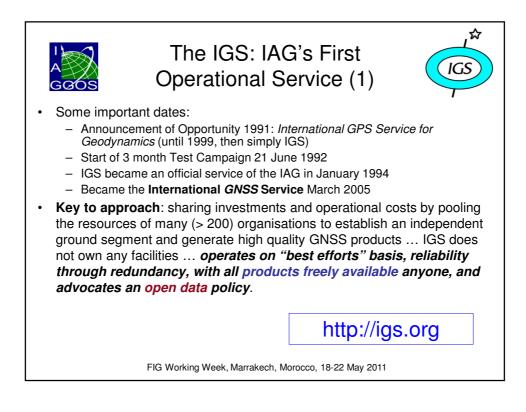
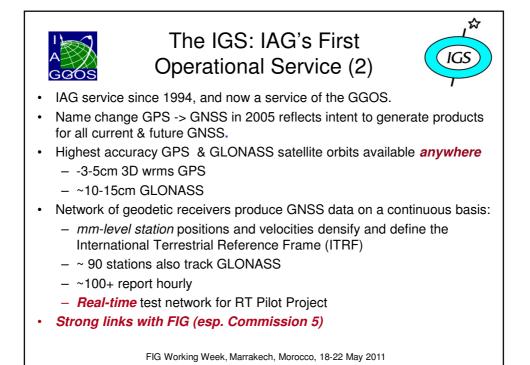
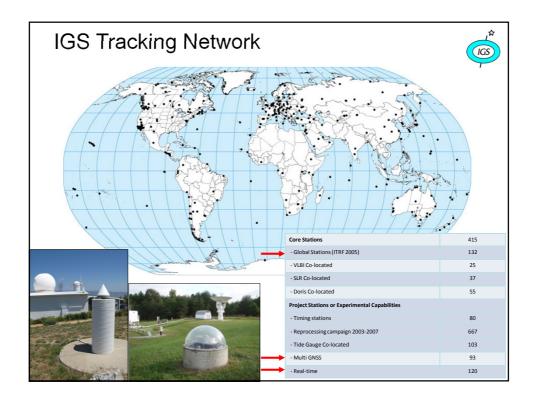


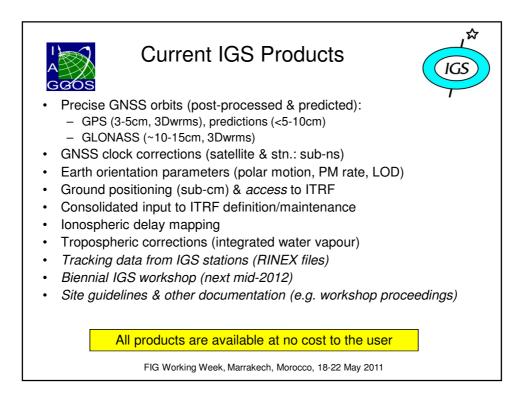
FIG Working Week, Marrakech, Morocco, 18-22 May 2011

