ALTIMETER CROSSOVER EVALUATIONS OF RECENT OCEAN TIDE MODELS

TOPEX/POSEIDON Cycles 82-95 (10-day Repeat)

	Crossover Residual rms in mm (no. of obs)		
	Global Ocean	Deep Ocean (>800 m depth)	Shallow Ocean (≤800 m depth)
CSR3.0	58.2 (53058)	57.4 (50001)	100.5 (3057)
SR95	59.1 (50259)	58.3 (47709)	101.6 (2550)
RSC94	60.6 (52281)	59.8 (49759)	107.8 (2522)
FES95.2.1	61.1 (52629)	60.1 (49943)	125.6 (2686)
DW95.1	59.8 (52967)	58.7 (49998)	117.8 (2771)
TPX0.2	61.7 (52832)	60.7 (49971)	107.2 (2861)
AG95.1	65.8 (52645)	65.2 (49946)	130.5 (2856)
FES95.1	65.9 (52506)	64.9 (49855)	119.3 (2651)
KANTHA.2	61.6 (52998)	60.6 (50001)	112.6 (2997)
ORI	66.5 (52802)	65.2 (49946)	130.5 (2856)
GSFC94A	70.7 (52967)	69.5 (49779)	131.1 (2569)

Edit Criteria: Cx times > 3.5 days, |rms|>60 cm. Latitude weighted. Data weights: 1, except for shallow water or oceanic active data (σ=2), and when |rms|>30 cm (σ=4).

CSR

ADVANCES IN GLOBAL OCEAN TIDE MODELING

Model	Crossover Variance (cm^2)	Sea Level* Tidal Power (cm^2)	Improve. Over SCH (cm^2)
SCH (1980)	9^2	4.8^2	-
C&R (1990)	8^2	4.3^2	2.1^2
1995 Models	6^2	1.1^2	4.7^2

* Schlax [1995] sea level analysis
Crossover variance = sqrt(2) times height variance

CSR