



JCET @ GAVDOS

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T/P-JASON SWT, New Orleans, LA Oct. 21-23 2002

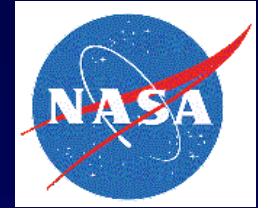


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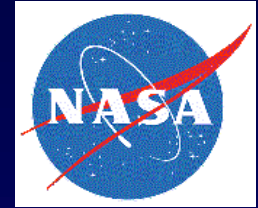


- Objectives for this period
 - Install primary hardware
 - Establish communication links with TUC
 - Start GPS and MSL data analysis
 - Establish procedures for GDR access





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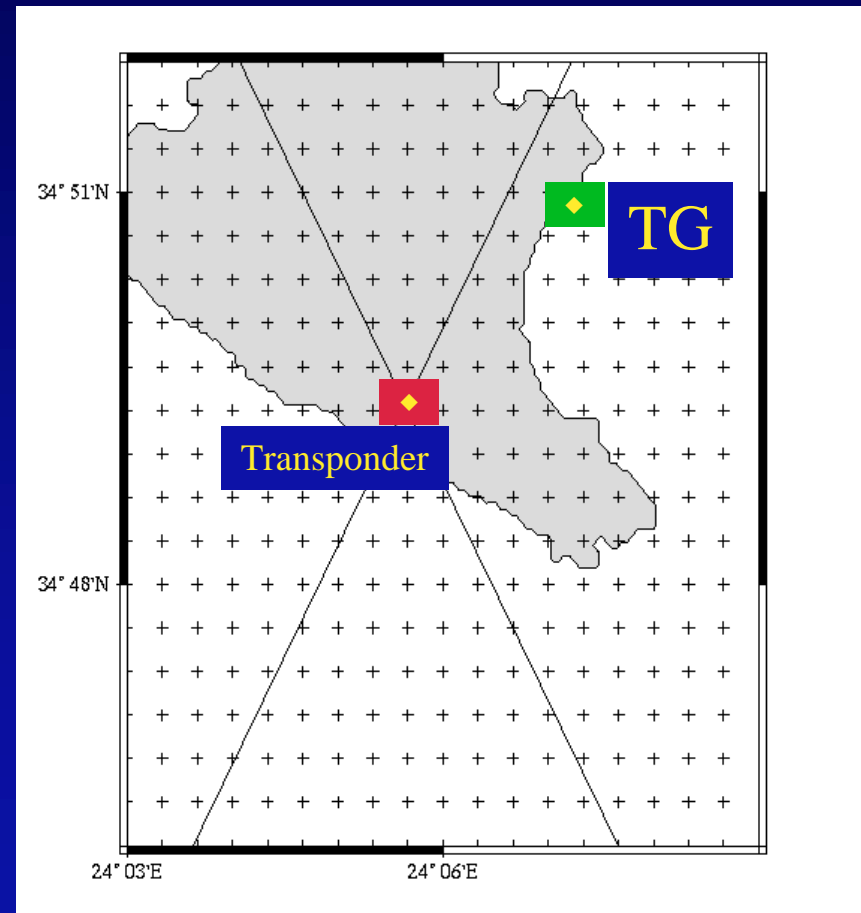
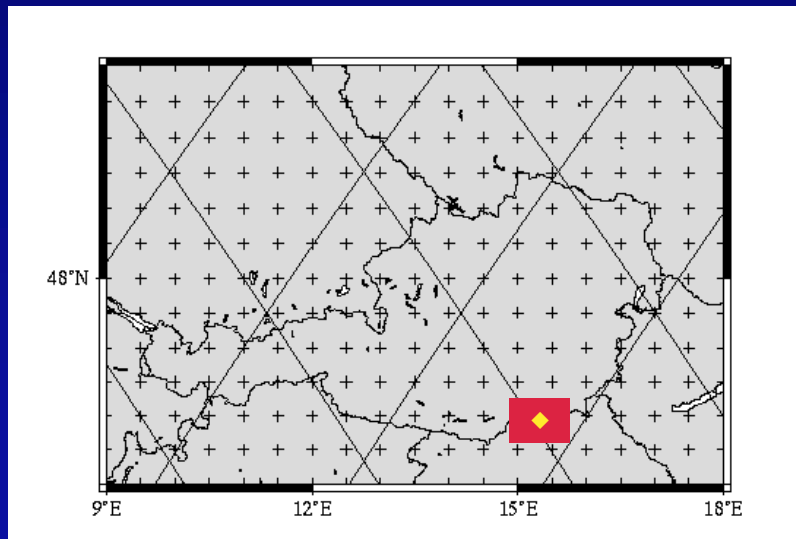
- Scientific/Technical progress for this period
 - Testing the daily data transfer to CDDIS
 - TUC1 1997-2002 GPS data transfer complete
 - Established communication links with TUC
 - TUC+ GPS data re-analysis nearly complete
 - SLR/DORIS/GPS JASON data analysis started
 - IGDR/GDR access established

