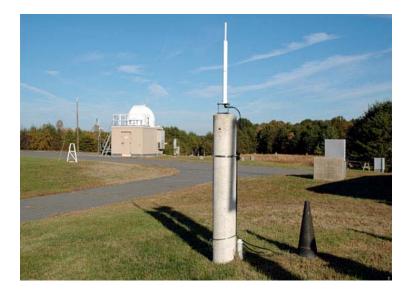




Frank Lemoine (NASA/GSFC)

Pascale Ferrage (CNES), Pascal Willis (IGN/IPGP), Laurent Soudarin (CLS), Hervé Fagard (IGN), Carey Noll (NASA/GSFC), John Ries (UT/CSR), Michiel Otten (ESA/ESOC), Jean-Jacques Valette (CLS), Philippe Yaya (CLS)







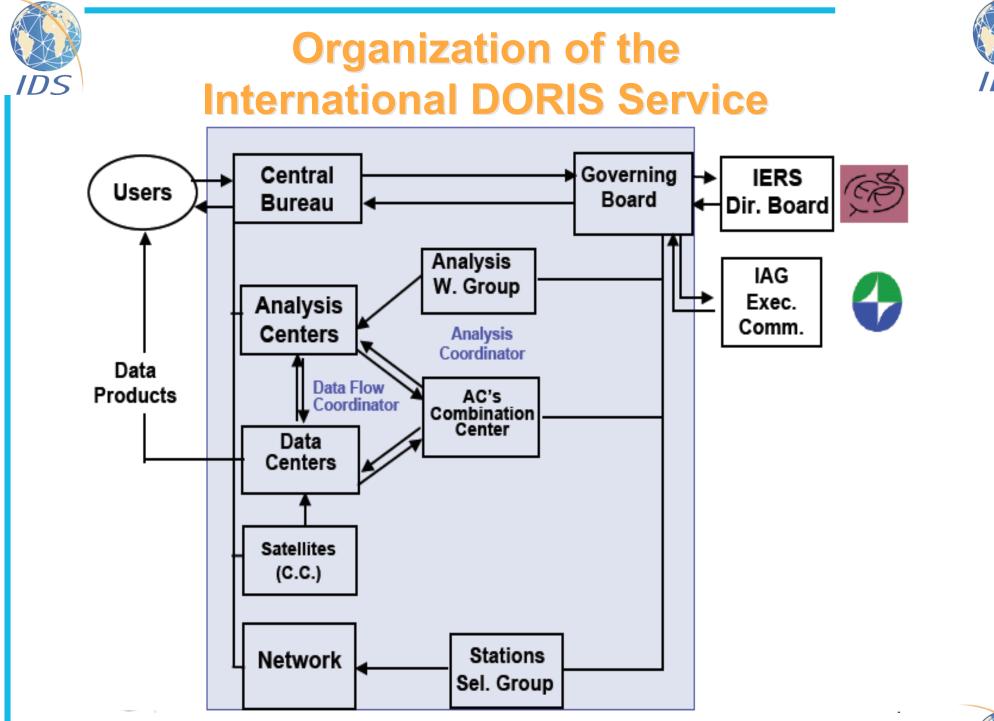
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IDS Analysis Centers

Contributed to ITRF2005 & ITRF2008

- IGN: Pascal Willis, (Gipsy, 1993-2008)
- LCA: Laurent Soudarin, (GINS, 1993-2008)
- INA: Sergei Kuzin, (Gipsy, 1993-2008)

Contributed to ITRF2008 (New Analysis Centers)

- GOP: Geodetic Observatory Pecny, Petr Stepanek, (Bernese, 1993-2008)
- ESA: ESOC, Michiel Otten, (NAPEOS, 1993-2008)
- GAU: Geoscience Australia, Ramesh Govind, (GEODYN, 2003-2008)
- GSC: NASA GSFC, Karine Le Bail & Frank Lemoine, (GEODYN, 2003-2008)

