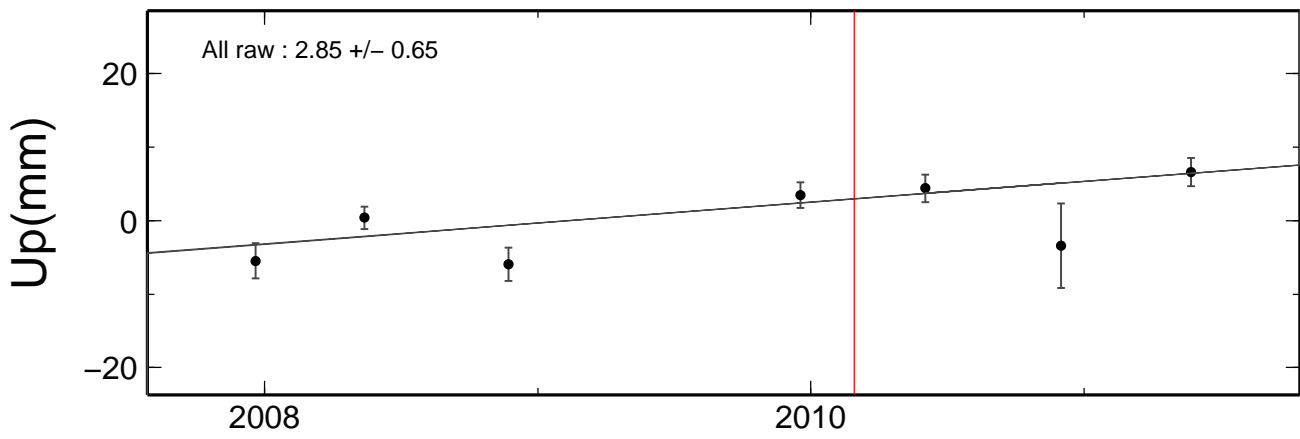
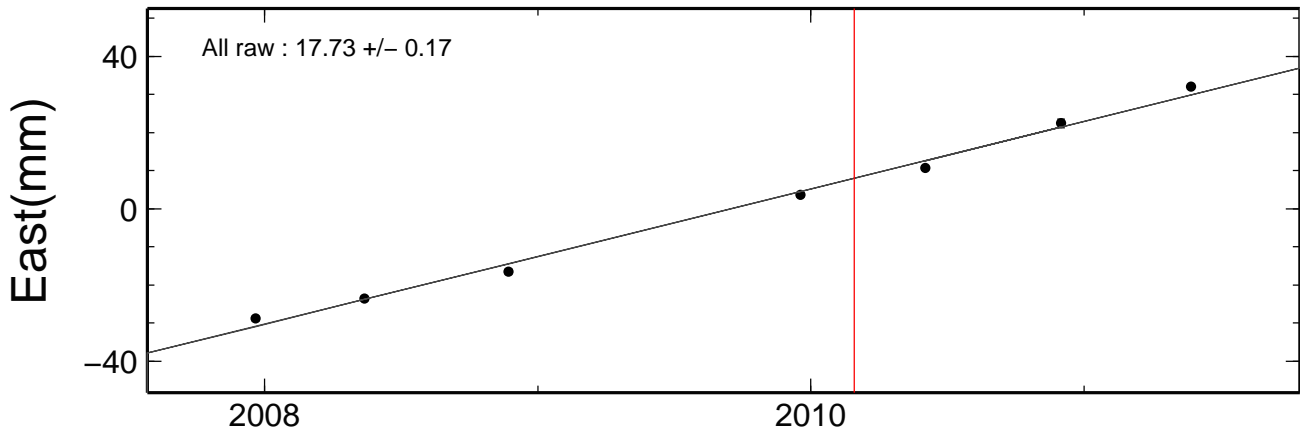
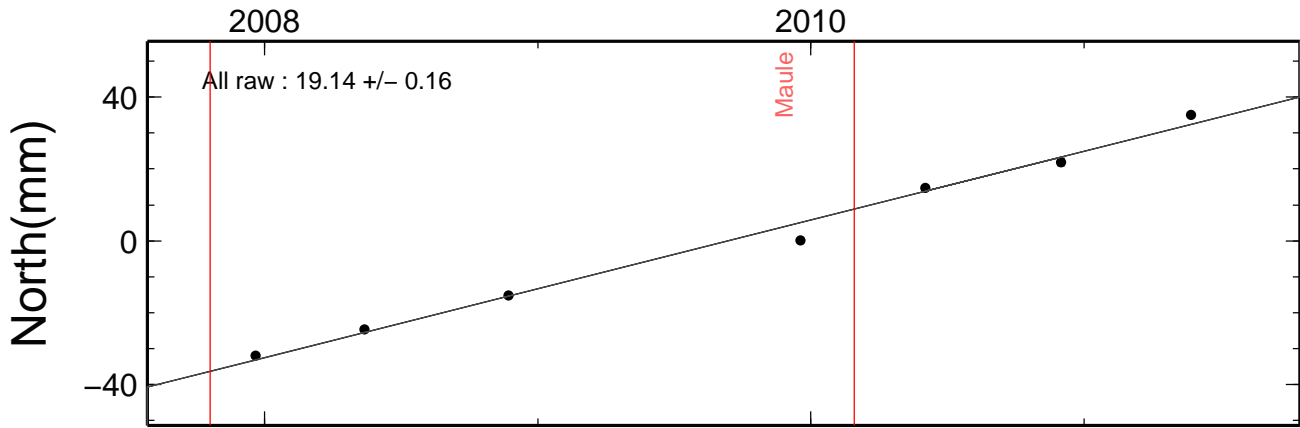
HORN



INCA

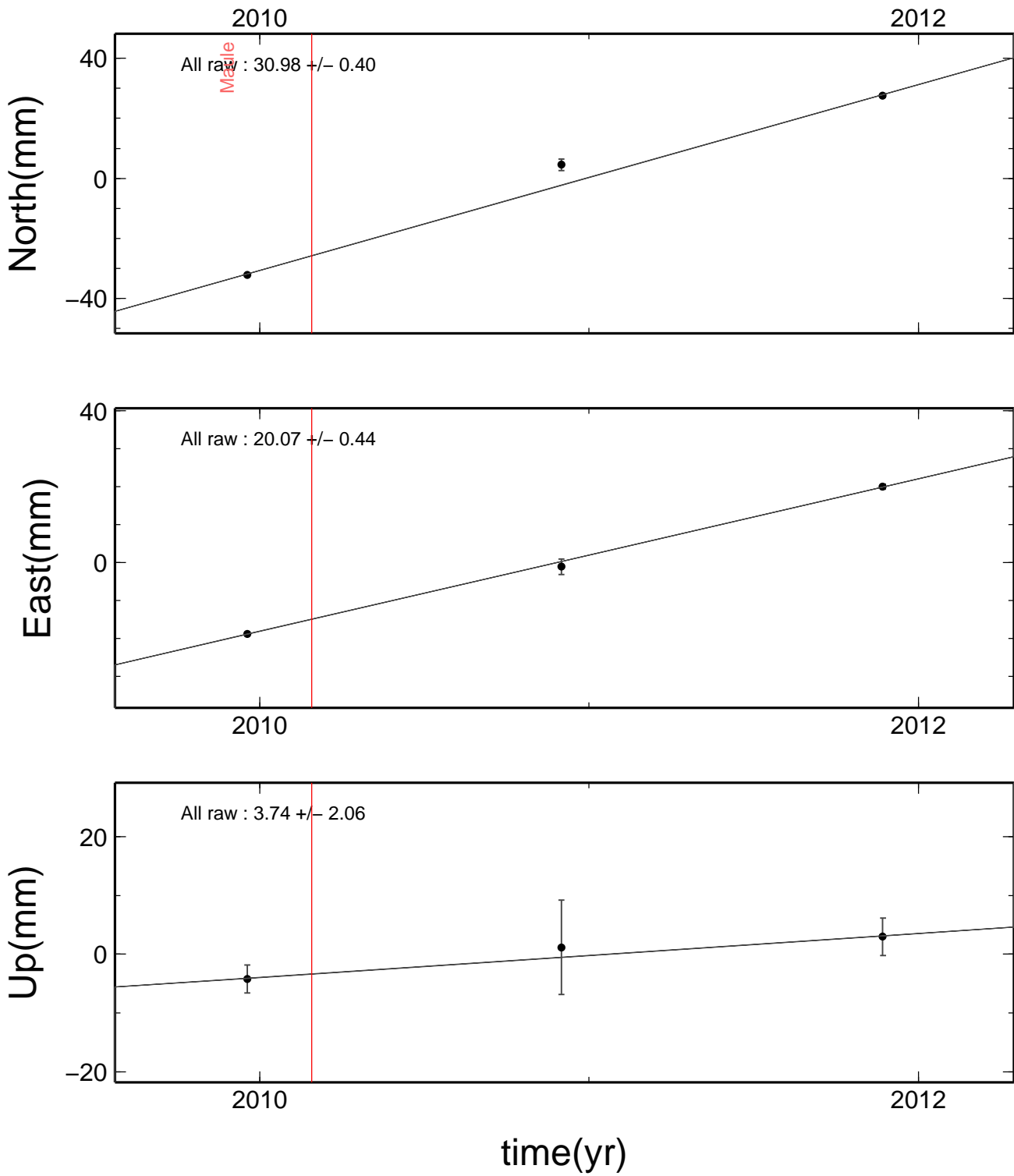


JUNT



time(yr)

LAMB

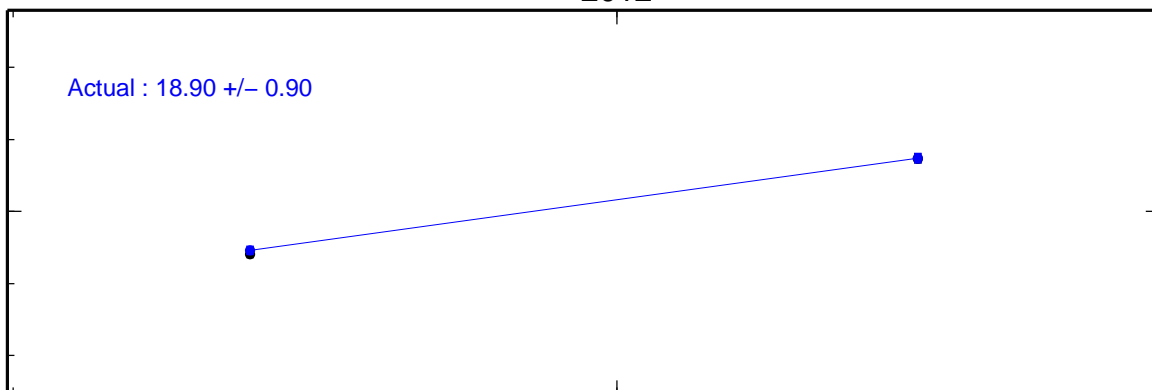


LAPU

2012

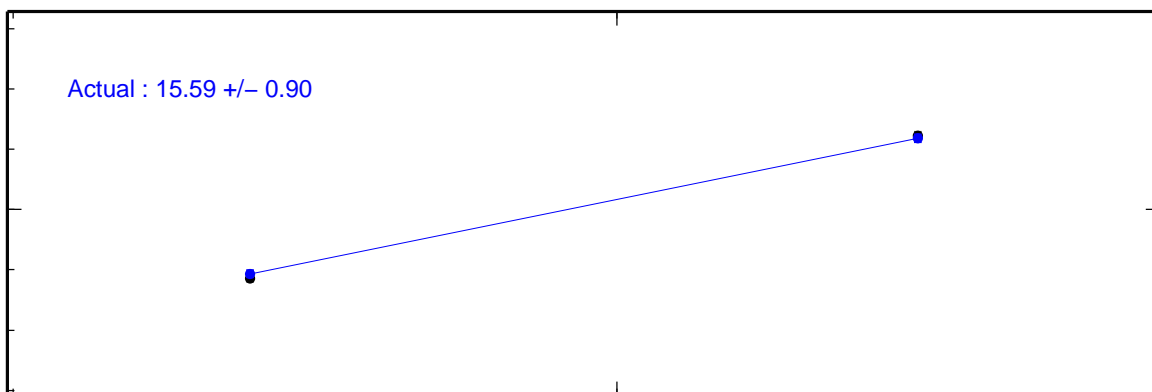
North(mm)

Actual : 18.90 +/- 0.90



East(mm)

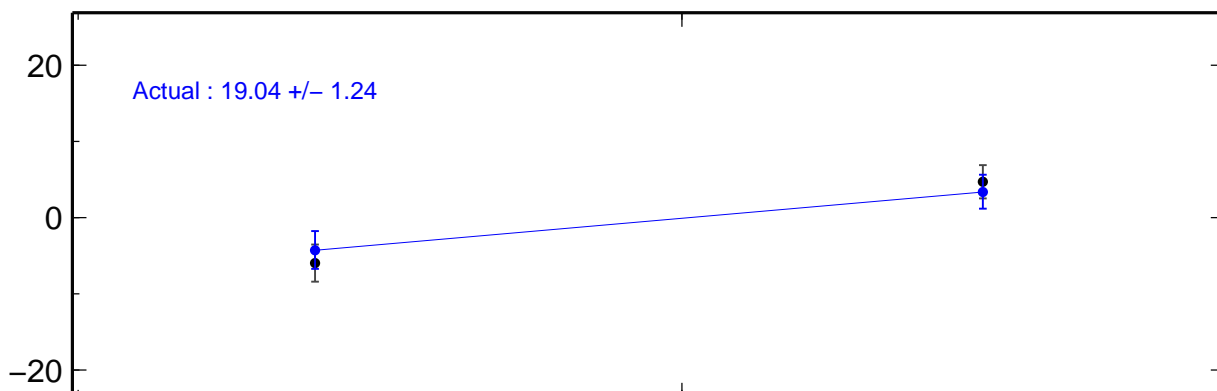
Actual : 15.59 +/- 0.90



2012

Up(mm)

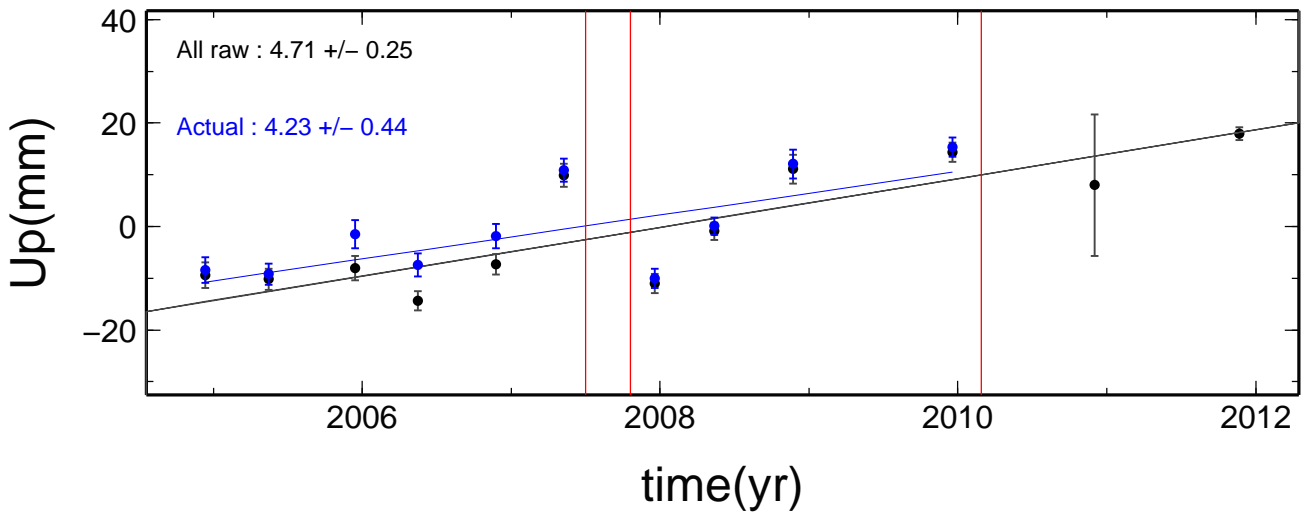
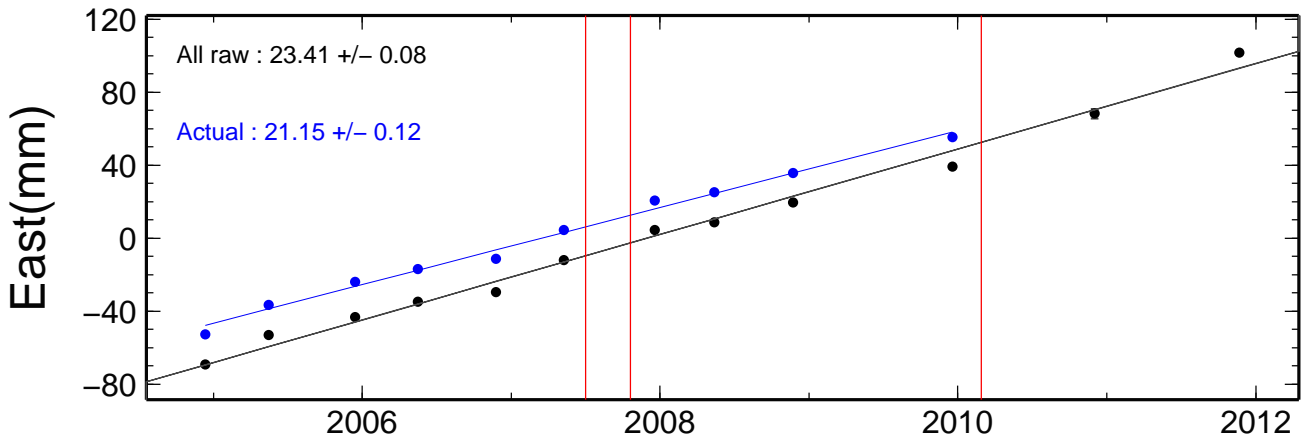
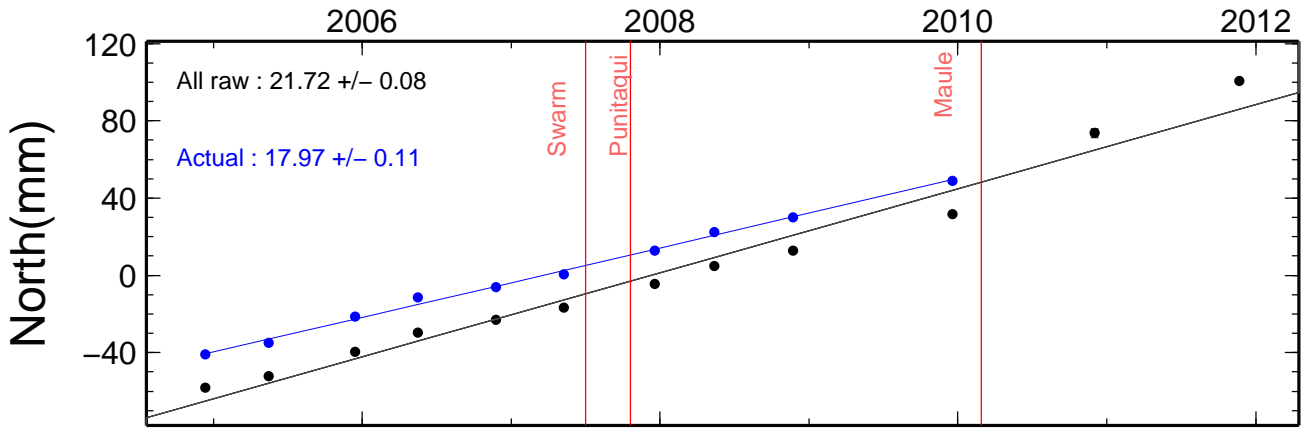
Actual : 19.04 +/- 1.24



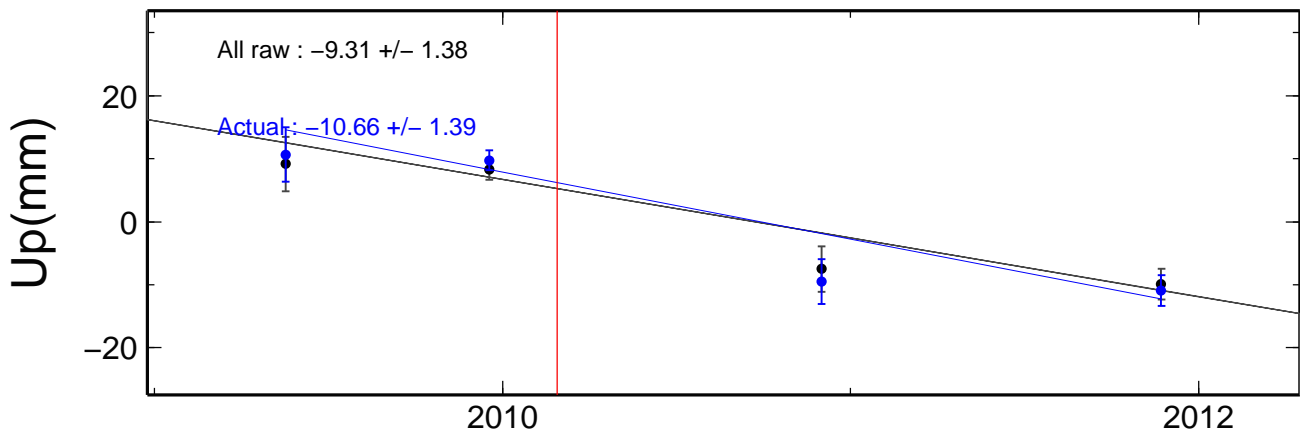
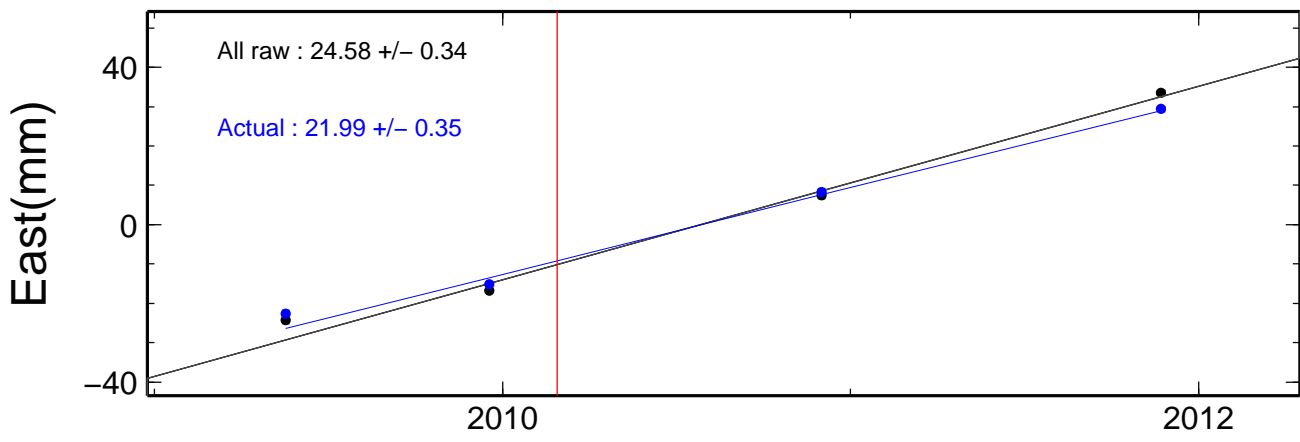
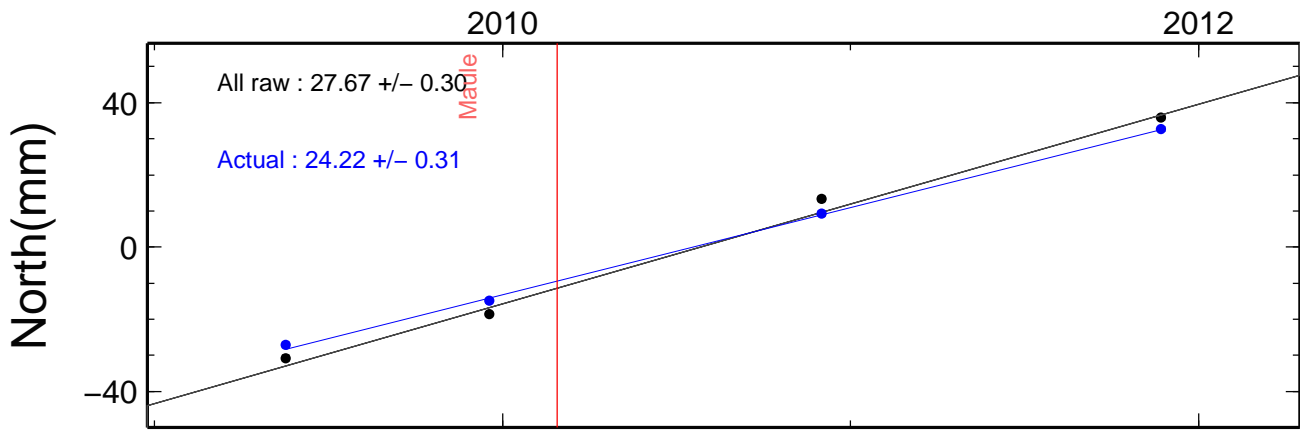
2012

time(yr)

LCAN

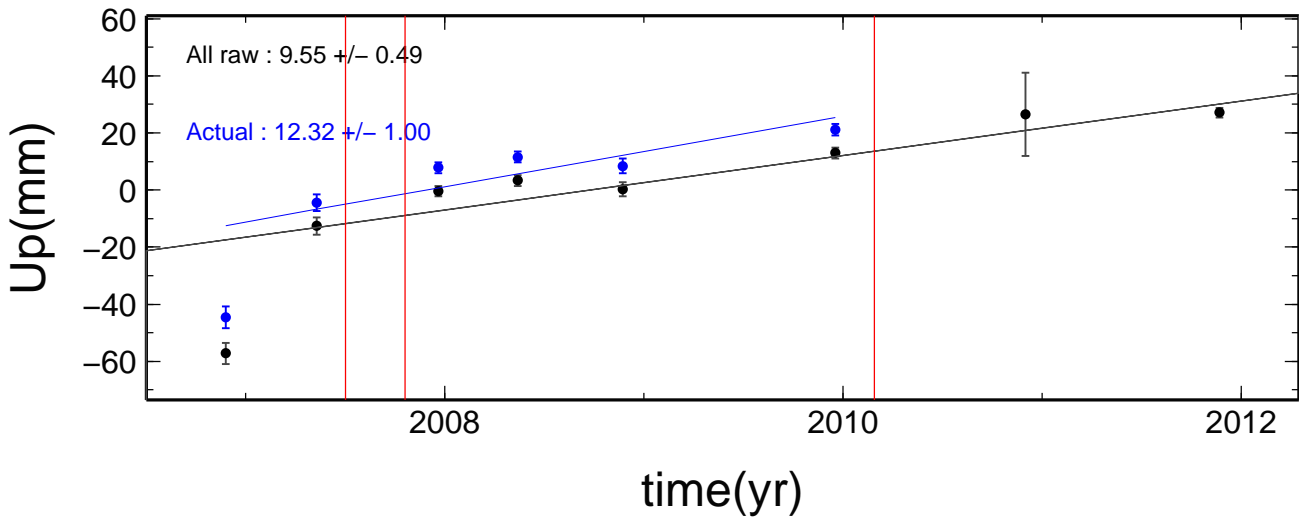
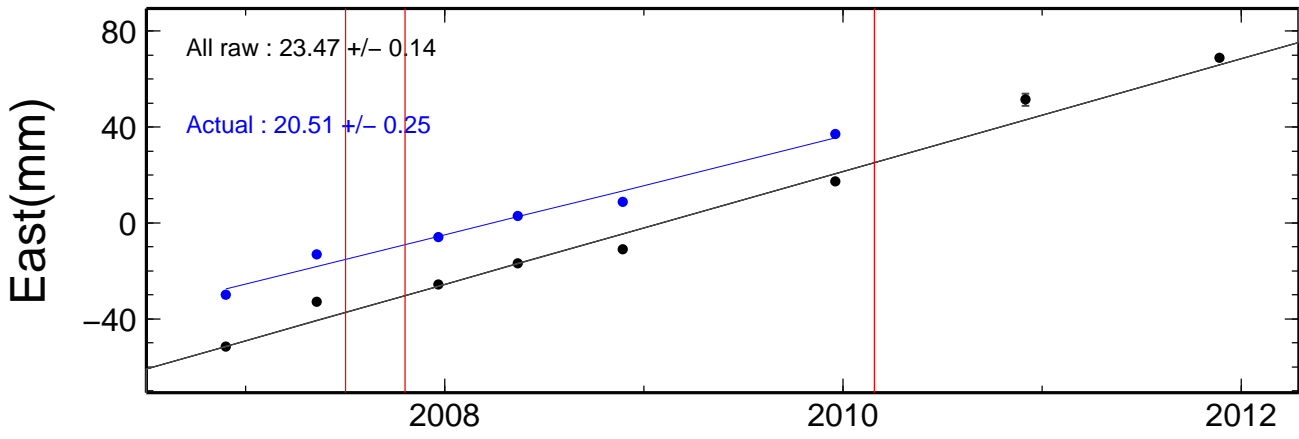
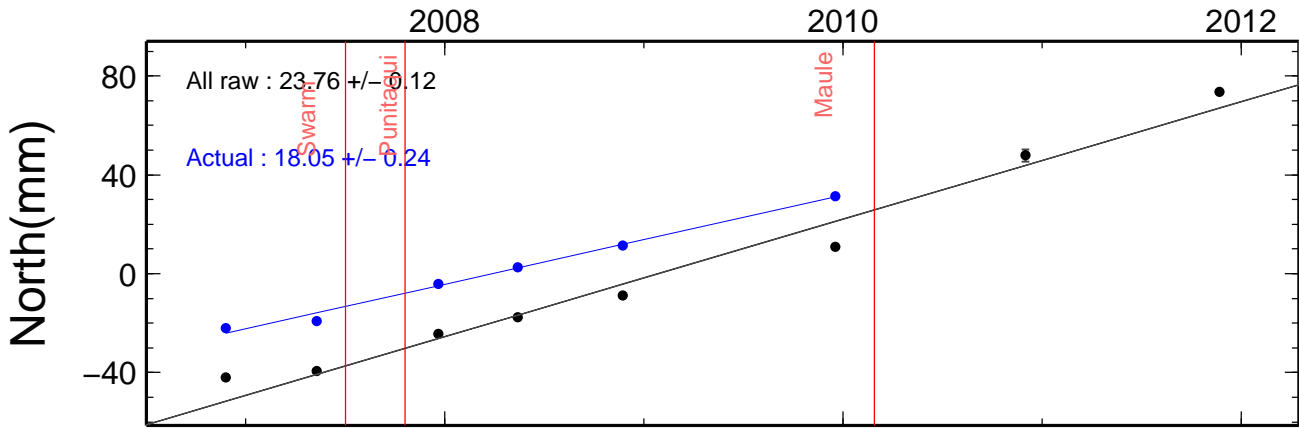


