

1) PRESENTACIÓN

Nombre del Centro de Procesamiento: Centro de Procesamiento SIRGAS – IBGE

Persona responsable: Marco Aurélio de Almeida Lima (marco.almeida@ibge.gov.br)

Equipo de trabajo:

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Fecha de inicio de actividades:

El Centro de Procesamiento SIRGAS – IBGE, a pesar de haber iniciado oficialmente sus actividades en 31 de agosto 2008, tiene resultados del procesamiento de los datos GNSS desde enero de 2003 (semana GPS 1199).

Tareas realizadas:

Procesamiento semanal de la red de densificación central y una selección de estaciones de la red sur (fig. 1). Generación de soluciones semanales semilibres (loosely constrained).

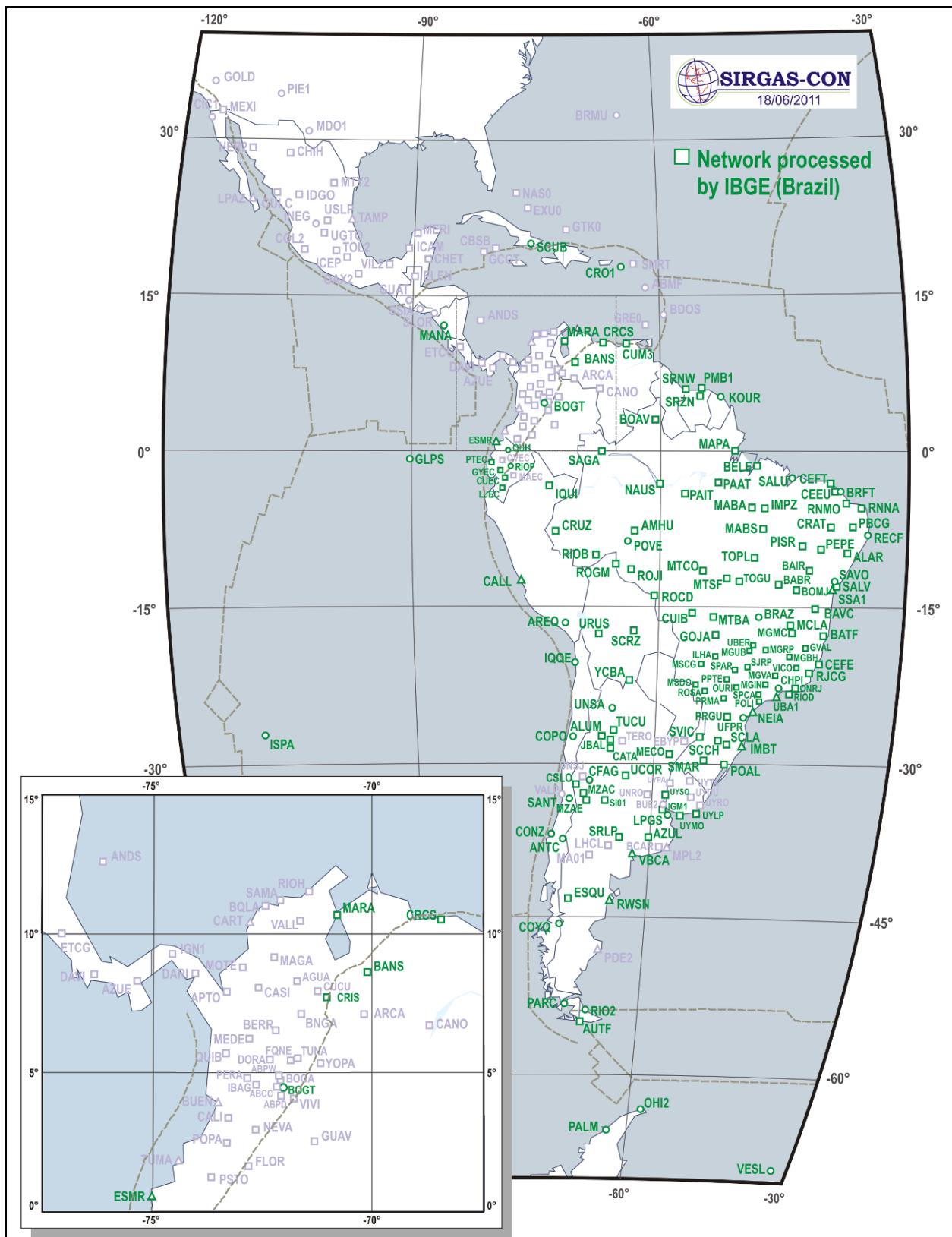


Fig 1: Estaciones procesadas por IBGE

2) RED SIRGAS-CON-D CENTRAL Y LA PARTE SUR

- DISPONIBILIDAD DE DATOS DE LAS ESTACIONES: el anexo 2 se presenta la situación de las estaciones en las últimas 50 semanas (1592 a 1641), es decir, la cantidad de datos utilizados en el procesamiento.

- DIRECCIÓN DE FTP PARA DESCARGAR LOS DATOS: para descargar los datos de las estaciones SIRGAS-CON, utilice las siguientes direcciones FTP:

Tabela 1 – Dirección FTP

Local	FTP
CORS	cors.ngs.noaa.gov
SOPAC	garner.ucsd.edu
EQUADOR	186.42.173.82
CDDIS	cddis.gsfc.nasa.gov
RAMSAC	ramsac.igm.gov.ar
RBMC	geoftp.ibge.gov.br
REMODS	200.44.126.166
URUGUAI	ftp.sgm.gub.uy
DFGI	129.187.165.2
LGFS VENEZUELA	ftp.lgfs.luz.eud.ve

3) PRINCIPALES CARACTERÍSTICAS DE PROCESAMIENTO

Tabela 2 - Principales características de procesamiento

Observações:	Dupla Diferença de fase
Software:	Bernese 5.0 (modo BPE)
Taxa de coleta:	30 segundos
Ângulo de Elevação:	03º
Estratégia de Linha de Base:	OBS-MAX
Órbita/EOP:	final IGS - IGS08 EOP das soluções semanais IGS – IGS08
Modelo de Troposfera <i>a priori</i> :	Niell componente seca
Troposfera local:	O atraso troposférico no zênite é estimado a cada 2 horas. São estimadas 12 correções diárias por estação. As correções dos atrasos zenitais utilizando a função de mapeamento Niell (componente úmida).
Ambigüidades:	Estratégia QIF com Modelos Globais da Ionosfera - GIM disponibilizados pelo Centro de Determinação de Órbita da Europa - CODE
Modelo de Carga Oceânica:	FES2004
Variação de Centro de Fase:	Absoluto (IGS_08)
Coordenadas e Velocidades:	IGS08_R
Soluções Diárias:	Todas estações são injuncionadas em $\sigma = \pm 1\text{m}$ Arquivos de saída: SINEX Mapas Troposféricos
Soluções Semanais:	Todas estações são injuncionadas em $\sigma = \pm 1\text{m}$ Arquivos de saída: SINEX

4) INTERNET Y FTP SIRGAS-IBGE

Los resultados, informes y gráficos do Centro de Procesamiento SIRGAS – IBGE están disponibles en la Internet (http://www.ibge.gov.br/home/geociencias/geodesia/centros_apres.shtml) y en FTP (<ftp://geoftp.ibge.gov.br/SIRGAS>).



Fig 2: Sitio de acceso a los resultados

5) Análisis de la Puntualidad en la carga al servidor del DGFI.

Tabela 3 – Puntualidad en el envío

Semanas	Situación	<i>Fecha de envío</i>	Semanas	Situación	<i>Fecha de envío</i>
1592	tarde	11 - ago - 2010	1617	puntuales	25 - jan - 2011
1593	tarde	16 - ago - 2010	1618	puntuales	02 - fev - 2011
1594	puntuales	20 - ago - 2010	1619	puntuales	08 - fev - 2011
1595	puntuales	27 - ago - 2010	1620	puntuales	17 - fev - 2011
1596	puntuales	02 - set - 2010	1621	puntuales	22 - fev - 2011
1597	puntuales	10 - set - 2010	1622	puntuales	03 - mar - 2011
1598	tarde	21 - set - 2010	1623	tarde	14 - mar - 2011
1599	tarde	27 - set - 2010	1624	puntuales	17 - mar - 2011
1600	puntuales	30 - set - 2010	1625	puntuales	25 - mar - 2011
1601	puntuales	07 - out - 2010	1626	puntuales	31 - mar - 2011
1602	tarde	22 - out - 2010	1627	puntuales	05 - abr - 2011
1603	tarde	25 - out - 2010	1628	puntuales	14 - abr - 2011
1604	puntuales	29 - out - 2010	1629	tarde	27 - abr - 2011
1605	puntuales	04 - nov - 2010	1630	tarde	03 - mai - 2011
1606	puntuales	11 - nov - 2010	1631	puntuales	06 - mai - 2011
1607	tarde	26 - nov - 2010	1632	puntuales	12 - mai - 2011
1608	tarde	30 - nov - 2010	1633	puntuales	20 - mai - 2011
1609	puntuales	02 - dez - 2010	1634	puntuales	26 - mai - 2011
1610	puntuales	07 - dez - 2010	1635	puntuales	01 - jun - 2011
1611	puntuales	16 - dez - 2010	1636	puntuales	07 - jun - 2011
1612	puntuales	23 - dez - 2010	1637	puntuales	14 - jun - 2011
1613	+ tarde	14 - jan - 2011	1638	tarde	28 - jun - 2011
1614	tarde	14 - jan - 2011	1639	puntuales	01 - jul - 2011
1615	puntuales	14 - jan - 2011	1640	tarde	13 - jul - 2011
1616	puntuales	19 - jan - 2011	1641	puntuales	15 - jul - 2011

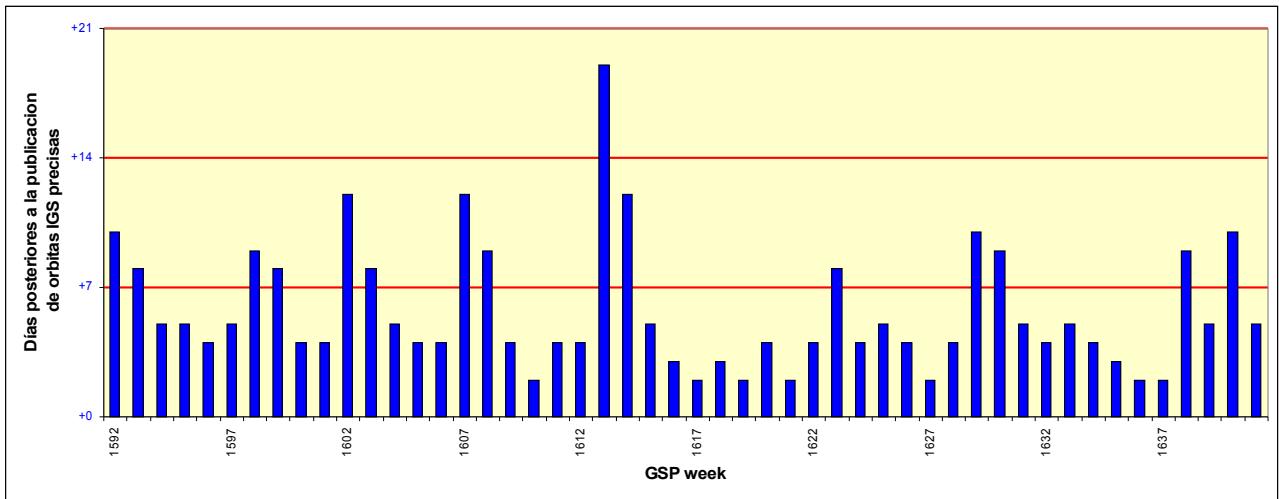


Fig. 3 Demora en la carga de soluciones semanales cuasi libres al servidor del DGFI.

6) Resultados obtenidos por el IBGE.

Resultados fueron alcanzados por el programa ADDNEQ2. Los archivos de entrada utilizados fueron las ecuaciones normales generados por GPSEST.

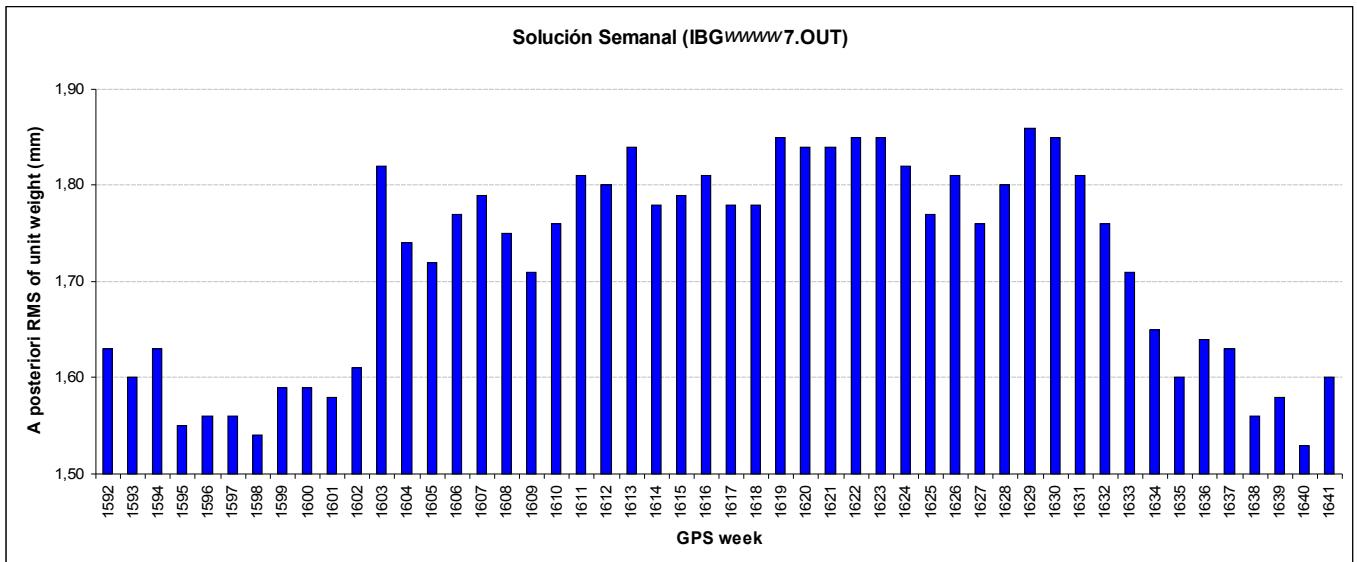


Fig. 4 Resultados finales alcanzados por el programa ADDNEQ2.

7) Comparación entre las soluciones

I – Resultados obtenidos por la transformación Helmert entre los archivos de coordenadas (IBGE vs CIMA, IGS e SIRGAS) **sin traslaciones, rotaciones y/o escala**. De ésta transformación surge un residuo semanal, para cada coordenada (norte, este, up) de cada una de las estaciones.

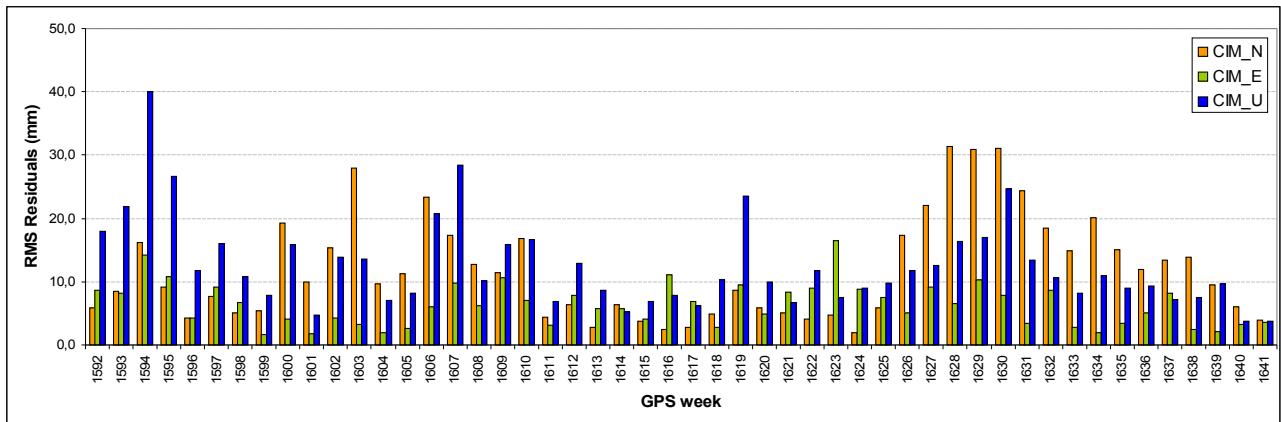


Fig.5 Comparación entre las soluciones cuasi libres de IBGE vs. CIMA.

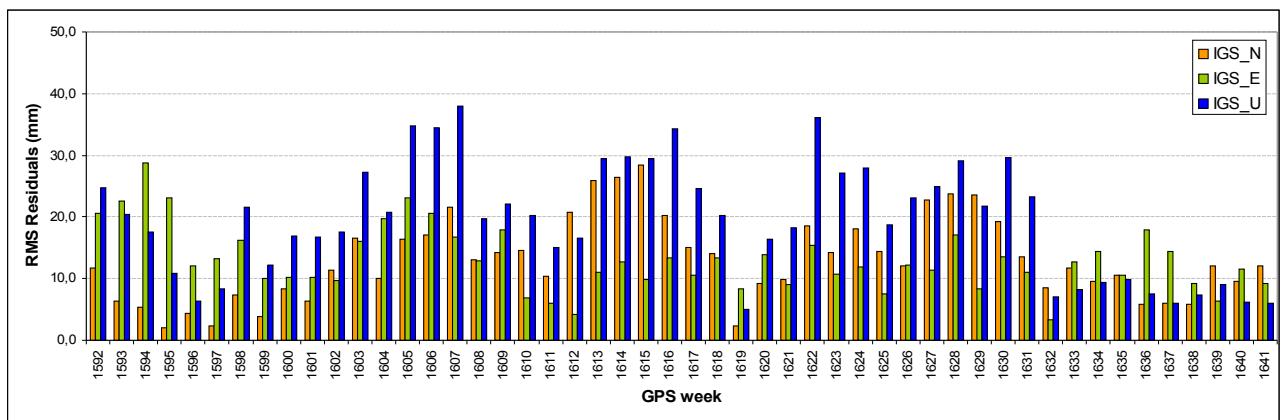


Fig. 6 Comparación entre las soluciones cuasi libres de IBGE vs. IGS.

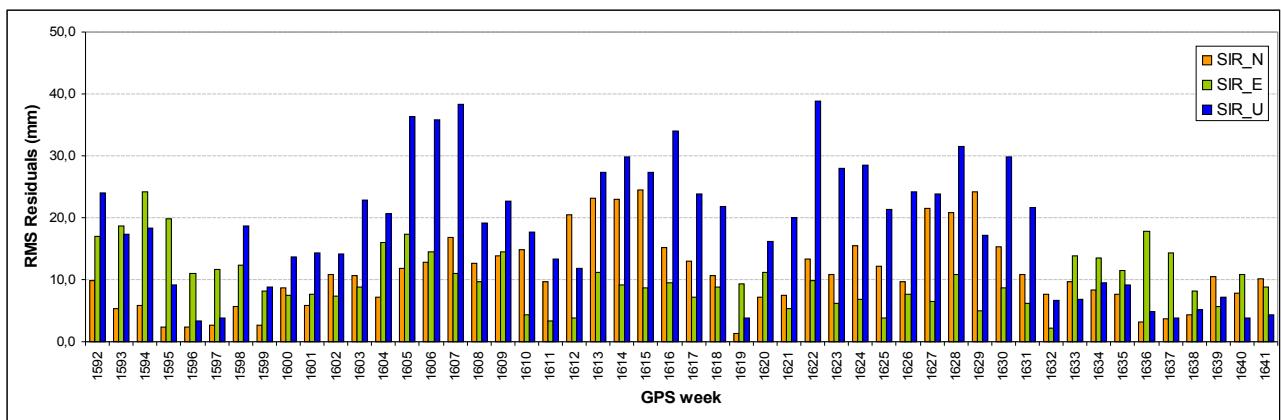


Fig. 7 Comparación entre las soluciones cuasi libres de IBGE vs. SIRGAS.

II – Resultados obtenidos por la transformación Helmert entre los archivos de coordenadas (IBGE vs CIMA, IGS e SIRGAS) **con traslaciones, rotaciones y/o escala**. De ésta transformación surge un residuo semanal, para cada coordenada (norte, este, up) de cada una de las estaciones.

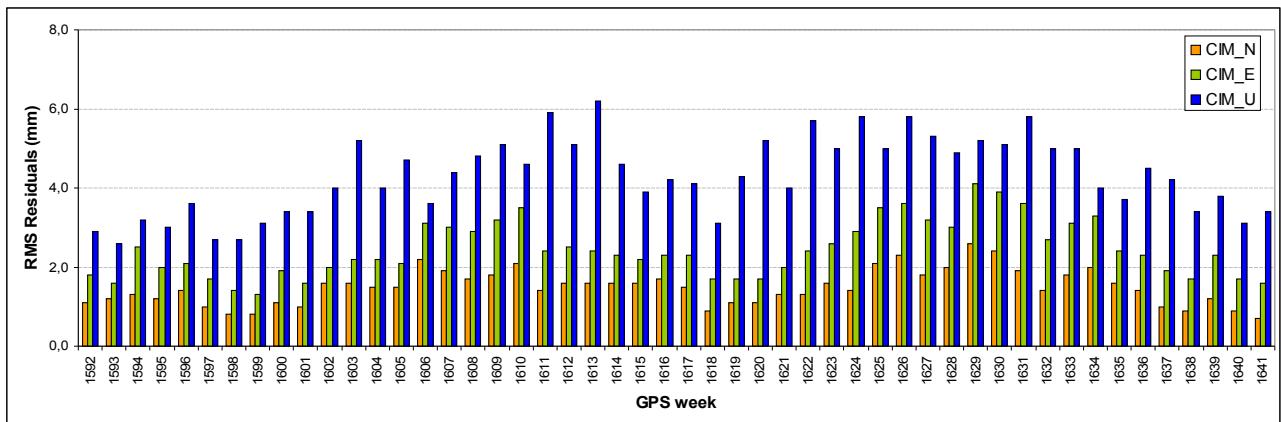


Fig. 8 Comparación entre las soluciones cuasi libres de IBGE vs. CIMA.

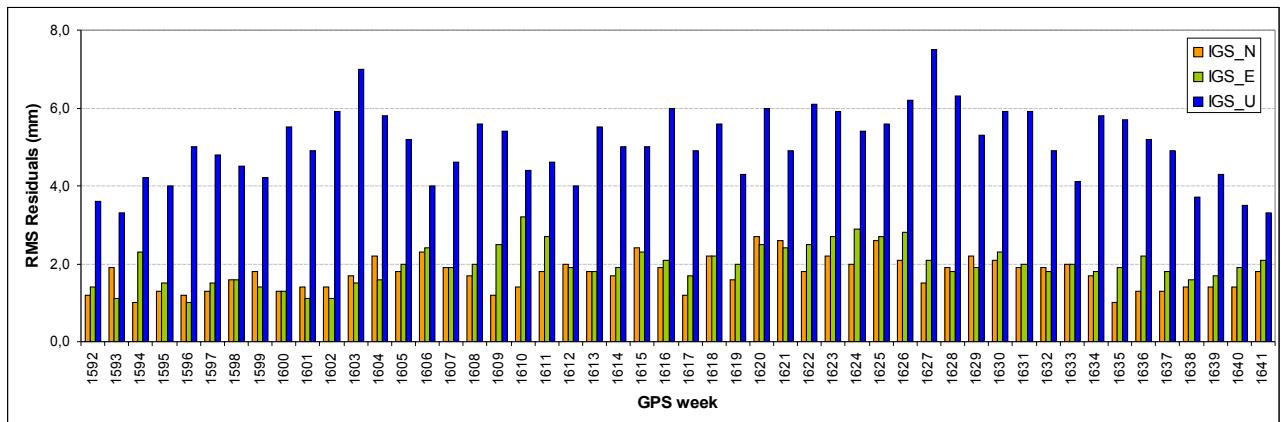


Fig. 9 Comparación entre las soluciones cuasi libres de IBGE vs. IGS.

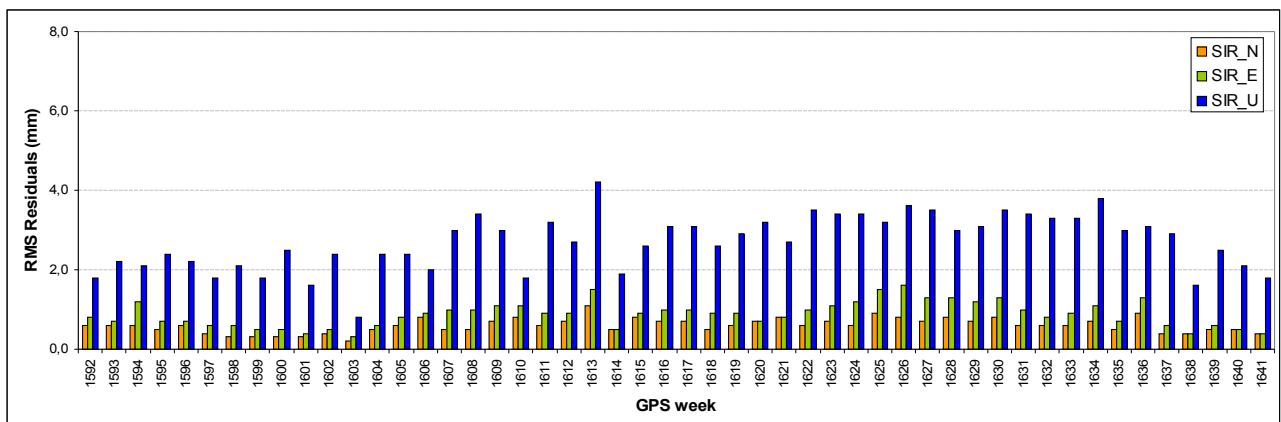


Fig. 10 Comparación entre las soluciones cuasi libres de IBGE vs. SIRGAS.

