

readme.txt

XYZ data (soundings & gridded) from 2011 Elkhorn Slough combined bathymetric/topographic survey  
Conducted by CSUMB Seafloor Mapping Lab

Survey Date	Vessel	Location	Topo	Bathy
110918	KelpFly	Main Channel		x
110919	KelpFly	Main Channel		x
110920	KelpFly	Main Channel		x
110921	KelpFly	East of RR		x
110922	KelpFly	East of RR		x
110927	KelpFly	Main Channel		x
110927	KelpFly	Main Channel	X	X
110928	KelpFly	East of RR	x	x
110928	KelpFly	East of RR	x	x
110929	ATV	East of RR	x	
111026	Ventresca	Main Channel	x	
111223	KelpFly	Main Channel		x
111223	Ventresca	Main Channel	x	

Coordinates: NAD83(CORS96 epoch 2002) UTM north zone 10, NAVD88(Geoid09)

Survey Reference station for vertical & horizontal control: P210 PID= DI7526  
Website: <http://www.ngs.noaa.gov/cgi-bin/cors/corsage.prl?site=P210>  
published NAD83 coordinates HAE

NAD_83 (CORS96) POSITION (EPOCH 2002.0)			
Transformed from ITRF00 (epoch 1997.0) position in Jun. 2007.			
X =	-2688757.935 m	latitude =	36 48 58.07387 N
Y =	-4348066.144 m	longitude =	121 43 54.57086 W
Z =	3801079.513 m	ellipsoid height =	3.596 m

Elkhorn Slough main channel, South Marsh & Parsons Slough east of the rail road tracks  
Bathy data was cleaned by Mary Young and combined in PFM with uncleaned Laser Topo data for cleaning  
by Corina Marks

main channel north of kirby park = ES2011\_N\_Kirby\_KF\_Laser4Cleaning.pfm  
main channel Moss Landing - Parsons slough mouth =  
ES\_111026-111223\_Laser4Cleaning\_corina.pfm  
East of rail road North end = ES2011\_ERR\_bathytopo4CleaningCorina.pfm

and Steve Quan  
main channel Parsons Slough mouth - Kirby Park =  
ES\_111026-111223\_Laser4Cleaning\_Steve.pfm  
east of rail road South end = ES2011\_ERR\_bathytopo4CleaningSteven.pfm.

Soundings folder: contains combined bathy/topo xyz point data files exported from PFM files cleaned in IVS Fledermaus  
Data east of rail road tracks (subdivided into north and south sections)  
ERRN\_bathytopo\_soundings\_2011.xyz  
combined sonar bathymetry and laser topography data east  
and north of rail road tracks for south marsh exported from  
ES2011\_ERR\_bathytopo4CleaningCorina.pfm  
ERRS\_bathytopo\_soundings\_2011.xyz  
combined sonar bathymetry and laser topography data east  
and north of rail road tracks for parsons slough exported from  
ES2011\_ERR\_bathytopo4CleaningSteven.pfm  
Data from Elkhorn Slough Main Channel (subdivided into three sections along length of channel)

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 ES\_ML-PS\_bathytopo\_2011xyz.csv  
 combined sonar bathymetry and laser topography data from  
 Moss Landing Harbor (bathy only) to mouth of Parsons Slough exported from  
 ES\_111026-111223\_Laser4cleaning\_corina.pfm  
 ES\_PS-KP\_bathytopo\_2011xyz.csv  
 combined sonar bathymetry and laser topography data from  
 mouth of Parsons Slough to Kirby Park exported from  
 ES\_111026-111223\_Laser4cleaning\_Steve.pfm  
 ES\_KP-HL\_bathytopo\_2011xyz.csv  
 combined sonar bathymetry and laser topography data from  
 Kirby Park to Hudsons Landing exported from ES2011\_N\_Kirby\_KF\_Laser4Cleaning.pfm  
 cleaned by Corina Marks

Gridded folder: contains gridded point data derived from bathy/topo sounding data  
 files listed above gridded in IVS DMagic at 0.5 and 1.0 meter spacings with no  
 interpolation (i.e. weight diameter = 1).

Gridded Data for entire project areas (Main channel & east of rail road  
 tracks)

ES2011\_allBathyTopo\_1x1m.xyz  
 Gridded Data east of rail road tracks only  
 ERRall\_bathytopo\_1m.xyz  
 ERRall\_bathytopo\_50cmx1.xyz

Gridded Data for Elkhorn Slough Main Channel only  
 ES\_ML-PS\_bathytopo\_50cmx1.xyz (Moss Landing Harbor to Parsons  
 Slough mouth)  
 ES\_PS-HL\_bathytopo\_50cmx1.xyz (Parsons Slough mouth to Hudsons  
 Landing)