






## Marine model descriptions

*This is an automatically generated table.*

















































Want to **add your model** to this list? Please complete this [questionnaire](#) first. Feel free to contact us [CSDMSweb@colorado.edu](mailto:CSDMSweb@colorado.edu) or use the wiki and follow one of the model links if you want to update the information about a model that is already listed.

Ready to **submit model source code** to the CSDMS repository? Zip or tar the source code and mail it to: [CSDMSsupport@colorado.edu](mailto:CSDMSsupport@colorado.edu), or let us know when the files are too large, we can open a ftp site for you so you can upload your model.


### Table legend

-  Source code not yet available
-  Source code available through owner
-  Source code available through CSDMS repository
-  Source code has a [IRF interface](#)
-  Source code does NOT have a IRF interface but it is possible to create a [IRF interface](#)

*There are 29 marine model descriptions available in the table below:*

Program	Description	Developer	Status
<a href="#">BarSim</a>	simulates cross shore coastal responses at millennial scale	<a href="#">Storms, Joep</a>	 
<a href="#">Bing</a>	Submarine debris flows	<a href="#">Hutton, Eric</a>	 
<a href="#">Bio</a>	Biogenic mixing of marine sediments	<a href="#">Hutton, Eric</a>	 
<a href="#">CSt ASMITA</a>	Aggregate scale morphodynamic model of integrated coastal systems	<a href="#">Niedoroda, Alan</a>	 
<a href="#">Carbonate GPM</a>	Carbonate deposition module for GPM	<a href="#">Hill, Jon</a>	 
<a href="#">Compact</a>	Sediment compaction	<a href="#">Hutton, Eric</a>	 
<a href="#">Delft3D</a>	3D hydrodynamic and sediment transport model	<a href="#">Delft3D, Support</a>	 
<a href="#">Diffusion</a>	Diffusion of marine sediments due to waves, bioturbation	<a href="#">Hutton, Eric</a>	 
<a href="#">FanBuilder</a>	Process-based stratigraphic evolution of turbidite fans model	<a href="#">Groenenberg, Remco</a>	 
<a href="#">Gvg3Dp</a>	3D Numerical Simulation of Turbidity Currents	<a href="#">Nasr Azadani, Mohamad Mehdi</a>	 
<a href="#">Inflow</a>	Steady-state hyperpycnal flow model	<a href="#">Hutton, Eric</a>	 
<a href="#">LITHFLEX1</a>	Lithospheric flexure solution	<a href="#">Furlong, Kevin</a>	 
<a href="#">LITHFLEX2</a>	Lithospheric flexure solution for a broken plate	<a href="#">Furlong, Kevin</a>	 
<a href="#">MITgcm</a>	The MITgcm (MIT General Circulation Model) is a numerical model designed for study of the atmosphere, ocean, and climate.	<a href="#">Lovenduski, Nicole</a>	 
<a href="#">Plume</a>	Hypopycnal sediment plume	<a href="#">Hutton, Eric</a>	 
<a href="#">Princeton Ocean Model (POM)</a>	POM: Sigma coordinate coastal & basin circulation model	<a href="#">Ezer, Tal</a>	 
<a href="#">ROMS</a>	Regional Ocean Modeling System	<a href="#">Arango, Hernan G.</a>	 
<a href="#">SEDPAK</a>	Models the sedimentary fill of basins	<a href="#">Kendall, Christopher</a>	 
<a href="#">SEOM</a>	Spectral Element Ocean Model	<a href="#">Haidvogel, Dale</a>	 
<a href="#">SIMSAFADIM</a>	Finite element model for fluid flow, clastic, carbonate and evaporate sedimentation	<a href="#">Bitzer, Klaus</a>	 
<a href="#">Sakura3</a>	Equation hyperpycnal flow model	<a href="#">Kubo, Yusuke</a>	 
<a href="#">Sedflux</a>	Basin filling stratigraphic model	<a href="#">Hutton, Eric</a>	 
<a href="#">Sedsim</a>	Sedimentary process modeling software	<a href="#">Griffiths, Cedric</a>	 
<a href="#">Sedtrans05</a>	Sediment transport model for continental shelf and estuaries	<a href="#">Neumeier, Urs</a>	 
<a href="#">SimClast</a>	basin-scale 3D stratigraphic model	<a href="#">Dalman, Rory</a>	
<a href="#">Subside</a>	Flexure model	<a href="#">Hutton, Eric</a>	
<a href="#">Symphonie3D</a>	primitive equation ocean model	<a href="#">Marsaleix, Patrick</a>	
<a href="#">WAVEWATCH III ^TM</a>	Spectral wind wave model	<a href="#">Tolman, Hendrik</a>	
<a href="#">WSGFAM</a>	Wave and current supported sediment gravity flow model	<a href="#">Friedrichs, Carl</a>	

*Questionnaires still need to be filled out for the following models:*

<b>Program</b>	<b>Description</b>	<b>Developer</b>	<b>Source code</b>
NCOM	<i>Model:</i> Navy Coastal Ocean Model	<b>Keen, Tim</b>	
NearshorePOM	<i>Model:</i> Nearshore version of POM (Princeton Ocean Model)	<b>Kirby, Jim</b>	