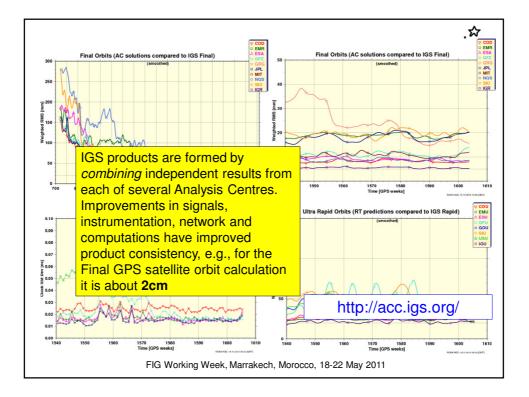




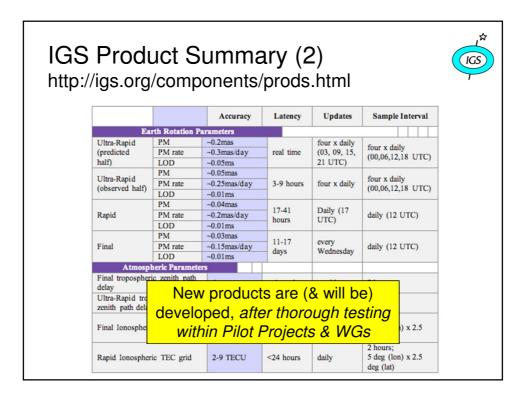


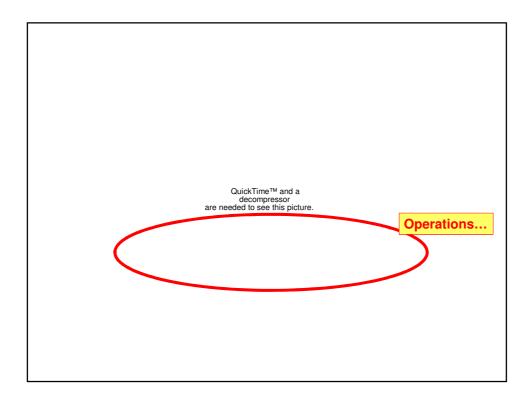


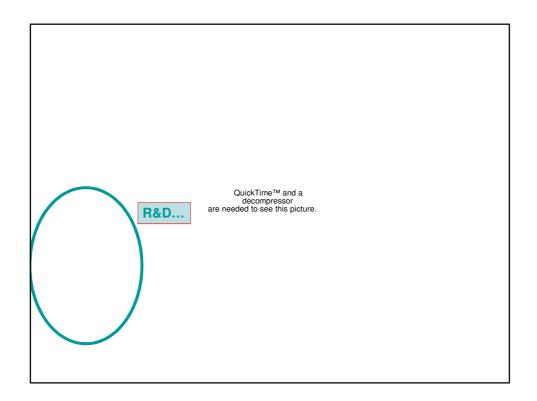


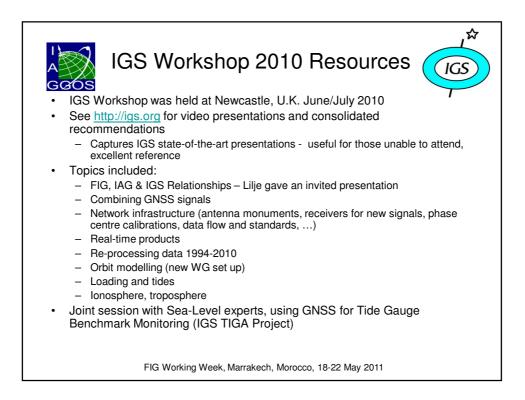


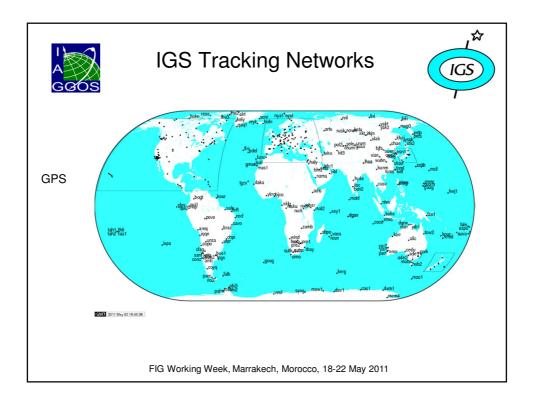
igs.org	/comp	onents	/prods	.html	
0 0	•				
			•		
		Accuracy	Latency	Updates	Sample Interva
	ellite Ephemeric & Station Cloc	les/			
Satellite	orbits	~100cm			
Broadcast	Sat. clks	~5ns rms	real time		daily
Ultra-Rapid	orbits	~5cm	-	four x daily	
(predicted half)	Sat. clks	~3ns rms	real time	(03, 09, 15, 21 UTC)	15 min
Ultra-Rapid	orbits	~3cm	3-9 hours	four x daily	15 min
(observed half)	Sat. clks	~0.15ns rms			
	orbits	~2.5cm	17-41 hours	Daily @ 17 UTC	15 min
Rapid	Sat. & Stn. clks	~0.075ns rms			5 min
	orbits	~2.5cm			15 min
Final	Sat. & Stn. clks	~0.075ns rms	12-18 days	every Thursday	Sat.: 30 sec Stn.: 5 min
GLONASS	Satellite Ephem	erides			
Final		~5cm	12-18 days	every Thursday	15 min
Geocentric Co	ordinates of IG (>250 sites	S Tracking Stati	ons		
Final positions	horizontal vertical	3mm 6mm	11-17 days	every Wednesday	weekly
	horizontal	2mm/yr	11-17 days	every Wednesday	weekly
Final velocities	vertical	3mm/vr			

