	POE-E	POE-F
Gravity model	EIGEN-GRGS.RL03-v2.MEAN-FIELD	EIGEN-GRGS.RL04-v1.MEAN-FIELD
	Non-tidal TVG: one annual, one semi- annual, one bias and one drift terms for each year up to deg/ord 80; C21/S21 modeled according to IERS2010 conventions	Non-tidal TVG: one annual, one semi- annual, one bias and one drift terms for each year up to deg/ord 90; C21/S21 non modified
	Solid Earth tides: from IERS2003 conventions	Unchanged
	Ocean tides: FES2012	Ocean tides: FES2014
	Oceanic/atmospheric gravity: 6hr NCEP pressure fields (70x70) + tides from Biancale-Bode model	Oceanic/atmospheric gravity: 3hr dealiasing products from GFZ AOD1B RL06
	Pole tide: solid Earth and ocean from IERS2010 conventions	Unchanged
	Third bodies: Sun, Moon, Venus, Mars and Jupiter	Unchanged
Surface forces	Radiation pressure model: calibrated semi- empirical solar radiation pressure model	Unchanged
	Earth radiation: Knocke-Ries albedo and IR satellite model	Unchanged
	Atmospheric density model: DTM-13 for Jason satellites, HY-2A, and MSIS-86 for other satellites	Atmospheric density model: DTM-13 for Jason satellites, HY-2A, and MSIS-00 for other satellites
Estimated dynamical parameters	Stochastic solutions	Unchanged
Satellite reference	Mass and center of gravity: post-launch values + variations generated by Control Center	Unchanged
	Attitude model:	Refined nominal attitude laws
	For Jason satellites: quaternions and solar panel orientation from control center, completed by nominal yaw steering law when necessary	
	Other satellites: nominal attitude law	
Displacement of reference points	Earth tides: IERS2003 conventions	Unchanged
	Ocean loading: FES2012	Ocean loading: FES2014
	Pole tide: solid earth pole tides and ocean pole tides (Desai, 2002), cubic+linear mean pole model from IERS2010	Pole tide: solid earth pole tides and ocean pole tides (Desai, 2002), new linear mean pole model
	S1-S2 atmospheric pressure loading, implementation of Ray & Ponte (2003) by van Dam	Unchanged

	Reference GPS constellation: JPL solution - fully consistent with IGS08	Reference GPS constellation: GRG solution - fully consistent with IGS14
Geocenter variations	Tidal: ocean loading and S1-S2 atmospheric pressure loading	Unchanged
	Non-tidal: seasonal model from J. Ries, applied to DORIS/SLR stations	Non-tidal: full non-tidal model (semi- annual, annual, inter-annual) derived from DORIS data and the OSTM/Jason-2 satellite, applied to DORIS/SLR stations and GPS satellites
Terrestrial Reference Frame	Extended ITRF2008 (SLRF/ITRF2008, DPOD2008, IGS08)	Extended ITRF2014 (SLRF/ITRF2014, DPOD2014, IGS14)
Earth orientation	Consistent with IERS2010 conventions and ITRF2008	Consistent with IERS2010 conventions and ITRF2014
Propagations	SLR troposphere correction: Mendes-Pavlis	Unchanged
delays	SLR range correction: constant 5.0 cm range correction for Envisat, elevation dependent range correction for Jason	SLR range correction: geometrical models for all satellites
	DORIS troposphere correction: GPT/GMF model	DORIS troposphere correction: GPT2/VMF1 model
	DORIS beacons phase center correction	Unchanged
	GPS PCO/PCV (emitter and receiver) consistent with constellation orbits and clocks (IGS08 ANTEX), pre-launch GPS receiver phase map	GPS PCO/PCV (emitter and receiver) consistent with constellation orbits and clocks (IGS14 ANTEX), in-flight adjusted GPS receiver phase map
	GPS: phase wind-up correction	Unchanged
Estimated measurement parameters	DORIS: one frequency bias per pass, one troposphere zenith bias per pass	DORIS: one frequency bias and drift (for "SAA stations") per pass, one troposphere zenith bias per pass, horizontal tropospheric gradients per arc
	SLR: Reference used to evaluate orbit precision and stability	Unchanged
	GPS: floating ambiguity per pass, receiver clock adjusted per epoch	GPS: fixed ambiguity (when possible) per pass, receiver clock adjusted per epoch
Tracking Data corrections	Jason-1 Doris data: updated South Atlantic Anomaly model (JM. Lemoine et al.) applied before and after DORIS instrument change	Unchanged
	DORIS time-tagging bias for Envisat and Jason aligned with SLR before and after instrument change	Unchanged
Doris Weight	1.5 mm/s (1.5 cm over 10 sec)	Process data down to as low elevation angles as possible (from 10° to 5° elevation cut-off angle) with a consistent down-weighting law

	For Jason-1, SAA DORIS beacons weight is divided by 10 before DORIS instrument change	Unchanged
SLR Weight	15 cm Reference used to evaluate orbit precision and stability	Unchanged
GPS Weight	2 cm (phase) / 2 m (code)	Unchanged