ANEXO 1 – DESCRIPCIÓN DE LAS ESTACIONES SIRGAS

EST	DOMES NUMBER	Receptor	Antena		Altura (m)	Ciudad	País
ALAR	41653M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0010	Arapiraca	Brasil
ALUM	41535M001	TRIMBLE NETR5	TRM55971.00	TZGD	0.0000	Mina Alumbrera	Argentina
AMHU	41646M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0080	Humaitá	Brasil
ANTC	41713S001	TRIMBLE NETRS	ASH700936D_M	SNOW	0.0000	Los Angeles	Chile
AREQ	42202M005	ASHTECH UZ-12	AOAD/M_T	JPLA	0.0610	Arequipa	Peru
AUTF	41515S001	TRIMBLE NETRS	ASH700936D_M	SNOW	0.0000	Ushuaia	Argentina
AZUL	41529M001	TRIMBLE NETR5	TRM55971.00	TZGD	0.0000	Azul	Argentina
BABR	41684M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0090	Barreiras	Brazil
BAIR	41665M001	TRIMBLE NETRS	TRM41249.00	NONE	0.0080	Irece	Brazil
BANS	42403M001	TRIMBLE 5700	TRM29659.00	NONE	0.0000	Barinas	Venezuela
BATF	41666M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0100	Teixeira De Freitas	Brazil
BAVC	41669M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0080	Vitória Da Conquista	Brasil
BELE	41622M001	TRIMBLE NETRS	TRM41249.00	NONE	0.0080	Belém	Brasil
BOAV	41636M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0080	Boa Vista	Brasil
BOGT	41901M001	ASHTECH UZ-12	ASH701945E_M	NONE	0.0610	Bogotá	Colombia
BOMJ	41612M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0080	Bom Jesus Da Lapa	Brasil
BRAZ	41606M001	TRIMBLE NETRS	TRM41249.00	NONE	0.0080	Brasilia	Brazil
BRFT	41602M002	LEICA GRX1200PRO	LEIAT504	NONE	0.0083	Eusebio	Brazil
CALL	42205M001	LEICA GRX1200GGPRO	LEIAT504GG	LEIS	0.1100	El Callao	Peru
CATA	41534M001	TRIMBLE NETR5	TRM55971.00	TZGD	0.0000	San Fernando Del Valle De Catamarca	Argentina
CEEU	41602M003	LEICA GRX1200+GNSS	LEIAIX1203+GNSS	NONE	0.0020	Euzebio	Brasil
CEFE	41637M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0000	Vitoria	Brasil
CEFT	41682M001	TRIMBLE 4000SSI	TRM29659.00	NONE	0.0080	Fortaleza	Brasil
CFAG	41517S001	TRIMBLE NETRS	ASH700936D_M	NONE	0.0000	Caucete	Argentina
CHPI	41609M003	ASHTECH UZ-12	ASH701945C_M	NONE	0.0792	Cachoeira Paulista	Brazil
CONZ	41719M002	LEICA GRX1200GGPRO	TPSCR3_GGD	CONE	0.0574	Concepcion	Chile
COPO	41714S001	TRIMBLE NETRS	ASH700936D_M	SNOW	0.0000	Copiao	Chile
COYQ	41715S001	TRIMBLE NETRS	ASH700936D_M	SNOW	0.0000	Coyhaique	Chile
CRAT	41619M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0080	Crato	Brasil

CRCS	42401M001	SOK GSR2700 RS	TRM29659.00	NONE	0.0160	Caracas	Venezuela
CRIS	42405M001	SOK GSR2700 RS	NOV533+CR	NOVC	0.1100	San Cristobal	Venezuela
CRO1	43201M001	ASHTECH UZ-12	ASH701945G_M	JPLA	0.0814	Christiansted	U.S. Virgin Islands (Usa)
CRUZ	41641M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0080	Cruzeiro Do Sul	Brasil
CSLO	41540M001	TRIMBLE NETRS	TRM41249.00	NONE	0.0000		Argentina
CUEC	42009M001	LEICA GRX1200GGPRO	LEIAT504GG	NONE	0.0080	Cuenca	Ecuador
CUIB	41603M001	TRIMBLE NETRS	TRM41249.00	NONE	0.0080	Cuiaba	Brasil
CUM3	42404M001	SOK GSR2700 RS	NOV533+CR	NOVC	0.1440	Cumana	Venezuela
ESMR	42011M001	TRIMBLE NETRS	TRM41249.00	NONE	11.840	Esmeraldas	Ecuador
ESQU	41533M001	ASHTECH Z-XII3	TRM41249.00	NONE	0.0000	Esquel	Argentina
GLPS	42005M002	ASHTECH UZ-12	ASH701945B_M	SCIT	0.0083	Puerto Ayora	Ecuador
GOJA	41654M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0000	Jataí	Brasil
GVAL	41623M001	ASHTECH UZ-12	ASH700700.B	NONE	0.0500	Governador Valadares	Brasil
GYEC	42007M001	LEICA GRX1200GGPRO	LEIAT504GG	NONE	0.0080	Guayaquil	Ecuador
IGM1	41505M003	TRIMBLE NETRS	ASH700936D_M	SNOW	0.0000	Buenos Aires	Argentina
ILHA	41634M001	LEICA GRX1200GGPRO	LEIAIX1202GG	NONE	0.0080	Ilha Solteira	Brazil
IMBT	41638M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0080	Imbituba	Brasil
IMPZ	41615M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0080	Imperatriz	Brasil
IQQE	41708S002	TRIMBLE NETRS	ASH700936D_M	SNOW	0.0000	Iquique	Chile
IQUI	42204M001	LEICA GRX1200GGPRO	LEIAT504GG	LEIS	0.0000	Iquitos	Peru
ISPA	41703M007	ASHTECH UZ-12	ASH701945E_M	SCIT	0.0083	Easter Island	Chile
JBAL	41537M001	TRIMBLE NETRS	TRM41249.00	TZGD	0.0000	Juan Bautista Alberdi	Argentina
KOUR	97301M210	JPS LEGACY	ASH701946.3	NONE	0.0450	Kourou	French Guyana
LJEC	42010M001	LEICA GRX1200GGPRO	LEIAT504GG	NONE	0.0080	Loja	Ecuador
LPGS	41510M001	AOA BENCHMARK ACT	AOAD/M_T	NONE	0.0460	La Plata	Argentina
MABA	41642M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0080	Maraba	Brasil
MABS	41681M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0080	Balsas	Brazil
MANA	41201S001	TRIMBLE 4000SSI	TRM29659.00	UNAV	0.0000	Cumana	Nicaragua
MAPA	41629M001	TRIMBLE NETRS	TRM29659.00	NONE	0.0880	Macapá	Brasil
MARA	42402M001	SOK GSR2700 RS	NOV533+CR	NOVC	0.0780	Maracaibo	Venezuela
MECO	41526M001	TRIMBLE NETRS	TRM41249.00	TZGD	0.5350	Mercedes	Argentina
MGBH	41667M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0060	Belo Horizonte	Brazil

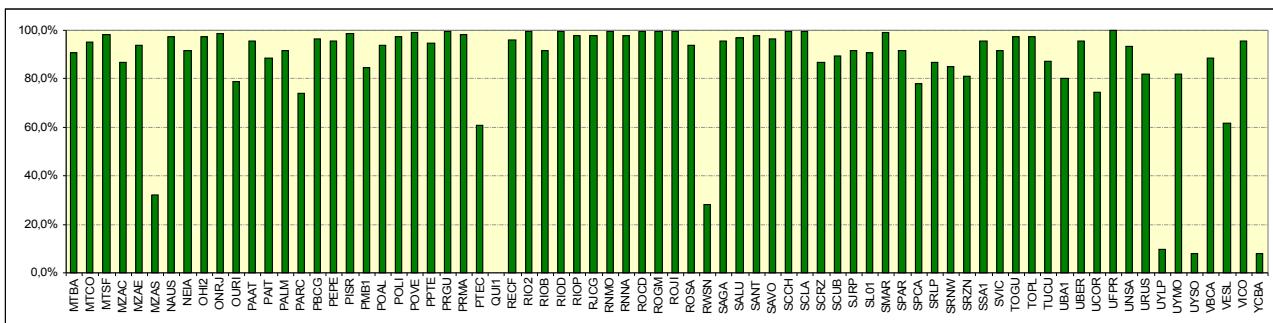
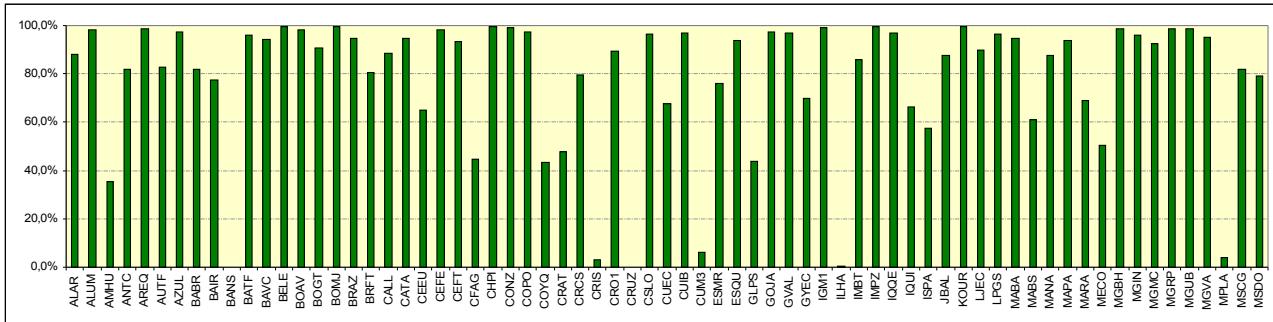
MGIN	41647M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0000	Inconfidentes	Brasil
MGMC	41624M002	TRIMBLE NETR5	TRM55971.00	NONE	0.0000	Montes Claros	Brasil
MGRP	41680M001	TRIMBLE NETRS	TRM41249.00	NONE	0.0080	Rio Paranaiba	Brazil
MGUB	41652M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0080	Uberlândia	Brasil
MGVA	41626M002	ASHTECH UZ-12	ASH700700.B	NONE	0.1090	Varginha	Brazil
MPLA	41521M001	LEICA MC1000	LEIAT504	LEIS	0.0000	Mar Del Plata	Argentina
MSCG	41649M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0000	Campo Grande	Brasil
MSDO	41672M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0000	Dourados	Brasil
MTBA	41663M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0000	Barra Do Garças	Brazil
MTCO	41670M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0080	Colider	Brasil
MTSF	41655M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0000	São Felix Do Araguaia	Brazil
MZAC	41503M001	ASHTECH Z-XII3	ASH701933C_M	SNOW	0.0000	Mendoza	Argentina
MZAE	41530M001	TRIMBLE NETRS	TRM29659.00	UNAV	0.0000	Santa Rosa	Argentina
MZAS	41528M001	TRIMBLE NETRS	TRM29659.00	UNAV	0.0000	San Rafael	Argentina
NAUS	41614M002	TRIMBLE NETRS	TRM41249.00	NONE	0.0080	Manaus	Brasil
NEIA	41620M002	TRIMBLE NETR8	TRM59800.00	NONE	0.1003	Cananeia	Brasil
OHI2	66008M005	JPS E_GGD	TPSCR.G3	TPSH	0.0375	O'higgins	Antarctic Peninsula
ONRJ	41635M001	LEICA GRX1200+GNSS	LEIAIX1203+GNSS	NONE	0.0080	Rio De Janeiro	Brazil
OURI	41631M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0080	Ourinhos	Brazil
PAAT	41683M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0080	Altamira	Brazil
PAIT	41685M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0080	Itaituba	Brazil
PALM	66005M002	ASHTECH UZ-12	ASH700936D_M	SCIS	0.0794	Palmer Station	Antarctica
PARC	41716S001	TRIMBLE NETR8	TRM57971.00	NONE	0.0000	Punta Arenas	Chile
PBCG	41656M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0080	Campina Grande	Brazil
PEPE	41650M001	TRIMBLE NETRS	TRM41249.00	NONE	0.0080	Petrolina	Brasil
PISR	41673M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0080	São Raimundo Nonato	Brasil
PMB1	43702S001	TRIMBLE NETRS	TRM55971.00	NONE	0.0000	Paramaribo	Suriname
POAL	41616M001	TRIMBLE NETRS	TRM29659.00	NONE	0.0075	Porto Alegre	Brasil
POLI	41630M001	LEICA GRX1200 PRO	LEIAIX1202	NONE	0.0500	Sao Paulo	Brazil
POVE	41628M001	TRIMBLE NETR5	TRM29659.00	NONE	0.0075	Porto Velho	Brasil
PPTE	41611M002	TRIMBLE NETR8	TRM59800.00	NONE	0.0020	Presidente Prudente	Brasil
PRGU	41671M001	TRIMBLE NETRS	TRM41249.00	NONE	0.0080	Guarapuava	Brasil

PRMA	41674M001	TRIMBLE NETRS	TRM41249.00	NONE	0.0080	Maringá;	Brasil
PTEC	42008M001	TRIMBLE NETR9	TRM59800.00	NONE	0.0100	Portoviejo	Ecuador
QUI1	42003S003	ASHTECH Z-XII3	ASH700936B_M	SNOW	0.0000	Quito	Ecuador
RECF	41617M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0710	Recife	Brasil
RIO2	41507M006	ASHTECH Z-XII3	ASH700936C_M	SNOW	0.0350	Rio Grande	Argentina
RIOB	41645M001	TRIMBLE NETRS	TRM41249.00	NONE	0.0080	Rio Branco	Brasil
RIOD	41608M001	TRIMBLE NETRS	TRM41249.00	NONE	0.0080	Rio De Janeiro	Brasil
RIOP	42006M001	TRIMBLE NETRS	TRM41249.00	NONE	0.0729	Riobamba	Ecuador
RJCG	41657M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0000	Campos Dos Goytacazes	Brazil
RNMO	41664M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0080	Mossoro	Brazil
RNNA	41668M001	TRIMBLE NETRS	TRM41249.00	NONE	0.0080	Natal	Brazil
ROCD	41679M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0080	Colorado Dá' Oeste	Brasil
ROGM	41651M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0080	Guajará-Mirim	Brasil
ROJI	41658M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0080	Ji-Paraná	Brazil
ROSA	41632M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0080	Rosana	Brazil
RWSN	41513M001	ASHTECH UZ-12	ASH700936D_M	NONE	0.0000	Rawson	Argentina
SAGA	41639M001	TRIMBLE NETRS	TRM41249.00	NONE	0.0100	São Gabriel Da Cachoeira	Brazil
SALU	41640M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0080	São Luis	Brasil
SANT	41705M003	ASHTECH UZ-12	AOAD/M_T	JPLA	0.0614	Santa Fe	Chile
SAVO	41643M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0010	Salvador	Brasil
SCCH	41659M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0000	Chapecó	Brasil
SCLA	41660M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0000	Lages	Brazil
SCRZ	41801M001	TRIMBLE NETRS	TRM41249.00	NONE	0.0000	Santa Cruz De La Sierra	Bolivia
SCUB	40701M001	ASHTECH Z-XII3	ASH700936C_M	SNOW	0.0460	Santiago De Cuba	Cuba
SJRP	41633M001	TRIMBLE NETRS	TRM41249.00	NONE	0.0080	Sao Jose Do Rio Preto	Brazil
SL01	41543M001	TRIMBLE NETR5	TRM57971.00	TZGD	0.0000	La Punta	Argentina
SMAR	41621M001	TRIMBLE NETRS	TRM41249.00	NONE	0.0080	Santa Maria	Brasil
SPAR	41676M001	TRIMBLE NETR8	TRM59800.00	NONE	0.0080	Araçatuba	Brazil
SPCA	41678M001	TRIMBLE NETR8	TRM59800.00	NONE	0.0000	Campinas	Brazil
SRLP	41532M001	NOV MILLEN-STD	AERAT2775_43	NONE	0.0000	Santa Rosa	Argentina
SRNW	43703M001	TRIMBLE NETRS	TRM41249.00	NONE	0.0000	Nw Nickerie	Suriname
SRZN	43701S005	TRIMBLE NETRS	TRM41249.00	NONE	0.0000	Zanderij	Suriname

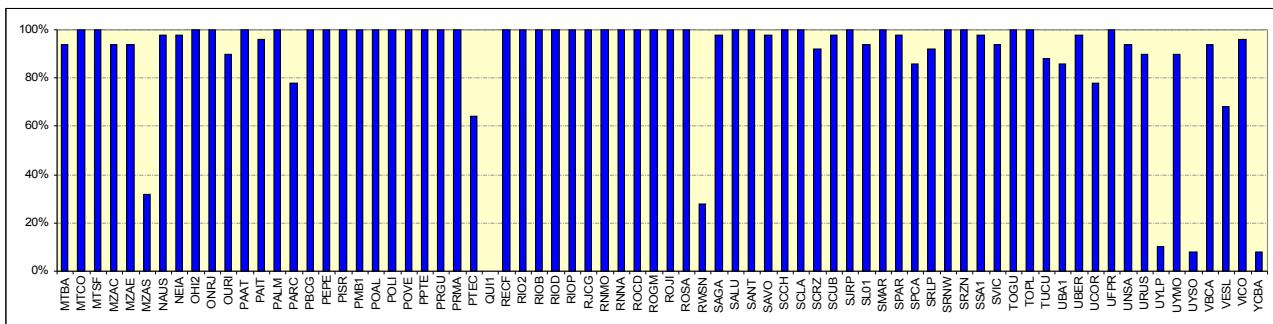
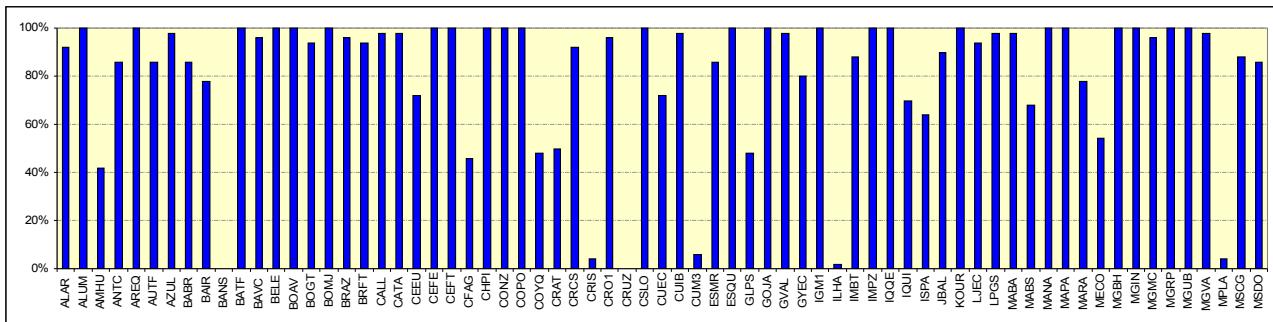
SSA1	41644M001	TRIMBLE 4000SSI	TRM29659.00	NONE	0.0000	Salvador	Brasil
SVIC	41536M001	ASHTECH Z-XII3	TRM41249.00	NONE	0.0000	San Vicente	Argentina
TOGU	41661M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0080	Gurupi	Brazil
TOPL	41648M001	TRIMBLE NETRS	TRM41249.00	NONE	0.0080	Palmas	Brasil
TUCU	41520S001	TRIMBLE NETRS	ASH700936C_M	SNOW	0.0000	Tucuman	Argentina
UBA1	41627M002	TRIMBLE NETR8	TRM59800.00	NONE	0.0000	Ubatuba	Brazil
UBER	41625M001	ASHTECH UZ-12	ASH700700.B	NONE	0.0400	Uberlândia	Brasil
UCOR	41502M001	SOKKIA GSR2700 RSX	NOV702GG	NONE	0.0000	Córdoba	Argentina
UFPR	41610M002	TRIMBLE NETR5	TRM55971.00	NONE	0.1000	Curitiba	Brasil
UNSA	41514M001	SEPT POLARX2	TPSCR3_GGD	NONE	0.1300	Salta	Argentina
URUS	41802M001	LEICA GRX1200+GNSS	LEIAT504GG	LEIS	0.0000	Oruro	Bolivia
UYMO	42301M001	LEICA GRX1200PRO	LEIAT504GG	LEIS	0.0000	Montevideo	Uruguay
UYLP	42306M001	LEICA GRX1200+GNSS	LEIAX1203+GNSS	NONE	0.0000	La Paloma	Uruguay
UYSO	42307M001	TRIMBLE NETR8	TRM55971.00	NONE	0.0000	Mercedes	Uruguay
VBCA	41512M001	LEICA SR9500	LEIAT303	NONE	10.707	Bahia Blanca	Argentina
VESL	66009M001	TPS GB-1000	TRM29659.00	TCWD	-0.0112	Vesleskarvet	Antarctica
VICO	41613M001	TRIMBLE NETR5	TRM55971.00	NONE	0.0080	Viçosa	Brasil
YCBA	41803M001	LEICA GRX1200+GNSS	LEIAT504GG	LEIS	0.0000	Yacuiba	Bolivia

ANEXO 2 – DISPONIBILIDAD DE DATOS DE LAS ESTACIONES SIRGAS-CON

Presença por dia (100% = 350 dias):



Presença por semana (100% = 50 semanas):



	1592	1593	1594	1595	1596	1597	1598	1599	1600	1601	1602	1603	1604	1605	1606	1607	1608	1609	1610	1611	1612	1613	1614	1615	1616	
ALAR	7	7	7	4			5	6	7	7	7	6	6	7	6	5	7	7	7	6	7	7	7	7	7	
ALUM	7	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
AMHU																						5	7	3	2	
ANTC	6								7	7	7	7	6	7	7	3	7	7	6	7	7	7	7	7	7	
AREQ	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	
AUTF	7	7	7	7	7	7			6	7	7	7	7	6					3		2	7	7	7	7	7
AZUL	7	7	7	7	7	7			7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
BABR	7	7	7	7	7	7	7	7	7	5	3	7	7	6	6	7	7	7	7	7	7	7	7	7	7	
BAIR	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6								
BANS																										
BATF	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	
BAVC	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
BELE	7	7	7	7	7	7	7	6	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
BOAV	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	4	7	7	
BOGT																										
BOMJ	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
BRAZ	7	7																						3	7	7
BRFT																										
CALL	7	7	6	7	7	7	7	5	5	7	7	7	6	4	7	7	7	7	7	7	7	7	7	6	7	
CATA	7	7	7	7	7	7	6	6	5	7	7	7	7	7	7	7	7	7	7	7	7	7	6	5	6	
CEEU	3		6	7	7	7	5	3	7	7	7	7	7	7	7	6	6									
CEFE	7	7	7	7	7	7	7	7	7	7	7	7	7	5	7	7	7	7	7	7	7	7	7	7	7	
CEFT	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	4	7	7	7	7	7	6	7	7	
CFAG	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	2		
CHPI	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	
CONZ	7	7	7	7	7	7	7	7	7	7	7	7	6	6	7	7	7	7	7	7	7	6	7	7	7	
COPO	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	
COYQ																			2		4	7	7	7	7	
CRAT	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	5	6	7	3	
CRCS	7	7	6				4	7	3	5	6	7	7	6	7	7	6	5	6	5	3	7		7	6	
CRIS								5																		
CRO1	7	3	6	3	4		6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
CRUZ																										
CSLO	7	6	7	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	
CUEC	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	6	7	6	5	1				
CUIB	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
CUM3	7						7																			
ESMR	6	7	6	7	7	7		7	7	6	7	3	3	5	6	7	7	7	5	7	7	7	7	7	6	
ESQU	5	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	5	4	6	5	7	

	1617	1618	1619	1620	1621	1622	1623	1624	1625	1626	1627	1628	1629	1630	1631	1632	1633	1634	1635	1636	1637	1638	1639	1640	1641	TOT	350	50	
ALAR	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	308	88,0%	92%	
ALUM	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	344	98,3%	100%	
AMHU	2	7	7	7	7	6	7	7	7	7	7	6	6	7	7	7	3									124	35,4%	42%	
ANTC	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	3	7	6	7	6	7	287	82,0%	86%	
AREQ	7	7	7	7	7	7	6	6	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	346	98,9%	100%	
AUTF	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	290	82,9%	86%	
AZUL	6	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	341	97,4%	98%	
BABR	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	2									287	82,0%	86%	
BAIR																									271	77,4%	78%		
BANS																									0	0,0%	0%		
BATF	6	5	4	7	7	7	7	7	7	7	7	7	7	7	7	5	6	7	5	7	6	6	7	7	7	336	96,0%	100%	
BAVC	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	4		5	330	94,3%	96%	
BELE	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	348	99,4%	100%	
BOAV	7	7	7	7	7	6	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	344	98,3%	100%	
BOGT	7	7	7	6	7	7	7	6	6	5	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	318	90,9%	94%	
BOMJ	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	348	99,4%	100%	
BRAZ	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	332	94,9%	96%	
BRFT	3	3	5	1	5	7	6	7	7	7	5	3	7	6	7	7	7	7	7	7	7	7	2	2	7	282	80,6%	94%	
CALL	7	7	7	7	3	5	7	7	3	5	2	7	7	7	7	7	7	7	7	7	7	7	3	7	4	310	88,6%	98%	
CATA	7	7	7	7	7	7	7	7	7	7	6	7	6	7	7	7	7	7	7	7	6	7	7	7	7	332	94,9%	98%	
CEEU	7	7	7	7	7	7	7	7	7	7	5	7	7	6	6	7	4				3	7	7	6	7	227	64,9%	72%	
CEFE	7	7	7	5	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	344	98,3%	100%	
CEFT	7	7	7	7	7	4	5	5	7	7	7	7	7	7	7	7	7	7	6	3	5	7	7	3	6	326	93,1%	100%	
CFAG																									156	44,6%	46%		
CHPI	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	349	99,7%	100%	
CONZ	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	347	99,1%	100%	
COPO	7	7	7	6	7	7	7	7	7	7	7	6	7	7	7	6	5	7	5	7	7	7	7	7	7	341	97,4%	100%	
COYQ	7	7	4	7	7	5							3	7	7	7	7	7	7	7	7	7	7	7	7	7	151	43,1%	48%
CRAT																									167	47,7%	50%		
CRCS	5	5	7	6	7	7	7	7	6	7	2	7	7	7	2	7	7	7	7	7	7	6	6	5	5	279	79,7%	92%	
CRIS																									6	11	3,1%	4%	
CRO1	7	7	7	7	7	7	7	5	7	7	7	6	6	6	7	6	6	5	7	6	7	7	7	7	7	313	89,4%	96%	
CRUZ																									0	0,0%	0%		
CSLO	7	7	7	6	7	7	5	7	7	6	7	7	4	7	7	6	7	7	7	7	7	7	7	7	7	338	96,6%	100%	
CUEC													4	7	7	7	7	6	7	7	7	7	7	7	7	237	67,7%	72%	
CUIB	6	7	7		7	7	7	6	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	339	96,9%	98%	
CUM3																									7	21	6,0%	6%	
ESMR	6	7	7	7	7	7	7	6	4	7	6	7	6	7	6	6	2	6	7	5	7				267	76,3%	86%		
ESQU	7	7	6	7	7	7	7	7	7	7	7	5	5	7	7	6	7	7	6	4	7	7	7	7	6	328	93,7%	100%	

