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Posters

FEMME

Genoa 2026

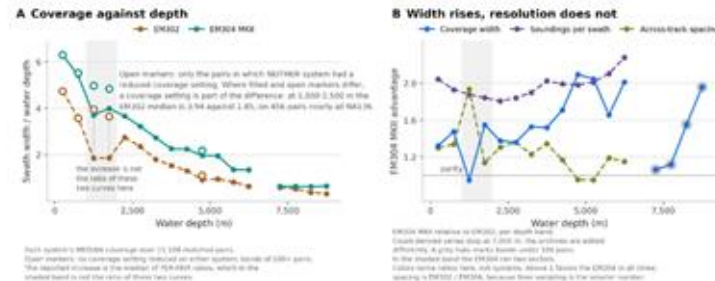
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Bridging the Archive

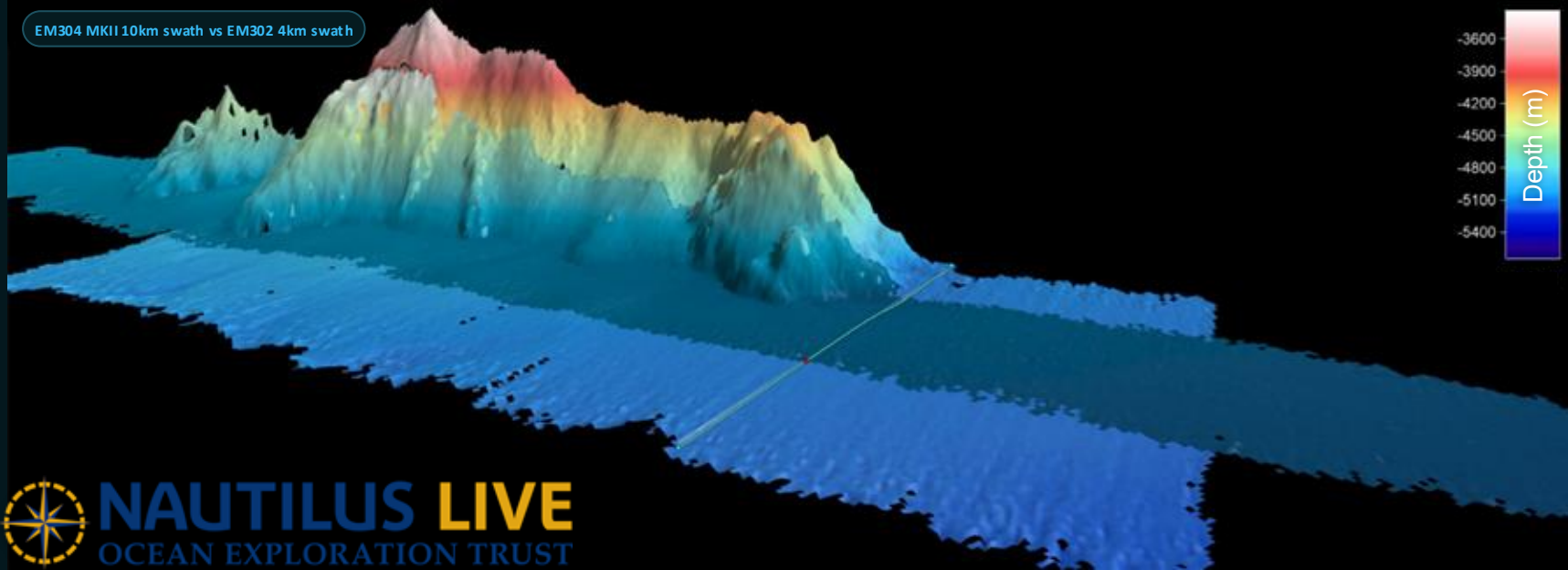
Comparing EM304 MKII performance against legacy EM302 coverage on E/V Nautilus

Hayley Drennon, Derek Sowers, Renato Kane | [Ocean Exploration Trust](#)

