

Space Details

Key:	CDATA
Name:	CANON Data
Description:	
Creator (Creation Date):	kgomes (Jun 07, 2011)
Last Modifier (Mod. Date):	kgomes (Jun 07, 2011)

Available Pages

- Home 
 - AUV Dorado Biological Data
 - ODSS Data Analysis
 - CANON Data Archive Descriptions
 - CANON 2010 Oct MB Data Archive Description
 - CANON 2010 Sep MB Data Archive Description
 - CANON 2011 Apr MB Data Archive Description
 - CANON 2011 Jun MB Data Archive Description
 - CANON 2011 Oct MB Data Archive Description
 - CANON 2011 Sep MB Data Archive Description
 - CANON 2012 May MB Data Archive Description
 - CANON 2012 Sept MB Data Archive Description
 - CANON ECOHAB 2013 March SoCal Data Archive Description
 - Canon Spring 2013
 - Data Analysis and Classification Group
 - Guidelines for Data Providers
 - ODSS Data Flows
 - ODSS Planning
 - Autonomous Vehicles Working Group
 - Data Products Working Group
 - Samples Working Group
 - ODSS Water Management
- .bookmarks

Home

This page last changed on Apr 18, 2013 by [tm](#).

This is the home page for the CANON Data space.

1. [ODSS Water Management](#)
 - a. [AUV Dorado Biological Data](#)
2. [ODSS Data Analysis](#)
3. [ODSS Planning](#)

AUV Dorado Biological Data

This page last changed on Jun 23, 2011 by [jharvey](#).

Comments

BIOSPACE October 2010 - The most recent biological data set derived from AUV Dorado water samples is now available (see Attachments).

Posted by [jharvey](#) at Jun 23, 2011.

.....

The most recent data sets containing AUV Dorado water sample environmental and biological data (2009-2011) have been posted here (see Attachments tab):

<https://oceana.mbari.org/confluence/pages/viewpageattachments.action?pageId=17858708>

Please treat unpublished data accordingly.

Posted by [jharvey](#) at Apr 24, 2012.

.....

The most recent AUV Dorado and R/V Fulmar water sample and corresponding biological data (2012) have been posted here (see Attachments tab):

<https://oceana.mbari.org/confluence/pages/viewpageattachments.action?pageId=17858708>

The file "2012_Dorado_Fulmar_Synopsis.pdf" contains a brief, graphical summary of results for both platforms.

Please treat unpublished data accordingly.

Posted by [jharvey](#) at Dec 11, 2012.

.....

ODSS Data Analysis

This page last changed on Apr 07, 2015 by [monique](#).

link to this page: <https://oceana.mbari.org/confluence/display/CDATA/ODSS+Data+Analysis>

[CANON Data Archive Descriptions](#), a guide to where the CANON data is located

[ODSS Water Management](#)

[Data Analysis and Classification Group \(DAC\)](#)

[Data Analysis Requirements](#), requirements for the data analysis perspective in the ODSS tool.

[ODSS Observation Log Mobile Apps](#), instructions for installing and how to use.

[Guidelines for Data Providers](#), guidelines for where to put your data, how to format for ease of ingest into ODSS data system.

[Adding your data as a map overlay in ODSS](#)

[CANON September 2013 Data Inventory](#)

Links to data plots in ODSS

gliders box (G34, G29)	sections
glider line 67 (L66)	sections
webb gliders (nemesis, UCSC294)	sections
wavegliders (OA, Tex)	maps
drifters (Stella)	maps
underway data (Martin)	maps
CTD casts (Carson)	profiles
ROMS lagrangian experiments	movies

Links to data outside ODSS

Data visualization

ESP web	timeseries
Realtime CenCOOS glider visualization	wave glider , spray L67 glider
SST, Chl & currents 8-day composites	CenCOOS
HF radar surface currents	UCSD

Models visualization

Particles trajectories from HF radar	cencal currents
interactive visualization of Yi Chao's ROMS 3km model	SCCOOS
fixed images of Yi Chao's ROMS 3km model	CenCOOS
ROMS "drop a drifter" tool	CenCOOS

UCSC ROMS model w/ assimilation	UCSC
---------------------------------	----------------------

Forecasts

NWS weather forecast	NWS
COAMPS Wind forecasts (CenCOOS)	CenCOOS MRY
COAMPS Wind forecasts (NRL)	NRL MRY

Mooring Data Plots

MBARI Mooring page	MBARI
CenCOOS Mooring page + map	CenCOOS

(click on link)

Surface data: [Sea Surface Temp](#) (M1, M2, OA1, OA2), [Sea Surface Salinity](#) (M1, M2, OA1, OA2)

Water column TS data: [Wind and Temp](#) (M1), [Wind and Salinity](#) (M1)

Atmospheric variables: [Winds](#) (M1, M2, OA1, OA2), [Radiance](#) (M1), [Air Temp](#) (M1, M2, OA1, OA2), [Air Pressure](#) (M1, M2, OA1, OA2)

Other oceanic variables: [Currents](#) (M1, M2), [Fluorescence](#) (M1, M2, OA1, OA2), [Oxygen](#) (M2, OA1, OA2), [Delta PCO2](#) (M1, M2, OA1, OA2), [pH](#) (M2, OA1, OA2)

Surface data	M1	M2 (46044)	OA1	OA2
Sea Surface Temperature (back to list)	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.
Sea Surface Salinity (back to list)	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.

Water column	long term	recent
Winds and Temperature (M1) (back to list)	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.
Winds and Salinity (M1) (back to list)	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.

Winds	M1	M2 (46044)	OA1	OA2
Wind vectors (back to list)	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.		
Wind speed (back to list)	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.

Wind direction (back to list)	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.
---	---	---	---	---

Currents	M1	M2 (46044)
Latest profile (back to list)	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.
Timeseries	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.

M1 zonal current	Cannot resolve external resource into attachment.
M1 merid current	Cannot resolve external resource into attachment.

Bio & chemistry Fluorescence	M1	M2 (46044)	OA1	OA2
(back to list)	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.		
Oxygen (back to list)	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.
Delta PCO2 (back to list)	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.
pH (back to list)		Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.

Atmospheric variables	M1	M2 (46044)	OA1	OA2
Air Temp (back to list)	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.
Air Pressure (back to list)	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.	Cannot resolve external resource into attachment.

Radiance (M1) (back to list)	Cannot resolve external resource into attachment.
--	---

Not useful?

Cannot resolve external resource into attachment.
Cannot resolve external resource into attachment.
Cannot resolve external resource into attachment.

Cannot resolve external resource into attachment. Cannot resolve external resource into attachment.
Cannot resolve external resource into attachment.
Cannot resolve external resource into attachment. Cannot resolve external resource into attachment.

CANON Data Archive Descriptions

This page last changed on Mar 13, 2013 by [tm](#).

Link to this page: <https://oceana.mbari.org/confluence/display/CDATA/CANON+Data+Archive+Descriptions>

[Back](#)

CANON Data Archive List by Field Campaign (testing RSS feed, anonymous, to Google Reader)

[STOQS data load script for all campaigns](#)

Link	CANON Experiment 'Field Campaign' Description
2010 September	Western Flyer, Zephyr, ESP Drifter outside of Monterey Bay
2010 October	BloomEx, BioSpace, and LatMix in Monterey Bay
2011 April	Bloom dynamics along frontal regions in Northern part of Monterey Bay
2011 June	Bloom dynamics along frontal regions in Northern part of Monterey Bay
2011 September	Bloom dynamics along frontal regions in Northern part of Monterey Bay
2011 October	Western Flyer, ESP Drifter
2012 May	Zephyr, Dorado+Gulpers, LRAUV Tethys and Daphne, Fulmar, Gliders (Genetics tools used from bacteria to zooplankton)
2012 Sept	Wave Glider, Western Flyer, ESP Drifter, Dorado, LRAUV Tethys and Daphne, Gliders. Nitrogen biogeochemical dynamics along upwelling gradients in the California Current System. Studies in the Coastal Transition Zone.
2013 March	ECOHAB in Southern California, RV Rachel Carson, RV Yellowfin, LRAUV Tethys and Daphne, Gliders from USC, ESP Mack and Bruce, deployed for investigation and sampling of deep chlorophyll maximum, possible upwelling driven HAB, Demoic Acid study

CANON 2010 Oct MB Data Archive Description

This page last changed on Apr 22, 2012 by [mccann](#).

Link to this page: <https://oceana.mbari.org/confluence/display/CDATA/CANON+2010+Oct+MB+Data+Archive+Description>

Back to [CANON Data Archive Descriptions](#)

BloomEx / BioSpace / Latmix 4 Oct 2010 to 28 Oct 2010 (YD 277 to 301)

Experiment Description: TBD

Data Locations

ODSS THREDDS server

- *work in progress*
- Dorado sensors during this campaign
- Martin underway sensors during this campaign
- <http://odss.mbari.org/thredds/biospace2010.html>

Water Sample Data

- Julio Harvey's [Water Sample Management Spreadsheet](#)

Mooring Data

- <http://dods.mbari.org/data/ssdsdata/deployments/previous.html>
 - MO: [201006](#) 2010-06-14 to 2010-11-09
 - M1: [200910](#) 2009-10-20 to 2010-10-27
 - M2: [201004](#) 2010-04-03 to 2011-09-29
- SSDS: <http://new-ssds.mbari.org/ssds/faces/explorer.jsp> (Select "Mooring" from the drop down and explore the tree)
- THREDDS (one stop shop): <http://elvis.shore.mbari.org/thredds/OSMooringCatalog.html>

Dorado AUV Data

- [AUV 2010 Deployments \(raw vehicle files\)](#) (YD 277 to 301)
- [AUV 2010 Deployments \(netcdf files\)](#)
- [AUV 2010 Science Data Products](#)

LRAUV (Tethys)

- Real time data and data products: <http://aosn.mbari.org/sbdlogs/>
- Full resolution post deployment data and products: \\Tornado\ProjectLibrary\900739.LRAUV.Data\Testing
- STOQs

Drifters

- [Instructions regarding database of all CANON Vehicle tracking positions](#)
- Drifter positions (in plain text) stored on tornado in Tracking/drifters
- Chris Wahl's [Martin Event Spreadsheet](#)

ESP

- [2010 ESP Deployment FTP Site](#)

- [ESP GUI \(JNLP\)](#)
- [ESP GUI User Manual](#)

BOG

- RV_Martin underway system data, RV_Zephyr underway system data was loaded into BOG from the canon ftp site
- Instructions for BOG database access
 - http://mwww.mbari.org/bog/documents/new_users.htm
 - Data Access http://mwww.mbari.org/bog/documents/new_users.htm#_Toc424970287

CoSci

CENCOOS

FTP - canon@beach.mbari.org, request password from tm@mbari.org

directory	description	processed
calibration	fluorometer intercalibration data	
latmix	lateral mixing, physical oceanography oriented rhodamine dye transport	
mlml	moss landing marine labs	
raw	boo boo directory	
rv_pointsur		
ucsc		
cal_poly		
lr_wg		
nps		
rutgers		
rv_zephyr		
usc		
dss_map_products		
mbari		
nrl_dc		
satellite		
jpl_roms		
mission_plans		
nrl_ssc		
rv_johnmartin		

STOQS Data Load for October 2010: http://code.google.com/p/stoqs/source/browse/loaders/CANON/loadCANON_all.py

CANON 2010 Sep MB Data Archive Description

This page last changed on Jan 27, 2016 by duane.

Link to this page: <https://oceana.mbari.org/confluence/display/CDATA/CANON+2010+Sep+MB+Data+Archive+Description>

Back to [CANON Data Archive Descriptions](#)

CANON 2010 Sep 9-20 Experiment Description:

- Platforms: Western Flyer, Zephyr, Dorado CTD AUV, ESP Drifter
- PIs: Chavez, Worden, Scholin, Rajan
- Date: 2010 Sep 9-20
- The goals of the cruise are several fold:
 1. Make a CTD section along CalCOFI Line 67 out to 350 nm (station 67-135) to characterize the environment from the eutrophic inshore to the oligotrophic offshore waters.
 2. Carry out a day-long time series in the offshore waters.
 3. Return to the mesotrophic waters around station 67-70 and rendezvous with the Zephyr (ship) and Dorado (AUV) and carry out a 5 day ESP drift experiment to characterize the diel cycles in gene expression, growth, production and grazing. The Dorado will map hourly around the ESP from 0600 local to midnight daily.
- The approximate timing of the cruise is for the Flyer to depart Moss Landing on September 9 and reach 67-135 by September 12. After the 24 hour station the Flyer will return to 67-70 and reach this site to begin operations by 0400 on September 14. The deployment of the ESP, Dorado and a CTD cast will be carried out by 0600. If everything goes as planned the ESP will drift for 5 days until September 19. The Dorado will survey a volume of water equivalent to 1 square kilometer hourly to 100 m. Every morning at ~0400 local there will be a deep (500m) CTD and large water collection exercise for diurnal incubations. Every four hours (0800, 1200, 1600, 2000, 2400) the Flyer will make a shallow (100 m) CTD next to the ESP and collect water at a few depths.

