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PACE SAT Meeting

- 1:00 -1:10 Project Update and Points of Information (Werdell, Dierssen)
- 1:10-1:20 Vanderlei Martins HARP2
- 1:20-1:45 Ivona Cetinic, NASA -- The EXPORTS project and how it relates to PACE
- 1:50-2:20 Kelsey Bisson, OSU Seasonal bias in Rrs observations

PACE mission update

to the SAT on 16 April 2021

news

- launch no earlier than 30 Nov 2023
- OCI engineering test unit & flight unit testing continues
- 2602 2602

SPEXone

- SPEXone flight unit testing @ GSFC underway
- HARP2 flight unit build underway @ UMBC
 preparing for environmental testing @ GSFC
- applications preparing for 2 summer focus sessions & fall workshop

 announcement out to hire Joel's replacement
 https://ssaihq.com/employment/Careers.aspx?req=21-3073
- simulators pyTOAST data to be released ~end of next week 5 days of OCI L1B, plus example geophysical products

fun

- Fall AGU sessions (Dec 2021, New Orleans)
 - o Advanced remote sensing in preparation for NASA's PACE mission (Cairns, Remer)
 - Advancing aerosol remote sensing in the next decade (Knobelspiesse, Sayer, Seidel, Natraj)
- Ocean Sciences session (Feb 2022, Honolulu)
 - Ushering in a new era of hyperspectral and polarimetric radiometry for remote sensing of global ocean ecosystems (Werdell, Cetinić, McKinna, Dierssen)
- Frontiers in Remote Sensing special issue (abstracts due 15 June 2021)
 - Polarization of Light as a Tool for Characterizing Different Facets of the Atmosphere-Ocean System

more fun

Voice of the Sea EXPORTS / PACE watch party (https://youtu.be/4rdrpxSIMG4)





1. Second Meeting Logistics

- Mystic CT and University of Connecticut
- Proposed HYBRID/IN PERSON & ONLINE
- 6-8 October 2021. Wed.-Fri.



Connecticut

MYSTIC CONNECTICUT















Mystic CT

Amtrak to Mystic, CT from New York and Boston airport

• Flights to Providence, RI (PVD) closest (45 min drive to mystic) or BDL

or New York

Carpool to campus (15 min drive)

- Bike ~45 min to campus
 - Group rental possible
- Paddleboarding on Mystic River ©



- Hotels \$100 and up
- Location:
 - Big box near highway 95
 - Smaller inns in town
- I am looking to arrange group rate
- But ok to book what you want.



Hyatt Place Mystic

Mystic

1/2 Mi To Mystic Aquarium & Dining

Mins to Rhode Island Beaches. Free Parking, Shuttle. 24 Hr Dining, Outdoor Pool, Bar, Gym, Starbucks, Free Bfast Rates Avail.

\$125

4.5/5 Wonderful (1,931 reviews)

per night \$250 for 2 nights



Holiday Inn Express Mystic

Mystic

imple Smart Travel

Featuring everything you need for a simple, engaging place to rest, recharge and get things done.

Breakfast included

4.4/5 Excellent (1,369 reviews)

\$177

per night \$355 for 2 nights



The Taber Inne & Suites

Mystic

We have 3 left at 10% off at \$149 \$134

Free Cancellation Reserve now, pay later

4.3/5 Excellent (287 reviews)

per night \$268 for 2 nights

You could be seeing lower prices

With member prices, you could save 10% or more right now on thousands of properties.

Sign up, it's free Sign in



The Whaler's Inn

West Mystic

We have 2 left at

Free Cancellation

4.6/5 Wonderful (411 reviews)

\$255 per night



Hyatt Place Mystic

Mystic

\$125

4.5/5 Wonderful (1,931 reviews)

per night \$250 for 2 night



Howard Johnson by Wyndham Mystic

Mystic

\$101

3.9/5 Good (1,953 reviews)

\$202 for 2 nights

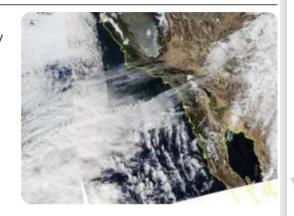
Vanderlei Martins

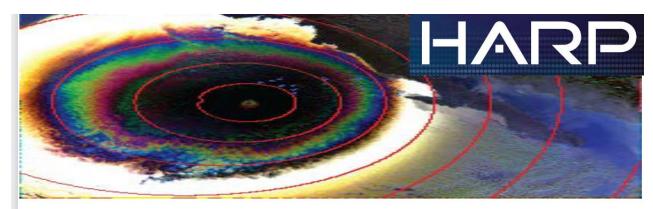


Physics Prof. Martins discusses his climate satellite on NPR

Dr. Vanderlei Martins, UMBC Professor of Physics, was on NPR this week to discuss his CubeSat, a tiny satellite which measures atmospheric composition from space.

The NPR interview is available at http://wypr.org /post/what-tiny-satellites-can-tell-us-about-ourclimate





HARP CubeSat – An innovative Hyperangular Imaging Polarimeter for Earth Science Applications

J. Vanderlei Martins, Tim Nielsen, Chad Fish, Leroy Sparr, Roberto Fernandez-Borda, Mark Schoeberl, Lorraine Remer

Small Sat Pre-Conference Workshop, Logan Utah - 3 Aug 2014









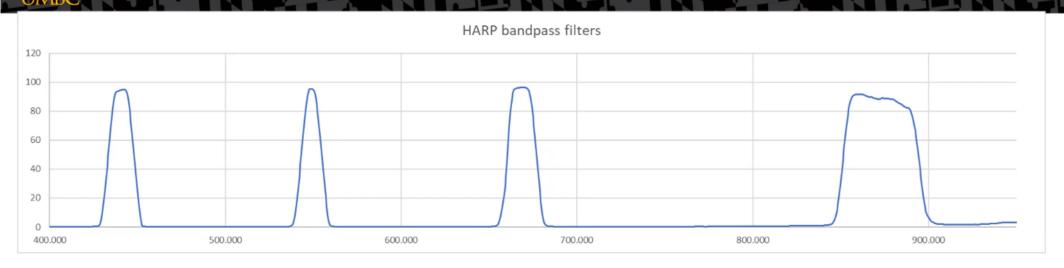






Current bandpass filters for HARP2





HARP2 uses leftover resources from HARP CubeSat with some components "rebuilt" and re-worked for optimization when possible

Band Optimization is required to improve signal to noise ratio in all bands, to equalize wavelength x FOV for NIR band, and to reduce potential water vapor contamination in the NIR band.

