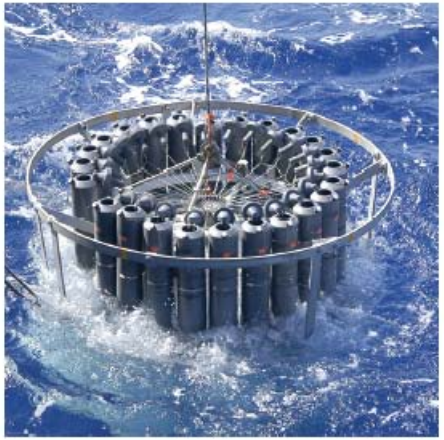
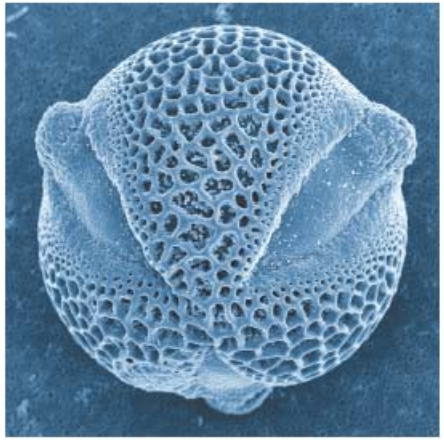
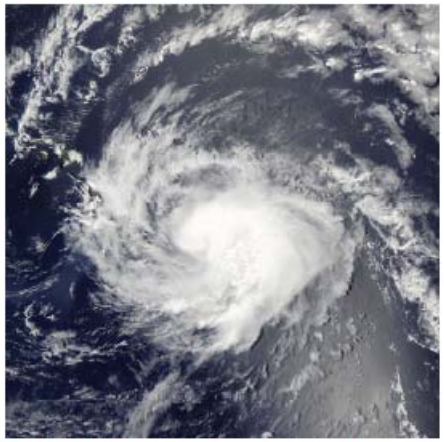
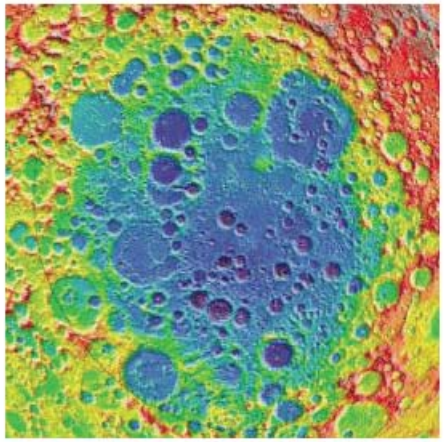








Dean's Meeting with SOEST Faculty 5/13/16

PACIFIC BIOSCIENCES RESEARCH CENTER • PBRC •

WE ARE SOEST

The **SOEST Maile Mentoring Bridge** fulfills a broad desire to inspire Native Hawaiians, kama'āina, and individuals of other underrepresented ethnicities into ocean, earth and environmental science professions. Like the many varieties of the maile plant, this program creates unique mentoring relationships that offer support, encouragement, and the sharing of knowledge. The program weaves individual student goals with their personal and cultural experiences. Learn more at **www.soest.hawaii.edu/maile/**

Tati Oje

- Mechanical Engineering Major
- Global AIS on the Space Station (GLASS) Fellow
- Peter J. Rappa Sustainable Coastal Development Internship, UH Sea Grant

Jennifer Wong-Ala

- Global Environmental Science Major
- Earnest F. Hollings Scholarship, NOAA

Aka Beebe

- Global Environmental Science Major
- Hau'oli Mau Loa Graduate Fellowship
- Admitted to MS in Oceanography, UH Mānoa

Haunani Kane (mentor)

- PhD candidate, Geology & Geophysics
- Apprentice Navigator & Science Coordinator, Hōkūle'a

Shimi Rii (mentor)

- PhD candidate, Oceanography
- Denise B. Evan Research Fellowship in Oceanography
- Jobs Career Columnist and blog writer, *Nature Magazine*

Tiffany Anderson (mentor)

- PhD, Geology from UH Mānoa
- Post-doctoral researcher in Coastal Geology, Geology

Lani Kito-Ho

- Global Environmental Science Major
- Summer internship, Native American and Pacific Islander Research Experience (NAPIRE)

Melanie Keli'ipule'ole

- Global Environmental Science Major
- Poster award, Society for the Advancement of Chicanos and Native American in Science (SACNAS) National Conference
- 1st Place Poster in Genetics, AAAS Conference