1.9× coverage gain in 4,000–6,000 m water depth



EM304 MKII 10km swath vs EM302 4km swath



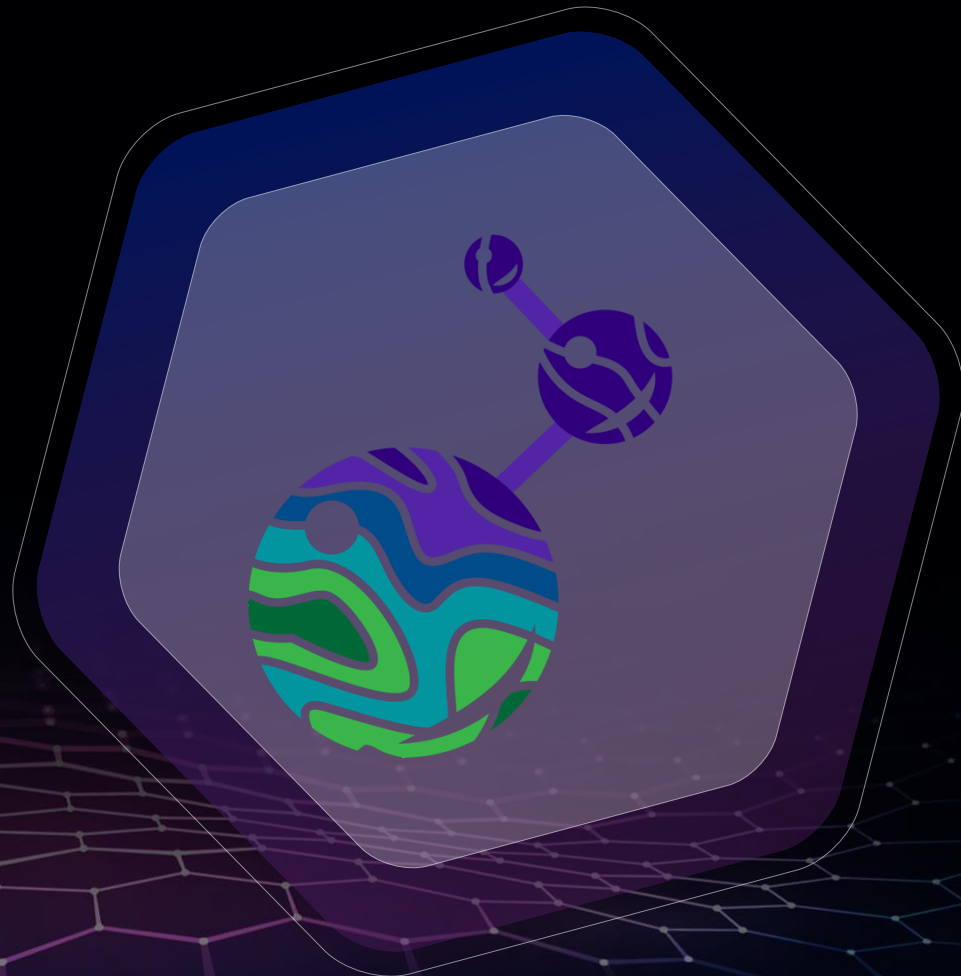
BATHYLAB

MARIE at Sea:

Field Trials of Machine
Perception Assistance
for Multibeam Acquisition

Shannon Hoy and Patrick Cooper, *FEMME 2026*

www.bathylab.com | info@bathylab.com





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GAMP - from concept to open sea

