

US EPA ARCHIVE DOCUMENT

Preliminary New Jersey Coastal 2003 Database

The purpose of this document is to provide an overview of the preliminary Coastal 2003 New Jersey database. These data are available to Coastal 2003 Partners for purposes of verification and validation and are not meant for public dissemination. This database will not be finalized until laboratory analyses of samples collected in the field are complete. Field data are stored in a format closely based on field datasheets. Data for Nutrients analyses are in the laboratory format provided. These have undergone initial QA checks. However they do not constitute a final database.

1) Database Overview

The data sets that make up the database are:

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|-------------------------|--|---|
| Date/Location Data: | STATIONS EVENTLOG BOATLOC SAMPLOG | Sampling Station Location Data Station Visit Data Detailed Sampling Location data All Samples collected at station |
| Water Quality Data: | WATRPHYS CTDRET NUTSAMPS | Water Quality Physical Measurements Data Water Quality QA data Water Quality Nutrients Sample Information |
| Sediment Quality Data: | SEDGRABS BENGRABS | Sediment Sample Information Benthic Sample Information |
| Fish/Lobster Size Data: | TISSUE FTRAWL | Tissue/Anatomical Measurements (fish, lobster, etc.) Fish Trawl Descriptive Data |

2) Data Set Descriptions:

STATIONS

| NAME | LABEL |
|----------|--|
| STATION | National Coastal Assessment Station Name |
| STAT_ALT | Alternate Site Code (A,B,C) |
| STATE | State where Station is Located |
| MAP | Station Map |
| ESTUARY | Estuary Name |
| STA_LAT | Latitude (decimal degrees) |
| STA_LNG | Longitude (decimal degrees) |
| ST_COOP | State Doing the Sampling |
| LOCAL_ID | Station Identifier Used by State |

EVENTLOG

| NAME | LABEL |
|----------|--|
| STATION | Station Identifier |
| STAT_ALT | Alternate Site Sampled (A, B, or C) |
| EVNTDATE | Event Date |
| CTDRET | Number of CTD Casts for Event |
| FLTCHL | Number of Chlorophyl Filters for Event |
| WTRNUT | Number of Dissolved Nutrient Samples for |
| WTRTSS | Number of TSS Samples for Event |

| | |
|---------|---|
| SEDTOX | Number of Sed Tox Samples for Event |
| SEDGRN | Number of Sed Grain Size Samples for Event |
| SEDORG | Number of Sed Organics Samples for Event |
| SEDMET | Number of Sed Metals Samples for Event |
| BENINF | Number of Benthic Infauna Samples for Event |
| STDTRL | Number of Standard Fish Trawls for Event |
| FSHCHM | Number of Fish Chemistry Samples for Event |
| FSHTQA | Number of Fish Taxon QA Samples for Event |
| FSPHPQA | Number of Fish Path. Samples for Event |