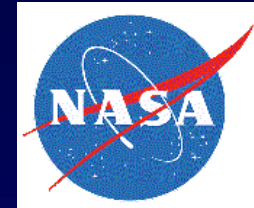




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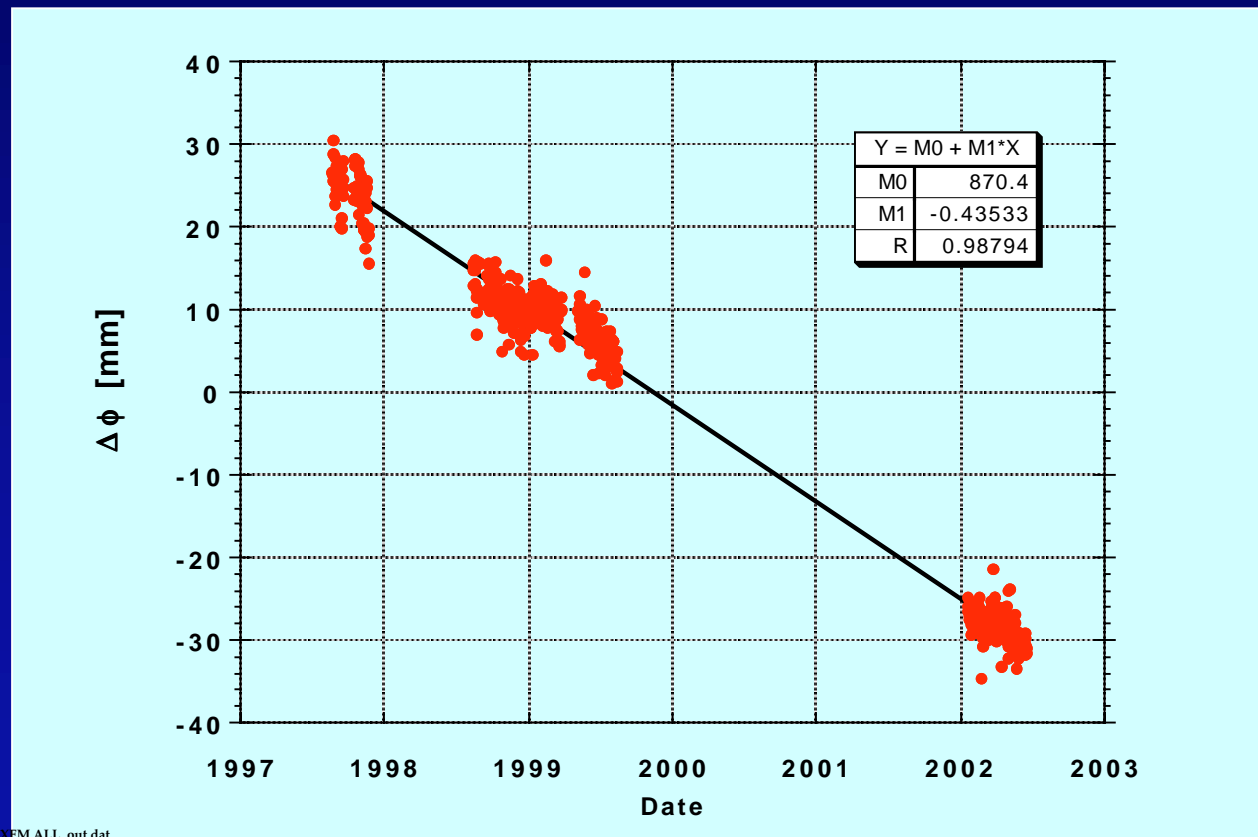
- JASON tracks over GAVDOS and Austria for transponder tests