Candidate Analysis Centers

NCL: University of Newcastle, Phil. Moore





DORIS Ground Network

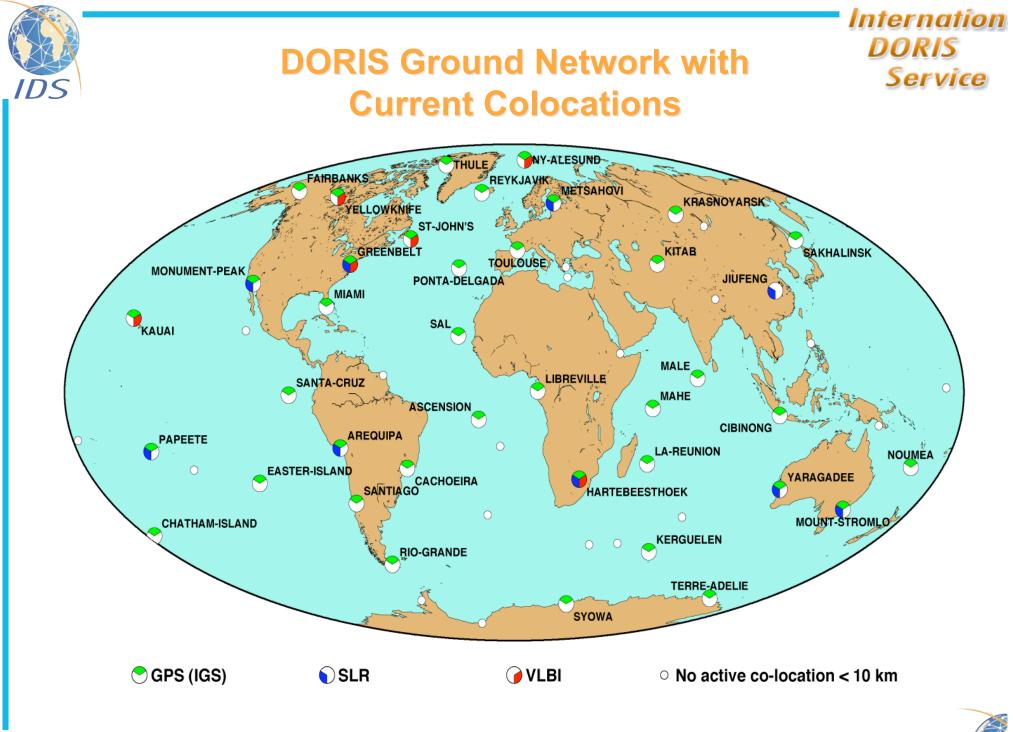




DORIS-VLBI Colocations: Greenbelt, Kauai, Hartebeesthoek, Ny Alesund, Syowa, Yellowknife, Fairbanks, St. John's, Metsahovi, Ponta Delgada, Santiago, Toulouse, (Goldstone), (Richmond)



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DORIS-VLBI Colocation Distances

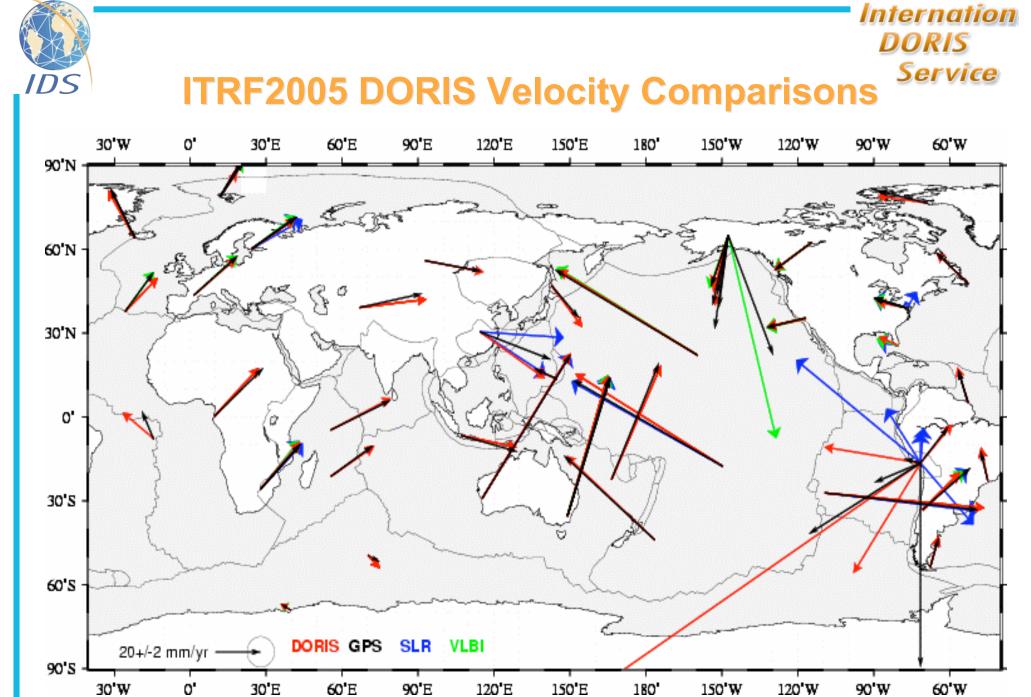
Greenbelt:	237 m	
Hartebeesthoek:	2200 m	
Kauai:	360 m	
Ny Alesund:	1475 m	
<u>Syowa:</u>	339 m	
Yellowknife:	64 m	
Fairbanks:	1165 m	
Metsahovi:	19 m	
Ponta Delgada		
Santiago:	206 m	
Saint John's:	88 m	
Toulouse	1070 m	
(Goldstone)	12.7 km	
(Richmond)	1200 m	