Data Locations

ODSS THREDDS server

- http://odss.mbari.org/thredds/2010_Sep/

Mooring Data

- <http://dods.mbari.org/data/ssdsdata/deployments/previous.html>
 - MO: [201006](#) 2010-06-14 to 2010-11-09
 - M1: [200910](#) 2009-10-20 to 2010-10-27
 - M2: [201004](#) 2010-04-03 to 2011-09-29
- SSDS: <http://new-ssds.mbari.org/ssds/faces/explorer.jsp> (Select "Mooring" from the drop down and explore the tree)
- THREDDS (one stop shop): <http://elvis.shore.mbari.org/thredds/OSMooringCatalog.html>

Dorado AUV Data

- [AUV 2010 Deployments \(raw vehicle files\)](#) (YD 277 to 301)
- [AUV 2010 Deployments \(netcdf files\)](#)
- [AUV 2010 Science Data Products](#)

ESP

- [2010 ESP Drifter FTP Site](#)

FTP

directory	description	processed
-----------	-------------	-----------

CANON 2011 Apr MB Data Archive Description

This page last changed on Jan 27, 2016 by [duane](#).

Link to this page: <https://oceana.mbari.org/confluence/display/CDATA/CANON+2011+Apr+MB+Data+Archive+Description>

Back to [CANON Data Archive Descriptions](#)

Experiment Description: Patch tracking in the living ecosystem around frontal processes and associated algal blooms (or something like that)

[CANON 2011 April Experiment Overview]

Experiment Description: TBD

Data Locations

ODSS THREDDS Server

- http://odss.mbari.org/thredds/apr_2011/

Water Sample Data

- Julio Harvey's [Water Sample Management Spreadsheet](#)

Mooring Data

- <http://dods.mbari.org/data/ssdsdata/deployments/previous.html>
 - M1: [201010](#) 2010-10-27 to 2012-02-22
 - M2: [201004](#) 2010-04-03 to 2011-09-29
- SSDS: <http://new-ssds.mbari.org/ssds/faces/explorer.jsp> (Select "Mooring" from the drop down and explore the tree)
- THREDDS (one stop shop): <http://elvis.shore.mbari.org/thredds/OSMooringCatalog.html>

Dorado AUV Data

- [AUV 2011 Deployments \(raw vehicle files\)](#) (YD 110 to 118)
- [AUV 2011 Deployments \(netcdf files\)](#)
- [AUV 2011 Science Data Products](#)

LRAUV (Tethys)

- Real time data and data products: <http://aosn.mbari.org/sbdlogs/>
- Full resolution post deployment data and products: \\Tornado\ProjectLibrary\900739.LRAUV.Data\Testing
- STOQs

Drifters

- Drifter Positions

ESP

- [2010 ESP Deployment FTP Site](#)
- [ESP GUI \(JNLP\)](#)
- [ESP GUI User Manual](#)

BOG

- Martin data?
- http://mww.mbari.org/bog/documents/new_users.htm
- Data Access http://mww.mbari.org/bog/documents/new_users.htm#_Toc424970287

CoSci

CENCOOS

FTP

Comments

add drifter

Posted by [duane](#) at Mar 19, 2012.

CANON 2011 Jun MB Data Archive Description

This page last changed on May 08, 2012 by [duane](#).

Link to this page: <https://oceana.mbari.org/confluence/display/CDATA/CANON+2011+Jun+MB+Data+Archive+Description>

Back to [CANON Data Archive Descriptions](#)

CANON June 13 - 24 2011 Experiment

Experiment Description: Patch tracking in the living ecosystem around frontal processes and associated algal blooms (or something like that)

Research focus: pelagic ecosystem dynamics across frontal boundaries. A continuation of the April Front experiment.

September Day Plans

Dorado

Tethys

Martin

ESP

[CANON 2011 JuneExperiment Overview](#)

Experiment Description: TBD

Data Locations

Water Sample Data

- Julio Harvey's [Water Sample Management Spreadsheet](#)

Mooring Data

- <http://dods.mbari.org/data/ssdsdata/deployments/previous.html>
 - M1: [201010](#) 2010-10-27 to 2012-02-22
 - M2: [201004](#) 2010-04-03 to 2011-09-29
- SSDS: <http://new-ssds.mbari.org/ssds/faces/explorer.jsp> (Select "Mooring" from the drop down and explore the tree)
- THREDDS (one stop shop): <http://elvis.shore.mbari.org/thredds/OSMooringCatalog.html>

Dorado AUV Data

- [AUV 2011 Deployments \(raw vehicle files\)](#) (YD 155 to 172)
- [AUV 2011 Deployments \(netcdf files\)](#)
- [AUV 2011 Science Data Products](#)

LRAUV (Tethys)

- Real time data and data products: <http://aosn.mbari.org/sbdlogs/>
- Full resolution post deployment data and products: \\Tornado\ProjectLibrary\900739.LRAUV.Data\Testing
- STOQs

ESP

- No ESP deployed during June Experiment (see [CANON 2011 JuneExperiment Overview](#))

BOG

- Martin data ([plots](#))
-

CoSci

CENCOOS

FTP

Comments

Could be useful to add the satellite data that was available at the time?
I was actually looking for the LSC plots Sergey made. Not sure where they are...

Posted by [monique](#) at May 10, 2012.

CANON 2011 Oct MB Data Archive Description

This page last changed on Apr 12, 2012 by [duane](#).

Link to this page: <https://oceana.mbari.org/confluence/display/CDATA/CANON+2011+Oct+MB+Data+Archive+Description>

Back to [CANON Data Archive Descriptions](#)

A note to test RSS feed (Thom)

This is another RSS feed test (Thom)

Comments

- esp drifter
- LRAUV?
- Tom O'Reilly on Western Flyer wrote ODSS lite

Posted by [duane](#) at Mar 19, 2012.

CANON 2011 Sep MB Data Archive Description

This page last changed on May 08, 2012 by [duane](#).

Link to this page: <https://oceana.mbari.org/confluence/display/CDATA/CANON+2011+Sep+MB+Data+Archive+Description>;

Back to [CANON Data Archive Descriptions](#)

Description

John Ryan

The September CANON experiment finished September 22, 2011 with recovery of the moored and drifting WireWalkers, Stella drifters, and the Dorado AUV.

Some highlights:

Among the intersections of CANON science and engineering goals, environmental conditions directed this experiment toward intelligent sample acquisition while patch-tracking. Weak, directionally variable wind forcing and boundary current dynamics precluded development of a strong upwelling front along the outer boundary of the upwelling shadow. Tethys confirmed the absence of an upwelling front during the second week and revealed apparent biological enhancement along a different type of front at the outer boundary of the upwelling shadow. R/V Martin surveys provided surface and water column data both from the northern upwelling shadow where Tethys monitored, and adjacent to the drifting WireWalker that Dorado tracked. Lagrangian coherent structure (LCS) maps provided the opportunity to evaluate relationships between fronts identified from surface circulation (HF radar) and fronts identified from other remote and in situ sensing.

During tracking experiments, the drifting WireWalker provided unprecedented spatial and temporal resolution of variability in the water column, which was tracked autonomously using Lagrangian volume surveys and peak capture algorithms on the Dorado AUV. These algorithms were important to detecting HAB variability during BloomEx 2010, and they were valuable tools in this experiment. The ODSS readily accommodated information from new moored and Lagrangian WireWalker platforms and provided efficient and effective means of tracking these Lagrangian experiments for situational awareness and planning.

Water Sample Data

- Julio Harvey's [Water Sample Management Spreadsheet](#)

Wire Walker Data

- Is there anyone out there? If you get to this page looking for data, do the engineering team a favor and leave a comment. We are getting the sense that no one is using the CANON data archive description web pages. Please give us some feedback on how you do access data and what we can do to improve your work efficiency. Thanks in advance.

Mooring Data

- <http://dods.mbari.org/data/ssdsdata/deployments/previous.html>
 - M1: [201010](#) 2010-10-27 to 2012-02-22
 - M2: [201004](#) 2010-04-03 to 2011-09-29
- SSDS: <http://new-ssds.mbari.org/ssds/faces/explorer.jsp> (Select "Mooring" from the drop down and explore the tree)
- THREDDS (one stop shop): <http://elvis.shore.mbari.org/thredds/OSMooringCatalog.html>

Dorado AUV Data

- [AUV 2011 Deployments \(raw vehicle files\)](#) (YD 155 to 172)
- [AUV 2011 Deployments \(netcdf files\)](#)
- [AUV 2011 Science Data Products](#)

LRAUV (Tethys)

- Real time data and data products: <http://aosn.mbari.org/sbdlogs/>
- Full resolution post deployment data and products: \\Tornado\ProjectLibrary\900739.LRAUV.Data\Testing
- STOQs

ESP

- No ESP deployed during September 2011 Experiment
 - [2011 ESP Deployment FTP Site](#)
 - [ESP GUI \(JNLP\)](#)
 - [ESP GUI User Manual](#)

BOG

- Martin data ([plots](#))
-

CoSci

CENCOOS

FTP

Comments

I accessed this August 13, 2013.

Posted by [duane](#) at Aug 13, 2013.

CANON 2012 May MB Data Archive Description

This page last changed on Jun 25, 2012 by [duane](#).

Link to this page: <https://oceana.mbari.org/confluence/display/CDATA/CANON+2012+May+MB+Data+Archive+Description>

Back to [CANON Data Archive Descriptions](#)

CANON May 21 – June 6, 2012 Experiment

[Platform Timeline](#)

Research focus: measure and budget the sources and sinks of ammonium in one of the environments of the California Current System [June High Level Plan](#)

This is part one of a two part series, the with second part to be conducted in September 2012.

[Spring CANON12 - Studies in the shelf region](#)

The Spring focus was on the upwelling plume, the upwelling shadow in northern Monterey Bay and the front in between them. Figure 7Bio shows the mean sea surface temperature and fluorescence line height (a proxy for chlorophyll) for the May-June period with the proposed locations of AUV, glider and ship tracks. The list of assets and their dates is given below.

- Deploy Waveglider and Webb gliders on May 21 for reconnaissance phase ([see attached document](#) for repeat transects), recover on June 7 or 8
- Deploy Spray glider on May 25 for reconnaissance phase ([see attached document](#) for repeat transects), recover on June 7 or 8
- Deploy LRAUV Daphne May 29 (Tuesday) with Turbulence Sensor for transect along 36.9N. Recover LRAUV Daphne May 31 (Thursday). Deploy LRAUV Tethys May 31. June 6
- Deploy LRAUV Daphne June 4th (Monday). Recover both LRAUVs no later than June 8th.
- Deploy Dorado May, 29, 30, 31 (three evenings) with LIST and LIST Holo, make transect offshore along 36.9, collect water on the return transect in upwelling plume, front and shadow. Repeat June 5, 6.
- Deploy R/V Fulmar May 29, 30, 31, and maybe June 1 deploy drifters along 36.9 and collect water on the return transect in upwelling plume, front and shadow. Repeat June 5, 6, 7, and maybe 8. Drifters recovered daily unless clear that they will not exit region rapidly.

LRAUV (Tethys, Daphne)

- Real time data and data products: <http://aosn.mbari.org/sbdlogs/>
- Full resolution post deployment data and products: \\Tornado\ProjectLibrary\900739.LRAUV.Data\Testing
- STOQS: http://odss-staging.shore.mbari.org/canon/stoqs_may2012/query/

Mooring Data

- <http://dods.mbari.org/data/ssdsdata/deployments/previous.html>
 - M1: 201202 2012-02-22 to present
- SSDS: <http://new-ssds.mbari.org/ssds/faces/explorer.jsp> (Select "Mooring" from the drop down and explore the tree)
- THREDDS (one stop shop): <http://elvis.shore.mbari.org/thredds/OSMooringCatalog.html>

Dorado AUV Data

- [AUV 2012 Deployments \(raw vehicle files\)](#) (YD 142 to 158)
- [AUV 2012 Deployments \(netcdf files\)](#)
- [AUV 2012 Science Data Products](#)
- STOQS: http://odss-staging.shore.mbari.org/canon/stoqs_may2012/query/

AUV survey Dorado389_2012_150_00_150_00 beginning on 29-May-2012 has been processed using ctd2.

Below are the science data products now available for review:

Quick look plots:

- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_150_00_150_00_biolume.png (fixed contour limits)
- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_150_00_150_00_2column.png (free contour limits)
- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_150_00_150_00_lopc.png (LOPC count data)
- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_150_00_150_00_nav_adjust.png
- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_150_00_150_00_hist_stats.png
- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_150_00_150_00_prof_stats.png

Full resolution matlab data file:

- http://ssds.shore.mbari.org/auvctd/surveys/2012/mat/Dorado389_2012_150_00_150_00.mat

it's NetCDF counterpart (via OPeNDAP URL):

- http://dods.mbari.org/cgi-bin/nph-nc/data/auvctd/surveys/2012/netcdf/Dorado389_2012_150_00_150_00.nc.html

Decimated NetCDF file (sampled at the ISUS or 2 sec sampling frequency) with all variables interpolated to the same time axis:

- http://dods.mbari.org/cgi-bin/nph-nc/data/auvctd/surveys/2012/netcdf/Dorado389_2012_150_00_150_00_decim.nc.html

Decimated Ocean Data View import data file:

- http://ssds.shore.mbari.org/auvctd/surveys/2012/odv/Dorado389_2012_150_00_150_00.txt

Gulper bottle numbers and data at sample collection (ODV tab-delimited) file:

- http://ssds.shore.mbari.org/auvctd/surveys/2012/odv/Dorado389_2012_150_00_150_00_Gulper.txt

Google Earth sensor point tracks

- http://dods.mbari.org/data/auvctd/surveys/2012/kml/Dorado389_2012_150_00_150_00.kml

The above web links are a mapping from the \\tornado\auvctd\surveys\2012 directory. You may get the data from this network share or from the above URLs.

