

Data File Format for public (FTP site) 20-mm.mdb file

This document describes the format (tables and field names) of the newly designed 20-mm database (starting in 2017). These data are housed and backed up on the tier 3 server. Backups, updates, and changes can be done through Tuongvan Nguyen in the CDFW Data and Technology Division. Document created by L. Damon on 11/27/2017.

Structure of the 20mm database

Lookup Tables:

20mm Stations

Variable	Column	Description
Station	1	Project station number (e.g. 323)
LatD	2	Latitude Degrees (North)
LatM	3	Latitude Minutes
LatS	4	Latitude Seconds
LonD	5	Longitude Degrees (West)
LonM	6	Longitude Minutes
LonS	7	Longitude Seconds
RKI	8	River Kilometer Index
Location	9	Description of sampling station
AreaCode	10	Region of estuary where station is located
Notes	11	Comments pertaining to sampling station

FishCodes

Variable	Column	Description
Common Name	1	Common name of the fish taxon sampled
Genus	2	Genus name of fish
Species	3	Species name of fish
Family	4	Family name of fish
Fish Code	5	Numeric code assigned to each fish taxon
Symbol	6	Letter symbol (2 or 3 letters) for each fish taxon
TNS Field	7	Field name used in Townet Survey data sets
MWT Species Code	8	Numeric code used in Mid-water Trawl data sets
MWT Field	9	Field name used in Mid-water Trawl data sets

Zoo Codes

Variable	Column	Description
Zoo Code	1	Numeric code for each invertebrate species
Common Name	2	Common name of the invert taxon sampled
Phylum	3	Phylum of the invertebrate
Class	4	Class of the invertebrate
Order	5	Order of the invertebrate
Family	6	Family of the invertebrate
Genus	7	Genus of the invertebrate
Species	8	Species of the invertebrate
Zoo Order	9	Order categories appear on zooplankton data sheet
Diet Order	10	Order categories appear on diet data sheet
POD Diet Order	11	Pelagic Organism Decline diet codes

GearCodesLkp

Variable	Column	Description
GearCode	1	Numeric code for each gear type
Gear	2	Text indicating the gear used (i.e., net or CB)

GearDescription	3	Text describing the gear
Order	4	Number for order of gears on report
Active	5	Yes = gear is currently active, No = Gear is inactive

MeterCorrections

<u>Variable</u>	<u>Column</u>	<u>Description</u>
StudyYear	1	Year the flowmeter was used
MeterSerial	2	Serial number on the flowmeter
CalibrationDate	3	Date the flowmeter was calibrated at UCDavis
kFactor	4	Calculated; specific to each meterserial and studyyear
Notes	5	Comments field

SampleCode

<u>Variable</u>	<u>Column</u>	<u>Description</u>
SampleCodeID	1	Numeric code
SampleCode	2	Text description for each numeric code (Valid =normal sample, Invalid = sample is erroneous)

Data Tables:

Survey

<u>Variable</u>	<u>Column</u>	<u>Description</u>
SurveyID	1	Autonumber (Unique ID) given to each survey record
SampleDate	2	Date the sample was taken
Survey	3	Number assigned to each week-long sampling effort
Comments	4	Comments associated with each date and survey

Station

<u>Variable</u>	<u>Column</u>	<u>Description</u>
StationID	1	AutoNumber (unique ID) for each station record
SurveyID	2	UniqueID associated from Survey table
Station	3	Three digit numeric code for sample location
LatDeg	4	Latitude Degrees (WGS 1984)
LatMin	5	Latitude Minutes (WGS 1984)
LatSec	6	Latitude Seconds (WGS 1984)
LonDeg	7	Longitude Degrees (WGS 1984)
LonMin	8	Longitude Minutes (WGS 1984)
LonSec	9	Longitude Seconds (WGS 1984)
Temp	10	Top water temperature collected at each station (°C)
TopEC	11	Top water specific conductance (µm/CM)
BottomEC	12	Bottom water specific conductance (µm/CM)
Secchi	13	Water clarity (cm)
Turbidity	14	Particles in top water sample (NTU)
Comments	15	Comments associated with each date/survey/station

Tow

<u>Variable</u>	<u>Column</u>	<u>Description</u>
TowID	1	AutoNumber (unique ID) for each tow record
StationID	2	UniqueID associated from Station table
TowNum	3	Number associated with each tow at a station
TowTime	4	Time the tow was conducted
Tide	5	Tide during Tow (1=Low Slack, 2=Ebb, 3=High Slack, 4=Flood)
BottomDepth	6	Water Depth at start of tow
CableOut	7	Amount of cable released based on depth (see Tow Schedule)
Duration	8	Amount of time the tow was conducted

Gear

<u>Variable</u>	<u>Column</u>	<u>Description</u>
GearID	1	AutoNumber (unique ID) for each Gear record
TowID	2	UniqueID associated from Tow table
GearCode	3	Numerical code to distinguish gear type (GearCodeLkp)
MeterSerial	4	Serial number of each General Oceanics flowmeter
MeterStart	5	Number on flowmeter counter at start of tow
MeterEnd	6	Number on flowmeter counter at end of tow
MeterCheck	7	Difference between start and end flowmeter counts

LabSample

<u>Variable</u>	<u>Column</u>	<u>Description</u>
LabSampleID	1	AutoNumber (unique ID) for each LabSample record
GearID	2	UniqueID associated from Gear table
SampleCode	3	1 = valid, 2 = invalid
LabSampleType	4	Type of sample collected (i.e., fish, zoo, jelly)
Comments	5	Comment field

FishSample

<u>Variable</u>	<u>Column</u>	<u>Description</u>
FishSampleID	1	AutoNumber (unique ID) for each FishSample record
LabSampleID	2	UniqueID associated from LabSample table
FishCode	3	Numerical code associated with each species
Catch	4	Number of organisms caught

FishLength

<u>Variable</u>	<u>Column</u>	<u>Description</u>
FishLengthID	1	AutoNumber (unique ID) for each FishLength record
FishSampleID	2	UniqueID associated from FishLength table
Length	3	Length (mm) of each organism caught
AdFinPresent	4	Yes/No field for adipose fin presence in salmonids
ReleasedAlive	5	Yes/No field if salmonid was released alive or killed
FieldRace	6	Race of Chinook based on Delta Model key
FinalRace	7	Race of Chinook based on coded-wire tag data

ZooSample

<u>Variable</u>	<u>Column</u>	<u>Description</u>
LabSampleID	1	AutoNumber (unique ID) for each LabSample record
Dilution	2	Volume of the sample after diluted with water
CellsProcessed	3	Number of slides processed per sample

ZooCount

<u>Variable</u>	<u>Column</u>	<u>Description</u>
ZooCountId	1	AutoNumber (unique ID) for each ZooCount record
LabSampleID	2	UniqueID associated from ZooSample table
CellNumber	3	Microscope slide number
ZooCode	4	Numerical code associated with each species
ZooCount	5	Number of organisms counted