	1592	1593	1594	1595	1596	1597	1598	1599	1600	1601	1602	1603	1604	1605	1606	1607	1608	1609	1610	1611	1612	1613	1614	1615	1616	
GLPS	7	7	7	7	7	7	7	7	7	7	7	7	4	5	7	7	7	7	5	7	7	7	5	2		
GOJA	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	
GVAL	7	7	7	7	7	7	7	7	7	7	7	7	7	5	7	7	7	7	7	7	7	7	7	7	7	
GYEC	7	7	7	7	7	7	7	3	4	7	7	7	7	6	5	7	7	7	7	7	7	3	2	5	7	5
IGM1	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6	7	7
ILHA																										
IMBT	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
IMPZ	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
IQQE	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	5	4	7	6	7	7	7	7	7	7
IQUI	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	1			
ISPA	6	3	5																				1	7	7	7
JBAL	7	7	7	7	7	7	7	7	7	7	7	7	7	7	4	3							5	7	7	7
KOUR	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7
LJEC	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	2	7	7	6
LPGS	7	7	7	7	7	7	7	7	6	7	7	6	7	7	7	7	7	7	5	6	7	7	7	7	7	7
MABA	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	6	6	6	7	7	7	7
MABS	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	5	5	7	7	7	4	7	2			
MANA	6	3	5	3	4	3	6	7	7	7	7	5	6	6	7	7	6	7	7	7	7	7	7	7	7	7
MAPA	7	6	6	7	6	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7
MARA	7	7		7	7		7	7	7	7	7	6	6	7	6	7	7	7	3	5	6	7	7			
MECO																						6	7	7	7	7
MGBH	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	4	7	7	7	7	7	7
MGIN	6	7	6	7	3	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
MGMC	7	6	4	6	7	7	7	7	7	6	6	7	7	7	7	3	7	7	7	7	7	7	7	7	7	7
MGRP	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
MGUB	7	7	7	7	7	7	7	7	7	7	7	7	6	6	7	7	7	7	7	7	7	7	7	7	7	7
MGVA	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7
MPLA			7		7																					
MSCG								5	6	3	7	6	6	7	7	7	7	7	7	7	7	7	7	6	5	5
MSDO								4	6	2	7	7	7	7	7	7	7	7	7	6	7	7	7	7	5	
MTBA	7	7		7		7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7
MTCO	7	4	6	7	7	7	7	7	7	7	7	7	7	7	2	7	4	6	7	7	7	7	7	7	7	7
MTSF	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7
MZAC	7	7	7	7	7	7	7	6	5	6	7	7	7	7	7	7	6	4	5	7	7				7	
MZAE	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7			7	
MZAS	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7				
NAUS	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
NEIA	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	4	7
OHI2	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
ONRJ	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7

	1617	1618	1619	1620	1621	1622	1623	1624	1625	1626	1627	1628	1629	1630	1631	1632	1633	1634	1635	1636	1637	1638	1639	1640	1641	TOT	350	50		
GLPS																											154	44,0%	48%	
GOJA	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	6	7	3	4	7	340	97,1%	100%		
GVAL	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6	7	7	7	7	7	7	339	96,9%	98%		
GYEC	6	5																								244	69,7%	80%		
IGM1	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	347	99,1%	100%		
ILHA															1											1	0,3%	2%		
IMBT	7	7	7	7	7	7	7	7							6	7	7	7	7	7	7	7	7	3		5	301	86,0%	88%	
IMPZ	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	349	99,7%	100%		
IQQE	7	7	7	6	7	7	5	7	7	7	7	7	7	7	7	7	7	7	7	7	5	7	7	7	7	339	96,9%	100%		
IQUI																2	7	7	7	7	7	7	7	7	7	7	7	233	66,6%	70%
ISPA	7	7	7	7	7	7	7	7	5	7	7	7	6	6	6	7	6	7	6	7	6	7	6	6	7	201	57,4%	64%		
JBAL	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	306	87,4%	90%		
KOUR	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	348	99,4%	100%		
LJEC	7	7	7	7	7	7	6	6	4	7	7	7	6	7			6	6	7	7	7	7	7	7	7	315	90,0%	94%		
LPGS	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	337	96,3%	98%		
MABA	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	6	7	7	7	7	6	4	7	332	94,9%	98%			
MABS																6	7	7	7	7	7	7	7	7	2		214	61,1%	68%	
MANA	6	7	6	6	7	7	7	7	5	7	7	5	5	4	6	6	6	6	7	5	6	6	7	7	7	307	87,7%	100%		
MAPA	7	7	7	6	7	7	7	6	6	4	7	6	5	5	4	5	7	7	7	7	7	7	7	7	7	329	94,0%	100%		
MARA	7	7	7	6			6		4	1	7	1					6	7	6	7	7	7	6	5	7	241	68,9%	78%		
MECO	7	7	7	7	7	7	7	7	7	7	7	7	6			2		5	7	7	7	7	4	7	7	177	50,6%	54%		
MGBH	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	346	98,9%	100%		
MGIN	7	7	7	7	7	7	7	7	4	7	3	7	7	7	7	7	7	7	7	7	7	7	7	7	7	336	96,0%	100%		
MGMC	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	323	92,3%	96%		
MGRP	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	5	7	6	7	7	7	7	346	98,9%	100%		
MGUB	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	6	7	345	98,6%	100%		
MGVA	7	7	7	7	7	7	7	6	7	7	7	7	5	6	7	7	7	7	7	7	4	6	6	7	7	333	95,1%	98%		
MPLA																7									14	4,0%	4%			
MSCG	7	7	7	7	7	7	7	6	7	7	6	6	6	7	7	7	7	7	7	7	7	7	4	5	286	81,7%	88%			
MSDO	7	7	7	7	6	2		4	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	4	277	79,1%	86%			
MTBA	7	7	7	7	7	7	7	6	7	7	7	7	6	7	2			6	7	7	7	7	6	5	7	317	90,6%	94%		
MTCO	7	7	7	5	7	7	7	6	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	333	95,1%	100%		
MTSF	7	7	7	7	7	6	7	6	7	7	7	7	6	7	7	7	6	7	7	7	7	7	7	7	7	344	98,3%	100%		
MZAC	7	7	5	6	6	5	6	7	7	5	4	6	6	6	7	7	7	7	7	7	7	7	7	7	7	304	86,9%	94%		
MZAE	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	329	94,0%	94%		
MZAS															7										112	32,0%	32%			
NAUS	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	341	97,4%	98%		
NEIA	7	7	7	7	7	7	3		2	7	7	7	7	7	3	6	6	7	7	3	7	7	7	7	7	320	91,4%	98%		
OHI2	7	7	7	7	7	7	7	6	7	7	6	6	6	6	7	6	7	6	7	4	7	7	7	7	7	340	97,1%	100%		
ONRJ	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	5	7	7	7	7	7	7	7	346	98,9%	100%		

	1592	1593	1594	1595	1596	1597	1598	1599	1600	1601	1602	1603	1604	1605	1606	1607	1608	1609	1610	1611	1612	1613	1614	1615	1616
OURI	7	7	7	7	7	7	7	7	7	7	4	5	7	7	7	7	7	7	7	7	7	7	5	7	7
PAAT	7	7	7	6	7	7	7	7	5	5	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
PAIT	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	5	1	5	7	7	7	5
PALM	6	2	5	3	4	3	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
PARC	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	5	7	7	7	7	7	7
PBCG	7	4	6	7	7	7	6	7	7	7	4	3	6	7	7	7	7	7	7	7	7	7	7	7	7
PEPE	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	5	4	6	7	7	7	7
PISR	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7
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POLI	4	7	7	7	7	7	7	7	7	7	7	7	7	7	5	7	7	7	7	7	7	7	6	7	7
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PRGU	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7
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PTEC	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	5	7	7	7	7	7	7
QUI1																									
RECF	7	7	7	7	7	7	7	7	7	6	7	6	7	7	7	7	7	7	7	7	7	7	7	4	5
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RIOD	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
RIOP	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
RJCG	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
RNMO	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
RNNA	7	7	7	7	7	7	6	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7
ROCD	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
ROGM	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
ROJI	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
ROSA	6	7	7	6	7	7	7	7	7	7	7	7	7	6	7	7	6	7	7	7	7	7	7	4	7
RWSN																									
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SANT	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
SAVO	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	4	7	7	7	7	7
SCCH	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
SCLA	7	7	7	7	7	7	7	6	5	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
SCRZ	7	7	7	7	7	7	6	5	6	5	7	7	7	7	7	7	7	7	7	7	7	6	6	7	7
SCUB	6	3	6	3	4	5	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	5	7	7
SJRP	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	4	7	7	7
SL01	7	7	7	7	7	7	7	6	7	7	7	7	7	7	6	6	7	7	6	7	7	7	7	7	7

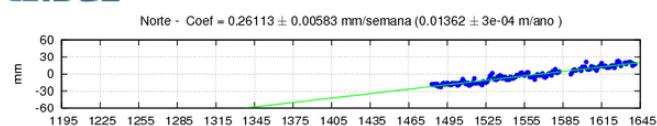
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OURI	2	7	7	5	2	7	7	6	7	7	7	7	7	2	2	6	7	7	5	2	7	7	7	7	6	276	78,9%	90%	
PAAT	7	7	7	7	7	7	7	7	6	4	7	7	7	7	7	7	6	6	6	6	6	7	7	7	4	334	95,4%	100%	
PAIT	7	7	7	6	7	7	7	7	5	7	7	7	6	6	7	6	6	7	7	6	7	6	5	6	6	310	88,6%	96%	
PALM	7	7	7	7	6	7	7	7	5	7	7	7	6	6	7	6	7	7	6	7	6	7	7	7	7	321	91,7%	100%	
PARC				4	6	7	7	7	3	7	7	4	7	7	7	7	7	7	7	7	7	7	7	7	7	259	74,0%	78%	
PBCG	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	337	96,3%	100%	
PEPE	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	6	7	2	5	7	7	7	7	7	335	95,7%	100%	
PISR	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	346	98,9%	100%	
PMB1	7	7	3	4	6	7	7	7	2	3	5	7	6	6	2	3	6	7	7	7	7	7	7	6	7	296	84,6%	100%	
POAL	7	7	7	5	7	7	7	7	7	6	7	7	5	7	6	6	7	6	7	7	7	7	1	6	7	329	94,0%	100%	
POLI	7	7	7	7	7	7	6	5	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	340	97,1%	100%	
POVE	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6	7	7	6	7	7	7	7	347	99,1%	100%	
PPTE	7	7	7	7	7	7	6	4	7	7	7	7	7	7	7	3	6	7	7	6	3	7	7	7	7	332	94,9%	100%	
PRGU	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	349	99,7%	100%	
PRMA	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6	7	7	7	6	6	344	98,3%	100%	
PTEC									4	7	6	6	6	6	7		6	7	6	7	7	7	7	7	7	213	60,9%	64%	
QUI1																									0	0,0%	0%		
RECF	6	3	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	6	7	336	96,0%	100%	
RIO2	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	349	99,7%	100%	
RIOB	7	7	7	5	2	7	7	5	6	7	7	7	7	7	7	7	7	7	6	3	5	7	5	2	4	320	91,4%	100%	
RIOD	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	348	99,4%	100%	
RIOP	7	7	7	7	7	7	7	7	6	7	7	7	6	6	7	6	7	6	7	6	7	7	7	7	7	343	98,0%	100%	
RJCG	7	7	7	7	7	6	5	7	7	6	6	7	7	7	7	7	6	7	7	7	7	7	7	7	6	342	97,7%	100%	
RNMO	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	349	99,7%	100%	
RNNA	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	5	7	7	6	7	7	7	7	6	343	98,0%	100%	
ROCD	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	348	99,4%	100%	
ROGM	7	7	7	7	7	7	7	7	6	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	348	99,4%	100%	
ROJI	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	348	99,4%	100%	
ROSA	7	7	7	5	7	6	7	7	7	7	7	7	7	7	7	2	6	7	7	6	3	7	7	6	7	328	93,7%	100%	
RWSN															7	7	7	7	7	7	7	7	7	7	7	98	28,0%	28%	
SAGA	7	7	5	7	7	6	7	7	7	7	6	7	7	6	6	7	7	7	7	7	7	7	7	7	7	335	95,7%	98%	
SALU	7	7	7	6	7	7	7	7	7	6	7	7	7	5	7	6	7	7	7	7	7	7	7	7	7	339	96,9%	100%	
SANT	7	7	7	7	7	7	7	7	6	7	7	7	6	6	7	6	7	6	7	6	7	7	7	7	7	342	97,7%	100%	
SAVO	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	338	96,6%	98%	
SCCH	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	349	99,7%	100%	
SCLA	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	349	99,7%	100%	
SCRZ	7	7	7	7	6	7	7	2						7	7	5	7	7	7	7	7	7	7	5	7	6	303	86,6%	92%
SCUB	7	7	7	7	7	7	7	7	5	7	7	6	6	6	6	7	6	7	6	7	4	7	7	6	6	313	89,4%	98%	
SJRP	7	7	7	7	7	7	7	7	7	7	7	7	7	7	2	5	6	7	5	3	7	3	1	7	321	91,7%	100%		
SL01	7	4	6	7	7	7	7	7	7	5	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	318	90,9%	94%	

	1617	1618	1619	1620	1621	1622	1623	1624	1625	1626	1627	1628	1629	1630	1631	1632	1633	1634	1635	1636	1637	1638	1639	1640	1641	TOT	350	50			
SMAR	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	6	6	347	99,1%	100%			
SPAR	7	7	7	7	7	7	7	7	7	7	7	7	7	7	3	6	7	7	6	3	7	1	3	320	91,4%	98%					
SPCA	7	7	7	2	7									6	7	6	3	6	7	7	6	3	5	2	6	7	273	78,0%	86%		
SRLP	7	6	7	7		2	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	303	86,6%	92%			
SRNW	5	7	4	4	5	7	5	7	7	3	3	6	7	6	7	3	4	5	5	5	7	7	7	6	7	297	84,9%	100%			
SRZN	7	7	3	3	5	6	7	6	7	2	3	4	6	6	7	1	4	5	7	6	7	5	6	6	7	284	81,1%	100%			
SSA1		7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	335	95,7%	98%			
SVIC	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	320	91,4%	94%			
TOGU	7	7	7	7	7	7	7	7	6	7	7	6	7	5	7	7	7	7	7	7	7	7	7	7	7	341	97,4%	100%			
TOPL	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	341	97,4%	100%				
TUCU																									305	87,1%	88%				
UBA1	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	2	5	1								280	80,0%	86%			
UBER	7	7	7	6	7	7	7	7	7	7	7	7	6	6	7	7	7	7	7	7	7	7	7	7	7	335	95,7%	98%			
UCOR					6	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	260	74,3%	78%			
UFPR	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	350	100,0%	100%			
UNSA	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	327	93,4%	94%			
URUS	7	7	7	7		4	7	1	7	7	7	7	7	5	7	7	7	7	7	5	5	7	7	7	7	287	82,0%	90%			
UYLP																									7	6	7	34	9,7%	10%	
UYMO	7	7	6	7	7	5	6	5	7		6	5	7	1	1	7	7	7	7	7	7	7	7	7	7	287	82,0%	90%			
UYSO																									7	6	7	7	27	7,7%	8%
VBCA	7	6	6	7	3	3	7	7	7	7	7	7	6	4	7	7	7	7	7	7	7	7	7	7	7	310	88,6%	94%			
VESL	7	6	7	7	7	6	7	7	5	7	6	7	6	6	6	6	6	7	6	7	6	7	6	7	6	216	61,7%	68%			
VICO	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	335	95,7%	96%			
YBCA																									7	7	7	28	8,0%	8%	

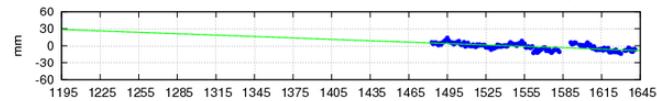
ANEXO 3 – SERIE TEMPORAL DE LAS ESTACIONES



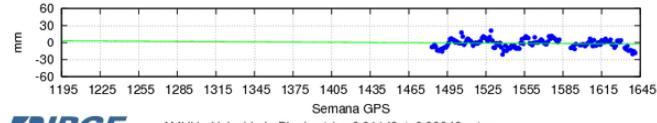
ALAR - Velocidade Planimetrica 0.01429 ± 0.00046 m/ano



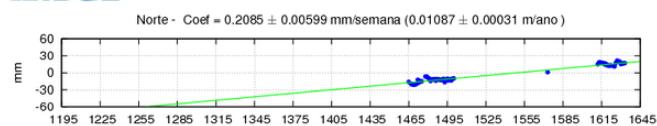
Leste - Coef = -0.08308 ± 0.00668 mm/semana (-0.00433 ± 0.00035 m/ano)



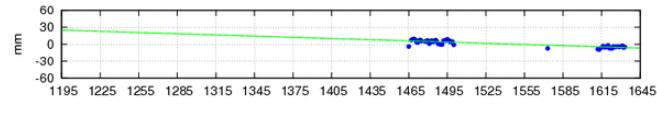
Altura - Coef = -0.01374 ± 0.0143 mm/semana (-0.00072 ± 0.00075 m/ano)



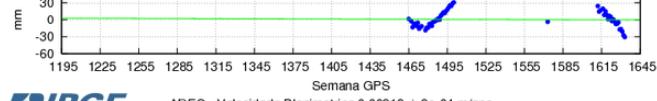
AMHU - Velocidade Planimetrica 0.01148 ± 0.00042 m/ano



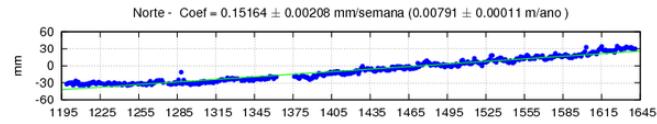
Leste - Coef = -0.07066 ± 0.0054 mm/semana (-0.00368 ± 0.00028 m/ano)



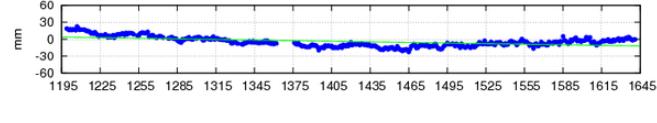
Altura - Coef = -0.00718 ± 0.02808 mm/semana (-0.00037 ± 0.00146 m/ano)



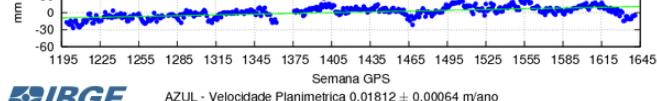
AREQ - Velocidade Planimetrica $0.00813 \pm 2e-04$ m/ano



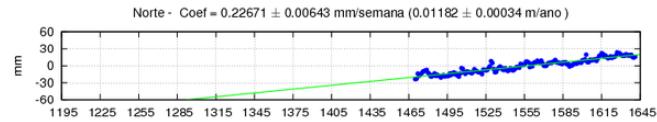
Leste - Coef = -0.03609 ± 0.00316 mm/semana (-0.00188 ± 0.00016 m/ano)



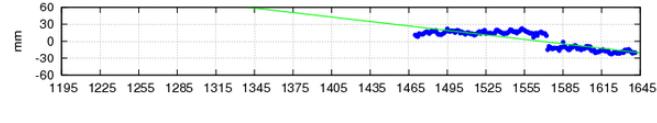
Altura - Coef = 0.04561 ± 0.00315 mm/semana (0.00238 ± 0.00016 m/ano)



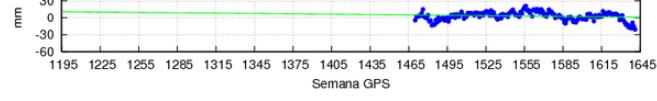
AZUL - Velocidade Planimetrica 0.01812 ± 0.00064 m/ano



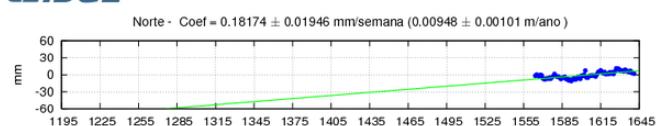
Leste - Coef = -0.26325 ± 0.01045 mm/semana (-0.01373 ± 0.00054 m/ano)



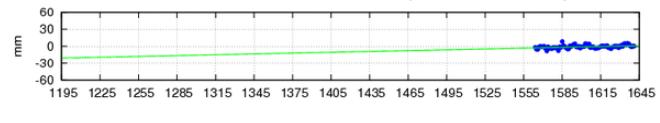
Altura - Coef = -0.02179 ± 0.01347 mm/semana ($-0.00114 \pm 7e-04$ m/ano)



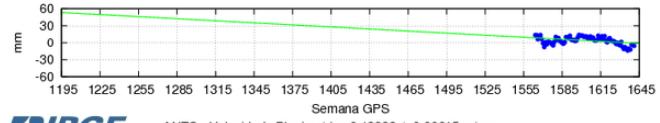
ALUM - Velocidade Planimetrica 0.00982 ± 0.00122 m/ano



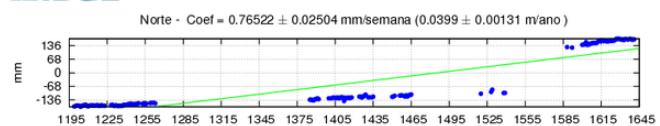
Leste - Coef = 0.04923 ± 0.01304 mm/semana (0.00257 ± 0.00068 m/ano)



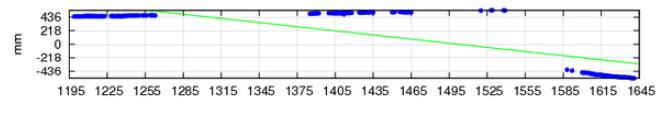
Altura - Coef = -0.12195 ± 0.03415 mm/semana (-0.00636 ± 0.00178 m/ano)



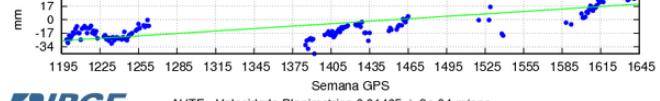
ANTC - Velocidade Planimetrica 0.12222 ± 0.00165 m/ano



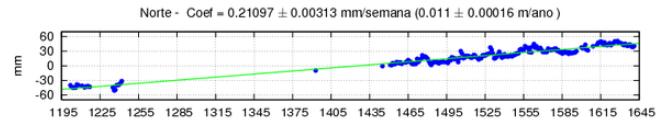
Leste - Coef = -2.21558 ± 0.11529 mm/semana (-0.11553 ± 0.00601 m/ano)



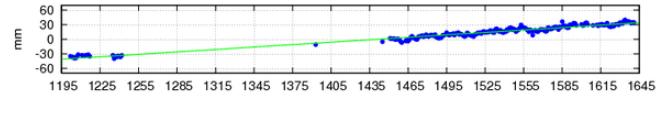
Altura - Coef = 0.10336 ± 0.00589 mm/semana (0.00539 ± 0.00031 m/ano)



AUTF - Velocidade Planimetrica $0.01405 \pm 2e-04$ m/ano



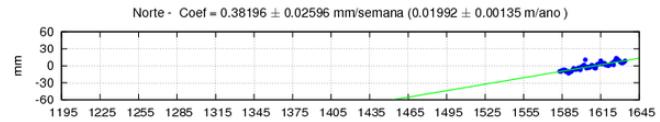
Leste - Coef = 0.16769 ± 0.00237 mm/semana (0.00874 ± 0.00012 m/ano)



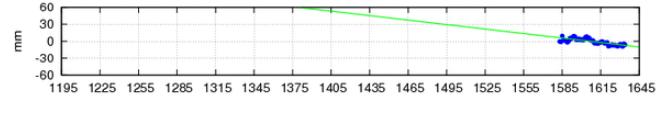
Altura - Coef = 0.0357 ± 0.00383 mm/semana ($0.00186 \pm 2e-04$ m/ano)



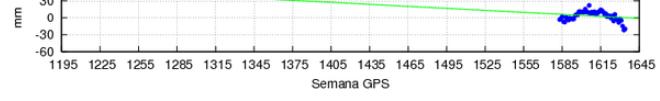
BABR - Velocidade Planimetrica 0.02423 ± 0.00222 m/ano

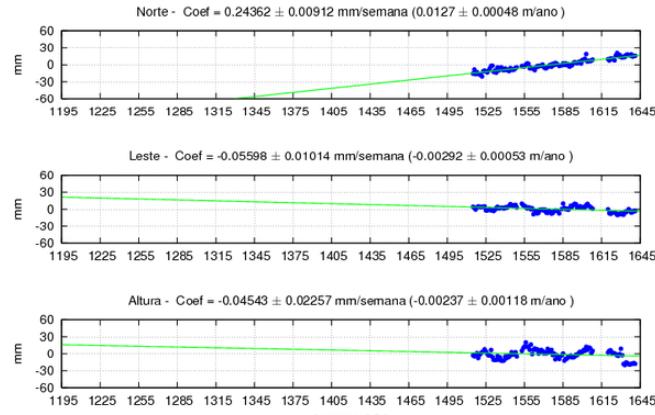
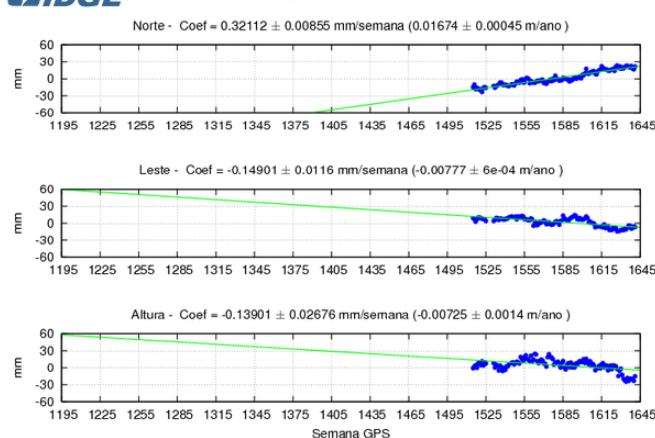
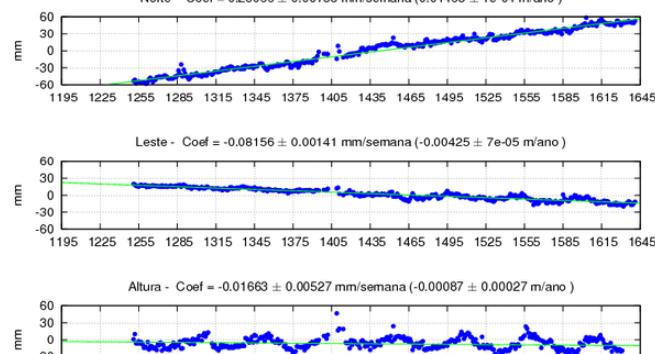
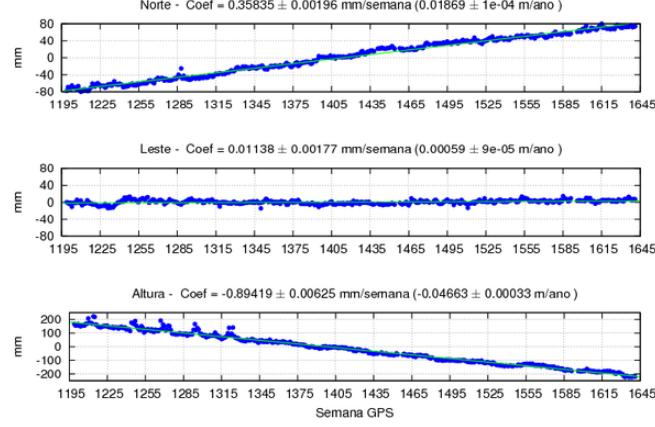
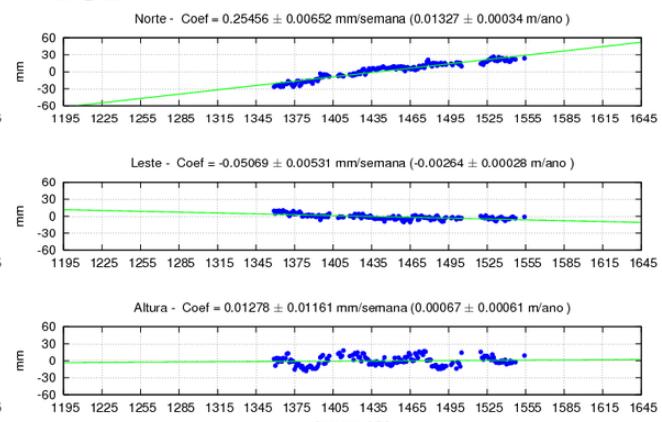
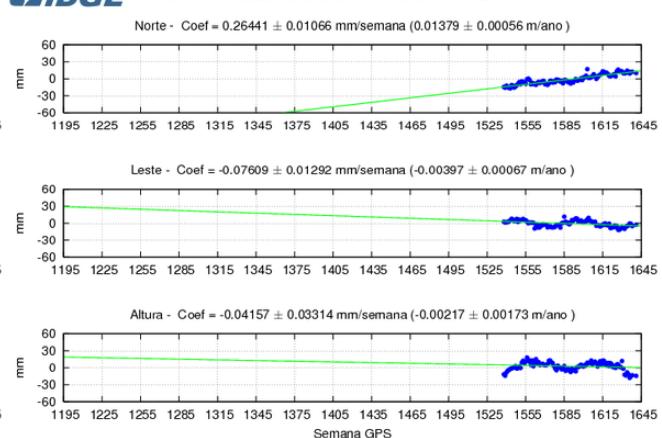
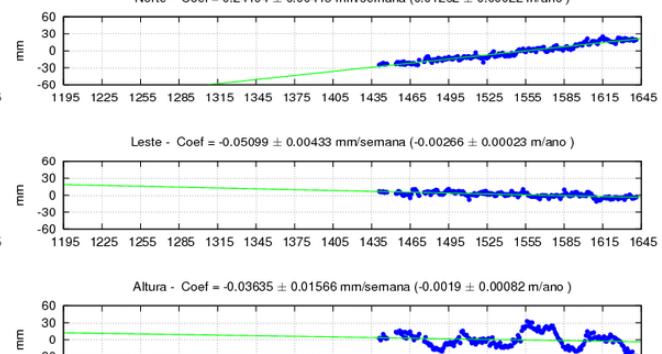
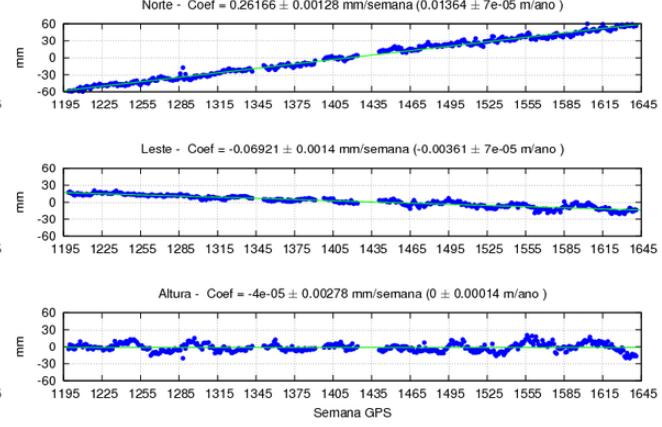