LCHO

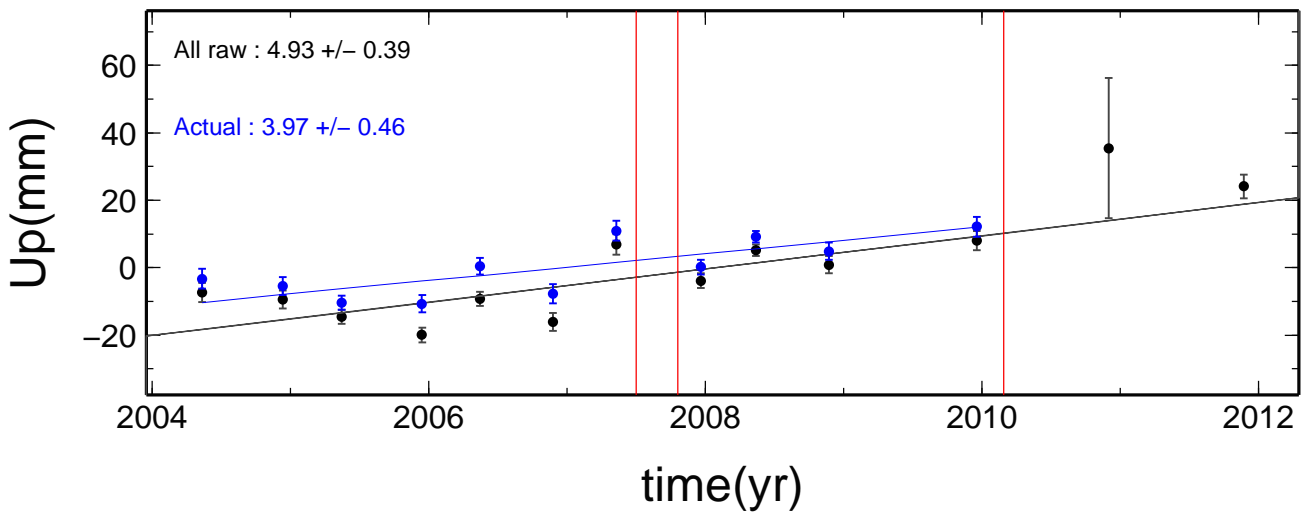
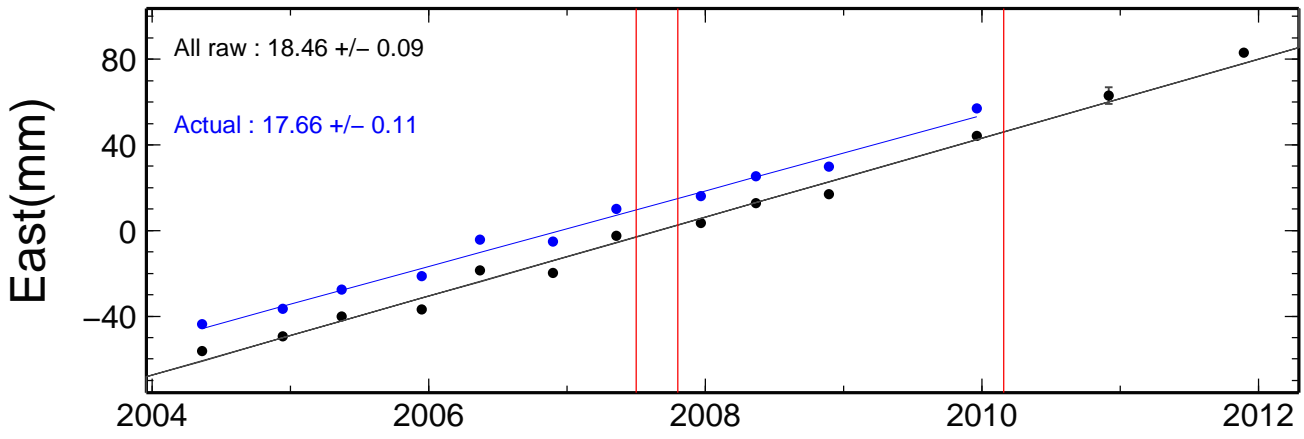
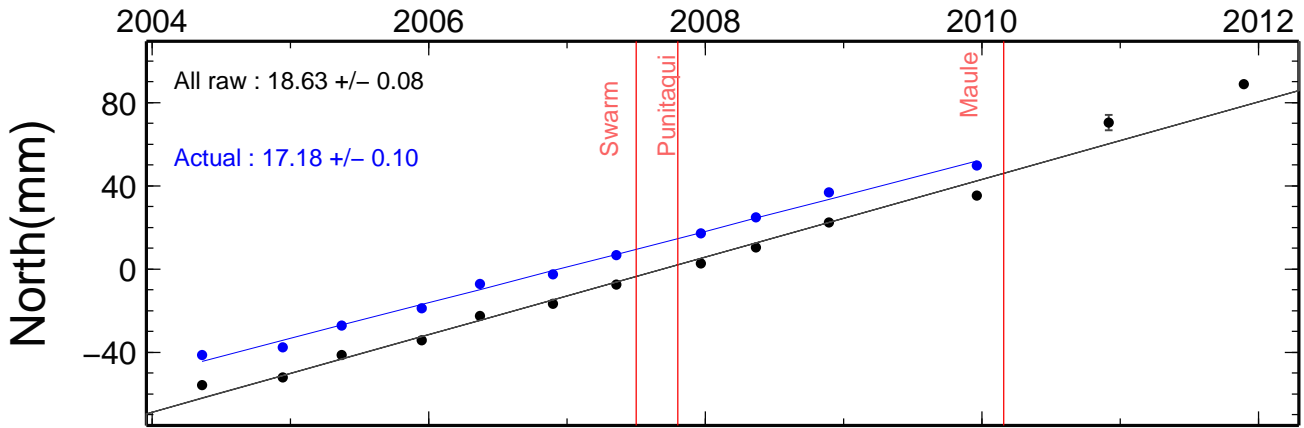


time(yr)

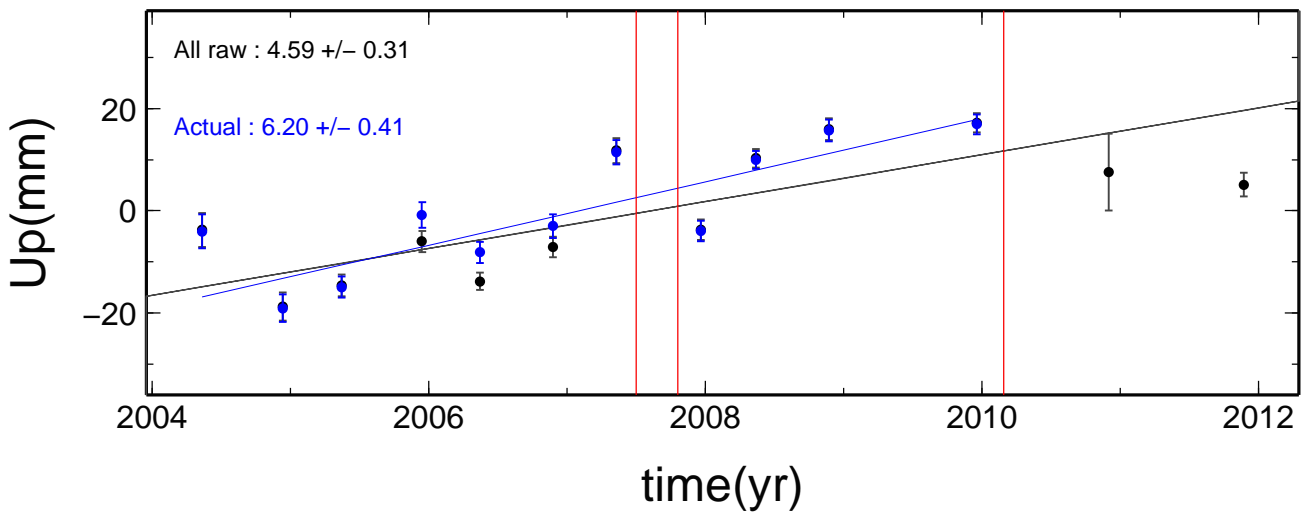
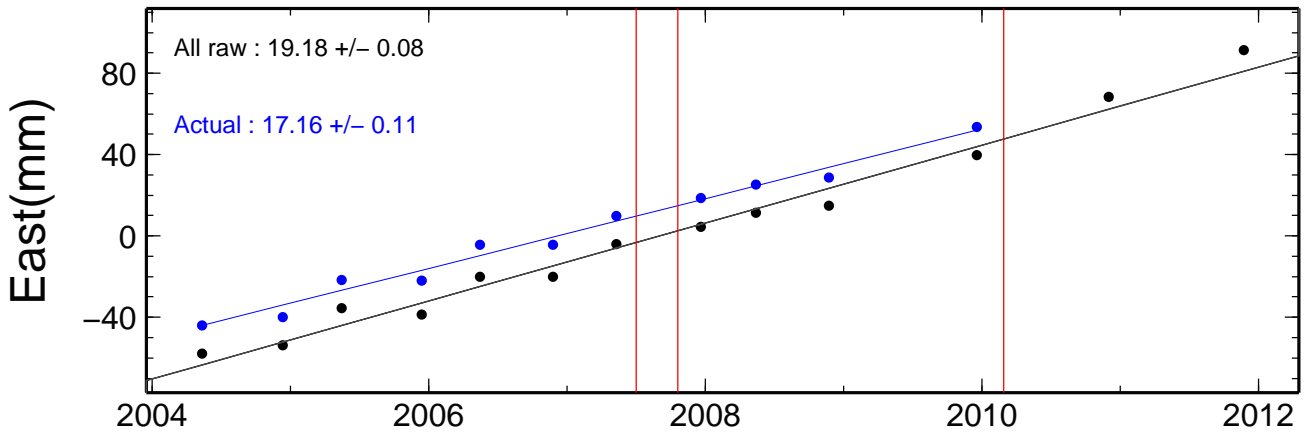
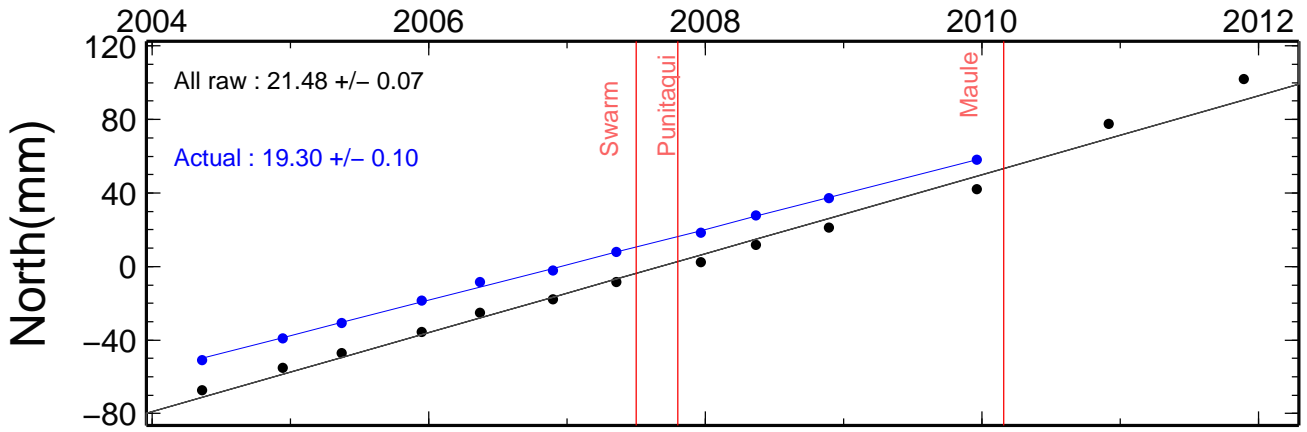
LISL



LMOL

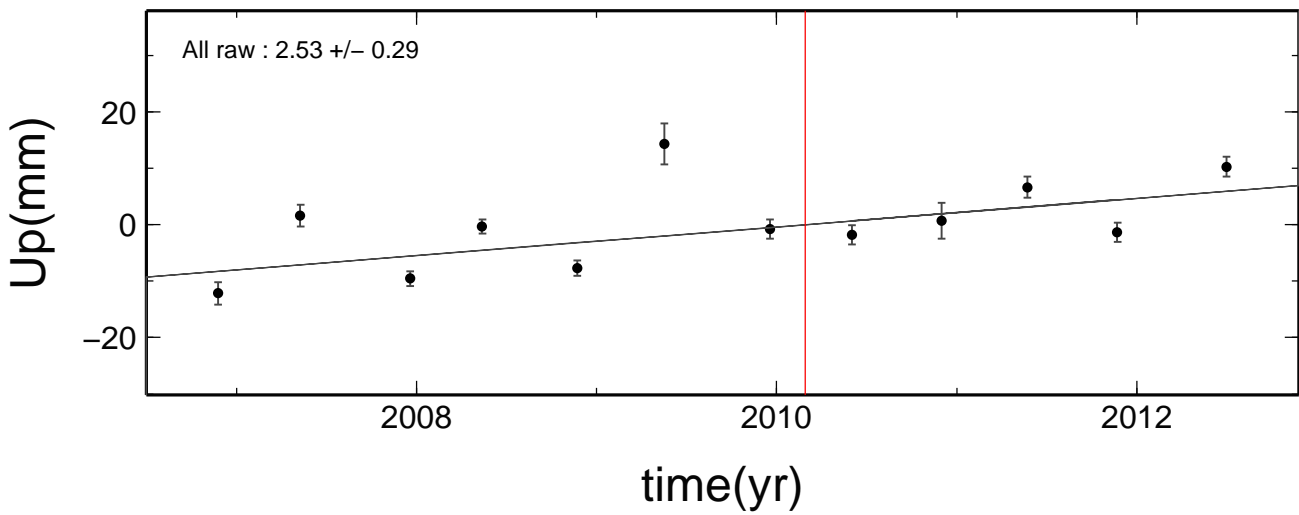
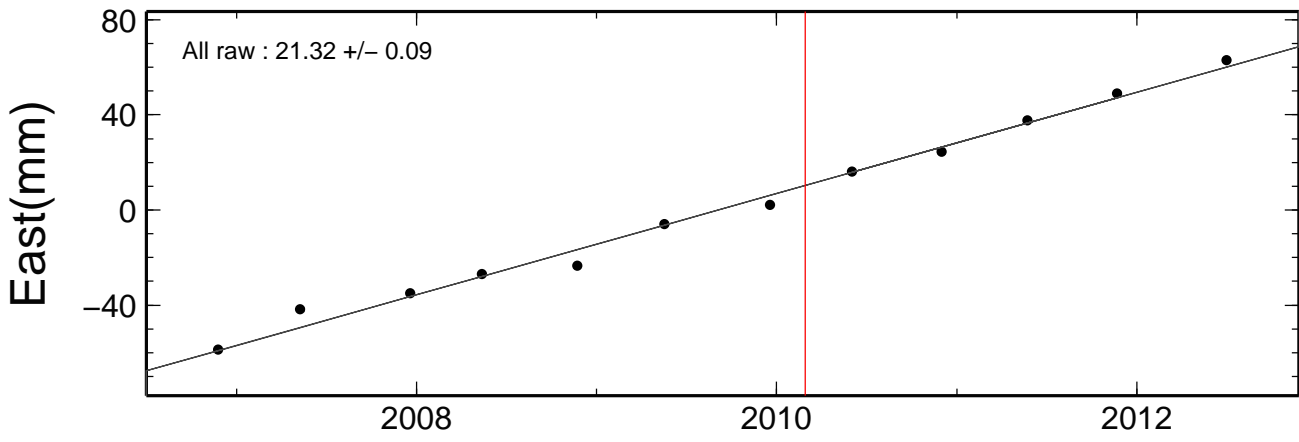
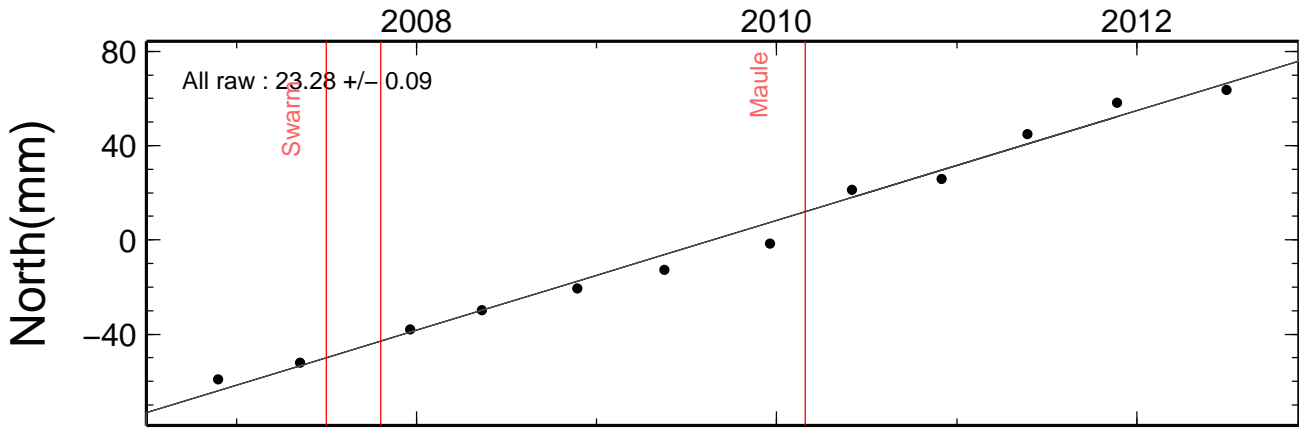


LPER

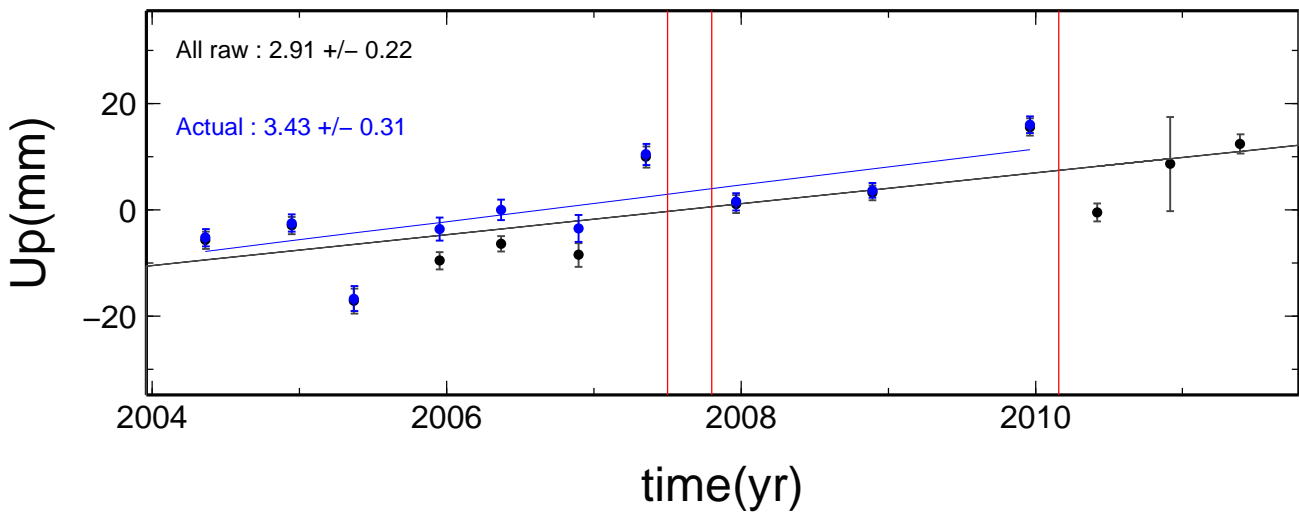
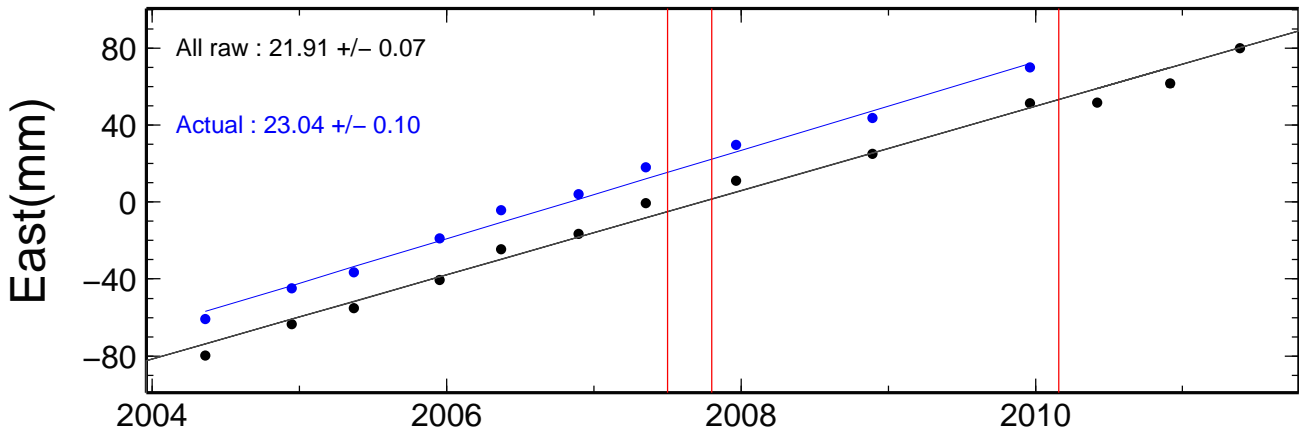
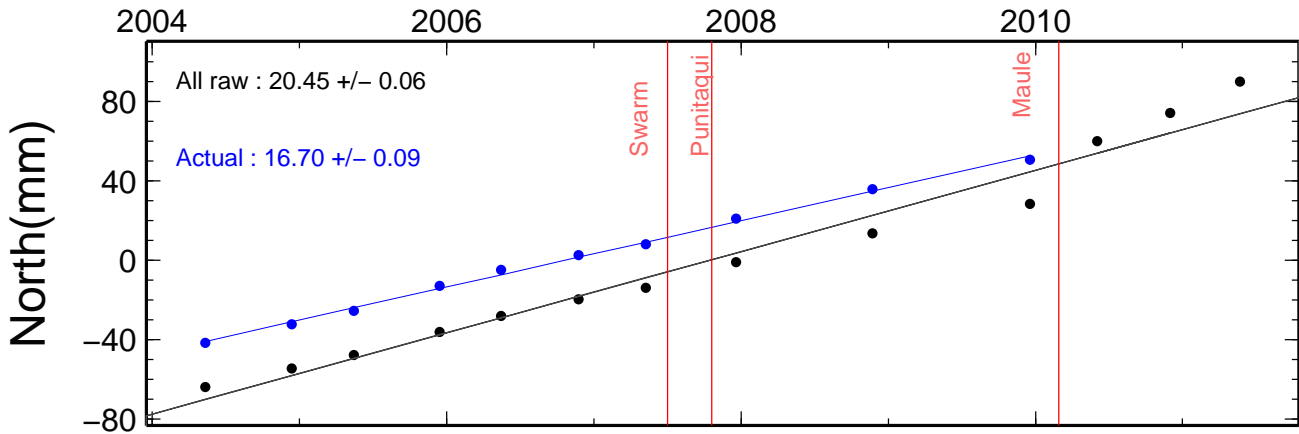


time(yr)