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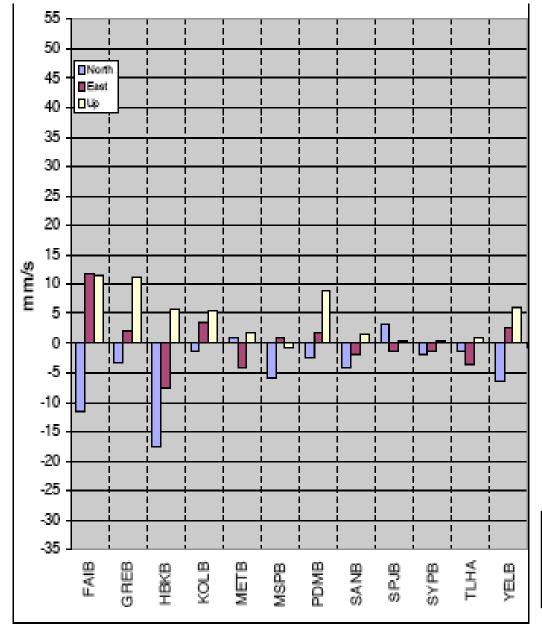


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Comparison of Velocities (example): IDS Combination vs ITRF2005 (VLBI)



<u>From:</u> Ph.Yaya, J.J. Valette, IDS Analysis Working Group Meeting: June 5-6, 2008.

