



1

















Correction Type	PPP	Differential GNSS	1
Satellite Specific errors			1
Precise satellite clock corrections	1	×	
Satellite antenna phase centre offset	1		
Satellite antenna phase centre variation		1/8 SV	VIS
Precise satellite orbits	I'm mod	$ e  (\alpha \cup b)$	• /
no com	NEX UN	· · · · · · · · · · · · · · · · · · ·	·
PPP require not loc	s "global al CORS	correct	
more com PPP require not loc	s "global cal CORS	<u>correct</u> data	ions,
PPP require not loc	s "global al CORS	<u>correct</u>	ions,
PPP require not loc	s "global al CORS	Correct	ions,
PPP require not loc	s "global al CORS	Correct	ions,
PPP require not loc	s "global al CORS	Correct	ions,











## IGS Real-Time Pilot Project

- Real-time product generation is part of IGS Strategic Plan, started 2002
- Infrastructure:
  - More than 120 active real-time stations
  - Data streaming using NTRIP
  - Close link to RTCM...joint WG established
- Analysis:
  - 8 real-time Analysis Centres (one in China)
  - Real-time orbit & sat clock combination...can support RT-PPP
- Future:
  - Real-time service to be launched mid-2012...GPS-only
  - Satellite clock corrections, orbits, ionosphere corrections
  - Include new systems and signals

17













GNSS services							
Service	Accuracy	Correction source	Navigation satellites	Satellite frequencies	Positioning mode		
L1	Meter	Reference	oriotar	v) serv	vice		
Commercial (PIOP Sowing "FUD" will CORS investment be reduced?							
	Decimeter	Orbit & clock (JPL)	GPS	Dual	PPP		
G2	Decimeter	Orbit & clock (Fugro)	GPS & GLONASS	Dual	PPP		
tual performance may vary and de ther environmental factors	epends upon propagation of ei	ectromagnetic signais (e.g., ionosph	eric propagation), satellite perfor	mance, solar flare activity			