Lhib Pagaduan

- Geology and Geophysics Major
- First generation college student

Diamond Tachera

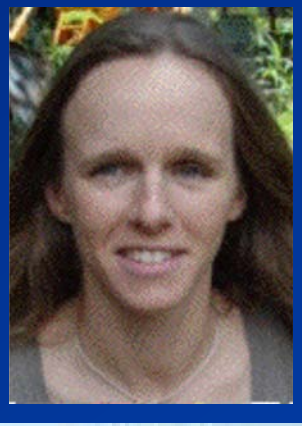
- Geology and Geophysics Major
- Intern, USGS Pacific Island Water Science Center
- Summer Intern, CCOM-University of New Hampshire

SCHOOL OF OCEAN AND EARTH SCIENCE AND TECHNOLOGY
UNIVERSITY OF HAWAI'I AT MĀNOA

The University of Hawai'i is an equal opportunity, affirmative action institution.

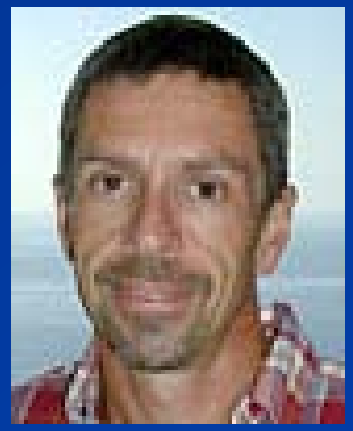
New SOEST Leadership

- Margo Edwards HIGP
- Ruth Gates HIMB



- Margaret McFall Ngai PBRC
- Eva-Marie Nosal ORE

- Steve Businger ATM
- Frank Sansone OCE
- Teresa Medeiros Fiscal



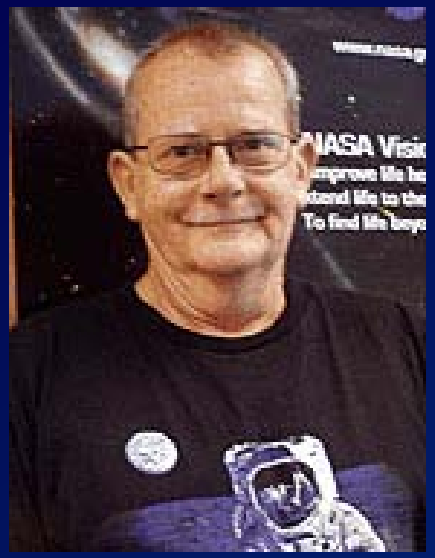
New TT Faculty 2014-2016

G&G: Bridget Konter
Jasper Konter
OCE: Ed DeLong & T
Michael Guidry
Olivier Rouxel
HNEI: Jay Griffin
HIGP: Hope Ishii
Bin Chen
Rhett Butler & T
ORE: Zhenhua Huang
PBRC: Joanne Yew
Ned Ruby & T
Margaret McFall Ngai & T

2016 Promotion & Tenure

positive recommendations

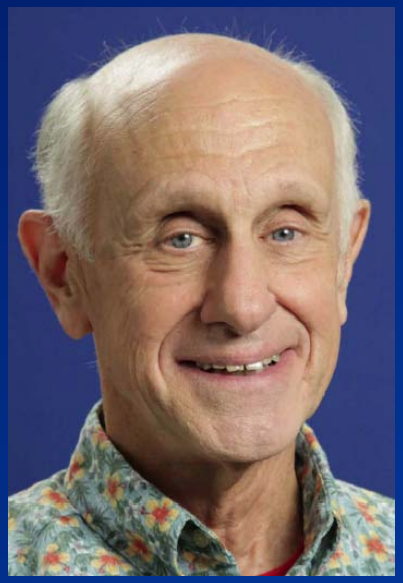
G&G: Janet Becker I5
Bridget Konter I4 & T
Jasper Konter I4 & T
Eric Hellebrand S5 & T
OCE: Matthew Church I5
HNEI: Michael Cooney R5
HIMB: Michael Rappe R5
HIGP: Robert Wright R5
Jeff Gillis-Davis T
Przemyslaw Dera R5 & T
SeaGr: Bradley Romine A4
Matthew Gonser A3