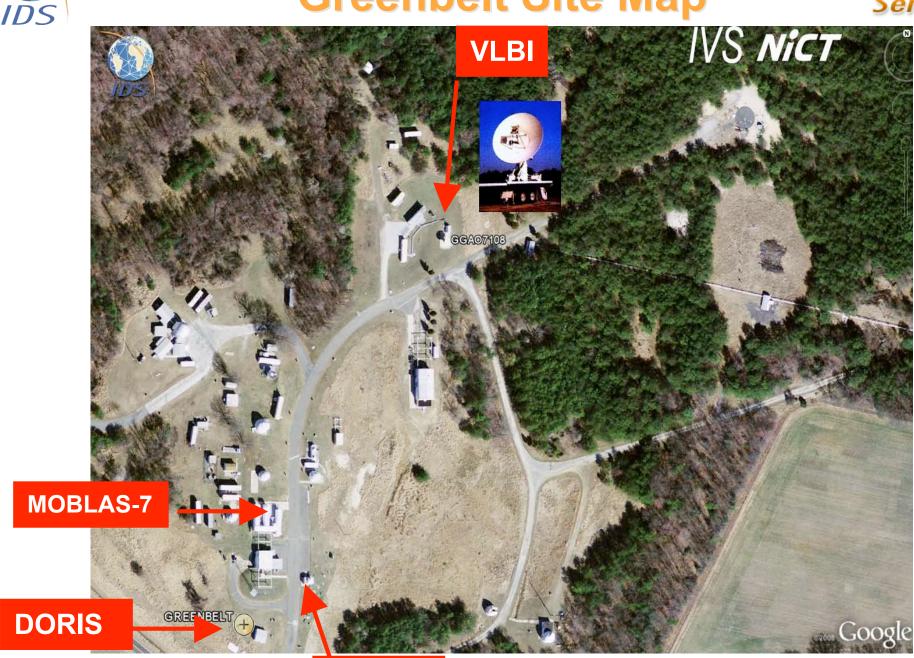


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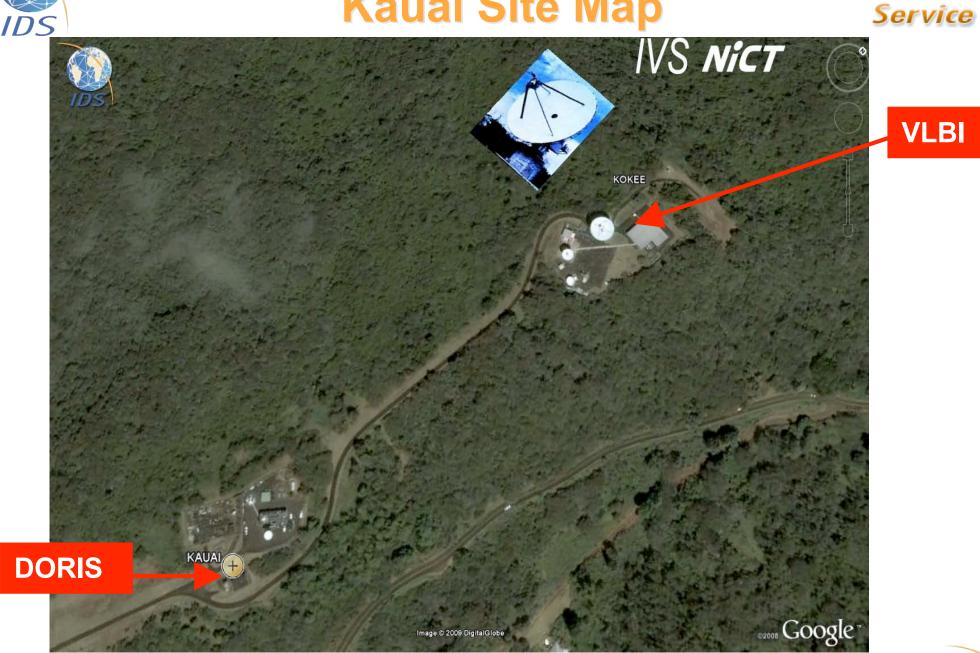
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Kauai Site Map