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- TUC tectonic motion



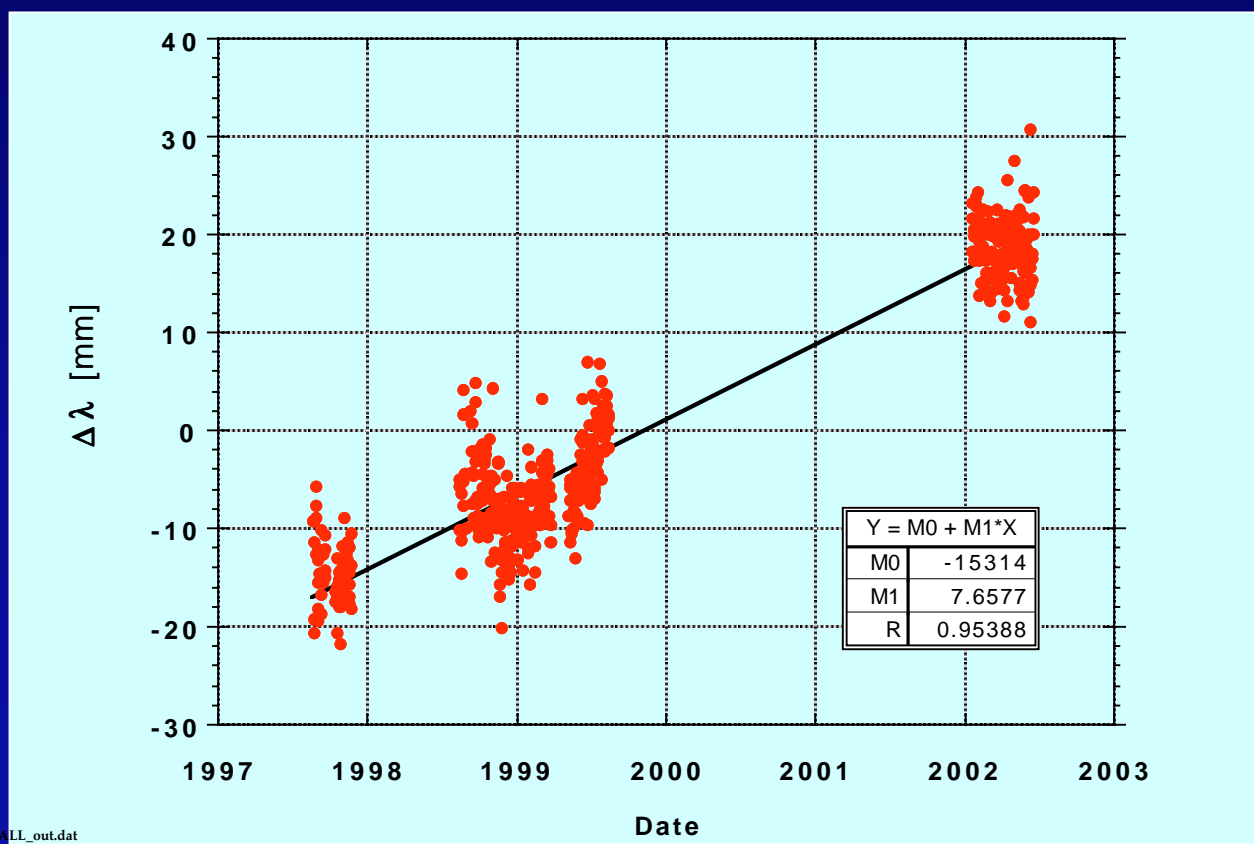
XFM.ALL_out.dat





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- TUC tectonic motion



