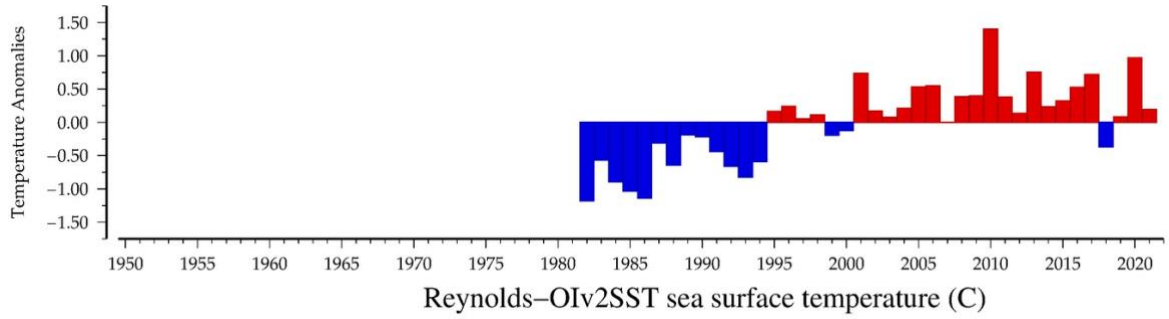
Coordinate Data (Latitude, Longitude)

Point 0:	20°54'00.0"N 16°54'00.0"W	or	20.900000°, -16.900000°
Point A:	20°59'31.9"N 16°55'04.8"W	or	20.992197°, -16.918004°
Point B:	20°28'31.5"N 16°28'56.9"W	or	20.475419°, -16.482460°
Point C:	19°37'11.0"N 16°33'17.0"W	or	19.619726°, -16.554723°

The following Satellite and Product data have been extracted for your area (POINT C)

NOTE: *Subregions that are located inland or on-land may not have any ocean data and cause empty or missing plots below.*

Reynolds/NOAA OI_v2.1_SST sea surface temperature time series (1982-2021)



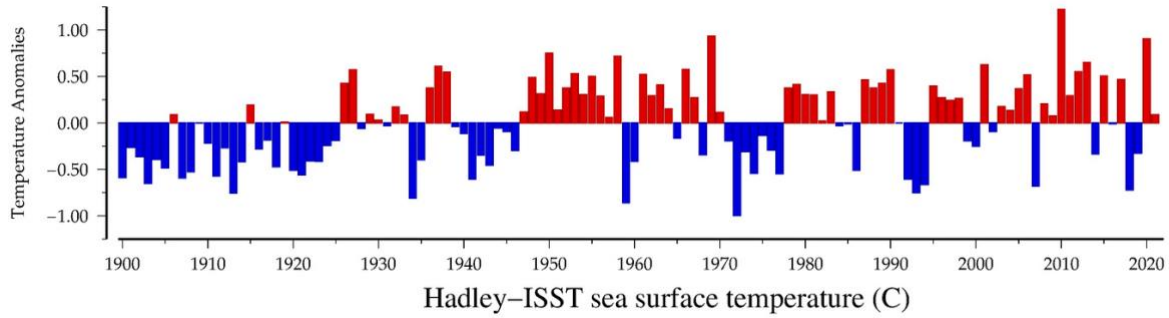
[dataRSST_ROI2sst.csv]

The **NOAA/Reynolds Optimum Interpolation Sea Surface Temperature Analysis (OI_v2.1_SST)**, *a high-resolution blended product based on satellite and in-situ data, was used to create a 39 year time series of sea surface temperatures for your selected region. While shorter in years than the HadISST below, its higher spatial resolution helps it better capture smaller scale features in the near coast and shelf waters.*

This is a new version of the NOAA OI-SST, which switched from v2.0 to v2.1 in April 2020. Details on the changes are summarized at the link below:

Original Data Link: https://www.ncdc.noaa.gov/oisst/optimum-interpolation-sea-surface-temperature-oisst-v21

HadISST sea surface temperature time series (1900-2021)

