



CNES/CLS AC STATUS ON STANDARDS/MODELS

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New Models and Standards recommended by IERS

THEME		GOP	GRG	GSC
Earth rotation	Linear mean pole from updated IERS conventions	Yes	Yes	Yes
	Subdaily pole model from Desai & Sibois	Yes	Yes	To be implemented
Gravity field	Time variable gravity field	EIGEN-GRGS.RL04	EIGEN-GRGS.RL04	GOCO05S + 5x5 adjusted biweekly
Ocean tides	Station displacements (ocean loading)	To be implemented FES2014b	To be implemented FES2014b	GOT4p10c
	Gravitational attraction	To be implemented FES2014b	FES2014b	GOT4p10c
Other	Dealiasing Products	?	AOD RL06 (GFZ)	?

Gravity field / Earth rotation / Ocean tides

❑ New model and standards

DORIS data processing from September 2017 to October 2018

OLD / NEW

- EIGEN-GRGS.RL03 / EIGEN-GRGS.RL04
- FES2012 / FES2014b
- Linear mean pole from updated IERS

SATELLITE	DORIS RMS (mm/s) OLD / NEW	Measurements Number OLD / NEW
JASON-2	0.327 / 0.327	54453 / 55683
CRYOSAT-2	0.346 / 0.346	29237 / 29933
HY-2A	0.338 / 0.338	35837 / 36719
SARAL	0.330 / 0.329	32092 / 32899
JASON-3	0.351 / 0.351	55250 / 56426
SENTINEL-3A	0.361 / 0.360	31687 / 32781
SENTINEL-3B	0.381 / 0.380	30161 / 32273

❑ Subdaily pole model from Desai&Sibois

DORIS data: Jason-3 and Sentinel3-A from January to December 2018

in red with Subdaily pole model from Desai&Sibois

SATELLITE	DORIS RMS (mm/s)	Measurements Number
JASON-3	0.352 / 0.352	55440 / 55440
SENTINEL-3A	0.361 / 0.361	32459 / 32459

- *No significantly impact on the orbit*