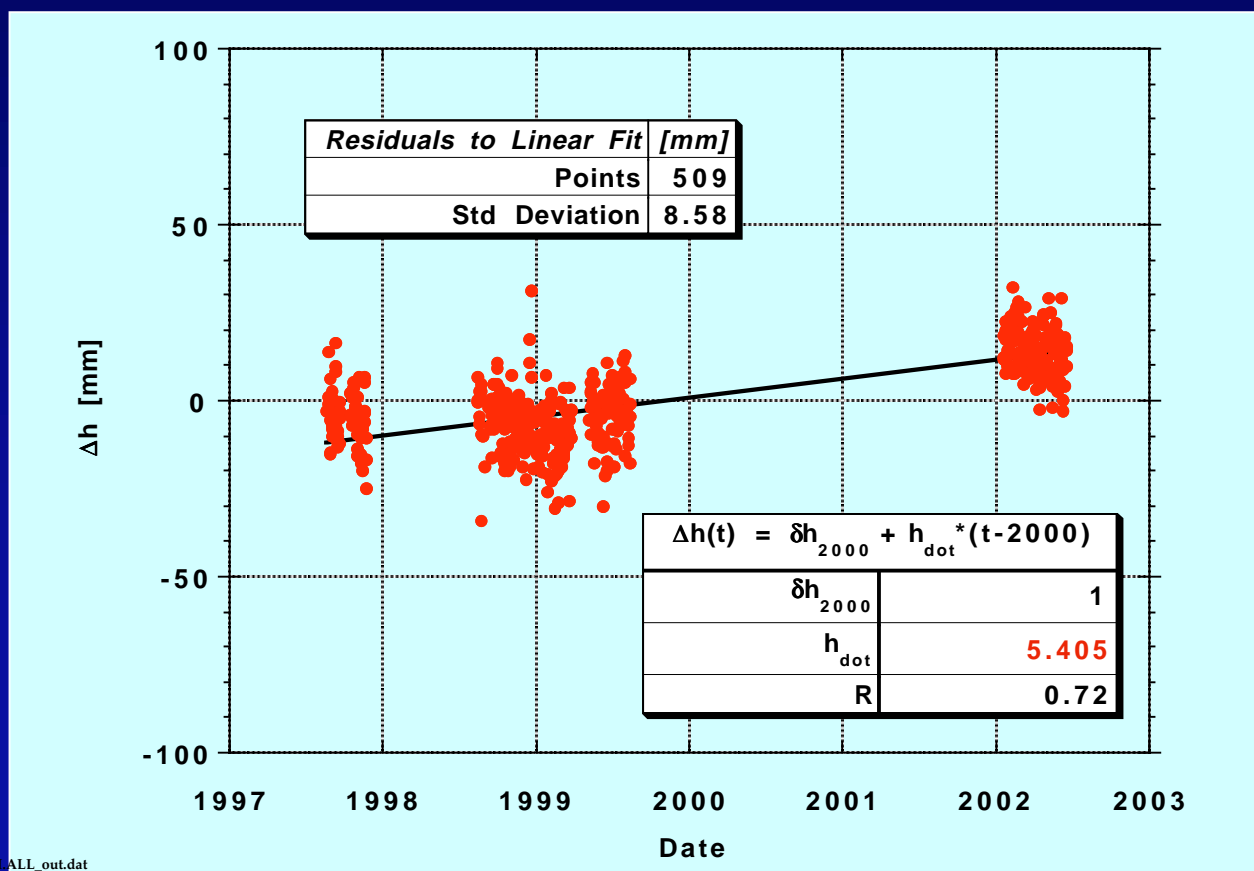
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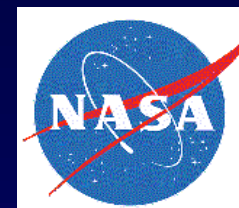
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- TUC tectonic motion