The processing log output:

- http://ssds.shore.mbari.org/auvctd/surveys/2012/logs/Dorado389_2012.150.00_150.00_diary.log

AUV survey Dorado389_2012_151_00_151_00 beginning on 30-May-2012 has been processed using ctd2.

Below are the science data products now available for review:

Quick look plots:

- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_151_00_151_00_biolume.png (fixed contour limits)
- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_151_00_151_00_2column.png (free contour limits)

- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_151_00_151_00_lopc.png (LOPC count data)
- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_151_00_151_00_nav_adjust.png
- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_151_00_151_00_hist_stats.png
- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_151_00_151_00_prof_stats.png

Full resolution matlab data file:

- http://ssds.shore.mbari.org/auvctd/surveys/2012/mat/Dorado389_2012_151_00_151_00.mat

it's NetCDF counterpart (via OPeNDAP URL):

- http://dods.mbari.org/cgi-bin/nph-nc/data/auvctd/surveys/2012/netcdf/Dorado389_2012_151_00_151_00.nc.html

Decimated NetCDF file (sampled at the ISUS or 2 sec sampling frequency) with all variables interpolated to the same time axis:

- http://dods.mbari.org/cgi-bin/nph-nc/data/auvctd/surveys/2012/netcdf/Dorado389_2012_151_00_151_00_decim.nc.html

Decimated Ocean Data View import data file:

- http://ssds.shore.mbari.org/auvctd/surveys/2012/odv/Dorado389_2012_151_00_151_00.txt

Gulper bottle numbers and data at sample collection (ODV tab-delimited) file:

- http://ssds.shore.mbari.org/auvctd/surveys/2012/odv/Dorado389_2012_151_00_151_00_Gulper.txt

Google Earth sensor point tracks

- http://dods.mbari.org/data/auvctd/surveys/2012/kml/Dorado389_2012_151_00_151_00.kml

The above web links are a mapping from the \\tornado\auvctd\surveys\2012 directory. You may get the data from this network share or from the above URLs.

The processing log output:

- http://ssds.shore.mbari.org/auvctd/surveys/2012/logs/Dorado389_2012.151.00_151.00_diary.log

AUV survey Dorado389_2012_152_00_152_00 beginning on 31-May-2012 has been processed using ctd2.

Below are the science data products now available for review:

Quick look plots:

- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_152_00_152_00_biolume.png (fixed contour limits)
- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_152_00_152_00_2column.png (free contour limits)
- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_152_00_152_00_lopc.png (LOPC count data)
- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_152_00_152_00_nav_adjust.png
- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_152_00_152_00_hist_stats.png
- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_152_00_152_00_prof_stats.png

Full resolution matlab data file:

- http://ssds.shore.mbari.org/auvctd/surveys/2012/mat/Dorado389_2012_152_00_152_00.mat

it's NetCDF counterpart (via OPeNDAP URL):

- http://dods.mbari.org/cgi-bin/nph-nc/data/auvctd/surveys/2012/netcdf/Dorado389_2012_152_00_152_00.nc.html

Decimated NetCDF file (sampled at the ISUS or 2 sec sampling frequency) with all variables interpolated to the same time axis:

- http://dods.mbari.org/cgi-bin/nph-nc/data/auvctd/surveys/2012/netcdf/Dorado389_2012_152_00_152_00_decim.nc.html

Decimated Ocean Data View import data file:

- http://ssds.shore.mbari.org/auvctd/surveys/2012/odv/Dorado389_2012_152_00_152_00.txt

Gulper bottle numbers and data at sample collection (ODV tab-delimited) file:

- http://ssds.shore.mbari.org/auvctd/surveys/2012/odv/Dorado389_2012_152_00_152_00_Gulper.txt

Google Earth sensor point tracks

- http://dods.mbari.org/data/auvctd/surveys/2012/kml/Dorado389_2012_152_00_152_00.kml

The above web links are a mapping from the \\tornado\auvctd\surveys\2012 directory. You may get the data from this network share or from the above URLs.

The processing log output:

- http://ssds.shore.mbari.org/auvctd/surveys/2012/logs/Dorado389_2012.152.00_152.00_diary.log
- AUVprocess_main run by ssdsadmin on elvis.shore.mbari.org at 01-Jun-2012 15:05:40

AUV survey Dorado389_2012_157_07_157_07 beginning on 05-Jun-2012 has been processed using ctd2.

Below are the science data products now available for review:

Quick look plots:

- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_157_07_157_07_biolume.png (fixed contour limits)
- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_157_07_157_07_2column.png (free contour limits)
- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_157_07_157_07_lopc.png (LOPC count data)
- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_157_07_157_07_nav_adjust.png
- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_157_07_157_07_hist_stats.png
- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_157_07_157_07_prof_stats.png

Full resolution matlab data file:

- http://ssds.shore.mbari.org/auvctd/surveys/2012/mat/Dorado389_2012_157_07_157_07.mat

it's NetCDF counterpart (via OPeNDAP URL):

- http://dods.mbari.org/cgi-bin/nph-nc/data/auvctd/surveys/2012/netcdf/Dorado389_2012_157_07_157_07.nc.html

Decimated NetCDF file (sampled at the ISUS or 2 sec sampling frequency) with all variables interpolated to the same time axis:

- http://dods.mbari.org/cgi-bin/nph-nc/data/auvctd/surveys/2012/netcdf/Dorado389_2012_157_07_157_07_decim.nc.html

Decimated Ocean Data View import data file:

- http://ssds.shore.mbari.org/auvctd/surveys/2012/odv/Dorado389_2012_157_07_157_07.txt

Gulper bottle numbers and data at sample collection (ODV tab-delimited) file:

- http://ssds.shore.mbari.org/auvctd/surveys/2012/odv/Dorado389_2012_157_07_157_07_Gulper.txt

Google Earth sensor point tracks

- http://dods.mbari.org/data/auvctd/surveys/2012/kml/Dorado389_2012_157_07_157_07.kml

The above web links are a mapping from the \\tornado\auvctd\surveys\2012 directory. You may get the data from this network share or from the above URLs.

The processing log output:

- http://ssds.shore.mbari.org/auvctd/surveys/2012/logs/Dorado389_2012.157.07_157.07_diary.log

AUV survey Dorado389_2012_158_00_158_00 beginning on 06-Jun-2012 has been processed using ctd2.

Below are the science data products now available for review:

Quick look plots:

- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_158_00_158_00_biolume.png (fixed contour limits)
- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_158_00_158_00_2column.png (free contour limits)
- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_158_00_158_00_lopc.png (LOPC count data)
- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_158_00_158_00_nav_adjust.png
- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_158_00_158_00_hist_stats.png
- http://ssds.shore.mbari.org/auvctd/surveys/2012/images/Dorado389_2012_158_00_158_00_prof_stats.png

Full resolution matlab data file:

- http://ssds.shore.mbari.org/auvctd/surveys/2012/mat/Dorado389_2012_158_00_158_00.mat

it's NetCDF counterpart (via OPeNDAP URL):

- http://dods.mbari.org/cgi-bin/nph-nc/data/auvctd/surveys/2012/netcdf/Dorado389_2012_158_00_158_00.nc.html

Decimated NetCDF file (sampled at the ISUS or 2 sec sampling frequency) with all variables interpolated to the same time axis:

- http://dods.mbari.org/cgi-bin/nph-nc/data/auvctd/surveys/2012/netcdf/Dorado389_2012_158_00_158_00_decim.nc.html

Decimated Ocean Data View import data file:

- http://ssds.shore.mbari.org/auvctd/surveys/2012/odv/Dorado389_2012_158_00_158_00.txt

Gulper bottle numbers and data at sample collection (ODV tab-delimited) file:

- http://ssds.shore.mbari.org/auvctd/surveys/2012/odv/Dorado389_2012_158_00_158_00_Gulper.txt

Google Earth sensor point tracks

- http://dods.mbari.org/data/auvctd/surveys/2012/kml/Dorado389_2012_158_00_158_00.kml

The above web links are a mapping from the \\tornado\auvctd\surveys\2012 directory. You may get the data from this network share or from the above URLs.

The processing log output:

- http://ssds.shore.mbari.org/auvctd/surveys/2012/logs/Dorado389_2012.158.00_158.00_diary.log

ESP

- No ESP deployed during May/June 2012 Experiment

Waveglider, LCS and Fulmar plots

- Waveglider: STOQS: http://odss-staging.shore.mbari.org/canon/stoqs_may2012/query/
- Mount the folder //atlas/ODSS/data/canon directly without FTP
 1. 2012_May/waveglider/figures,
 2. 2012_May/lcs/figures,
 3. 2012_May/RV_Fulmar/figures
- - This central repository is available for platform data as well as generated plots. Plots can be accessed via the Cosci perspective of ODSS.
 - Alternative: There is an FTP accessible fileshare available on the server beach
 - If you do not have FTP experience, it is recommended to use FileZilla, a free FTP client ([--http://filezilla-project.org/](http://filezilla-project.org/))
 - MBARI IS is reporting some difficulties with FileZilla after the move to the new Atlas file server. They now recommend using FireFTP, an FTP client addin for FireFox, Chrome and Internet Explorer. <http://fireftp.mozdev.org/>
 - Or if you are a google chrome user, <https://chrome.google.com/webstore/detail/ehdgcfaoankkonoiichmbcfijkomfbn#detail/ehdgcfaoankkonoiichmbcfijkomfbn>
 - Log into the FTP site, and browse to the directory for the latest CANON campaign, ex. CANON_2012_May
 - server: beach.mbari.org
 - user: canon
 - pass: canon2011
- here are some examples:
 1. ftp://canon:canon2011@beach.mbari.org/2012_May/RV_Fulmar/html/Fulmar_06Jun12.htm
 2. ftp://canon:canon2011@beach.mbari.org/2012_May/lcs/html/LCS_06Jun12.htm
 3. ftp://canon:canon2011@beach.mbari.org/2012_May/waveglider/html/waveglider_leg11.htm

Information about STOQS

About STOQS

STOQS (Spatial Temporal Oceanographic Query System) is a geospatial database web application designed for providing efficient access to in situ oceanographic measurement data across any dimension. Where "dimension" is considered in the broadest sense, for example: any spatial dimension, time, the collection of platforms, any other parameter value in the database.

Use Case

Precondition:

Observational data from a variety of platforms (Gliders, AUVs, Shipboard systems) are individually available from OPeNDAP servers.

Goal:

Retrieve data by parameter name across all platforms in a specific area over a specific span of time

Data Management Niche

STOQS complements other data management technologies such as NetCDF and OPeNDAP by providing an ability to index data retrieval across parameter and spatial dimensions in addition to the a priori indexed coordinate dimensions of CF-NetCDF. It also provides a functional bridge between NetCDF and Geographic Information Systems technologies.

Operation

Data is loaded into STOQS from a variety of data sources, including OPeNDAP data sets, other relational databases, and flat files. Products are delivered in a variety of formats, including KML, via REST-style web requests. STOQS was developed at the Monterey Bay Aquarium Research Institute (MBARI) and is used within the Oceanographic Decision Support System (ODSS) to provide data management for campaign-oriented multi-platform investigations of oceanographic processes.

Access

The MBARI Oceanographic Decision Support System (ODSS) hosts <http://odss.mbari.org/canon/default/query/> to provide access to upper water column in situ measurement data collected as part of the Controlled, Agile and Novel Observing Network (CANON) project.

For more information, contact a member of the ODSS engineering team to get a personal overview and walk-through of STOQS and the query interface.

CANON 2012 Sept MB Data Archive Description

This page last changed on Sep 26, 2012 by [duane](#).

Link to this page: <https://oceana.mbari.org/confluence/display/CDATA/CANON+2012+Sept+MB+Data+Archive+Description>

Back to [CANON Data Archive Descriptions](#)

CANON Sept 1 – Sept 26, 2012 Experiment

Fall 2012 CANON Experiment Sep 10 - Sep 19 2012

[Platform Timeline Sep 2012](#)

Research focus: Nitrogen biogeochemical dynamics along upwelling gradients in the California Current System. Studies in the Coastal Transition Zone.

The Fall experiment will be in-between the inshore region and the California Current jet, the so-called Coastal Transition Zone (CTZ)

[Sept High Level Plan](#)

This is part two of a two part experiment, the first part conducted in Spring 2012.

