

Table S1. Source and extent of environmental data

Variable	Source	Temporal extent	Spatial resolution
Sea Surface Temperature	GHR SST Level 4 MUR (Chin et al. 2010) http://podaac.jpl.nasa.gov/dataset/JPL-L4UHfnd-GLOB-MUR	01/05/2004 30/09/2010	1 km
Geostrophic currents	AVISO product http://www.aviso.oceanobs.com/index.php?id=1275 (The altimeter products were produced by Ssalto/Duacs and distributed by Aviso, with support from Cnes http://www.aviso.altimetry.fr/duacs/)	01/05/2004 30/09/2010	1/8°x1/8° (14 km)
Primary production	Standard VGPM data http://orca.science.oregonstate.edu/2160.by.4320.monthly.hdf.vgpm.m.chl.m.sst4.php	01/05/2004 30/09/2010	9 km
Chlorophyll <i>a</i> concentration	Ocean Color MEaSUREs project (Maritorena et al. 2010) http://wiki.icess.ucsb.edu/measures/index.php/GSM	01/05/2004 30/09/2010	9 km