telescience update

Shinji Shimojo Fang-Pang Lin

update

- education
 - prime 2010
- e-culture
 - Osaka Knowledge Capital City exhibition
 - Nara 1300th anniversary exhibition
- urban monitoring
- GLEON/CREON
- Joint working group between Telescience & Geoscience.

Breakup

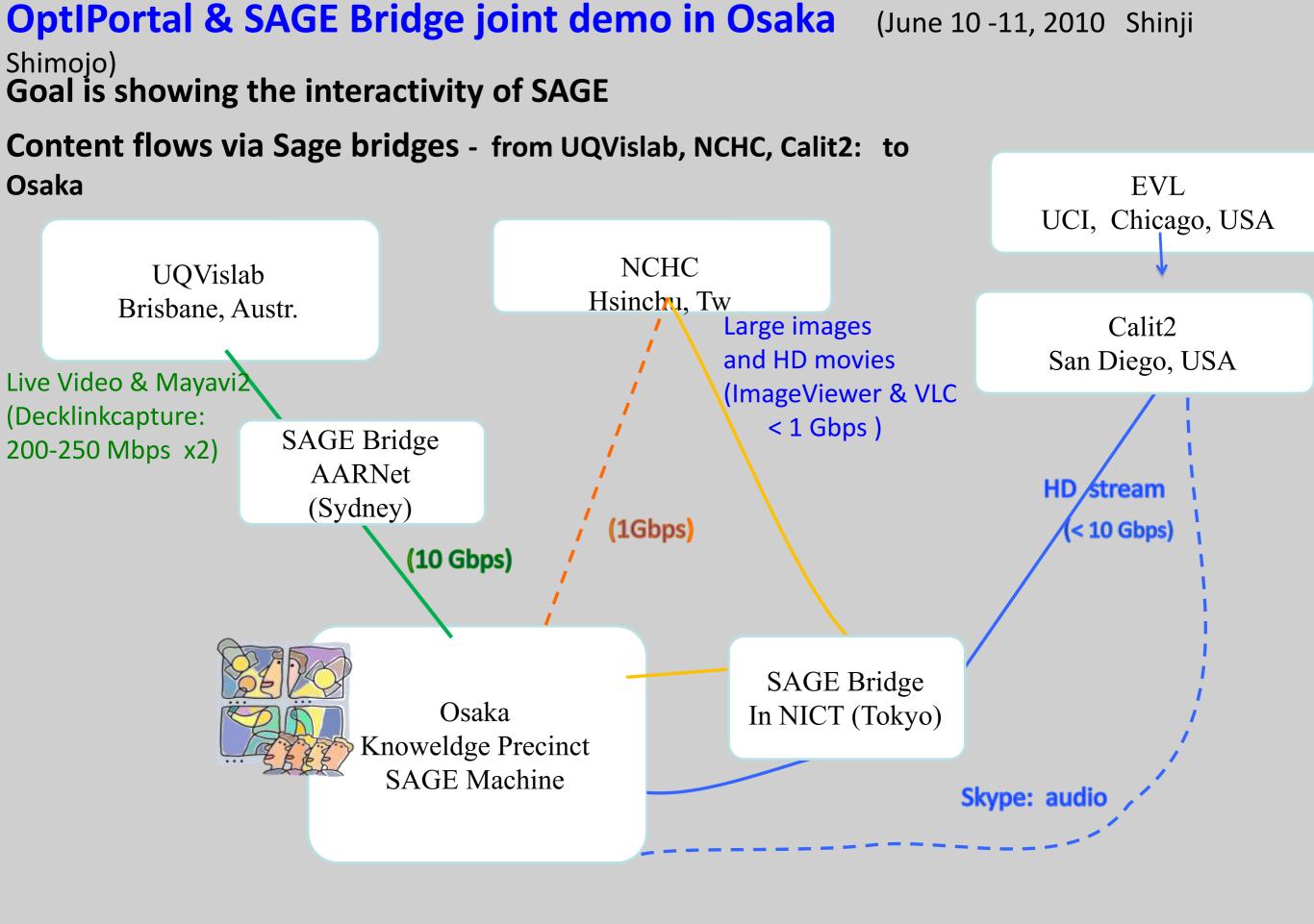
1.KLEON











slide provided by Bernard Pailthorpe

NARA 1300th Anniversary



Prime 2010 in Japan Lex Lucson, "Interactivity with 3D Models" Velu Ganapathy, "Visualization of Cultural Heritage"

Kevin Nguyen, "Interaction with Cultural Heritage using FTIR touch table"