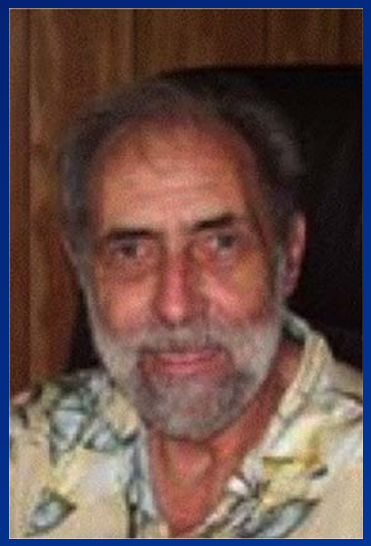


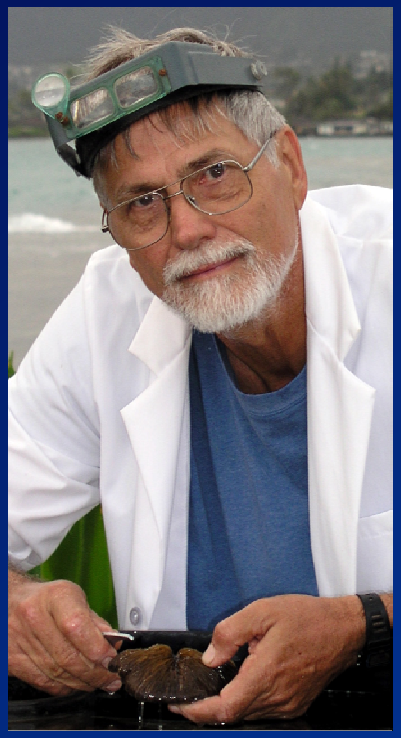
In Memoriam

Faculty

- B. Ray Hawke
- Barry Lienert
- Michael Antal
- Paul Jokiel







Staff

- John Balogh
- John Rooney

RCUH Employee of the Year

2014 **Terry Kerby**
HURL Dir. Submersible Ops.

2015 **Tim Williams**
HSFL Dir. Launch Ops.

SOEST Faculty Recognition

- Axel Timmerman 2015

- Brian Bowen 2016

BoR Excellence in Research Award

- Julia Hammer 2015

BoR Excellence in Teaching Award

- Jeff Drazen 2016

Chancellor's Meritorious Teaching Award

- Luke Flynn Specialist 2016

Chancellor's Outstanding Service Award

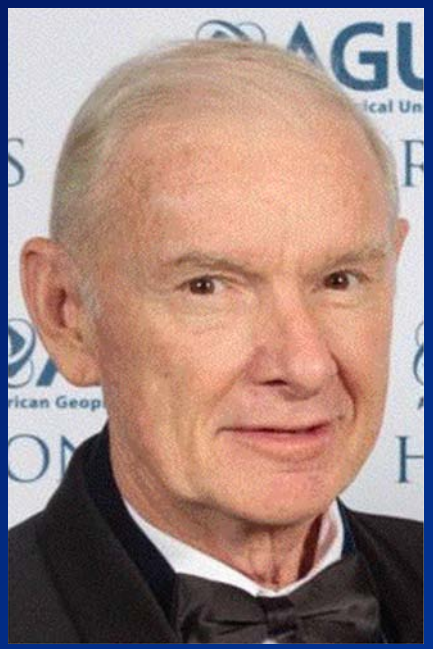
- Keisha Bahr 2016

VCR Student Excellence in Research Award

SOEST Faculty Recognition

- Axel Timmerman 2015
- Mike Garcia 2014

Fellows of the American Geophysical Union



- Shiv Sharma 2014
- Premyslaw Dera 2014

Fellows of the American Mineralogical Society

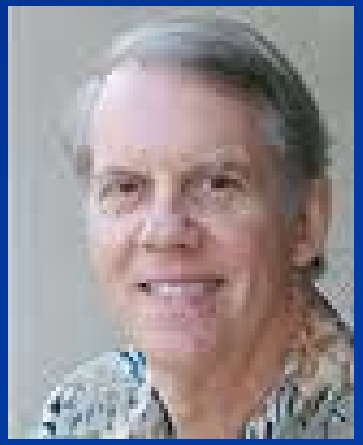
SOEST Faculty Recognition

- Whitlow Au
  Acoustical Society of America
  Gold Medal 2016

- Bin Wang
  American Meterological Society
  Rossby Medal 2015

- Ed DeLong
  Royal Society of Canada
  Huntsman Medal 2014

- Steven Stanley
  Geological Society of America
  Penrose Medal 2013



SOEST Faculty Recognition

- David Karl

The Balzan Prize 2015
in Oceanography

FONDAZIONE INTERNAZIONALE BALZAN

Premio Balzan 2015 per l'oceanografia

David Michael Karl

Per i suoi fondamentali contributi alla comprensione del ruolo
e dell'insostituibile importanza dei microorganismi nell'oceano
e di come essi e il fitoplancton controllino il carbonio, l'azoto e i cicli del ferro oceanici.
Il lavoro del Professor Karl ha reso possibili significativi approfondimenti
in relazione ai cambiamenti globali.