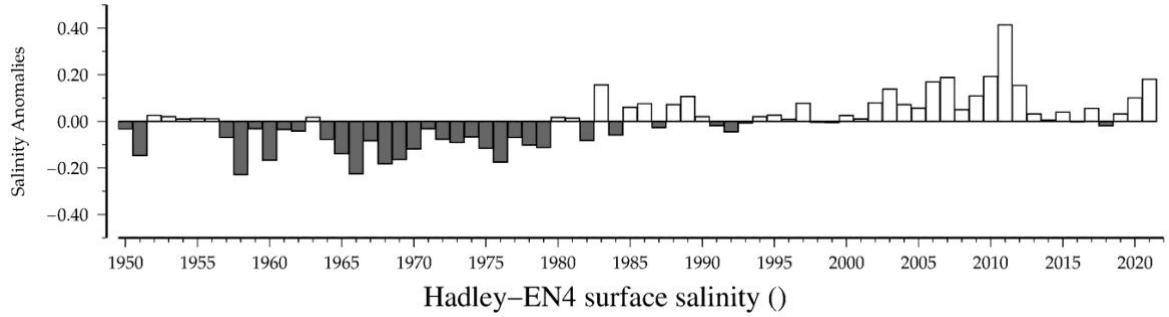


[dataRSST_HadISST.csv]

The **Hadley Centre Sea Ice and Sea Surface Temperature data set (HadISST)**, *a mediuam-resolution blended product based on in-situ and satellite (recent years only) data, was used to create a 120+ year time series of sea surface temperatures for your selected region.*

Original Data Link: https://www.metoffice.gov.uk/hadobs/hadisst/

Hadley EN4 salinity time-series (1950-2021)

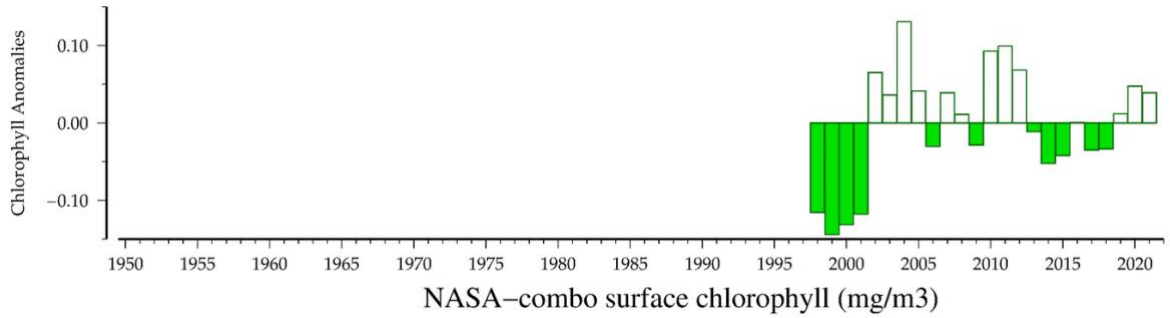


[dataPSAL_HEN4-z0005.csv]

The **Hadley EN4 subsurface salinity objective analysis** *was used to create a 60+ year of sea surface salinity (at 5 meters depth) from your selected region.*

Original Data Link: https://www.metoffice.gov.uk/hadobs/en4/

NASA combined-satellite chlorophyll time series (1998-2021)

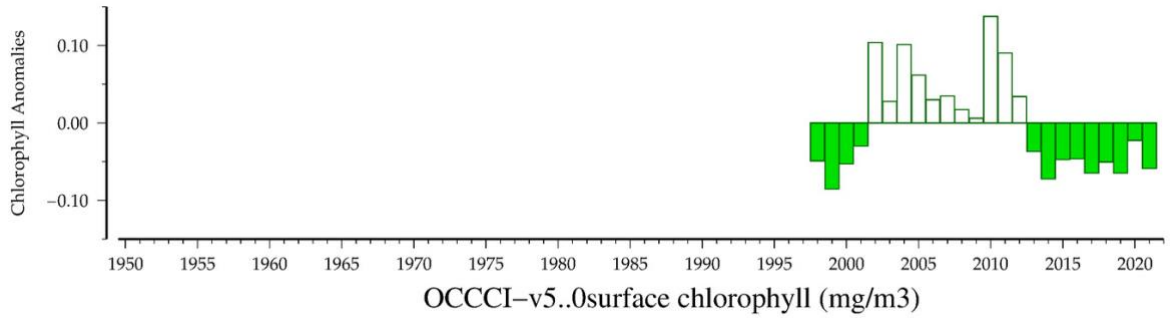


[dataCHLA_NASAcombo.csv]

The **NASA combined-satellite (NASAcombo)** *time series, a multiple-satellite cross-calibrated chlorophyll product, was used to create a 20 year time series of satellite-based chlorophyll for your selected region. NOTE this product is a 2018 reprocessing (version "p2018.0/p2018.1" that includes corrections for the 2012-onward MODIS-Aqua sensor issues. For simplicity, we are currently only using (intercalibrated) data from the SeaWifs and MODIS-Aqua platforms for our time stream.*

