Products	**SINEX**	ULR0R03FIN_yyyyddd000000_01D_01D_SOL.SNX.gz
Observables	**GNSS (included from)**	GPS (2003/01/01)
	Observable types	Doubly differenced phase (GPS: L1&L2) and code observations
	Sampling rate	2 minute, 30-second cleaning
	Elevation cutoff	10°
	Elevation-dependent inverse weights (sigma² =)	sqrt(a^2+b^2/sin(e)^2)); a and b are site and day dependent. (5.5 and 3.5 mm typical)
	Data span	24 hr
Measurement corrections	**Code biases**	C1-P1 biases from CODE monthly values
	Phase biases	DD solution
	RHC phase rotation corrections	Wu et al., 1993
	Satellite antenna-centre of mass offsets	igsR3_2135.atx
	Satellite antenna phase variations	igsR3_2135.atx
	Ground antenna phase center corrections	igsR3_2135.atx
	Radome phase center corrections	Applied if in igsR3_2135.atx (NONE if not)
	Marker => antenna ARP eccentricity	dN, dE, dU eccentricities from site logs (rnx header if no site log available)
	Relativistic corr. for satellite clocks (-2*R*V/c)	Applied
	Gravitational bending	IERS2010
Terrestrial Reference Frame	**Terrestrial reference frame**	
	Alignment of SINEX solutions	NNR
	Orbits consistent with SINEX?	Yes
	Alignment of clock solutions	No

Inertial Frame	**Precession / nutation**	IAU2000A
	A priori EOPs	Bulletin A
	Tidal variations	Desai & Sibois (2016)
	UT1 Libration	IERS 2010
Geopotential	**Static gravity field**	EGM2008 12x12
	Non-tidal variations	
	Solid Earth tides	IERS2010
	Ocean tides	FES2014b
	Solid Earth pole tide	IERS2010
	Ocean pole tide	IERS2010
	Mean pole model	Linear mean pole
Station displacements	**Solid Earth tides**	IERS2010
	Ocean tidal loading	FES2014b
	Ocean tidal loading center of mass corr.	Applied to orbits
	S1/S2 atmospheric loading	None
	S1/S2 atmospheric loading CM corr.	None
	Solid Earth pole tide	IERS2010
	Ocean Pole Tide	IERS2010
	Mean pole model	Linear mean pole
	Non-tidal loading atmospheric pressure	None
	Non-tidal loading ocean bottom pressure	None
	Non-tidal loading surface hydrology	None
	Non-tidal loading (general remarks)	None

Orbit dynamics	**Arc length**	24 h
	Shadow zones	Earth and Moon
	GPS attitude in daylight	Nominal, Kouba model
	GAL attitude in daylight	Nominal
	Third bodies	JPL DE405, Sun, Moon, Jupiter, Venus
	Earth reflected (visible) radiation	Rodriguez-Solano 2009
	Earth emitted (infrared) radiation	Rodriguez-Solano 2009
	Antenna thrust	IGS METADATA SINEX
	Thermal re-radiation	
	Relativistic effects dynamical correction	IERS2010
	Relativistic effects gravitational time delay	IERS2010
	A priori solar radiation pressure	Direct only
	Empirical accelerations (& constraints)	ECOM2 with stochastic constraints and selected terms based on obit overlaps and all estimates
	Stochastic pulses (& constraints)	None
Tropospheric delays	**Met data**	VMF1
	A priori zenith delays	VMF1
	Adjusted zenith delays (& constraints)	Peicewise linear (1-hr knots)
	Mapping functions for a priori delays	VMF1
	Mapping function for adjusted delays	VMF1 wet
	Mapping function coefficients	VMF1
	A priori gradients	None
	Adjusted gradients (& constraints)	NW/EW linear over day (apriori constraints)
	Mapping function for gradients	Chen and Herring (1997)

Ionospheric delays	**1st-order effect**	Dual frequency LC
	2nd-order	IGRF13, TEC from IGS IONEX
	3rd-order	Applied
Estimated parameters & constraints	**Software**	GAMIT/GLOBK 10.71
	Adjustment method	weighted least-squares+Kalman filter
	Station coordinates	All station coordinates adjusted; NNR constraints
	Earth orientation parameters (EOP)	XY offset and rates, LOD with UT1 from integrated LOD (Bulletin A, start of week)
	Geocenter	No
	Troposphere zenith wet delays	Piecewise linear (1-hr knots)
	Troposphere gradients	Piecewise linear (1-hr knots)
	Ionosphere	None
	Orbits	6 Keplerian elements (independent each day). 3 constant radiation parameters, 2/6 twice/once/four per rev direct, once-per-rev B axis (satellite/week dependent).
	Satellite attitude	nominal yaw
	Satellite antenna offsets	Yes; tightly constrained
	Ambiguities	Double difference, Wide and Narrow lanes, Melbourbe-Wubbena for WL
	Satellite clocks	Re-constructed approximately from double difference
	Receiver clocks	Re-constructed approximately from double difference
	Satellite code biases	not estimated
	Satellite phase biases	not estimated
	Receiver code biases	not estimated
	Receiver phase biases	not estimated