SOEST Recognition

'Elele Organization of 2015 award by the Hawaii Tourism Authority for helping to bring potentially >$100M in convention business to the State

SOEST Open House Oct 2015

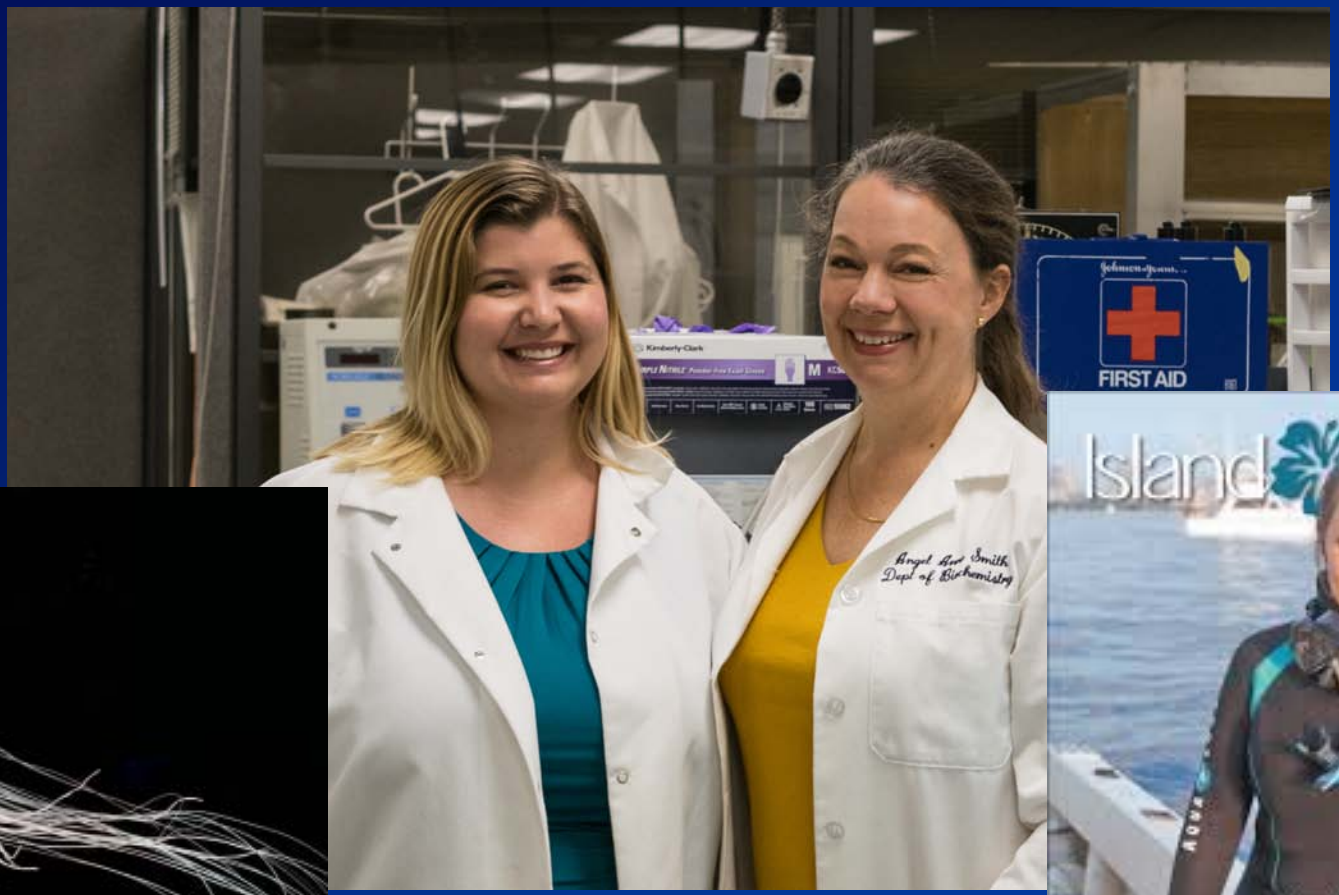
Henrieta Dulaiova & Cindy Knapman
on Hawaii News Now

