

IGS Network Issues 2004 - 2006

Update Since Bern, March 2004

Bob Twilley, Geoscience Australia Angelyn Moore, IGSCB/JPL

IGS Workshop Darmstadt, May 2006



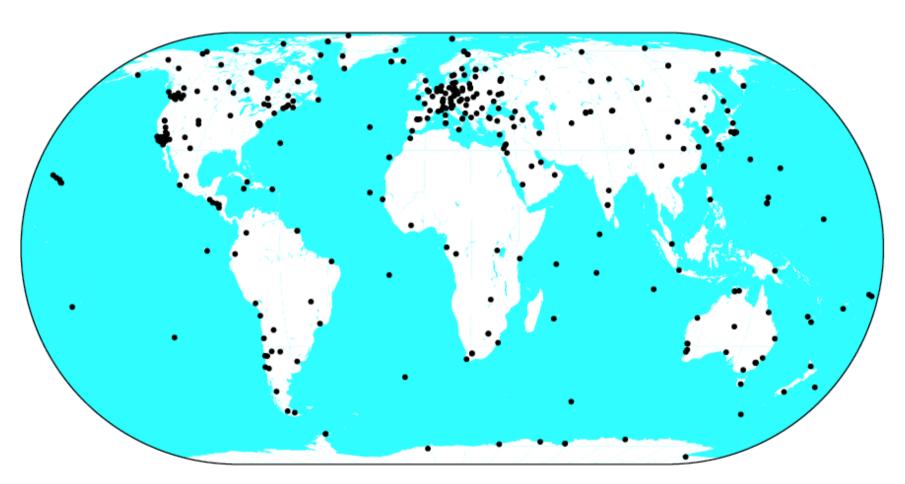
Network composition statistics:

	2004 (Berne)	2006
Total	364	379
Active	_	333
>3 AC (final)	127	165
Hourly	158	207
Hourly Ref. Frame	_	57
15min 1Hz	44	64
GLONASS	42	49

End of 2004: 385 stations; End of 2005: 379 stations. First decrease ever.