Marco Paterno
G.A.M.P Srl

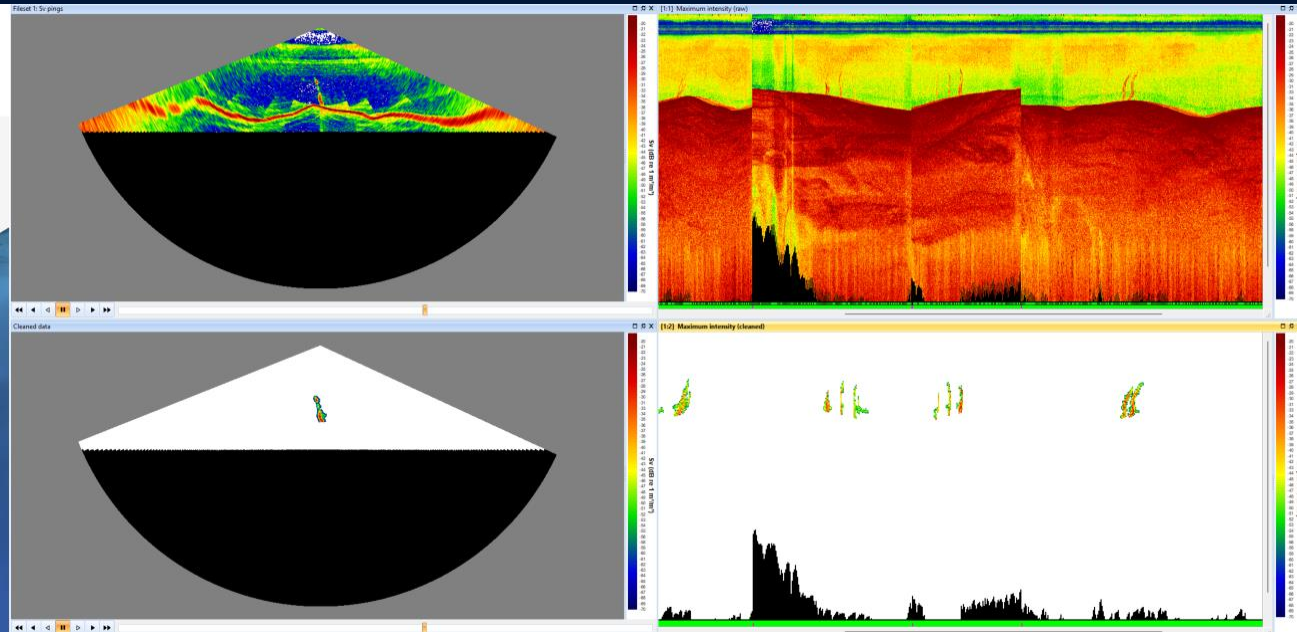
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Beyond bathymetry: Opportunities for water-column data analysis in multibeam surveys





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From Model to Movement: Leveraging the U.S. Academic Fleet for Global Seafloor Mapping

Vicki Ferrini, Marie Tharp Senior Research Scientist
Lamont-Doherty Earth Observatory of Columbia University

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Detection of fluid emissions in the water column data of multiple Kongsberg MBESs using an adaptable deep learning method,

Tyméa Perret
Ifremer

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FLOTTE
OCÉANOGRAPHIQUE
FRANÇAISE
PAR L'IFREMER



EM712 Backscatter Cross-calibration

***Using a Calibrated EK80
and Controlled Angular Measurements***

Ridha Fezzani | Underwater Acoustics Laboratory, IFREMER, France



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Charting New Depths: Transformation of Denar Pathfinder with Kongsberg Technology

Yunus Cezairli
DenAr

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Advancing Geomorphological Mapping for Marine Biodiversity: From Vessel Bathymetry to AUV Fine-Scale Multibeam Analysis

Irene Diez

Spanish Institute of Oceanography (CSIC-IEO)

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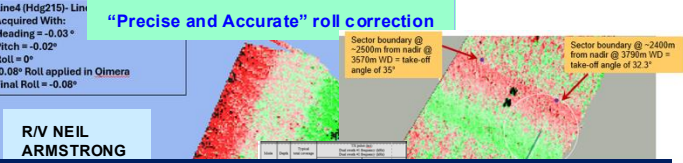
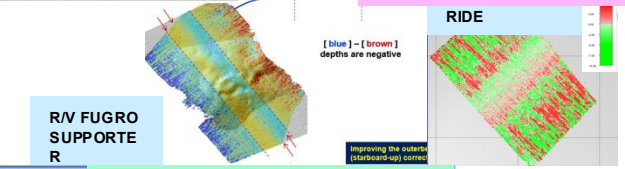
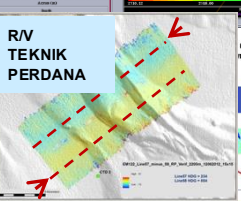
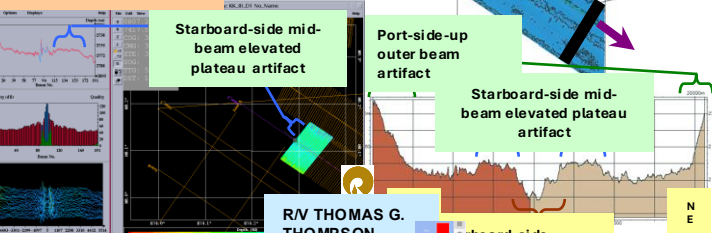
Intentional Acquisition Optimized to Survey Objectives

Dan Orange

U.C. Santa Cruz / Integral Consulting / ONE (Oro Negro Exploration LLC)

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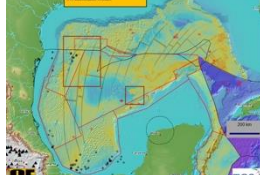
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Can correct for best roll across the entire swath, or “Precise and Accurate” for inner swath* – you can’t do both. (*80% of soundings are within 0.08% of water depth!)

