	GDR-B		GDR-C		
	Jason-1	Envisat	Jason-1	Envisat	
Time Span	Cycle 1 to 232	Cycle 41 (arc 171) to 67 (arc 305)	Complete reprocessig	Complete reprocessig	
Reference System					
Polar motion and UT1	IERS bulletin C04 with IERS 1996 daily and sub-daily corrections		IERS bulletin C04 consistent with ITRF2005, with IERS 1996 sub-daily corrections		
Doris coordinates	DPOD2000		DPOD2005		
SLR coordinates	ITRF 2000 (with minor corrections for a few SLR stations)		SLRF2005, including station biases		
Displacement of reference poi	ints				
Earth tides	IERS 2003 Solid Earth tides		Unchanged		
Ocean loading	FES 1999 (SLR only)		FES 2004 (SLR and Doris)		
Pole tides	Solid Earth Pole tide from IERS2003 (SLR only)		Solid Earth Pole tide from IERS2003 (SLR and DORIS)		
Satellite reference					
Mass and center of gravity	Post-Launch values + variations generated by Control Center				
Attitude Model	Quaternions from control center, completed by nominal yaw steering law when necessary	Nominal law	Unchanged		
Gravity					
Gravity field (static)	EIGEN-CG03C		EIGEN-GL04S		
Gravity field (time varying)	Drifts from EIGEN-CG03C, on zonal harmonics up to degree 4		Annual+Semiannual 50x50 from EIGEN-GL04S-ANNUAL; No drift		
Earth tides	IERS 2003 Solid Earth tides		Unchanged		
Pole tide	Solid Earth Pole tide from IERS2003		Solid Earth and Ocean Pole tide from IERS2003		
Ocean tides	FES 2004 (all principal constituents, with admittance)		Unchanged		
Atmospheric tides	Haurwitz & Cowley		Unchanged		
Atmospheric gravity	None		NCEP-derived 20x20 field at 6 hr interval (AGRA service at GSFC)		
Third bodies	Sun, Moon, Venus, Mars and Jupiter third bodies		Unchanged		
Surface forces and empiricals	3				
Radiation Pressure model	Thermo-optical coefficient from pre-launch box and wing model, with smoothed Earth shadow model		Updates in coefficients of +Y/Y and +X sides and in the value of the body-fixed X-force	Unchanged	
Radiation pressure scale coefficient	Fixed to 0,97 (set to minimize the amplitude of 1/rev empiricals)	Adjusted, with a priori constraint	Unchanged	Fixed to 1,045 (set to minimize the amplitude of 1/rev empiricals)	
Earth radiation	Knocke-Ries albedo a	and IR satellite model	Unchanged		
Atmospheric density model	MSIS86 model, with best available solar activity	DTM 94, with best available solar activity	Unchanged		
Drag coefficients	Adjusted every two revolutions, with apriori loose constraint		Unchanged		
1/rev empiricals	Every 12 hours (depending on GPS availability)	Every 24 hours	Unchanged		

	GDR-B		GDR-C	
	Jason-1	Envisat	Jason-1	Envisat
Doris				
Troposphere correction	CNET1 model, vertical bias adjusted per pass		Unchanged	
Frequency	1 frequency bias adjusted per pass		Unchanged	
South Atlantic Anomaly	SAA model applied before the instrument change	Not applicable	SAA model applied over the entire series	Not applicable
Weight	1.5 mm/s (for Jason-1 : underweighting of the SAA stations)		Unchanged	
Datation bias (to compensate for along-track inconsistency of Doris orbits wrt SLR/GPS measurements)	6,0 μsec	6,5 μsec	6,0 μsec before instrument change (cycle 91) and 8,8 after	Unchanged
SLR				
Troposphere correction	Marini-Murray		Mendes-Pavlis	
Retroreflector correction	Constant ranging correction		Elevation dependent ranging correction	Constant ranging correction
Biases	Bias per pass solved for a few stations		Fixed biases consistent with SLRF2005, bias per pass solved for a few stations	
Weight	Globally 10 cm (some SLR stations underweighted)		Unchanged	
GPS				
Constellation ephemeris and clocks	JPL precise solution at IGS	Not applicable	Before GPS week 1400, JPL solution has been aligned with IGS05; clocks remain unchanged	Not applicable
Sampling for POD	5 min	Not applicable	Unchanged	
Phase correction diagrams	Receiver only	Not applicable	Emitter / Receiver , updated	Not applicable
phase windup correction	Applied	Not applicable	Unchanged	
Phase ambiguity	Floating ambiguity adjusted per pass	Not applicable	Unchanged	
Receiver clock	Adjusted at every epoch	Not applicable	Unchanged	
Weight	Phase: 1 cm / Code: 1 m	Not applicable	In order to have a more continous solution even after GPS failure, GPS weight has been reduced by a factor 10	Not applicable