ORS4 launch
Nov. 2015
HSFL

HIMB Marine Mammals transferred to Sea Life Park

Treatment of jellyfish stings - hot water, not ice

Christie Wilcox & Angel Yanagihara



IOOS
Integrated Ocean Observing System

REGIONAL INFORMATION COORDINATION ENTITY
CERTIFIED
2015

PacIOOS
Pacific Islands Ocean Observing System

Seal of approval for ocean observations

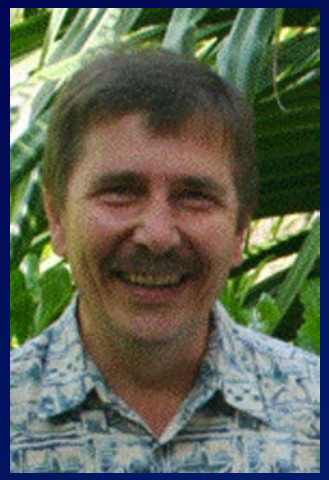
We announce that the Pacific Islands Ocean Observing System was certified last month as the first regional partner to attain full membership of the US Integrated Ocean Observing System (IOOS). This certification is a hallmark of the quality of data provided by the IOOS, to the benefit of the public, the private sector and individuals.

Certified IOOS data can be entered in the permanent US archive at the National Centers for Environmental Information and can be used internationally by the Global Telecommunication System for meteorological data.

Chris E. Ostrander *University of Hawaii at Manoa, Honolulu, Hawaii, USA.*
Conrad C. Lautenbacher *GeoOptics, Dunwoody, Georgia,*

17 SEPTEMBER 2015

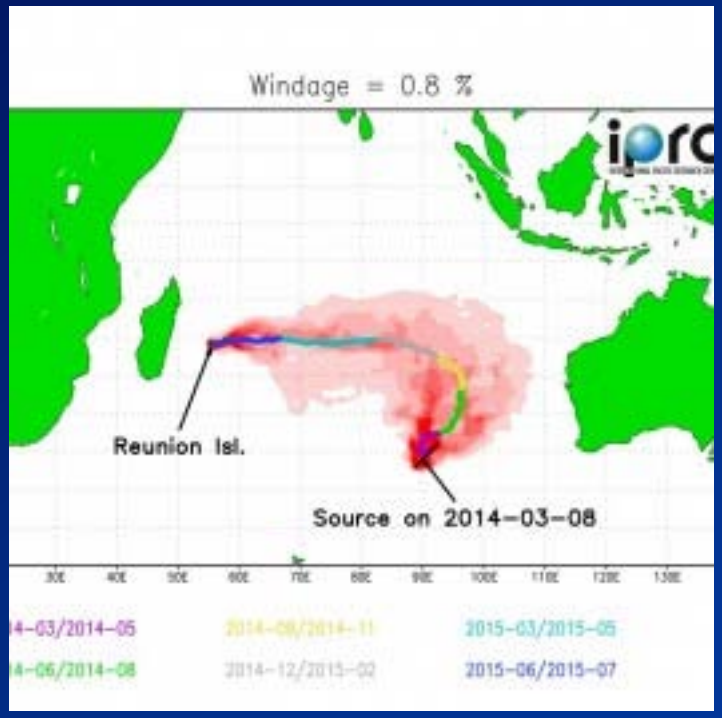
VOL 525 | NATURE

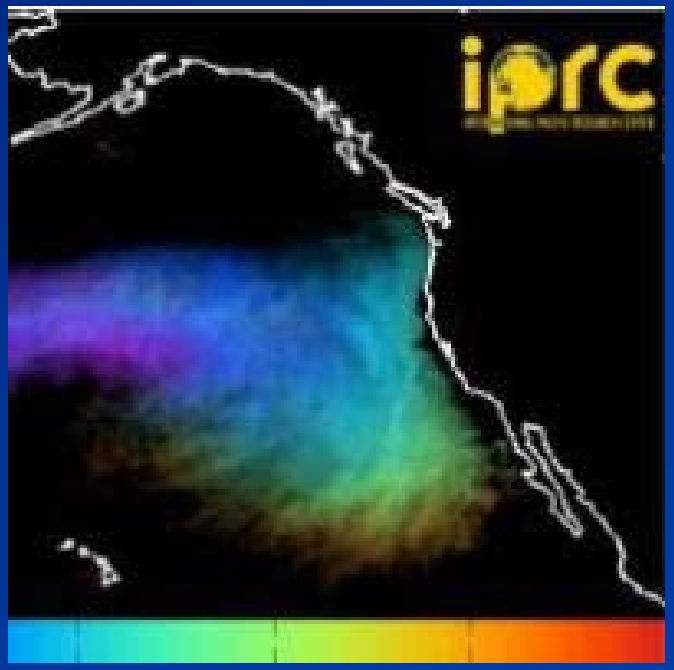


Tracking marine debris

Nikolai Maximenko

- Malaysian Airlines
- Fukushima
- NASA workshop on Mission Concepts for Marine Debris Sensing





