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## 2001

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## 2000

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## 1998

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## 1997

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- properties of West Florida Shelf waters using gliders and autonomous platforms. 7pp. Oct 26-29, MTS/IEEE Oceans'09 conference, Biloxi, Mississippi. Paper published in conference proceedings (ISBN CD-ROM: 978-0-933957-38-1).
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  - 9 **Hu, C.**, Y. Wang, Q. Yang, S. He, L. Hu, and M. X. He. Comparison of ocean color data products from MERIS, MODIS, and SeaWiFS: Preliminary results for the East China Seas. ENVISAT Symposium proceedings, 23-27 April 2007, Montreux, Switzerland.
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  - 7 **Hu, C.**, and F. E. Muller-Karger (2003). MODIS monitors Florida's ocean dispersal of the Piney Point phosphate treated wastewater. *The Earth Observer* (NASA), 15(6):21-23.
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  - 5 **Hu, C.** (2003). A simple instrument for measurement of remote sensing reflectance in coastal environment. SPIE Proceedings 4897 (*Multispectral and Hyperspectral Remote Sensing Instruments and Applications*, edited by Allen M. Larar, Qingxi Tong, and Makoto Suzuki. SPIE, Bellingham, WA, 2003), p. 219-226.



Sept 28, 2015, Invited seminar at Texas A&M University Dept of Oceanography & Dept of Atmosphere. "From

Sept 22-24, 2009, NASA GEO-CAPE working group meeting, Columbia, Maryland, Invited presentation: “GEO-CAPE requirements on measurement sensitivity, saturation, and solar angles”

May 6-8, 2009, NASA Ocean Color Research Team meeting, Westin New York at Times Square Hotel, New York, invited presentation: “Coastal ocean color from space: where are we and what’s next”

**Number of projects: 58 (PI on 30)** (since 2009 when C. Hu become teaching faculty)

**Amount to C. Hu: \$14.8M** (since 2009).

73: Remote sensing of marine debris: potentials and limitations

PI: C. Hu

Agency: NASA; Duration: 1/1/2021 – 12/31/2023; Total budget: \$497,231; Hu’s portion: \$497,231

72: Cooperative red tide research program - Reduction of harmful impacts from red tide - Red tide mitigation and technology development initiative

PI: K. Buck (USF), co-PIs: **C. Hu et al.**

Agency: FWC/FWRI; Duration: 7/1/2020 – 6/30/2025; Total budget: \$2,600,000, Hu’s portion: \$600K

PI: C. Hu

71: Deciphering Sargassum physics, biology, and physiology through PACE measurements: Implications to ocean ecology, biogeochemistry, and management decision support

PI: **C. Hu**

Agency: NASA; Duration: 4/1/2020 – 3/31/2023; Total budget: \$682,367, Hu’s portion: \$500K

Agency: NASA;

70: Spectral matching inversion algorithms for PACE application in optically shallow waters: an assessment using HICO and PRISM data -



66: Thermal stress in South Florida estuaries: A multi-

Effort: 1 month/Year

56: Title: Synergistic multi-sensor calibration for global and coastal observations of the aquatic environments

PI: B. Barnes (USF), Co

PI: S. Murawski

Agency: Gulf of Mexico Research Initiative; Duration: 1/1/2015 – 12/31/2017; C. Hu's  
portion: \$450,000

Effort: 1 month/year

46. Title: Establish a multi-

37. Title: Weathering and Advection Model for Oil Spill Tracking (WAMOST).  
 PI: I. MacDonald (FSU), co-PIs: M. Bourassa, D. Dukhovskoy, O. Garcia-Pineda, S. Morey, C. Hu (USF)  
 Agency: BOEM (formerly MMS). Duration: 8/15/2012 – 8/14/2015; C. Hu’s portion: \$120,000.
36. Title: Hyperspectral imaging spectroscopic investigation of California natural and anthropogenic fossil methane emissions in the short-wave and thermal infrared.  
 PI: Ira Leifer (Bubblenology Inc.); co-PIs: C. Hu (USF), C. Miller, D. Tratt, J. Margolis, B. Luyendyk, Y. Hsu  
 Agency: NASA. Duration: 10/1/2012 – 9/30/2015; C. Hu’s portion: \$171,393.
35. Title: Error tolerance and uncertainty estimates for GEO-CAPE ocean reflectance and  
 8/1d-3Syd[(A)1 (c)5 (e an)1.1 (d)1 ( )]8Fgency: NASA. Drspuration: 10/1/2012 – rs2015; CTj( )Tj[. s po
35. Title: E43 (r)5 (ro)2 (r to)7 (le)(i)5 l(ma)1 ( e)1 0 Tc7l); r ( e)1taM (i)5 (n)dTw 3llctroertaAif Ca Oi

PI: F. Muller-Karger (USF); co-PIs: M. Eaken (NOAA), L. Guild (NASA) and R. Nemani (NASA), C. Hu.

