

OCEAN OPTICS XXIV

Valamar Lacroma Dubrovnik Hotel | Dubrovnik, Croatia | October 7–12, 2018

<https://oceanopticsconference.org>

Thursday, October 11

Poster Session 4

10:30–12:00

Poster 60

AUTONOMOUS OPTICAL OBSERVATIONS FROM A RAPID PROFILING WIREWALKER DURING NASA EXPORTS

A month-long record of hourly profiles from a wave-powered Wirewalker are presented from the 2018 EXPORTS cruise in the North Pacific. The Wirewalker rapidly traverses the upper 500m of the water column, outfitted with a dissolved oxygen optode, chlorophyll, PAR, beam attenuation and backscatter sensors. These highly detailed records capture the physiological rhythms of the surface phytoplankton community and the variability of the particle field below. Ultimately these data will allow us to estimate net community production from the submeso- to mesoscale contributing to this major field campaign aimed at improving our understanding of the biological pump.

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