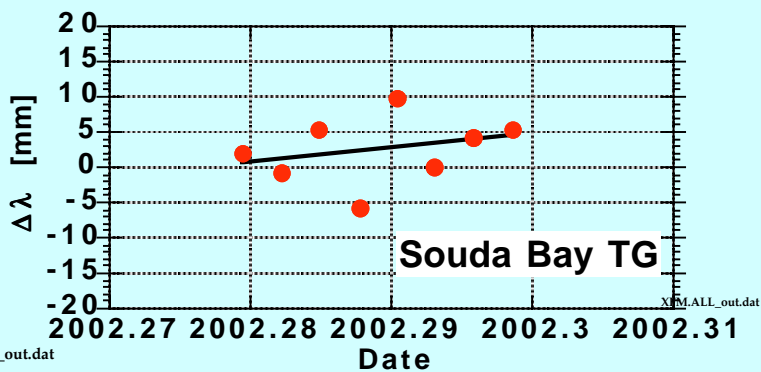
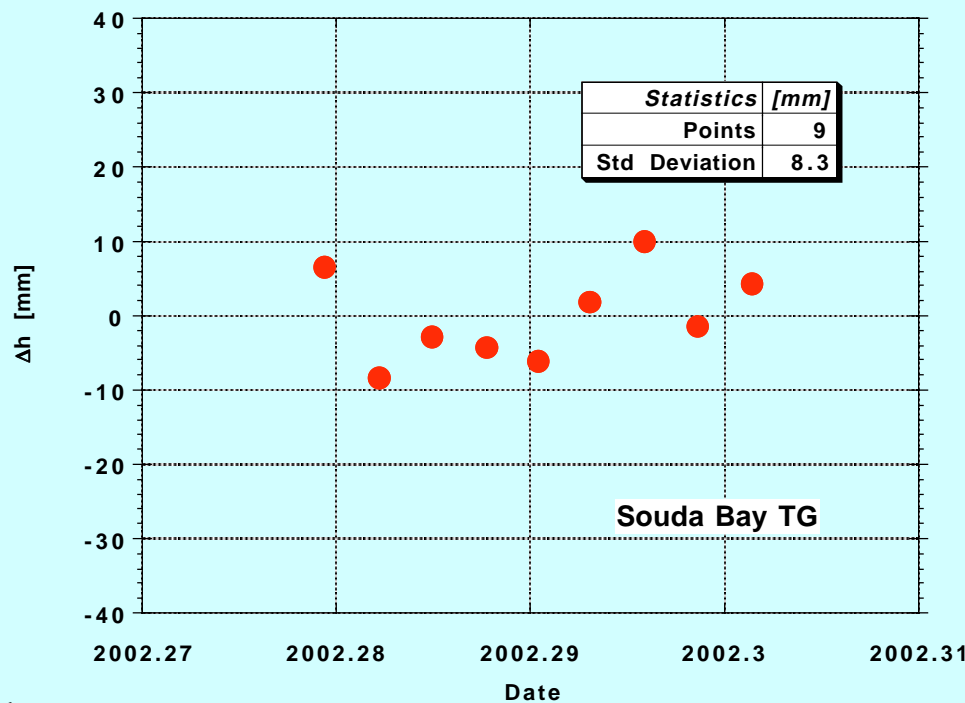
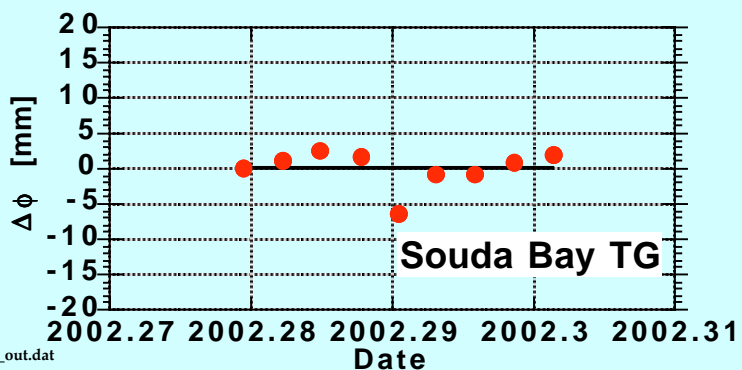
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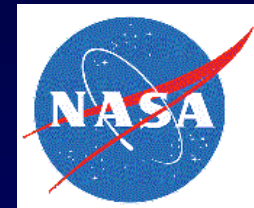
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- Souda Bay TG GPS Positioning