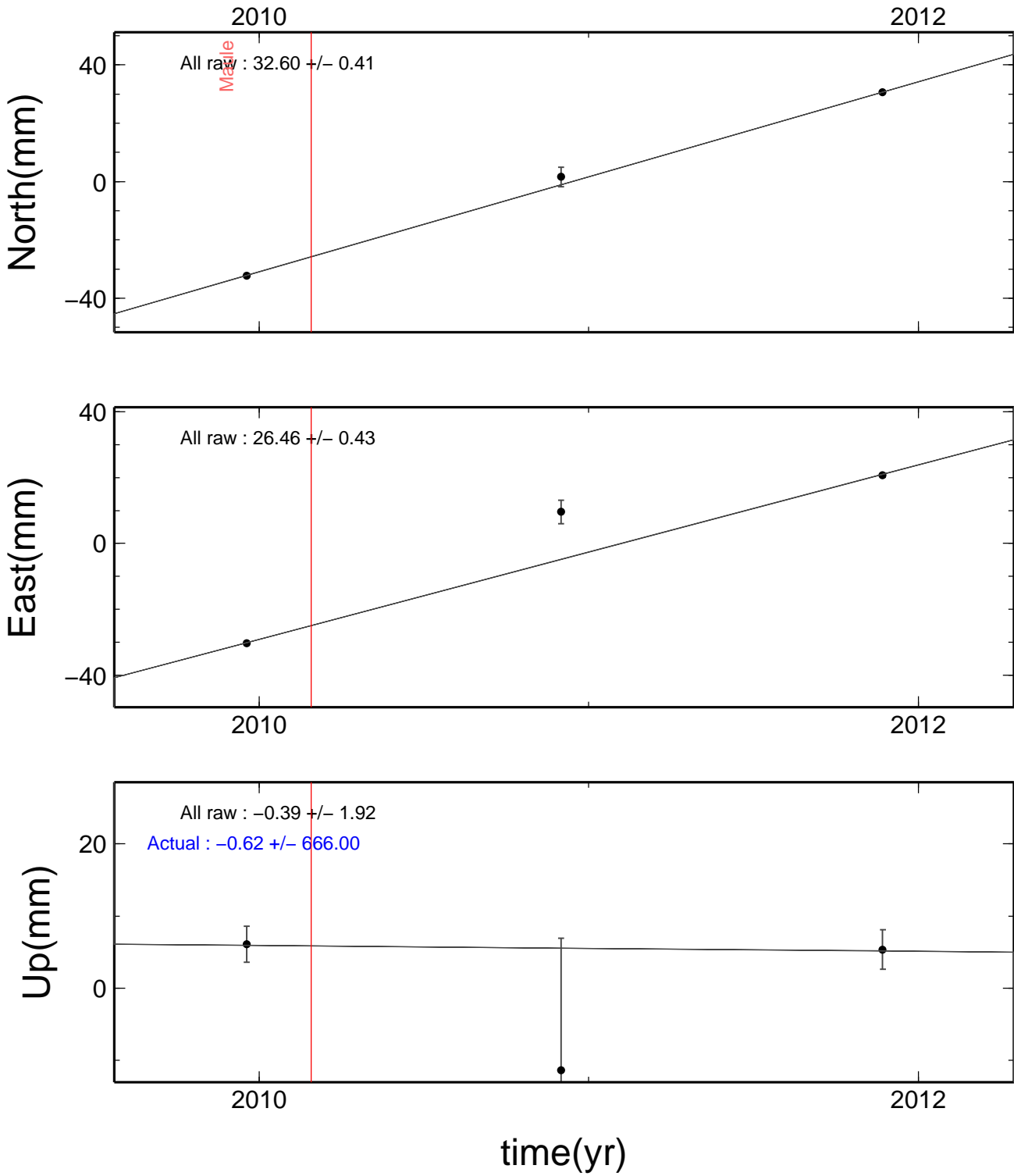
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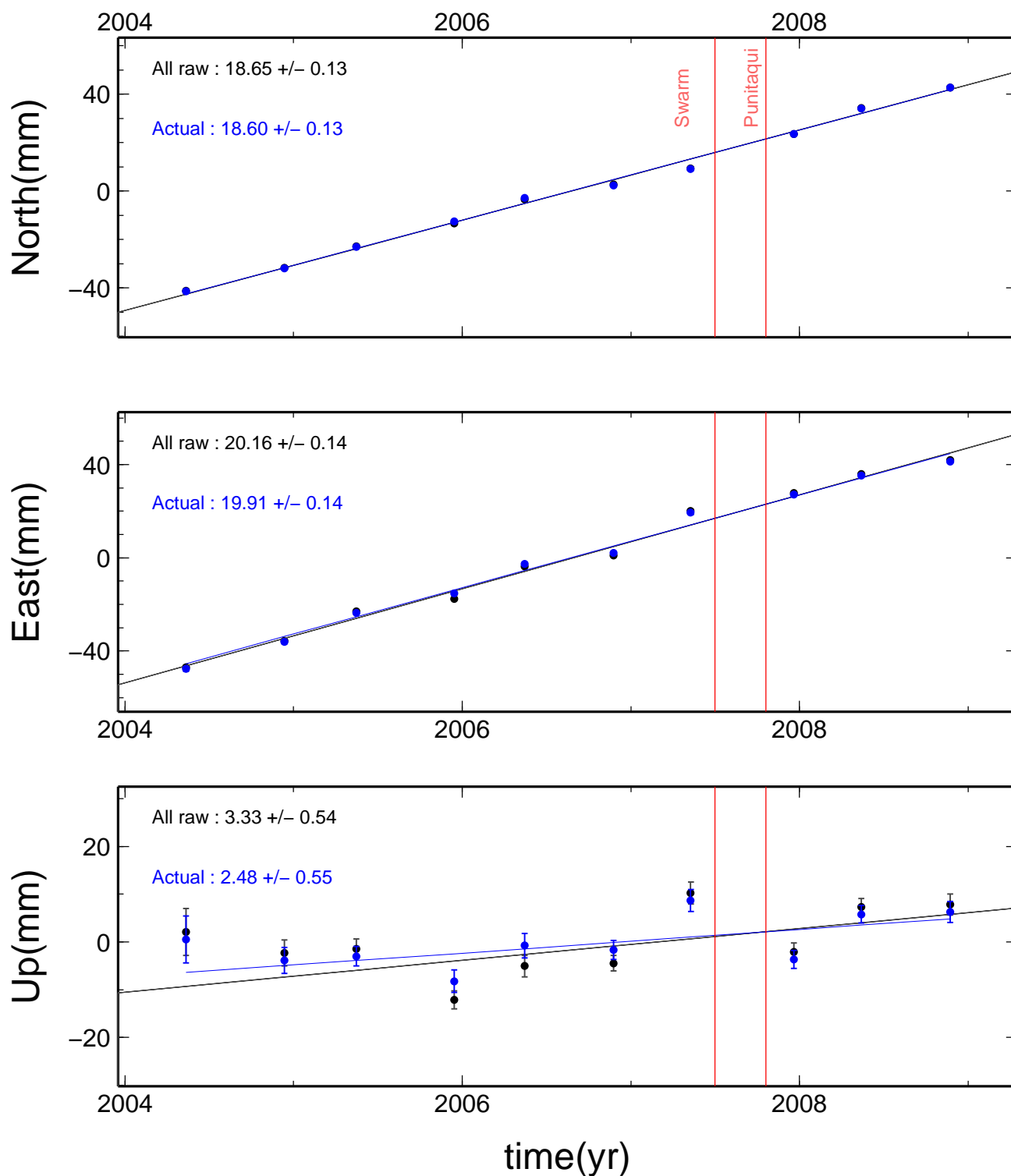
LVIL



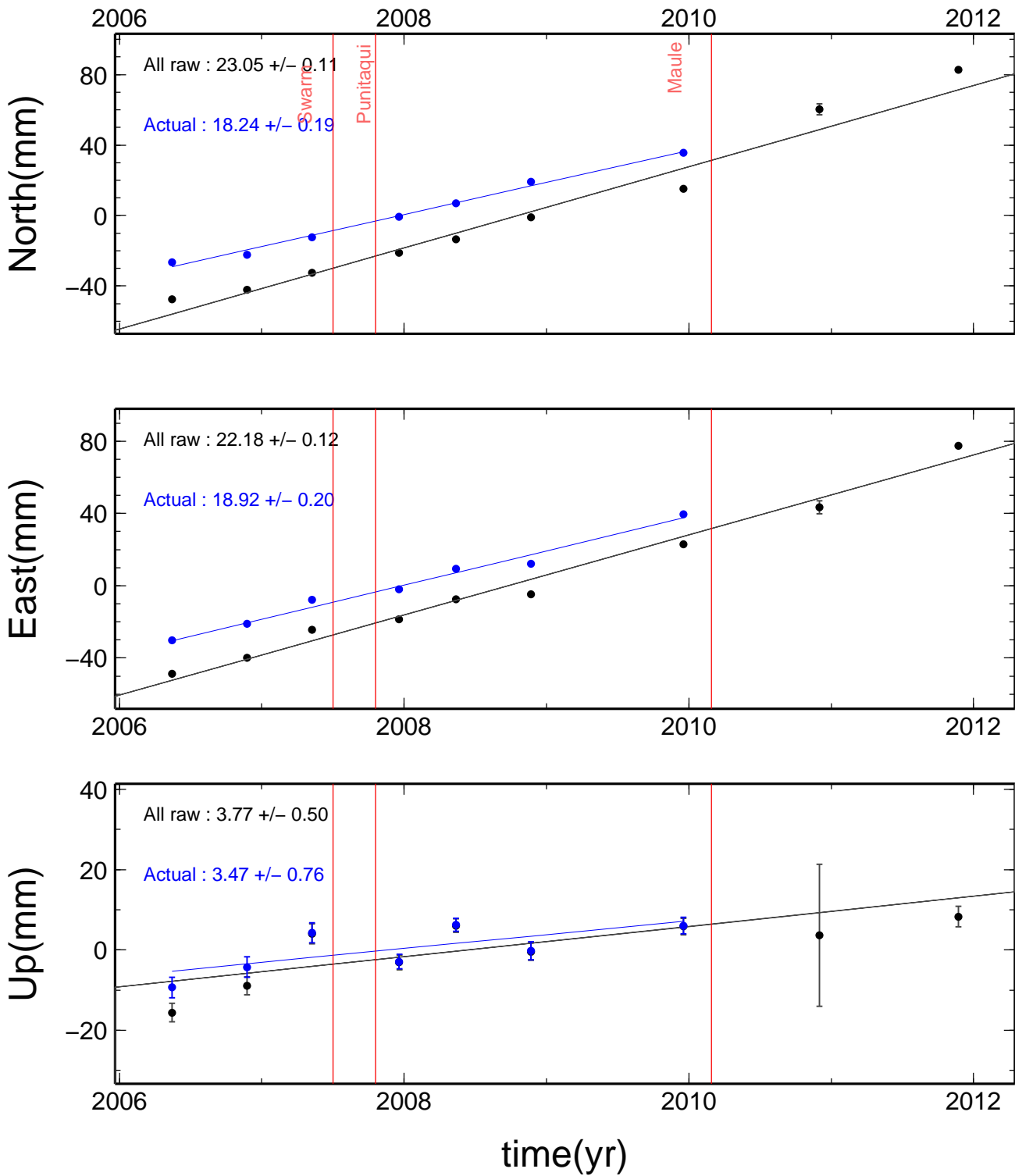
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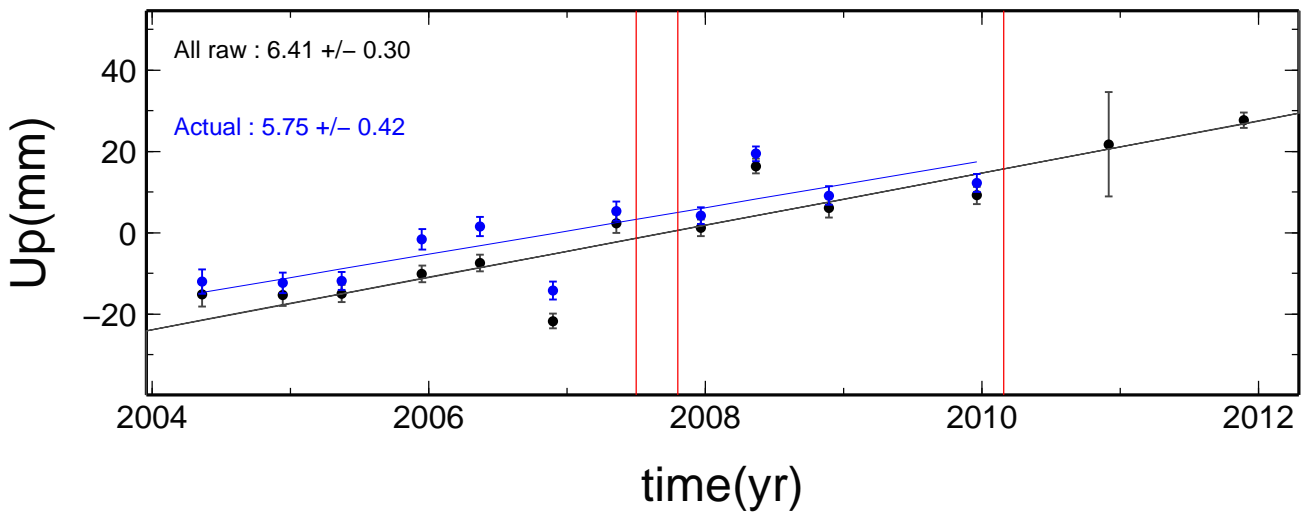
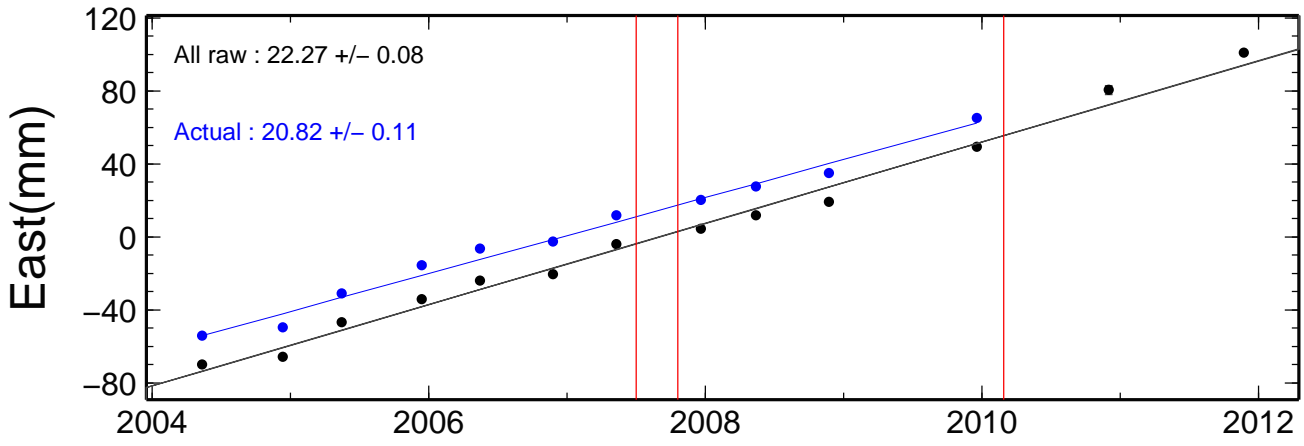
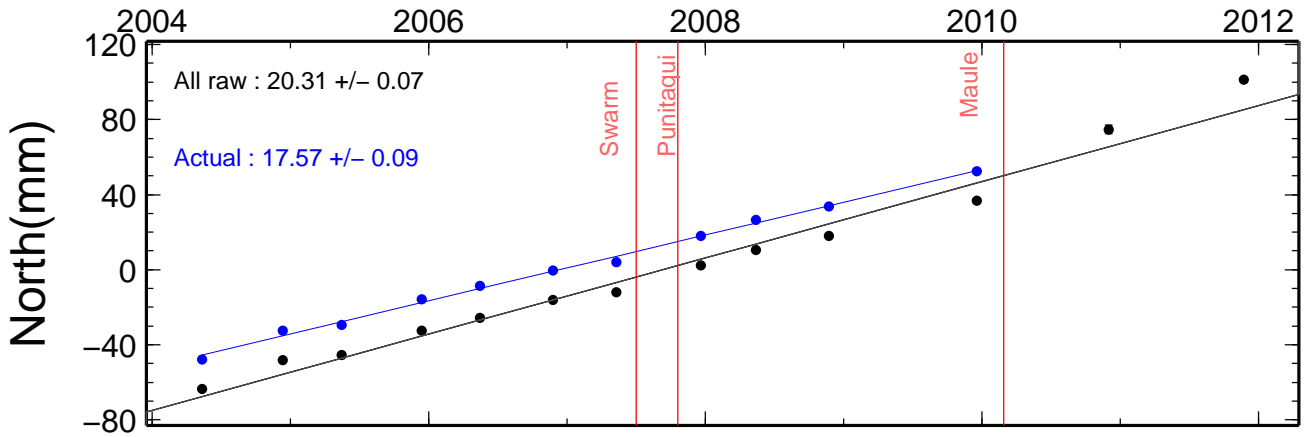
MPAT



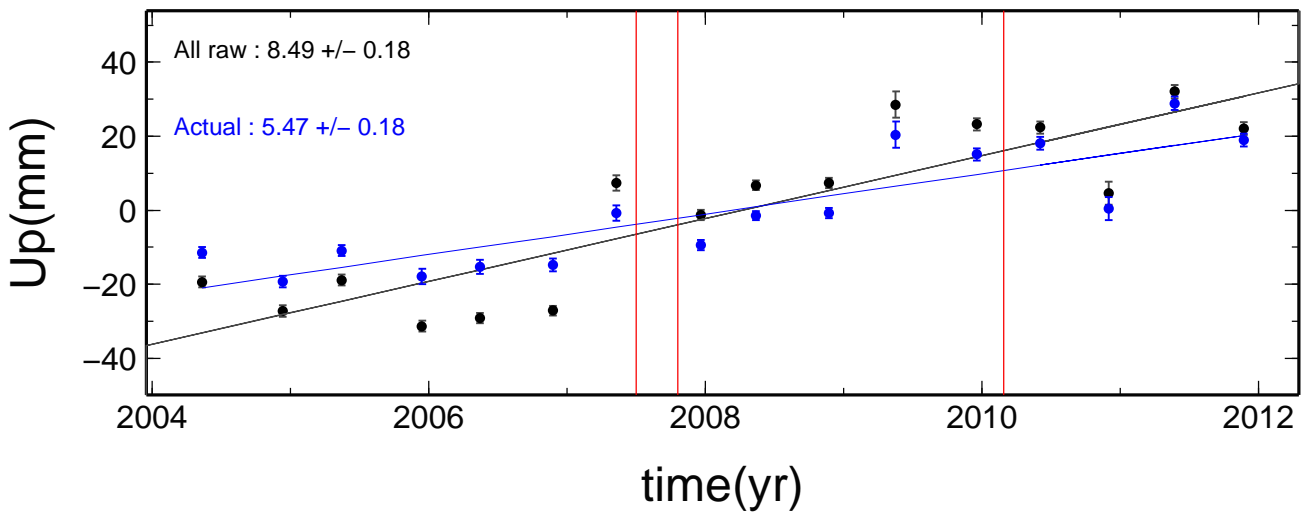
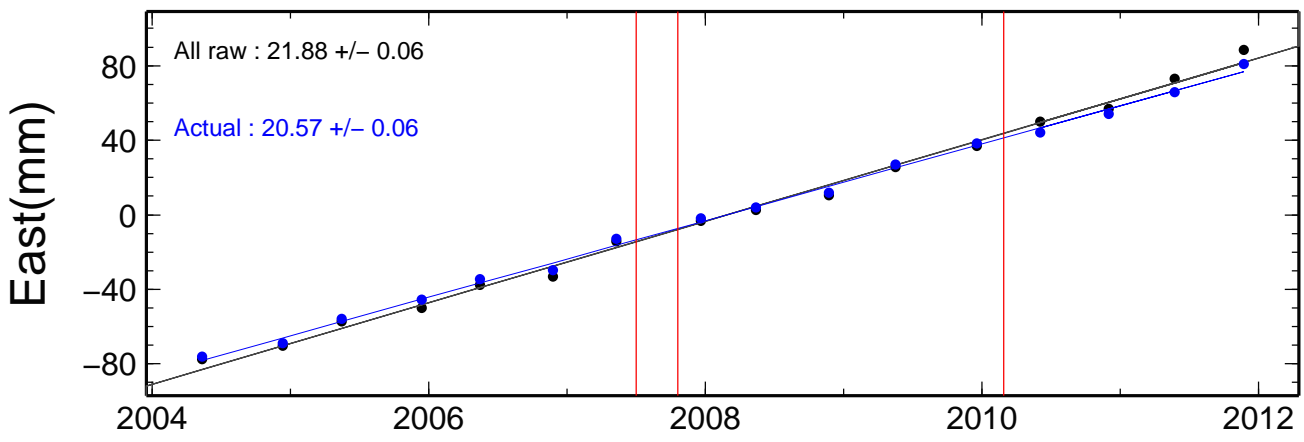
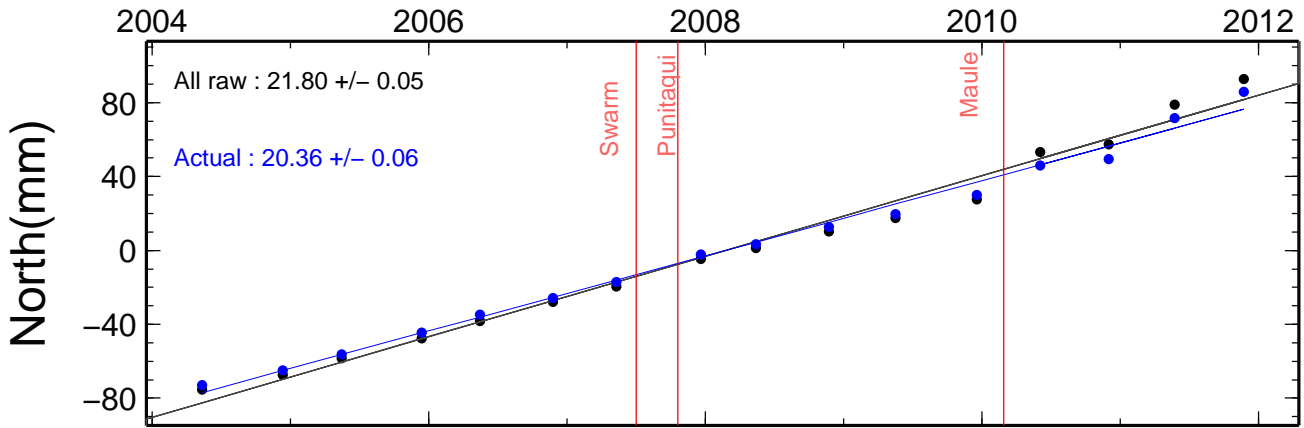
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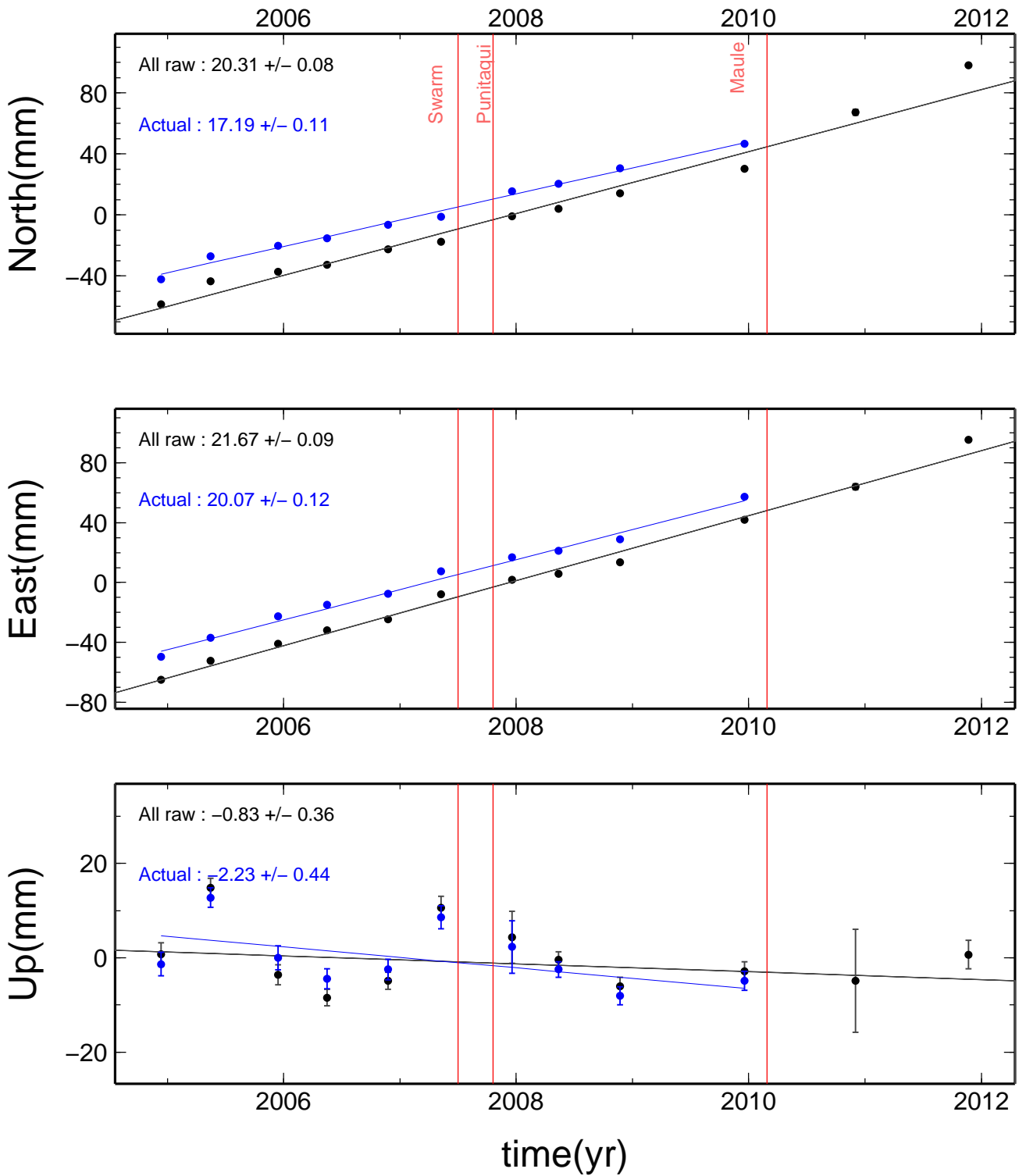
OVEJ



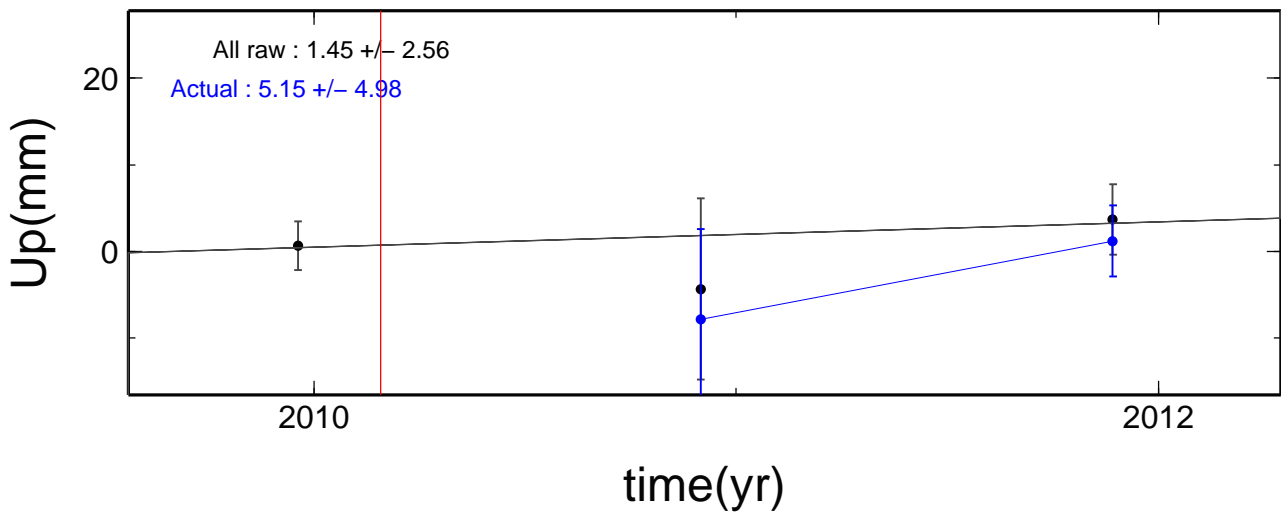
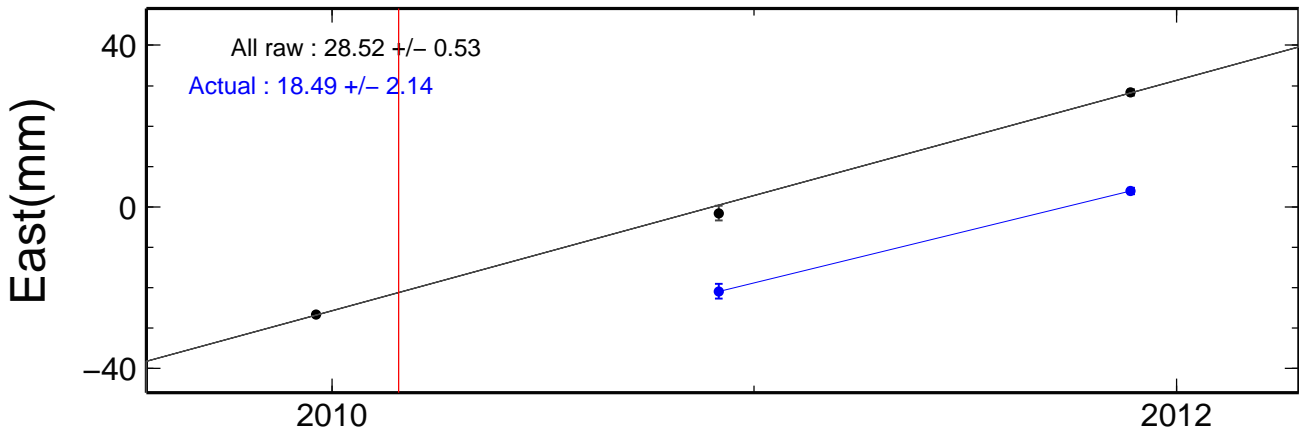
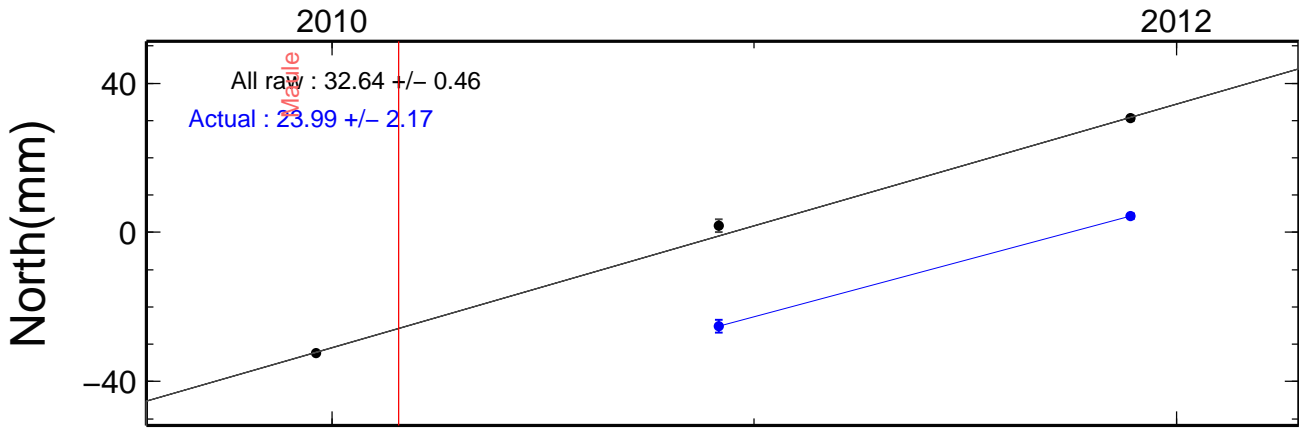
OVLL