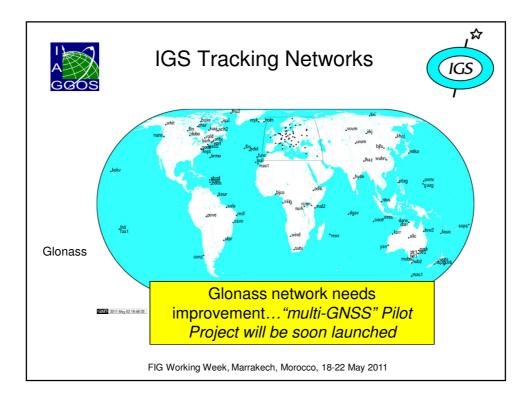




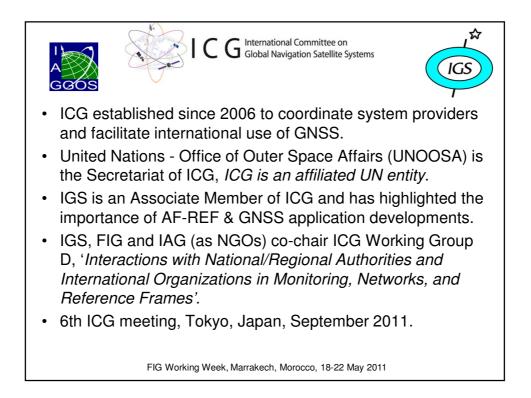


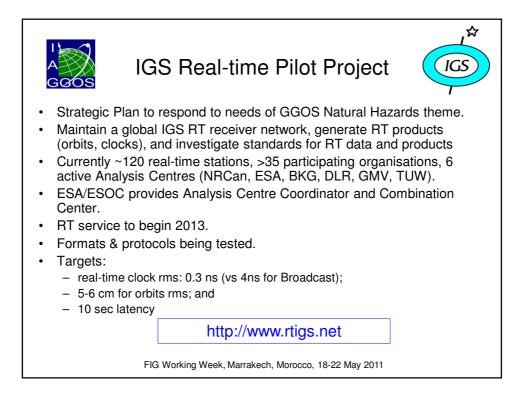


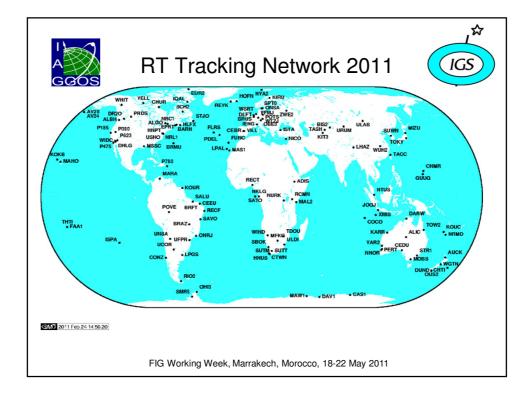


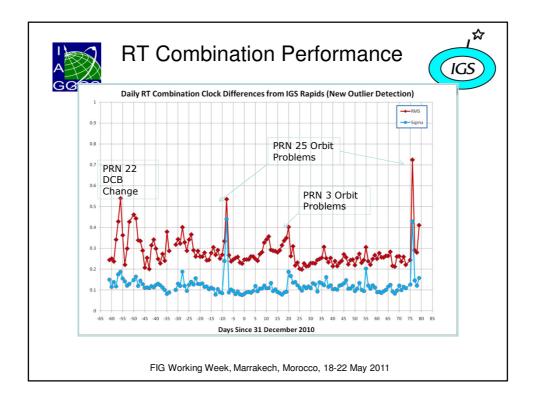






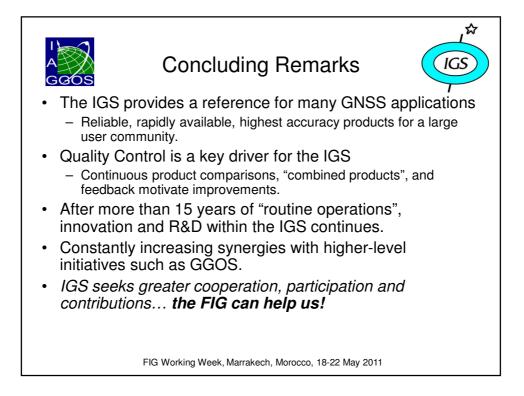






	AC Performance					
	Feb 6 2009		June 8	2010	March 9 2011	
AC	Clock RMS (ns)	Clock Sigma (ns)	Clock RMS (ns)	Clock Sigma (ns)	Clock RMS (ns)	Clock Sigma (ns)
Comb	0.29	0.22	0.16	0.10	0.18	0.08
RTComb	-	-	0.15	0.11	0.21	0.08
BKG	6.72	2.97	0.20	0.12	1.20	0.08
CNES	-	-	-	-	0.24	0.10
DLR	0.38	0.10	0.20	0.12	0.38	0.26
ESOC	0.42	0.38	0.21	0.12	0.20	0.16
ESOC2	0.36	0.30	0.19	0.11	0.30	0.09
GFZ	-	-	-	-	0.31	0.07
NRC	0.67	0.62	0.24	0.10	0.23	0.08
GMV	1.67	1.66	0.28	0.14	0.34	0.17
TUW			0.70	0.53	0.71	0.55
	FIG	Working Weel	k, Marrakech, Mor	оссо, 18-22 Ма	y 2011	