Original Data Link: https://oceancolor.gsfc.nasa.gov/

OCCCI satellite chlorophyll time series v5.0 (1998-2021)

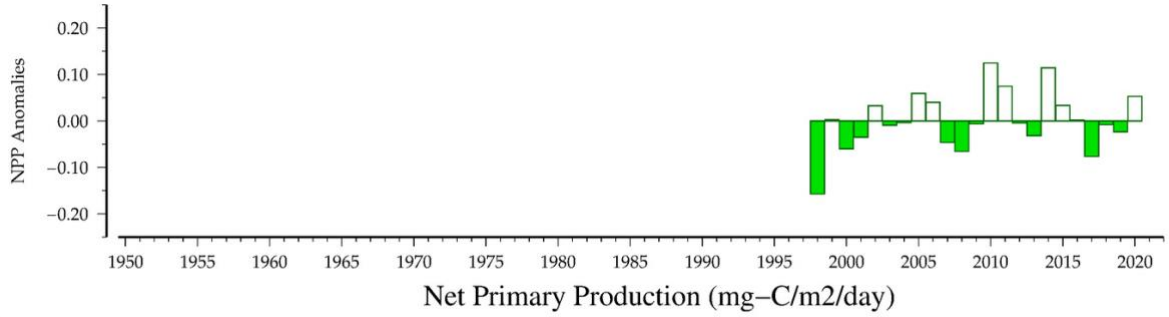


[dataCHLA_OCCCI-v50.csv]

The **Ocean Colour Climate Change Initiative (OCCCI) version 5.0 data set**, *a multiple-satellite cross-calibrated chlorophyll product, was used to create a 24 year (1998-2021) time series of satellite-based chlorophyll for your selected region. The OC-CCI "v5.0" product is a reprocessing of the previous "v2/v3/v4" products, that includes corrections to the post-2012 MODIS-A satellite. We are currently evaluating these model-adjusted data, as they are often significantly different from the "raw" NASA satellite data show earlier above.*

Original Data Link: https://www.oceancolour.org/

CbPM2 Net Primary Production (1998-*2020*)

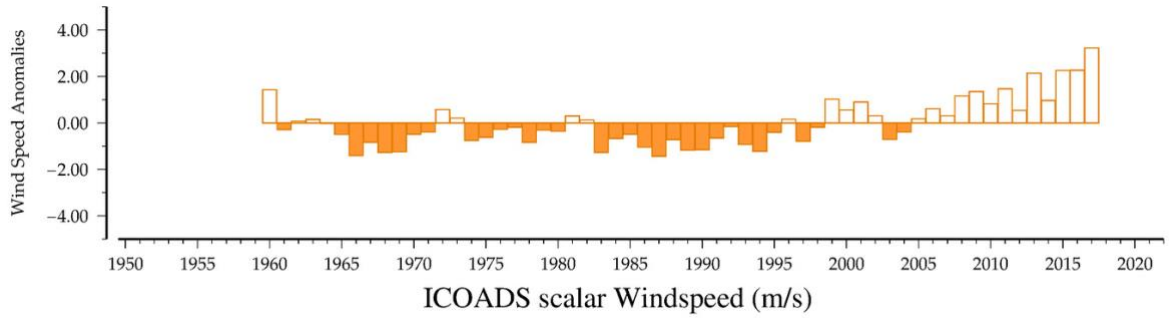


[dataNPP_CbPM2.csv]

The **Carbon-based Productivity Model Net Primary Production (CbPM2 NPP)** *is a model-based dataset of primary production data created by the Oregon State Ocean Productivity group. Please visit their website for additional details on this model.*

Original Data Link: https://www.science.oregonstate.edu/ocean.productivity/

ICOADS windspeed time-series (1960-*2017*)