PACH

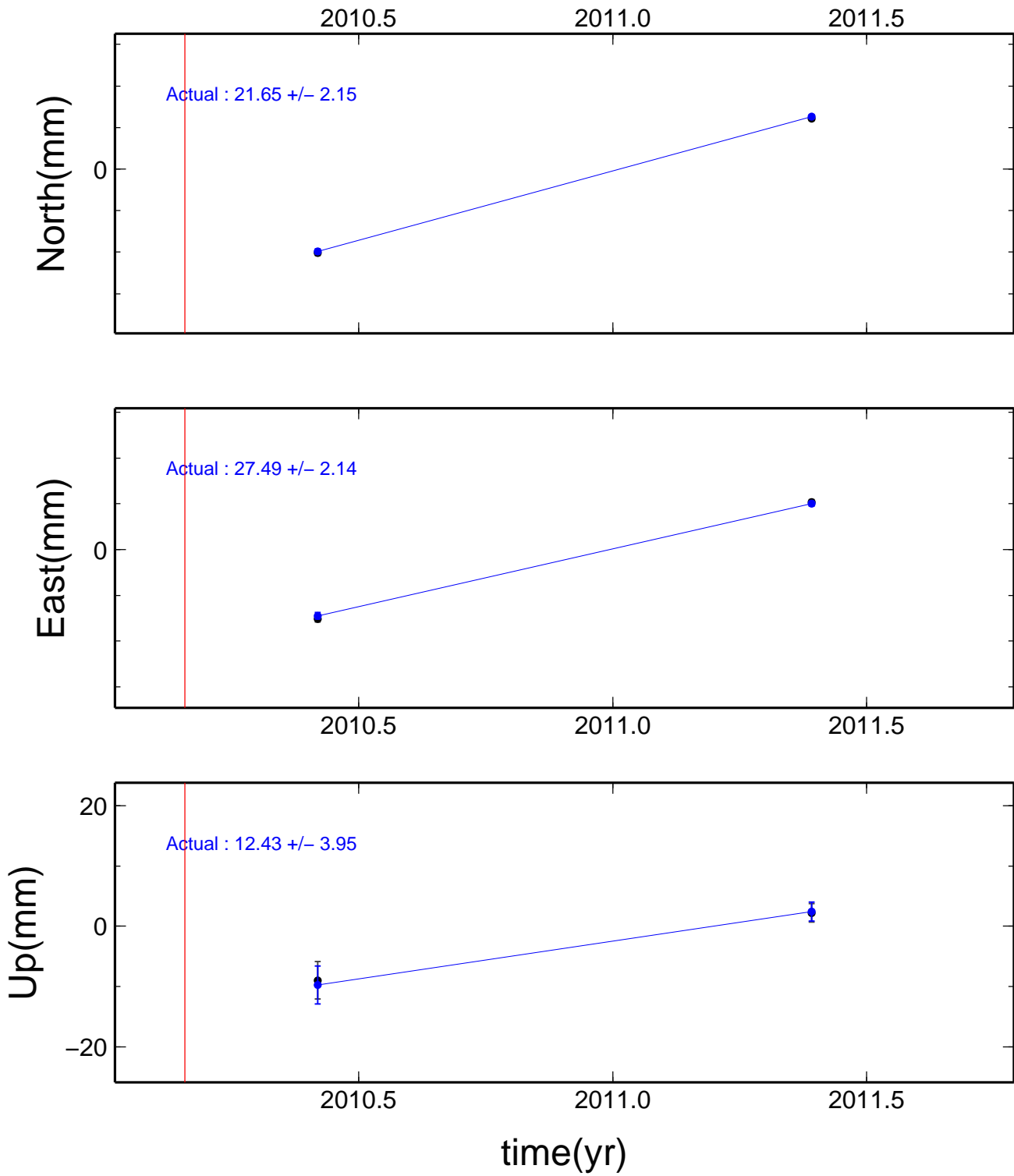


PALD

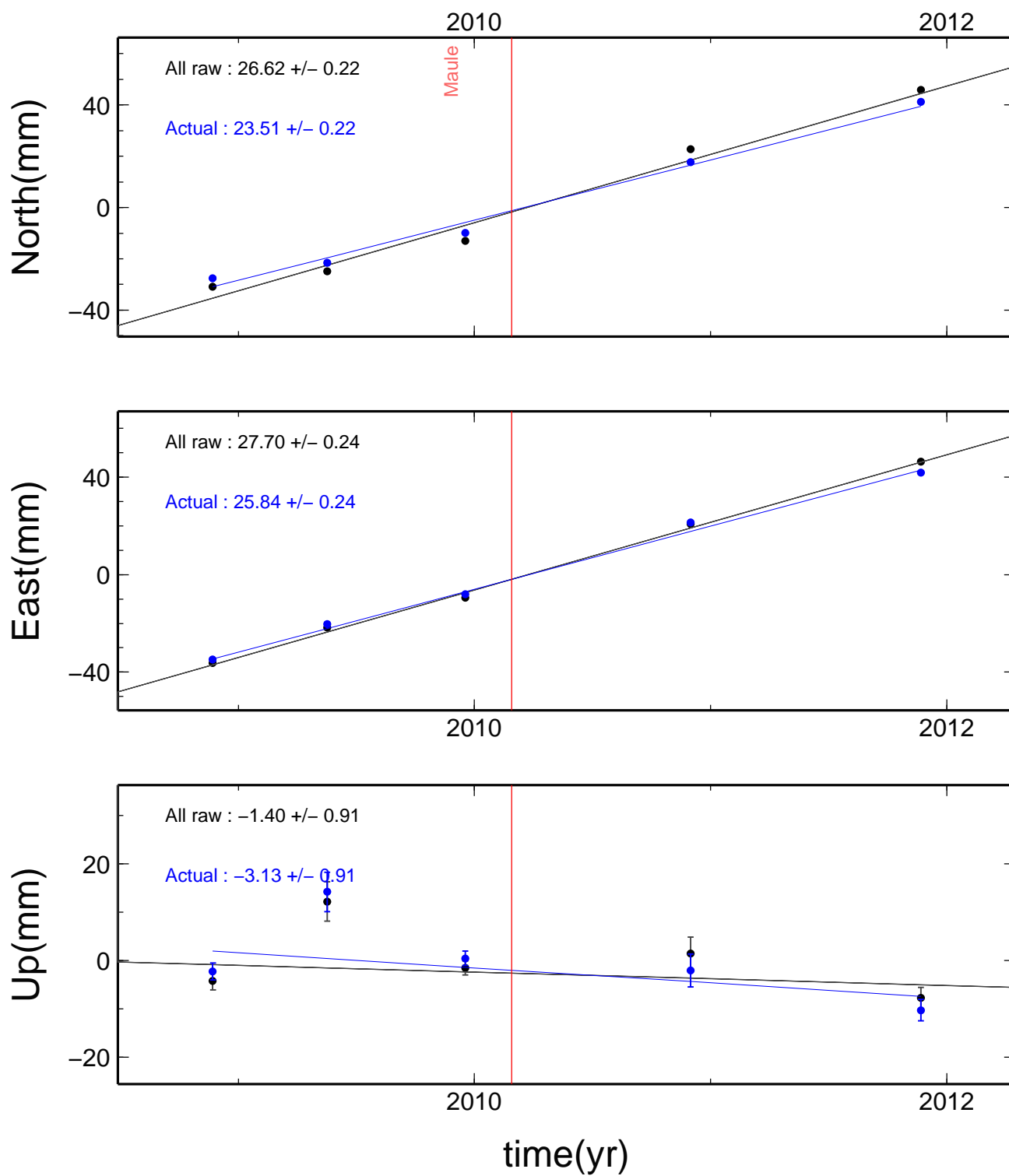


time(yr)

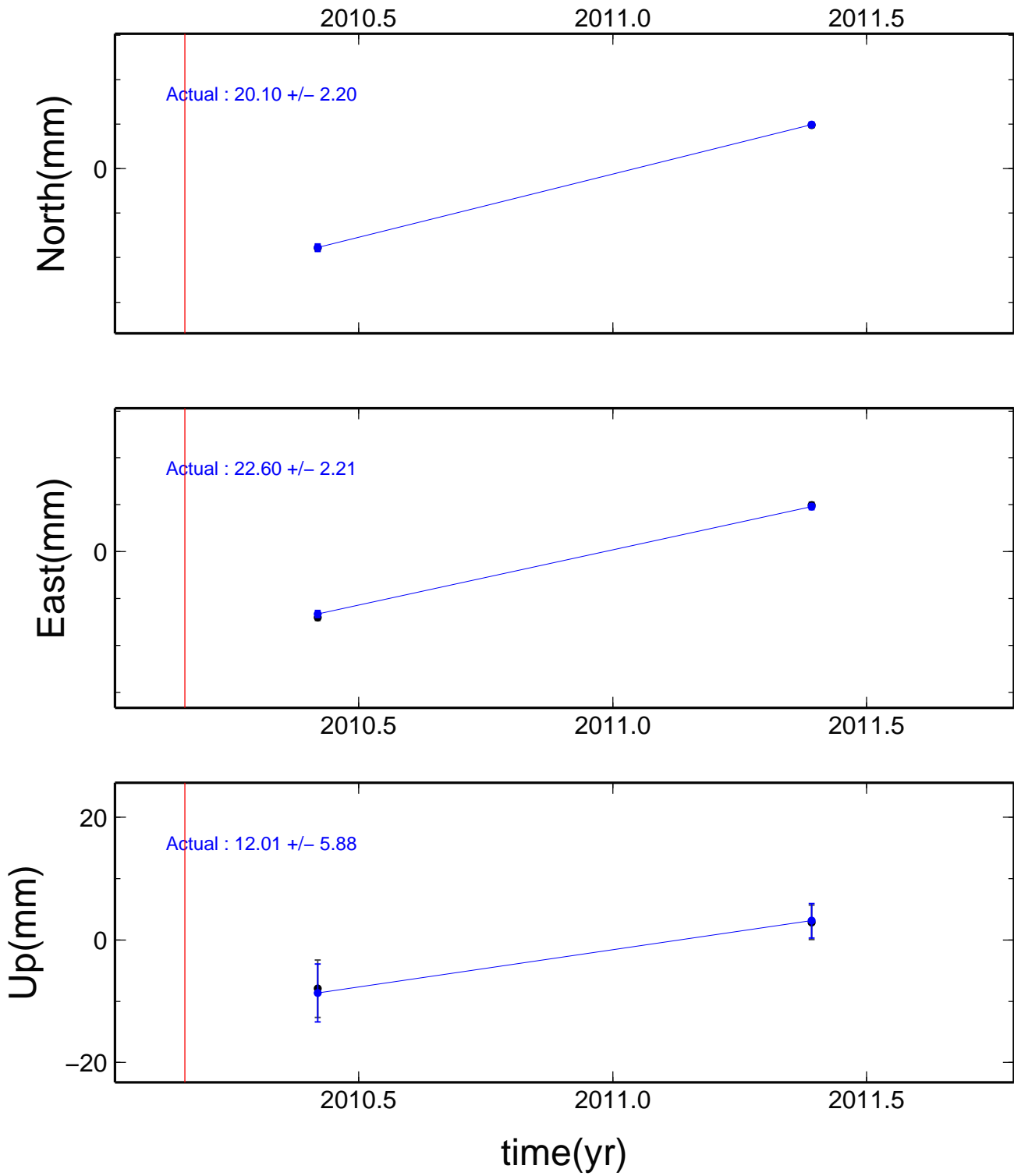
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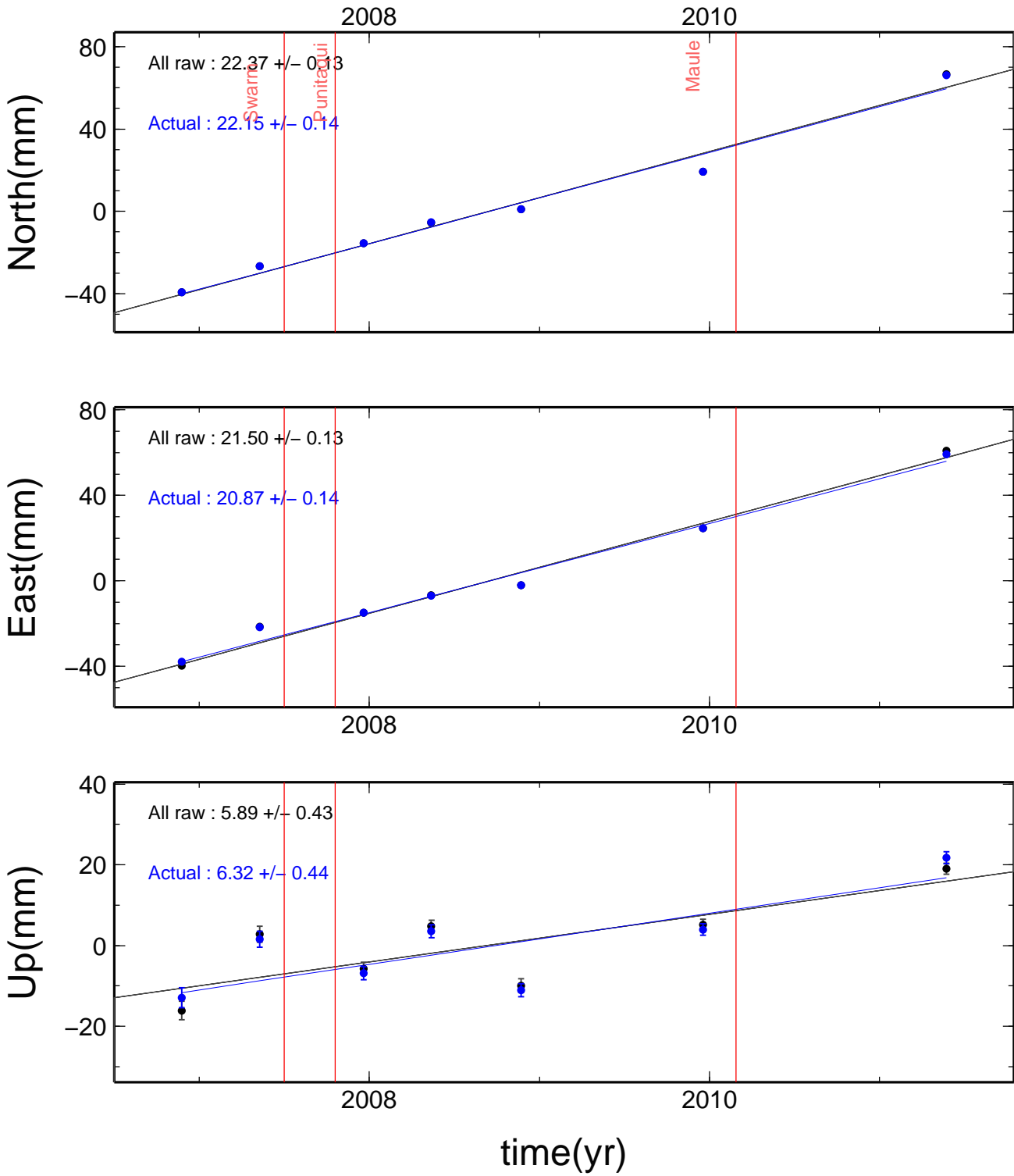
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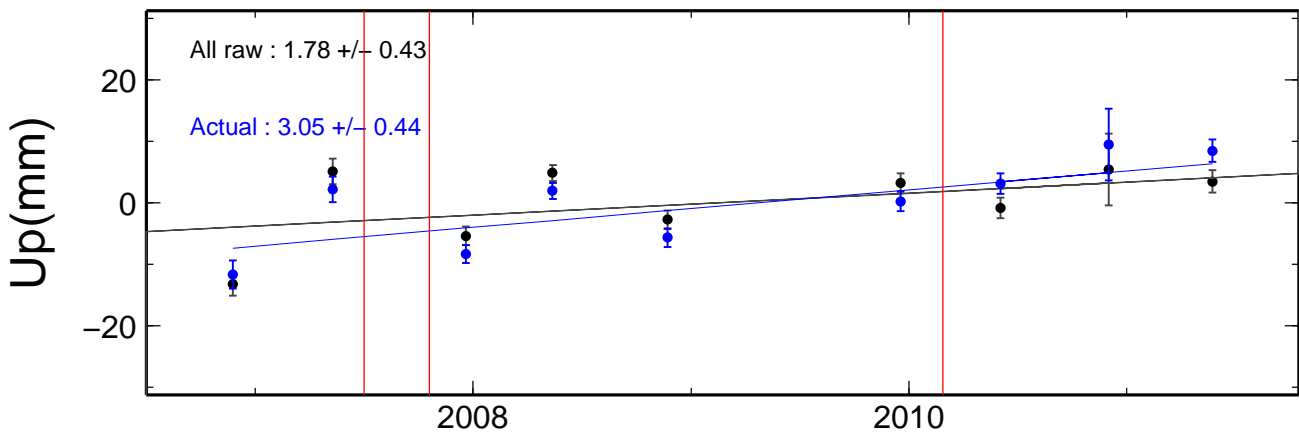
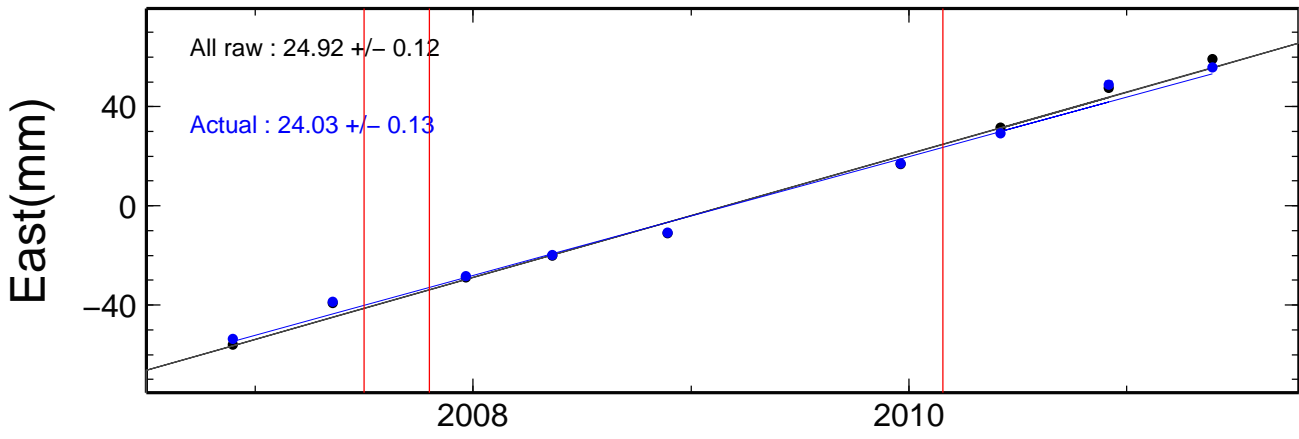
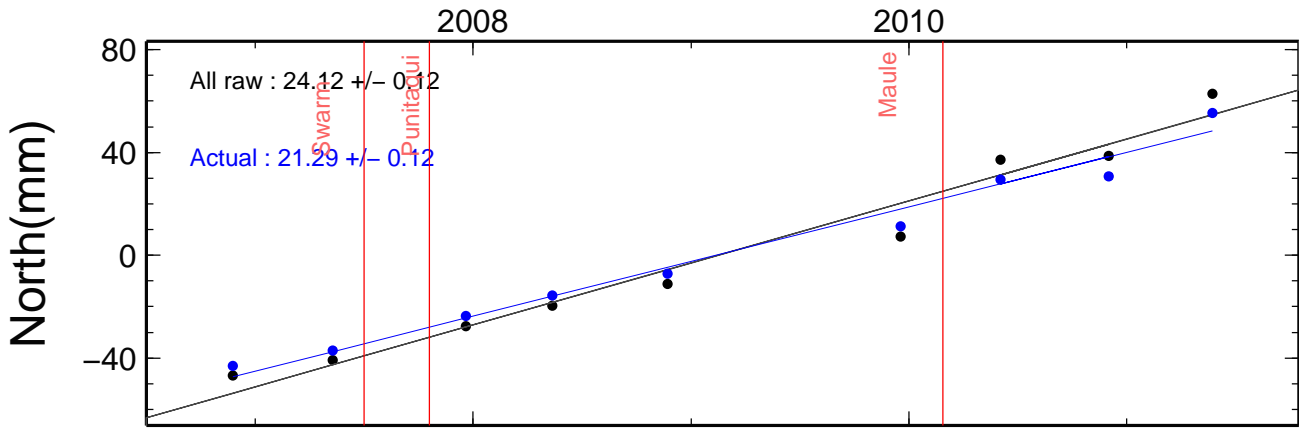
PEDG



PEDR

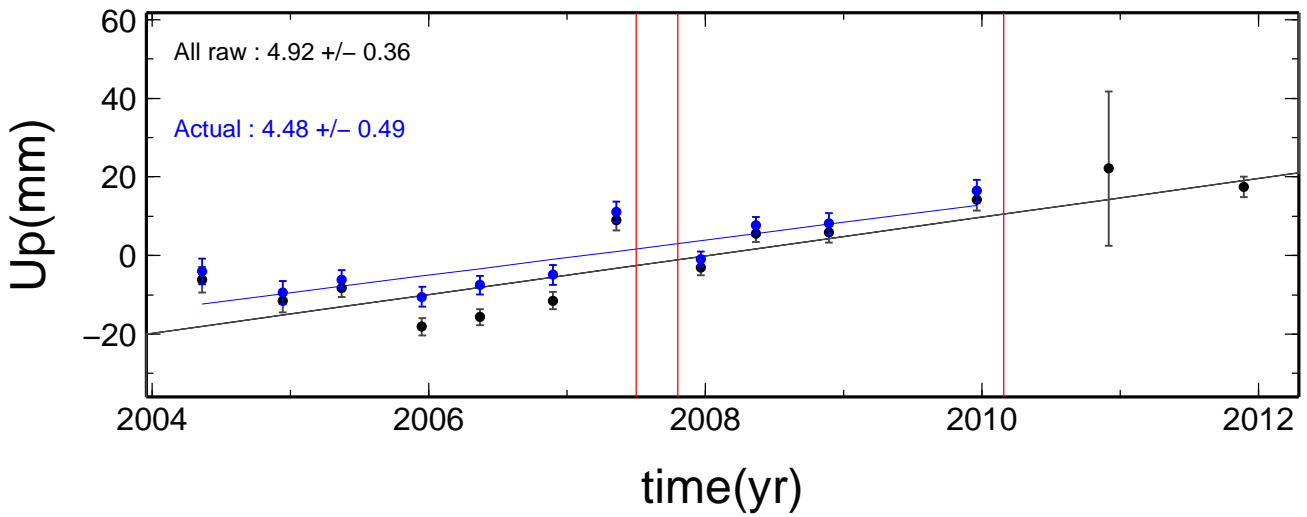
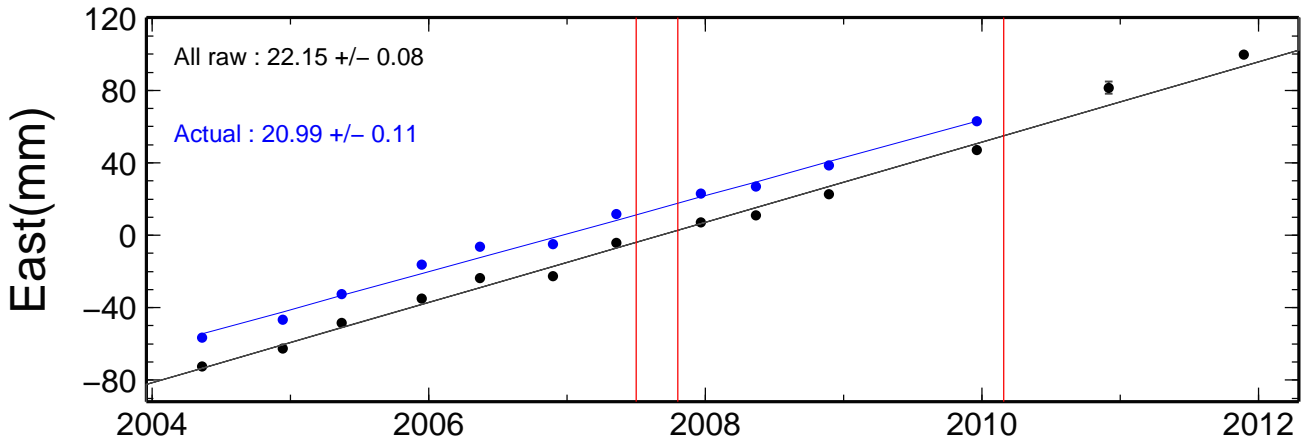
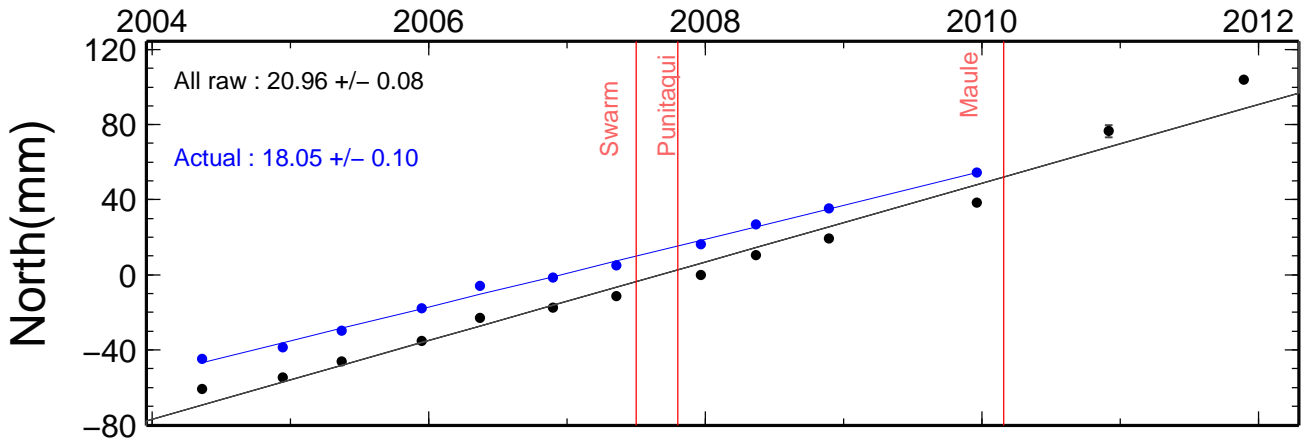


PFRJ

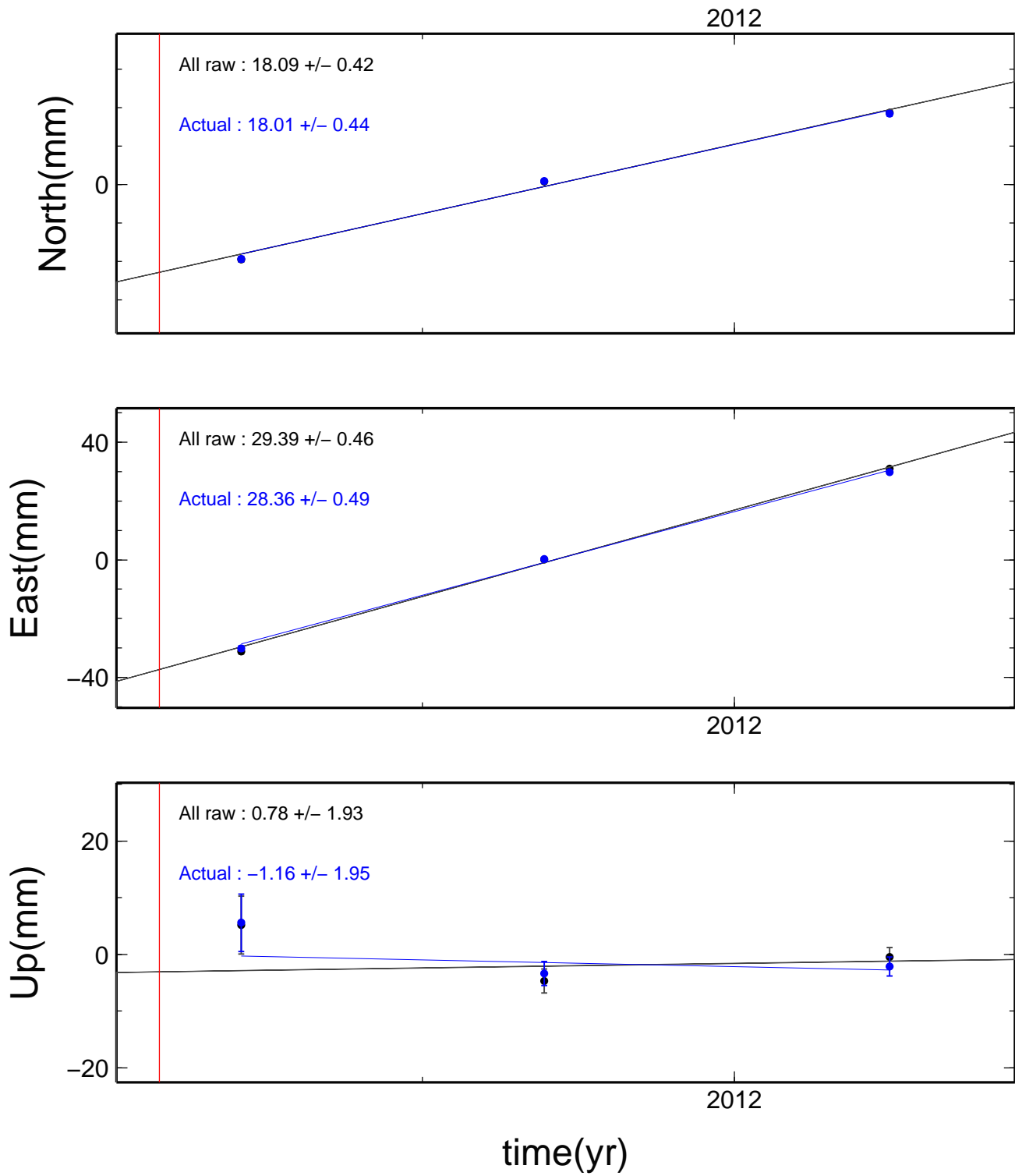


time(yr)