Leste - Coef = -0.26449 ± 0.03368 mm/semana (-0.01379 ± 0.00176 m/ano)

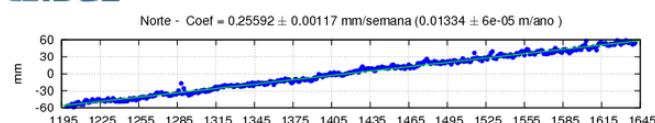


Altura - Coef = -0.11891 ± 0.09516 mm/semana (-0.0062 ± 0.00496 m/ano)

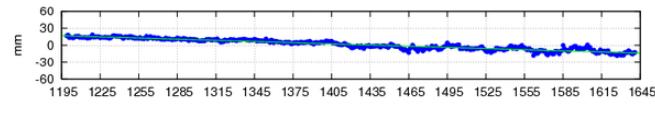


BAIR - Velocidade Planimetrica 0.01303 ± 0.00071 m/ano

 BATF - Velocidade Planimetrica 0.01846 ± 0.00075 m/ano

 BELE - Velocidade Planimetrica 0.01524 ± 0.00012 m/ano

 BOGT - Velocidade Planimetrica 0.01869 ± 0.00014 m/ano

 BANS - Velocidade Planimetrica 0.01353 ± 0.00044 m/ano

 BAVC - Velocidade Planimetrica 0.01435 ± 0.00087 m/ano

 BOAV - Velocidade Planimetrica 0.01289 ± 0.00031 m/ano

 BOMJ - Velocidade Planimetrica $0.01411 \pm 1e-04$ m/ano


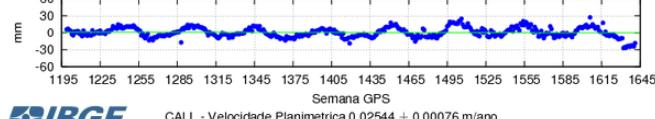
BRAZ - Velocidade Planimetrica $0.01382 \pm 9e-05$ m/ano



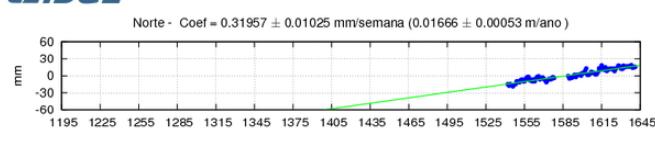
Leste - Coef = -0.06905 ± 0.00125 mm/semana ($-0.0036 \pm 6e-05$ m/ano)



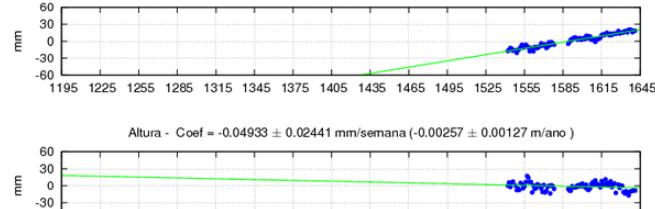
Altura - Coef = -0.00332 ± 0.00369 mm/semana (-0.00017 ± 0.00019 m/ano)



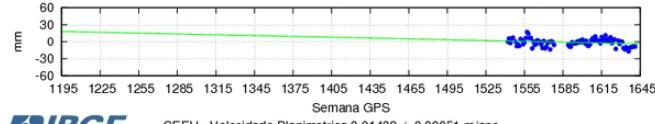
CALL - Velocidade Planimetrica 0.02544 ± 0.00076 m/ano



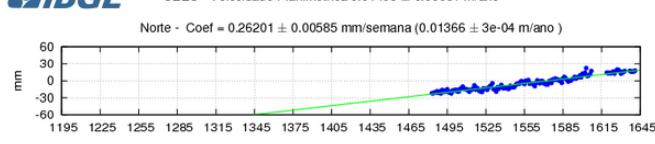
Leste - Coef = 0.36855 ± 0.01036 mm/semana (0.01922 ± 0.00054 m/ano)



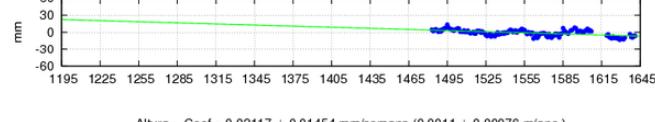
Altura - Coef = -0.04933 ± 0.02441 mm/semana (-0.00257 ± 0.00127 m/ano)



CEEU - Velocidade Planimetrica 0.01408 ± 0.00051 m/ano



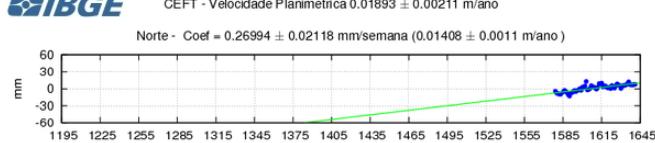
Leste - Coef = -0.0656 ± 0.00773 mm/semana ($-0.00342 \pm 4e-04$ m/ano)



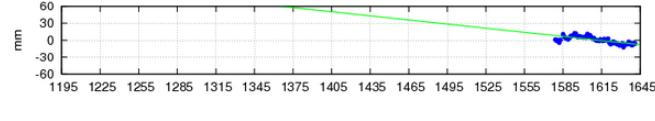
Altura - Coef = 0.02117 ± 0.01454 mm/semana (0.0011 ± 0.00076 m/ano)



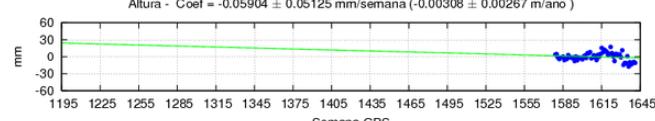
CEFT - Velocidade Planimetrica 0.01893 ± 0.00211 m/ano



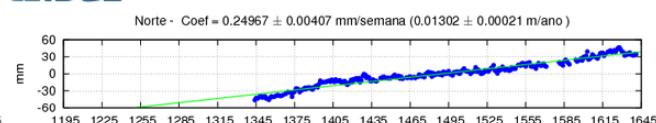
Leste - Coef = -0.24274 ± 0.03453 mm/semana (-0.01266 ± 0.0018 m/ano)



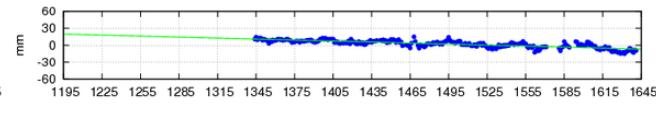
Altura - Coef = -0.05904 ± 0.05125 mm/semana (-0.00308 ± 0.00267 m/ano)



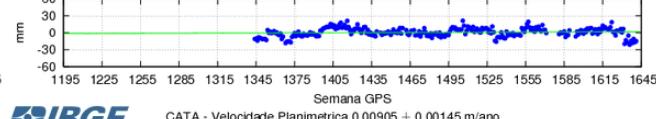
BRFT - Velocidade Planimetrica 0.01338 ± 0.00025 m/ano



Leste - Coef = -0.05948 ± 0.00268 mm/semana (-0.0031 ± 0.00014 m/ano)



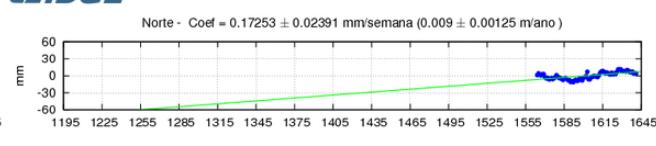
Altura - Coef = 0.00765 ± 0.00613 mm/semana ($4e-04 \pm 0.00032$ m/ano)



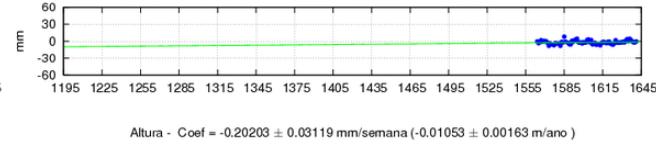
Semana GPS

IBGE

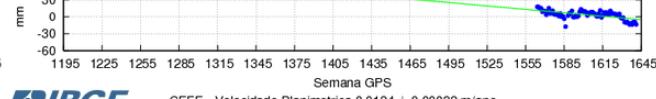
CATA - Velocidade Planimetrica 0.00905 ± 0.00145 m/ano



Leste - Coef = 0.01924 ± 0.01415 mm/semana (0.001 ± 0.00074 m/ano)



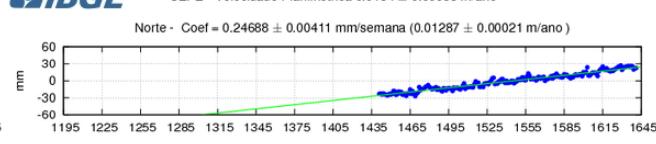
Altura - Coef = -0.20203 ± 0.03119 mm/semana (-0.01053 ± 0.00163 m/ano)



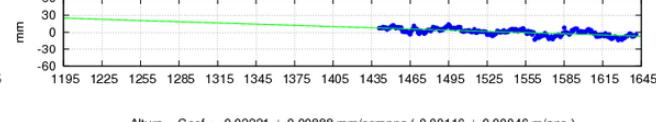
Semana GPS

IBGE

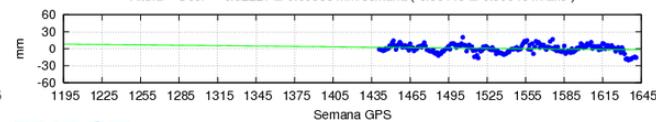
CEFE - Velocidade Planimetrica 0.0134 ± 0.00033 m/ano



Leste - Coef = -0.07142 ± 0.00493 mm/semana (-0.00372 ± 0.00026 m/ano)



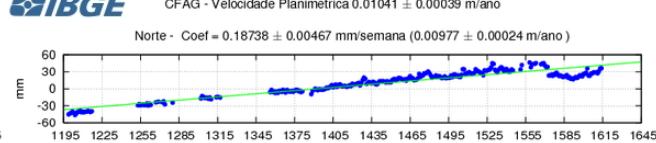
Altura - Coef = -0.02221 ± 0.00888 mm/semana (-0.00116 ± 0.00046 m/ano)



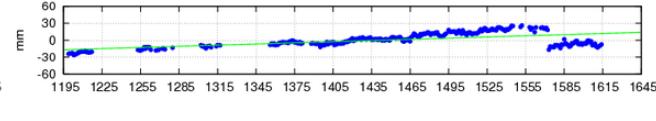
Semana GPS

IBGE

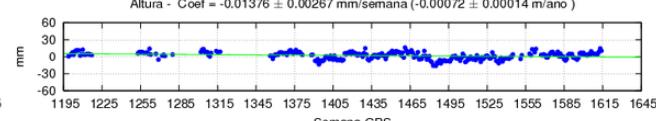
CFAG - Velocidade Planimetrica 0.01041 ± 0.00039 m/ano



Leste - Coef = 0.06883 ± 0.00595 mm/semana (0.00359 ± 0.00031 m/ano)

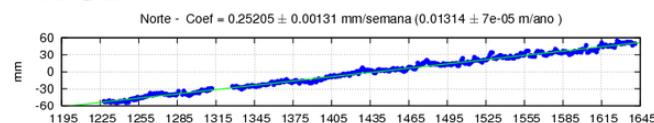


Altura - Coef = -0.01376 ± 0.00267 mm/semana (-0.00072 ± 0.00014 m/ano)

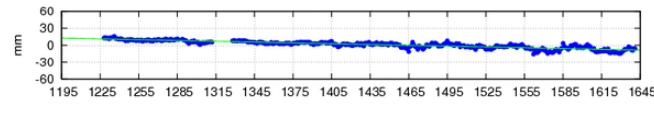


Semana GPS

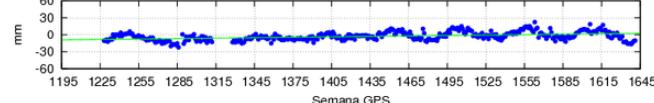
CHPI - Velocidade Planimetrica $0.01338 \pm 1e-04$ m/ano



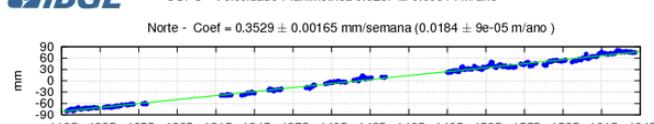
Leste - Coef = -0.04796 ± 0.00132 mm/semana ($-0.0025 \pm 7e-05$ m/ano)



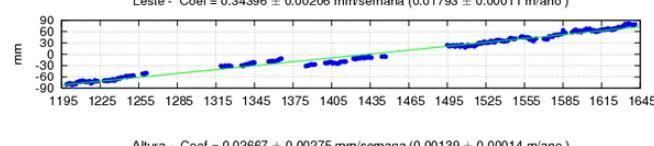
Altura - Coef = 0.02647 ± 0.00324 mm/semana (0.00138 ± 0.00017 m/ano)



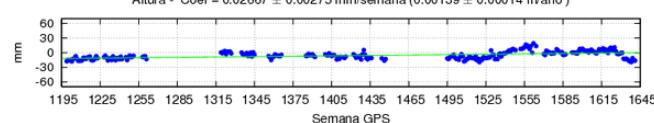
Semana GPS COPO - Velocidade Planimetrica 0.0257 ± 0.00014 m/ano



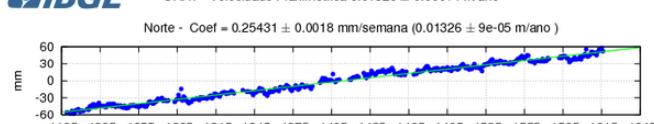
Leste - Coef = 0.34396 ± 0.00206 mm/semana (0.01793 ± 0.00014 m/ano)



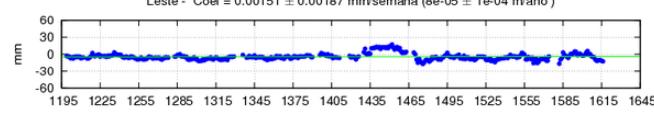
Altura - Coef = 0.02667 ± 0.00275 mm/semana (0.00139 ± 0.00014 m/ano)



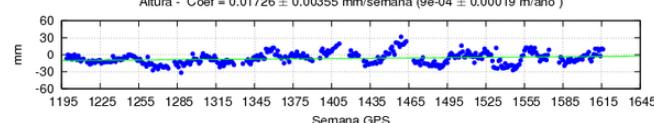
Semana GPS CRAT - Velocidade Planimetrica 0.01326 ± 0.00014 m/ano



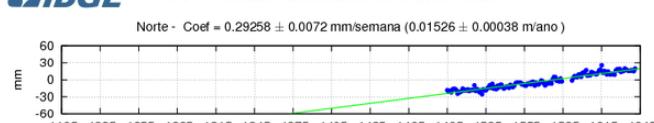
Leste - Coef = 0.00151 ± 0.00187 mm/semana ($8e-05 \pm 1e-04$ m/ano)



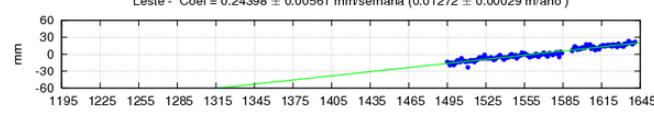
Altura - Coef = 0.01726 ± 0.00355 mm/semana ($9e-04 \pm 0.00019$ m/ano)



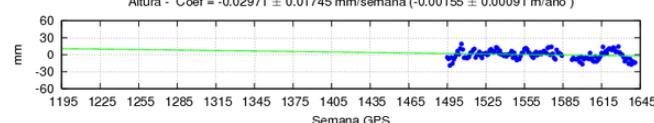
Semana GPS CRO1 - Velocidade Planimetrica 0.01986 ± 0.00048 m/ano



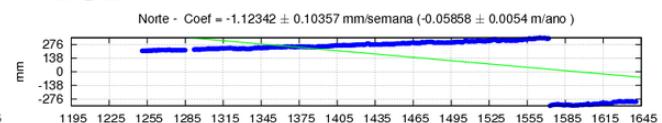
Leste - Coef = 0.24398 ± 0.00561 mm/semana (0.01272 ± 0.00029 m/ano)



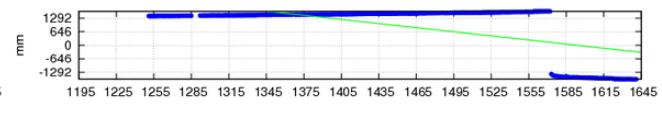
Altura - Coef = -0.02971 ± 0.01745 mm/semana (-0.00155 ± 0.00091 m/ano)



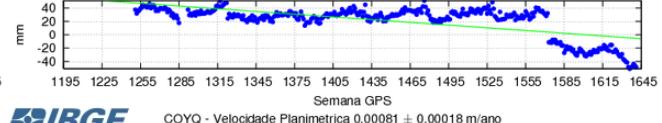
CONZ - Velocidade Planimetrica 0.34553 ± 0.02605 m/ano



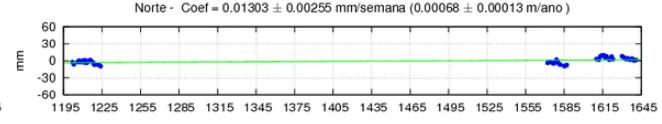
Leste - Coef = -6.53059 ± 0.4887 mm/semana (-0.34052 ± 0.02548 m/ano)



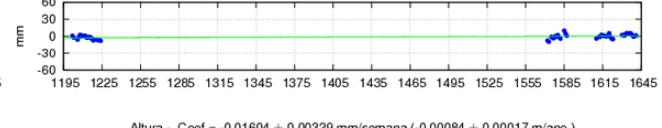
Altura - Coef = -0.13591 ± 0.0089 mm/semana (-0.00709 ± 0.00046 m/ano)



Semana GPS COYQ - Velocidade Planimetrica 0.00081 ± 0.00018 m/ano



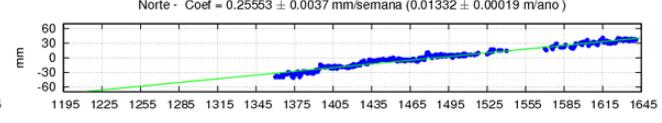
Leste - Coef = 0.00848 ± 0.00229 mm/semana (0.00044 ± 0.00012 m/ano)



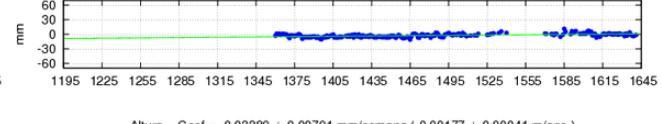
Altura - Coef = -0.01604 ± 0.00329 mm/semana (-0.00084 ± 0.00017 m/ano)



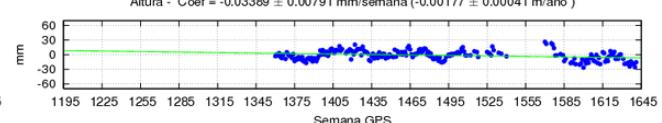
Semana GPS CRCS - Velocidade Planimetrica 0.01337 ± 0.00023 m/ano



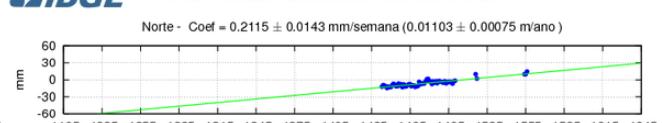
Leste - Coef = 0.0219 ± 0.00244 mm/semana (0.00114 ± 0.00013 m/ano)



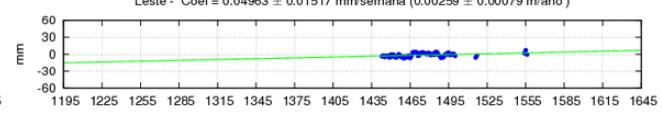
Altura - Coef = -0.03389 ± 0.00791 mm/semana (-0.00177 ± 0.00041 m/ano)



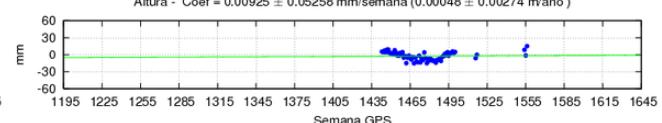
Semana GPS CRUZ - Velocidade Planimetrica 0.01133 ± 0.00109 m/ano



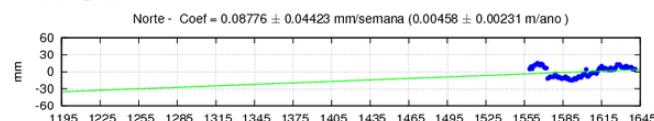
Leste - Coef = 0.04963 ± 0.01517 mm/semana (0.00259 ± 0.00079 m/ano)



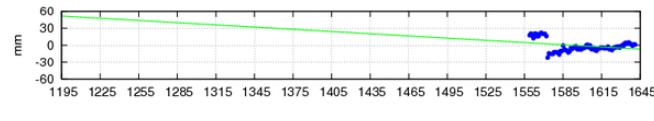
Altura - Coef = 0.00925 ± 0.05258 mm/semana (0.00048 ± 0.00274 m/ano)



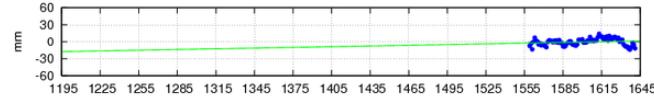
CSLO - Velocidade Planimetrica 0.00821 ± 0.00377 m/ano



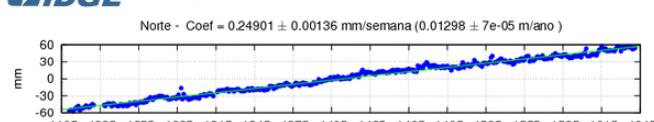
Leste - Coef = -0.13076 ± 0.0572 mm/semana (-0.00682 ± 0.00298 m/ano)



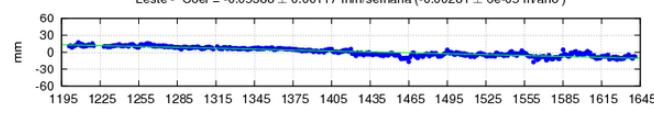
Altura - Coef = 0.04235 ± 0.03449 mm/semana (0.00221 ± 0.0018 m/ano)



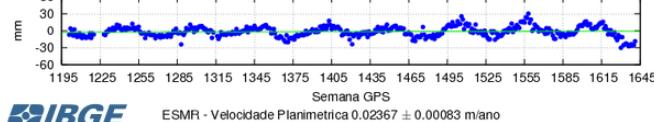
CUIB - Velocidade Planimetrica $0.01328 \pm 9e-05$ m/ano



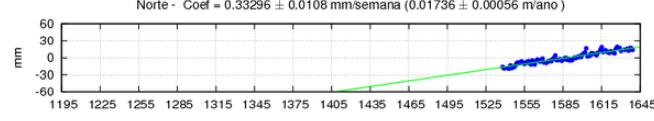
Leste - Coef = -0.05388 ± 0.00117 mm/semana ($-0.00281 \pm 6e-05$ m/ano)



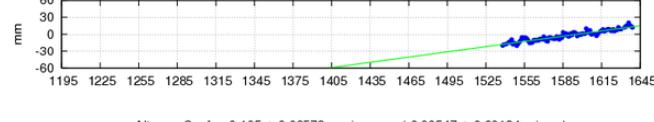
Altura - Coef = 0.00456 ± 0.00389 mm/semana ($0.00024 \pm 2e-04$ m/ano)



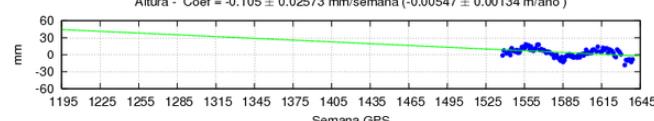
ESMR - Velocidade Planimetrica 0.02367 ± 0.00083 m/ano



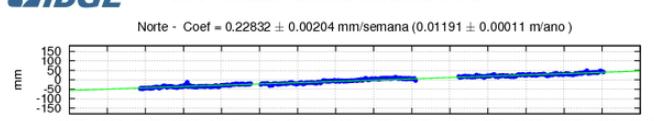
Leste - Coef = 0.30866 ± 0.01162 mm/semana (0.01609 ± 0.00061 m/ano)