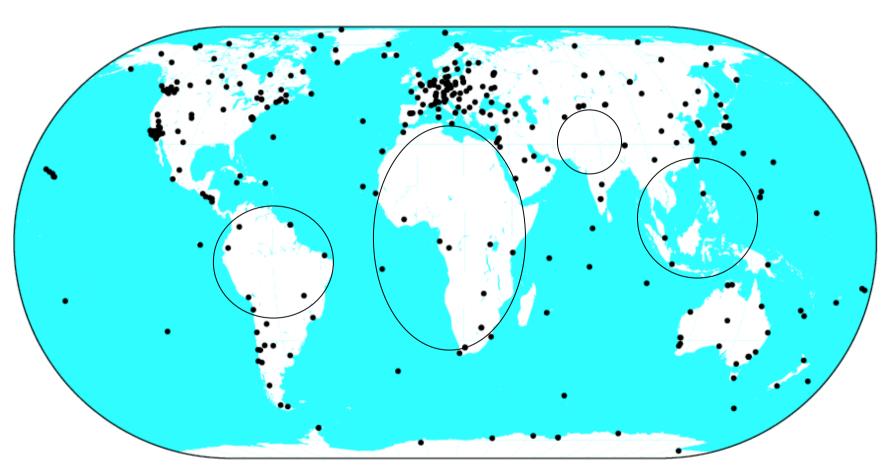


Current Network of 379 Stations



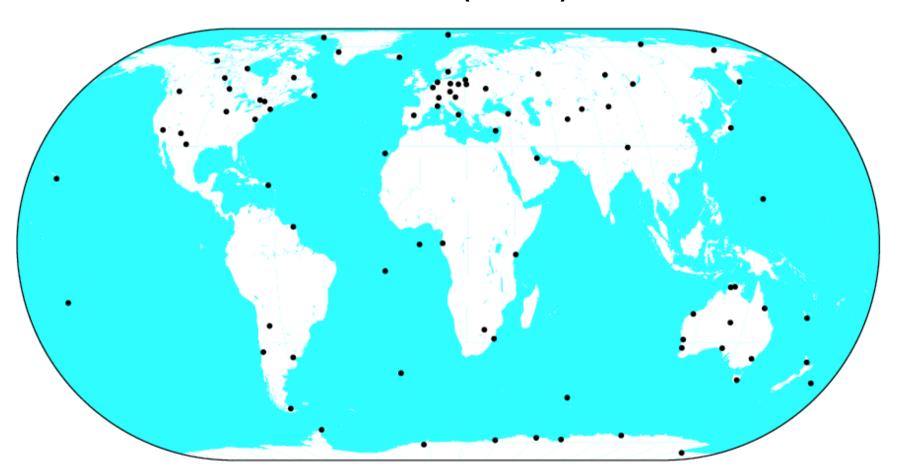


Large Areas Sparsely Covered





Reference Frame (IGb00) Stations



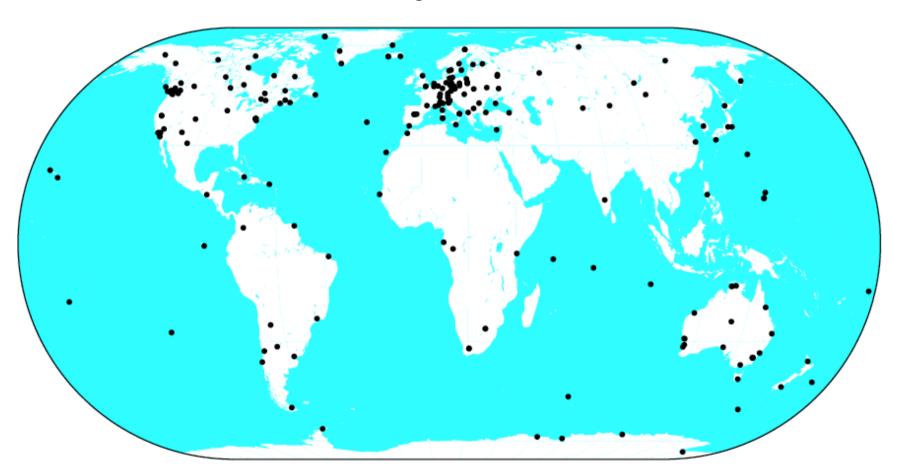


GLONASS stations (49)



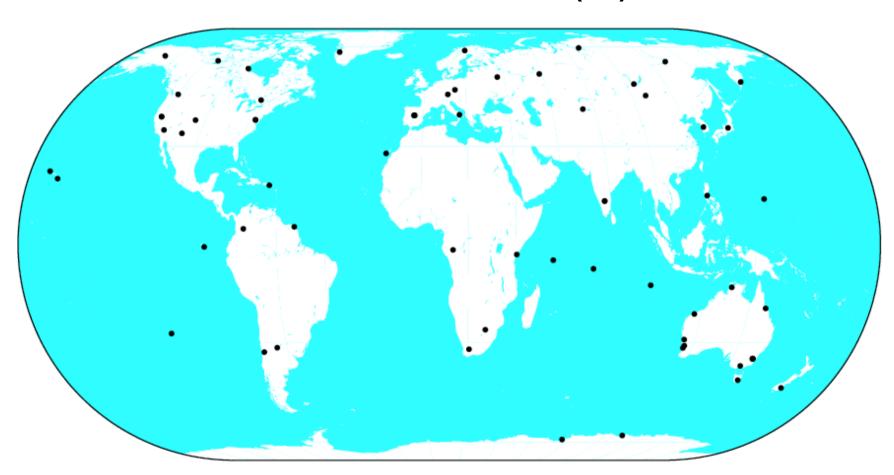


Hourly Stations





15min/1Hz Stations (64)





New sites since 2004

- 6 co-located with SLR and/or VLBI
- 8 with H-MASER or national timescales
- >3 GLONASS
- Many of the newest sites are not being analyzed regularly.
- Evidently there is a need for an Analysis Centre priority lists.
- 3 new stations have been offline essentially since they were proposed and added to the network.

 Very frustrating.



