MOI – 2020 WP

Task	PI	Description	Req. for IMMERSE
AGRIF-03_jchanut_vert_coord_interp	J. Chanut, J. Harle	Vertical coord. Change with AGRIF	Yes
AGRIF-04_jchanut_tstepping	J. Chanut	Anticipate RK3 with AGRIF + coupling at barotropic time step	Yes
ASINTER-01_ohernandez_traqsr_5bands	O. Hernandez	5 bands solar penetration scheme	No
ASINTER-06_gsamson_ABL_improvement	G. Samson	ABL corrections and updates	Yes
KERNEL-05_jchanut_ztilde	J. Chanut	A "Working" z-tilde coordinate	Yes
TOP-03_cbricaud_CRS	C. Bricaud	Sustain BGC coarsening in NEMO 4	Yes
ENHANCE-09_rbourdal_massfluxconvection	R. Bourdallé-Badie	Implement a non local convection scheme	No
ENHANCE-13_gsamson_ABL_TOOLS	G. Samson	ABL pre-processing tool	Yes
VALID-08_gsamson_ORCA-ABL-BLK	G. Samson	Validate ABL and BLK options in eORCA025/12	Yes
VALID-09_cbricaud_ORCA36	C. Bricaud	Run eORCA36 experiments	Yes
PUB-01_cbricaud_crs	C. Bricaud	Coarsening description in GMD	-

Task	Progress	Merged in trunk	Will it be ready ?
AGRIF-03_jchanut_vert_coord_interp	• Running new test cases at the moment (DOME,…) • Testing matching strategies (Python) to nest s into z • New NESTING TOOLS to be updated (not started yet)	**No**	**Yes**
AGRIF-04_jchanut_tstepping	• Not started	**No**	**Yes but likely incomplete**
ASINTER-01_ohernandez_traqsr_5bands	• Was depending on Andrew's changes in traqsr	**No**	**Postponed**
ASINTER-06_gsamson_ABL_improvement	• Already merged in "intermediate" trunk	**Yes**	**Yes**
KERNEL-05_jchanut_ztilde	• A NEMO 4.01 branch does exist. • Has been validated in multiyear ORCA025 experiments (NOCS). • Need to adapt to key_qco changes, RK3, etc… • What is required for IMMERSE is a bit unclear to me	**No**	**Very much likely to be postponed**

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Task	Progress	Merged in trunk	Will it be ready ?
TOP-03_cbricaud_CRS	• Reviewed strategies to have online BGC coarsening • Synthesis available	No	Likely incomplete
ENHANCE-09_rbourdal_massfluxconvection	• Tested in 1d in NEMO 4.01: cf *Giordani et al., JAMES 2020* • Under testing in 3D	No	Likely incomplete
ENHANCE-13_gsamson_ABL_TOOLS	• ABL tools now compliant with NEMO standard.	Yes	Yes
VALID-08_gsamson_ORCA-ABL-BLK	• Not started	NA	NA
VALID-09_cbricaud_ORCA36	• Short runs performed • Hindcast scheduled before the end of 2020	NA	NA
PUB-01_cbricaud_crs	• Coarsening paper under final review in GMD	NA	NA