Dean, Sen. Lorraine Inouye,
DoT Harbors Darrel Young

UH Marine Center move: New facilities at Pier 35 & METC (Sand Island)

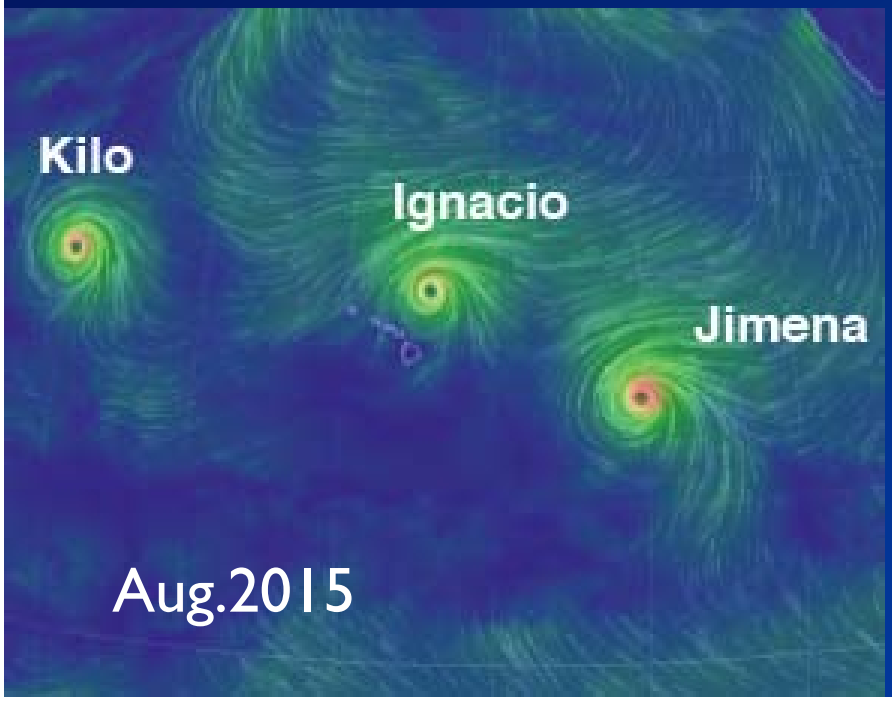
R/V Kilo Moana hosts deep-sea trials for Wendy Schmidt Ocean Health XPRIZE

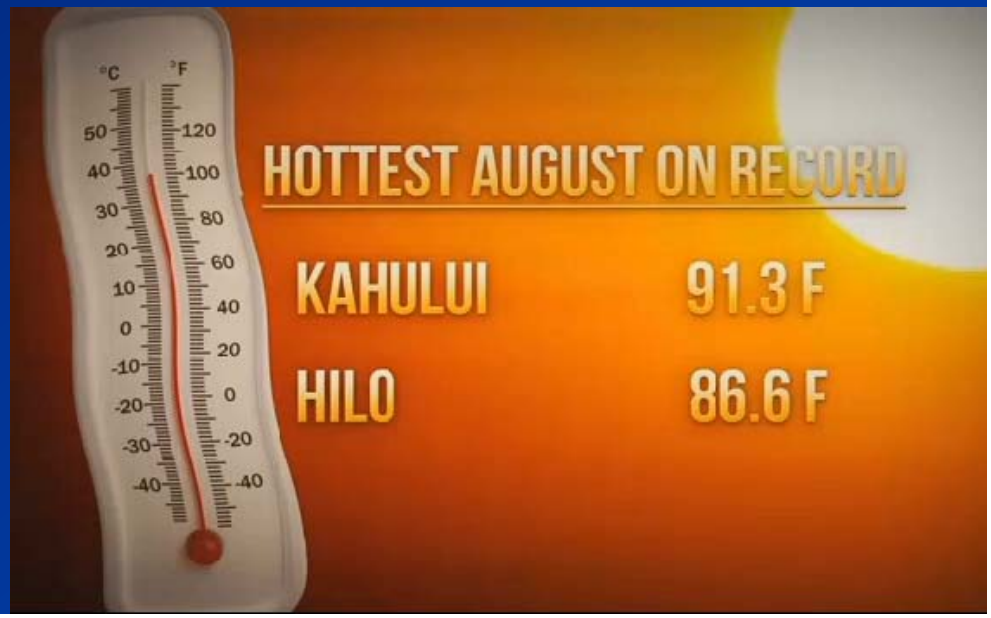
2015-2016 El Nino

World-wide coral bleaching

Record hurricane season (15)