Agency: NASA; Duration: 4/1/2010 – 3/31/2014; C. Hu's portion: \$46,677.

27. Title: Mapping and Forecasting of Pelagic Sargassum Drift Habitat in the Gulf of Mexico and South Atlantic Bight for Decision Support.

PI: C. Hu; co-PIs: T. Linton (Texas A&M), F. Muller-Karger and D. Chambers (USF).

Agency: NASA; Duration: 10/1/2010 – 9/30/2013; Amount: \$386,484 (C. Hu's portion: ~\$250K).

26. Title: Enhancing Estuarine Water Quality Management Through Integrating Earth Science Research Results: A Targeted Project for Tampa Bay.

PI: C. Hu; co-PI: C. Kovach (Florida DEP)

Agency: NASA; Duration: 9/1/2009 – 12/31/2012. Amount: \$380,997 (C. Hu's portion: ~\$330K).

25. Title: Physics-based ocean color algorithms for coastal and inland waters.

PI: Z. Lee (Univ Massachusetts at Boston); co-PIs: C. Hu, J. Acker (NASA), etc.s

18. Title: HABSOS binational workshops on Harmful Algal Blooms and environmental measurements.  
 PI: K. Steidinger (FIO); co-PI: C. Hu, S. Vargo and J. Wolny (FIO)  
 Agency: EPA; Duration: 2008 – 2011; Amount: \$329,766 (C. Hu's portion: ~\$100K).
17. Title: A Binational Gulf of Mexico HAB Risk Assessment and Communications Partnership. PI: C. Hu, co-PI: J. Wolny

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OCE6934, Ref# 90356, Practical IDL Programming      Fall 2010  
OCE6934, Ref# 16698, Environ. Optics & Remote Sens.      Spring 2011  
\*OCE4930, Ref# 92020, Deepwater Horizon: Whole Story (UG)      Fall 2011  
\*OCE6934, Ref# 91966, Remote Sensing in Oceanography      Fall 2011  
\*OCE6934, Ref# 86692, Deepwater Horizon: Whole Story (G)      Fall 2011



co-author and made 2 presentations. Won the Outstanding Thesis and Dissertation (OTD) Award from USF for the 2014-2015 academic year.

Jacqueline Long (**graduated at USF/CMS**): Fall 2013 – Fall 2016, thesis title: Whittings in SW Florida coastal waters. Published 3 papers as 1<sup>st</sup> author. Recipient of Sackett Prize award (one student per year) in 2018.

Chih-Wei Huang (**graduated at USF/CMS**): Fall 2016 – Spring 2019.

Alex Manos (**In progress at USF/CMS**): Fall 2019 – present.

Hu as thesis committee member

Ana Odriozola (**graduated at USF/CMS**, major advisor: Frank Muller-Karger of USF), Spring 2003 – Spring 2006, thesis title: “On the Orinoco River plume in the Caribbean”. Published 1 paper as 1<sup>st</sup> author (Odriozola et al., 2007) and another one as coauthor.

Haiying Zhang (**graduated at USF/CMS**, major advisor: Frank Muller-Karger of USF), Spring 2004 – Fall 2006, thesis title “Remote detection of red tides using a fuzzy k-mean classification”. Manuscript published in a conference proceeding.

Bredan O’Connor (**graduated at USF/CMS**, major advisor: Frank Muller-Karger of USF), Fall 2011 – Summer 2013, thesis title: “Assessment of the Mississippi River diversions and characterization of the oil from the Deepwater Horizon oil spill”. Made a presentation at the GoMRI conference in New Orleans, January 2013.

Lewis Stewart (**graduated at USF/CMS, Dec 2017**), major advisor: David Naar of USF).

Doctor's Dissertation Advisory Committees

Outstanding Thesis and Dissertation (OTD) Award from USF for the 2013-2014 academic year. Made numerous presentations in professional meetings.

Lin Qi (**Graduated at Nanjing Institute of Geography and Limnology in Nov 2014**). Dissertation title: “Remote sensing of phytoplankton pigment concentrations in Taihu Lake: Algorithm development and applications”. Published 3 first-authored papers and 1 coauthored paper. One paper was highlighted by IOCCG in its November 2014 news bulletin.

Mengqiu Wang (**Graduated at USF/CMS in August 2018**): Fall 2013 – Aug 2018, Dissertation topic: Remote sensing of pelagic Sargassum. Published 6 manuscripts as 1<sup>st</sup> author and 7 papers as co-author. Recipient of numerous fellowships and awards.

