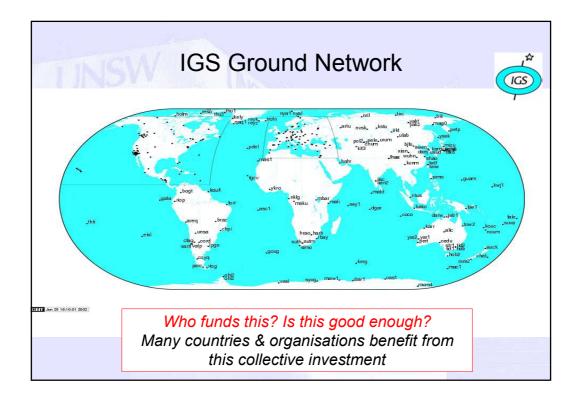
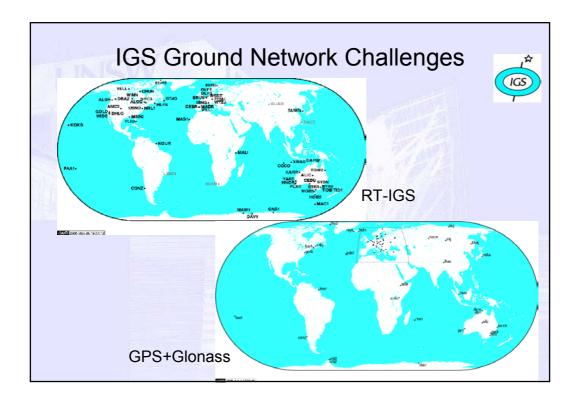
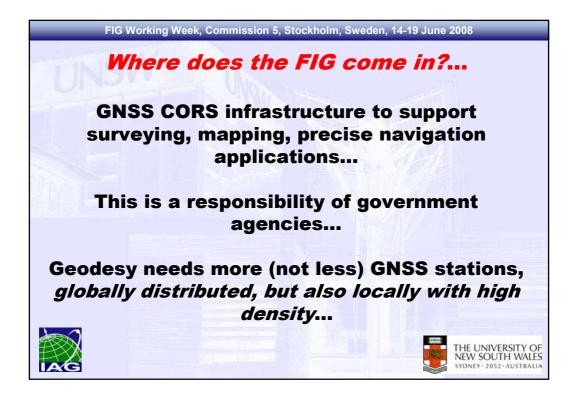


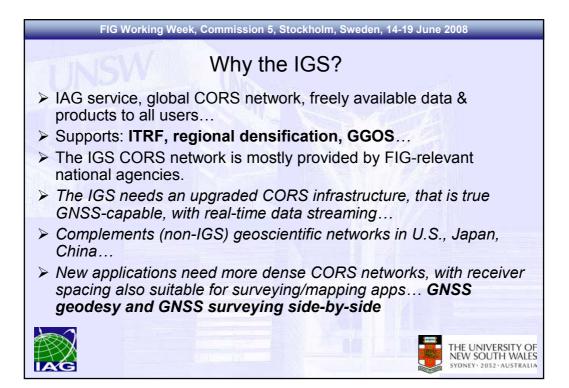
			Contraction of the		
		Ассигасу	Latency	Updates	Sample Interv
GPS S		erides / Satellit	te & Station C	locks	
Broadcast	orbits Sat. clks	~160cm ~7ns	real time		daily
Ultra-Rapid (predicted half)	orbits	~10cm	real time	four x daily	15 min
	Sat. clks	~5ns			
Ultra-Rapid (observed half)	orbits Sat. cIks	<5cm ~0,2ms	3 hours	four x daily	15 min
(oosalved hall) Rapid	orbits	~0.2ns <5cm	17 hours	daily	15 min
	Sat. & Stn. clks	0.hrs			5 min
	orbits	<5an		weekly	15 min
Final	Sat. & Stn. clks	<0.lns	~13 days		5 min
	GLONAS	S Satellite Eph	emerides		
Final		15an	2 weeks	weekly	15 min
Geocentri	c Coordinates	of IGS Trackin	g Stations (>1	30 sites)	
Final positions	horizontal vertical	3mm 6mm	12 days	weekly	weekly
Final velocities	horizontal vertical	2mm/ут 3mm/ут	12 days	weekly	weekly

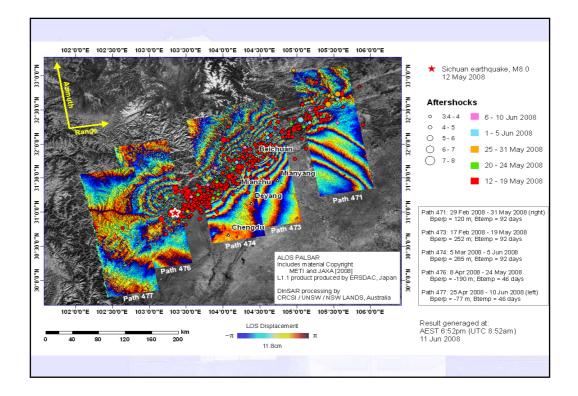
		Accuracy	Latency	Updates	Sample Interval
	Earth	Rotation Param			
Ultra-Rapid	PM	0.3mas		four x daily	four x daily (00,06,12,18 UTC)
(predicted	PM rate	0.5mas/day	real time		
half)	LOD	0.06ms			
Ultra-Rapid (observed half)	PM	0.lmas		four x daily	four x daily (00,06,12,18 UTC)
	PM rate	0.3mas/day	3 hours		
	LOD	0.03ms			
Rapid	PM	<0.lmas		daily	daily (12 UTC)
	PM rate	<0.2mas/day	17 hours		
	LOD	0.03ms			
	PM	0.05mas		weekly	daily (12 UTC)
Final	PM rate	<0.2mas/day	~13 days		
	LOD	0.02ms			
		ospheric Parame	aters		
Final tropospheric zenith path delay		4 <u>mm</u>	< 4 weeks	weekly	2 hours
Ultra-Rapid tropospheric zenith path delay		6mm	2-3 hours	every 3 hours	l hour
Final Ionospheric TEC grid		2-8 TECU	~11 days	weekly	2 hours; 5 deg (lon) x 2.5 deg (lat)
Rapid Ionospheric TEC grid		2-9 TECU	<24 hours	daily	2 hours; 5 deg (lon) x 2.5 deg (lat)











## Take home message...

"Modern Geodesy relies on the contributions of Space Agencies (through space missions), national geodetic/survey organisations (ground infrastructure) and international institutions (providing the framework for collaborative geoscience)."

The FIG through its links to national geodetic/survey agencies is an important ally of the IAG... particularly in ensuring the upgrade and densification of GNSS CORS infrastructure...