BOATLOC

| NAME | LABEL |
|----------|--|
| STATION | Station Identifier |
| EVNTDATE | Event Date |
| STAT_ALT | Alternate Site Sampled (A, B, or C) |
| VISNUM | Number of Visit to this Station |
| BOATNAME | Boat Used for Sampling Event |
| CRWCHIEF | Crew Chief During Sampling Event |
| CRWMEMB1 | Crew Member During Sampling Event (#1) |
| CRWMEMB2 | Crew Member During Sampling Event (#2) |
| CRWMEMB3 | Crew Member During Sampling Event (#2) |
| LANDCREW | Crew Member in Mobile Laboratory |
| VISITOR1 | Authorized Visitor (#1) |
| EVNTPURP | Reason Authorized Person is Present |
| WTH_SUN | Weather Conditions--Sunny (Y/N) |
| WTH_PSUN | Weather Conditions--Partly Sunny (Y/N) |
| WTH_OCST | Weather Conditions--Overcast (Y/N) |
| WTH_RAIN | Weather Conditions--Rainy (Y/N) |
| WTH_WIND | Weather Conditions--Windy (Y/N) |
| WTH_FOG | Weather Conditions--Foggy (Y/N) |
| SEACOND | Sea Conditions during Event |
| BEGTIME | Time of Beginning of Sampling Event |
| STADEPTH | Depth of Water at Station (m) |
| HTIDTIME | Time of High Tide on day of Sampling |
| STAMOVED | Was the Station Moved? |
| COORDFRM | Coordinates Taken from Which Instrument? |
| EVNT_LAT | Event Latitude-Decimal Degrees |
| EVNT_LNG | Event Longitude-Decimal Degrees |
| TRASH | Trash present at Station |
| PLASTIC | Trash at Station-Plastic |
| MEDWASTE | Trash at Station-Medical Waste |
| WOOD | Trash at Station- Wood |
| TIRES | Trash at Station-Tires |
| CANS | Trash at Station-Aluminum Cans |
| PAPER | Trash at Station-Paper |
| OILSLICK | Oil Slick on water at Station |
| OTH_TRSH | Other Trash as Station- description |
| STA_COMM | Station Information- comments |
| SAV | Submerged Aquatic Vegetation visible |
| MACROALG | Macro-Algae present at Station |
| INTERTID | Station is in Intertidal Zone |
| ENDTIME | Time Sampling Event Ended |
| PKGQABY | Data Package QA Person |

SAMPLOG

| NAME | LABEL |
|----------|------------------------------|
| SAMPLEID | Sample Identification Number |
| STATION | Station Identifier |

STAT_ALT Alternate Site Sampled (A, B, or C)
 EVNTDATE Event Date
 SAMPTYPE Code for Sample Type

WATRPHYS

| NAME | LABEL |
|----------|--|
| STATION | Station Identifier |
| EVNTDATE | Event Date |
| STAT_ALT | Alternate Site Sampled (A, B, or C) |
| SL_TEMP | Surface Layer-Temperature from CTD (deg. C) |
| SL_SAL | Surface Layer-Salinity from CTD (ppt) |
| SL_OXY | Surface Layer-Dissolved Oxygen from CTD (mg/l) |
| SL_PH | Surface Layer-pH (pH units) |
| SL_DEPTH | Depth of Surface Readings (m) |
| BL_TEMP | Bottom Layer-Temperature from CTD (deg. C) |
| BL_SAL | Bottom Layer-Salinity from CTD (ppt) |
| BL_OXY | Bottom Layer-Dissolved Oxygen from CTD (mg/l) |
| BL_PH | Bottom Layer-pH (pH units) |
| BL_DEPTH | Depth of Bottom Layer Readings (m) |

CTDRET

| NAME | LABEL |
|----------|--|
| STATION | Station Identifier |
| STAT_ALT | Alternate Site Sampled (A, B, or C) |
| EVNTDATE | Event Date |
| SAMPLEID | Sample ID Number Related to Sample Type |
| SECCHI_D | Secchi Depth (me) |
| SECC_BOT | Secchi Disk on Bottom? |
| CASTTIME | Time CTD Cast was Performed |
| CTDFILE | CTD file name at downloading |
| CTD_ID | ID Number of CTD Used for Cast |
| CTDDEPTH | Water Depth Read with CTD |
| PARFILE | PAR file name at downloading |
| SUNITTMP | Surface Temperature from CTD (deg. C) |
| SUNITSAL | Surface Salinity from CTD (ppt) |
| SUNIT_DO | Surface Dissolved Oxygen from CTD (mg/L) |
| SAMBITMP | Surface Temp. from Thermometer (deg. C) |
| SAMBISAL | Surface Sal. from Refractometer (ppt) |
| SAMBI_DO | Surface Dissolved Oxygen from YSI (mg/L) |
| SDIFF_OX | Surface DO Difference, CTD vs YSI (mg/L) |
| BUNITTMP | Bottom Temperature from CTD (deg. C) |
| BUNITSAL | Bottom Salinity from CTD (ppt) |
| BUNIT_DO | Bottom Dissolved Oxygen from CTD (mg/L) |
| BUNIT_PH | Bottom pH (pH units) |
| CTDCOMM | CTD Cast Coments |