[Dorado AUV Survey Design for the September 2012 CANON Experiment](#)

[CANON Fall 2012 Experiment: Reconnaissance Planning](#)

[Line 67](#)

[Operational collision avoidance strategy for CANON-2012](#)

[Wester Flyer Cruise plan](#)

[Adding your data as a mpa overlay in ODSS](#)

List of assets and their dates:

- Deploy Wave Glider Sept 1. Data stream to start Sept 4.
- Deploy LRAUV Tethys Sept 5 Sept 6. Recover Sept 26
- Deploy LRAUV Daphne Sept 10. Recover Sept 26 Sept 10. No data.
- Western Flyer Cruise Sept 10, returns Sept 19. CTD casts, water samples. ODSS served locally on board WF, synched with ODSS server on shore
- Zephyr Cruise Sept 10, Return Sept 14.
 - Deploy Dorado daily during Zephyr cruise, with 24 hr. deploy/recover/recharge/redeploy tempo
- Deploy ESP drifter, with Dorado coordinated with ESP drifter as it drifts, see: [Dorado AUV Survey Design for the September 2012 CANON Experiment](#)

[Distributed Deployment Planning](#)

[Summary of CANON 2012 Fall Activities and Experiment](#)

LRAUV (Tethys, Daphne)

- Real time data and data products: <http://aosn.mbari.org/sbdlogs/>
- Full resolution post deployment data and products: \\atlas\ProjectLibrary\900739.LRAUV.Data\Testing
- STOQS: http://odss-staging.shore.mbari.org/canon/stoqs_september2012/query/

Mooring Data

- <http://dods.mbari.org/data/ssdsdata/deployments/previous.html>
 - M1: [201202](#) 2012-02-22 to present
- SSDS: <http://new-ssds.mbari.org/ssds/faces/explorer.jsp> (Select "Mooring" from the drop down and explore the tree)
- THREDDS (one stop shop): <http://elvis.shore.mbari.org/thredds/OSMooringCatalog.html>

Dorado AUV Data

- [AUV 2012 Deployments \(raw vehicle files\)](#) (YD 256 to 258)
- [AUV 2012 Deployments \(netcdf files\)](#)
- [AUV 2012 Science Data Products](#)

ESP

- ESP drifter deployed during Sept 2012 Experiment
 - see CANON_Drifter_ESPMOE_2012 in ftp directory below:
 - [2012 ESP Deployment FTP Site](#)
 - [ESP GUI \(JNLP\)](#)
 - [ESP GUI User Manual](#)
 - [ESP Drifter environmental sensors STOQS](#)

Stella and ESP drifter

You can access the position data in .csv format for the Stella and ESP drifters for just the time they were in the water with these web requests:

<http://odss.mbari.org/trackingdb/position/ESP/between/20120911T200000/20120917T174500/stride/100/data.csv>
<http://odss.mbari.org/trackingdb/position/stella104/between/20120912T010500/20120918T020500/data.csv>
<http://odss.mbari.org/trackingdb/position/stella111/between/20120912T010700/20120914T001500/data.csv>
<http://odss.mbari.org/trackingdb/position/stella111/between/20120914T141000/20120915T210000/data.csv>
<http://odss.mbari.org/trackingdb/position/stella101/between/20120912T010300/20120914T002000/data.csv>
<http://odss.mbari.org/trackingdb/position/stella101/between/20120914T140300/20120915T141500/data.csv>
<http://odss.mbari.org/trackingdb/position/stella103/between/20120915T220500/20120916T222000/data.csv>
<http://odss.mbari.org/trackingdb/position/stella101/between/20120916T134100/20120917T152500/data.csv>
<http://odss.mbari.org/trackingdb/position/stella101/between/20120918T142000/20120919T142500/data.csv>
<http://odss.mbari.org/trackingdb/position/stella103/between/20120919T132500/20120920T021000/data.csv>

You may replace the '.csv' with '.html' to just see the data in a web page, or with '.kml' to load them into Google Earth. See attached [KML](#) file to see all of these in Google Earth. (You'll need to fiddle with the time line slider in the upper right of the main window to see them all.)

Here's a compilation of the recovered emails Mike McCann (see COSCI perspective) sent out, with the correction for the array line length:

stella101 - with 80m of line arrayed with bottles for incubation
deployed: 11 Sept 2012 1803 PDT: 20120912T010300 Z
recovered: 13 Sept 2012 1720 PDT: 20120914T002000 Z

stella111 - with 10m drogue
deployed: 11 Sept 2012 1807 PDT: 20120912T010700 Z
recovered 13 Sept 2012 1715 PDT: 20120914T001500 Z

stella101 - with 80m of line arrayed with bottles for incubation
deployed: 14 Sept 2012 0703 PDT: 20120914T140300 Z
recovered: 15 Sept 2012 0715 PDT: 20120915T141500 Z

stella111 - with 10m drogue
deployed: 14 Sept 2012 0710 PDT: 20120914T141000 Z
recovered 15 Sept 2012 1400 PDT: 20120915T210000 Z

stella103 - with 80m of line arrayed with bottles for incubation
deployed: 15 Sept 2012 1505 PDT: 20120915T220500 Z
recovered 16 Sept 2012 1520 PDT: 20120916T222000 Z

stella101 - with 80m of line arrayed with bottles for incubation
deployed: 16 Sept 2012 0641 PDT: 20120916T134100 Z
recovered 17 Sept 2012 0825 PDT: 20120917T152500 Z

stella104 - with 3m drogue
deployed: 11 Sept 2012 1805 PDT: 20120912T010500 Z
recovered: 17 Sept 2012 1905 PDT: 20120918T020500 Z

stella101 - with 80m of line arrayed with bottles for incubation
deployed: 18 Sept 2012 0720 PDT: 20120918T142000 Z
recovered 19 Sept 2012 0725 PDT: 20120919T142500 Z

stella103 - with 80m of line arrayed with bottles for incubation
deployed: 19 Sept 2012 0625 PDT: 20120919T132500 Z
recovered: 20 Sept 2012 1910 PDT: 20120920T021000 Z

Western Flyer Underway CTD (UCTD) and Profiling CTD (PCTD)

- [2012 CANON September profiling CTD data](#)
- [2012 CANON September underway CTD data](#)
 - [2012 CANON September underway CTD data STOQS](#)

Waveglider and LCS plots

- Waveglider: STOQS: http://odss-staging.shore.mbari.org/canon/stoqs_september2012/query/
- Mount the folder //atlas/ODSS/data/canon directly without FTP
 1. 2012_Sep/waveglider/figures,
 2. 2012_Sep/lcs/figures,
- [Screenshot of Sep 2012 directory structure](#)
 - This central repository is available for platform data as well as generated plots. Plots can be accessed via the Cosci perspective of ODSS.
- Alternative: There is an FTP accessible fileshare available on the server beach
 - If you do not have FTP experience, it is recommended to use FileZilla, a free FTP client ([--http://filezilla-project.org/](http://filezilla-project.org/))
 - MBARI IS is reporting some difficulties with FileZilla after the move to the new Atlas file server. They now recommend using FireFTP, an FTP client addin for FireFox, Chrome and Internet Explorer. <http://fireftp.mozdev.org/>
 - Or if you are a google chrome user, <https://chrome.google.com/webstore/detail/ehdgcfaoankkonoichmbcfijkomfbn#detail/ehdgcfaoankkonoichmbcfijkomfbn>
 - Log into the FTP site, and browse to the directory for the latest CANON campaign, ex. CANON_2012_May
 - server: beach.mbari.org
 - user: canon
 - pass: canon2011
- here are some examples:
 1. ftp://canon:canon2011@beach.mbari.org/2012_May/RV_Fulmar/html/Fulmar_06Jun12.htm
 2. ftp://canon:canon2011@beach.mbari.org/2012_May/lcs/html/LCS_06Jun12.htm
 3. ftp://canon:canon2011@beach.mbari.org/2012_May/waveglider/html/waveglider_leg11.htm

Information about STOQS

About STOQS

STOQS (Spatial Temporal Oceanographic Query System) is a geospatial database web application designed for providing efficient access to in situ oceanographic measurement data across any dimension. Where "dimension" is considered in the broadest sense, for example: any spatial dimension, time, the collection of platforms, any other parameter value in the database.

Use Case

Precondition:

Observational data from a variety of platforms (Gliders, AUVs, Shipboard systems) are individually available from OPeNDAP servers.

Goal:

Retrieve data by parameter name across all platforms in a specific area over a specific span of time

Data Management Niche

STOQS complements other data management technologies such as NetCDF and OPeNDAP by providing an ability to index data retrieval across parameter and spatial dimensions in addition to the a priori indexed coordinate dimensions of CF-NetCDF. It also provides a functional bridge between NetCDF and Geographic Information Systems technologies.

Operation

Data is loaded into STOQS from a variety of data sources, including OPeNDAP data sets, other relational databases, and flat files. Products are delivered in a variety of formats, including KML, via REST-style web requests. STOQS was developed at the Monterey Bay Aquarium Research Institute (MBARI) and is used within the Oceanographic Decision Support System (ODSS) to provide data management for campaign-oriented multi-platform investigations of oceanographic processes.

Access

The MBARI Oceanographic Decision Support System (ODSS) hosts <http://odss.mbari.org/canon/default/query/> to provide access to upper water column in situ measurement data collected as part of the Controlled, Agile and Novel Observing Network (CANON) project.

For more information, contact a member of the ODSS engineering team to get a personal overview and walk-through of STOQS and the query interface.

CANON ECOHAB 2013 March SoCal Data Archive Description

This page last changed on May 14, 2013 by [duane](#).

Link to this page: <https://oceana.mbari.org/confluence/display/CDATA/CANON+ECOHAB+2013+March+SoCal+Data+Archive+Description>

Back to [CANON Data Archive Descriptions](#)

Spring 2013 ECOHAB CANON Experiment March - April 2013

Spring Experiment Context:

The spring 2013 experiment is the first of two planned collaborations between MBARI's CANON Initiative and the NOAA ECOHAB project entitled, A Regional Comparison of Upwelling and Coastal Land Use Patterns on the Development of HAB Hotspots Along the California Coast. Institutions participating in the ECOHAB project are UCSC (lead R. Kudela), MBARI, MLML, CeNCOOS, USC, SCCWRP, JPL, and NOAA. This first experiment will take place in the San Pedro Bay region during March - April, 2013.

[CANON / ECOHAB Spring 2013 Experiment Plan \(20 February 2013\)](#)

Platform Timeline (March-April 2013)

PI	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5		
ESPs						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
LRAUV Tethys								T	T	D	B	B	B	B	B	B	R	D	B	B	B	B	B	B	B	R	T									
LRAUV Daphne								T	T	D	L	L	L	L	L	L	R	D	L	L	L	L	L	L	R	T										
Rachelt Carson		T										X	X	X				X	X	X																
AUV Dorado												X	X	X				X	X	X																
Waveglider Tex																																				
Waveglider OA																																				
USC gliders						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Stella Drifters													X	X	X					X	X	X														
AUV Iver EcoMapper																																				
R/ V Yellowfin																																				

This is part one of a two part experiment, the second part conducted in Fall of 2013.

Daily reports:

- [Daily reports](#)
- [Post-RC update](#)

Email archive:

- email archive at CANON-ECOHAB Distribution List [<canon-ecohab@listserver.mbari.org>](mailto:canon-ecohab@listserver.mbari.org)

LRAUV (Tethys, Daphne)

- Real time data and data products: <http://aosn.mbari.org/sbdlogs/>
- The LRAUV section plots: https://odss.mbari.org/data/canon/2013_Mar/dropbox/sections_LRAUV/
- Full resolution post deployment data and products: \\atlas\ProjectLibrary\900739.LRAUV.Data\Testing
- STOQS: https://odss.mbari.org/canon/stoqs_march2013_s/query/

Dorado AUV Data

- [AUV 2013 Deployments \(raw vehicle files\)](#) (YD 74 to 81)
- [AUV 2013 Deployments \(netcdf files\)](#)
- [AUV 2013 Science Data Products](#)

ESP

- ESP BRUCE and MACK deployed during March 2013 Experiment
 - see EcoHAB in ftp directory below:
 - [2013 ESP Deployment FTP Site](#)
 - [ESP GUI \(JNLP\)](#)
 - [ESP GUI User Manual](#)
 - [ESP environmental sensors](#)

Stella drifters

Here's a compilation of the "Stella recovered" or "Stella re-deployed" emails Mike McCann sent out (see canon-ecohab@listserver.mbari.org archive):

stella108 with 9 m drogue:
deployed: 21 March 2013 1500 PDT: 20130321T220000 Z
recovered: 22 March 2013 1448 PDT: 20130322T214800 Z

KML: <http://odss.mbari.org/trackingdb/position/stella108/between/20130321T220000/20130322T214800/data.kml>

stella110 with 24 m drogue:
deployed: 21 March 2013 1349 PDT: 20130321T204900 Z
recovered: 22 March 2013 1350 PDT: 20130322T20500 Z

KML: <http://odss.mbari.org/trackingdb/position/stella110/between/20130321T204900/20130322T20500/data.kml>

stella104 with 5 m drogue:
deployed: 20 March 2013 1004 PDT: 20130320T170400 Z
recovered: 22 March 2013 0630 PDT: 20130322T13300 Z

KML: <http://odss.mbari.org/trackingdb/position/stella104/between/20130320T170400/20130322T13300/data.kml>

Drifter stella108 with drogue at 9 m deployed near Mack at 21 March 2013 1500 PDT: 20130321T220000 Z

stella110 with 24 m drogue:
deployed: 21 March 2013 1349 PDT: 20130321T204900 Z
recovered: 22 March 2013 1350 PDT: 20130322T20500 Z