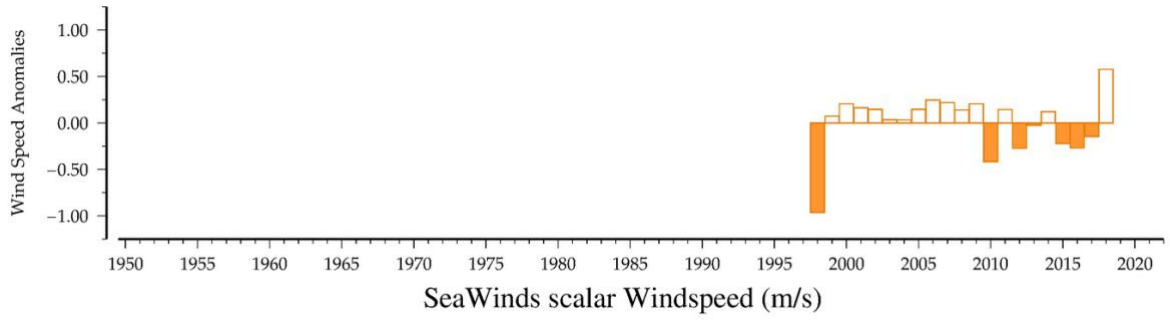


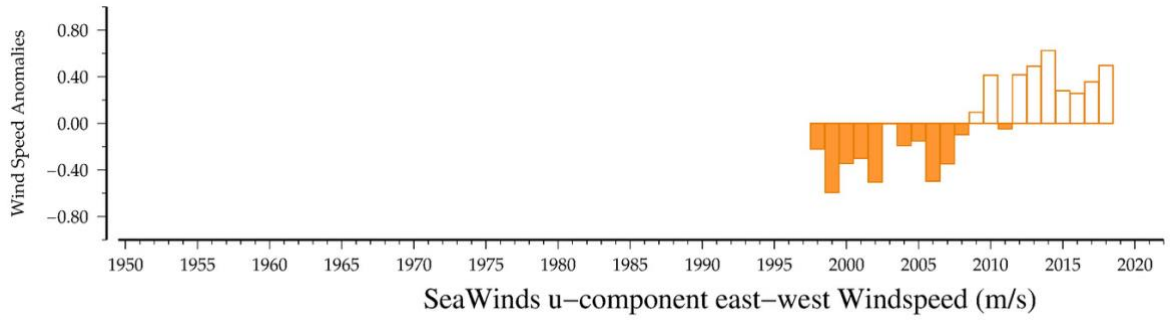
[dataWIND_ICOADS.csv]

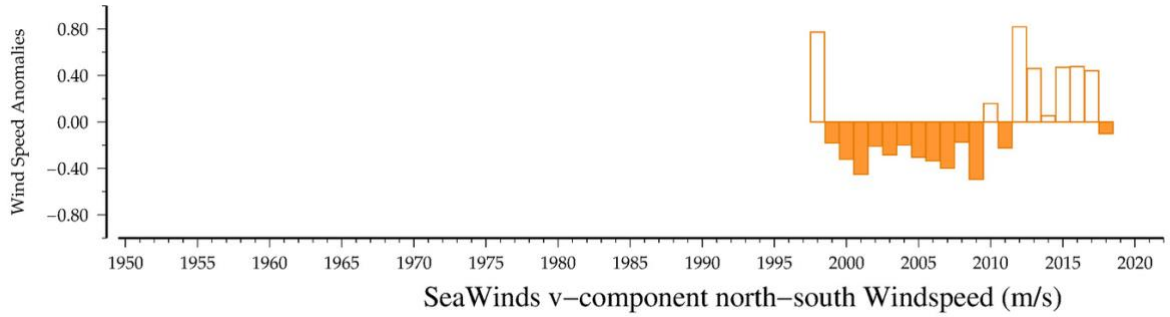
The **International Comprehensive Ocean-Atmosphere Data Set (ICOADS)**, *a 50+ year database of sea surface wind speed, was used to create a 50+ year time series of wind speeds from your selected region. ICOADS goes back farther than 1960, but becomes sparse and patchy in these older years.*

Original Data Link: https://icoads.noaa.gov/

SeaWinds Windspeed time-series (1998-*2018*)





