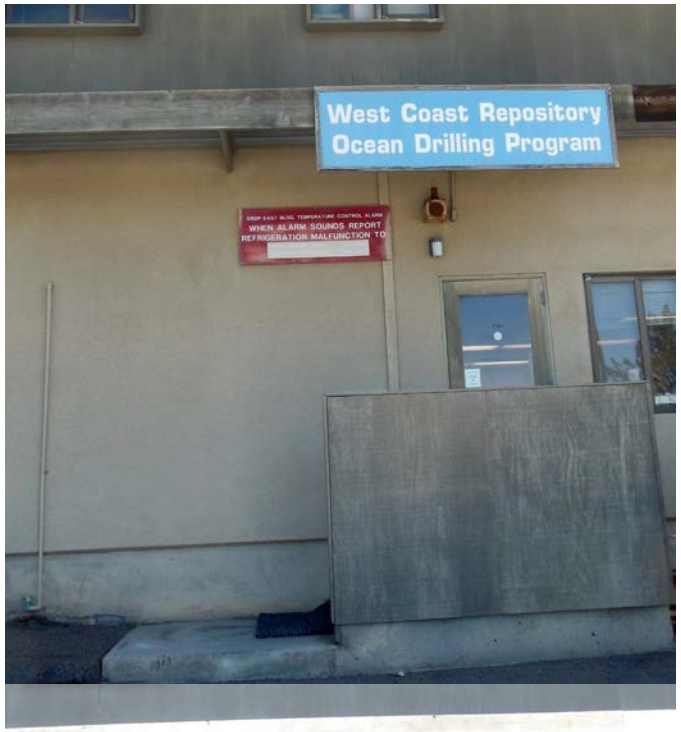
2017 Meeting of the Curators of Marine, Lacustrine, and Geological Samples

Alex Hangsterfer – April 25, 2017

New Sign…Finally!!