Warmest time on record





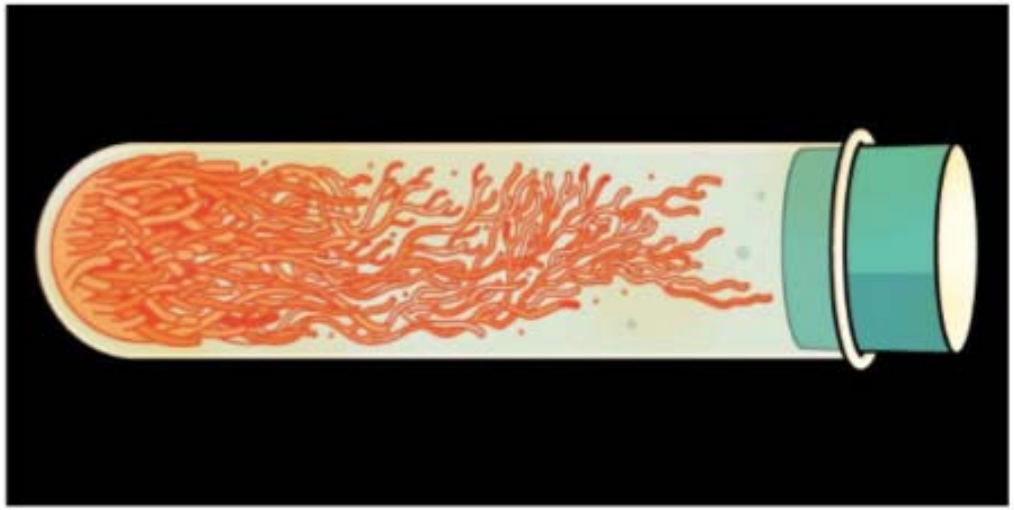
Human carbon release rate is unprecedented in the past 66 m.y.

Richard Zeebe
Nature Geoscience

UNNATURAL SELECTION

What will it take to save the world's reefs and forests?

BY ELIZABETH KOLBERT



Researchers are hoping to "assist" evolution in order to produce hardier corals and tougher trees.
ILLUSTRATION BY HARRY CAMPBELL

Ruth Gates fell in love with the ocean while watching TV. When she was in elementary school, she would sit in front of "The Undersea World of Jacques Cousteau," mesmerized. The colors, the shapes, the diversity of survival strategies—life beneath the surface of the water seemed to her more spectacular than life above it. Without knowing much beyond what

Hope Jahren named on Time Magazine's 100 Most Influential People 2016

"It is a rare breed of scientist who is both a leader in her field and a great writer, but Hope Jahren is both."
Her new memoir, Lab Girl, is on the New York Times best-seller list.