KML: <http://odss.mbari.org/trackingdb/position/stella110/between/20130321T204900/20130322T20500/data.kml>

stella104 with 5 m drogue:
deployed: 20 March 2013 1004 PDT: 20130320T170400 Z
recovered: 22 March 2013 0630 PDT: 20130322T13300 Z

KML: <http://odss.mbari.org/trackingdb/position/stella104/between/20130320T170400/20130322T13300/data.kml>

stella104 with 5 m drogue:
deployed: 20 March 2013 1004 PDT: 20130320T170400 Z
recovered: 22 March 2013 0630 PDT: 20130322T13300 Z

KML: <http://odss.mbari.org/trackingdb/position/stella104/between/20130320T170400/20130322T13300/data.kml>

Drifter stella108 with drogue at 9 m deployed near Mack at 21 March 2013 1500 PDT: 20130321T220000 Z

stella108 with 9 m drogue:
deployed: 20 March 2013 1210 PDT: 20130320T191000 Z
recovered: 21 March 2013 1430 PDT: 20130321T213000 Z

KML: <http://odss.mbari.org/trackingdb/position/stella108/between/20130320T191000/20130321T213000/data.kml>

Drifter stella110 with drogue at 24 m deployed near Bruce at 21 March 2013 1349 PDT: 20130321T204900 Z

stella110 with 24 m drogue:
deployed: 20 March 2013 1240 PDT: 20130320T194000 Z
recovered: 21 March 2013 1240 PDT: 20130320T194000 Z

KML: <http://odss.mbari.org/trackingdb/position/stella110/between/20130320T194000/20130321T194000/data.kml>

Drifter stella110 with drogue at 24 m deployed near Bruce at 20 March 2013 1240 PDT: 20130320T194000 Z

Drifter stella108 with drogue at 9 m deployed near Mack at 20 March 2013 1210 PDT: 20130320T191000 Z

Drifter stella104 with drogue at 5m deployed 10 km northwest of ESP array at 20 March 2013 1004 PDT: 20130320T170400 Z

Drifter stella111 with drogue at 5m deployed off Palos Verdes peninsula at 20 March 2013 0742 PDT: 20130320T144200 Z

stella110 with 9m drogue:
deployed: 16 March 2013 0835 PDT: 20130316T153500 Z
recovered: 17 March 2013 1519 PDT: 20130317T221900 Z

KML: <http://odss.mbari.org/trackingdb/position/stella110/between/20130316T153500/20130317T221900/data.kml>

stella108 with 24m drogue:
deployed: 16 March 2013 0750 PDT: 20130316T145000 Z
recovered: 17 March 2013 1500 PDT: 20130317T220000 Z

KML: <http://odss.mbari.org/trackingdb/position/stella108/between/20130316T145000/20130317T220000/data.kml>

Drifter stella110 with drogue at 9m deployed near Mack at 16 March 2013 0835 PDT: 20130316T153500Z

stella108 with 24m drogue:
deployed: 16 March 2013 0750 PDT: 20130316T145000 Z
recovered: 17 March 2013 1500 PDT: 20130317T220000 Z

KML: <http://odss.mbari.org/trackingdb/position/stella108/between/20130316T145000/20130317T220000/data.kml>

stella111 with 5 m drogue:
deployed: 20 March 2013 0742 PDT: 20130320T144200 Z
recovered: 21 March 2013 0955 PDT: 20130321T165500 Z

KML: <http://odss.mbari.org/trackingdb/position/stella111/between/20130320T144200/20130321T165500/data.kml>

Drifter stella110 with drogue at 9m deployed near Mack at 16 March 2013 0835 PDT: 20130316T153500Z

Drifter stella108 with drogue at 24m deployed near Bruce at 16 March 2013 0750 PDT:
20130316T145000Z

USC Gliders

- [Carmen](#)
- [HeHaPe](#)
- [Rusalka](#)

Wirewalker

- [Wirewalker plots](#)

Rachel Carson Underway CTD (UCTD) and Profiling CTD (PCTD)

- [2013 CANON March profiling CTD data](#)
- [2013 CANON March underway CTD data](#)
 - [2013 CANON March underway CTD data STOQS](#)

Yellowfin Profiling CTD

- [2013 CANON March profiling CTD data](#)

Information about STOQS

About STOQS

STOQS (Spatial Temporal Oceanographic Query System) is a geospatial database web application designed for providing efficient access to in situ oceanographic measurement data across any dimension. Where "dimension" is considered in the broadest sense, for example: any spatial dimension, time, the collection of platforms, any other parameter value in the database.

Use Case

Precondition:

Observational data from a variety of platforms (Gliders, AUVs, Shipboard systems) are individually available from OPeNDAP servers.

Goal:

Retrieve data by parameter name across all platforms in a specific area over a specific span of time

Data Management Niche

STOQS complements other data management technologies such as NetCDF and OPeNDAP by providing an ability to index data retrieval across parameter and spatial dimensions in addition to the a priori indexed coordinate dimensions of CF-NetCDF. It also provides a functional bridge between NetCDF and Geographic Information Systems technologies.

Operation

Data is loaded into STOQS from a variety of data sources, including OPeNDAP data sets, other relational databases, and flat files. Products are delivered in a variety of formats, including KML, via REST-style web requests. STOQS was developed at the Monterey Bay Aquarium Research Institute (MBARI) and is used within the Oceanographic Decision Support System (ODSS) to provide data management for campaign-oriented multi-platform investigations of oceanographic processes.

Access

The MBARI Oceanographic Decision Support System (ODSS) hosts <http://odss.mbari.org/canon/default/query/> to provide access to upper water column in situ measurement data collected as part of the Controlled, Agile and Novel Observing Network (CANON) project.

For more information, contact a member of the ODSS engineering team to get a personal overview and walk-through of STOQS and the query interface.

Comments

Predeploy plans for the Carson are available at these links:

<https://mwww.mbari.org/expd/log/postcruise.asp?step=display&ExpeditionID=4706>
<https://mwww.mbari.org/expd/log/postcruise.asp?step=display&ExpeditionID=4707>
<https://mwww.mbari.org/expd/log/postcruise.asp?step=display&ExpeditionID=4708>
<https://mwww.mbari.org/expd/log/postcruise.asp?step=display&ExpeditionID=4709>
<https://mwww.mbari.org/expd/log/postcruise.asp?step=display&ExpeditionID=4710>
<https://mwww.mbari.org/expd/log/postcruise.asp?step=display&ExpeditionID=4711>

Posted by [mccann](#) at Mar 29, 2013.

Canon Spring 2013

This page last changed on Mar 04, 2013 by [duane](#).

Data Analysis and Classification Group

This page last changed on Mar 08, 2012 by [reiko](#).

Data Analysis and Classification working group is a team of scientists who actively analyze CANON data. The 'DAC' is the user base that drives the requirements for the 'Data Analysis' feature in the ODSS.

Reiko's writeup on accessing BOG data: [Accessing the BOG database from Matlab](#)

Guidelines for Data Providers

- For the experiment, a central repository is available for platform data, generated products, and sample information
- There is an FTP accessible file share available on the server beach.mbari.org
 - If you do not have FTP experience, it is recommended to use FileZilla, a free FTP client (<http://filezilla-project.org/>)
 - MBARI IS is reporting some difficulties with FileZilla after the move to the new Atlas file server. They now recommend using FireFTP, an FTP client addin for FireFox. <http://fireftp.mozdev.org/>
 - Or if you are a google chrome user, <https://chrome.google.com/webstore/detail/ehdgcfaoankkonoichmblcfijkomfbn#detail/ehdgcfaoankkonoichmblcfijkomfbn>
- Log into the FTP site, and browse to the directory for the latest CANON campaign, ex. 2013_Sep
 - server: beach.mbari.org
 - user: canon
 - pass: canon2011

Directory Structure



The directories that are bolded and underlined are the directories where NetCDF files will be located and then those files will be served through the ODSS THREDDS server and loaded into STOQS.

The directory structure for the repository follows a convention that looks like the following:

- Platforms
 - AUVs
 - Daphne (Brian K)
 - **NetCDF**
 - Dorado (Mike M)
 - **NetCDF**
 - Processed (The products from the science data processing of the mission should go here (.png, .nc, etc.))
 - PortoAUV (Kanna/Jose)
 - Tethys (Brian K)
 - **NetCDF**
 - Drifters
 - Android (Tom O)
 - **NetCDF**
 - Floats (Francisco)
 - LST_1 (Alana)
 - **NetCDF**
 - LST_2 (Alana)
 - **NetCDF**
 - Stella (Tracks only)
 - Gliders
 - Slocum_Teledyne (Fred)
 - Slocum_UCSC_1 (Fred)
 - Slocum_UCSC_2 (Fred)
 - Spray_Line67 (Fred)
 - Spray_NPS_1 (Fred)
 - Spray_NPS_2 (Fred)
 - WG_OA (Fred/Kevin)
 - **NetCDF**
 - WG_Tex (Fred/Kevin)
 - **NetCDF**
 - Hotspot: These are the files that are copied to and from the Waveglider. The SDB messages need to be published to AMQP

- Moorings
 - ESP_1 (Kevin)
 - **NetCDF**
 - can.csv
 - ctd.csv
 - ESP_2 (Kevin)
 - **NetCDF**
 - can.csv
 - ctd.csv
 - M1 (Mike M)
 - NetCDF already exists on elvis THREDDS server
 - M46044 (Mike M)
 - NetCDF already exists on elvis THREDDS server
 - OA_1 (Fred)
 - NetCDF already exists on elvis THREDDS server
 - OA_2 (Fred)
 - NetCDF already exists on elvis THREDDS server
- Ships
 - Fulmar - Tracks only
 - Martin (Monique)
 - **NetCDF**
 - Paragon - Tracks?
 - Rachel_Carson (Kevin)
 - **NetCDF**
 - Western_Flyer (Kevin)
 - **NetCDF**
- Products
 - TBD
- Samples
 - The goal is to have a web form in the ODSS that users fill out with information about their samples and then the ODSS creates a CSV file with the information about the samples that can be loaded into STOQS.

ODSS Instructions for ship and for shore operations during Sept 2012 CANON campaign

[ODSS Instructions for ship operations during Sept 2012 CANON Campaign](#)

ODSS Instructions for ship operations during Sept 2012 CANON Campaign

To send data products from personnel on the Western Flyer (WF) to shore:

1. FTP to malibu.wf.mbari.org if you are on the Flyer network
(or to 192.168.111.177 if you are on the vsat network)
as user:
canon
(p/w: *canon2011*)
2. In there, there are several directories; the one you care about is '2012_Sep'.
Everything in this directory is what one sees in the lower left panel of the ODSS situational awareness perspective.
3. There are a couple of special directories
 - a. 'roms'. This is a directory for the ROMS data files and this is pushed out to the WF. Only ROMS data files should be put here, nothing else. Do not add anything to this directory while on the WF - this directory is not mirrored back to shore
 - b. 'misc'. This directory is the fully mirrored directory on the Flyer (5 minute refresh). If one puts something in this directory (either on shore (odds/beach) or on WF (malibu)) it will appear in both ODSS locations under the 'misc' tree item.
NOTE: be careful of file size in the misc directory: every file added to this directory sweeps to/from the WF over the vsat link, which is expensive, so use it with caution and wisely.

COSCI

For this campaign, please **do not** email large attachments (plots etc) to cosci@mbari.org. When you do, each recipient gets a copy of the attachment, which adds up if the email has gone over vsat system to the WF one by one to each recipient. **Instead**, ftp the attachment to the misc directory, and tell in your cosci@mbari.org email the name of the file you want people to look at. Then only one copy will transfer across vsat, saving money.

ODSS Instructions for shore operations during Sept 2012 CANON Campaign

ODSS Instructions for shore operations during Sept 2012 CANON Campaign

To send data products to personnel on the Western Flyer (WF):

1. FTP to odss.mbari.org (or beach.mbari.org) as user:
canon
(p/w: *canon2011*)
2. In there, there are several directories; the one you care about is '2012_Sep'. Everything in this directory is what one sees in the lower left panel of the ODSS situational awareness perspective.
3. There are a couple of special directories:
 - a. 'roms'. This is a directory for the ROMS data files and this is pushed out to the WF. Only ROMS data files should be put here, nothing else.
 - b. 'misc'. This directory is the fully mirrored directory on the Flyer (5 minute refresh). If one puts something in this directory (either on shore (odss/beach) or on WF (malibu)) it will appear in both ODSS locations under the 'misc' tree item.
NOTE: be careful of file size in the misc directory: every file added to this directory sweeps to/ from the WF over the vsat link, which is expensive, so use it with caution and wisely.

COSCI

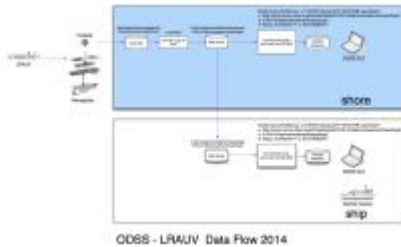
For this campaign, please **do not** email large attachments (plots etc) to cosci@mbari.org. When you do, each recipient gets a copy of the attachment, which adds up if the email has gone over vsat system to the WF one by one to each recipient. **Instead**, ftp the attachment to the misc directory, and tell in your cosci@mbari.org email the name of the file you want people to look at. Then only one copy will transfer across vsat, saving money.

