

Condensed data request table for hindcasted and projected modelled variables used in fish and foodweb modelling in Eco-support.

Dep. Var.	Forcing var.	depth	area	Temporal resolution (month, season?)	Time period needed
Cod recruitment	Reproductive volume	Defined by vertical profiles of salinity and oxygen (physiological thresholds to be provided)	Bornholm, Gdansk, Gotland Arkona Basins	Monthly; annually	1900- 2100 (1850- 2100)
Cod and herring recruitment	Salinity	80-100m (Gotland B) 70-90m (BB) 80-100m (Gdansk B)	Got.B (BY 15) BB (BY 4- 5) (station nr) For Gdansk, use same lat. and long. as for RV definition	Monthly	1900- 2100
Sprat recruitment	Temperature	0-10m 40-60m	Got. B (BY 15) BB (BY 4- 5) (station nr) For Gdansk, use same lat. and long. as for RV definition	Monthly	1900- 2100
Sprat recruitment	Temperature	0-10m	Baltic Proper	Monthly	1900- 2100
Vertical overlap among herring, cod, sprat	Vertical profiles of salinity, temperature and oxygen at 1 m intervals	Whole water column (1 m vertical resoln.)	Near main monitoring stations in Bornholm, Gdansk, Gotland	Monthly	1974- 2100

			Arkona Basins		
Cod, sprat and herring recruitment	Biomass of total zooplankton (all lifehistory stages)	0-100 m	Got.B, Gdansk B, Bornholm B	May And August in all 3 areas	1900-2100
Cod and herring recruitment	<i>Pseudocalanus</i> spp. <sup>1)</sup> (biomass of all lifehistory stages)	0-100 m	Got.B, Gdansk B, Bornholm B	May And August in all 3 areas	1900-2100

- 1) For models only generating a generic zooplankton, not specified to species, biomass of total zooplankton replaces request for *Pseudocalanus*, *Acartia* and *Temora* projections.

Requested for Ecopath models:

time-series	target group	unit	time resolution	depth	area	specification	ref.
hypoxic area	macrozoobenthos	m <sup>2</sup>	annual mean		Baltic Proper	O <sup>2</sup> < 2ml/l	
spring phytoplankton production	spring phytoplankton	g ww/(m <sup>2</sup> yr <sup>-1</sup> )	3-month (March-May) total	entire water column	Gotland Basin (BY15), Bornholm Basin (BY5)	total diatom+dino flagellate production	
cyanobacteria production	cyanobacteria	g ww/(m <sup>2</sup> yr <sup>-1</sup> )	annual total	entire water column	Gotland Basin (BY15), Bornholm Basin (BY5)	total (all months) nitrogen fixing cyanobacteria production	
other phytoplankton production	other phytoplankton	g ww/(m <sup>2</sup> yr <sup>-1</sup> )	annual total	entire water column	Gotland Basin (BY15), Bornholm Basin (BY5)	total (all months) other phytoplankton production (excludes spring	

						phytoplankton and cyanobacteria)	
spring phytoplankton biomass	spring phytoplankton	g ww/m <sup>2</sup>	3-month (March-May) mean	entire water column	Gotland Basin (BY15), Bornholm Basin (BY5)	Mean spring phytoplankton (diatom+dinoflagellate) biomass	
cyanobacteria biomass	cyanobacteria	g ww/m <sup>2</sup>	annual mean	entire water column	Gotland Basin (BY15), Bornholm Basin (BY5)	mean (all months) nitrogen fixing cyanobacteria biomass	
other phytoplankton biomass	other phytoplankton	g ww/m <sup>2</sup>	annual mean	entire water column	Gotland Basin (BY15), Bornholm Basin (BY5)	mean (all months) other phytoplankton (excludes spring phytoplankton and cyanobacteria) biomass	

Data request table for Planfish:

Dep. Var.	Forcing var.	depth	area	Temporal resolution (month, season?)	Time period needed
Alternative forcing of cod & herring recruitment, and Pseudoc.	Salinity	0-10m, 10-20m, 20-30 m, etc until bottom depth	GB (BY 15) BB (BY 4-5) GD	Monthly	1900-2100
Alternative forcing of sprat, <i>Acartia</i> & <i>Temora</i>	Temperature	0-10m, 10-20m, 20-30 m, etc until bottom depth	GB (BY 15) BB (BY 4-5) GD	Monthly	1900-2100
Sprat recruitment	<i>Temora</i> spp. <sup>1)</sup> spp.(biomass of all lifehistory stages)	0-100 m	GB, GD, BB	May And August in all 3 areas	1900-2100
Juvenile cod and herring growth	Zoobenthos biomass (especially mysids, isopods and amphipods)		GB, GD, BB, GF, Landsort deep	Monthly	1900-2100
Zoobenthos biomass, juvenile cod and herring growth	Volume of anoxic bottoms		GB, GD, BB, GF, Landsort deep	Monthly	1900-2100
Sprat and herring growth	Cladocerans biomass (if possible divided in the species <i>Bosmina maritima</i> , <i>Podon</i> spp. and <i>Evadne nordmanni</i> )	0-100 m	GB, GD, BB, GF, Landsort deep	May, August, October	1900-2100


- 1) For models only generating a generic zooplankton, not specified to species, biomass of total zooplankton replaces request for *Pseudocalanus*, *Acartia* and *Temora* projections.