

2026: Omega 1-year Roadmap

Jan 2026 - Dec 2026

Major Goal	Epics	Start Date	Due Date
Omega 1	Pressure gradient force	Jan 1	Mar 1
Omega 1	Vertical and Horizontal advection	Jan 1	Mar 1
Omega 1	Surface forcing	Jan 1	Mar 1
Omega 1	Test cases for v1	Jan 1	Mar 1
Omega 2	Mechanical coupling to E3SM (ocn_comp_mct, build system, etc..)	Mar 1	Jul 31
Omega 2	cell-centered velocity reconstruction	Mar 1	Jul 31
Omega 2	Split-explicit time stepping	Mar 1	Jul 31
Omega 2	Physics of coupling to E3SM (e.g. frazil and heat/salinity budgets between ocean/ice)	Jan 1	Jul 31
Omega 2	Vertical ocean turbulence (KPP)	Mar 1	Jul 31
Omega 2	Monthly time averaging and basic analysis routines	May 1	Jul 31
Omega 2	Salinity restoring	Jul 1	Sep 1
Omega 2	Submesoscale eddies	Mar 1	Oct 1
Omega 2	High order pressure gradient	Mar 1	Dec 1
Omega 2	AMOC and advanced analysis routines	Jul 1	Dec 1
Omega 2	Final component testing	Sep 1	Dec 1
Omega 2	Analysis of integrative omega 2 tests (stand alone global and C-cases)	Oct 1	
Omega 2	Remap capability for AI ready data	Oct 1	
Omega 2	Description paper (E3SM G-cases)	Dec 1	