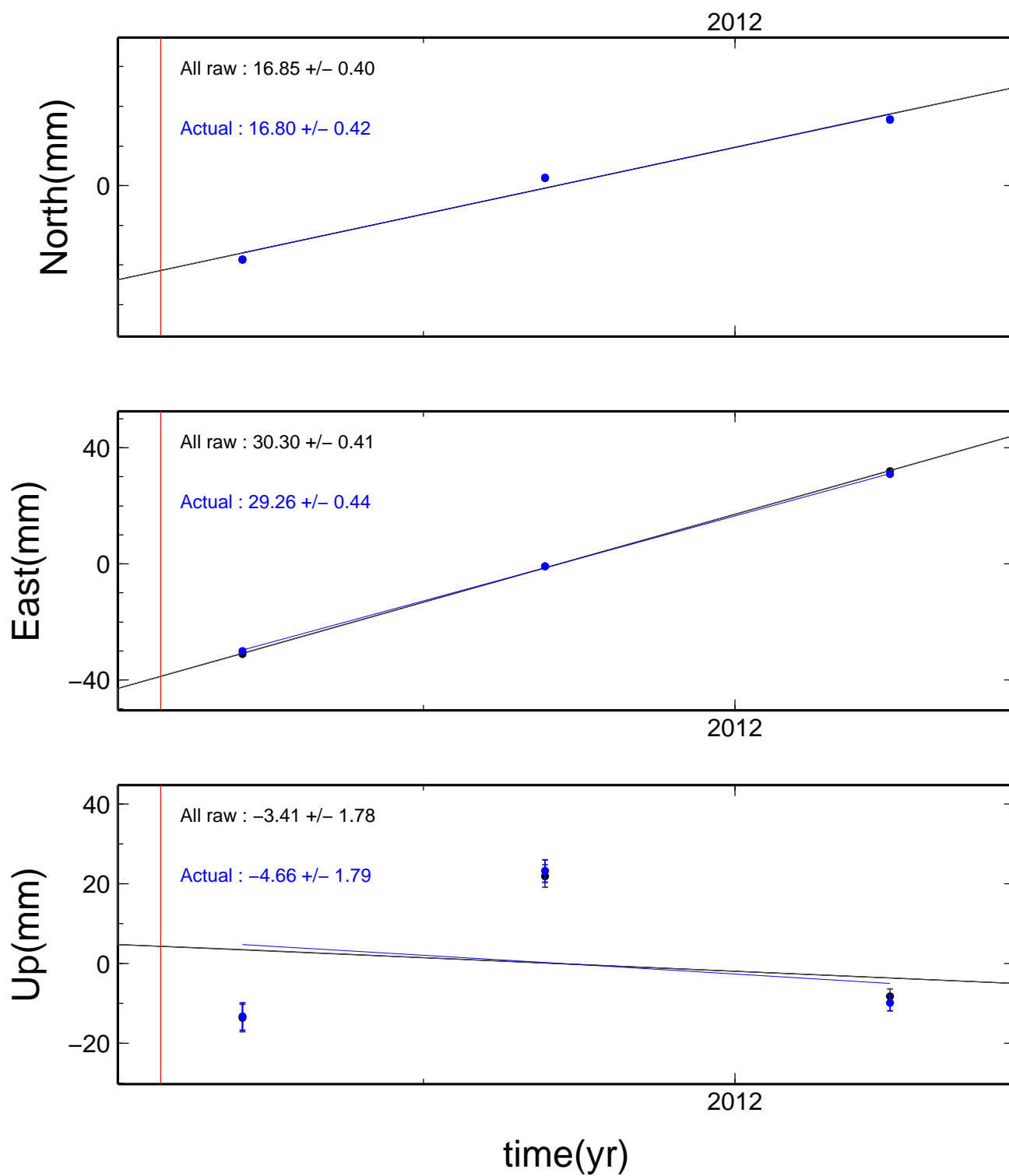
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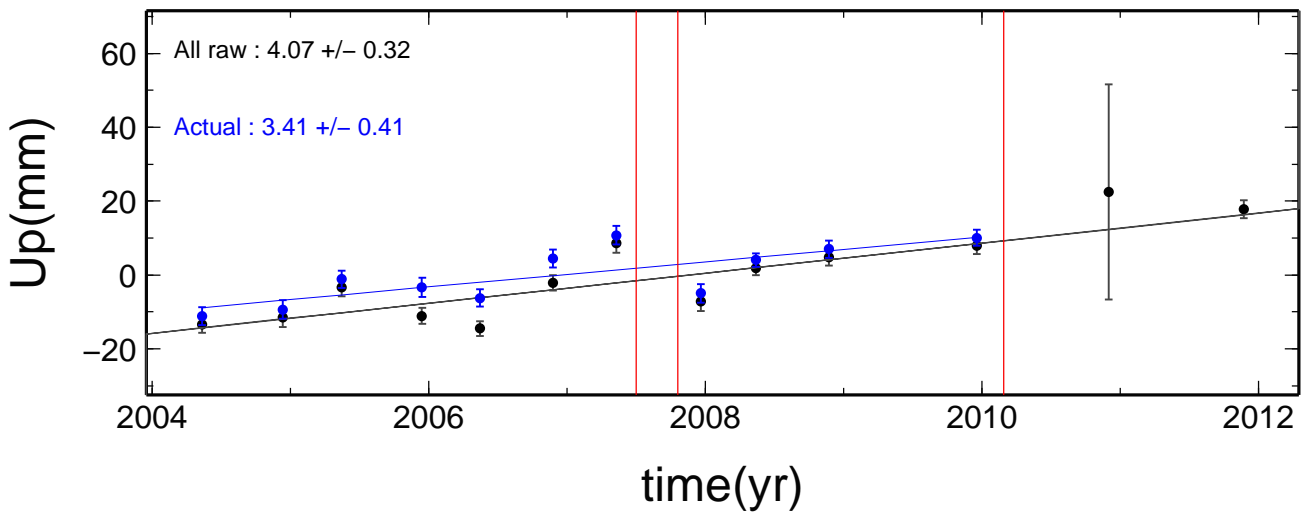
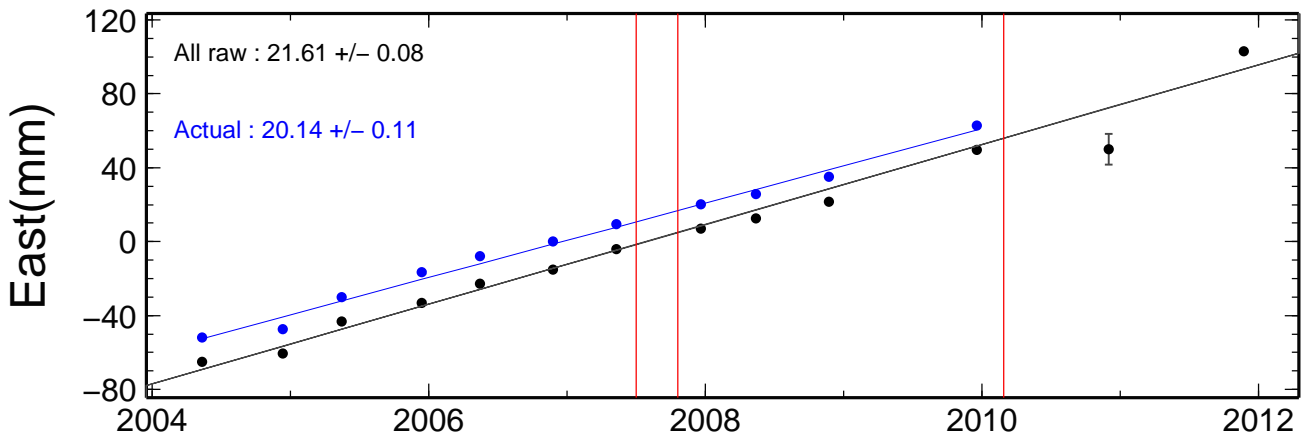
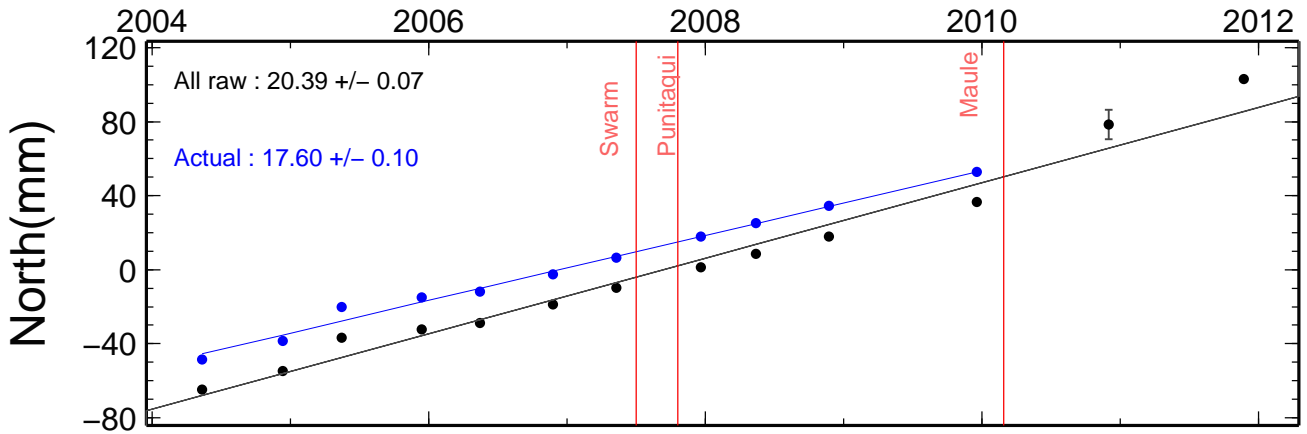
PLTT



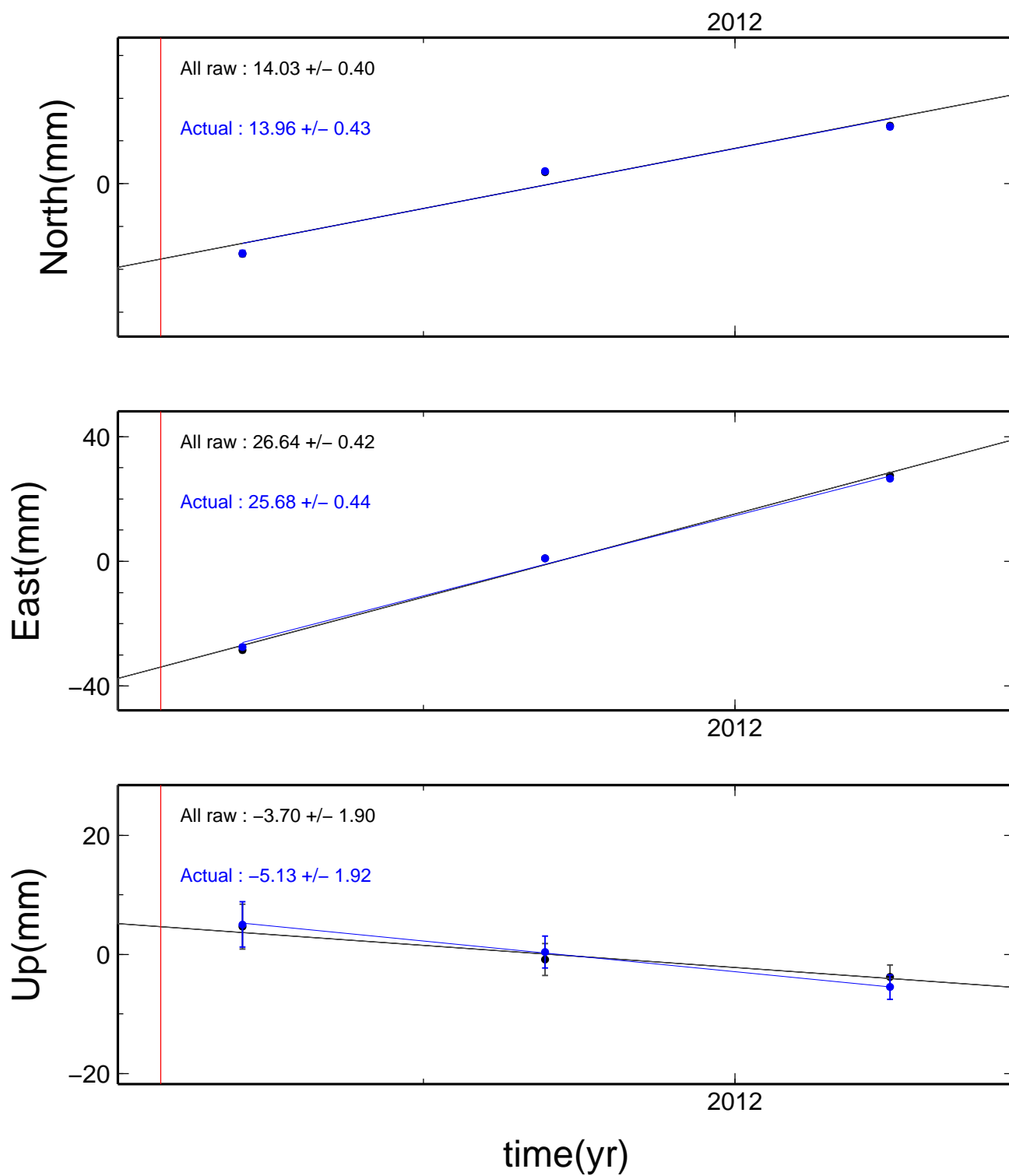
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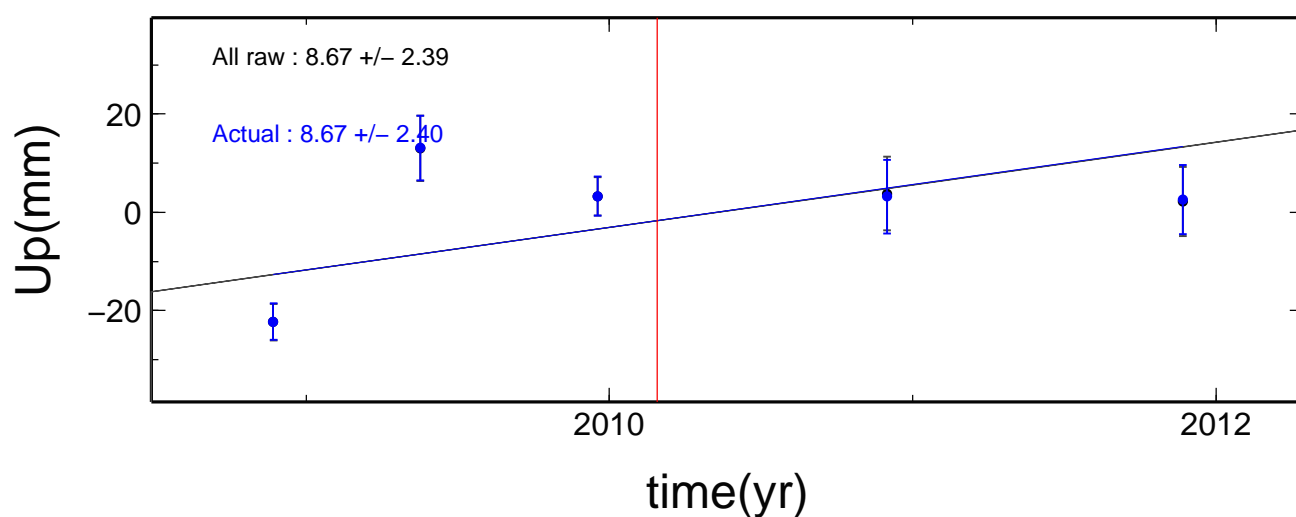
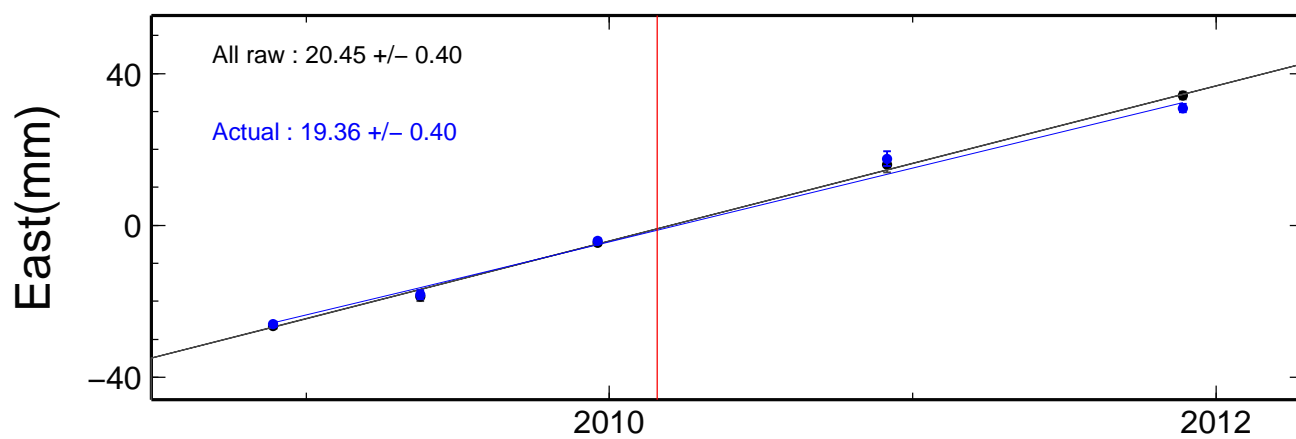
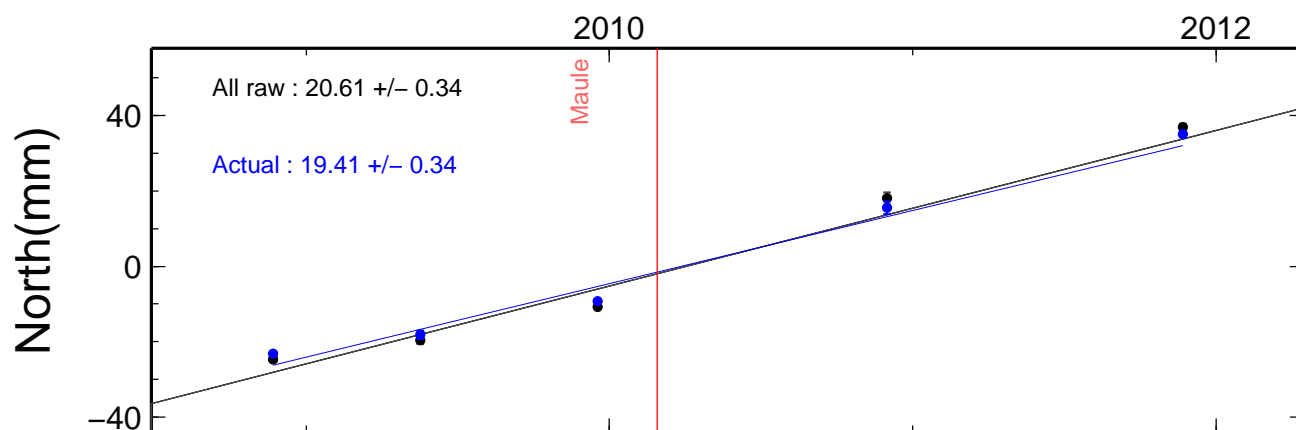
POBR



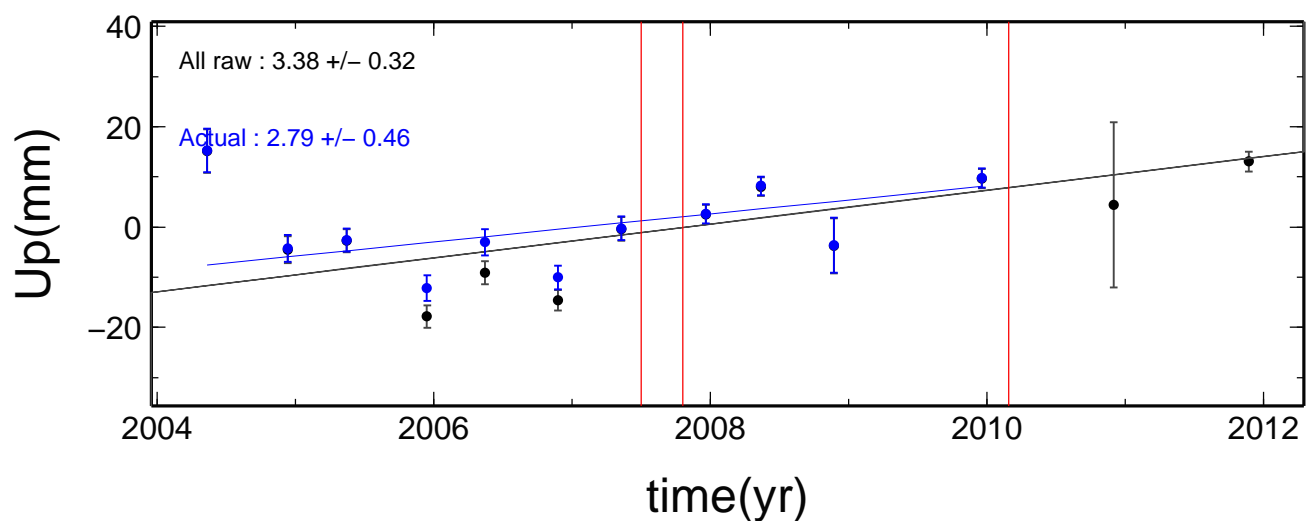
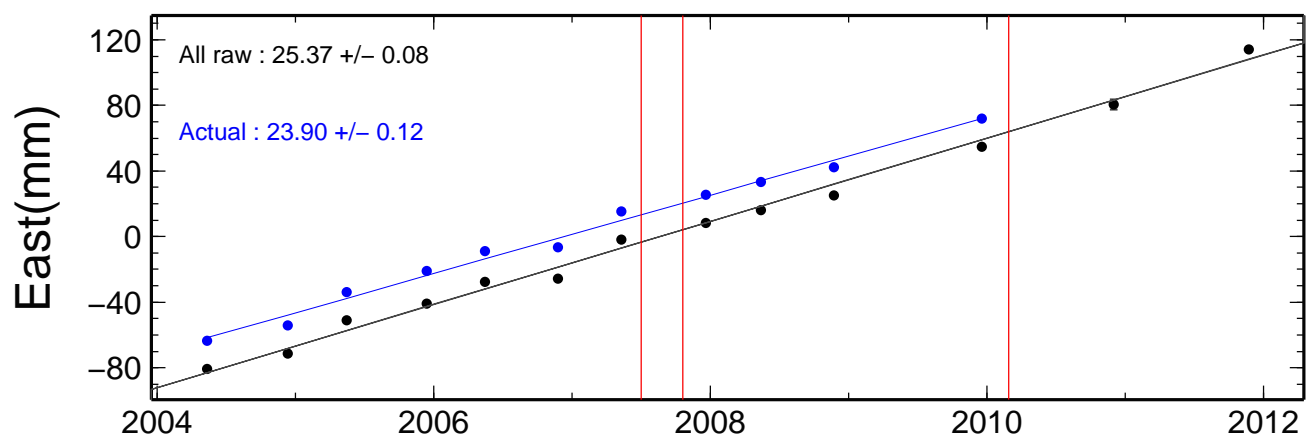
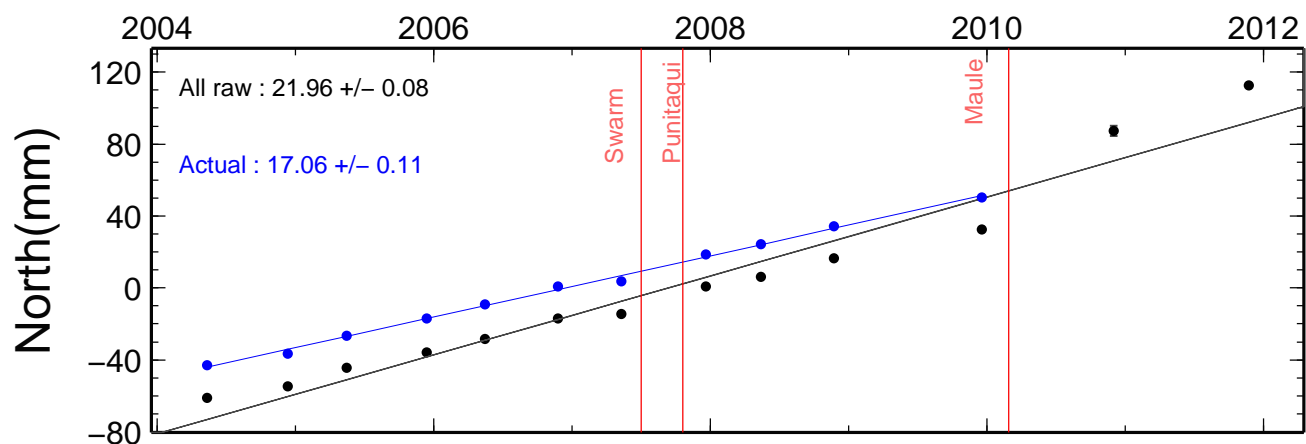
POTR



