

# Continental Shelf Carbon and Nitrogen Isotope Metadata

Last updated: December 5, 2016

---

**Water Sampling** Water samples were collected during National Oceanic and Atmospheric Administration (NOAA) ocean survey cruises. The samples were then analyzed for the stable isotope and particulate N concentrations at the US EPA Office of Research and Development Atlantic Ecology Division (US EPA ORD AED).

Raw NOAA cruise data can be downloaded from:

<http://www.nefsc.noaa.gov/HydroAtlas/>

While these data may provide additional environmental variable not reported here, these data do not report stable isotope or particulate N values.

---

**Data Sets:** This project centered on two main data sets that were collected during different sampling efforts. The Phase I data were collected between 2000 and 2005 and had fewer variables measured. The Phase II data were collected between 2010 and 2013 and included additional measured variables.

‘phaseI\_20161024.csv’: 233 obs. of 10 variables: NOTE: some missing values (NA)

‘phaseIINOA\_20161024.csv’: 209 obs. of 19 variables: NOTE: some missing values (NA)

---

## Phase II Data

Field	Definition
FID_	Sample identifier
Cruise	ID for NOAA sampling cruise
month	Month in which the sample was collected
year	Year in which the sample was collected
Station	ID for NOAA sample location
position	Whether sample was collected at the ‘Surface (Surf)’ or ‘Deep’
lat	Latitude
long	Longitude
d15N	Mean stable isotope measure for nitrogen
d13C	Mean stable isotope measure for carbon
discreteCh	Chlorophyll (discrete)
distMeters	Distance (in meters) of sample point to land
PN	Particulate Nitrogen

Field	Definition
Season	season of the year based on month sampled
temp	Temperature at sampling location and depth
sal	Salinity at sampling location and depth
depth	Depth to ocean floor (in meters) from General bathymetric Chart of the Oceans ( <a href="http://www.gebco.net">www.gebco.net</a> )
region	Marine Ecoregion from The Nature Conservancy ( <a href="http://maps.tnc.org">maps.tnc.org</a> )
NAO	Monthly North Atlantic Oscillation Index ( <a href="ftp://ftp.cpc.ncep.noaa.gov/wd52dg/data/indices/nao_index.tim">ftp://ftp.cpc.ncep.noaa.gov/wd52dg/data/indices/nao_index.tim</a> )

#### Phase I Data

Field	Definition
FID__	Sample identifier
month	Month in which the sample was collected
year	Year in which the sample was collected
lat	Latitude
long	Longitude
d15N	Mean stable isotope measure for nitrogen
d13C	Mean stable isotope measure for carbon
distMeters	Distance (in meters) of sample point to land
region	Marine Ecoregion from The Nature Conservancy ( <a href="http://maps.tnc.org">maps.tnc.org</a> )