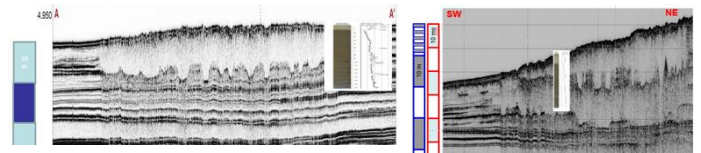
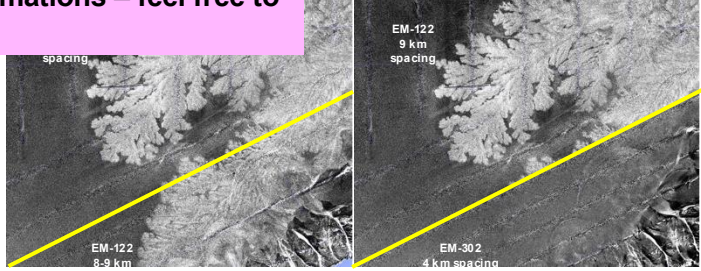
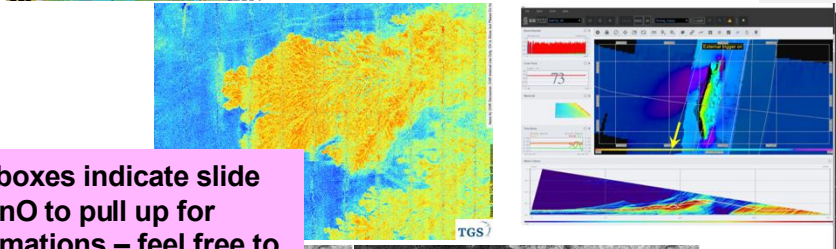
FOR REGIONAL SURVEYS (full swath)

Final Cape Fear values	0.00 sec.	-0.08°	-0.04°	-0.03°
FOR PRECISE AND ACCURATE SURVEYS (use for nadir + 34°)				
MAC Revised values	0.00 sec.	-	-0.02	-0.03



Intentional Acquisition Optimized to Survey Objectives

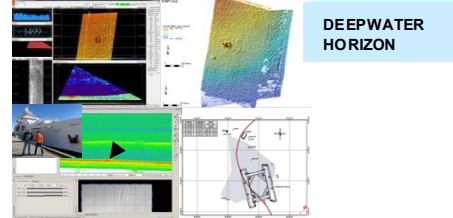
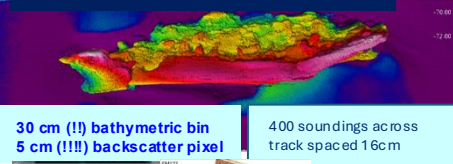
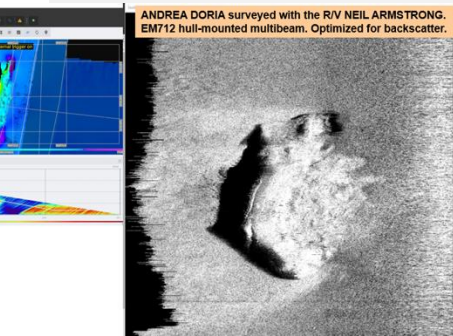
Daniel “DanO” Orange^{1,2}, James Gibson³, Eli Silver⁴, John Decker and Phil Teas⁵
Tolu Akande, Ola Oshikoya, Gate Idogo, Rishabh Singh, Musa Animashaun, Andy Egogo-Stanley, Simon Tipton & Anand Hiroji²
Jim Gharib⁶, Clay Whittaker⁷, Kyle Becker⁸, and Eben Franks⁹
¹U.C. Santa Cruz (also “ONE”, Ono Negro Exploration LLC and Principal Consulting; ²The University of Southern Mississippi; ³Flagra; ⁴NAVO (ret.); ⁵University of Washington; ⁶New Bedford Research & Robotics, also WHOI (ret.)