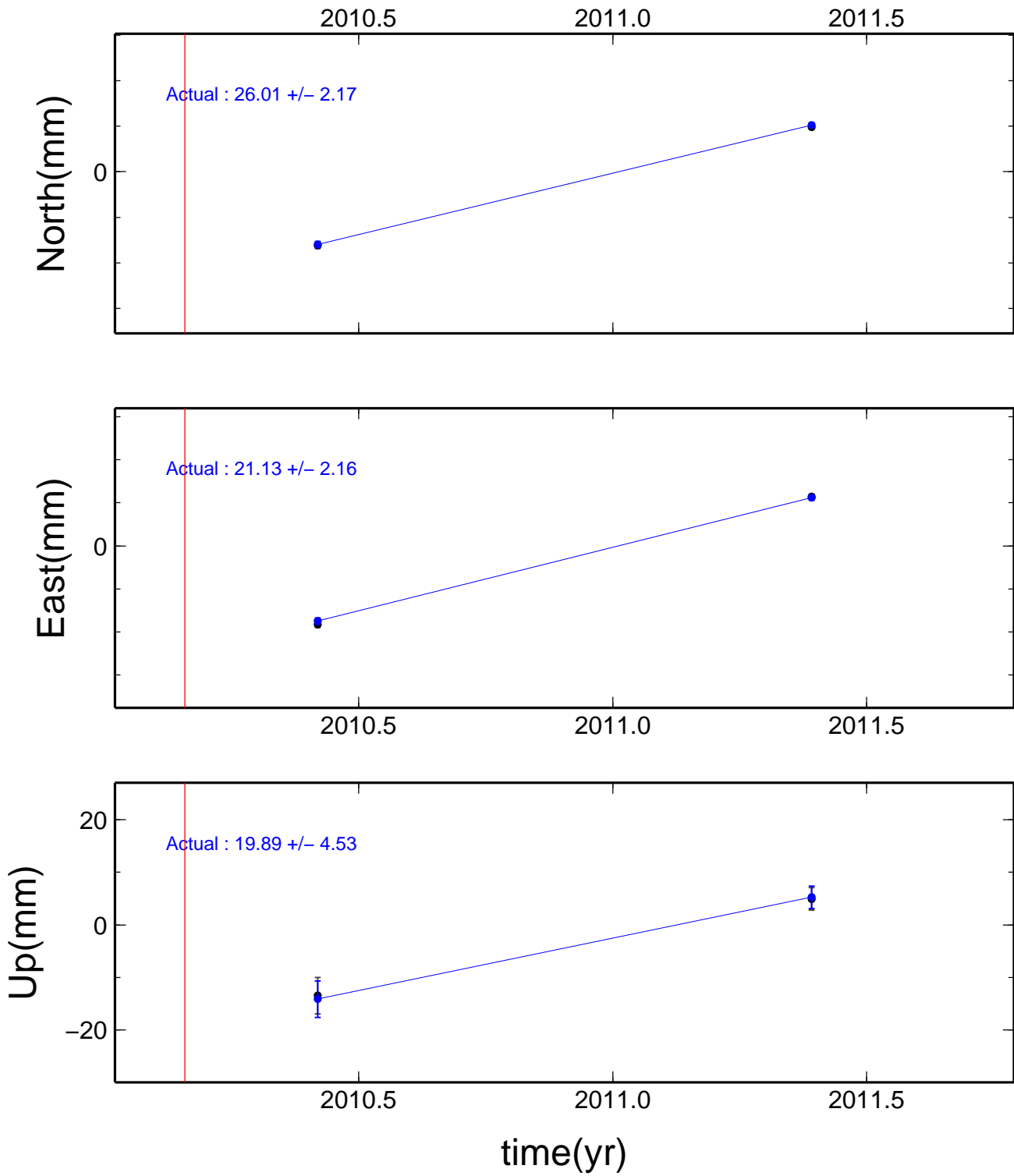
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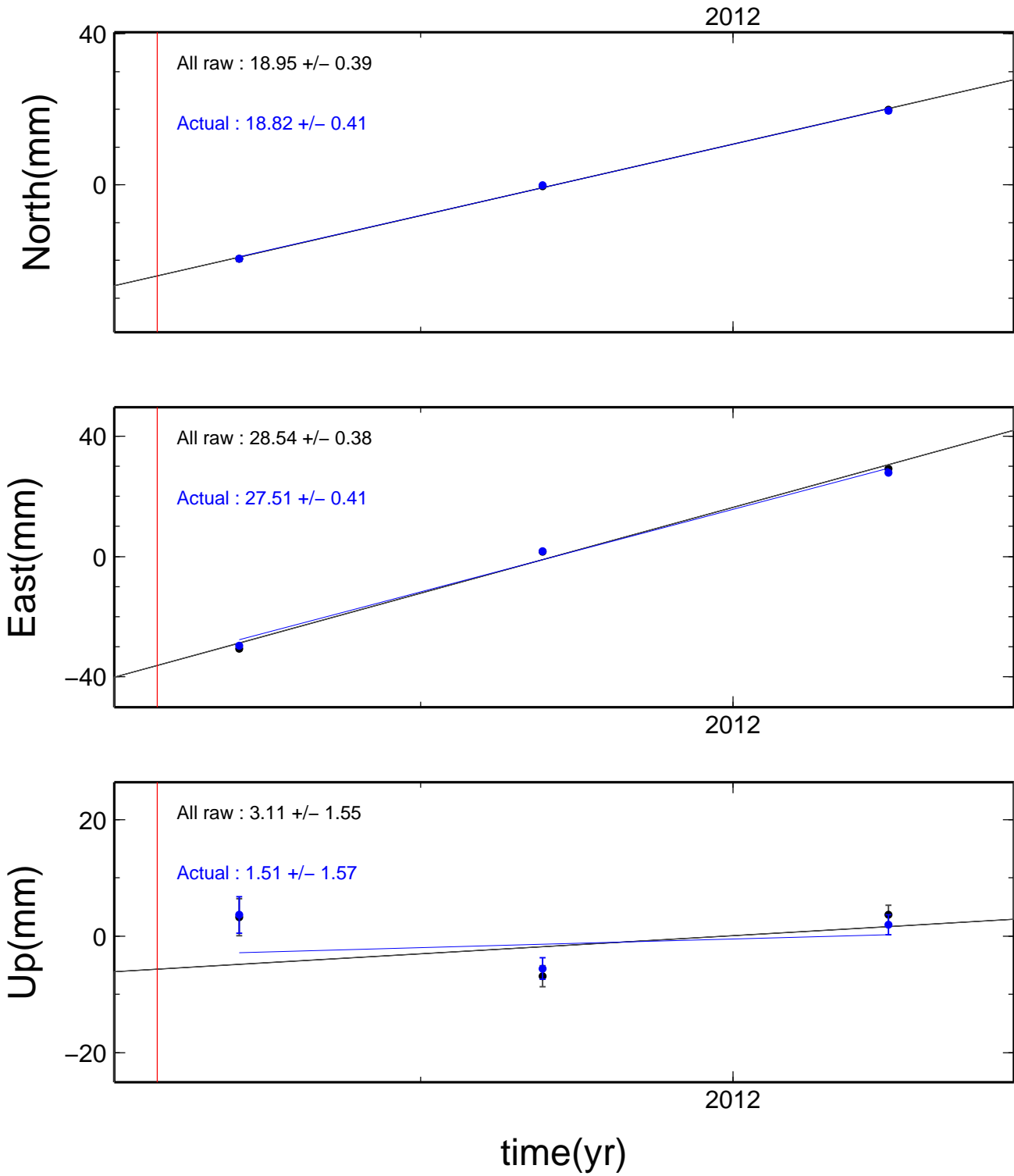
PTOM



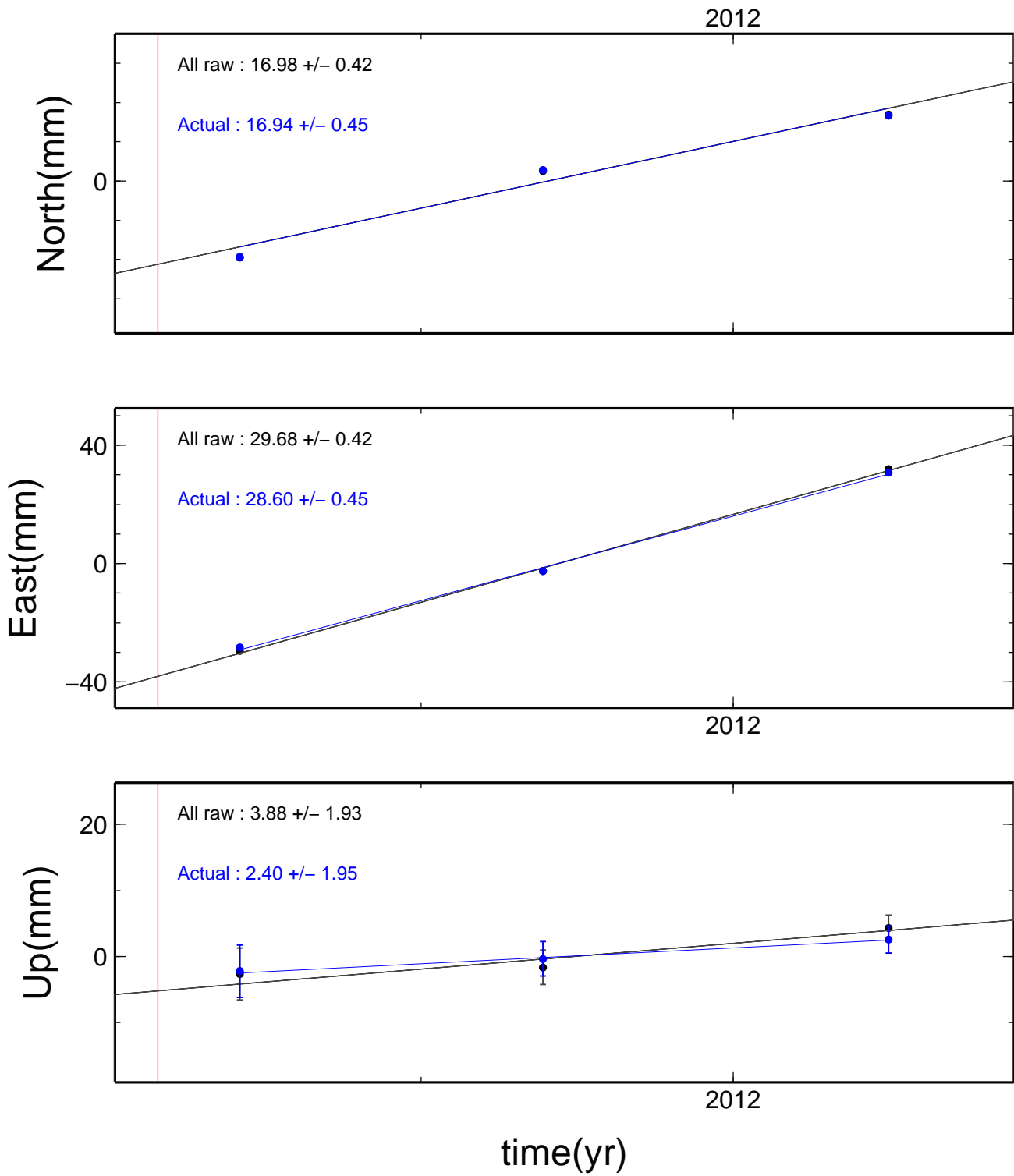
PUPI



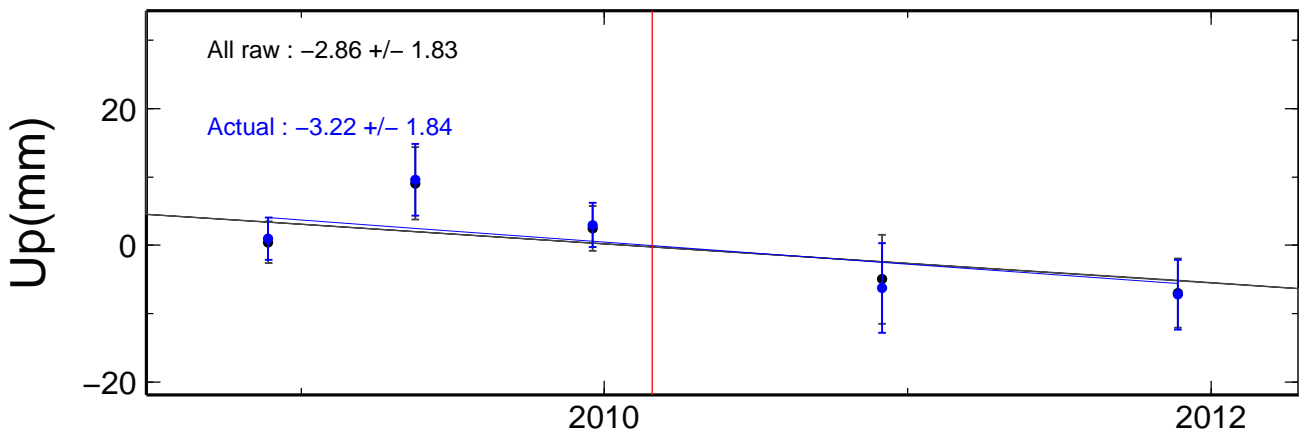
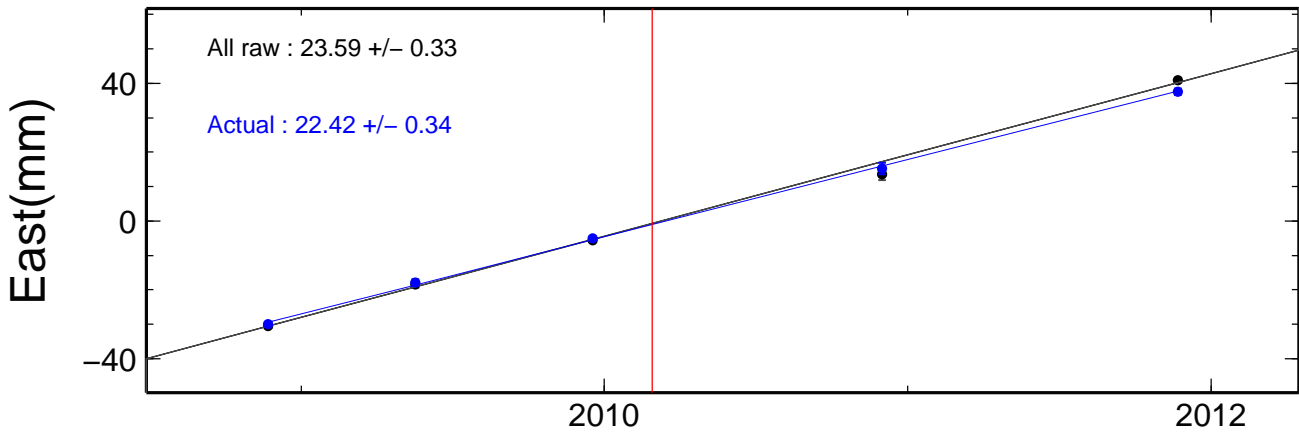
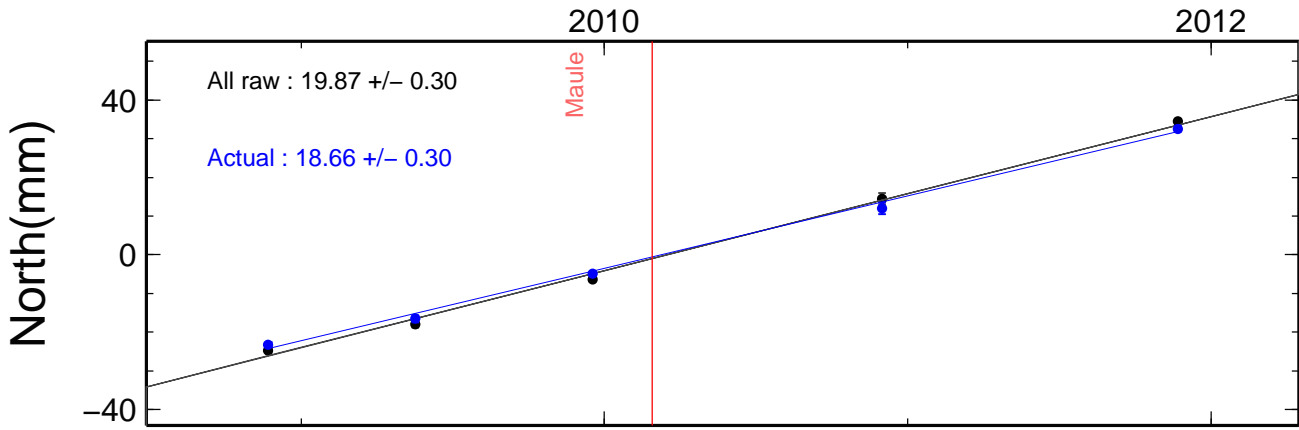
PVEJ



SALD

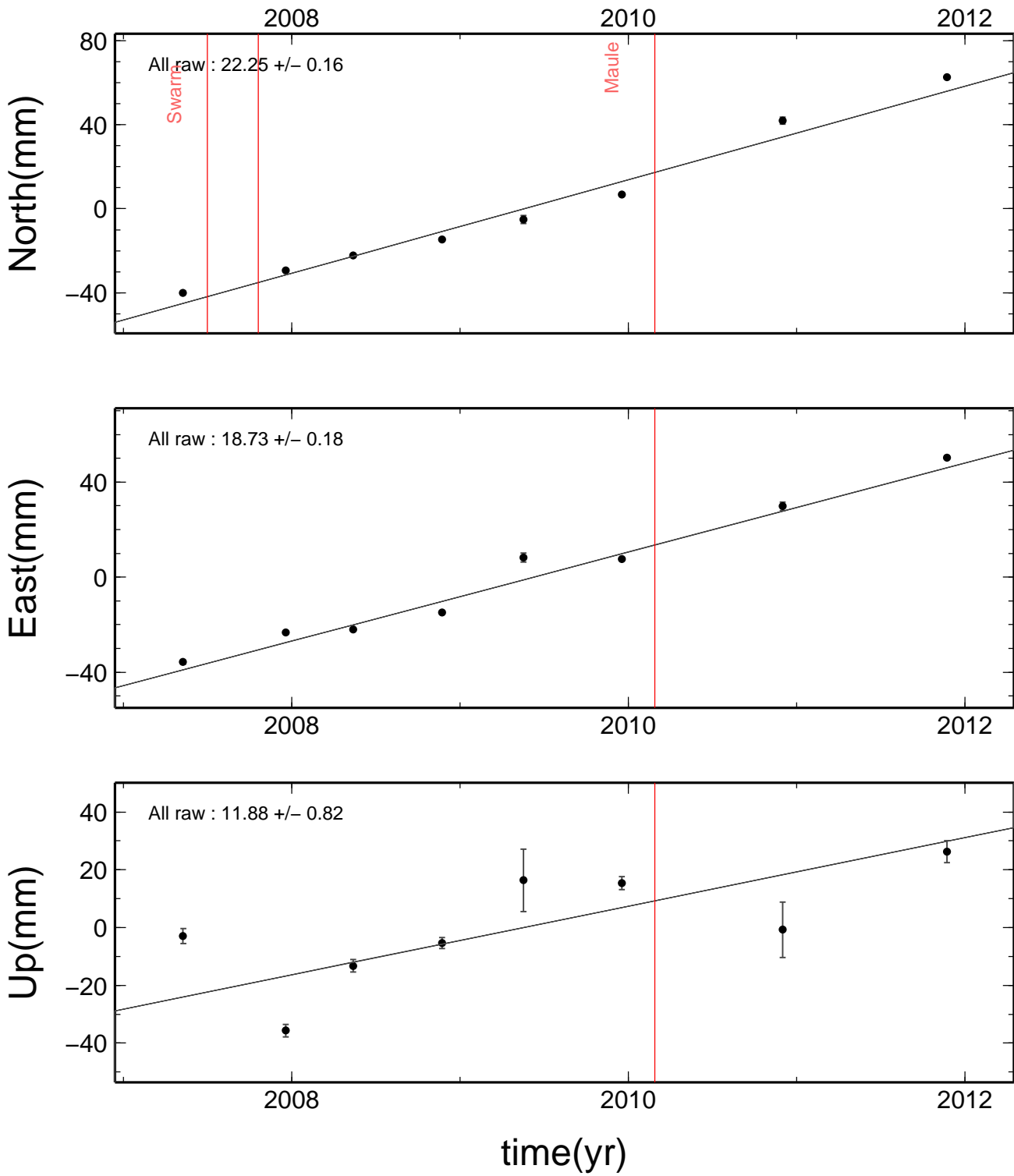


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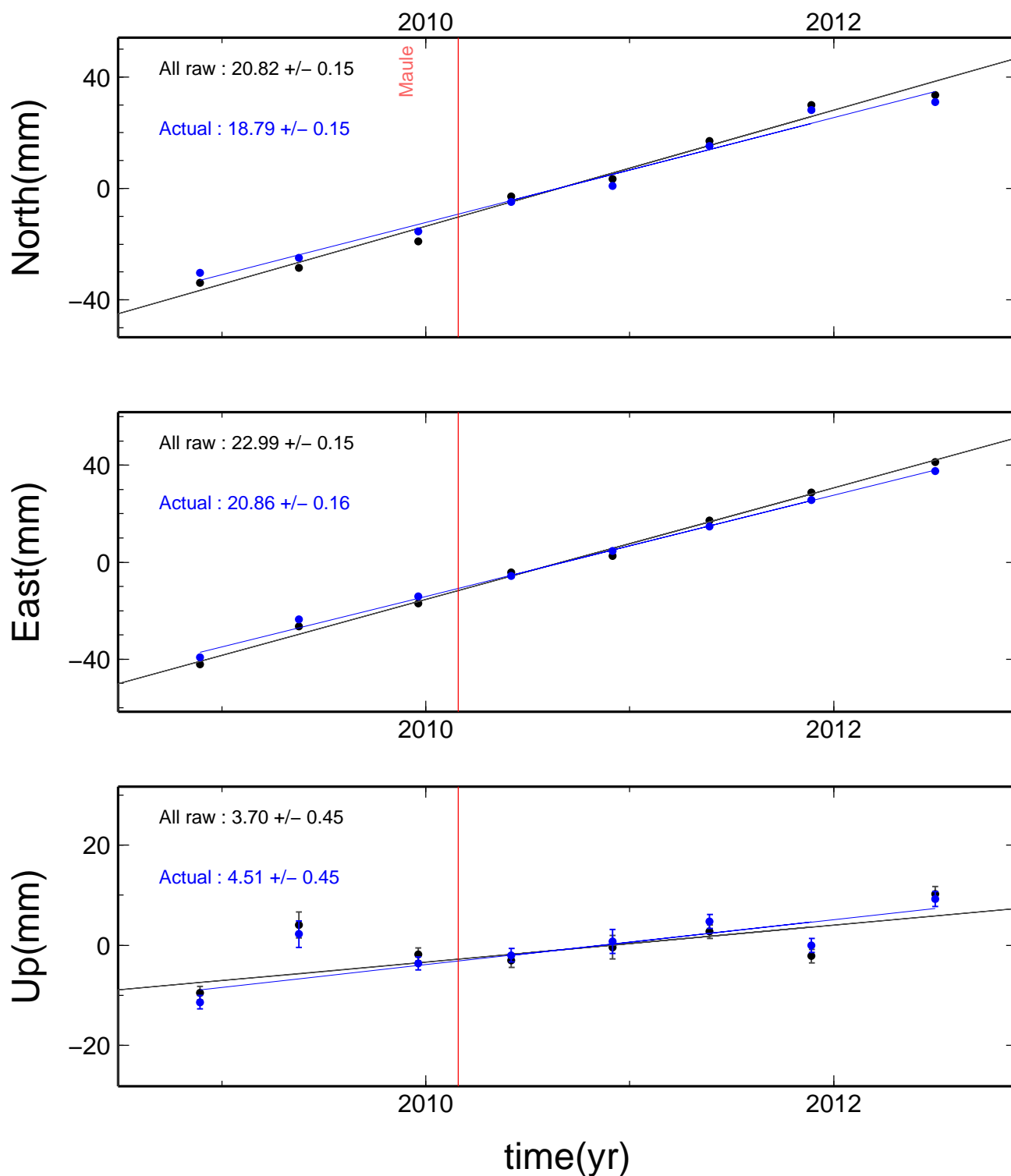


time(yr)

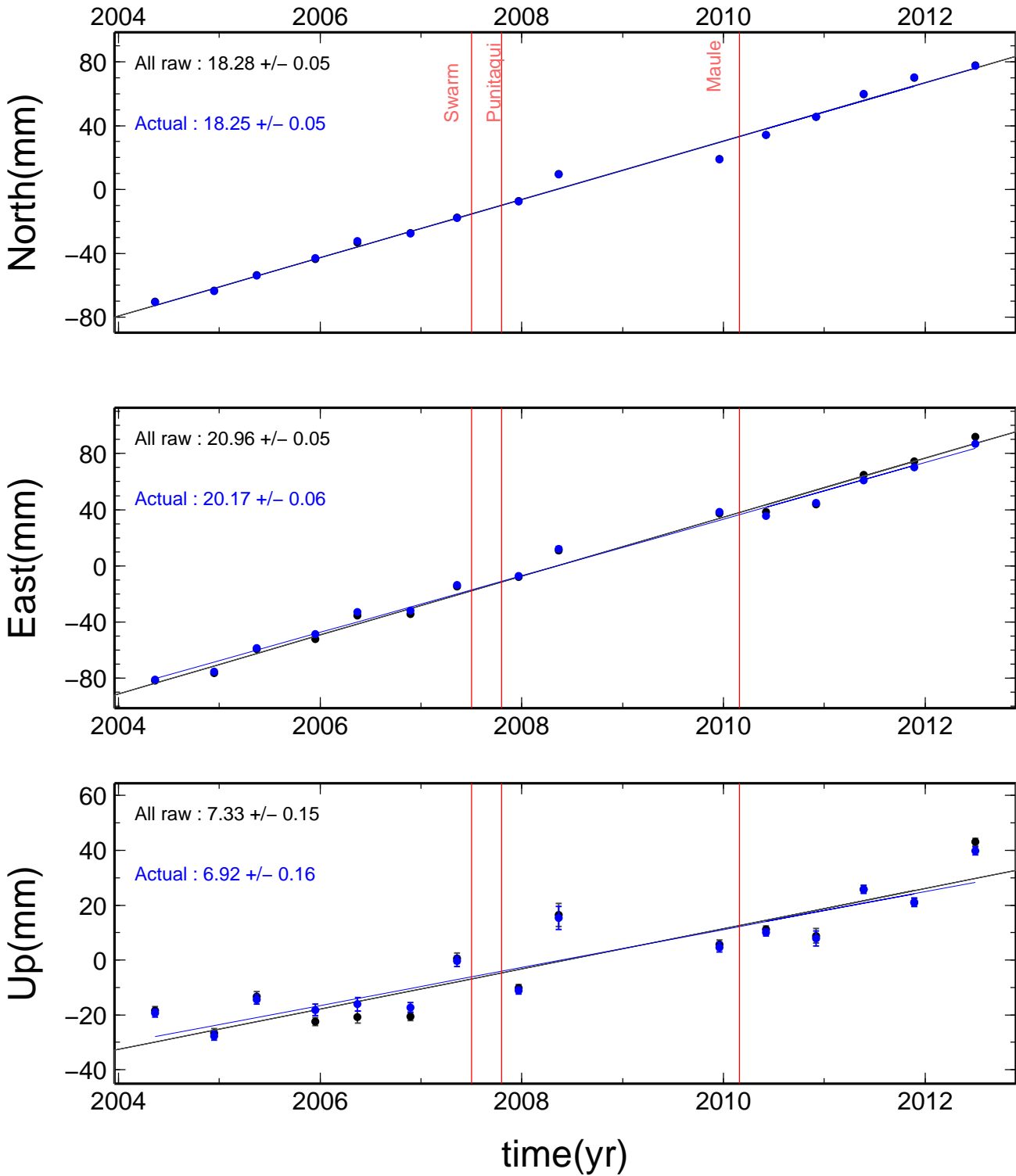
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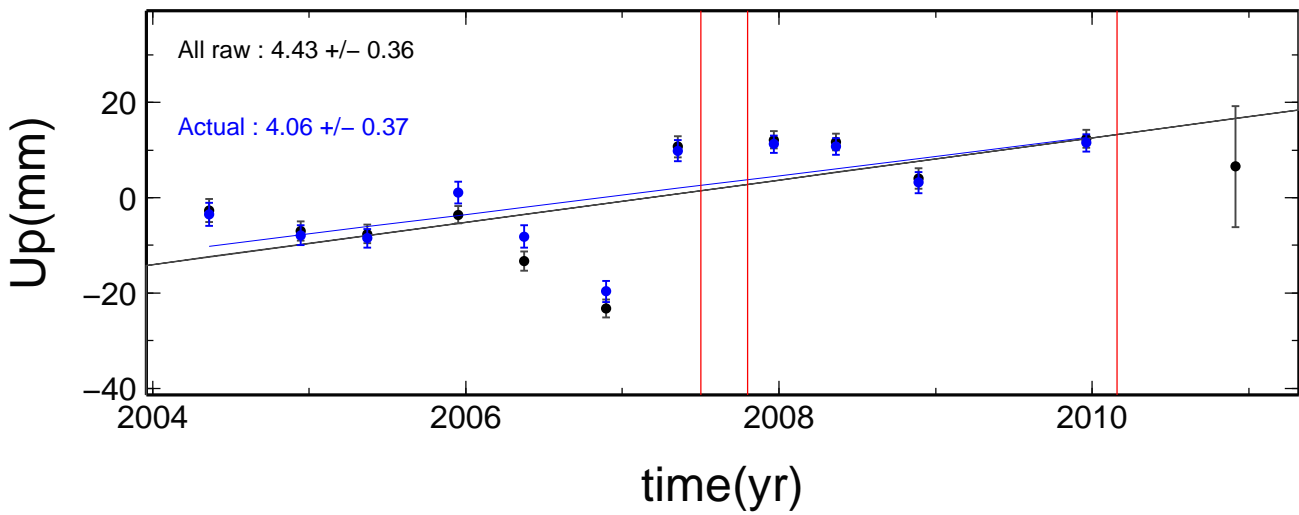
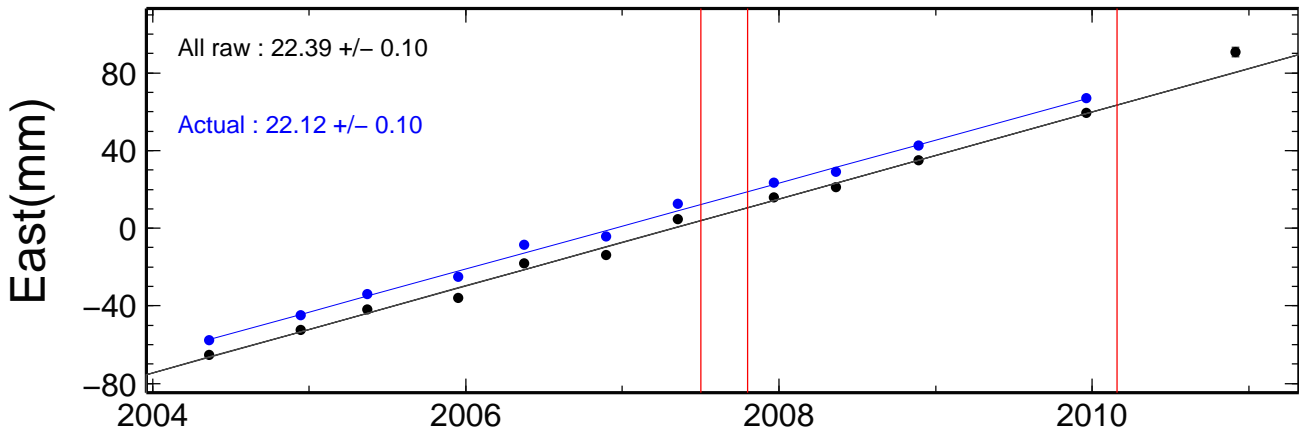
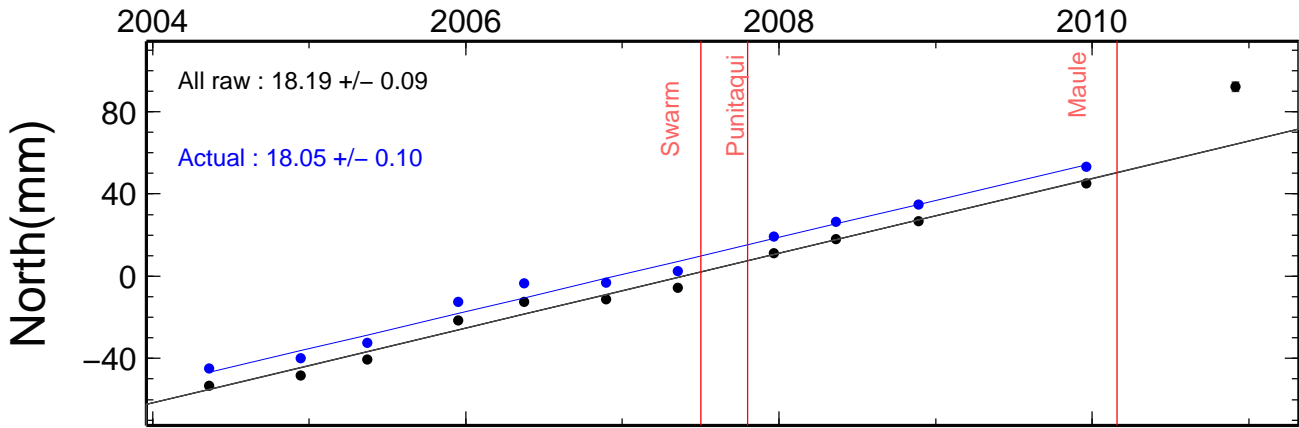
SILL



