

# Supplementary material to “Ocean Gravity Models From Future Satellite Missions”

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Table 1

Altimetry Mission		Year	Repetitive-ness	Maximum latitude	Measurement spacing at the Equator	Height RMS accuracy	Slope accuracy
Current and past missions	GEOSAT	1985-86	drifting	72°	4 km	13 cm	3.2 $\mu$ Rad at 9 km *
		1986-90	17 days		164 km	6.5 cm **	2.2 $\mu$ Rad at 9 km *
	TOPEX	1992-2005	10 days	66°	315 km	1.2 cm **	1.2 $\mu$ Rad at 9 km *
	ERS-1	1992-93+	35 days	82°	79 km	2.5 cm **	3.6 $\mu$ Rad at 9 km *
		1995-96					
		1994-95	168 days		8 km	13 cm **	
	Jason-1	2001-...	10 days	66°	315 km	1.7 cm ***	1.7 $\mu$ Rad at 10 km
Jason-2	2008-...	cal/val phase					
Planned missions	Cryosat-2	2010	369 days	88°	uncorrelated	3.5 cm NRT	2.1 $\mu$ Rad at 10 km
	SARAL	2010	35 days	82°	160 km	3.2 cm NRT	1.5 $\mu$ Rad at 10 km
	Sentinel-3	2011	27 days	81°	100 km	3.0 cm NRT	2.1 $\mu$ Rad at 10 km
Proposed missions	ABYSS	not funded	drifting	50-63°	6 km	uncorrelated	1 $\mu$ Rad at 6 km
	SWOT	2016?	22 days	78°	1 km at best without gap due to its 140 km swath-width	Varies along the swath, mean 3cm, max 4cm at edges	Max 0.8 $\mu$ Rad at 5 km
	GRAL	2016?	265 days	82°	5 km	uncorrelated	1 $\mu$ rad at 10 km

Table 1: Main parameters of past and present altimetric missions (NRT=near real time). "Measurement spacing" avoids any possible confusion between footprint and resolution.

Sources: \* Sandwell et al., 2009; \*\* Schaeffer et al, 1998; \*\*\* Leben et al, 2003.

Schaeffer P., F. Hernandez, P.-Y. Le Traon, F. Mertz, and P. Baharel (1998): *A Mean Sea Surface dedicated to Ocean Studies: Global Estimation*. Poster Session EGS Nice, France.

Leben R.R. & B.S Powell (2003): *Accuracy assessment of jason-1 and TOPEX/POSEIDON Along-Track Sea Surface Slope*, In *Marine Geodesy*, 26, Numbers 3–4, pp. 355–366.