NUTSAMPS

| NAME | LABEL |
|----------|--------------------------------------|
| STATION | Station Identifier |
| STAT_ALT | Alternate Site Sampled (A, B, or C) |
| EVNTDATE | Event Date |
| LAYER | Water Layer of Nutrients Sample |
| REP | Nutrient Sample Field Replicate # |
| NUT_SAL | Water Salinity for Nutrient Sample |
| VOL_FLT | Volume Filtered for Nutrient Samples |

| | |
|----------|--------------------------------|
| FILTMETH | Filtration Method (V/P) |
| CHL_ID | Chlorophyll Sample Id. |
| NUT_ID | Dissolved Nutrients Sample Id. |
| TSS_ID | TSS Sample Id. |
| TN_ID | Total Nutrients Sample Id. |
| NUT_COMM | Nutrients Comments |

SEDGRABS

| NAME | LABEL |
|----------|--|
| STATION | Station Identifier |
| STAT_ALT | Alternate Site Sampled (A, B, or C) |
| EVNTDATE | Date of Sampling Event |
| HOMGRABS | Grabs in Homogenized Sediment Sample (#) |
| HOMGFAIL | Unsuccessful Grabs (#) |
| ALLSAMP | All Samples Collected? |
| S_REASON | Reason Samples not Collected |
| SEDCOMM | Comment on Grab Attempts |

BENGRABS (BENINF)

| NAME | LABEL |
|----------|--|
| SAMPLEID | Benthic Infauna Sample ID Number |
| STATION | Station Identifier |
| STAT_ALT | Alternate Site Sampled (A, B, or C) |
| EVNTDATE | Event Date |
| BENGRAB | Grab Associated with Infauna Sample (#) |
| GRABSIZE | Size of Benthic Grab Sampler |
| BENDEPTH | Penetration Depth of Grab in Sed. (mm) |
| BEN_SAV | Submerged Aquatic Veg. in Benthic Sedime |
| BEN_ALG | Algae Present in Benthic Sediment |
| BEN_JARS | Number of Jars Used to Hold Sample (#) |
| BENCOLOR | Benthic Sediment Color |
| BENTYPE | Benthic Sediment Type |
| BENOOZY | Benthic Sediment Notes--Oozy |
| BENHARD | Benthic Sediment Notes--Hard |
| BENSOFT | Benthic Sediment Notes--Soft |
| BENSHELL | Benthic Sediment Notes--Shell |
| BENROCKS | Benthic Sediment Notes--Rocks |
| BENNOOTH | Benthic Sediment Notes--Other |
| BENSMELL | Benthic Sediment Smell |
| BENWORMS | Worms found in Benthic Sediment |
| BENTUBES | Worm Tubes found in Benthic Sediment |
| BENCRUST | Crustaceans found in Benthic Sediment |
| BENECHIN | Echinoderms found in Benthic Sediment |
| BENVEG | Vegetation found in Benthic Sediment |
| BENMOLL | Molluscs found in Benthic Sediment |
| BENAMP | A. abdita found in Benthic Sediment |
| BENBIOTH | Other Infauna found in Benthic Sediment |
| ALLBSMPS | All Benthic Samples taken |
| B_REASON | Reason Benthic Samples NOT taken |
| B_COMMNT | Benthic Grab Comment |