ODSS Data Flows

This page last changed on Apr 22, 2014 by [dcline](#).

This page describes the data flows for various platforms that produce data presented in the ODSS software system. This is a work-in-progress and expect changes to this as these evolve.

LRAUV data flow



[graffle file](#)

There is a single script for both loading and conversion/interpolation from .nc4 to .nc called [monitorLrauvHotSpot.py](#).

It should be put in a cron job that runs frequently enough to do the conversion as the files come in over hotspot.

Loads will happen sometime later when the .nc files are cataloged in the thredds server. Maybe once an hour ?

The monitor scripts uses the netCDF converter [lrauvNc4ToNetcdf.py](#) which does the interpolation and resampling to create a CF-1.6 Discrete Sampling Geometry NetCDF file where all the variables are interpolated onto the same time axis. This file can be loaded into STOQS. In this file raw data are interpolated to 500 msec frequency then resampled at 2 second frequency.

Example syntax is as follows (on shore):

```
convertLrauvHotSpot.py -d 'CANON Spring 2014 ECOHAB experiment' -u 'http://elvis.shore.mbari.org/thredds/dodsC/LRAUV/daphne/realtime/hotspotlogs/' -o '/LRAUV/daphne/realtime/hotspotlogs/' -b 'stoqs_ecohab2014' -c 'ECOHAB2014'
```

On the boat, you would replace the url with the threads server that is hosting the data there.

Comments

A shell script was added to the STOQS code base for running this script from cron:

<https://code.google.com/p/stoqs/source/browse/loaders/CANON/realtime/monitorLrauvHotSpot.sh>

And a cron job was set up on kraken to run it:

```
23 * * * * /opt/stoqshg/loaders/CANON/realtime/monitorLrauvHotSpot.sh > /dev/null 2>&1
```

Posted by [mccann](#) at Apr 22, 2014.

I like the idea of keeping the interpolation/resampling/binning code in python. This makes it easier to modify and/or maintain without digging into the compiled code (which is more tightly integrated into the executables that run on the vehicle).

Posted by [mjstanway](#) at Apr 24, 2014.

ODSS Planning

This page last changed on Sep 18, 2014 by [reiko](#).

This confluence page is for CANON Experiment Planning and is linked to the ODSS Planning Tab. It's location from the Confluence dashboard is CANON Data > ODSS Planning

Link to this page: <https://oceana.mbari.org/confluence/display/CDATA/ODSS+Planning>

2014 CANON activities

2014 CANON Logistics Planning

[2014 CANON Logistics Planning Meeting Notes](#)

[CANON 20014 Fall Science Plan as of July 31, 2014](#) [tables from CANON 20014 Fall Science Plan](#) [doc](#)

[Ship Ops: Rachel Carson](#) [Ship Ops: Western Flyer](#)

[Sample Inventory App](#)

Fall 2014 Experiment summary:

For the 2014 Fall experiment the CANON team will follow a subsurface patch infused with two tracers, Rhodamine and SF6. The patch will also be marked with drifters, floats and an AUV and will be followed over multiple (1-3 weeks) days with a combination of AUVs, wave gliders and ships. The location of the experiment will be inshore of M1 where we know the processes of interest occur and the physical dynamics are weak and conducive to patch following. The scientific focus will be on the nitrogen cycle and specifically on the re-mineralization of organic matter to nitrate in the pycnocline where the patch and the assets will be deployed. Primary, new and export production will be measured using a variety of methods in an attempt to balance the inputs and outputs of nitrogen to and from the primary producers.

Fall 2013 CANON ECOHAB Experiment September 2013

Fall Experiment Context:

The fall 2013 experiment is the second of two planned collaborations between MBARI's CANON Initiative and the NOAA ECOHAB project entitled, A Regional Comparison of Upwelling and Coastal Land Use Patterns on the Development of HAB Hotspots Along the California Coast. Institutions participating in the ECOHAB project are UCSC (lead R. Kudela), MBARI, MLML, CeNCOOS, USC, SCCWRP, JPL, and NOAA. This second experiment will take place in the Monterey Bay region during September of 2013.

[2013 September campaign plan as of August 22, 2013 ppt](#)

[Chavez Straw Plan of activities for Fall CANON 2013](#)

[Chavez Overview CANON Fall 2013 Experiment Draft Questions and Plans; June 6 2013](#) [ppt](#)

[Proposal for ESP deployment during the CANON Fall 2013 Experiment; John Ryan; May 29, 2013](#)

[Samples Working Group](#)

[Data Products Working Group](#)

[Logistics Working Group](#)

[Autonomous Vehicles Working Group](#)

[ODSS and STOQS engineering status meeting notes](#)

Platform List

[2013 Fall CANON Campaign Timeline](#)

The platform list needs to be expanded to include all the science data streams for each platform, and a checklist of the STOQS loader for each data stream into STOQS.

1. Ships
 - a. Western Flyer
 - i. Location
 - ii. PCTD (profiling CTD)
 - iii. UCTD (underway CTD)
 - iv. Profiling Pump
 - i. Ammonia; Jason Smith Stanford
 - v. Optics
 - b. Rachel Carson
 - i. Location
 - ii. PCTD
 - iii. UCTD
 - iv. Profiling Pump
 - v. Optics
 - c. Paragon
 - i. Location
 - ii. no science data
 - i. LST glider and Drifter support
 - d. Martin
 - i. Location
 - ii. ECOHAB ?
 - iii. PCTD
 - iv. UCTD
 - v. Optics
 - e. Fulmar ?
 - i. Location
 - ii. PCTD
 - iii. UCTD
 - iv. Optics
 - f. AIS
 - i. want to see position of all the ships operating in the area
2. AUVs
 - a. Dorado
 - b. Tethys
 - i. Tethys
 - ii. Daphne
 - c. U of Porto ?
Seacon & Noptilus (2 AUVs)
 - d. other ?
3. Gliders
 - a. Spray Line 67
 - b. Spray NPS
 - i. Temperature
 - ii. Salinity
 - iii. Fluorometer or Backscatter (Turbidity)
 - c. Spray NPS
 - d. Slocum Teledyn
 - i. Temperature
 - ii. Salinity
 - e. Slocum UCSC
 - f. Slocum UCSC
 - g. Waveglider
 - i. Waveglider OA
 - ii. Waveglider TEX
4. Moorings
 - a. M1
 - b. M2H
 - c. OA 1
 - i. ocean acidification

- d. OA 2
 - i. winds ?
- e. ESP 1
- f. ESP 2
- g. other?
- 5. LST Drifter/other
 - a. LST 1
 - b. LST 2
 - c. Stella (1-n)
 - d. Android (1-n) ?
 - e. Floats
- 6. Models and more
 - a. ROMS 3K with NPS
 - i. ROMS-NPZD
 - b. Cowan Zooplankton system ?
 - i. tow device flow cam

Remote Sensing

- 1. TBD

Planned Activities

- 1. From Francisco's Email:
 - a. ESP deployment/recovery (Scholin et al.) - Sept 7 (Carson) - Oct 7 (Carson), how many, where, do/should we have a drifting ESP, is the schedule adaptive?
 - b. CARSON/Dorado - (Chavez et al.) - Sep 16-19, Sep 30 - Oct 3 Plan TBD (day trips)
 - c. Western Flyer - (Chavez et al.) - Sep 19 -26 Plan TBD
 - d. LRAUV - (Bellingham et al.) - 2 vehicles?, to match ESP deployment?, length of deployments?
 - e. Lagrangian sediment traps (Smith et al.) - 2 at 100, 200m? - Would like them spaced out through the experiment, how many deployments possible, what is the deployment duration, how many samples per deployment, how are samples divided, who wants sample?
 - f. Spray/Teledyne gliders (Chavez et al.) - Scripps one will be making the regular L67 transect, two available from NPS to be deployed late August, early September, one to make a section along mouth of bay, another between M1 and M2? Possibility of a deep Teledyne glider, what to do? Run until mid October
 - g. Wave gliders (Maughan et al.) - pCO2 glider going back and forth between M1 and M2, on same schedule as profiling gliders?, "engineering" glider?
 - h. Remote Sensing - (Ryan et al.) - ?
 - i. Modeling - ?
 - j. ODSS - Need to define needs ASAP
 - k. CARSON/DORADO - (Vrijenhoek, Rajan) - August 12-16, August 26, Sep 4, Oct 10, Oct 14, Oct 17, Oct 21-25
 - l. Western Flyer - (Worden) - Oct 7 - 17

Platform Timeline (September 2013)

Pla	9/1	9/2	9/3	9/4	9/5	9/6	9/7	9/8	9/9	9/10	9/11	9/12	9/13	9/14	9/15	9/16	9/17	9/18	9/19	9/20	9/21	9/22	9/23	9/24	9/25	9/26	9/27	9/28	9/29	9/30
ESP 1			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ESP 2			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Carson									X	X	X	X																		X
Dorado									X	X	X	X																		X
Flyer													X	X	X	X	X	X	X											

Paragon																						
Martin																						
Fulmar 																						
Tethys																						
Daphne																						
LST 1																						
LST 2																						
Spray L67																						
Spray NPS 1																						
Spray NPS 2																						
Slocum Teledyn																						
Slocum UCSC 1																						
Slocum UCSC 2																						
LR WG OA																						
LR WG TEX																						
U of Porto  Seacon & Noptilus (2 AUVs)																						
other 																						
M1																						

MBARI Carson crew

- Van going down, driving down on March 14th, returning the 23rd
 1. John Ryan
 2. Mike McCann
 3. Holly Bowers
 4. Nilo Alverado (works with Worden / Kudella)

Data flow

- LRAUV Tethys
- LRAUV Daphne
- Dorado (recovered daily). Mike is running the Dorado processing
 - The Lagrangian experiment is TREX following Stella drifters
 - two complete sets of gulpers
- Stella Drifters - 3 to 4 available on the Carson
- ESP data or plots coming to the ships
- ODSS on shore
- Shared directory Shore to/from Carson
- ROMS Model plots outputs: (list of variables/maps) Currents? What Depths? Integrated? Temperature?
 - Questions: space (x,y), domain? how to set the color axis scaling?
 - Model inputs: winds
- Model data comparisons (Jim Bellingham) - side by side plots. Assuming they are generated by Dorado, they will be made available in the shared directory / data view window
- Gliders (USC)
- How are we getting information from the Yellow Fin?
 - Dave is running YellowFin operations - we need to ask for the Yellow Fin "Dave Report" daily, with water sampling info.
 - Sampling group has had discussions on cranking the phytoplankton specific data
- Carson
 - Water sampling, John will work with Yellow Fin to merge the water sampling reports into a chief scientist report
 - CTD casts
 - Water sampling results kept like they are kept in BOG (cruise name, platform, cast number, bottle number, depth) (Told to Eric R for how to name the files). The general item here is naming convention for naming. ODSS team can centralize the naming convention for the purpose of helping the collaborators. John / Reiko to provide naming.

High Priority ODSS Features

1. Sensor data from vehicles overlayed on tracks (sensor tracks) in situational awareness
2. A communication path for operator to notify ESP team when ESP should trigger (ESP may be configured to trigger on data from it's ancillary sensors).
3. Get USC Glider data into ODSS (more on what that means to come: Arvind is POC)
4. Get LRAUV data into ODSS, real-time sensor data in situational awareness, access to LRAUV data pages, access to high resolution LRAUV data (more details to come)
5. Get Yi's ROMS model data into ODSS
6. AIS ship tracks need to be working
7. Shared planning for vehicle operations
8. Some mechanism must be in place to send RC locations as well as Dorado waypoints to the crew on the Carson
9. Integrate Ryan's glider planning service into ODSS.
10. Make sure there are three pathways for AUV data:
 - a. Acoustic model from Dorado->RC->Shore over VSAT/3G (Frederic will write the software for the acoustic link)
 - b. Directly from Dorado->Shore over Iridium
 - c. High Resolution AUV data and processed products (? - maybe over 3G)

ODSS Requirements (1='must' have for spring 2013, 2='should' have for spring 2013, 3='nice' to have for spring 2013)

- Platform Support
 - Rachel Carson

- (1) shared ship/shore data directory (ODSS infrastructure) on the Carson, primarily for transferring 'real time' Dorado data to shore for display on ODSS sensor tracks - part of ESP sampling/threshold scientist in the loop decision making
- (1) position
- (2) ODSS situational awareness on the Carson
- (1) AIS traffic (ship traffic)
 - Southern California
- AIS heat map (arvind)
- WaveGlider
 - (1) position
 - (2) sensor tracks
- USC Gliders (2?) - contact Arvind
- Dorado
 - (1) position
 - (2) sensor tracks (if TREX enabled)
 - (2) gulper positions (if TREX enabled)
- LRAUV-Tethys
 - (1) position
 - (2) sensor tracks
- LRAUV-Daphne
 - (1) position
 - (2) sensor tracks
- ESP Bruce
 - (1) position (as supplied by ESP team / same as 2010)
 - (2) sensor/status
- ESP Mack
 - (1) position (as supplied by ESP team / same as 2010)
 - (2) sensor/status
- Data Layers in ODSS Situational Awareness
 - JPL ROMS for So Cal (Chao)
 - daily model data, netcdf, for validation
 - HF Radar (TBD)
 - Sea Surface Temperature (TBD)
 - (1) Shipping Lanes
 - 'The Plan' - a layer that shows the planned operating area. Does not need to be connected to drawings promoted from the planning perspective or plan vs actual display.
 - CODAR
 - Phytoplankton chlorophyll concentration proxies from ocean color
 - MODIS Aqua Chlorophyll-a <http://oceanwatch.pfeg.noaa.gov/thredds/Satellite/aggregsatMW/chla/catalog.html?dataset=satellite/MW/chla/1day>
 - MODIS Aqua Chlorophyll fluorescence line height (FLH) <http://oceanwatch.pfeg.noaa.gov/thredds/Satellite/aggregsatMW/cflh/catalog.html?dataset=satellite/MW/cflh/1day>
 - SST
 - MODIS Aqua daytime SST <http://oceanwatch.pfeg.noaa.gov/thredds/Satellite/aggregsatMW/sstd/catalog.html?dataset=satellite/MW/sstd/1day>
 - AVHRR daily composite <http://oceanwatch.pfeg.noaa.gov/thredds/Satellite/aggregsatAT/ssta/catalog.html?dataset=satellite/AT/ssta/1day>
 - GOES daily composite <http://oceanwatch.pfeg.noaa.gov/thredds/Satellite/aggregsatGA/ssta/catalog.html?dataset=satellite/GA/ssta/1day>
- Standard Data Products in Data Catalog
 - ROMS SIO Glider - This looks to be a product that will not overlay on a map so it is probably something destined for the Data Catalog that will open with a click of a link.
 - Gulper data and water analysis

[Engineering page for the March 2013 ECOHAB experiment as it pertains to the use of the ODSS during the campaign](#)

Fall 2012 CANON Experiment Sep 10 - Sep 19 2012

[Platform Timeline Sep 2012](#)

Research focus: Nitrogen biogeochemical dynamics along upwelling gradients in the California Current System. Studies in the Coastal Transition Zone.