Shuangling Chen (**Graduated at USF/CMS in fall 2018**): Fall 2013 – Fall 2018, Dissertation topic: Remote sensing of surface pCO<sub>2</sub> in the Gulf of Mexico. Published 5 manuscripts as 1<sup>st</sup> author and two as coauthor. USGS graduate assistantship recipient 2014 – 2016 and winner of several scholarships.

Shaojie Sun (**Graduated at USF/CMS in fall 2018**): Fall 2013 – Fall 2018, Dissertation topic: oil spill remote sensing. Published 6 papers as 1<sup>st</sup> author and several others as co-author. NASA fellowship recipient since Fall 2016.

Yingjun Zhang (**in progress at USF/CMS**): Fall 2016 – present.

Jing Shi (**in progress at USF/CMS**): Fall 2019 – present.

Yao Yao (**in progress at USF/CMS**): Fall 2019 – present.

David Puig Moreno (**in progress at USF/CMS**): Fall 2020 – present.

Hu as dissertation committee member

Bisman Nababan (**graduated at USF/CMS**, major advisor: Frank Muller-Karger of USF), Fall 1998 – Spring 2005, dissertation title: “Bio-optical variability of surface waters in the Northeastern Gulf of Mexico”, 167pp. Published two papers as 1<sup>st</sup> author and two others as co-author.

Zhiqiang Chen (**graduated at USF/CMS**, major advisor: Frank Muller-Karger of USF), Fall 2000 – Fall 2006, dissertation title: “Monitoring water quality in Tampa Bay: Coupling *in situ* and remote sensing”. Published 4 papers as 1<sup>st</sup> author, 4 papers as co-author.

Marina Marrari

Kara Radabaugh (**graduated at USF/CMS**, major advisor: Ernst Peebles of USF),  
Fall 2009 – Spring 2013, dissertation title: “Light-Environment Controls and  
Basal Resource Use of Planktonic and Benthic Primary Production”, 189pp.  
Published 1 paper as 1<sup>st</sup> author, submitted 2, a5.51( )Tj-0.001 Tc 0.002 Tw 7.685 0 T9[gr

Dr. Lin Qi, USF/CMS, January 2015 – July 2015. Focused on coastal algal blooms and water quality

Dr. Mengqiu Wang, USF/CMS, August 2018 – present. Continued PhD work on Sargassum remote sensing and dynamics.

Dr. Shaojie Sun, USF/CMS, December 2018 – August 2019. Focused on oil spills and other pollutions.

Dr. Min Xu, USF/CMS, June 2020 – present. Algal blooms in estuaries and coastal waters

Dr. Shuai Zhang, USF/CMS, October 2020 – present. GEE applications in aquatic science.

2015 – 2017, Editor-in-Chief, *Remote Sensing of Environment*

2008 – 2014, Topical Editor (ocean optics and remote sensing), *Applied Optics*

Member of AGU, AAAS, ASLO, and APS

Visiting professorship at Wuhan University and Ocean University of China

Reviewer of professional journals: *Remote Sensing of Environment*, *Applied Optics*, *Nature Communications*, *International Journal of Remote Sensing*, *Limnology & Oceanography*, *Marine Chemistry*, *Journal of Geophysical Research*, *Geophysical Research Letters*, *Oceanography*, *Progress in Oceanography*, *Journal of Oceanography*, *Chinese Science Bulletin*, *IEEE Geosci. & Remote Sens.*, *Journal of Applied Remote Sensing*, *Journal of Phycology*, *Continental Shelf Research*, etc.

Reviewer and panelist of NASA, NOAA, and NSF proposals

Convener of international conference sessions

Host of two international workshops on HABs research

Host of visiting scholars from India, Trinidad, China, Iraq, Mexico

Developer of Virtual Systems for data processing and information sharing

Service provider (satellite-based data products) to > 60 countries

Member, International Ocean Color Coordination Group

Member, Products and Service Committee, GCOOS

Member, Data Management Committee, SECOORA

Member, NASA GEO-CAPE mission science definition team

Member, Water Quality and Harmful Algal Blooms Teams, Gulf of Mexico Alliance, 2010 –

Member, Program Committee, Asia-Pacific Remote Sensing Symposium, fall 2012

Member, Program Committee, Second International Conference on Global Change and the Environment in Asia and Pacific (GCEAP, 28-29 Oct 2010)

Member, Advisory Committee of NASA/GSFC Ocean Ecology Lab

Member, USF Honors and Awards Committee, 2011 – 2015

Member, USF Research Misconduct Committee, 2011 –

Member, USF/CMS Faculty Evaluation Committee, spring 2011

Chair, USF/CMS Curriculum Committee, 2011 –

Member, NSF OOI Program Advisory Committee, 2012 –