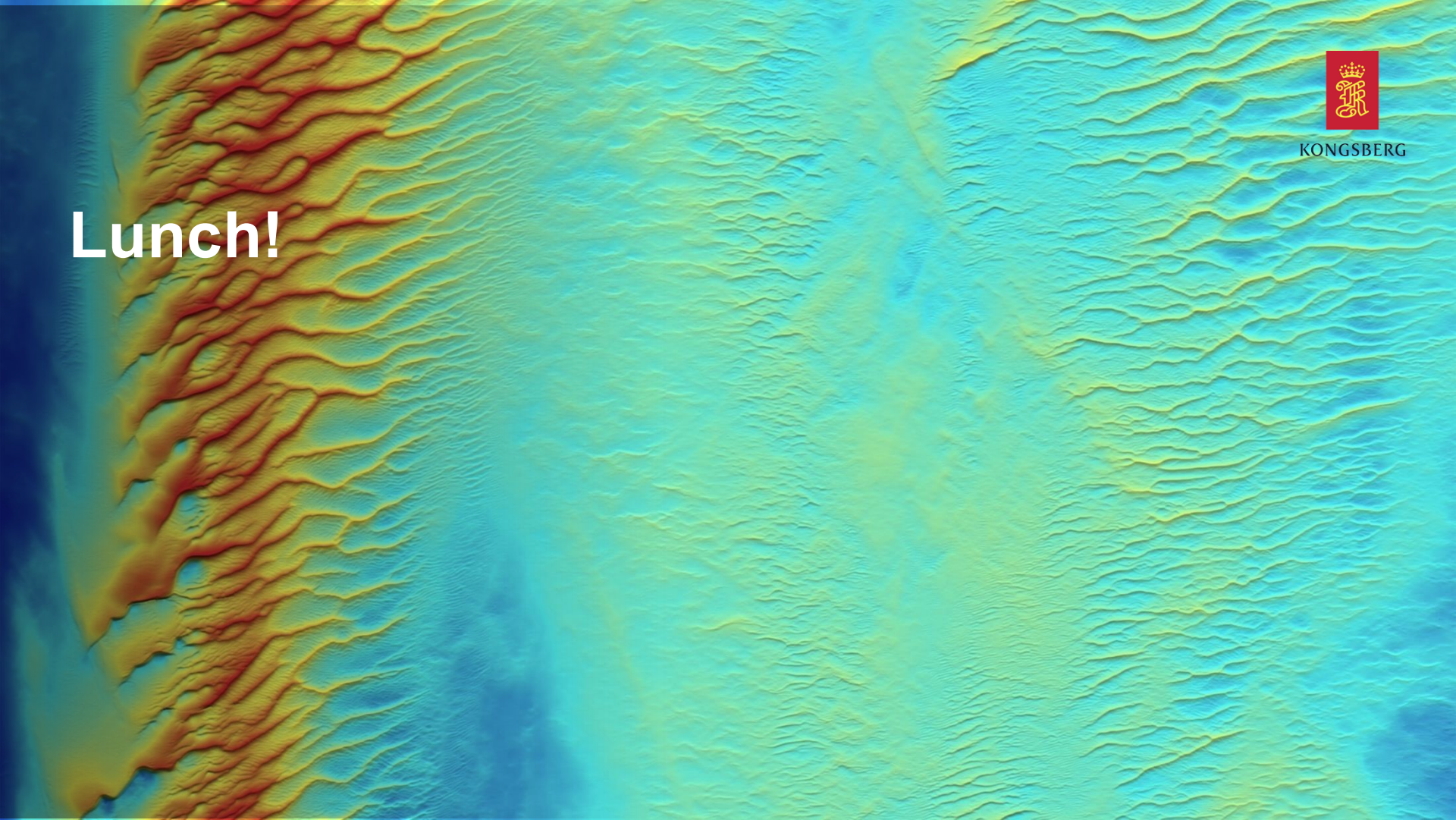


The EM124 1°x2° “sees” the dendritic pattern of the “keels” at the base of the 1st fan lobe ~7.5m below seafloor– but the EM304 1°x1° does not!



Disclaimer: Although funded by ONR, the items covered in this presentation represent the ideas and interpretations of DanO and co-authors only. ONR’s support for this work does not imply any endorsement by NAVO or USN of our techniques / strategies. (Note: DanO does not have a security clearance.)





Lunch!



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