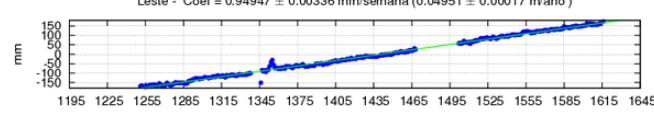
Altura - Coef = -0.105 ± 0.02573 mm/semana (-0.00547 ± 0.00134 m/ano)



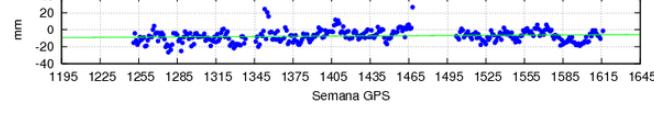
GLPS - Velocidade Planimetrica $0.05092 \pm 2e-04$ m/ano



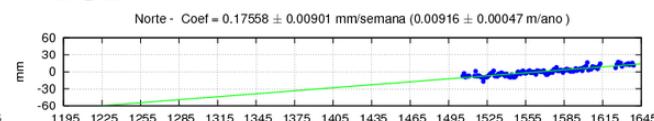
Leste - Coef = 0.94947 ± 0.00336 mm/semana (0.04951 ± 0.00017 m/ano)



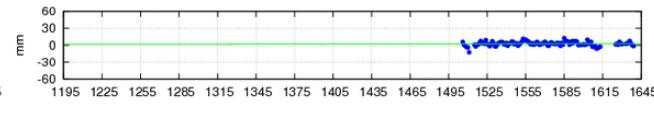
Altura - Coef = 0.00848 ± 0.00341 mm/semana (0.00044 ± 0.00018 m/ano)



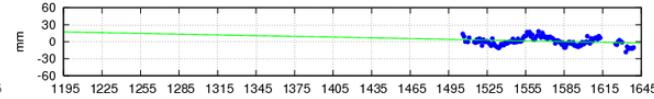
CUEC - Velocidade Planimetrica 0.00916 ± 0.00071 m/ano



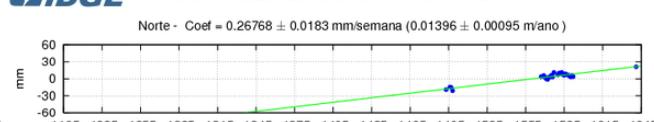
Leste - Coef = 0.00223 ± 0.01024 mm/semana (0.00012 ± 0.00053 m/ano)



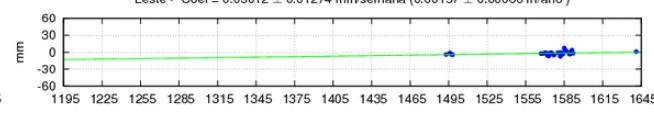
Altura - Coef = -0.04454 ± 0.01728 mm/semana ($-0.00232 \pm 9e-04$ m/ano)



CUIM - Velocidade Planimetrica 0.01405 ± 0.00116 m/ano



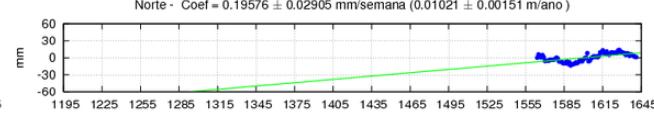
Leste - Coef = 0.03012 ± 0.01274 mm/semana (0.00157 ± 0.00066 m/ano)



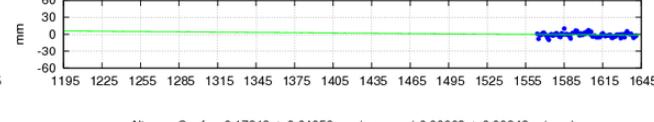
Altura - Coef = -0.09086 ± 0.024292 mm/semana (-0.00474 ± 0.01267 m/ano)



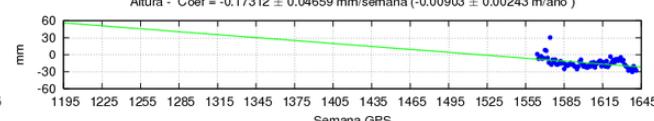
ESQU - Velocidade Planimetrica 0.01024 ± 0.00176 m/ano



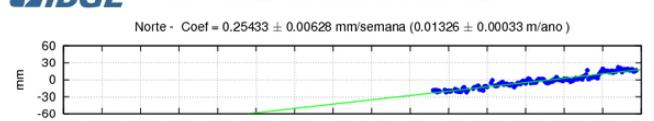
Leste - Coef = -0.01659 ± 0.01721 mm/semana ($-0.00087 \pm 9e-04$ m/ano)



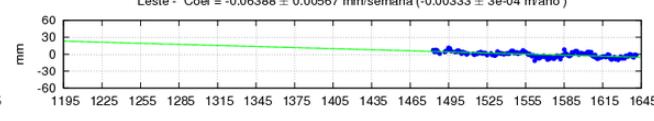
Altura - Coef = -0.17312 ± 0.04659 mm/semana (-0.00903 ± 0.00243 m/ano)



GOJA - Velocidade Planimetrica 0.01367 ± 0.00044 m/ano



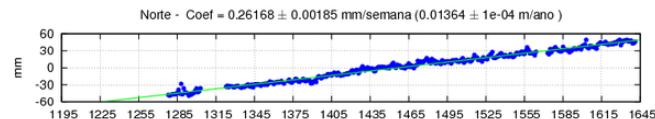
Leste - Coef = -0.06388 ± 0.00567 mm/semana ($-0.00333 \pm 3e-04$ m/ano)



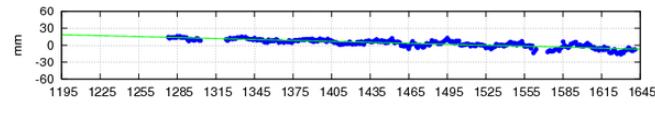
Altura - Coef = -0.1115 ± 0.02191 mm/semana (-0.00581 ± 0.00114 m/ano)



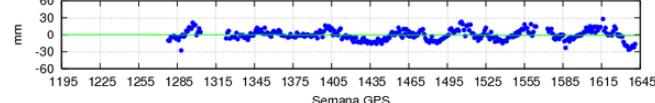
GVAL - Velocidade Planimetrica 0.01397 ± 0.00014 m/ano



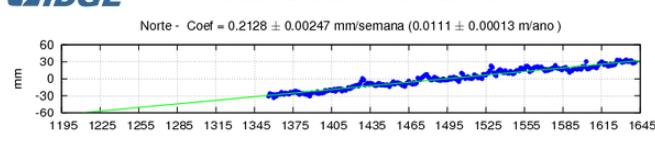
Leste - Coef = -0.05713 ± 0.00205 mm/semana (-0.00298 ± 0.00011 m/ano)



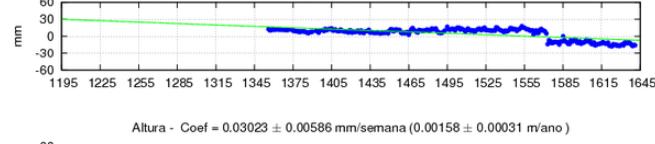
Altura - Coef = -0.00314 ± 0.00554 mm/semana (-0.00016 ± 0.00029 m/ano)



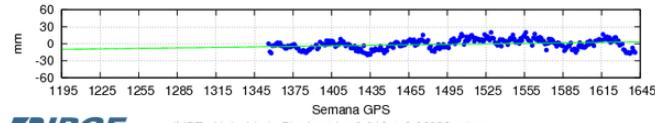
IGM1 - Velocidade Planimetrica 0.01191 ± 0.00029 m/ano



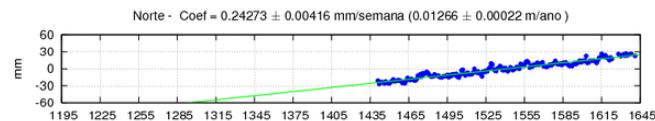
Leste - Coef = -0.08283 ± 0.00499 mm/semana (-0.00432 ± 0.00026 m/ano)



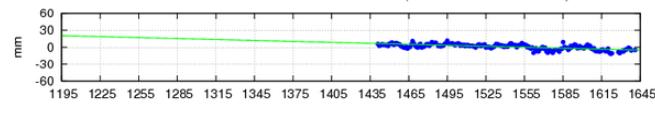
Altura - Coef = 0.03023 ± 0.00586 mm/semana (0.00158 ± 0.00031 m/ano)



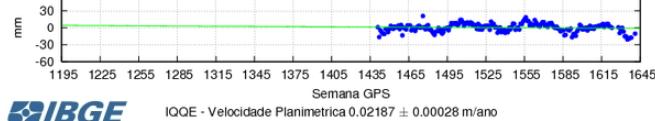
IMBT - Velocidade Planimetrica 0.013 ± 0.00032 m/ano



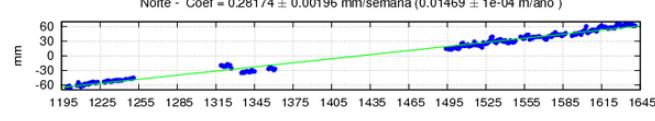
Leste - Coef = -0.0573 ± 0.00445 mm/semana (-0.00299 ± 0.00023 m/ano)



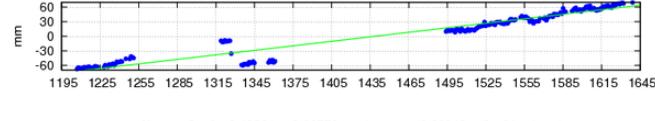
Altura - Coef = -0.01184 ± 0.00993 mm/semana (-0.00062 ± 0.00052 m/ano)



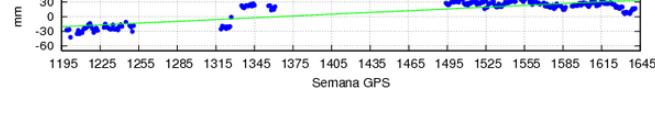
IQOE - Velocidade Planimetrica 0.02187 ± 0.00028 m/ano



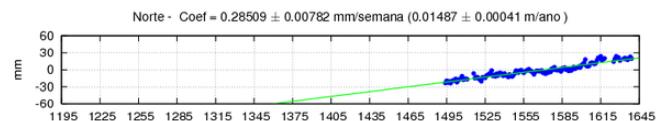
Leste - Coef = 0.31062 ± 0.0051 mm/semana (0.0162 ± 0.00027 m/ano)



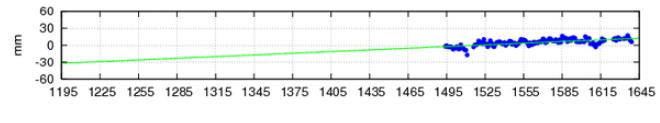
Altura - Coef = 0.12321 ± 0.00579 mm/semana ($0.00642 \pm 3e-04$ m/ano)



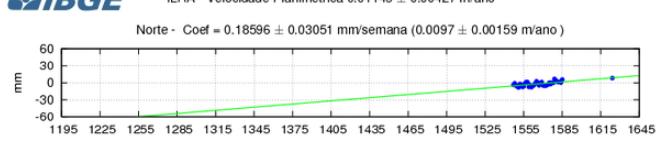
GYEC - Velocidade Planimetrica 0.01574 ± 0.00064 m/ano



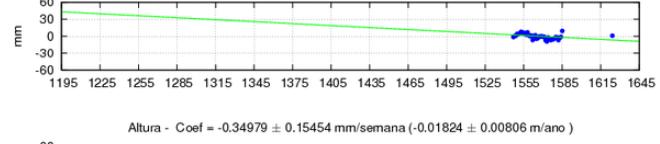
Leste - Coef = 0.09939 ± 0.00934 mm/semana (0.00518 ± 0.00049 m/ano)



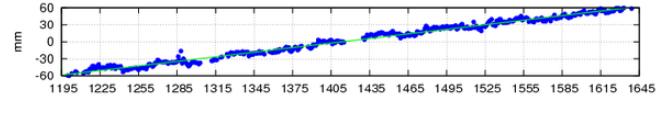
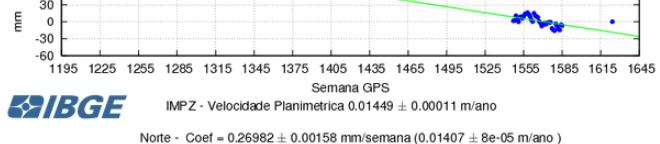
Altura - Coef = -0.07067 ± 0.01341 mm/semana ($-0.00369 \pm 7e-04$ m/ano)



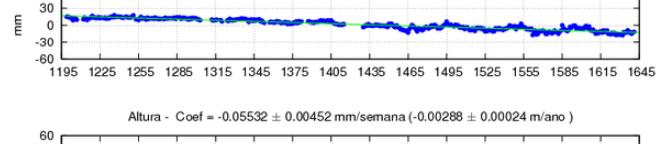
Leste - Coef = -0.11687 ± 0.076 mm/semana (-0.00609 ± 0.00396 m/ano)



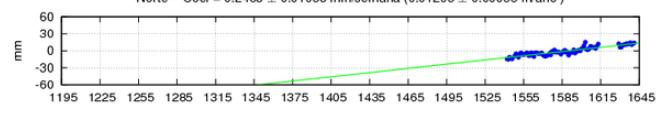
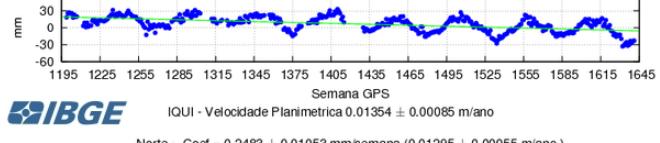
Altura - Coef = -0.34979 ± 0.15454 mm/semana (-0.01824 ± 0.00806 m/ano)



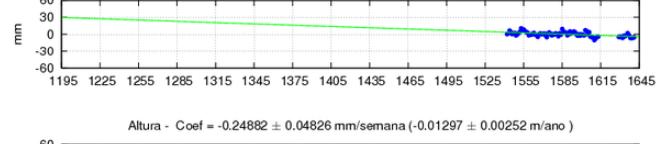
Leste - Coef = -0.06653 ± 0.00129 mm/semana ($-0.00347 \pm 7e-05$ m/ano)



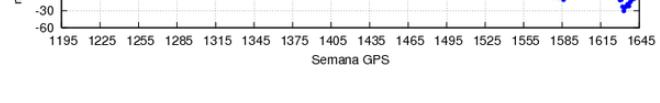
Altura - Coef = -0.05532 ± 0.00452 mm/semana (-0.00288 ± 0.00024 m/ano)

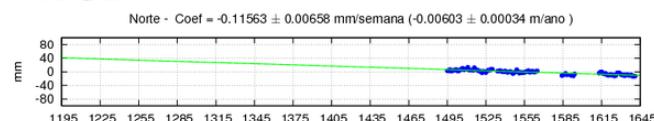
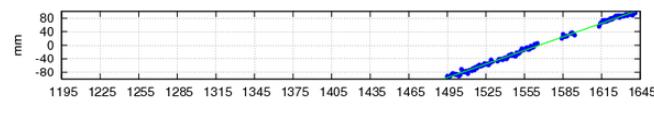
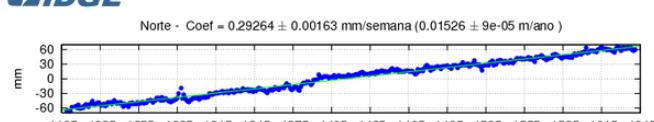
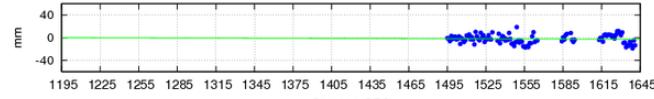
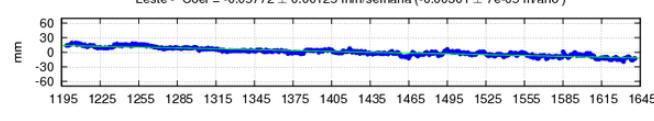
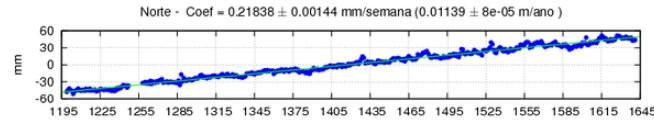
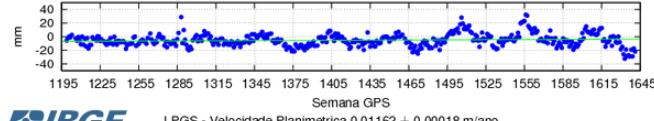
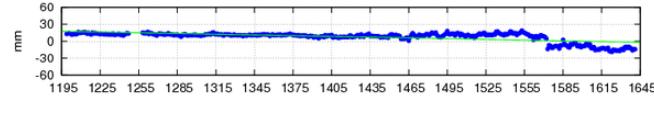
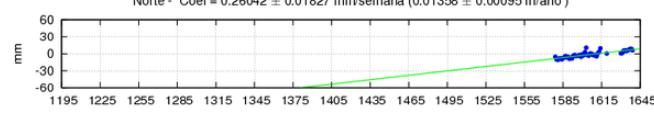
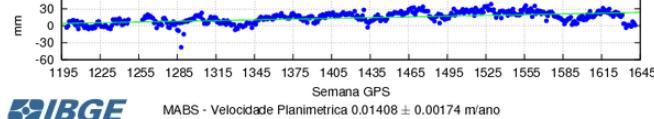
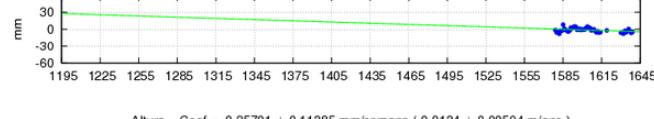
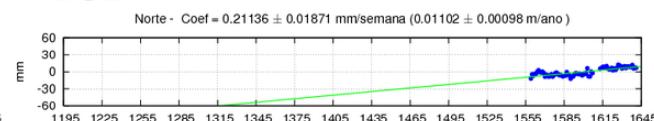
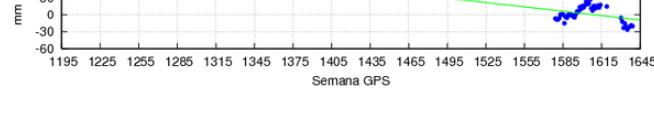
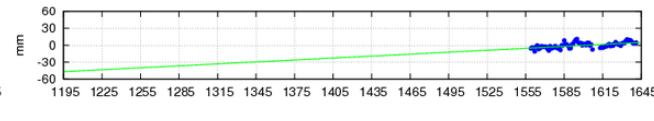
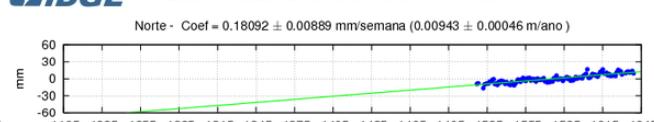
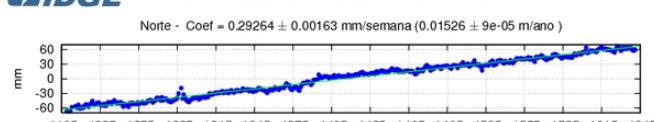
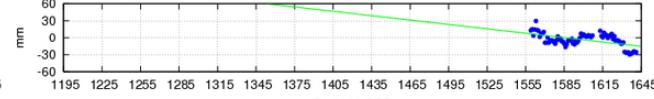
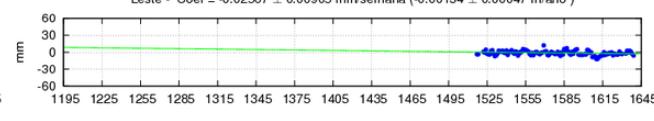
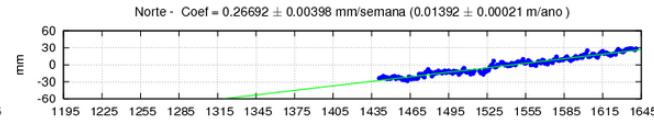
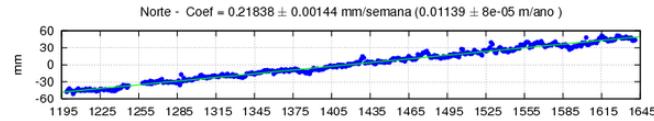
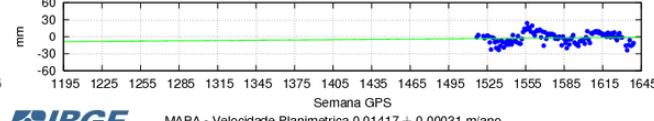
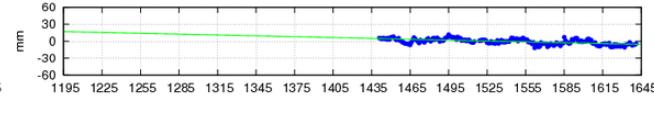
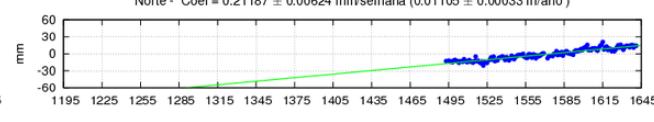
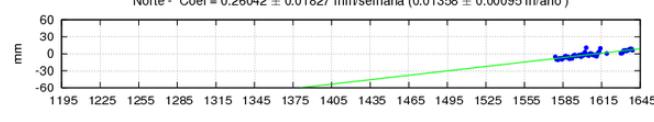
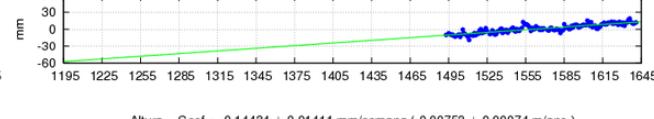


Leste - Coef = -0.07574 ± 0.01235 mm/semana (-0.00395 ± 0.00064 m/ano)

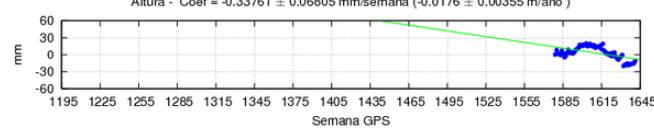
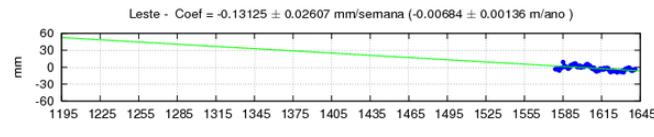
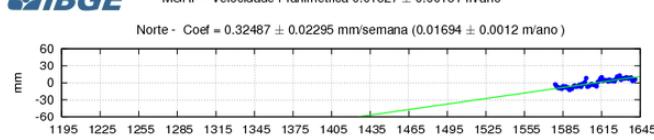
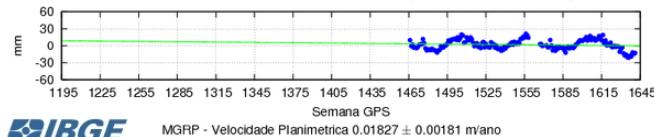
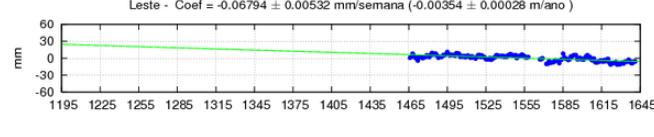
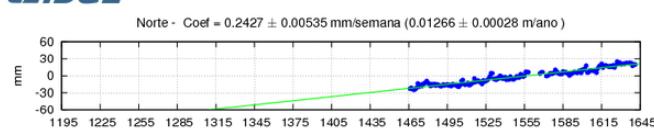
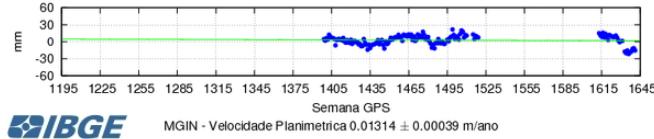
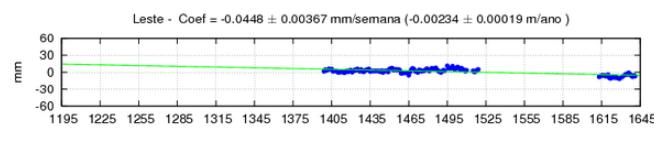
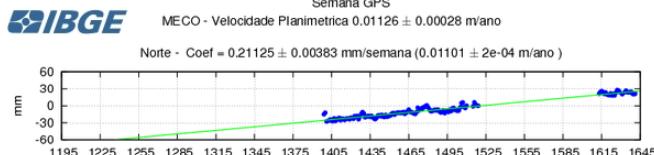
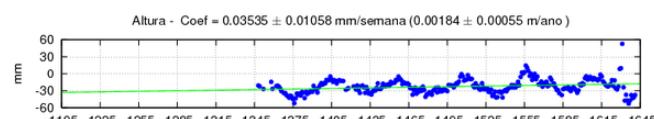
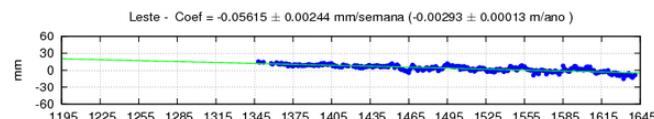
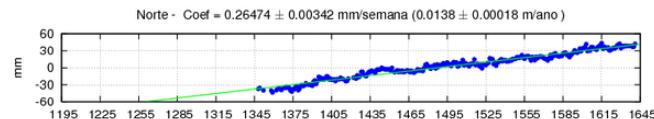


Altura - Coef = -0.24882 ± 0.04826 mm/semana (-0.01297 ± 0.00252 m/ano)

