



IGS

Orbit Modelling



Program

	Monday (April 15)	Tuesday (April 16)	Wednesday (April 17)
09:00 - 10:00	Welcome and overview of repro3	S3: Antenna PCC	S5: other models and repro standards
10:30 - 11:00	Break		
11:00 - 12:30	S1: Orbit Modelling	S3: Antenna PCC	Closing session and recommendations
12:30 - 14:00	Lunch		
14:00 - 15:30	S1: Orbit Modelling	S4: Time variable gravity and tidal models	GFZ tour
15:30 - 16:00	Break		
16:00 - 17:30	S2: High frequency EOP	S5: other models and repro standards	
		Dinner	



Repro3 Orbit Modelling Topics

- Report attitude model through quaternions
- ARC Lengths greater > 1 day
- Antenna Thrust Values
- SRP Handling by GPS Blocks ?
 - GLONASS/ Galileo / Constellation
- Albedo Modelling

Orbit Modelling Talks

- Erricos Pavlis – SLR Biases and ranging to GPS
- Thomas Herring – GPS integration comparison tests
- Peter Steigenberger – Antenna Thrust Values
- Sylvain Loyer – Attitude comparisons
- Rolf Dach – Arc lengths greater > 1 day

Orbit Modelling

- Solar radiation pressure models following seem to work well:
 - ECOM1 (for some), ECOM2 (for some)
 - Apriori Box wing + empirical
 - ROCK Models
- Eclipsing satellites
 - Problems with models accounting for thermal re-radiation effects?
 - Particularly for block IIF satellites