GLEON/CREON Update

- KLEON formed May, in Soyang, Korea
- GLEON 10, May in Torres
- GLEON SC Strategy Meeting, August in Sunapee
- GLEON 11, Oct in Nanjin.
- CREON 6, August in Lanyu
- CREON Tech Meeting Meeting, Dec in Brisban
- CREON 7, Mar (2011) in Moorea (avoid pragma HK)
- CREON 8, Jan (2012) in Phuket

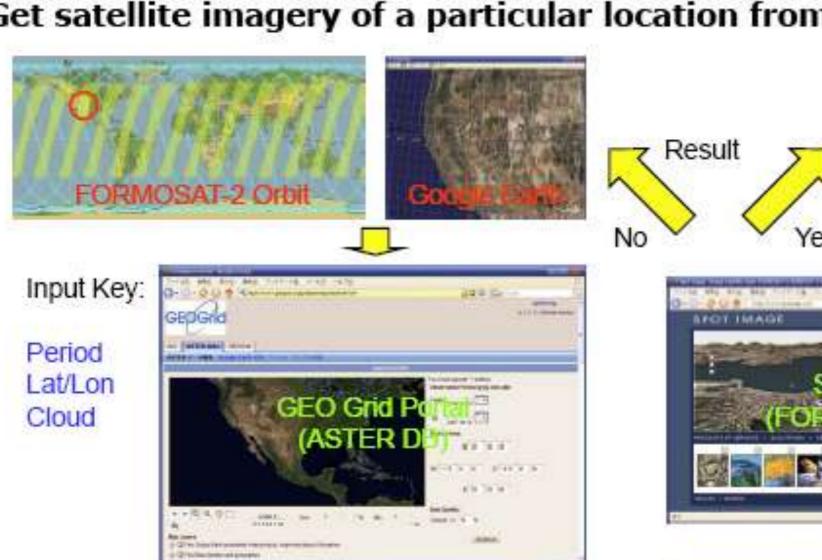
GLEON 10 & SC Strategy Meeting

- AIST Geo-portal used by Lake Scientists
- "NSF CDI Type II: New Knowledge from GLEON"
 - Data Center migrate to NCHC for Operational issues
 - UCSD may introduce new Architecture for limnological simulation.
- Leverage science & policy engagement for future development.



ASTER - FORMOSAT-2 Integrated Data Search

Get satellite imagery of a particular location from federated databases





Date







Input Key

Period Lat/Lon Cloud etc





CREON 6 (Global Coral Reef Environmental Observatory Network), 6-10, Sep 2010 @ Lanyu and Kenting.

- MCR, GBR, KT/LY, RACHA (35 people participated)
- Expanding the sites for new understanding
- New Proposal for working together on new site Racha Island,
 Thailand.
- Common CTD & Video streaming first.
- Dec, 2010/2011 in Melborne (tech), March 2011 in Moorea and Jan, Jan 2012 in Racha island.



Site Location





Racha Island, Thailand is located at latitude 7.61528 N and longitude 98.37125 E.