i ka nānā no a ike *by observing we learn*

Culture of Safety
3/16/16

Evaluate hazards/threats

Mitigate Risks

Manage Change

Informed Response

i ka nānā no a ike *by observing we learn*

Culture of Safety

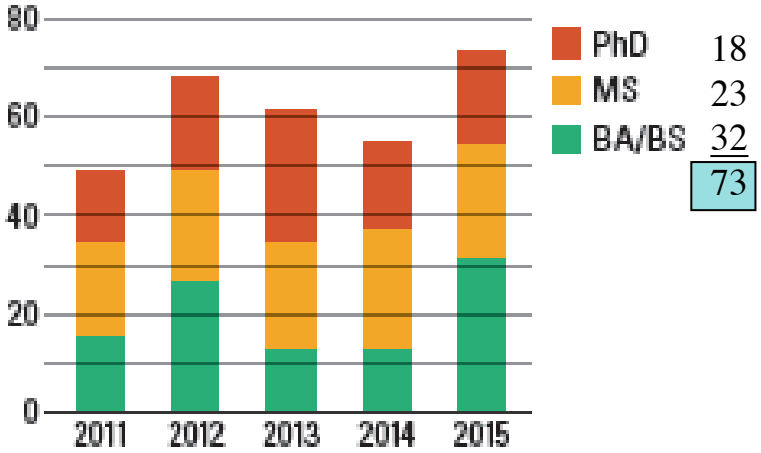
Respect & Civility

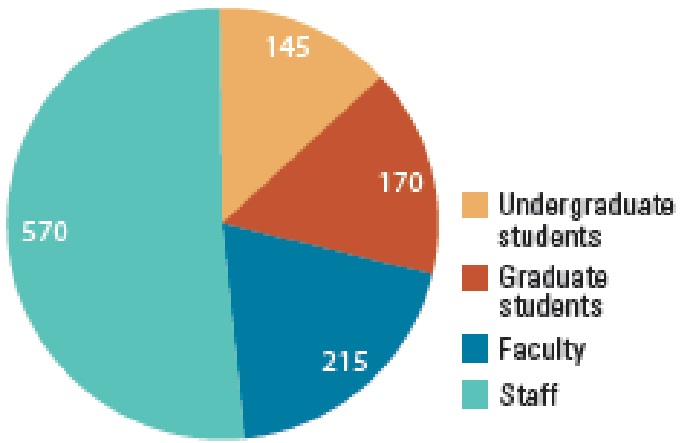
Shared Endeavor

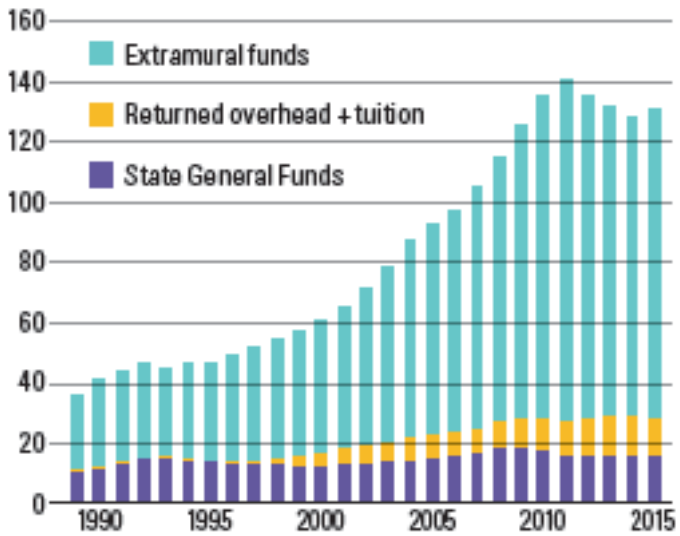
so that we may thrive

”it takes a village”

Global ranking in Geosciences: 13 (NTU); Global ranking in Earth & Environment: 15 (Nature Index)







Tenure Faculty: 125

ATM	11	HIGP	21
G&G	24	HNEI	8
OCE	33	HIMB	12
ORE	6	PBRC	10
Dept.	74	Inst.	51

32% of UHM extramural funding
5% of UHM academic budget
1.6% of UHM net, net tuition
93% of graduate students on waivers

In FY15, 4 of the top 10,
and 10 of the top 50
P.I.s at UH were in SOEST

#2 Rick Rocheleau	HNEI
#3 Mark Merrifield	JIMAR
#6 Sandy Shor	UHMC
#8 Dave Karl	C-MORE
#20 Ruth Gates	HIMB
#26 Leon Roose	HNEI
#27 Chris Ostrander	PacIOOS
#28 Luke Flynn	HSFL
#30 Darren Lerner	SeaGrant
#45 Kelvin Richards	IPRC

For every dollar of University funding to SOEST in FY2015, SOEST raised an additional $4.73 of extramural funding, which generated an additional $9.56 of spending in the State and supported an additional 93.5 jobs per UH $M.

SOEST FY2015 $M	
University Funding	21.3
Extramural Funding	100.8

R.O.I. $\frac{\text{Extra\$}}{\text{UH\$}} = \frac{100.8}{21.3} = 4.73$

$\frac{\text{State\$}}{\text{UH\$}} = \frac{203.7}{21.3} = 9.56$

Using UHERO (2013) study:

SOEST Extramural FY2015 $M	
⇒Direct Local Spending	68.1
+Labor	21.6
+Imports	11.1
	100.8

⇒State Economic Impact:

Business Sales	143.8
Income	51.8
State Taxes	8.2
State Total	203.7

& 1,992 extra jobs

'Ike Wai $20M 5 year
NSF-EPSCOR
groundwater study