Generator Project

Before

After

Dry Storage-On Campus

Before

After

Dry Storage-On Campus

Before

After

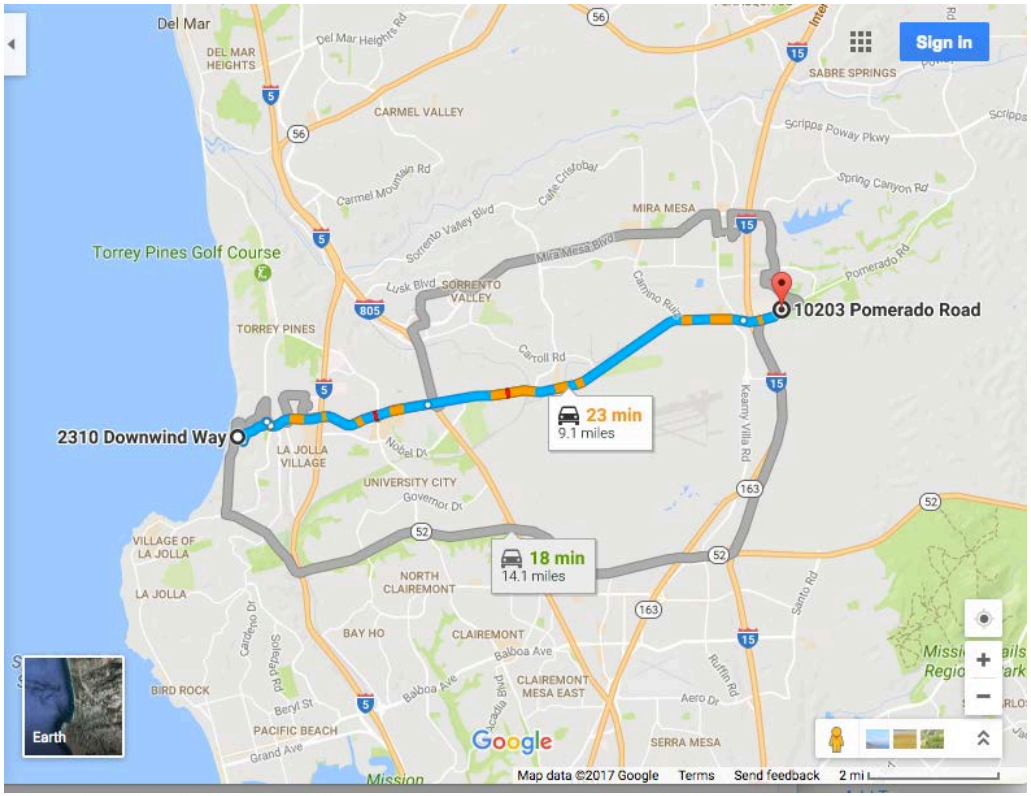
Compact Shelving

Library Improvements

Annika Sanfilippo
Radiolarian and
Reprint Collection

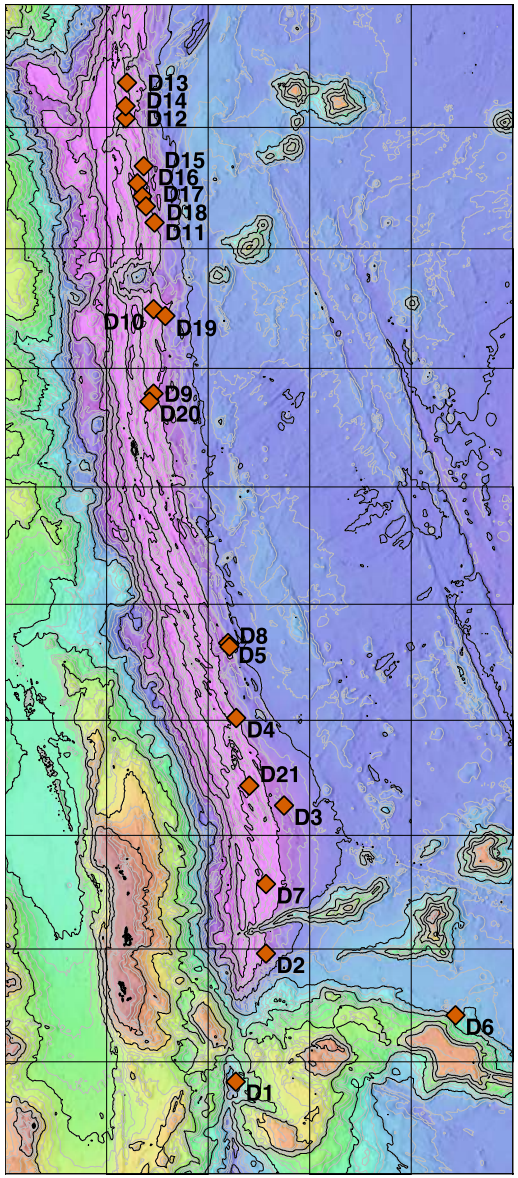
North reefer

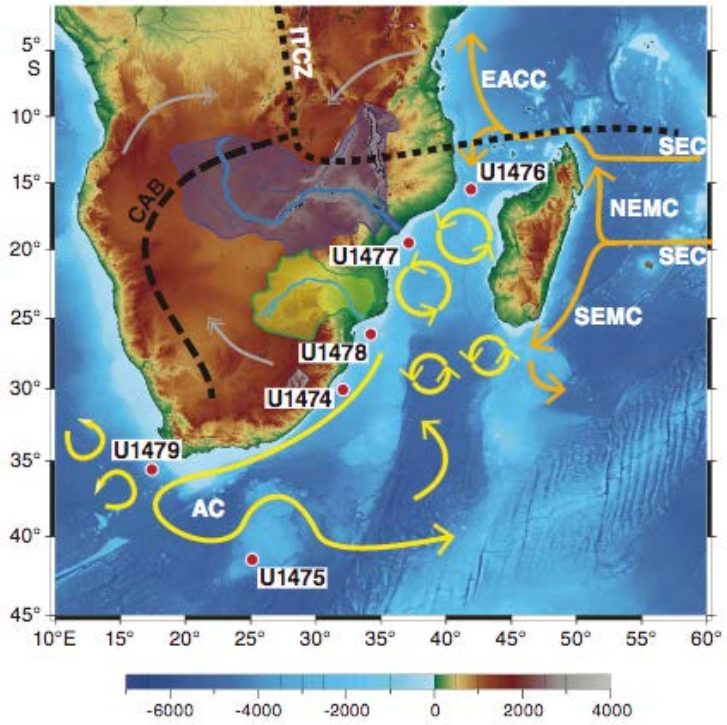
Meanwhile, off campus at the rock building...




GEOLOGICAL COLLECTIONS
SCRIPPS INSTITUTION OF OCEANOGRAPHY

- Core and dredge acquisitions - XRF scanning - MRI





3rd time's a charm?

-Outreach efforts – Birch Aquarium exhibit

SIO Outreach Townhall:

”Five years from now what are elemens of vibrant outreach at Scripps?”

Outcome:

-Professional development in outreach for scientists
-Infrastructure for outreach
-Institution-wide coordination of outreach
-Portfolio of high impact outreach events