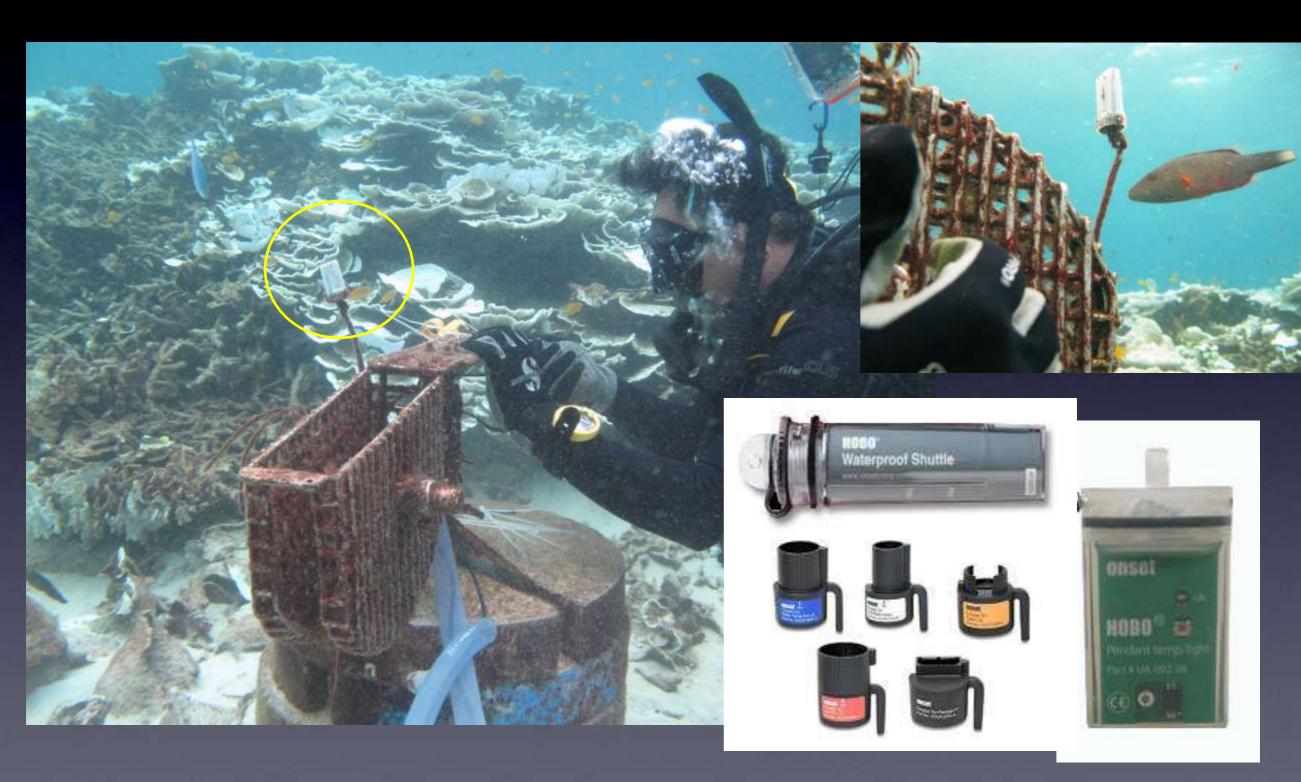


Racha Island's coral diversity Coral Reef Environmental Observatory Network



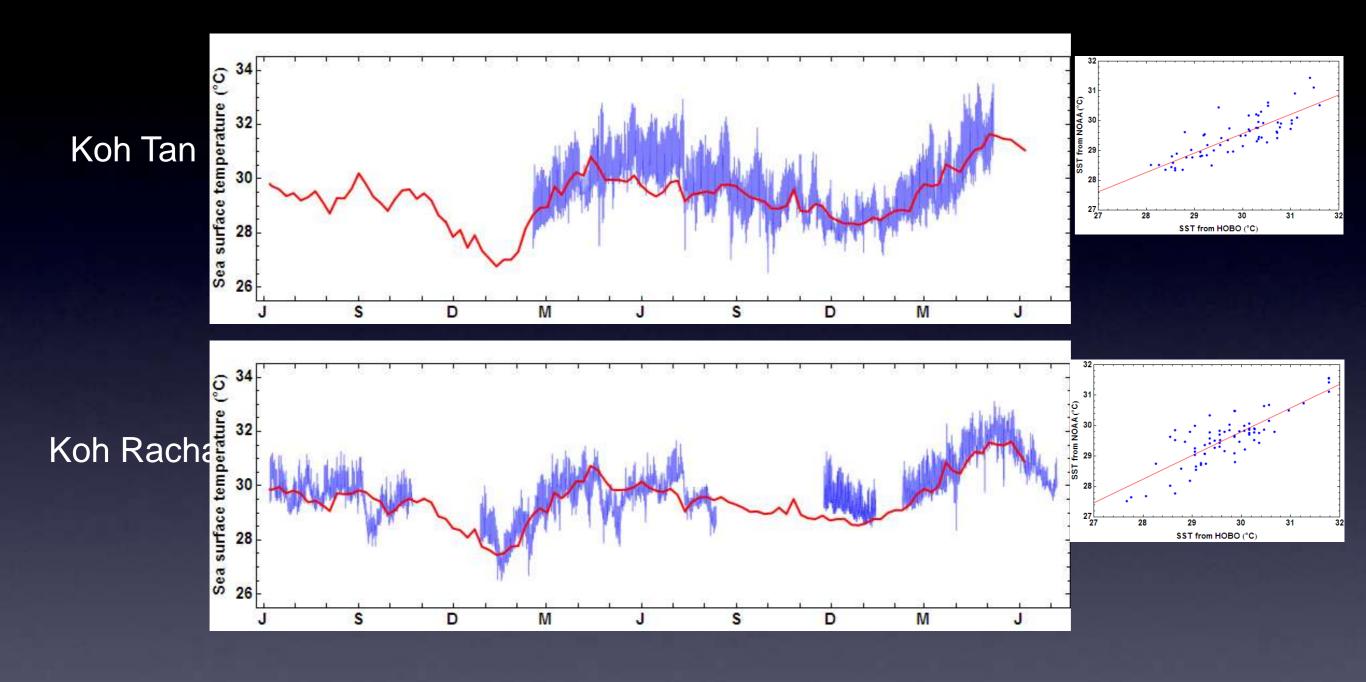


Deploying Temperature Sensor



Comparison between sensor data and NOAA data





SST from HOBO (blue line) and NOAA (red line): Tan Island in the Gulf of Thailand (16 Feb 2009-7 May 2010) and Racha Island in the Andaman Sea (7 June 2008-7 July 2010),