TISSUE (FISHLEN)

| NAME | LABEL |
|----------|-------------------------------------|
| STATION | Station Identifier |
| EVNTDATE | Date of Sampling Event |
| STAT_ALT | Alternate Site Sampled (A, B, or C) |
| FTRAWLID | Trawl Identifier |

| | |
|----------|-------------------------------------|
| FCOMNAME | Fish Taxa Common Name |
| F_COUNT | Number of this Fish Taxa caught |
| COMP_ID | Fish Chemistry Composite Identifier |
| FSEQNUM | Fish Sequence Number |
| FLENGTH | Length (mm) |
| LUMPS | Fish Pathology: Lumps |
| LUMP_LOC | Locations of Lumps |
| GROWTHS | Fish Pathology: Growths |
| GRWTHLOC | Locations of Growths |
| ULCERS | Fish Pathology: Ulcers |
| ULCERLOC | Locations of Ulcers |
| FINROT | Fish Pathology: Fin Erosion |
| FROT_LOC | Locations of Fin Erosion |
| GILL_ER | Fish Pathology: Gill Erosion |
| GE_LOC | Locations of Gill Erosion |
| GILL_DC | Fish Pathology: Gill Discoloration |
| GD_LOC | Locations of Gill Discoloration |
| SAMPLEID | Fish Sample Identifier |

FTRAWL

| NAME | LABEL |
|----------|--|
| STATION | Station Identifier |
| STAT_ALT | Station Location (A) |
| EVNTDATE | Event Date |
| FTRAWLID | Fish Trawl ID Number |
| FTRLFLAG | Status of Completed Fish Trawl |
| NT_REASN | Reason Trawl not Completed |
| FTB_TIME | Begin Time of Fish Trawl |
| FT_DUR | Duration of Fish Trawl (mmss) |
| FTMAXDEP | Maximum Water Depth during Trawl |
| FTMINDEP | Minimum Water Depth during Trawl |
| FT_LINE | Fish Trawl Line out |
| FSPECCNT | Total Fish Species in Trawl (#) |
| FWTR_SPD | Trawl Speed through Water (knots) |
| FBOT_SPD | Trawl Speed over Bottom (knots) |
| FTB_LATD | Trawl Beginning Latitude-Degrees |
| FTB_LATM | Trawl Beginning Latitude-Minutes |
| FTB_LNGD | Trawl Beginning Longitude-Degrees |
| FTB_LNGM | Trawl Beginning Longitude-Seconds |
| FTE_LATD | Trawl End Latitude-Degrees |
| FTE_LATM | Trawl End Latitude-Minutes |
| FTE_LNGD | Trawl End Longitude-Degrees |
| FTE_LNGM | Trawl End Longitude-Seconds |
| ftrash | Any trash in Trawl |
| FPLASTIC | Trash in Trawl-Plastic |
| FMEDWAST | Trash in Trawl-Medical Waste |
| FCANS | Trash in Trawl-Aluminum Cans |
| FTIRES | Trash in Trawl-Tires |
| FGLASS | Trash in Trawl-Glass |
| FPAPER | Trash in Trawl-Paper |
| FNTLWOOD | Trash in Trawl-Natural Wood |
| FMMDWOOD | Trash in Trawl-Manmade wood |
| FFSHGEAR | Trash in Trawl-Comm. Fish Gear |
| FROCKS | Trash in Trawls-Rocks |
| FVEGETAT | Trash in Trawl-Vegetation |
| FTRSHOTH | Trash in Trawl-Other Type |
| finverts | Any invertebrates in Trawl |
| FTBLUCRB | Invertebrates in Trawl-Blue Crabs |
| FTHRSCRB | Invertebrates in Trawl-Horseshoe Crabs |
| FTSPDCRB | Invertebrates in Trawl-Spider Crabs |
| FTOTHCRB | Invertebrates in Trawl-Other Crabs |
| FTECHIN | Invertebrates in Trawl-Echinoderm |

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| FTBIVALV | Invertebrates in Trawl-Bivalves |
| FTGASTRO | Invertebrates in Trawl-Gastropods |
| FTSQUID | Invertebrates in Trawl-Squid |
| FTSHRIMP | Invertebrates in Trawl-Shrimp |
| FTMANSHR | Invertebrates in Trawl-Mantis Shrimp |
| FTLOBST | Invertebrates in Trawl-Lobsters |
| FTINVOTH | Invertebrates in Trawl-Other Kind |
| FT_CMMNT | Fish Trawl- Comment |