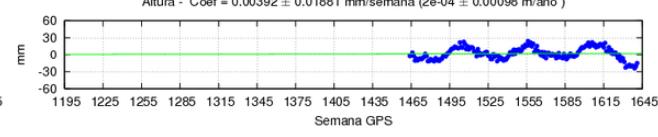
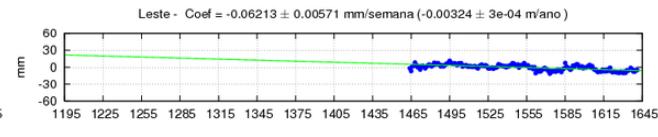
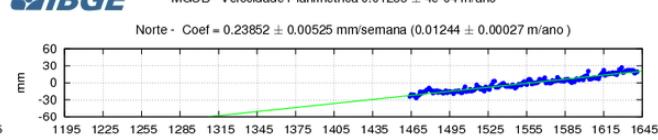
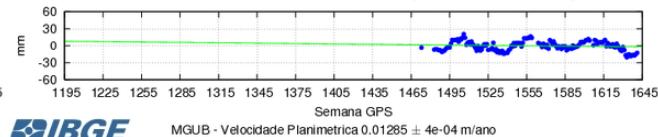
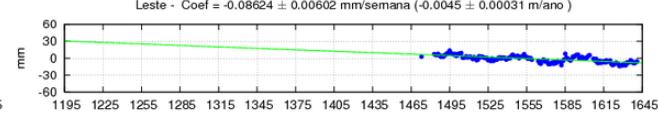
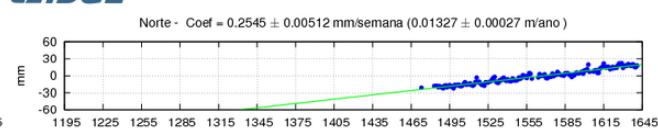
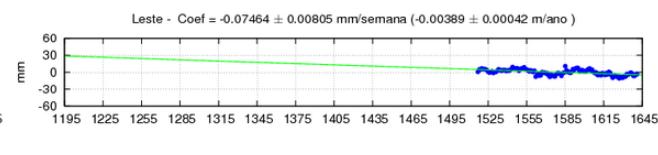
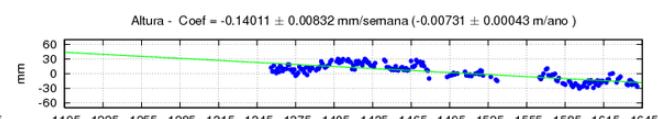
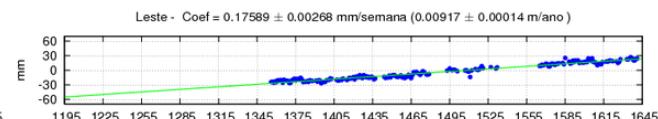
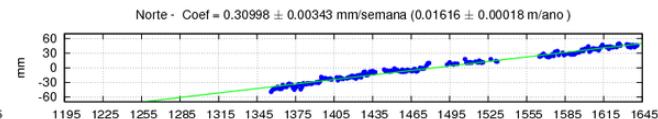


Leste - Coef = 1.33552 ± 0.00857 mm/semana (0.06964 ± 0.00045 m/ano)Altura - Coef = -0.00661 ± 0.01639 mm/semana (-0.00034 ± 0.00085 m/ano)Leste - Coef = -0.05772 ± 0.00125 mm/semana ($-0.00301 \pm 7e-05$ m/ano)Altura - Coef = 0.00725 ± 0.0038 mm/semana ($0.00038 \pm 2e-04$ m/ano)Leste - Coef = -0.04413 ± 0.00303 mm/semana (-0.0023 ± 0.00016 m/ano)Altura - Coef = 0.04391 ± 0.00352 mm/semana (0.00229 ± 0.00018 m/ano)Leste - Coef = -0.07167 ± 0.02803 mm/semana (-0.00374 ± 0.00146 m/ano)Altura - Coef = -0.25701 ± 0.11385 mm/semana (-0.0134 ± 0.00594 m/ano)Leste - Coef = 0.11548 ± 0.01386 mm/semana (0.00602 ± 0.00072 m/ano)Altura - Coef = -0.25807 ± 0.05066 mm/semana (-0.01346 ± 0.00264 m/ano)Leste - Coef = -0.02567 ± 0.00905 mm/semana (-0.00134 ± 0.00047 m/ano)Altura - Coef = 0.01681 ± 0.02566 mm/semana (0.00088 ± 0.00134 m/ano)Leste - Coef = -0.05092 ± 0.00442 mm/semana (-0.00265 ± 0.00023 m/ano)Altura - Coef = -0.04564 ± 0.01746 mm/semana (-0.00238 ± 0.00091 m/ano)Leste - Coef = 0.15639 ± 0.00672 mm/semana (0.00815 ± 0.00035 m/ano)Altura - Coef = -0.14434 ± 0.01411 mm/semana (-0.00753 ± 0.00074 m/ano)

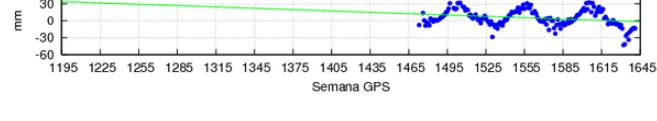
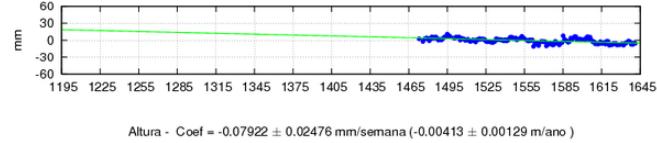
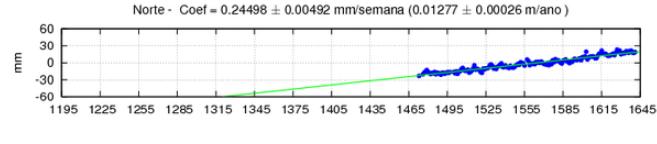
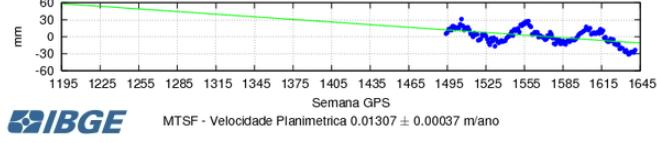
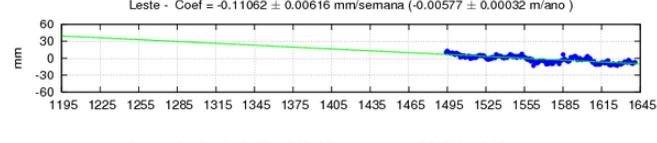
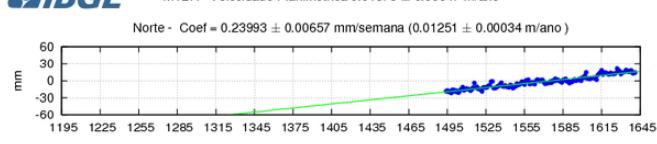
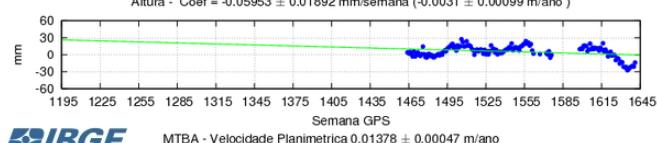
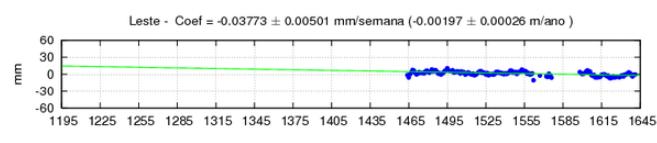
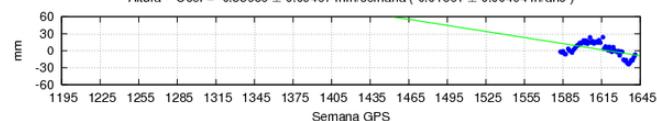
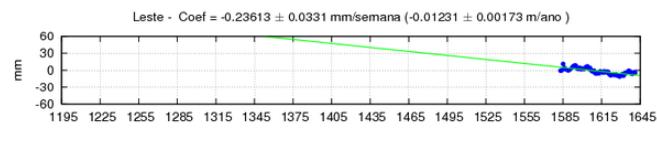
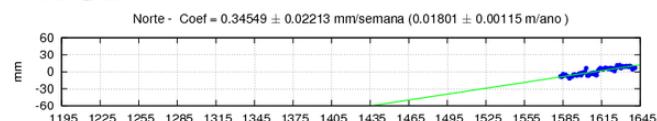
MAPA - Velocidade Planimetrica 0.01411 ± 0.00022 m/ano



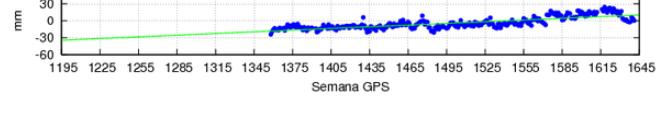
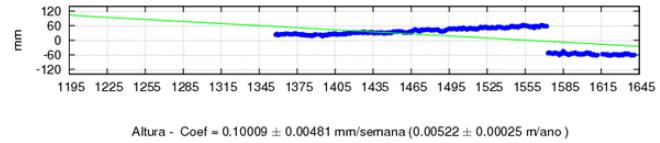
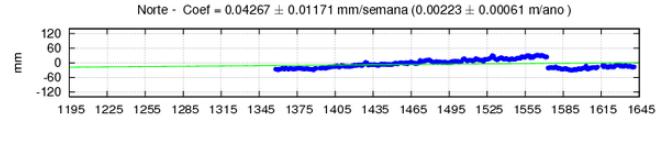
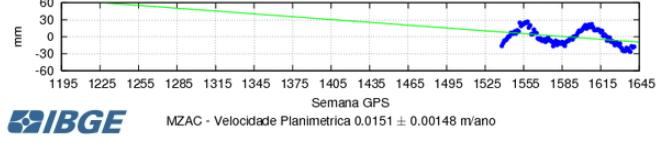
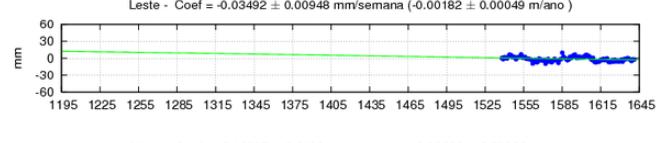
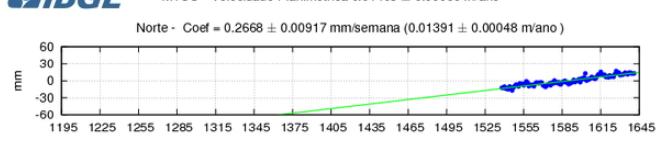
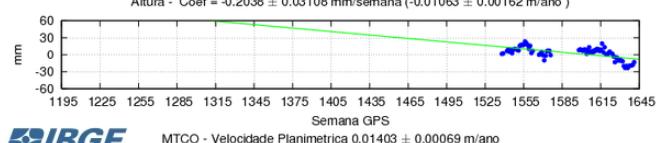
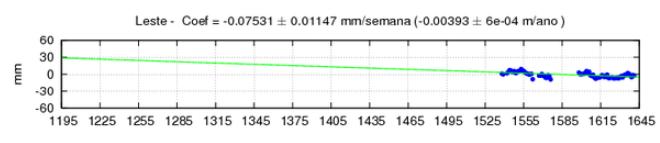
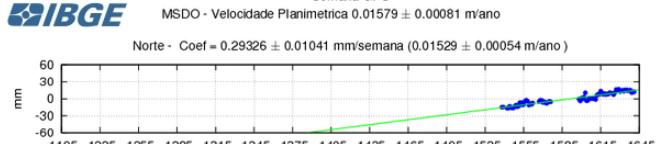
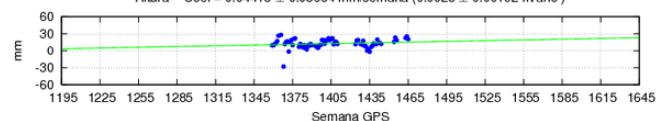
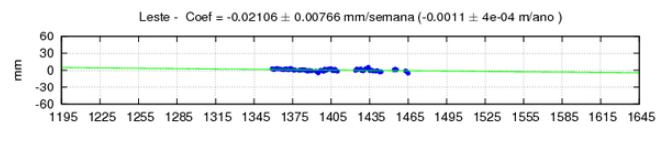
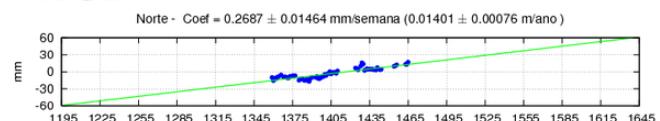
MARA - Velocidade Planimetrica 0.01858 ± 0.00023 m/ano



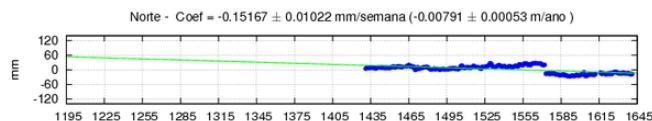
MGVA - Velocidade Planimetrica 0.02182 ± 0.00208 m/ano



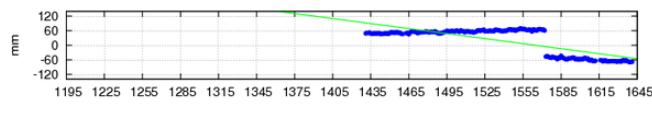
MPLA - Velocidade Planimetrica 0.01405 ± 0.00086 m/ano



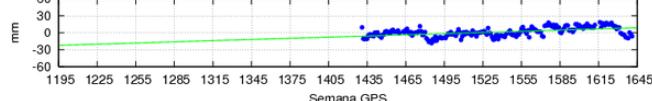
MZAE - Velocidade Planimetrica 0.0369 ± 0.00181 m/ano



Leste - Coef = -0.69127 ± 0.03324 mm/semana (-0.03604 ± 0.00173 m/ano)

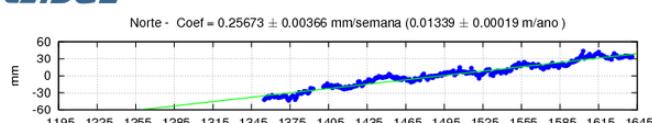


Altura - Coef = 0.0691 ± 0.00876 mm/semana (0.0036 ± 0.00046 m/ano)

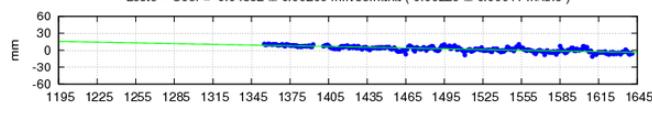


Semana GPS

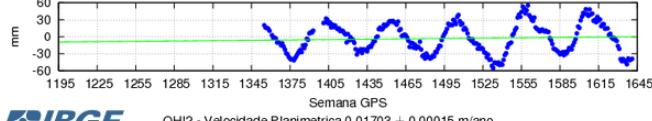
NAUS - Velocidade Planimetrica 0.01358 ± 0.00022 m/ano



Leste - Coef = -0.04382 ± 0.00206 mm/semana (-0.00229 ± 0.00011 m/ano)

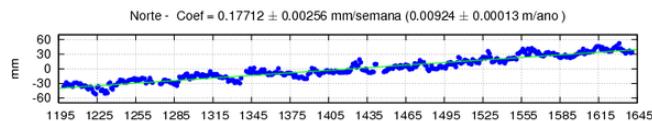


Altura - Coef = 0.02099 ± 0.01895 mm/semana (0.00109 ± 0.00099 m/ano)

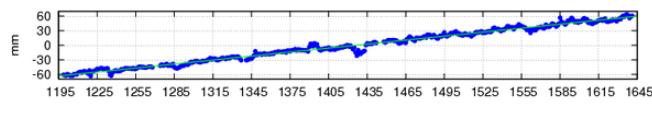


Semana GPS

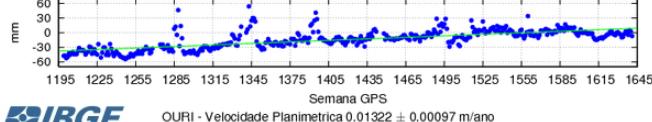
OHI2 - Velocidade Planimetrica 0.01703 ± 0.00015 m/ano



Leste - Coef = 0.27451 ± 0.00138 mm/semana ($0.01431 \pm 7e-05$ m/ano)

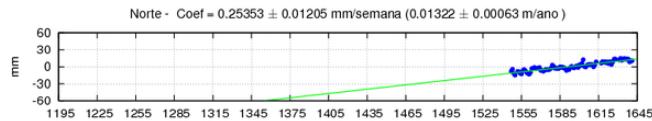


Altura - Coef = 0.10563 ± 0.00456 mm/semana (0.00551 ± 0.00024 m/ano)

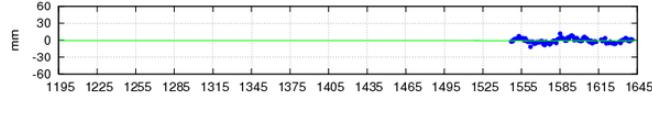


Semana GPS

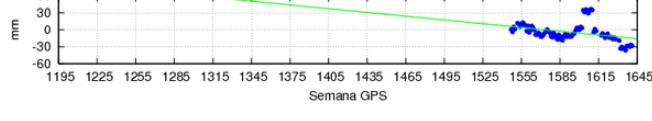
OUIR - Velocidade Planimetrica 0.01322 ± 0.00097 m/ano



Leste - Coef = -0.00092 ± 0.0142 mm/semana ($-5e-05 \pm 0.00074$ m/ano)



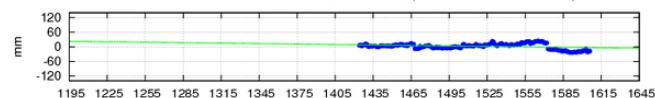
Altura - Coef = -0.22195 ± 0.04921 mm/semana (-0.01157 ± 0.00257 m/ano)



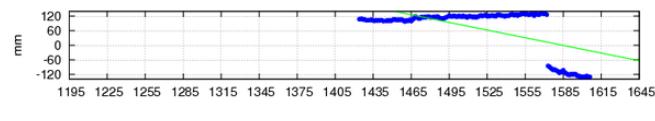
Semana GPS

MZAS - Velocidade Planimetrica 0.05506 ± 0.00608 m/ano

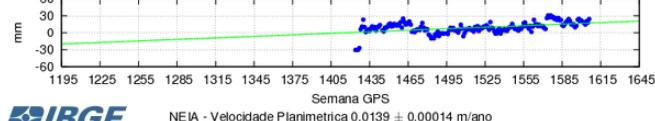
Norte - Coef = -0.6414 ± 0.01652 mm/semana (-0.00334 ± 0.00086 m/ano)



Leste - Coef = -1.05408 ± 0.11547 mm/semana (-0.05496 ± 0.00602 m/ano)

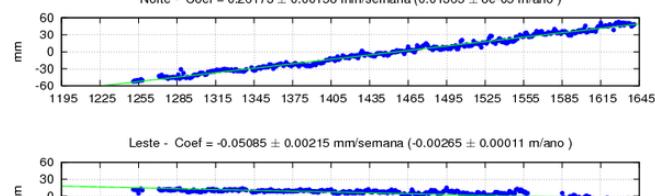


Altura - Coef = 0.09051 ± 0.015 mm/semana (0.00472 ± 0.00078 m/ano)

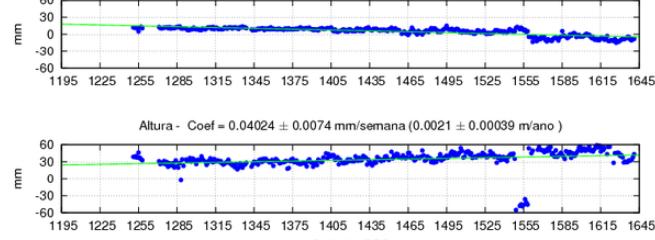


NEIA - Velocidade Planimetrica 0.0139 ± 0.00014 m/ano

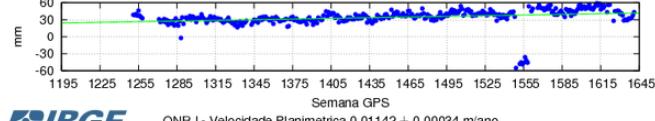
Norte - Coef = 0.26173 ± 0.00158 mm/semana ($0.01365 \pm 8e-05$ m/ano)



Leste - Coef = -0.05085 ± 0.00215 mm/semana (-0.00265 ± 0.00011 m/ano)

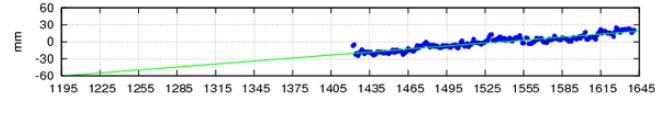


Altura - Coef = 0.04024 ± 0.0074 mm/semana (0.0021 ± 0.00039 m/ano)

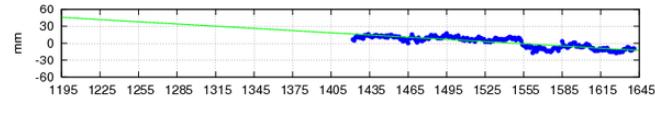


ONRJ - Velocidade Planimetrica 0.01142 ± 0.00034 m/ano

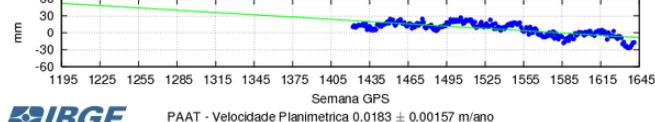
Norte - Coef = 0.17613 ± 0.00481 mm/semana (0.00918 ± 0.00025 m/ano)



Leste - Coef = -0.13028 ± 0.00449 mm/semana (-0.00679 ± 0.00023 m/ano)

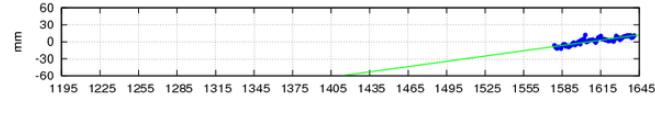


Altura - Coef = -0.13469 ± 0.00888 mm/semana (-0.00702 ± 0.00046 m/ano)

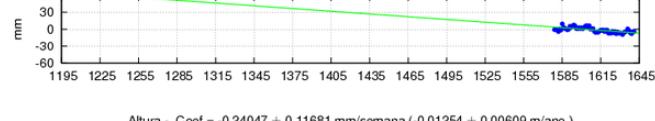


PAAT - Velocidade Planimetrica 0.0183 ± 0.00157 m/ano

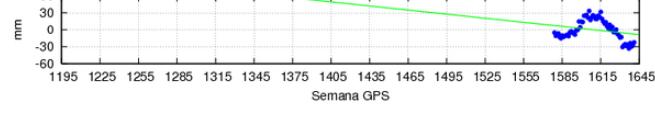
Norte - Coef = 0.3117 ± 0.018 mm/semana (0.01625 ± 0.00094 m/ano)

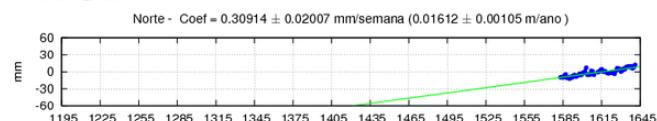
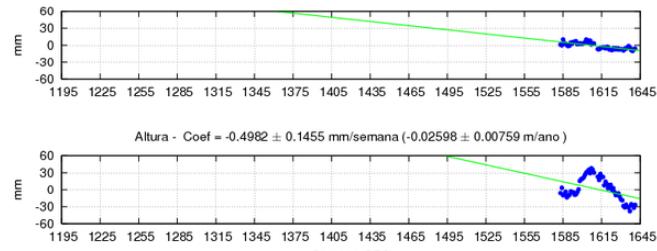


Leste - Coef = -0.16119 ± 0.02425 mm/semana (-0.0084 ± 0.00126 m/ano)

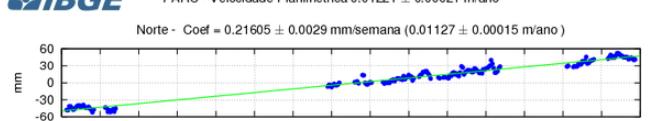
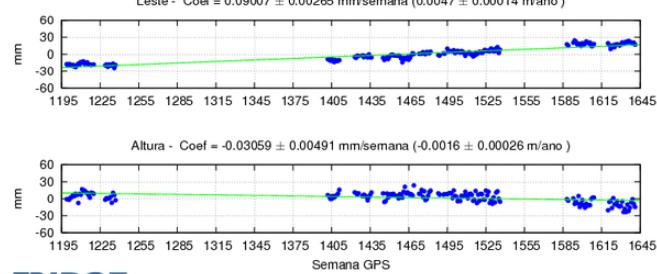


Altura - Coef = -0.24047 ± 0.11681 mm/semana (-0.01254 ± 0.00609 m/ano)

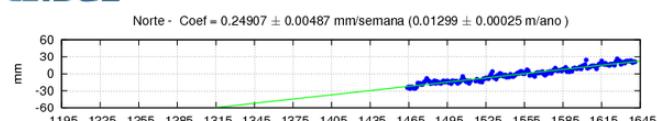
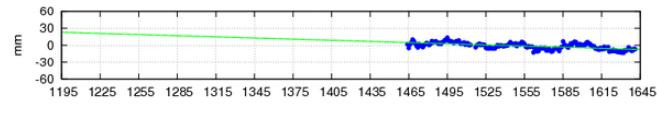
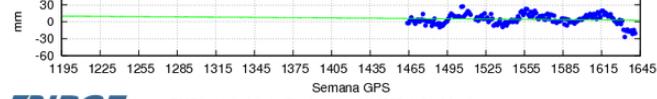


PAIT - Velocidade Planimetrica 0.02056 ± 0.00173 m/ano

 Leste - Coef = -0.2449 ± 0.0265 mm/semana (-0.01277 ± 0.00138 m/ano)


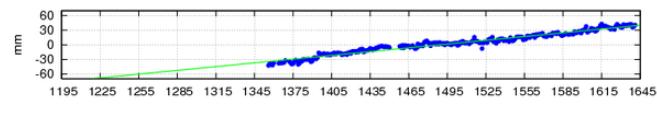
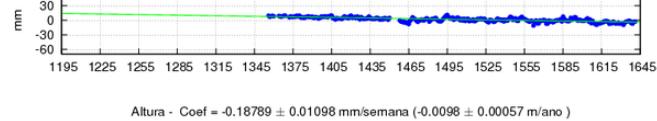
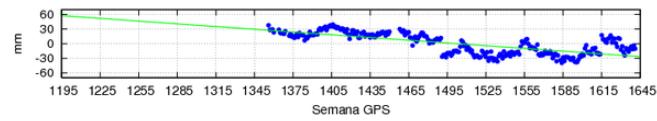
Semana GPS

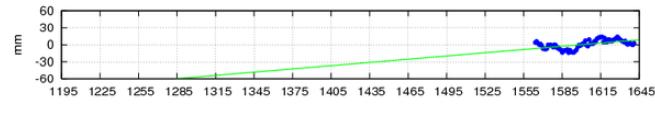
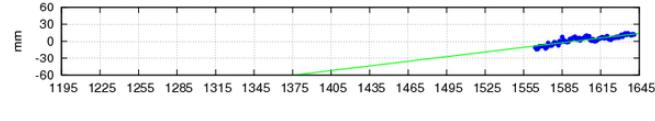
 PARC - Velocidade Planimetrica 0.01221 ± 0.00021 m/ano

 Leste - Coef = 0.09007 ± 0.00265 mm/semana (0.0047 ± 0.00014 m/ano)


Semana GPS

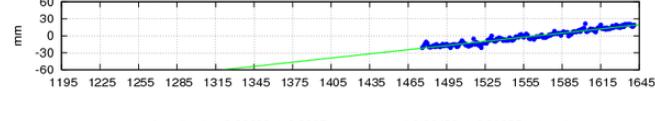
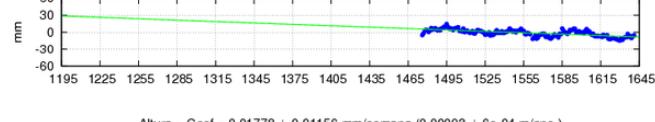
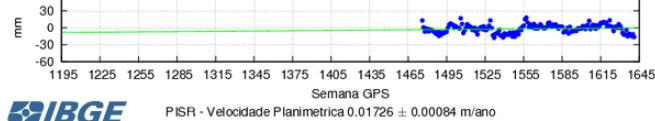
 PEPE - Velocidade Planimetrica 0.01346 ± 0.00041 m/ano