Additions to Existing Sensor Network

New Streaming Data Sensor Platform



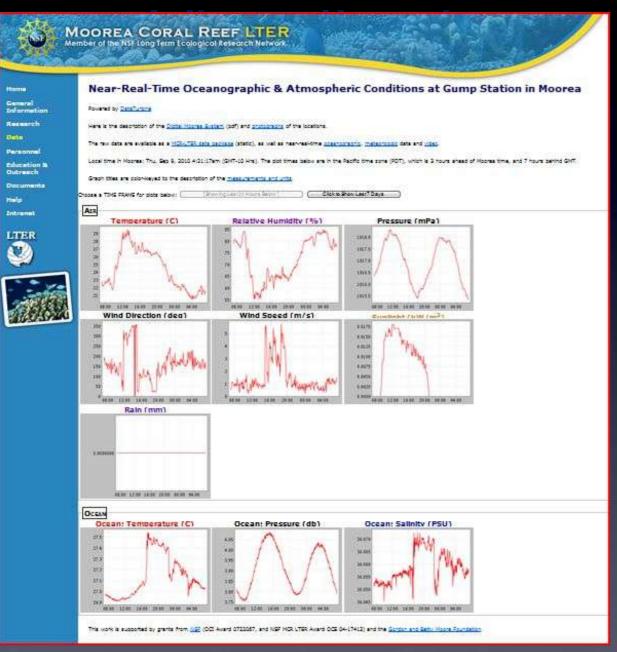
Broadcasting
Oceanographic
Buoy

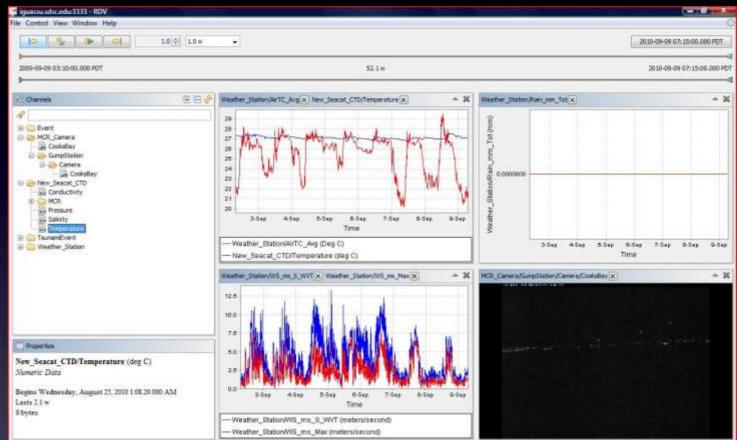
Utilizes Seabird
Inductive Modem
Technology
Communication via
802.11G wireless

Sensor Suite includes:

CTDs (2) – SBE37IM
Thermistors (5) –
SBE39IM
Wave/Tide – SBE26+IM
ADCP – RDI w/Nemo

Additions to Existing Sensor Data Network





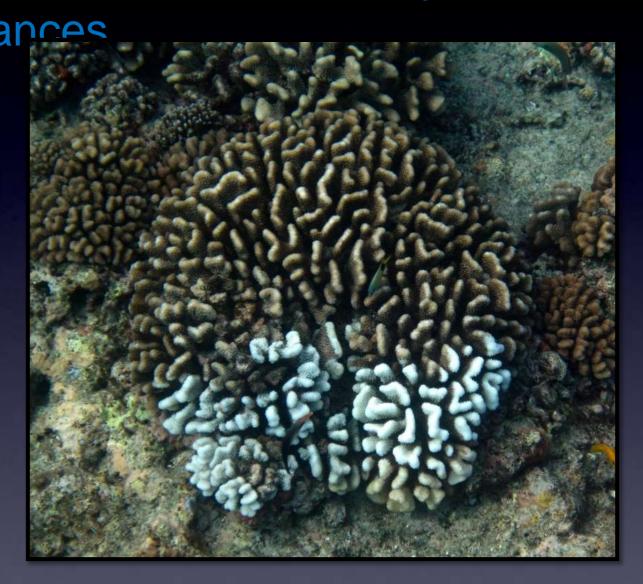
DataTurbine Real-Time Data Viewer

MCR LTER
Website
Moorea Coral Reef
LTER

MCR LTER Site Science

Resilience in a coral reef ecosystem: Initiation of a longterm experiment to examine the effects of multiple

disturbances



Beginning in 2006, Moorea has experienced a large scale outbreak of the Crown-of-Thorns seastars (*Acanthaster planci*)

Moorea Coral Reef

New Observatory in Lanyu

TORI/NCHC



Depth (11m)Resolution (752x582)

水下攝影機