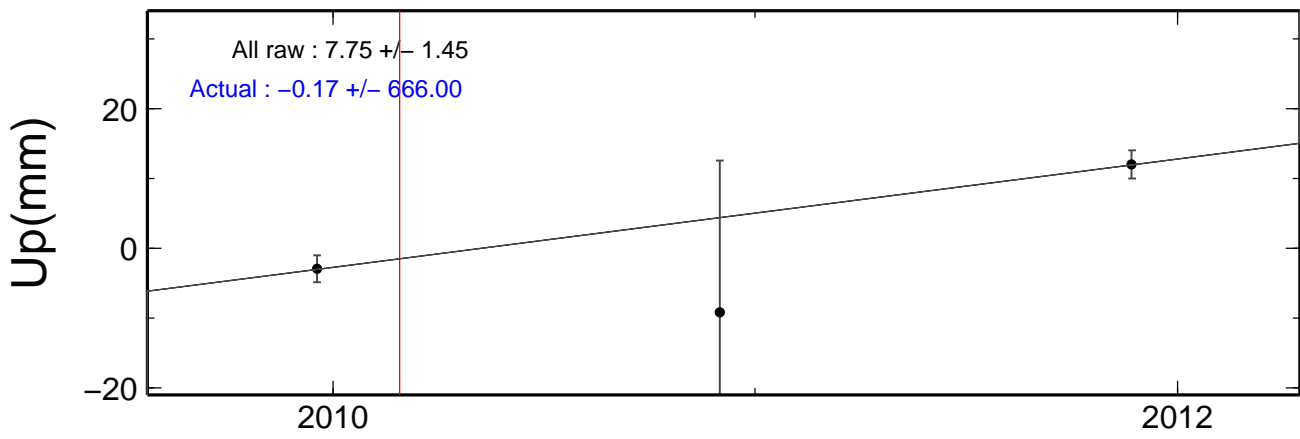
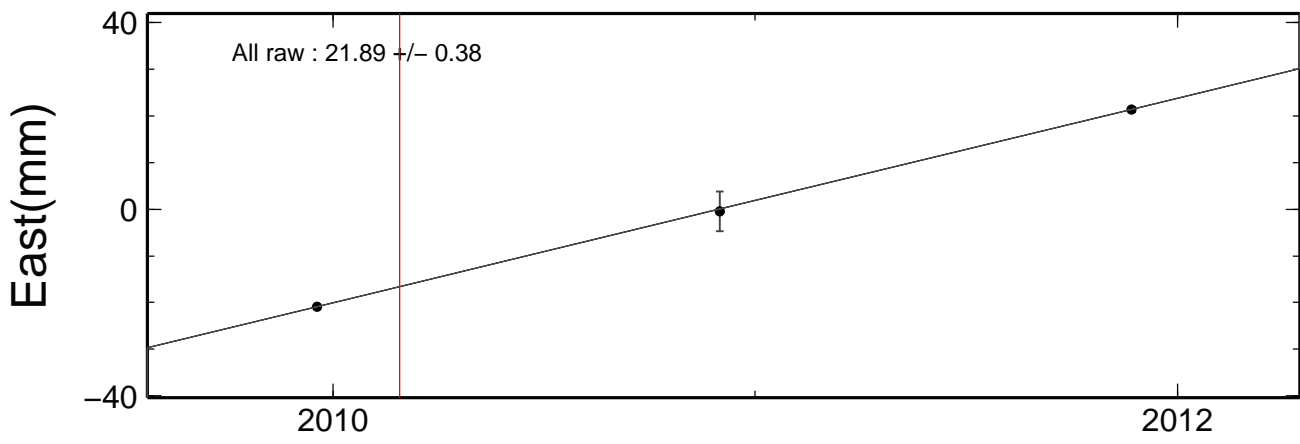
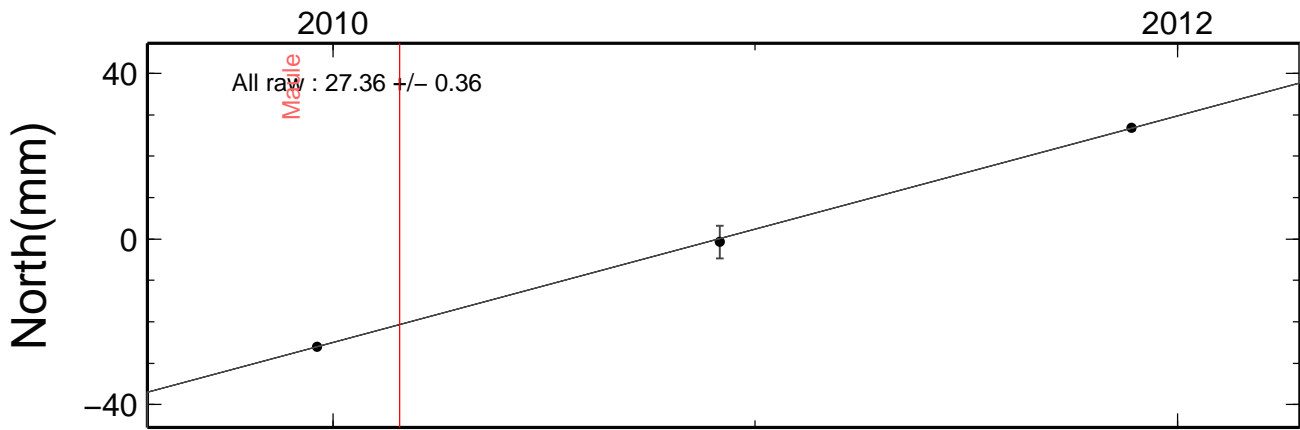
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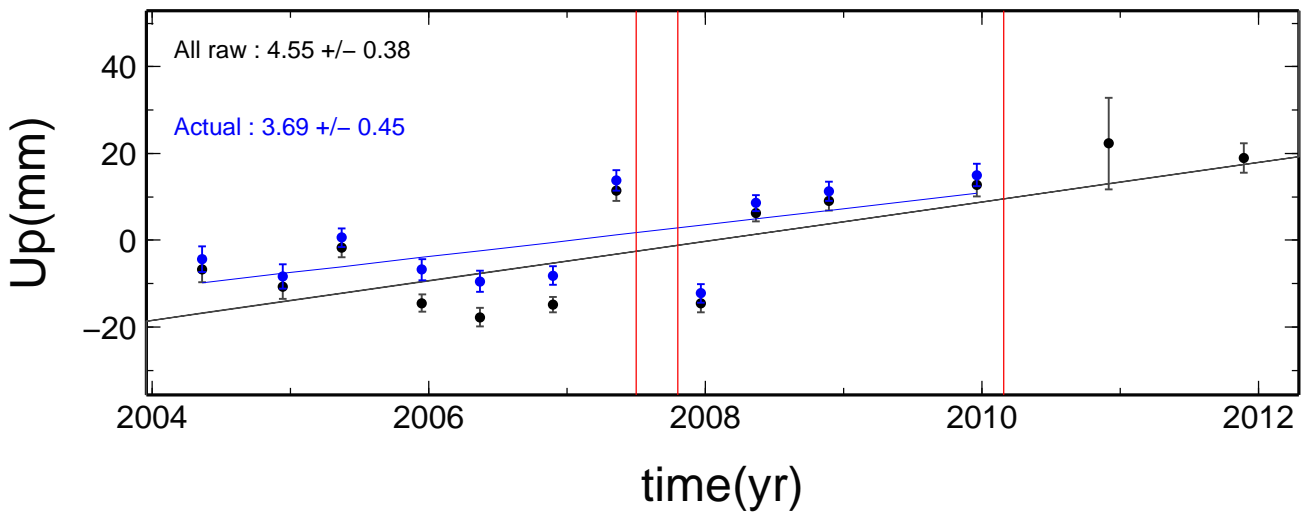
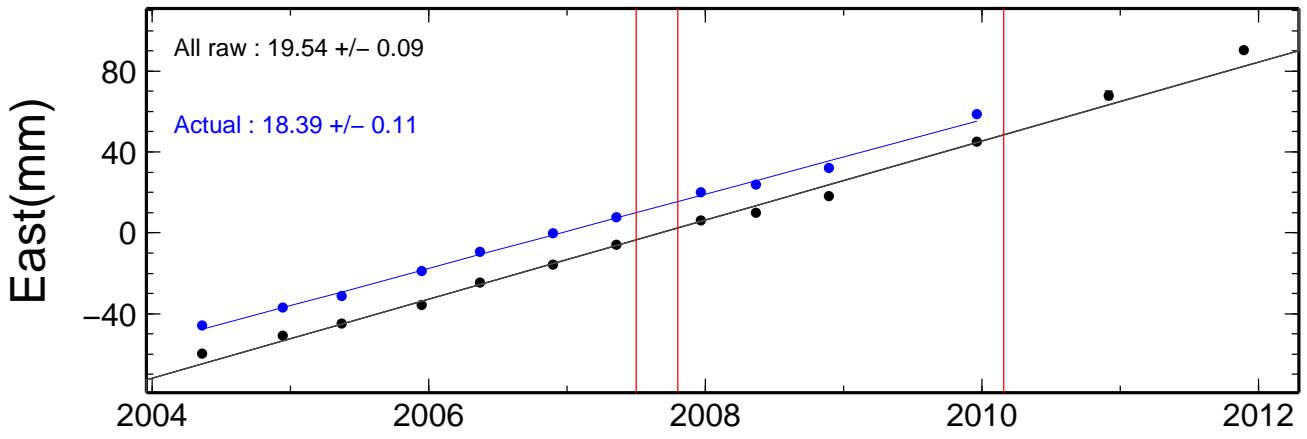
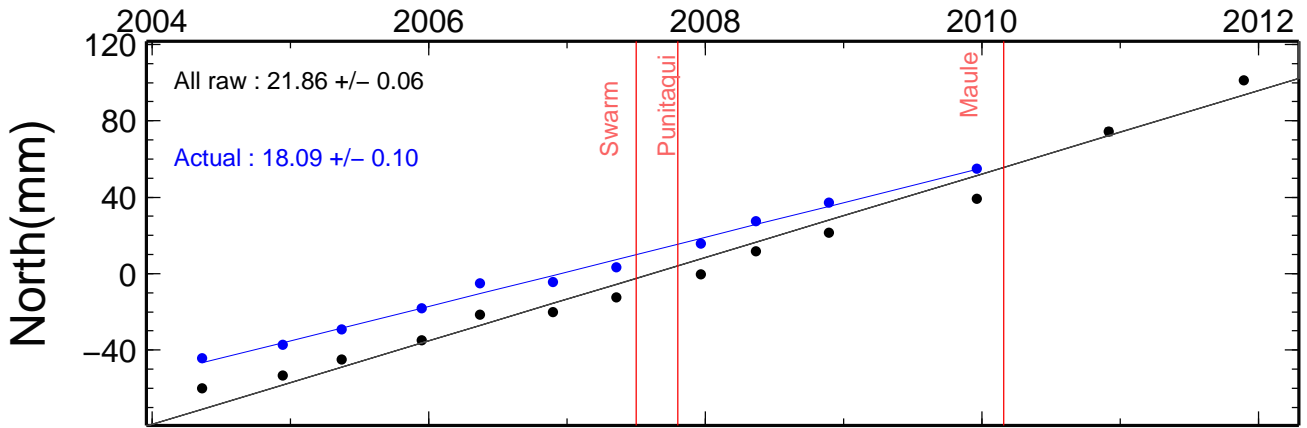


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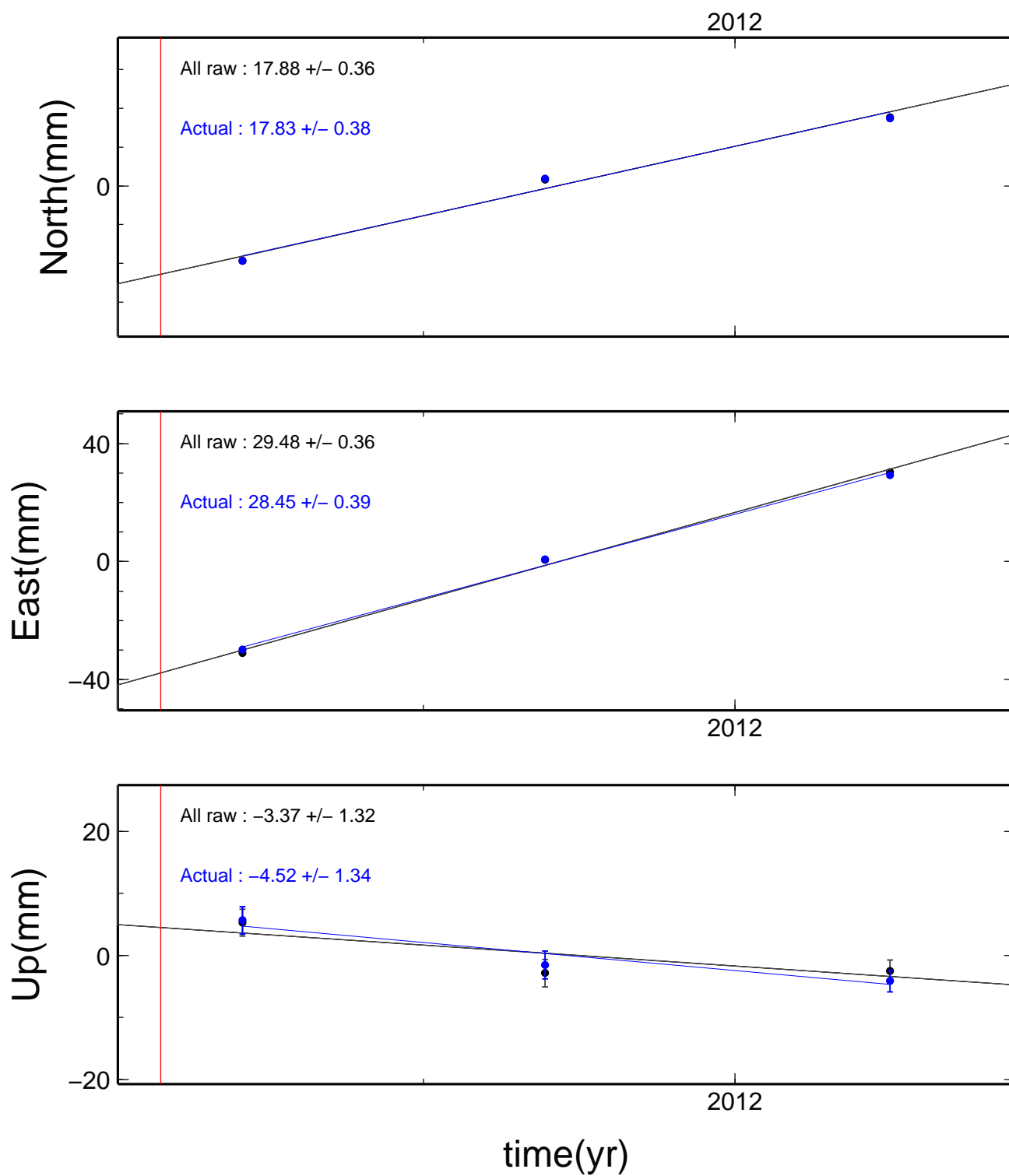


time(yr)