 Leste - Coef = -0.06794 ± 0.00619 mm/semana (-0.00354 ± 0.00032 m/ano)

 Altura - Coef = -0.01625 ± 0.01521 mm/semana (-0.00085 ± 0.00079 m/ano)


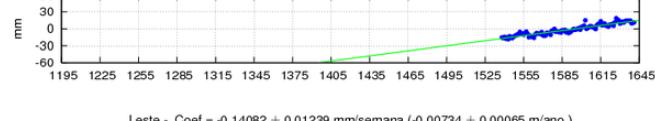
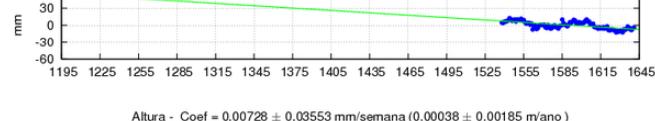
Semana GPS

 PMB1 - Velocidade Planimetrica $0.01366 \pm 2e-04$ m/ano

 Leste - Coef = -0.0408 ± 0.00194 mm/semana ($-0.00213 \pm 1e-04$ m/ano)

 Altura - Coef = -0.18789 ± 0.01098 mm/semana (-0.0098 ± 0.00057 m/ano)

 PALM - Velocidade Planimetrica 0.01742 ± 0.00188 m/ano

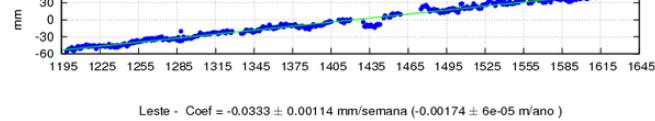
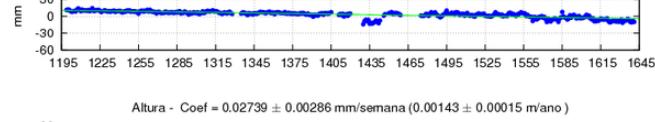
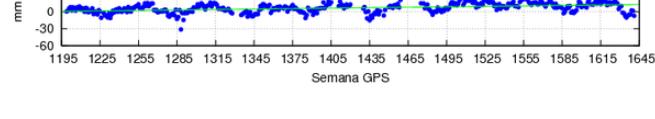
 Norte - Coef = 0.1906 ± 0.03217 mm/semana (0.00994 ± 0.00168 m/ano)

 Leste - Coef = 0.27439 ± 0.01623 mm/semana (0.01431 ± 0.00085 m/ano)

 Altura - Coef = -0.1088 ± 0.03146 mm/semana (-0.00567 ± 0.00164 m/ano)

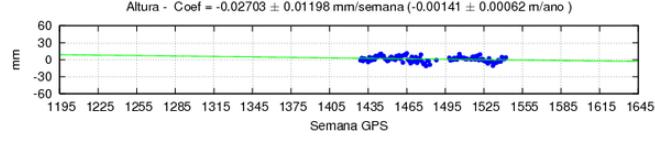
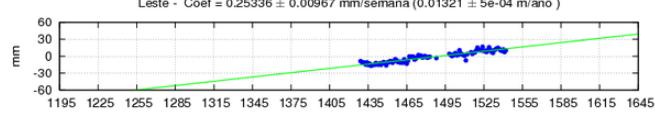
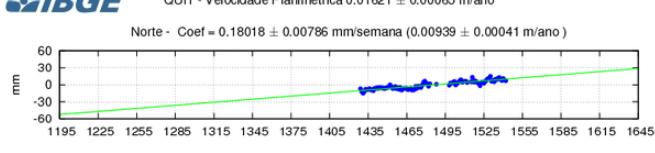
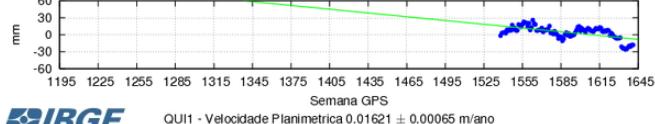
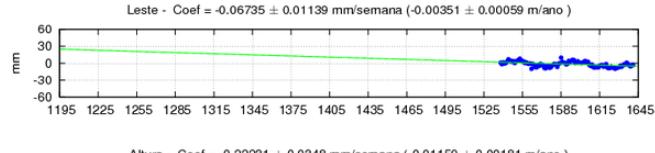
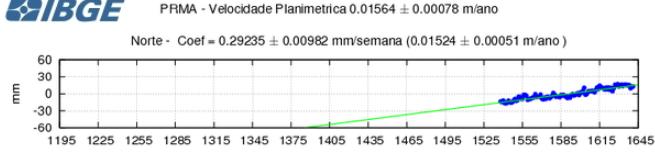
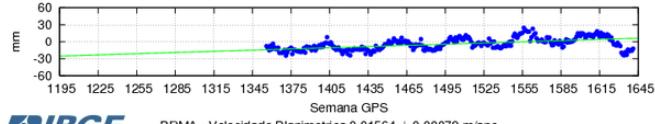
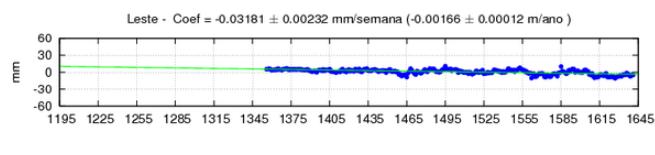
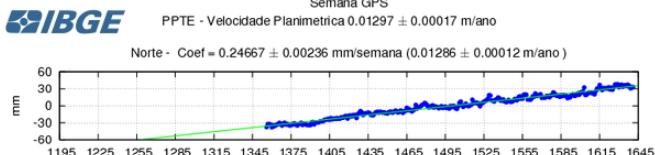
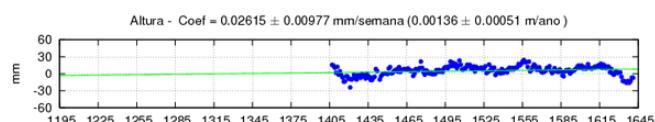
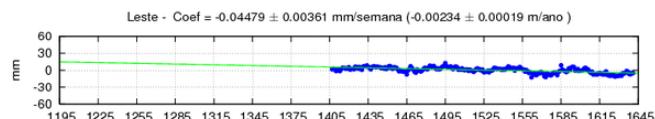
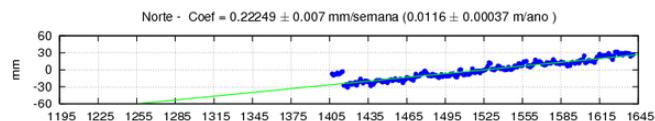
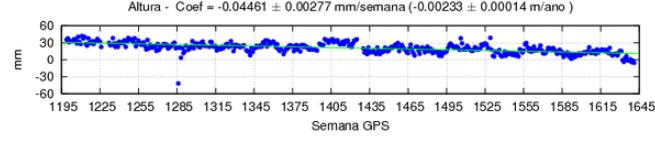
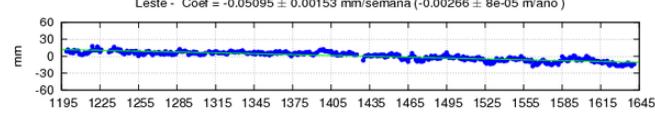
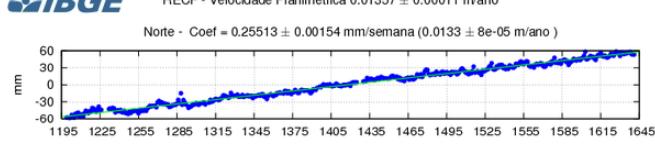
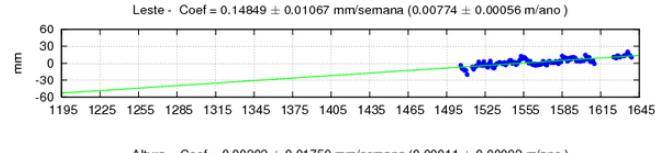
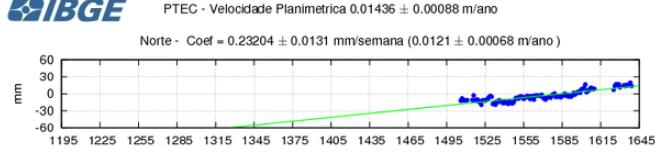
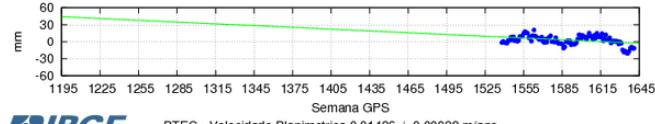
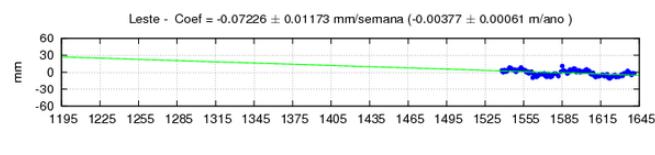
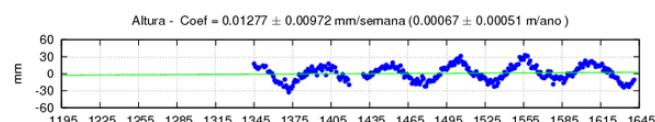
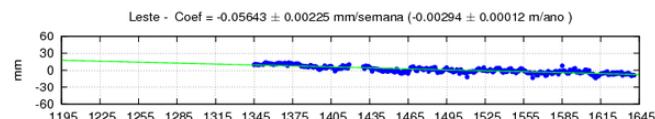
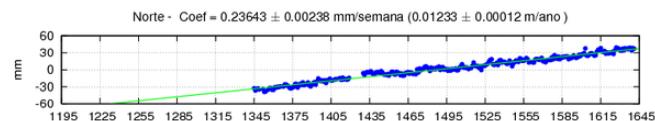
 PBCG - Velocidade Planimetrica 0.0135 ± 0.00044 m/ano

 Norte - Coef = 0.24526 ± 0.00507 mm/semana (0.01279 ± 0.00026 m/ano)

 Leste - Coef = -0.08309 ± 0.0067 mm/semana (-0.00433 ± 0.00035 m/ano)

 Altura - Coef = 0.01778 ± 0.01156 mm/semana ($0.00093 \pm 6e-04$ m/ano)

 PI SR - Velocidade Planimetrica 0.01726 ± 0.00084 m/ano

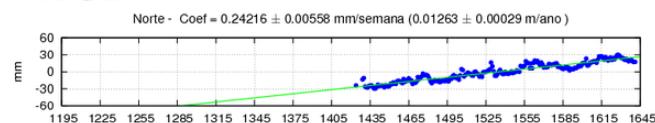
 Norte - Coef = 0.29967 ± 0.01032 mm/semana (0.01563 ± 0.00054 m/ano)

 Leste - Coef = -0.14082 ± 0.01239 mm/semana (-0.00734 ± 0.00065 m/ano)

 Altura - Coef = 0.00728 ± 0.03553 mm/semana (0.00038 ± 0.00185 m/ano)

 POAL - Velocidade Planimetrica $0.01245 \pm 9e-05$ m/ano

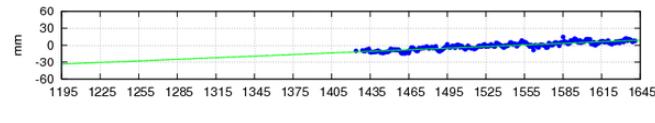
 Norte - Coef = 0.23644 ± 0.00131 mm/semana ($0.01233 \pm 7e-05$ m/ano)

 Leste - Coef = -0.0333 ± 0.00114 mm/semana ($-0.00174 \pm 6e-05$ m/ano)

 Altura - Coef = 0.02739 ± 0.00286 mm/semana (0.00143 ± 0.00015 m/ano)


POLI - Velocidade Planimetrica 0.01183 ± 0.00041 m/ano

 POVE - Velocidade Planimetrica 0.01267 ± 0.00017 m/ano


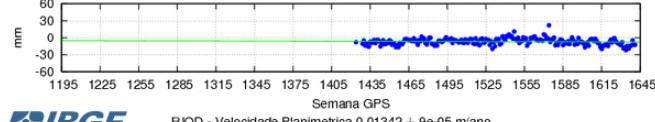
RIO2 - Velocidade Planimetrica 0.01356 ± 0.00033 m/ano



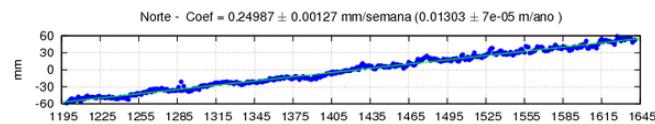
Leste - Coef = 0.09479 ± 0.0031 mm/semana (0.00494 ± 0.00016 m/ano)



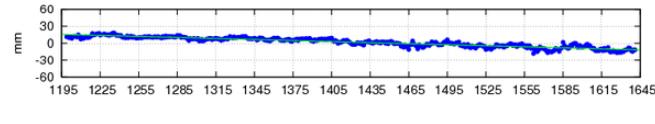
Altura - Coef = -0.00558 ± 0.00593 mm/semana (-0.00029 ± 0.00031 m/ano)



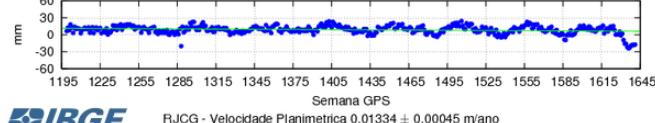
RIOD - Velocidade Planimetrica $0.01342 \pm 9e-05$ m/ano



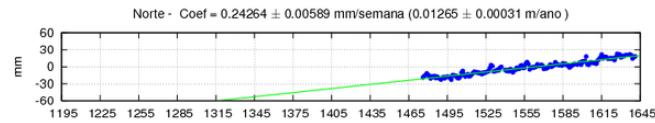
Leste - Coef = -0.06149 ± 0.00129 mm/semana ($-0.00321 \pm 7e-05$ m/ano)



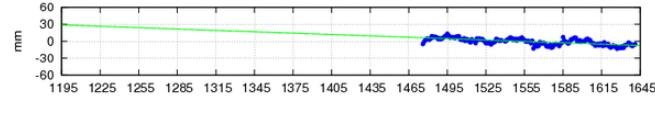
Altura - Coef = -0.01235 ± 0.0031 mm/semana (-0.00064 ± 0.00016 m/ano)



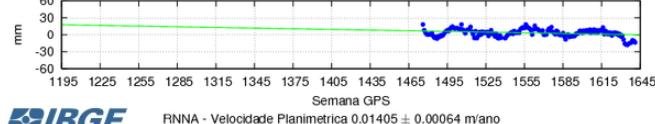
RJCG - Velocidade Planimetrica 0.01334 ± 0.00045 m/ano



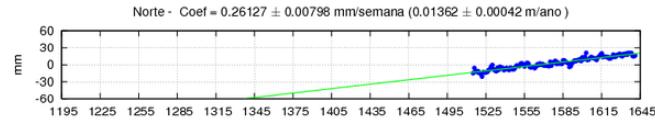
Leste - Coef = -0.08132 ± 0.00618 mm/semana (-0.00424 ± 0.00032 m/ano)



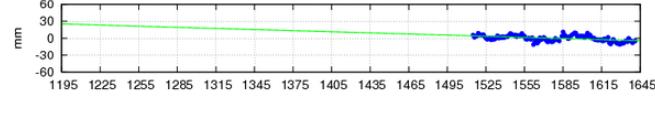
Altura - Coef = -0.04042 ± 0.01279 mm/semana (-0.00211 ± 0.00067 m/ano)



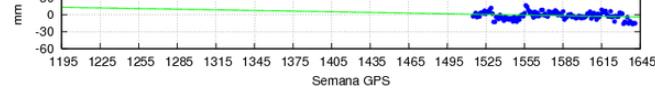
RNNA - Velocidade Planimetrica 0.01405 ± 0.00064 m/ano



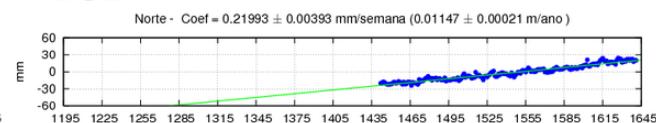
Leste - Coef = -0.06629 ± 0.0093 mm/semana (-0.00346 ± 0.00048 m/ano)



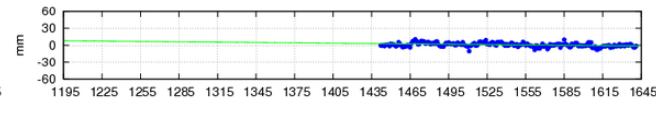
Altura - Coef = -0.039 ± 0.01718 mm/semana ($-0.00203 \pm 9e-04$ m/ano)



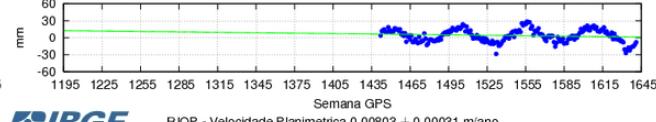
RIOB - Velocidade Planimetrica 0.01152 ± 0.00028 m/ano



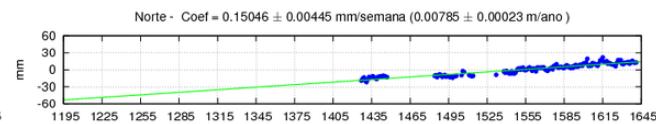
Leste - Coef = -0.02038 ± 0.00373 mm/semana (-0.00106 ± 0.00019 m/ano)



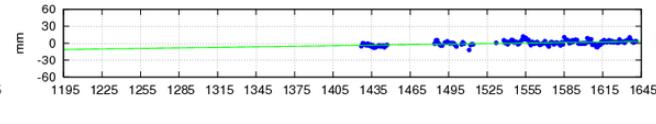
Altura - Coef = -0.02583 ± 0.01399 mm/semana (-0.00135 ± 0.00073 m/ano)



RIOP - Velocidade Planimetrica 0.00803 ± 0.00031 m/ano



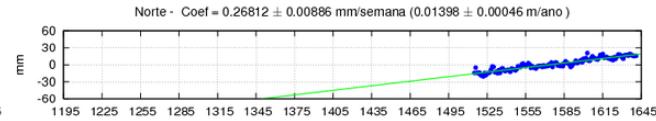
Leste - Coef = 0.0326 ± 0.0038 mm/semana ($0.0017 \pm 2e-04$ m/ano)



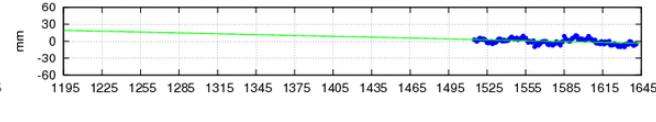
Altura - Coef = -0.08803 ± 0.00913 mm/semana (-0.00459 ± 0.00048 m/ano)



RNMO - Velocidade Planimetrica 0.01423 ± 0.00064 m/ano



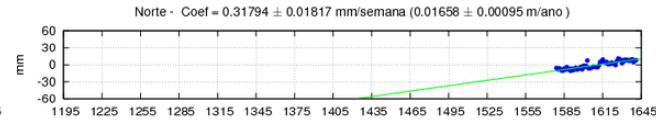
Leste - Coef = -0.0514 ± 0.00863 mm/semana (-0.00268 ± 0.00045 m/ano)



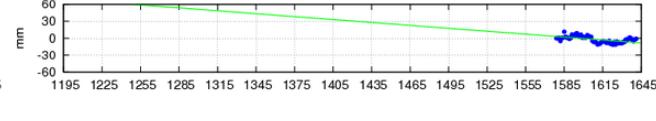
Altura - Coef = -0.1002 ± 0.02123 mm/semana (-0.00522 ± 0.00111 m/ano)



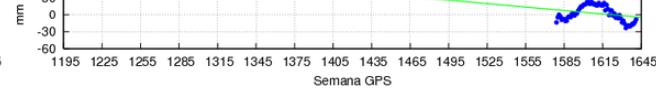
ROCD - Velocidade Planimetrica 0.01885 ± 0.00194 m/ano

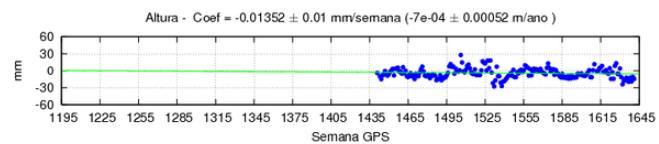
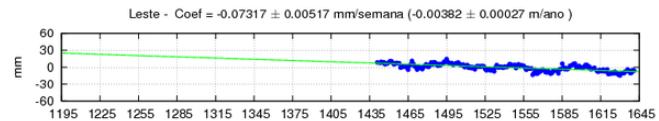
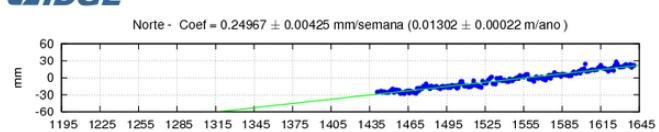
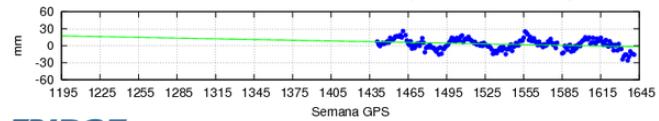
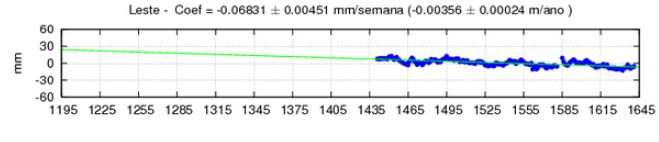
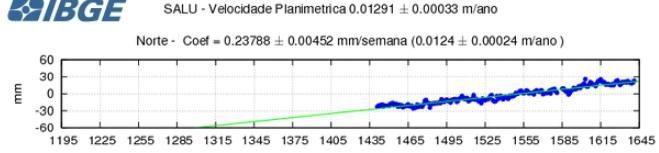
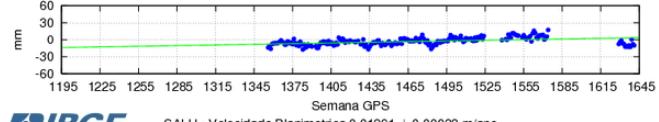
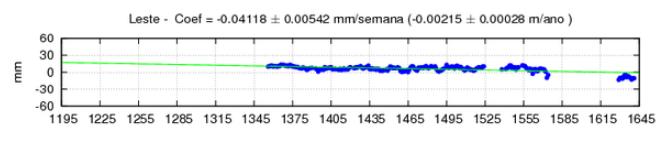
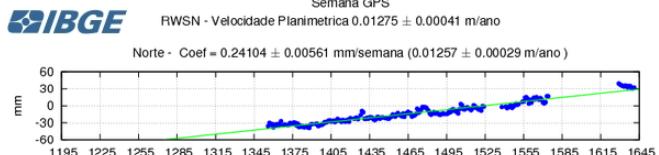
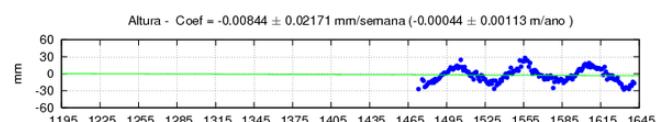
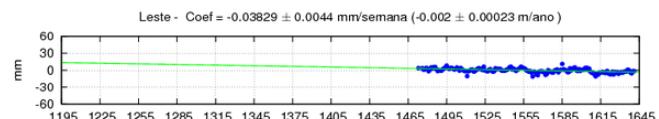
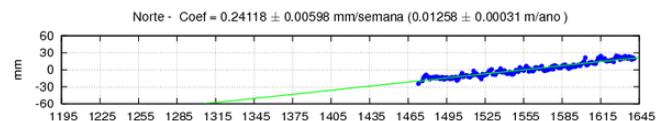
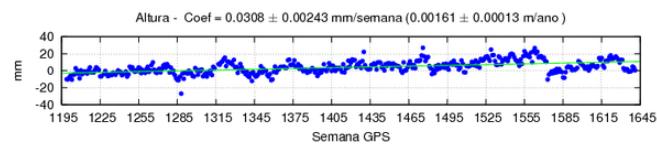
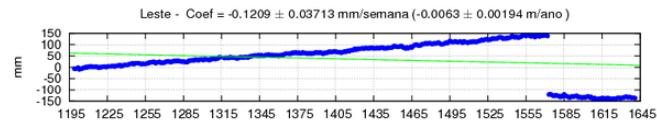
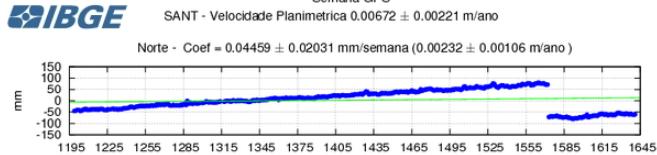
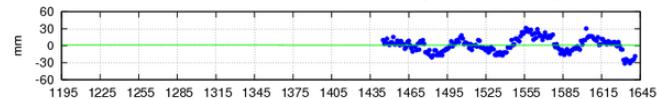
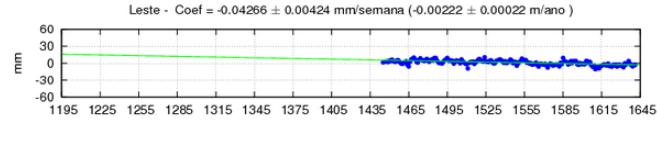
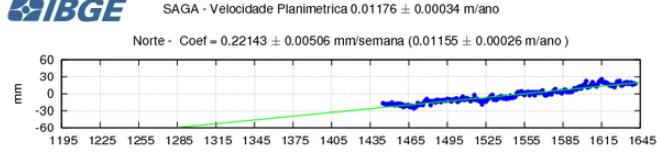
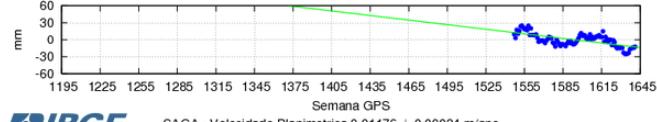
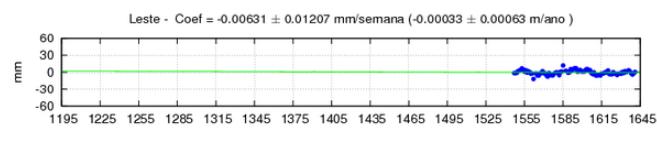
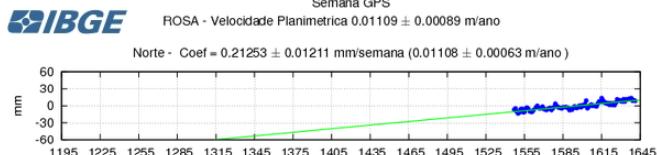
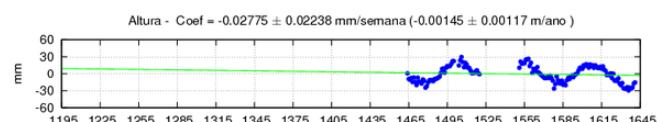
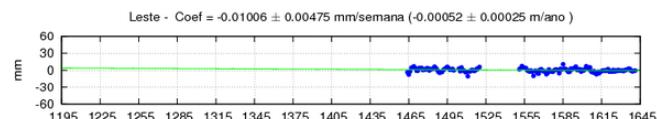
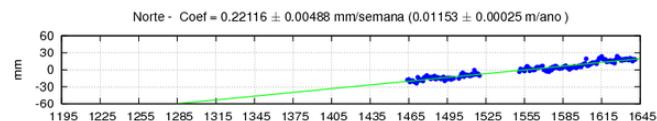


