

## Models from FIMR used in the SEPRISE demonstration

<b>Institution</b>	FIMR
<b>Model Name</b>	BalEco
<b>Characteristics</b>	Ocean circulation model (based on MITgcm) Ocean ecosystem model (Baltic Sea ecosystem)
<b>Area Covered</b>	Sea Area: Baltic Sea
<b>Variables Predicted</b>	T,s,U,V,(W),eta DIN, DIP, DSi, 4*phytoplankton
<b>Operational / Pre-operational</b>	Operational
<b>Source of Atmospheric Forcing</b>	ECMWF
<b>Length of Forecast</b>	72 h
<b>How many forecast cycles per day, i.e. how often is the model run?</b>	2

<b>Additional Information</b>			
<b>Numerical basis of the model</b>	Model Area	Lon	Lat
		Lon	Lat
	The south-western corner of the grid is located at 53:85± N, 8:7± E		
	Number of grid points in X-Y axis		
	Number of vertical levels	21	
<b>Resolution (° or km)</b>	6 nm		
<b>Computer used</b>	Linux cluster, SGI, IBM		
<b>Validation method</b>	ME, MAE, RMSE against in situ observations; numerous process studies		
<b>Use of model</b>		Research	Public
	X	Governmental	Commercial
		Private	

<b>Institution</b>	FIMR
<b>Model Name</b>	WAM
<b>Characteristics</b>	Wave model
<b>Area Covered</b>	Sea Area: Baltic Sea
<b>Variables Predicted</b>	Significant wave height, mean wave direction, mean wave period, peak wave period, peak wave direction, (for integrated parameters of total sea, wind sea and swell), friction velocity, stokes drift, wave stress, drag coefficient
<b>Operational / Pre-operational</b>	Operational
<b>Source of Atmospheric Forcing</b>	Wind speed and direction at 10m height from FMI HIRLAM.
<b>Length of Forecast</b>	54 hours
<b>How many forecast cycles per day, i.e. how often is the model run?</b>	4 cycles per day

<b>Additional Information</b>	
<b>Numerical basis of the model Resolution (° or km)</b>	0.1° x 0.2°
<b>Computer used</b>	
<b>Validation method</b>	
<b>Use of model</b>	