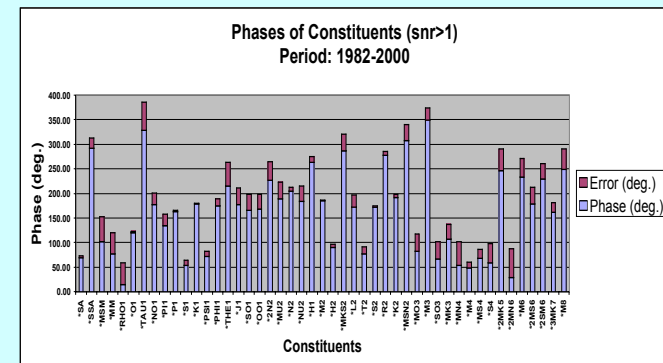
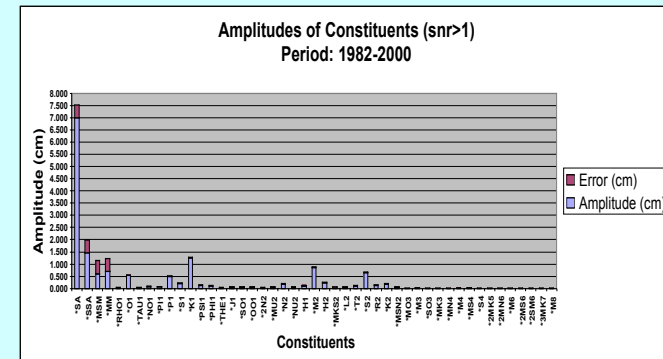
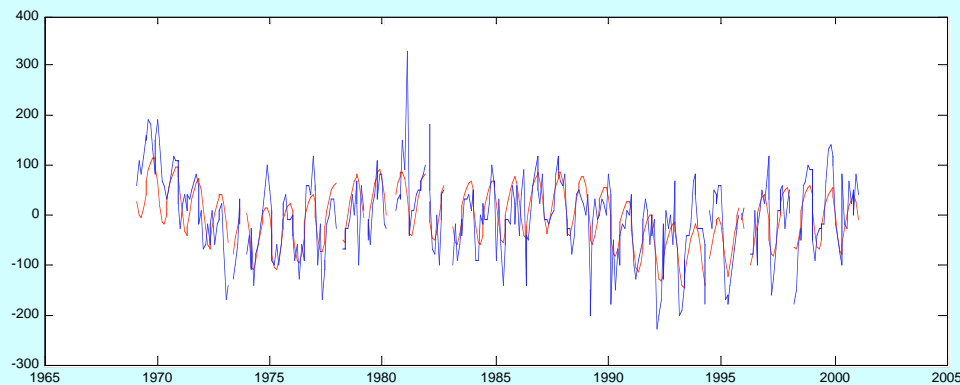




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- Souda Bay tide gauge time series



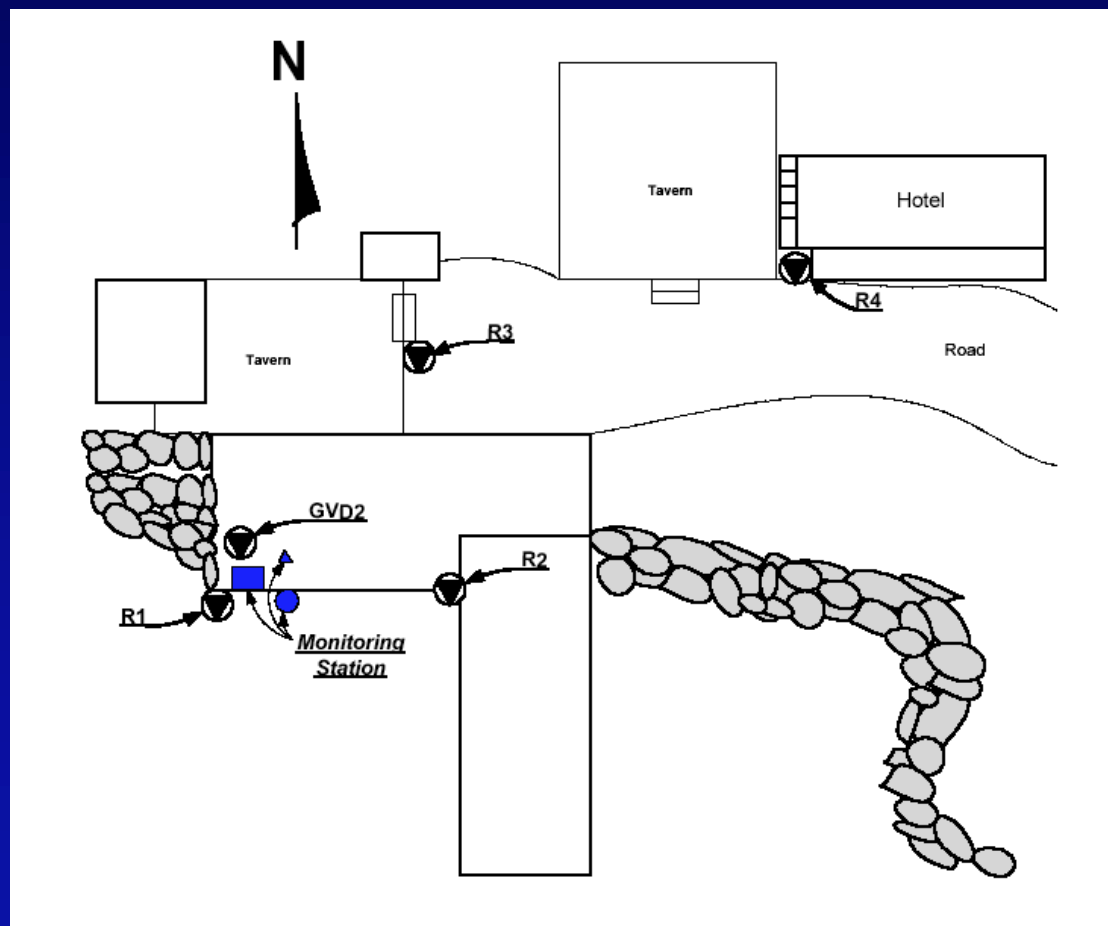
	Amplitude (cm)	Error in Amp.	Phase (months)	Error in Phase (months)
Linear trend	-1.78mm/y	±0.65mm/y		
SA	6.23 cm	±0.81 cm	8.4	±0.25
SSA	1.07 cm	±0.81 cm	4.7	±1.4
18.6y cycle	3.45 cm	±0.87 cm	147.0	±0.48
9.3y cycle	2.53 cm	±0.83 cm	92.9	±0.62