Leste - Coef = -0.17209 ± 0.03248 mm/semana (-0.00897 ± 0.00169 m/ano)



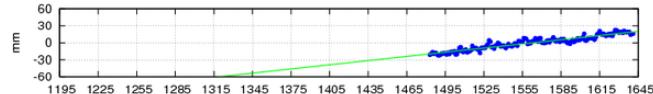
Altura - Coef = -0.20427 ± 0.09274 mm/semana (-0.01065 ± 0.00484 m/ano)



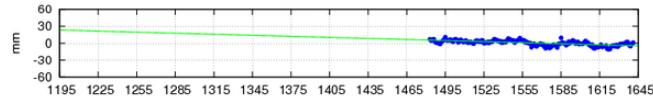


SCCH - Velocidade Planimetrica 0.01323 ± 0.00042 m/ano

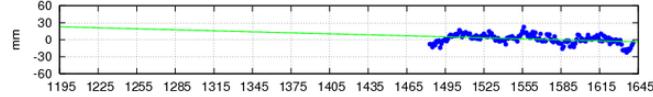
Norte - Coef = 0.24584 ± 0.00574 mm/semana ($0.01282 \pm 3e-04$ m/ano)



Leste - Coef = -0.06244 ± 0.00571 mm/semana ($-0.00326 \pm 3e-04$ m/ano)

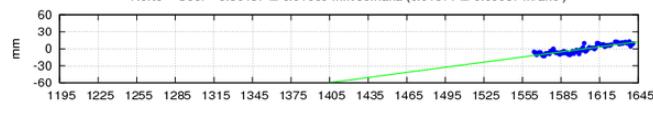


Altura - Coef = -0.05957 ± 0.01506 mm/semana (-0.00311 ± 0.00079 m/ano)

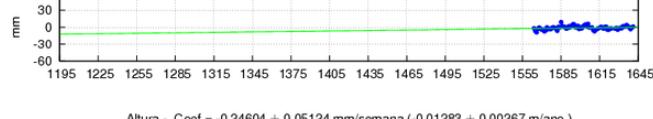


SCRZ - Velocidade Planimetrica 0.01578 ± 0.00116 m/ano

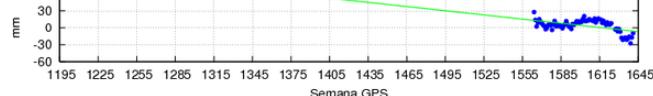
Norte - Coef = 0.30137 ± 0.01669 mm/semana (0.01571 ± 0.00087 m/ano)



Leste - Coef = 0.02782 ± 0.01473 mm/semana (0.00145 ± 0.00077 m/ano)

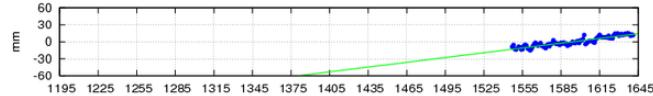


Altura - Coef = -0.24604 ± 0.05124 mm/semana (-0.01283 ± 0.00267 m/ano)

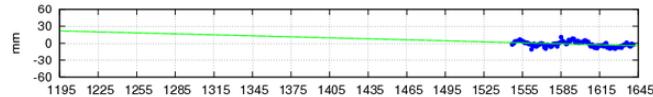


SJRP - Velocidade Planimetrica 0.01501 ± 0.00091 m/ano

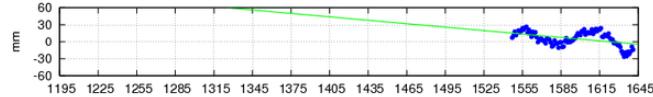
Norte - Coef = 0.28166 ± 0.01188 mm/semana (0.01469 ± 0.00062 m/ano)



Leste - Coef = -0.059 ± 0.01281 mm/semana (-0.00308 ± 0.00067 m/ano)

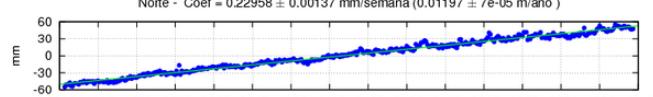


Altura - Coef = -0.20238 ± 0.04269 mm/semana (-0.01055 ± 0.00223 m/ano)

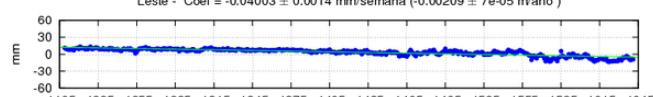


SMAR - Velocidade Planimetrica $0.01215 \pm 1e-04$ m/ano

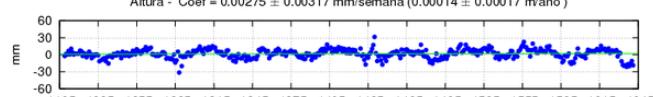
Norte - Coef = 0.22958 ± 0.00137 mm/semana ($0.01197 \pm 7e-05$ m/ano)



Leste - Coef = -0.04003 ± 0.0014 mm/semana ($-0.002209 \pm 7e-05$ m/ano)

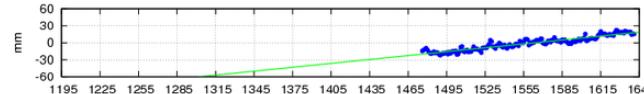


Altura - Coef = 0.00275 ± 0.00317 mm/semana (0.00014 ± 0.00017 m/ano)

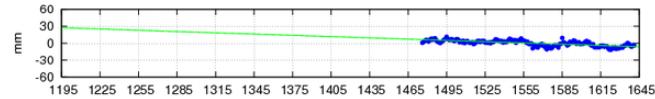


SCLA - Velocidade Planimetrica 0.0126 ± 0.00042 m/ano

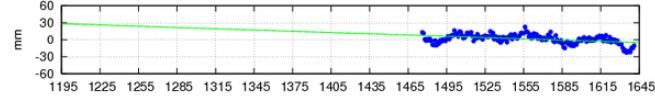
Norte - Coef = 0.2296 ± 0.00614 mm/semana (0.01197 ± 0.00032 m/ano)



Leste - Coef = -0.07512 ± 0.0052 mm/semana (-0.00392 ± 0.00027 m/ano)

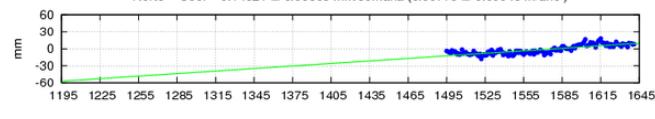


Altura - Coef = -0.07438 ± 0.01387 mm/semana (-0.00388 ± 0.00072 m/ano)

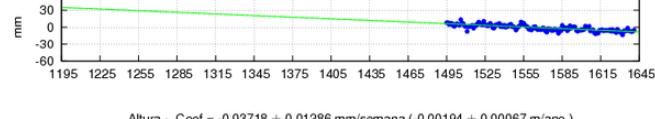


SCUB - Velocidade Planimetrica 0.00927 ± 0.00056 m/ano

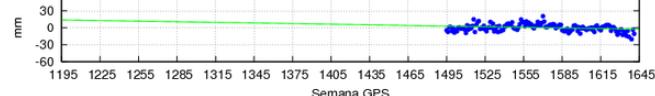
Norte - Coef = 0.14921 ± 0.00868 mm/semana (0.00778 ± 0.00045 m/ano)



Leste - Coef = -0.09667 ± 0.00633 mm/semana (-0.00504 ± 0.00033 m/ano)

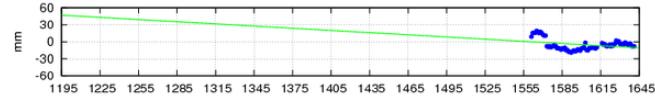


Altura - Coef = -0.03718 ± 0.01286 mm/semana (-0.00194 ± 0.00067 m/ano)

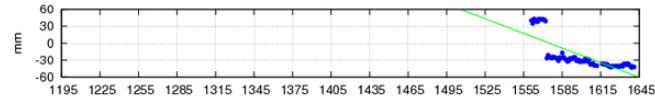


SL01 - Velocidade Planimetrica 0.04548 ± 0.00641 m/ano

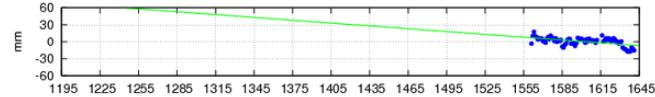
Norte - Coef = -0.12892 ± 0.005005 mm/semana (-0.00672 ± 0.00261 m/ano)



Leste - Coef = -0.86261 ± 0.11225 mm/semana (-0.04498 ± 0.00585 m/ano)

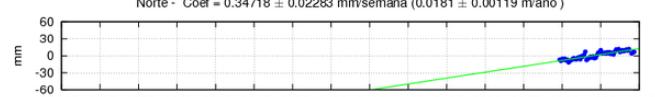


Altura - Coef = -0.1662 ± 0.03267 mm/semana (-0.00867 ± 0.0017 m/ano)

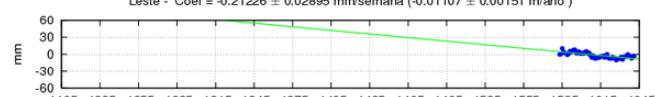


SPAR - Velocidade Planimetrica 0.02122 ± 0.00192 m/ano

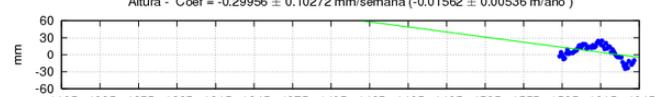
Norte - Coef = 0.34718 ± 0.02283 mm/semana (0.0181 ± 0.00119 m/ano)

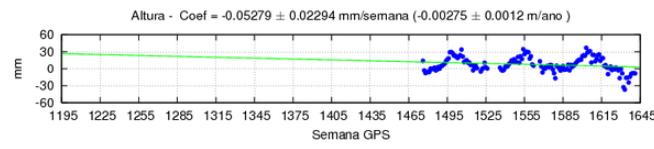
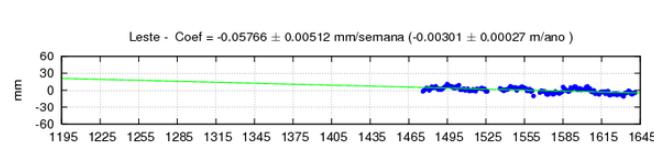
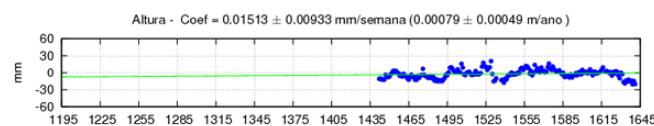
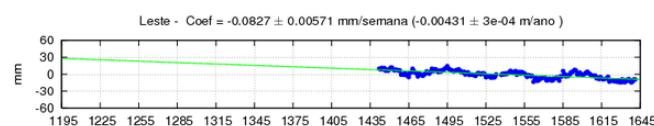
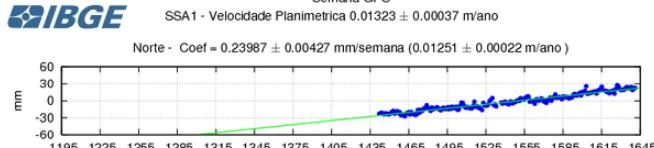
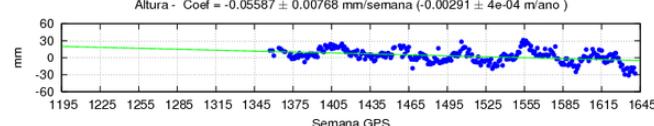
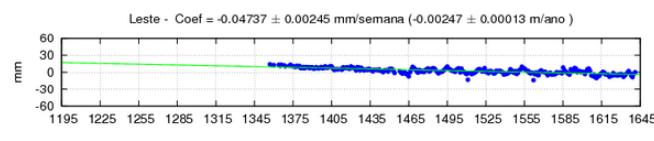
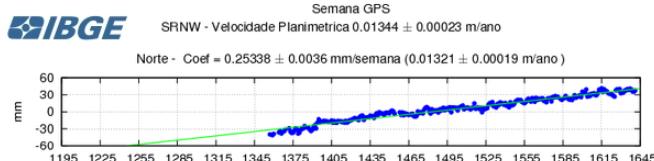
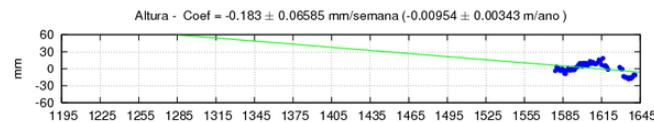
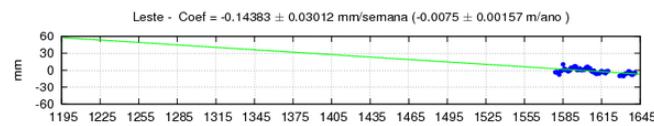
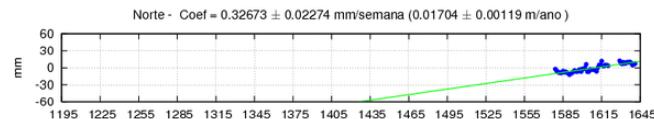


Leste - Coef = -0.21226 ± 0.02895 mm/semana (-0.01107 ± 0.00151 m/ano)

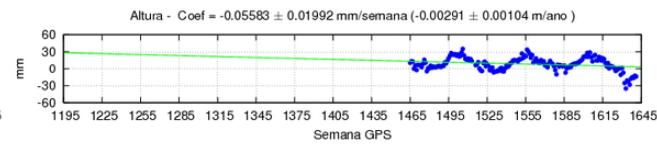
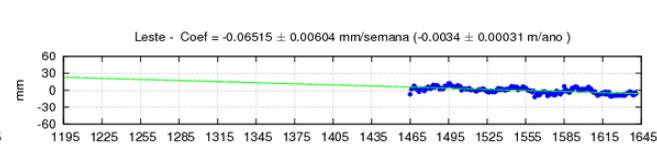
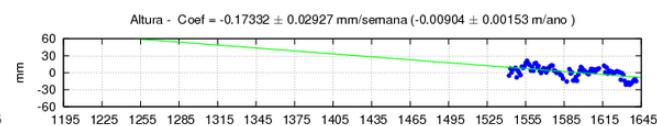
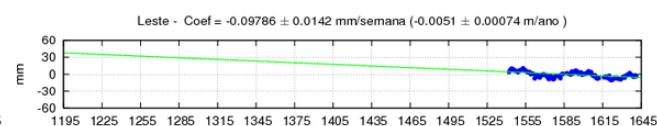
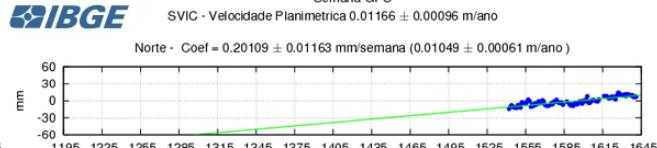
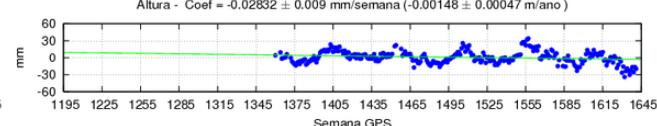
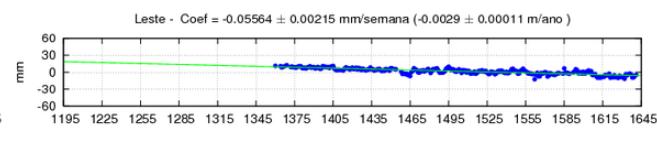
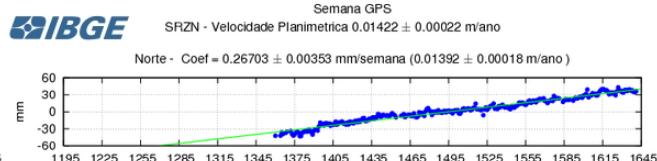
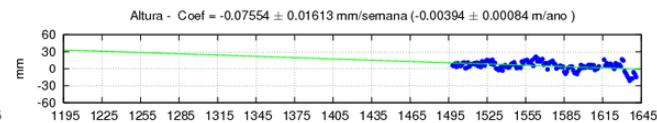
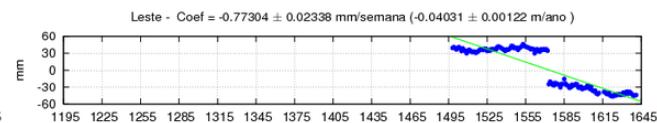
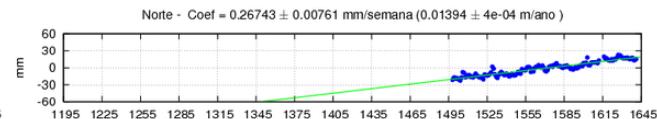


Altura - Coef = -0.29956 ± 0.10272 mm/semana (-0.01562 ± 0.00536 m/ano)

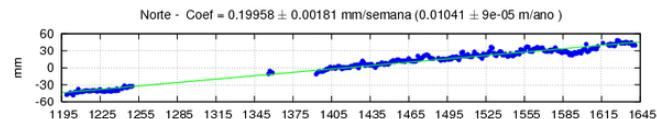


SPCA - Velocidade Planimetrica 0.01861 ± 0.00197 m/ano


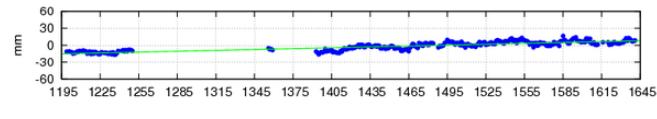
SRLP

 - Velocidade Planimetrica 0.04265 ± 0.00128 m/ano


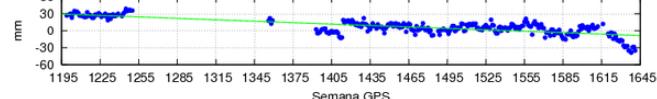
TUCU - Velocidade Planimetrica 0.01075 ± 0.00013 m/ano



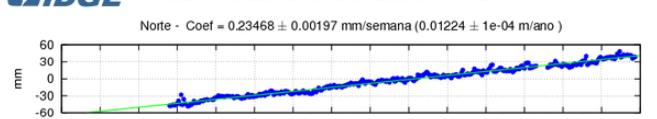
Leste - Coef = 0.05199 ± 0.00158 mm/semana ($0.00271 \pm 8e-05$ m/ano)



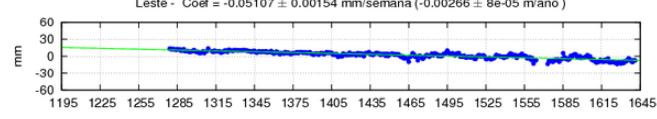
Altura - Coef = -0.08467 ± 0.00425 mm/semana (-0.00442 ± 0.00022 m/ano)



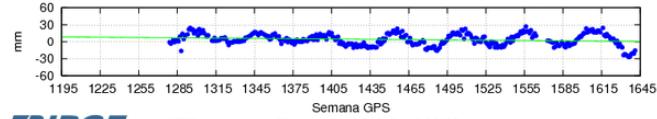
UBER - Velocidade Planimetrica 0.01252 ± 0.00013 m/ano



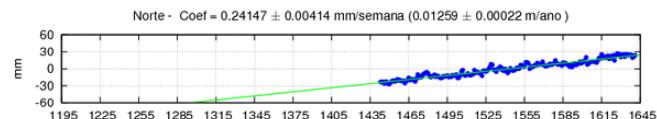
Leste - Coef = -0.05107 ± 0.00154 mm/semana ($-0.00266 \pm 8e-05$ m/ano)



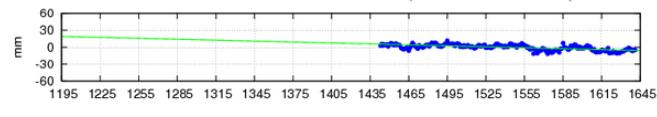
Altura - Coef = -0.0174 ± 0.0059 mm/semana (-0.00091 ± 0.00031 m/ano)



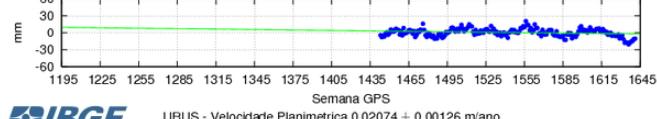
UFPR - Velocidade Planimetrica 0.01292 ± 0.00032 m/ano



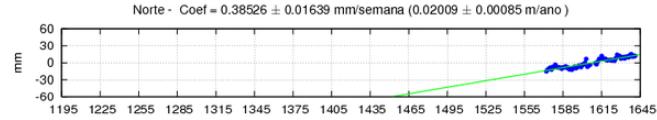
Leste - Coef = -0.05597 ± 0.00444 mm/semana (-0.00292 ± 0.00023 m/ano)



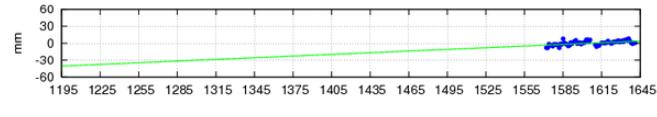
Altura - Coef = -0.02654 ± 0.0089 mm/semana (-0.00138 ± 0.00046 m/ano)



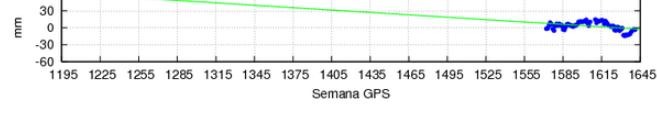
URUS - Velocidade Planimetrica 0.02074 ± 0.00126 m/ano



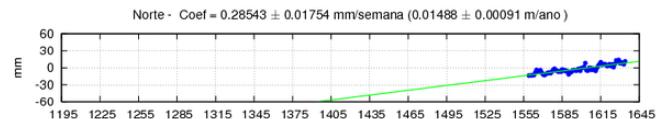
Leste - Coef = 0.09907 ± 0.01781 mm/semana (0.00517 ± 0.00093 m/ano)



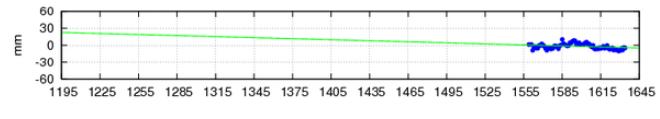
Altura - Coef = -0.14133 ± 0.04224 mm/semana (-0.00737 ± 0.0022 m/ano)



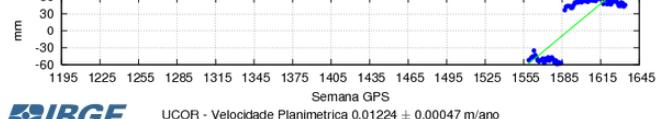
UBA1 - Velocidade Planimetrica 0.01522 ± 0.00145 m/ano



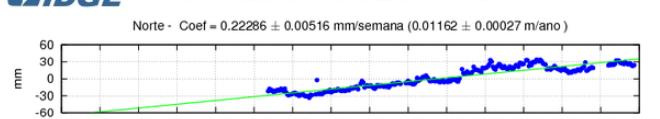
Leste - Coef = -0.06142 ± 0.0216 mm/semana (-0.0032 ± 0.00113 m/ano)



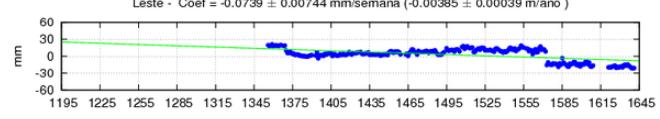
Altura - Coef = 1.8803 ± 0.12736 mm/semana (0.09804 ± 0.00664 m/ano)



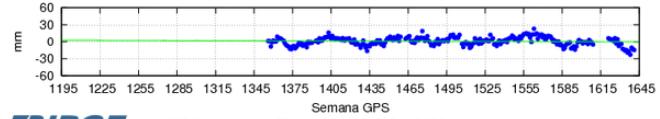
UCOR - Velocidade Planimetrica 0.01224 ± 0.00047 m/ano



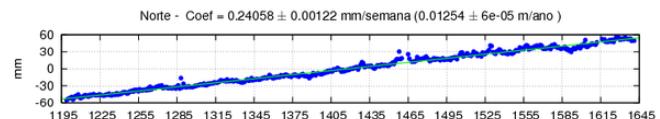
Leste - Coef = -0.0739 ± 0.00744 mm/semana (-0.00385 ± 0.00039 m/ano)



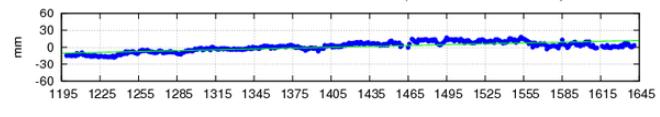
Altura - Coef = -0.00619 ± 0.00632 mm/semana (-0.00032 ± 0.00033 m/ano)



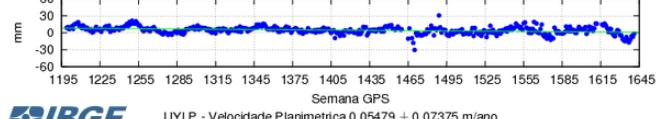
UNSA - Velocidade Planimetrica 0.01282 ± 0.00014 m/ano



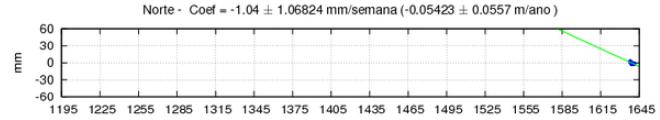
Leste - Coef = 0.05058 ± 0.0024 mm/semana (0.00264 ± 0.00012 m/ano)



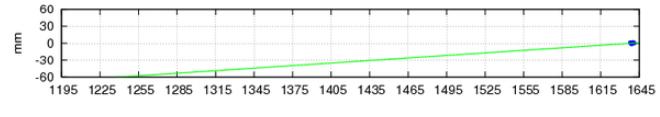
Altura - Coef = -0.01579 ± 0.00258 mm/semana (-0.00082 ± 0.00013 m/ano)



UYLP - Velocidade Planimetrica 0.05479 ± 0.07375 m/ano



Leste - Coef = 0.15 ± 0.9271 mm/semana (0.00782 ± 0.04834 m/ano)



Altura - Coef = 0.65 ± 3.79293 mm/semana (0.03389 ± 0.19777 m/ano)

