Preliminary New Hampshire Coastal 2004 Database

The purpose of this document is to provide an overview of the preliminary Coastal 2004 New Hampshire database. These data are available to Coastal 2004 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:

Date/Location Data:	STATIONS	Sampling Station Location Data
	EVENTLOG	Station Visit Data
	BOATLOC	Detailed Sampling Location data
	SAMPLOG	All Samples collected at station
Water Quality Data:	WATRPHYS	Water Quality Physical Measurements Data
	CTDRET	Water Quality QA data
	NUTSAMPS	Water Quality Nutrients Sample Information
Sediment Quality Data:	SEDGRABS	Sediment Sample Information
	BENGRABS	Benthic Sample Information
Fish Size Data:	TISSSUE	Tissue/Anatomical Measurements (fish, etc.)
Lobster Size Data:	LOBSTER	Tissue/Anatomical Measurements (lobster)
	FTRAWL	Fish Trawl Descriptive Data
Additional NH data	NUTRIENTS	Lab results for nutrients samples
	ATTENCO	NH calculated Attenuation Coeffiecients

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
FSHPQA	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

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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
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SAMPLOG

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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
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WATRPHYS

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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)
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CTDRET

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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
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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
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NUTSAMPS

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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
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SEDGRABS

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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 (#)
ALLSAMPS       All Samples Collected?
S_REASON       Reason Samples not Collected
SEDCOMM        Comment on Grab Attempts
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BENGRABS (BENINF)

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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
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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
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TISSUE (FISHLEN)

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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      Loccations 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
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LOBSTER

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NAME          LABEL

STATION       Station Identifier
EVNTDATE      Date of Sampling Event
STAT_ALT      Alternate Site Sampled (A, B, or C)
FCOMNAME      Fish Taxa Common Name
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F_COUNT        Number of this Fish Taxa caught
COMP_ID        Fish Chemistry Composite Identifier
FSEQNUM        Fish Sequence Number
FLENGTH        Length (mm)
SAMPLEID       Fish Sample Identifier
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FTRAWL

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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 inverterbrates 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
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
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FT_CMMNT   Fish Trawl- Comment

Processed data: these data are in the format provided by New Hampshire DES

NUTRIENTS   Lab results for nutrients samples
ATTENCO   NH calculated Attenuation Coefficients