I A GØOS	Products in Real Time http://igs.bkg.bund.de/ntrip/orbits	IGS
	Description	NTRIP Mountpoint
RTACC ESOC	RT combination from BKG, CNES, DLR, ESOC, ESOC2 and GFZ streams (CoM /APC)	CLK30/31
CNES	RT clocks based on IGU orbits (CoM/APC)	CLK90/91
BKG with TU Prague	GPS and GPS + GLONASS RT clocks using IGS ultra-rapid orbits (CoM/APC).	CLK00/10 CLK01/11
DLR	RT clocks using IGS ultra-rapid orbits.	CLKC1/A1
ESOC	RT clocks and TZD NRT batch orbits every 2 hours (ESOC) and using IGS ultras (ESOC2) (CoM /APC)	CLK50/51 CLK52/53
	RT clocks (CoM/APC)	CLK70/71
GMV	RT clocks based on GMV orbit solution (CoM/APC).	CLKC1/A1
TUW	RT clocks based on IGU orbits (CoM/APC)	CLK80/81
	FIG Working Week, Marrakech, Morocco, 18-22 May 2011	



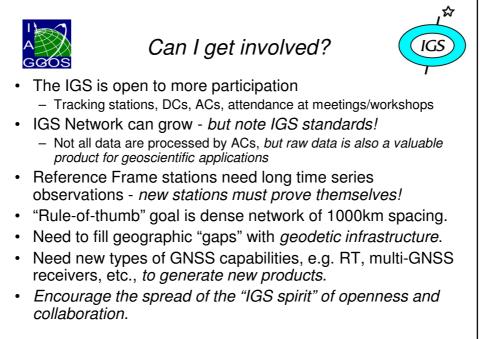


FIG Working Week, Marrakech, Morocco, 18-22 May 2011