The Fall experiment will be in-between the inshore region and the California Current jet, the so-called Coastal Transition Zone (CTZ)

[Sept High Level Plan](#)

[Dorado AUV Survey Design for the September 2012 CANON Experiment](#)

[CANON Fall 2012 Experiment: Reconnaissance Planning](#)

[Line 67](#)

[Operational collision avoidance strategy for CANON-2012](#)

[Wester Flyer Cruise plan](#)

[Adding your data as a map overlay in ODSS](#)

List of assets and their dates:

- Deploy Wave Glider Sept 1. Data stream to start Sept 4.
- Deploy LRAUV Tethys Sept 5 6. Recover Sept 26
- Deploy LRAUV Daphne Sept 10. Recover Sept 26.
- Western Flyer Cruise Sept 10, returns Sept 19. CTD casts, water samples. ODSS served locally on board WF, synched with ODSS server on shore
- Zephyr Cruise Sept 10, Return Sept 14.
 - Deploy Dorado daily during Zephyr cruise, with 24 hr. deploy/recover/recharge/redeploy tempo
- Deploy ESP drifter, with Dorado coordinated with ESP drifter as it drifts, see: [Dorado AUV Survey Design for the September 2012 CANON Experiment](#)

[Distributed Deployment Planning](#)

Spring 2012 CANON Experiment May 21 - June 6 2012

[Platform Timeline May 2012](#)

Research focus: Nitrogen biogeochemical dynamics along upwelling gradients in the California Current System. [Spring CANON12 - Studies in the shelf region](#)

The Spring focus is on the upwelling plume, the upwelling shadow in northern Monterey Bay and the front in between them. Figure 7Bio shows the mean sea surface temperature and fluorescence line height (a proxy for chlorophyll) for the May-June period with the proposed locations of AUV, glider and ship tracks.

The list of assets and their dates is given below.

- Deploy Spray, Wave and Webb gliders on May 21 for reconnaissance phase ([see attached document](#) for repeat transects), recover on June 7 or 8
- Deploy LRAUV Daphne May 29 (Tuesday) with Turbulence Sensor for transect along 36.9N. Recover LRAUV Daphne May 31 (Thursday). Deploy LRAUV Tethys May 31.
- Deploy LRAUV Daphne June 4th (Monday). Recover both LRAUVs no later than June 8th.
- Deploy Dorado May, 29, 30, 31, June 1 (three evenings) with LIST and LIST Holo, make transect offshore along 36.9, collect water on the return transect in upwelling plume, front and shadow. Repeat June 5, 6, and maybe 7.
- Deploy R/V Fulmar May 29, 30, 31, and maybe June 1 deploy drifters along 36.9 and collect water on the return transect in upwelling plume, front and shadow. Repeat June 5, 6, 7, and maybe 8. Drifters recovered daily unless clear that they will not exit region rapidly.

This page last changed on Aug 27, 2013 by [mjstanway](#).

Dorado

Gliders

Long-Range AUVs (LRAUVs)

Tethys

Tethys will circle the Northern ESP, then run a lap around a box oriented East-West. The Western edge of the box is currently adaptive at the user level (single command to change the longitude), with plans to make it adapt autonomously by detecting a front using Yanwu's algorithm, as time permits.

Daphne

Daphne will circle a submerged LST, using the Benthos DAT to query an acoustic modem on the LST *roughly once every minute*.

Lagrangian Sediment Traps (LSTs)

- Operating depth *100 m*
- *Two-day* deployments

Attachments

There are currently no attachments on this page.

Data Products Working Group

This page last changed on Jul 08, 2014 by [monique](#).

link to this page: <https://oceana.mbari.org/confluence/display/CDATA/Data+Products+Working+Group>

Fall 2014 experiment

List of products to get ready for Fall

Pre-experiment

What	Who	Status	Details
computation of dye diffusivity from M1 ADCP measurements	Jim & Monique		
lagrangian flots release stats in ROMS @25.5 isodensity, half-way between M1 and C1	Peng & Monique		

During experiment

What	Who	Status	Details
ODSS layers related to patch tracking	Monique		iso-density depth, rhodamine concentration, depth of rhodamine max, rhodamine vertical extent (eg. based on percentage of max value)
ODSS in situ layers	Monique		
prediction of future assets positions based on persistence			
ODSS ROMS layers	Danelle		

April 2014 experiment

Detailed products & locations

OK = (mostly) implemented

in process = being implemented

to do = will be implemented

not needed = available but not needed for this specific experiment

ODSS layers

What	Who	Status	Details
platforms tracking	Kevin	OK	add "real" positions
satellite coastwatch products	Danelle	OK	Chl, SST, etc
ROMS 3km nowcast physics ("das")	Danelle	not needed	latest available map, region 123.8 - 121.2°W, 35.8 - 37.8°N: temperature & salinity (surface), currents @surface and @100m displayed as arrows
ROMS 3km nowcast bio ("bio")	Danelle	not needed	latest available map, same region: s2, z2 & no3 @surface, nh4 @50m
ROMS 3km forecast physics	Danelle	not needed	at T0+24h, T0+48h and T0+72h, same region: temperature & salinity (surface), currents @surface and @100m displayed as arrows. Full time series displayed as animated gifs?
HF radar nowcast surface currents (UCSD 2km)	Danelle	to check	latest available map, displayed as arrows (OMA is Monterey Bay and not needed)
surface currents prediction (Sergey's algorithm)	Jordan	MB only	
M1 surface & 100m currents	Danelle	MB only	displayed as arrows
latest fronts positions from autonomous platforms	Yanwu	not needed	send (time, latitude, longitude) to driftertrack@mbari.org
underway & waveglider surface data	Monique	not needed	updated every hour, data in the first 2m, last 24h

Other standard products

What	Who	Status	Location	Details
gliders sections	Monique	not needed		

AUV sections	Monique	not needed		
underway maps	Monique	not needed		
CTD profiles	Monique	not needed		
ESP CTD time series	Kevin	OK	ESP web	

September 2013 experiment

LINKS TO PLOTS: [click here](#)

1. Data sources

Asset	Task	T	S	O2	fluo	bsc	pH	pCO2	data location
wgOA	line mid-bay	X	X	X			X	X	FTP Fred
wgTex	north bay	X	X		X	X			FTP Fred (O2 missing)
spray L66	line 67	X	X		X				CenCOOS thredds
spray G29	box	X	X		X				CenCOOS thredds
spray G34	box	X	X		X				CenCOOS thredds
webb 260	line south bay	X	X	X	X				FTP Fred, O2 & fluo missing
webb 294	line mid-bay inshore	X	X	X	X	X			FTP Fred
nemesis	line mid-bay offshore	X	X						FTP Fred
drifters 2*	drift	X					X		Tracking
tethys	box ESP & 36.9°N	X			X				
daphne	LST tracking								

dorado	line MARS to ESP	X	X	X	X	X			
---------------	------------------------	---	---	---	---	---	--	--	--

Ships: CTD, underway, ADCP?
moorings & ESPs (oceanic / atmospheric data) + ESP molecular data
LST (sensors: CTD), drifters
satellite data
ROMS model outputs nowcast & forecast, lagrangian particles
HR radar & surface currents prediction

2. Tasks and products

Task	Dedicated data products
1. State of the bay	• ODSS layers: satellite data ("best of the day"?), ROMS outputs & forecasts, surface currents data (HF radar) & prediction (Jordan) • Data Analysis tab: moorings data, links to outside data & products • "regular" data products: possibly underway data, AUVs vertical sections, CTD profiles • daily reports of ocean & atmospheric conditions? • data/model comparisons?
2. ESP adaptive sampling	• ESP web • backtrack from HF radar (Jordan) -> source waters • backward particles in ROMS • other products? needs a dedicated discussion
3. LSTs tracking	• LST position sent by Daphne every ~1h • projection of future LST position? • averaged profiles (T, S, Chl, NO3) sent by Daphne every ~1h • currents @100m: M1, ROMS nowcast & forecast, as inferred from LST position
4. Front tracking	• front detection from Tethys, Dorado & gliders (Yanwu), display the resulting locations on ODSS • prediction of future location based on surface currents prediction?

3. Detailed products & locations

OK = (mostly) implemented
in process = being implemented
to do = will be implemented
TBD = need to decide if it will be implemented

3.1 STOQS

All data in one place (except for gridded products such as satellite/ROMS), good for data exploration.

Possible features to add:

- URL sharing (available on kraken)
- caching queries for faster processing

- data selection from the map

3.2 ODSS layers

What	Task	Who	Status	Details
platforms tracking	1	Kevin	OK	add "real" positions
satellite coastwatch products	1	Danelle	OK	Chl, SST, etc
new ocean color product (developed by Raphe Kudela)	1	John	to do	
"best of the day" for satellite Chl/ SST images?	1	John	TBD	
ROMS 3km nowcast physics ("das")	1	Danelle	OK	latest available map, region 123.8 - 121.2°W, 35.8 - 37.8°N: temperature & salinity (surface), currents @surface and @100m displayed as arrows
ROMS 3km nowcast bio ("bio")	1		OK	latest available map, same region: s2, z2 & no3 @surface, nh4 @50m
ROMS 3km forecast physics	1	Danelle	OK	at T0+24h, T0+48h and T0+72h, same region: temperature & salinity (surface), currents @surface and @100m displayed as arrows. Full time series displayed as animated gifs?
HF radar nowcast surface currents (CenCOOS OMA and UCSD 2km)	1	Danelle	OK	latest available map, displayed as arrows
surface currents prediction (Sergey's algorithm)	1	Jordan	OK	

M1 surface & 100m currents	3	Danelle	OK	displayed as arrows
LST-inferred 100m currents	3	?	TBD	displayed as arrows (McCann suggests talking to Danelle)
latest fronts positions from autonomous platforms	4	Yanwu	OK	send (time, latitude, longitude) to driftertrack@mbari.org (see below)
underway & waveglider surface data	1	Monique	OK	updated every hour, data in the first 2m, last 24h

For simple position data, Mike McCann suggests using the existing drifter track interface – simply send emails like below.

to: driftertrack@mbari.org
subject: platformName,esecs,lon,lat

where platformName is 10 characters or less, esecs is Unix epoch seconds, and lon & lat are in decimal degrees.

3.3 Other standard products

What	Task	Who	Status	Location	Details
gliders box	1	Monique	OK	plots	
glider L67	1	Monique	OK	plots	
wavegliders	1	Monique	OK	plots	one map per day
webb gliders	1	Monique	OK	plots	
AUV sections	1	Monique	TBD		need for more than automatic plots? pattern? variables? use for 3D plots? function of space or time? automated through STOQS?
underway maps	1	Monique	OK	plots	
CTD profiles	1	Monique	OK	plots	
pump profiles?	1	Monique	TBD		feasible? useful?
averaged Daphne CTD	3	Monique?	to do		T, S, Chl, NO3 / see what Daphne

profile around LST					will send back exactly?
ESP CTD time series	2	Kevin	OK	ESP web	
ESP molecular data?	2		TBD		
ROMS/data comparisons?	1	Monique	on hold		still trying to locate old AOSN code
daily ROMS lagrangian exp forward	1 & 3	Monique	OK	movies	surface & 100m, run by Peng @UMaine
daily ROMS lagrangian exp backward	2	Monique	OK	movies	from ESP positions, run by Peng @UMaine
backtrack from ESP position based on HF radar?	2	Jordan	TBD		
projection future LST positions?	3		TBD		
daily reports of ocean/ atmospheric conditions?	1	John	TBD		format?
Misc infos	1	all	TBD		eg. human observations on weather or wildlife, qualitative observations from samples, etc

3.4 "Data analysis" tab

- mooring plots
- links to particles trajectories from HF radar, glider visualization, interactive ROMS visualization, COAMPS wind forecasts, NWS weather forecast, etc.