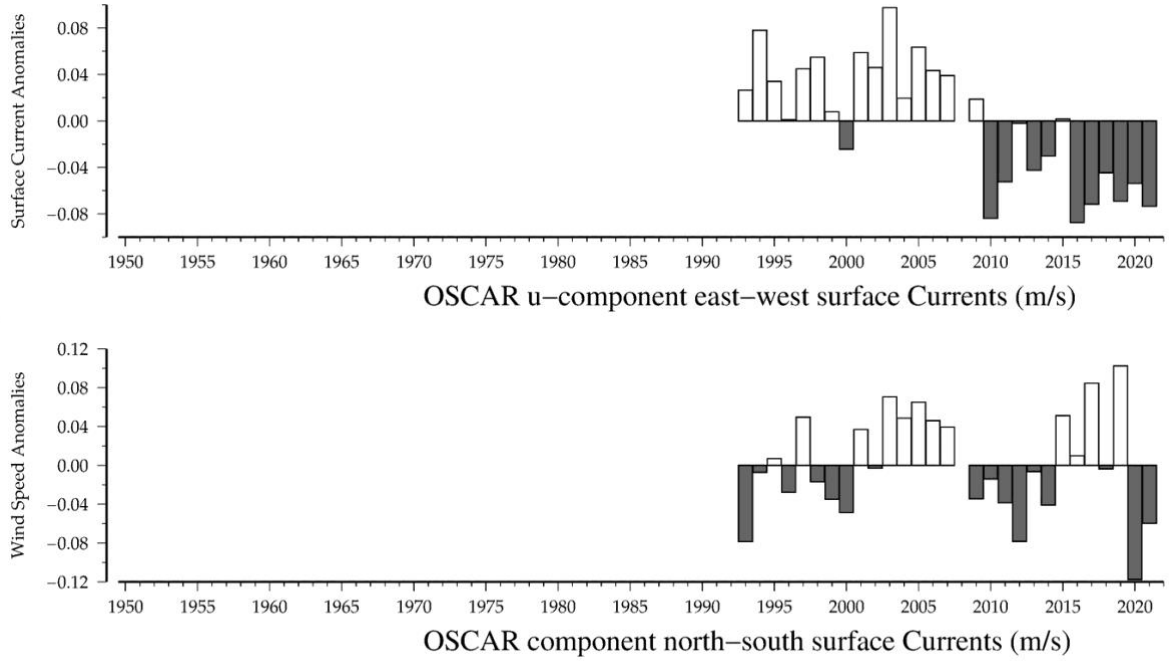


[dataWIND_SeaWinds-SCALAR.csv] [dataWIND_SeaWinds-u-EW.csv] [dataWIND_SeaWinds-v-NS.csv]

Blended Sea Winds (SeaWinds) *is a dataset of ocean surface vector winds and wind stresses created by blending data from multiple satellite observations.*

Original Data Link: https://www.ncdc.noaa.gov/data-access/marineocean-data/blended-global/blended-sea-winds

OSCAR surface currents time-series (1993-2021)

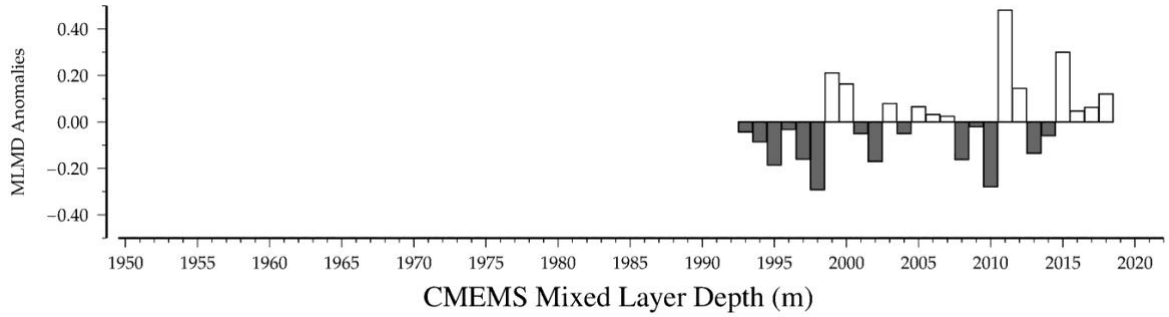


[dataCURR_OSCAR-u-EW.csv] [dataCURR_OSCAR-v-NS.csv]

OSCAR Surface Currents ("OSCAR") *is a model-based dataset of global surface currents (representing the upper 30 meters of the ocean) incorporating satellite surface height, wind, and temperature data.*

Original Data Link: https://www.esr.org/research/oscar/oscar-surface-currents/

CMEMS Mixed Layer Depth (1996-*2018*)



[dataMLD_CMEMS.csv]

The **Copernicus Marine Environment Monitoring Service (CMEMS) Mixed Layer Depth (MLD)** *data come from the GLORYS12V1 Global Reanalysis "PHY-001-030" model product, in which mixed layer depth is defined by sigma-theta.*

Original Data Link: https://www.copernicus.eu/en