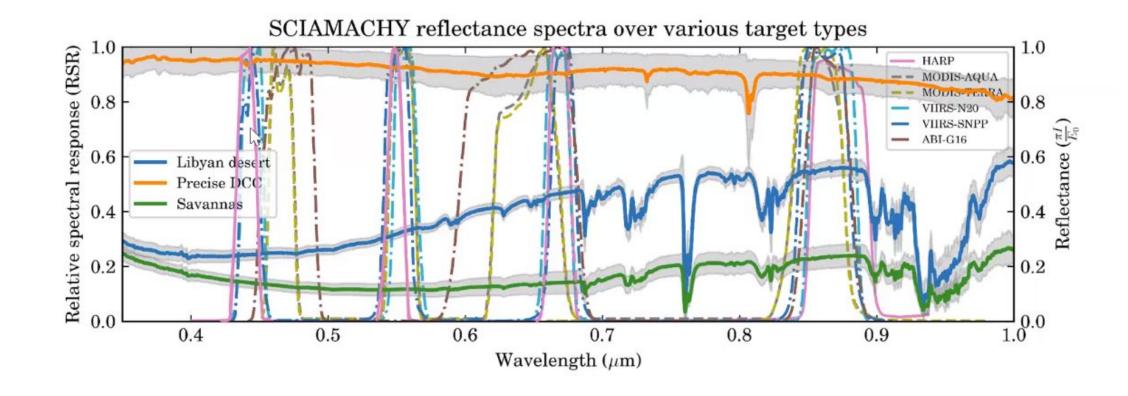
HARP2 Band optimization goal:

- All band would be narrowed around the same center wavelengths.
- Right edge of NIR band would move slightly to shorter wavelengths.



HARP CubeSat Intercomparisons

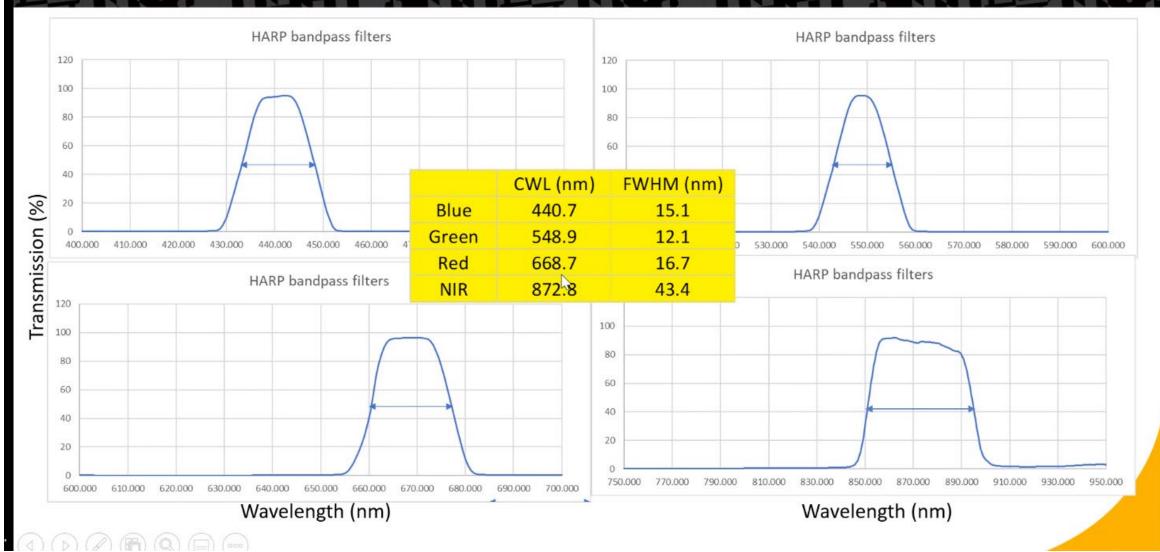
Spectral band differences between HARP CubeSat and other sensors: MODIS-AQUA, MODIS-Terra, VIIRS-N20, VIIRS NPP and ABI-G16





Current HARP2 bands





Ivona Cetinic EXPORTS



NASA Ocean @NASAOc... · 3/8/21 ···· Scientist Ivona Cetinic loves being on the water. She uses optical tools to shed light on the role that phytoplankton diversity plays in the ocean. schmidtocean.org/cruise/seaspa...



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EXPORTS links

https://oceanexports.org/projectoffice.html

Kelsey Bisson

Kelsey Bisson

View

Contact



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Career Links:

<u>Department of Botany and Plant Pathology</u>



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NEXT PACE SAT Meeting 21 May 2021

1:00 -1:10 Project Update and Points of Information (Werdell, Dierssen)

1:10-1:20 Annette deCharon – PACE Website

1:20-1:45 Dave Haffner. NASA. Ozone products from OCI

1:50-2:20 Liane Guild. NASA Ames. Aircraft Ocean Color Validation