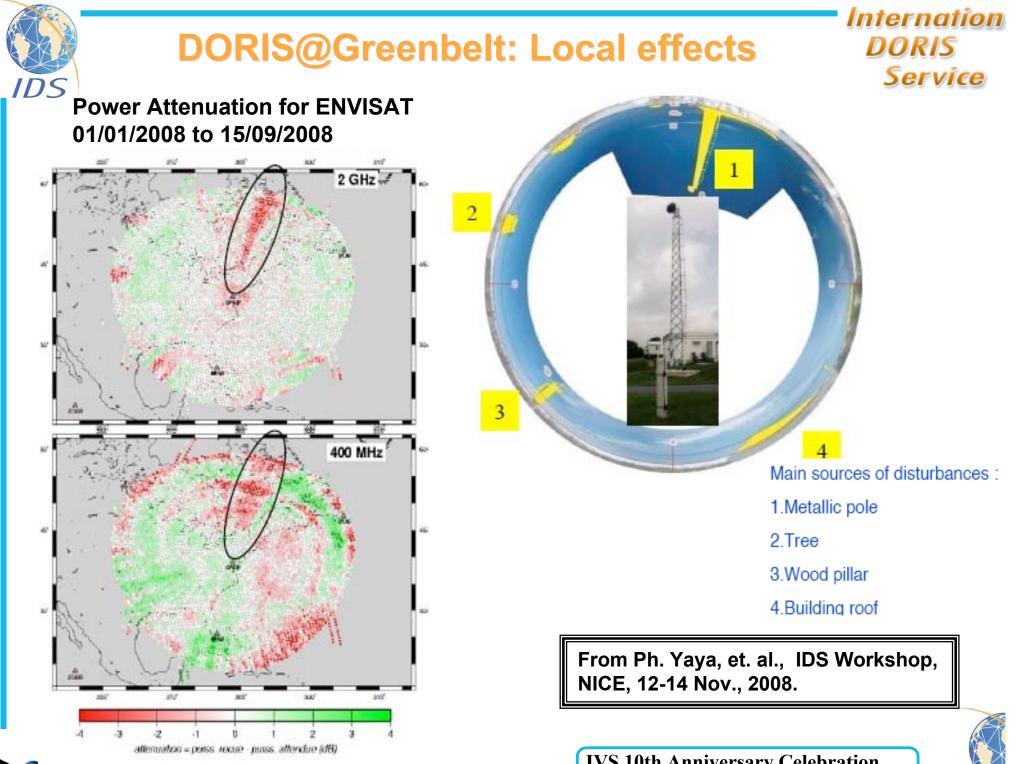




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VLBI



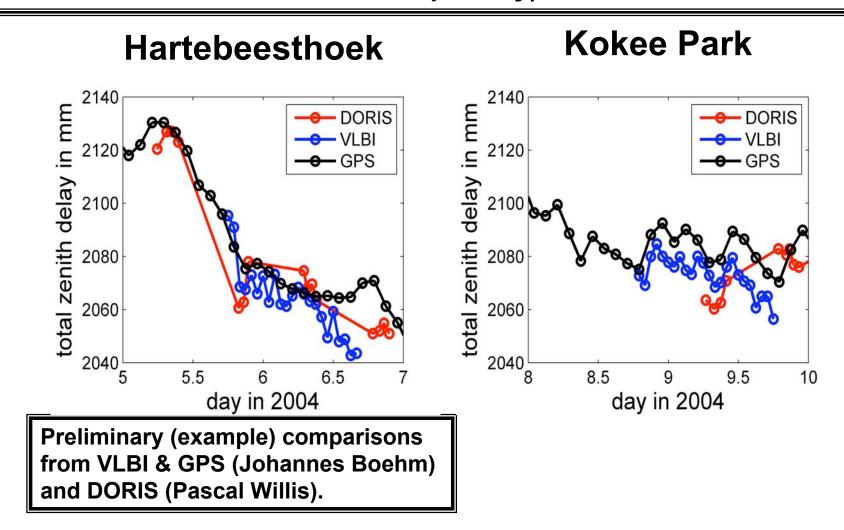


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Troposphere comparisons

- DORIS, like VLBI & GPS must estimate troposphere corrections.
- Corrections are estimated pass-by-pass (typically 10-15 min, ~2X per satellite & DORIS station, and per day).





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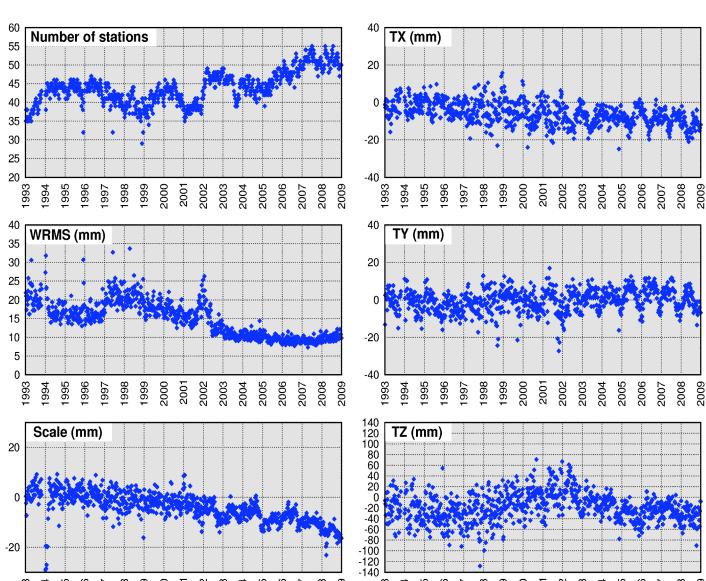
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DORIS