Explained variability = std of model / std of data = 55.8 / 77.98 = 71.6%



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- Tide gauge installation





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Benchmark Information

Number of Tidal Benchmarks: 5
 Primary BM Designation: *GPS*
 SRM Designation:
 Designation of other BM's:
 BM Descriptions Published In: *TUC*
 Were all BM's recovered during this visit? *yes*
 Were any BM's destroyed since last recovery? *No*

Leveling Information

ABSTRACT OF PRECISE LEVELS

Date: *August 22, 2002*

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Tide Station Name:	Gavdos
Tide Station No.:	
Country:	<i>Greece</i>
Chief of party:	<i>L. Chapin</i>
Observer:	<i>A. Frantzis</i>
Recorder:	<i>E. Koutroulis</i>
Rodman:	<i>N. Spyridanis & K. Palamartchouk</i>
Level:	<i>Zeiss Ni-30</i>
Rod:	<i>cm</i>

F/B	Difference	Mean	Divergence	Distance	Designation	Elev	Elev + 0
F	-1.943				LP		10.000m
B	+1.942	-1.942	-1/-1	0.03/0.03	R1	8.058	(SRM)
F	+0.354				R1		
B	-0.353	+0.354	-1/-2	0.03/0.06	GVD2	8.412	
F	-0.370				GVD2		
B	+0.371	-0.370	+1/-1	0.02/0.08	R2	8.042	
F	-0.007				R2		
B	+0.007	-0.007	0/-1	0.02/0.10	R3	8.035	
F	+1.188				R3		
B	-1.188	+1.188	0/-1	0.02/0.12	R4	9.223	
F	+0.174				R4		
B	-0.174	+0.174	0/-1	0.02/0.14	R5	9.397	





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- GAVDOS Tide gauge installation





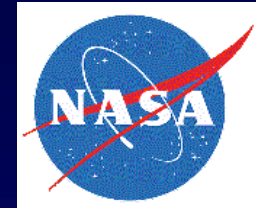
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- Tide gauge data logger & control box





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- Future Plans:
 - Connect EUMETSAT terminal for direct data access at ACs (discussions with POL, WMO, GLOSS)
 - Install GPS receiver at tide gauge
 - Resolve power issue at Gavdos (wind generator + SP)
 - Complete Gavdos GPS data analysis
 - Automate SLR/DORIS/GPS JASON data analysis
 - Prepare for February 2003 airborne gravity & laser profiler campaign, and possible GPS buoy deployment