Comments?

Samples Working Group

This page last changed on Sep 13, 2013 by peti.

link to this page: <https://oceana.mbari.org/confluence/display/CDATA/Samples+Working+Group>

Routine/default/evolving sample lists and sampler water budgets

(Pennington; 9/5/2013)

0. Notes:

- Chavez in situ PP array water needs uncertain
- Distribution of Niskins by depth flexible
 - Routine BOG depths are 0, 0, 5, 10, 20, 30, 40, 60, 80, 100, 150, 200m
- LST fixatives an issue?
- Kudela personnel — 3 on RC on 16Sep: Nilo Alvarado, Lisa Z., Kendra. After that, one person.
 - Lisa Zicarelli on WF.
- Little info MBARI_Jason
- No info addl Pis collabs
- No info TriplePoint
- Week1 is Sep16-19, 4 RC day cruises, overlaps Sep 19 with WF below
- Week2 is Sep19-26, WF 8d overnight cruise, overlaps Sep 19 with RC above
- Week3 is Sep30-Oct3, 4 RC day cruises
- L67/Worden Flyer cruise, 11d Oct7-17, not CANON

1. Rosettes with 10L Niskins (RC wks 1,3 and WF wk 2)

Depths	Vol (L)	Sample	Owner
Profile	0.15	Macronuts incl NH4	Chavez
Profile	0.6	Chl incl frags	Chavez
Profile	0.6	POC	Chavez
Profile	0	FCM	Chavez
Profile	2.5	PP array	Chavez
0m	0.6	HPLC	Chavez
0m	0.6	A*	Chavez
0m, DCM	0.25	QPyto counts	Chavez
	above per disc w/ Fr/ Jason 9/13/13		

Profile	0.02	Urea	Kudela
Profile	0.25	Toxins (domoic on ms)	Kudela
Profile	0.1	phyto counts	Kudela

0m, DCM, 60m	3	Search for cryptic Pn	Bowers
	per disc Bowers 9/13/13		

DCM	100L	Growouts, Mondays from ESPN	Kudela
	per phone 9/6/13	Multida incubs ashore Kudela 15N, 14C, 13C, etc Kudela MZPGrazing? Kudela	

2. Mini-rosette with 2L Niskins (Martin)

Depths	Vol (L)	Sample	Owner
?	0.15	Macronuts incl NH4	MLML_Smith
?	0.6	Chl incl fracs	MLML_Smith
?	0.25	QPhyto counts	MLML_Smith
?	?	DA quant	MLML_Smith
?	?	DNA phyto i.d.	MLML_Smith
?	?	CDOM	MLML_Smith
?	?	Pn cell isolations	MLML_Smith

3. LSTs

(1 LST per deployment, 7-2d deployments, 8 cups per deployment total,
4 replicate cups each 24hr, samples fixed and allocated as below)

Funnel/Cup#	Depth	Fixative	Sample	Owner
1A+B	100m	3% formalin	POC, PON	KSmith
2A+B	100m	3% formalin	?	Jason Smith
3A+B	100m	Brine	Benthic DA	Kudela
4A+B	100m	RNA-later	Genetics	Elif
	per Crissy email 9/10/13; brine per Fr 9/12/13			

4. Gulpers on Dorado; 10, 2L Gulpers (?Carson; Wks 1,2,3?)

Gulps	Depths	Vol (1.8L/G)	Sample	Owner
10-1	All	1.2	Omics, culture, enumeration	MBARI
		0.3	Chl, toxin	UCSC
		0.01	Excitation emission spectrum	MLML
			per email 9/5/13 Bowers	

5. ESPs, Nbay and Sbay

21 sampling 'phases'/depl (not sure who deploys or when or duration)

In SouthernCal did one sample per 3d, plus event-triggered sampling

Samples	Depths	Vol (L)	Sample	Owner
1-21	?	?	HAB array	Elif/Bowers
			DA array	Elif/Bowers

6. Pumped vertical profiles

Carson+Flyer

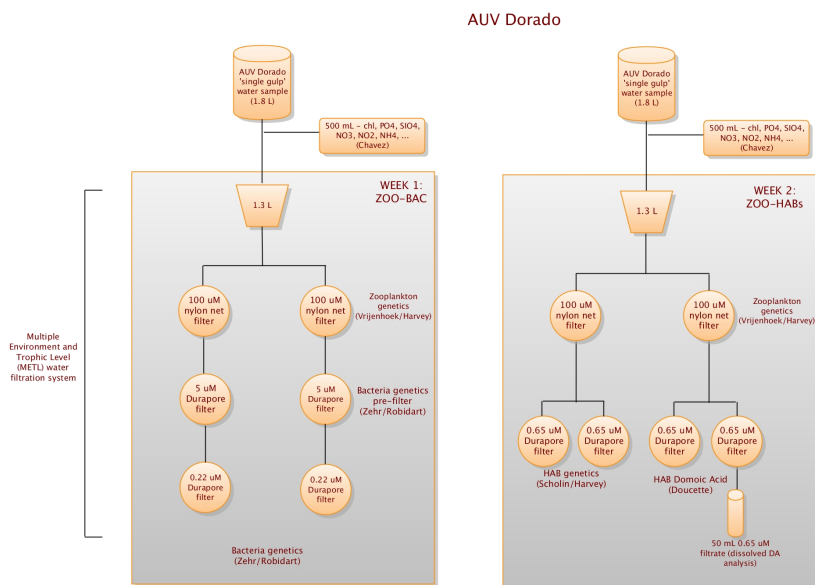
Depths	Vol (L)	Sample	Owner
?	?	NH4 system	Junior_Smith
?	?	Sandwich Hybrid for Pn	?Scholin lab
?	?	FRRF system	Chavez
?	?	nut system	Chavez
?	?	pCO2 system	Chavez
?	?	TCO2 ?system	Chavez
?	?	pH system	Chavez
		?any	Kudela?

ODSS Water Management

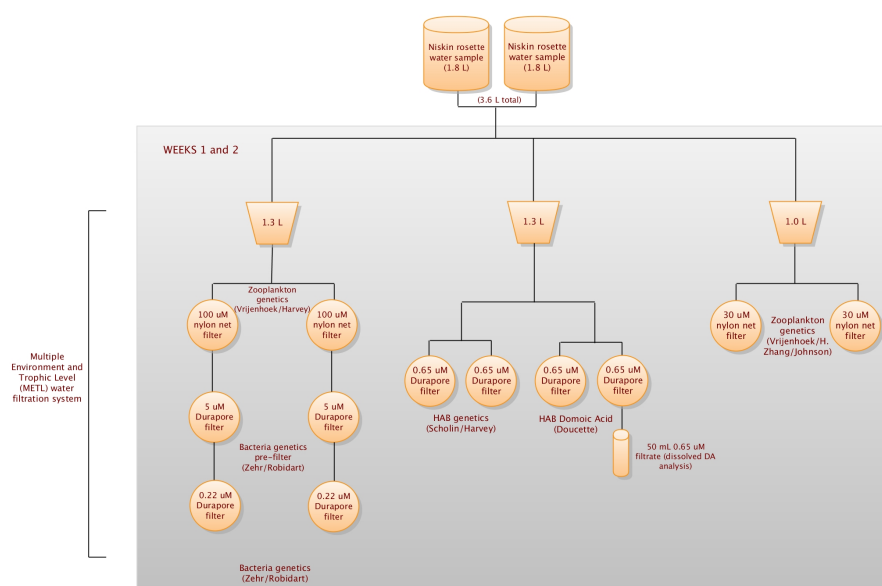
This page last changed on Jul 05, 2012 by [kgomes](#).

1. Water Sample Diagrams
 - a. [2010 October BloomEx](#)
 - b. [2011 Spring CANON](#)
 - c. [2011 Fall CANON](#)
 - d. [2012 Spring](#)
2. Water Sample Spreadsheets   Please treat unpublished data accordingly  
 - a. [2009 Dorado Samples \(XLS\)](#)
 - b. [2010 Dorado Samples \(XLS\)](#)
 - c. [2011 Dorado Samples \(XLS\)](#)

2012 Spring CANON water sample processing



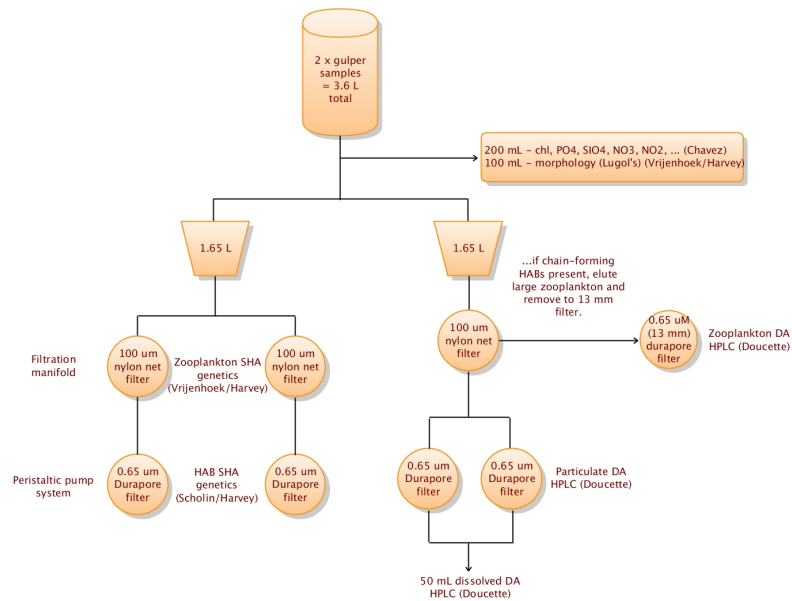
R/V Fulmar



2011 September CANON water sample processing

(samples collected by AUV Dorado and R/V Martin)

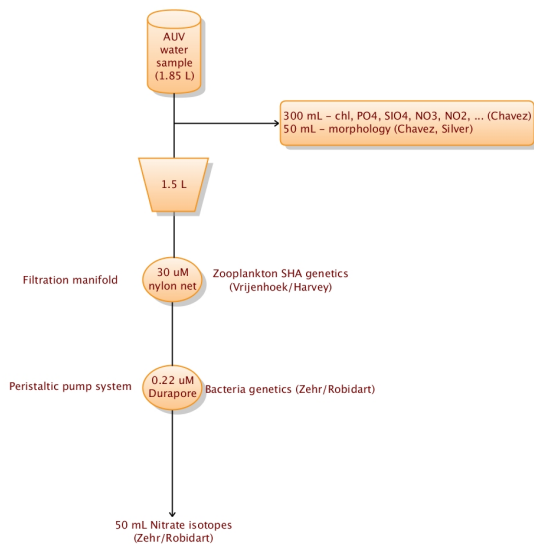
Question: Can we track trophic transfer using the HAB toxin domoic acid (DA) as a natural marker?



2011 Spring-Summer CANON water sample processing

(samples collected by AUV Dorado)

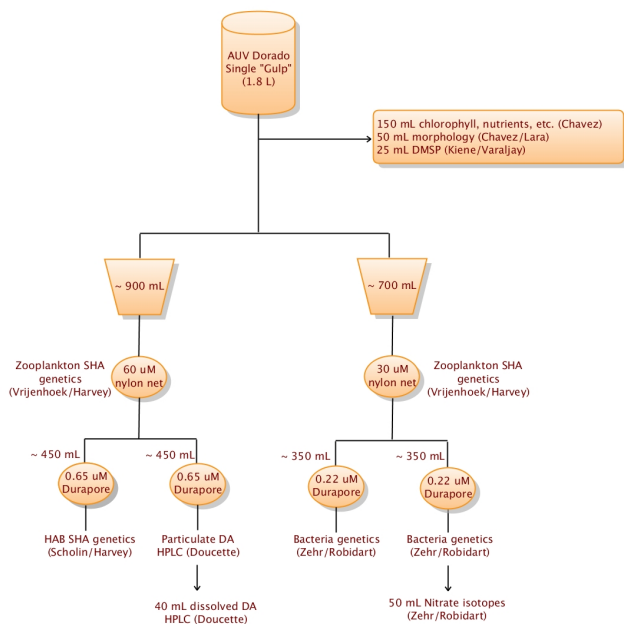
Question: How does diversity vary with environment over space and time?



2010 October BloomEx / BIOSPACE water sample processing

(samples collected by AUV Dorado)

Question: Can we track a phytoplankton bloom in its Lagrangian frame of reference and assess plankton variation over time, at multiple trophic levels?



.bookmarks

This page last changed on Aug 10, 2011 by .



CANON Data Bookmarks

This page is a container for all the bookmarks in this space. Do not delete or move it or you will lose all your bookmarks.

[Bookmarks in CANON Data](#) | [Links for CANON Data](#)



Bookmarks

There are no bookmarks to display.