IDS

ITRF2008: Prelim. IDS Combination Results





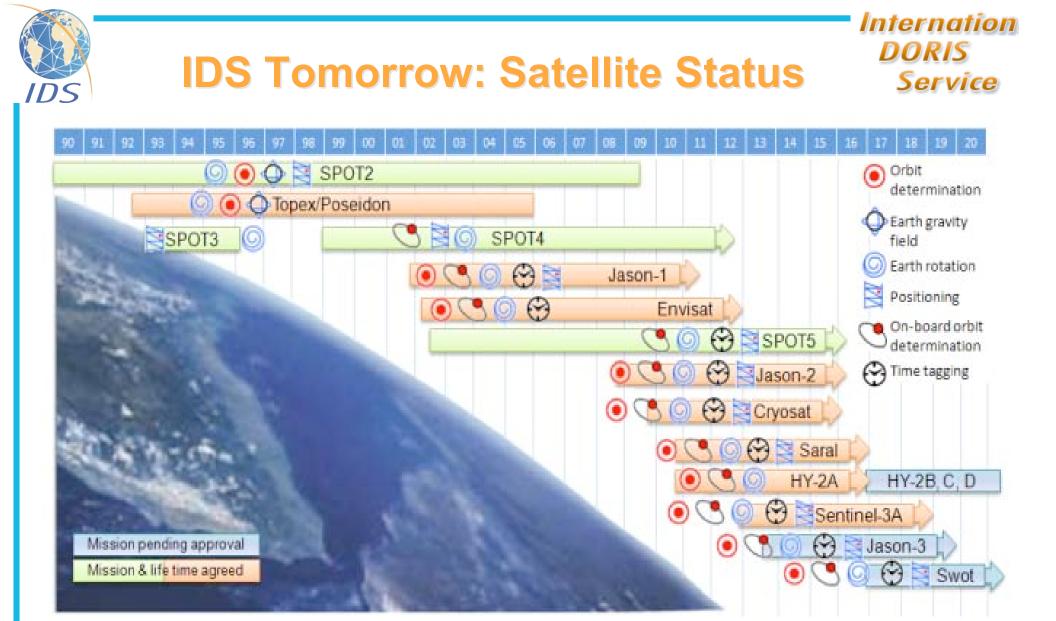
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• From Tavernier et al. (2006) & Altamimi et al. (2006), a minimum of four satellites necessary for quality geodetic positioning;

At least five satellites are assured through mid to end of the next decade.





New DORIS Special Issue

- Advances in Space Research.
- Guest editor Pascal Willis (email: willis@ipgp.jussieu.fr).
- Submissions open March-June 2009.
- Submissions through Elsevier website

http://ees.elsevier.com/asr/default.asp

- <u>Topics</u>: DORIS Analysis issues, AC submissions to ITRF2008, comparisons and analysis with other techniques; Jason-2/Jason-1 Tandem mission analyses & calibrations;
- VLBI Community is invited to participate.
- Contact the editor for any questions.
- See DORISMAIL 0587 (March 1, 2009) for more information.



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- Continue to advance the DORIS technique, with the aid of our analysis centers; Troposphere modelling, site multipath issues, spacecraft modelling, ionosphere corrections are all issues we will focus on in detail after completion of the ITRF2008 submission.
- We are very interested in continuing interactions with other techniques and IAG services.
- The IDS is grateful that the IVS hosts its beacons at a number of its sites, and we hope that perhaps these colocations can be increased in the future. (A limited number of beacons are available for scientific studies, and proposals should be made through the IDS GB).
- We should begin to plan now the configuration of the new next generation geodetic network (SLR, VLBI, GPS, DORIS), and how all the elements might fit together. (e.g. How do we plan for next generation station in Hawaii - should the NGSLR & VLBI2010 be built on Haleakala, or on Kauai at Kokee Park? What will happen at Fairbanks?)



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Thank you for your attention!