New sites 2004-2006

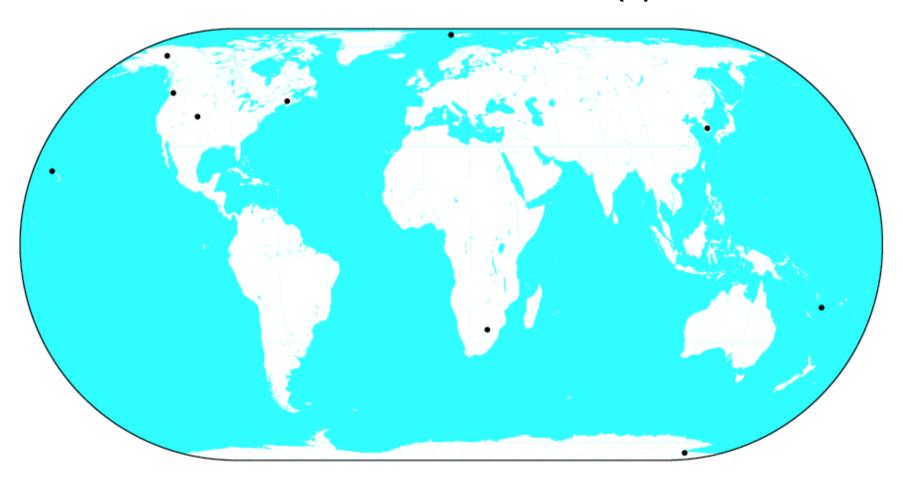


GM7 2008 May 3 17:49:13

Large circles= GLONASS



L2C demonstration (9)



GM77 2006 May 416:30:29

Thanks to those participating



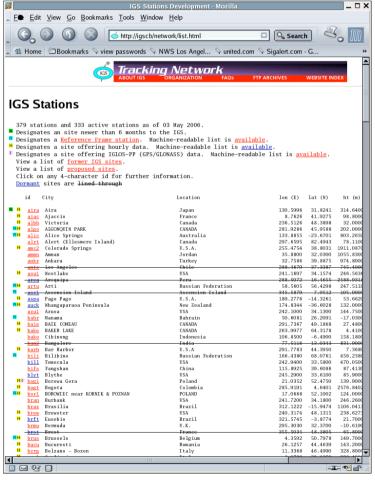
Some topics discussed at Berne 2004

- Site classification (Dormant/Active). Completed
- Metadata uniformity
 - Reprocessing topic progress is being made.
 Analysis priority lists are needed to assist with this.
- Site guidelines completed and agreed to.
 - EUREF, NGS, GA, (most likely others) have adopted IGS guidelines as standards with local modifications.
- Splitting of IGSMail into IGSStation & IGSMail
- Former sites should be added to SINEX template
 - Template history on only the current sites (since mid 2000)
 - pursuing 2 former sites identified as priority for reprocessing
 - Other old ones will follow as able



One completed classification

"Dormant" sites (>60 days with no data) are now highlighted (lowlighted?) on the www station lists



Site	days	Site	days
Ammn		Ineg	
Antc	768	Iqqe	196
Areq	76	Jama	970
Asc1	67	Kouc	
Ban2	139	Kstu	589
Brst	90	Kwj1	
Casa	157	Mald	108
Cfag	393	Mdvo	
Cic1	144	Nama	360
Соро	64	Nssp	170
Coyq		Obet	358
Davr	372	Osje	214
Dubr	139	Parc	954
Dyr2		Riop	
Esti		Roch	64
Gol2	482	Scip	233
Haly	359	Simo	796
Harv	78	Slor	
Holc	406	Sola	359