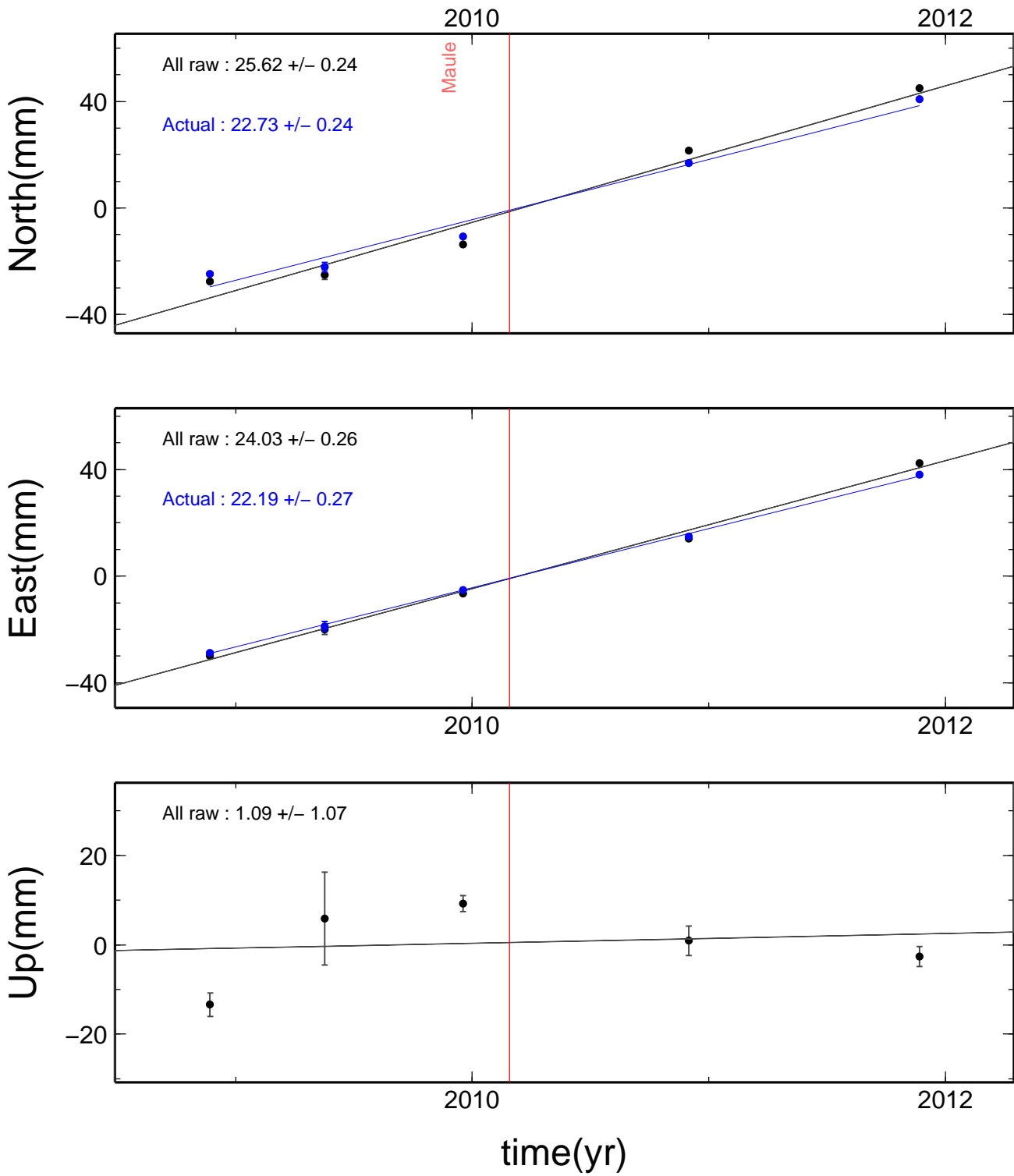
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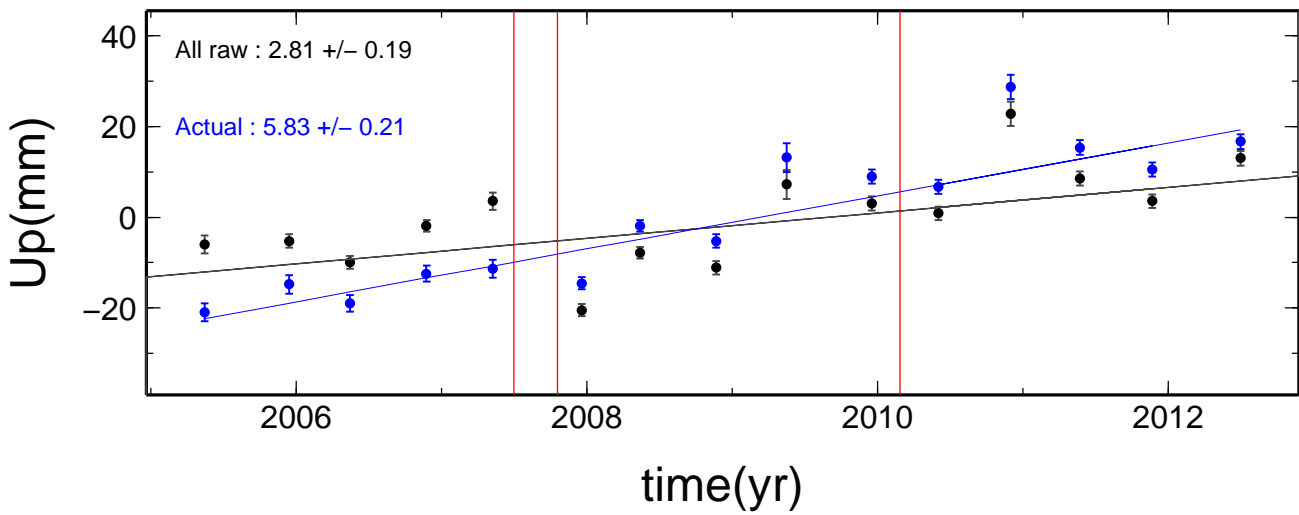
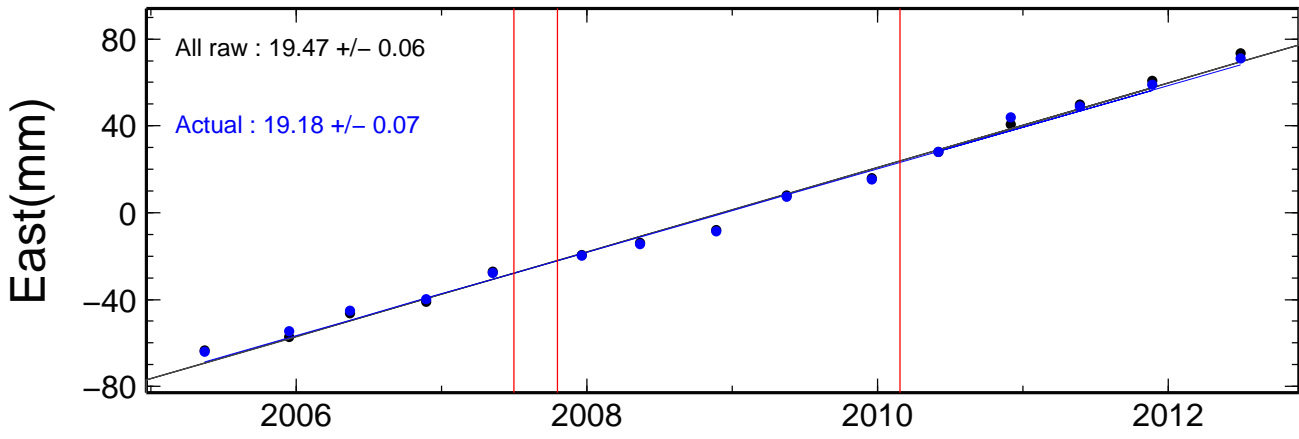
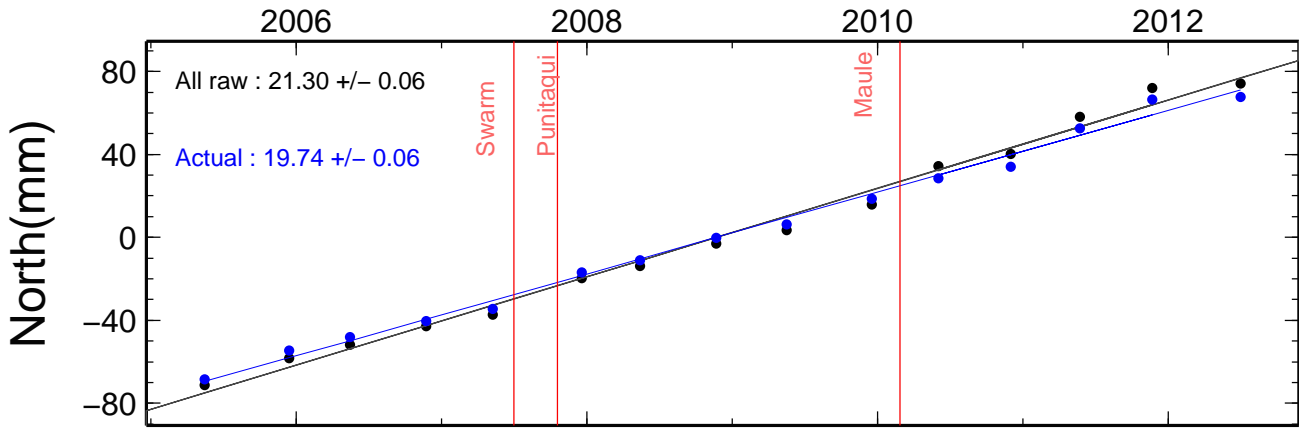
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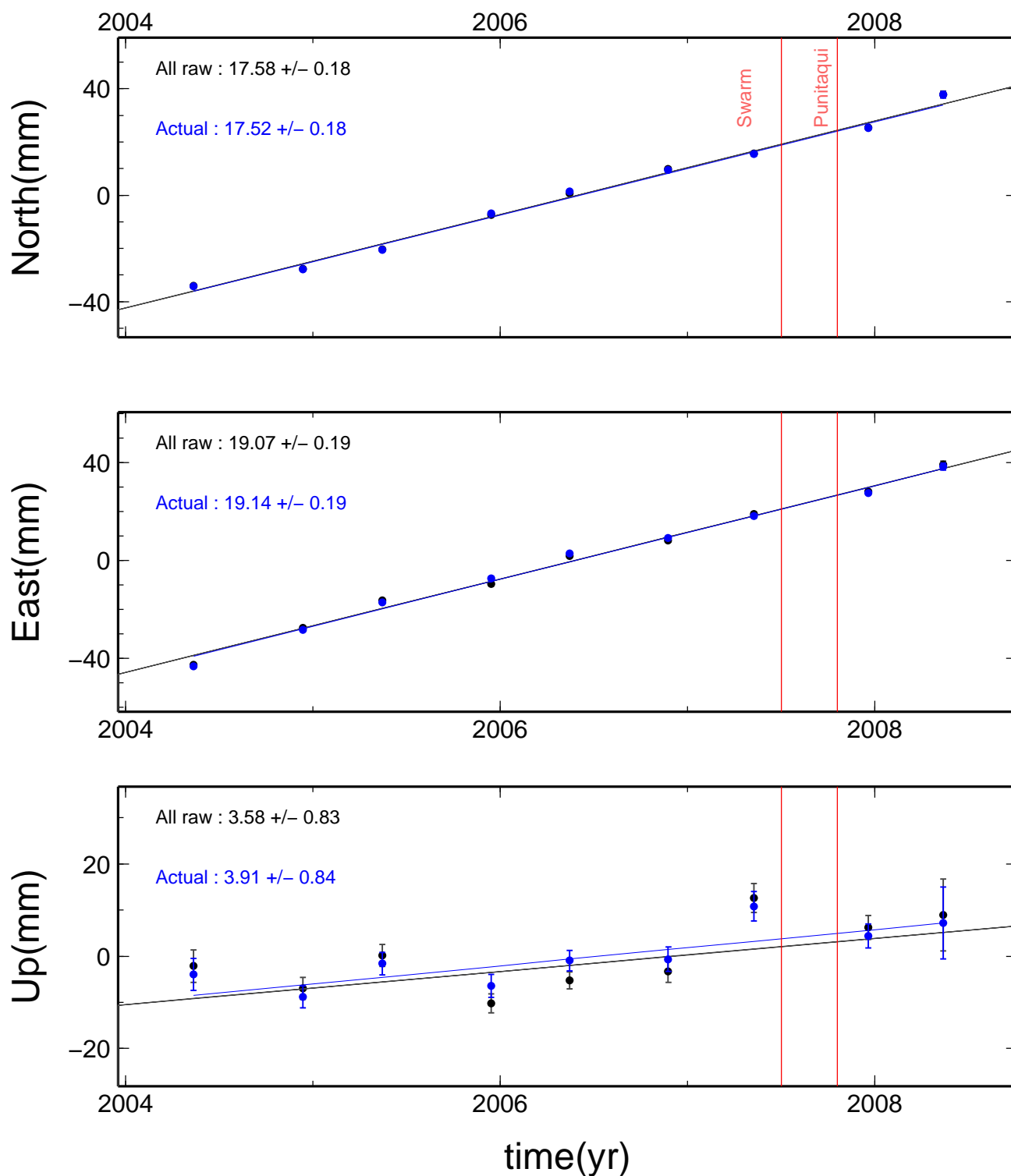
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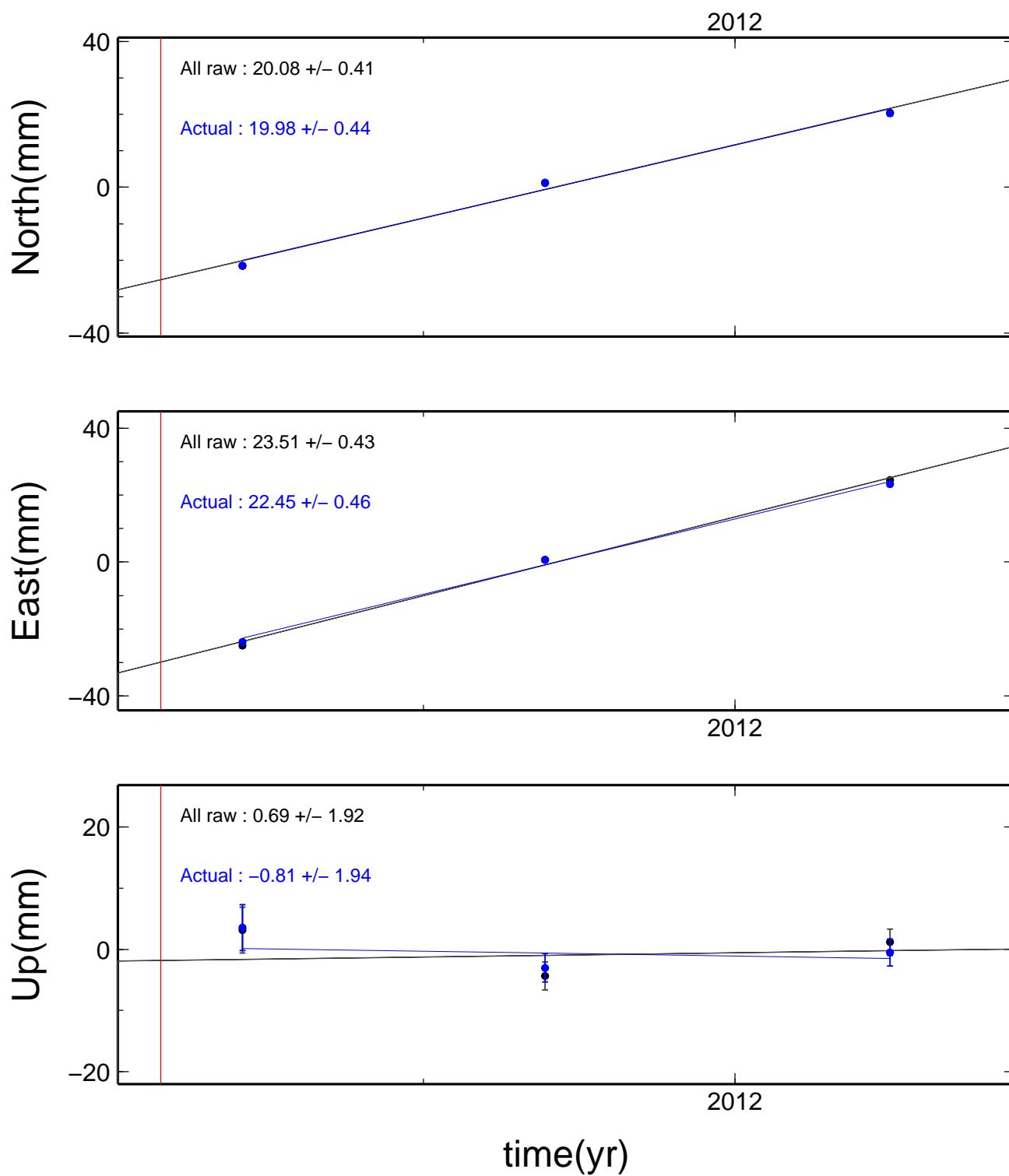
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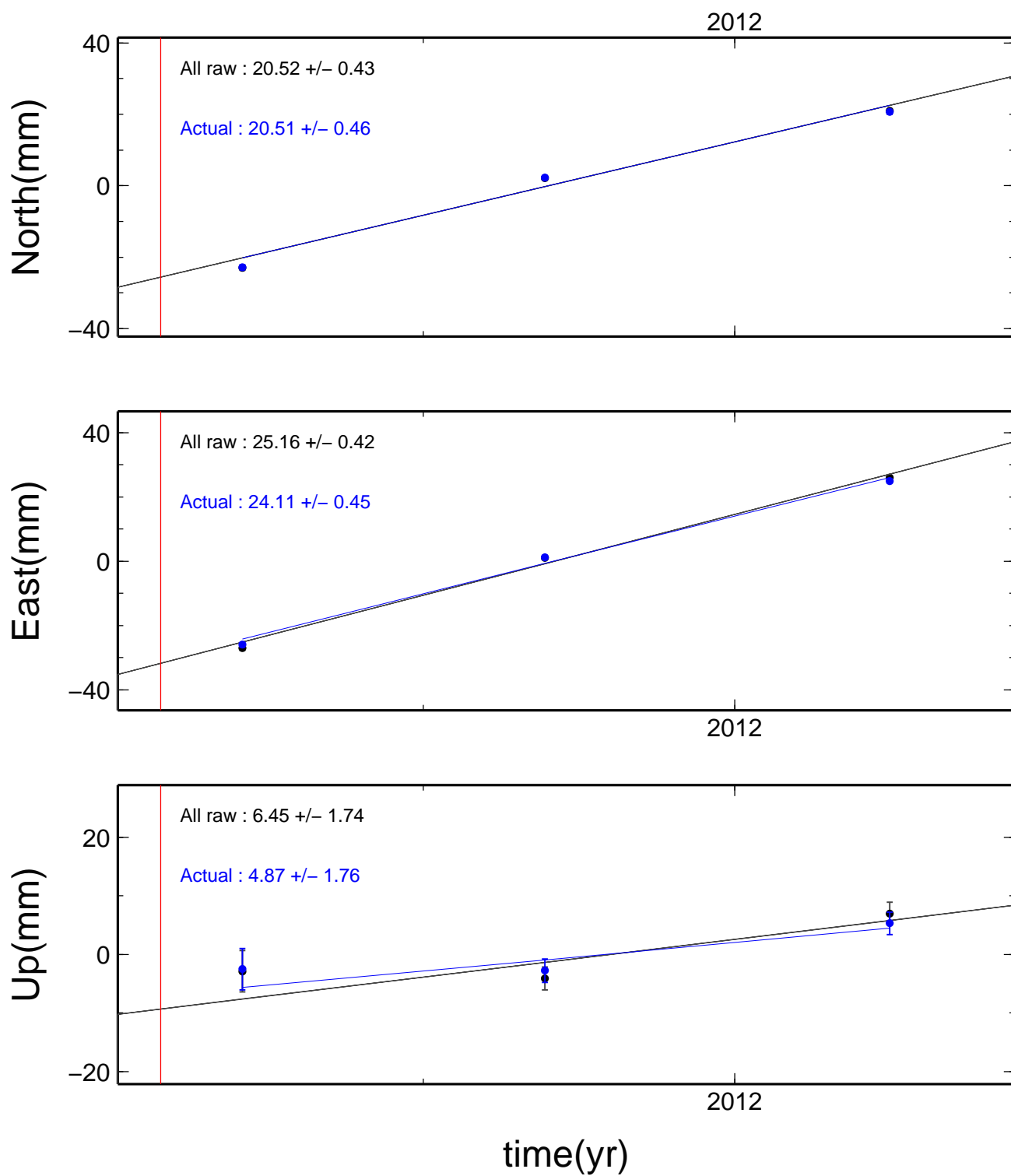
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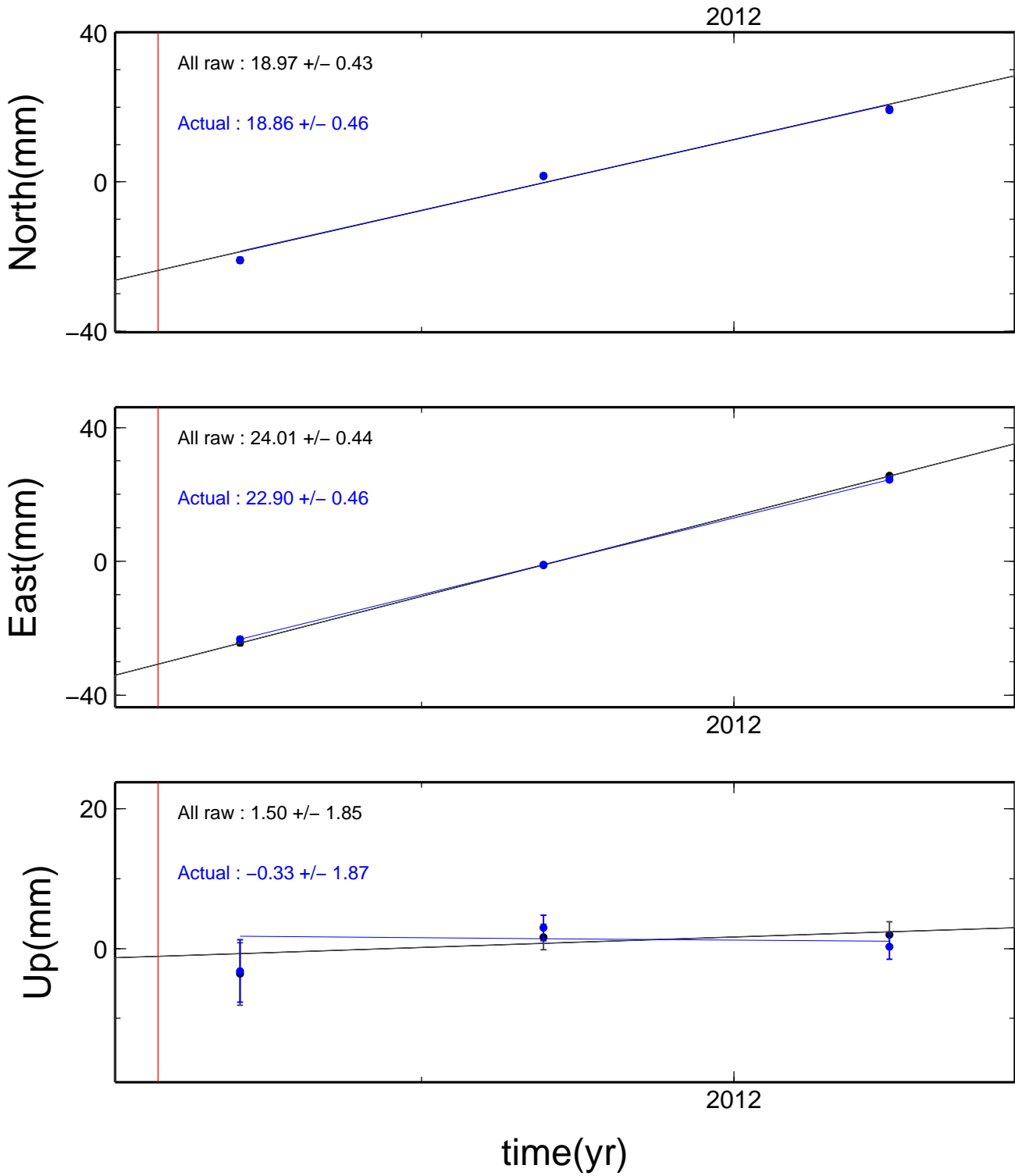
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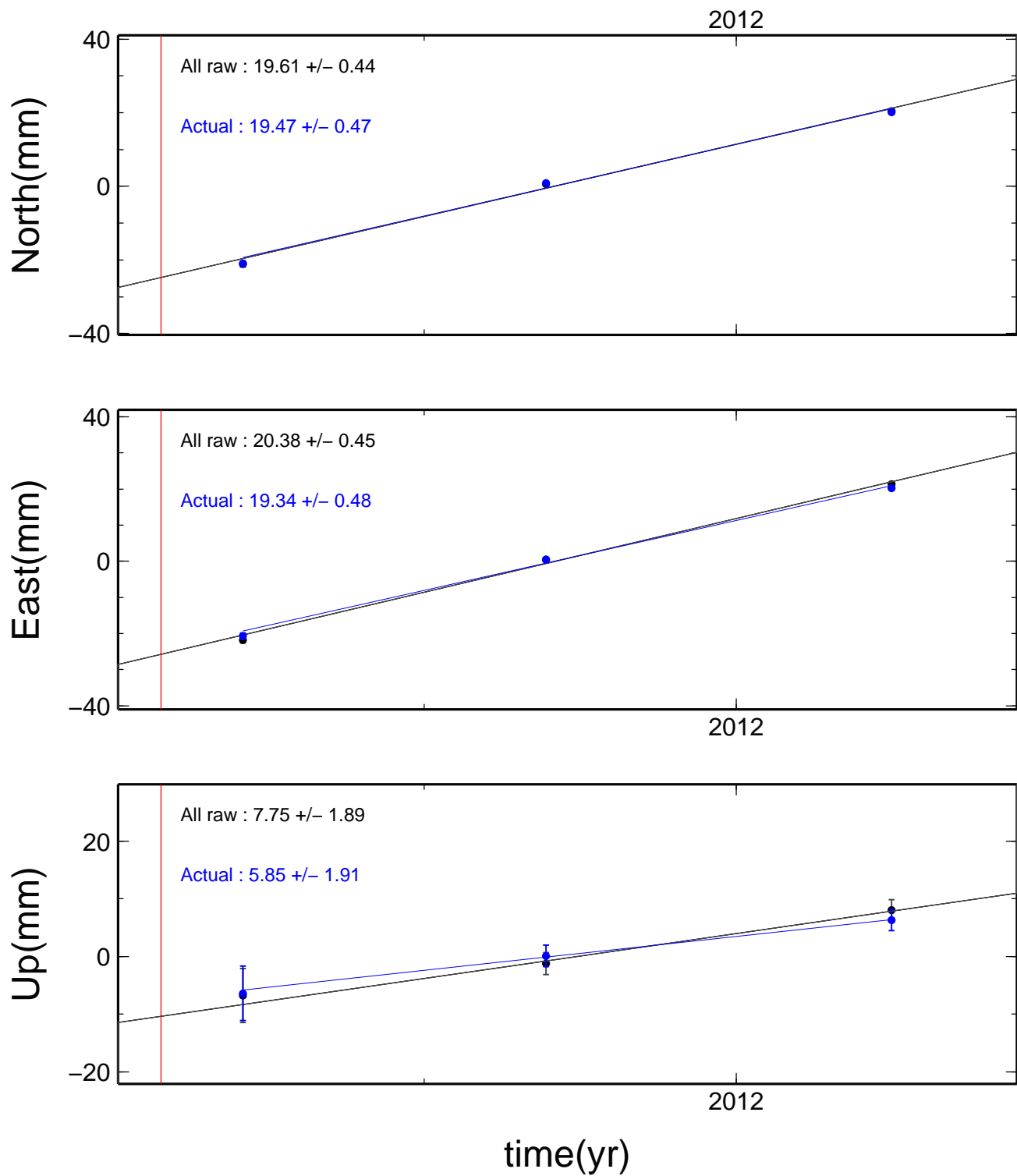
TOT3



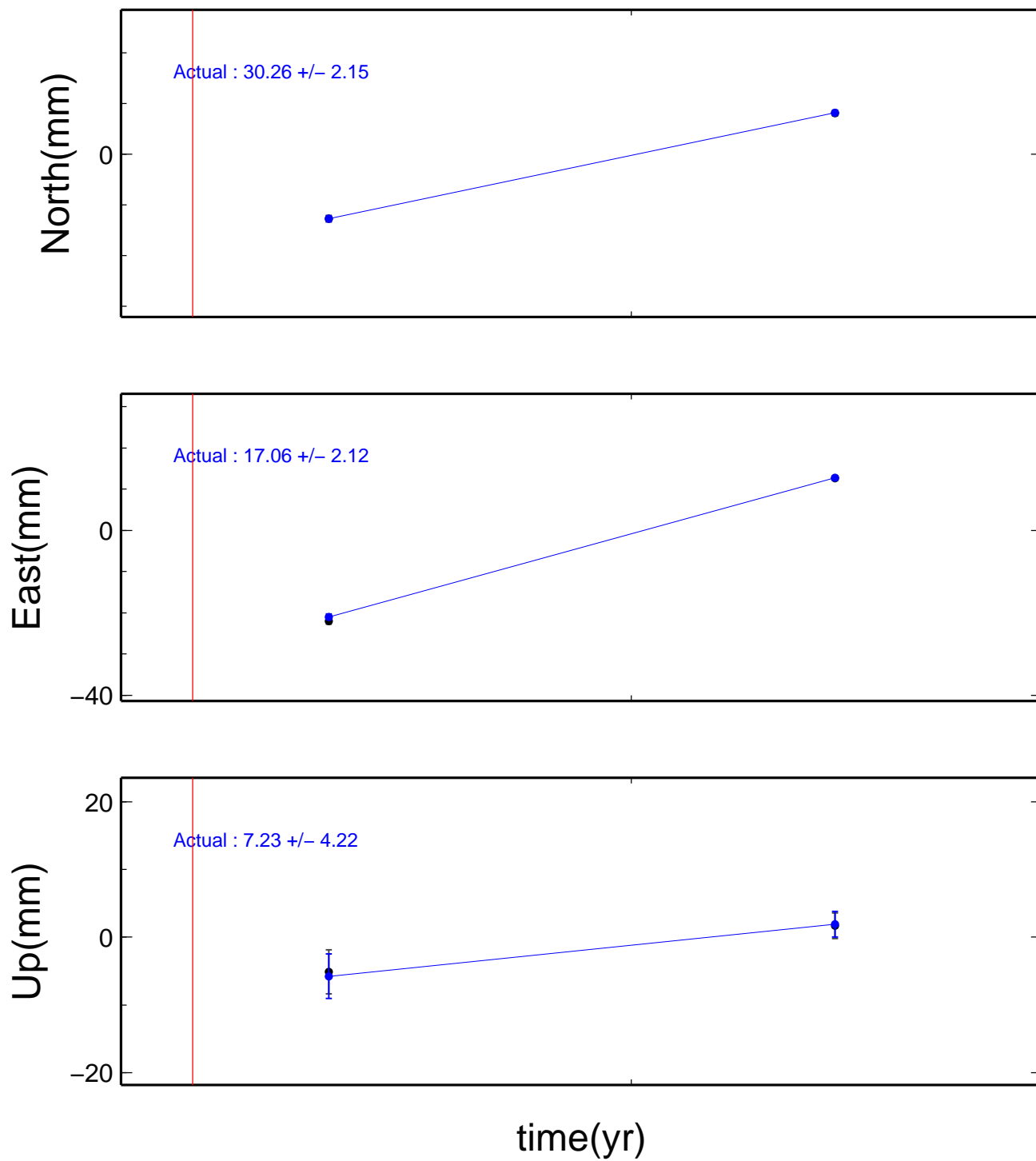
TOT4



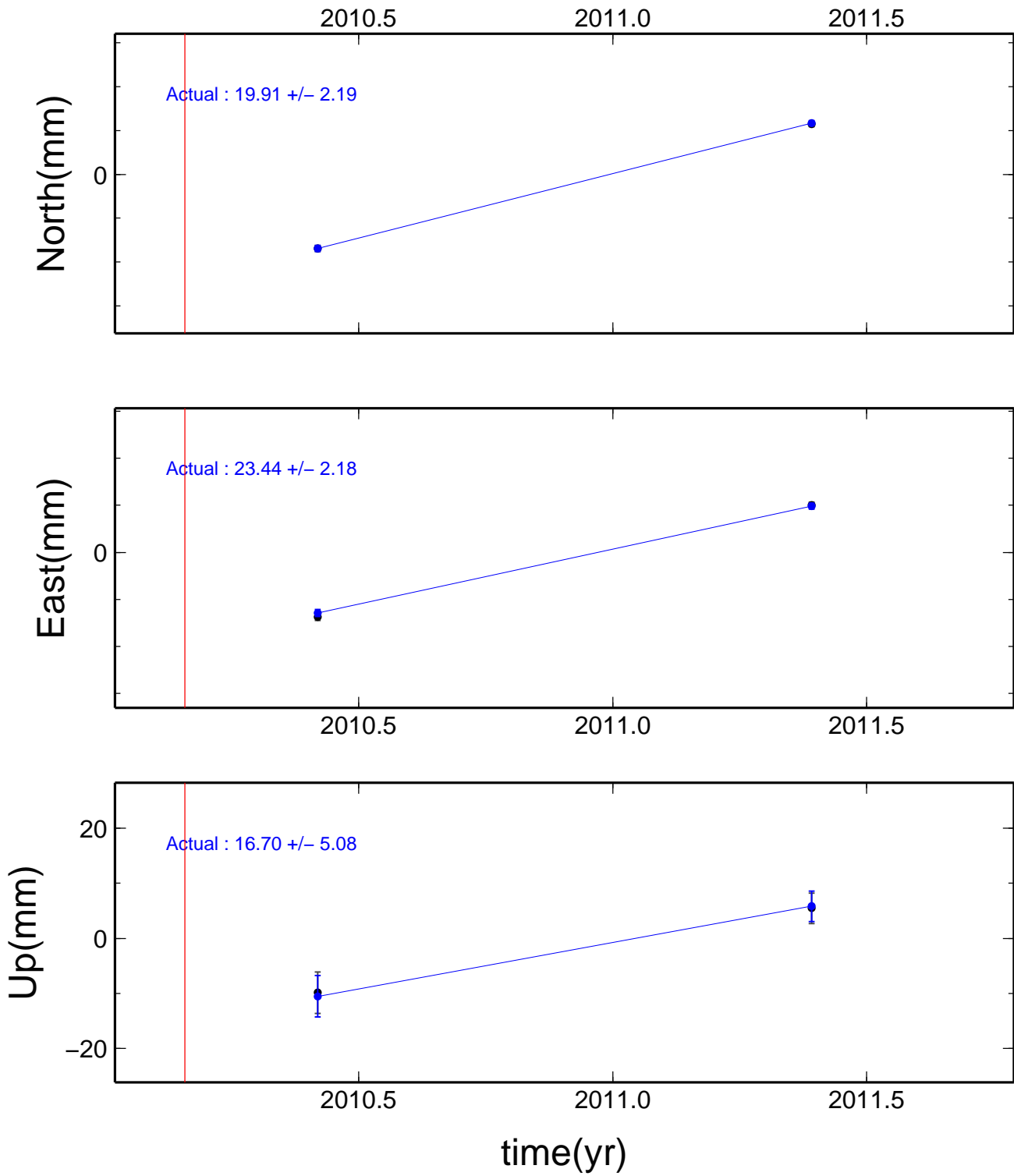
TOT5



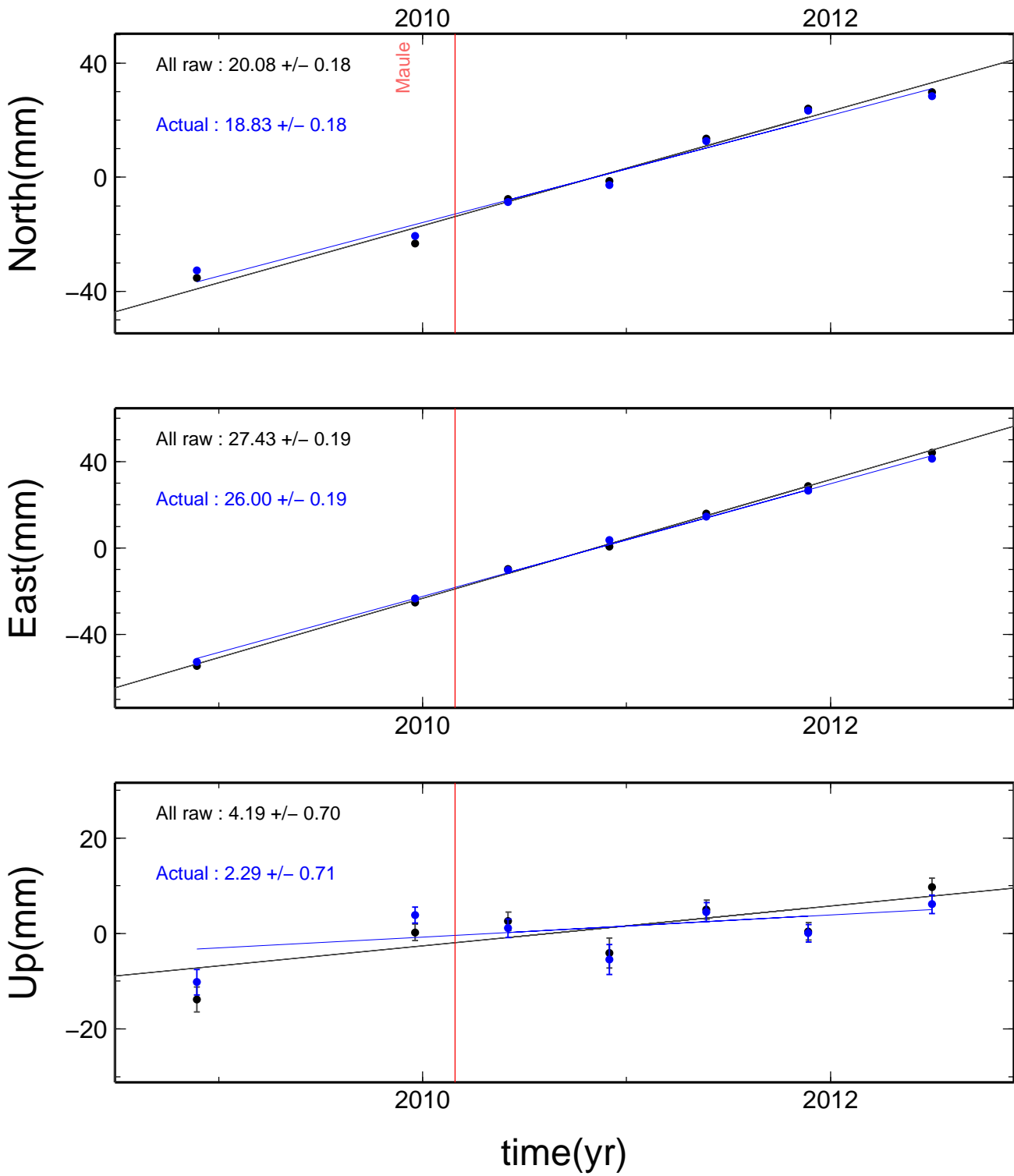
TOTO



TRAP



VALL



VARI