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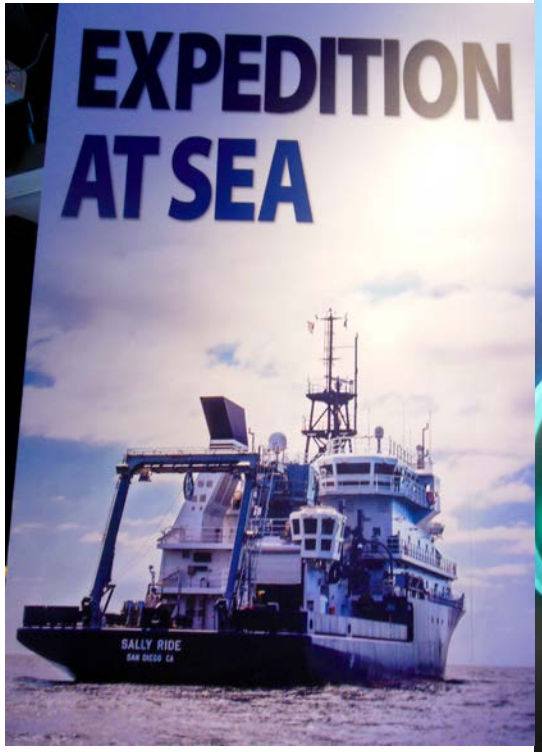
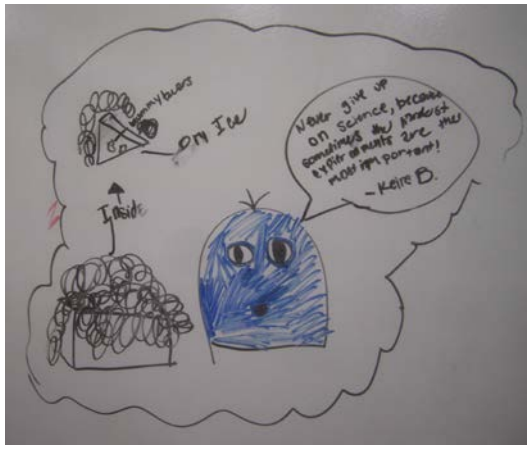


-Sally Ride Science – GEOPATHS proposal



Digitization efforts

DIGITAL COLLECTIONS

iSamples

Specify
Software Project

iDigBio
Integrated Digitized Biocollections

SCRIPPS INSTITUTION OF OCEANOGRAPHY

-PHOIBOS2 – Sample & Expedition Birth Certificate

Identified Problem

1. a lack of a standardized identifier system for expeditions (which are responsible for a large proportion of sampling events).
2. a lack of interoperable identifiers, hindering discovery of the relationships among physical samples and collection event metadata. In scope are fluid, soil, rock, biological samples--essentially anything that has matter. Every sample deserves an identifier, regardless of its ultimate disposition. Sample are typically mixed types, and so ideally can preserve those relationships through linked data.
3. uncertainty about who has the ultimate authority to create ids for key entities.

Intended Outcomes

1. Create a 'birth certificate' template for expeditions and links to other expeditions and samples. This will provide a minimum level of metadata that should be associated with any expedition, including: identifier, name, platform, registrant, participant, organization, temporal extent (start date), temporal extent (end date), geographic extent
2. Create a 'birth certificate' template for samples and links to expedition and other samples. This will provide a minimum level of metadata that should be associated with any sample, including material type, collector(s), and links to the related expedition where relevant.

**Adapted from Reyna Jenkyns (Ocean Networks Canada) ODIP II 2016 Workshop*

-PHOIBOS2 – Sample & Expedition Birth Certificate

Field Name	*Vocabulary*	Definition	Required	Repeatable
identifier	*identifierType*	the formal identifier, including its scheme (IGSN)	yes	no
name	(free text)	title -becomes part of the formal citation	yes	no
alternateidentifier	(free text)	other (duplicate) formal IDs published elsewhere for the same sample		yes
parentidentifier	*identifierType*	ID of my parent ie. larger sample from which I am derived		no
collectionidentifier	*collectionType*	ID of a group of related samples to which I belong		yes
relatedidentifier	*relationType*	IDs of other things (documents, expeditions, etc) to which I am related		yes
description	(free text)	abstract -more detailed than the name		no
registrant	*identifierType*	agent (person or organization) that created this identifier	yes	no
collector	*identifierType*	agent (person or organization) that collected me in the field		yes
contributors	*identifierType, contributorType*	any other agent (person or organization) related to me ie. funding agency		yes
geoLocations	*geometryType, sridType, featureType*	can be a geometry (point, line, polygon, etc) and/or a toponym (named place, typically from a gazetteer) that specifies my 2-D location on the earth		yes
verticalExtent	*datumType*	my vertical coordinate(s) -could be absolute (datum +elevation) or relative (depth in a core; location in sample)		
resourceType	*resourceType*	(IGSN can be used for a Sample, Feature, or Collection)	yes	yes
materialType	*materialType*	1 required broad classification (rock, sediment, fluid, organism, tissue, etc, from ODM2), plus optional disciplinary classifications for taxonomic name, rock type, etc.	yes	yes
collectionMethod	*methodType*	1 required broad classification (core, dredge, net, etc, from ODM2), plus optional disciplinary classifications		yes
collectionTime		time of collection -when I was removed from the natural environment		no
sampleAccess	*accessType*	(Public, Private)	yes	no
supplement	(url)	link to additional detailed/disciplinary metadata		yes

NOTE: Our scope is physical objects removed from the natural environment. (Not synthetic samples created in the laboratory, and not observations/analyses made on samples.)

Thank you!