Site	days	
Suva		
Tgcv	968	
Valp		
Xian		
Yakz		
Ykro	586	
Zamb	395	
Zeck	198	

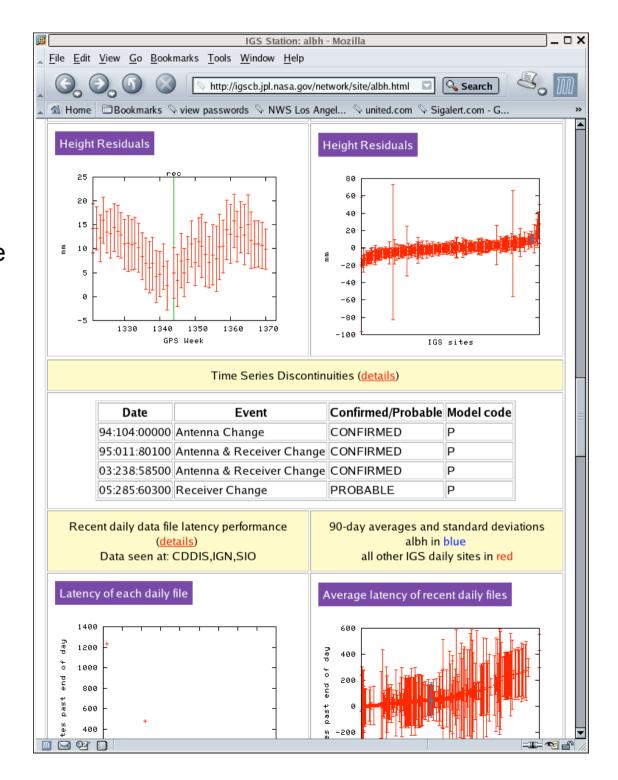


Suggested Previously:

Reference Frame coordinator's discontinuity information displayed on site web pages.

Not Offensive, infact helpful

If agreed upon here, this can be made public.





New station policy discussed at Berne 2004

- Change in **new** station policy was proposed and adopted:
 - AC must request a proposed site to be included.
- Resulting in lower number of sites being accepted.
 - In some cases sites have not been requested by an AC's due to "I thought it was obvious."
- Even with an AC request, important new sites not being analyzed regularly.
 Analysis priority list would be helpful.

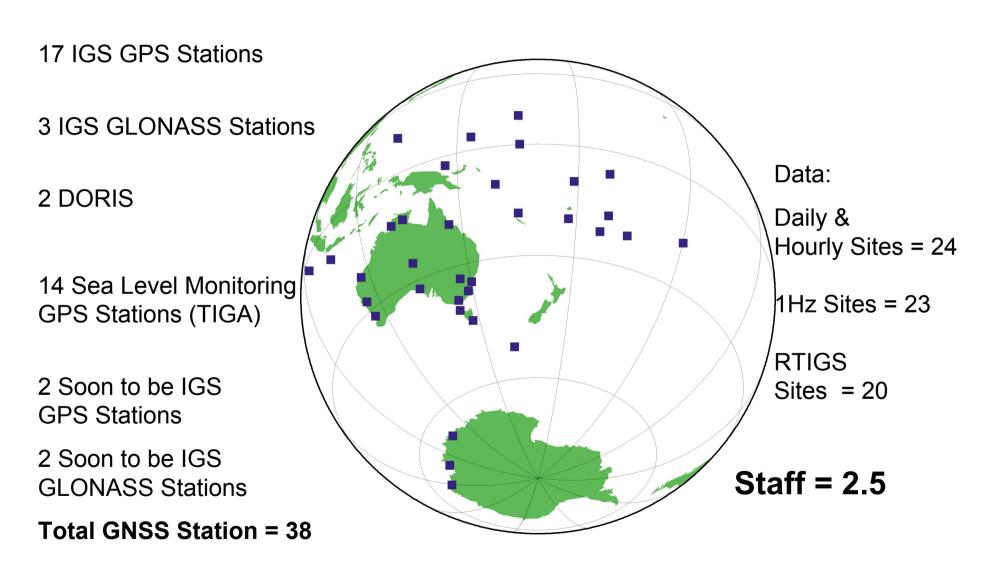


New station policy discussed at Berne 2004

- Procedure altered to remove some of the mechanics ie DOMES # request, rigorous site log & RINEX header consistency until AFTER the AC's request
 - Reduced the expectation that going through the motions will automatically result in addition to the IGS network.
- Pursuing the idea of relating an entire network to the IGS rather than potentially each site. Whole network could be reviewed and added.



IGS Network 2006 Australian Regional CORS Network





Regional Data Centre Issues

- Some regional networks cover a very large area.
- Some stations in very remote areas with no trained operators.
- Challenging communications systems.
- Staffing issues.
- Not easy to keep networks operational 24/7, when no organisation mandate to do so.
- Delayed responses to analysts concerns (email) on data quality or unavailability, unavoidable.
- Analysts need to provide information to Network Coordinators on issues of data quality and usability, not just "don't use it anymore".
- Analysts could provide useful information to regional network managers on equipment and site issues. RFT's, site maintenance.
- Regional networks need also to be included into IGS.
- THANK YOU