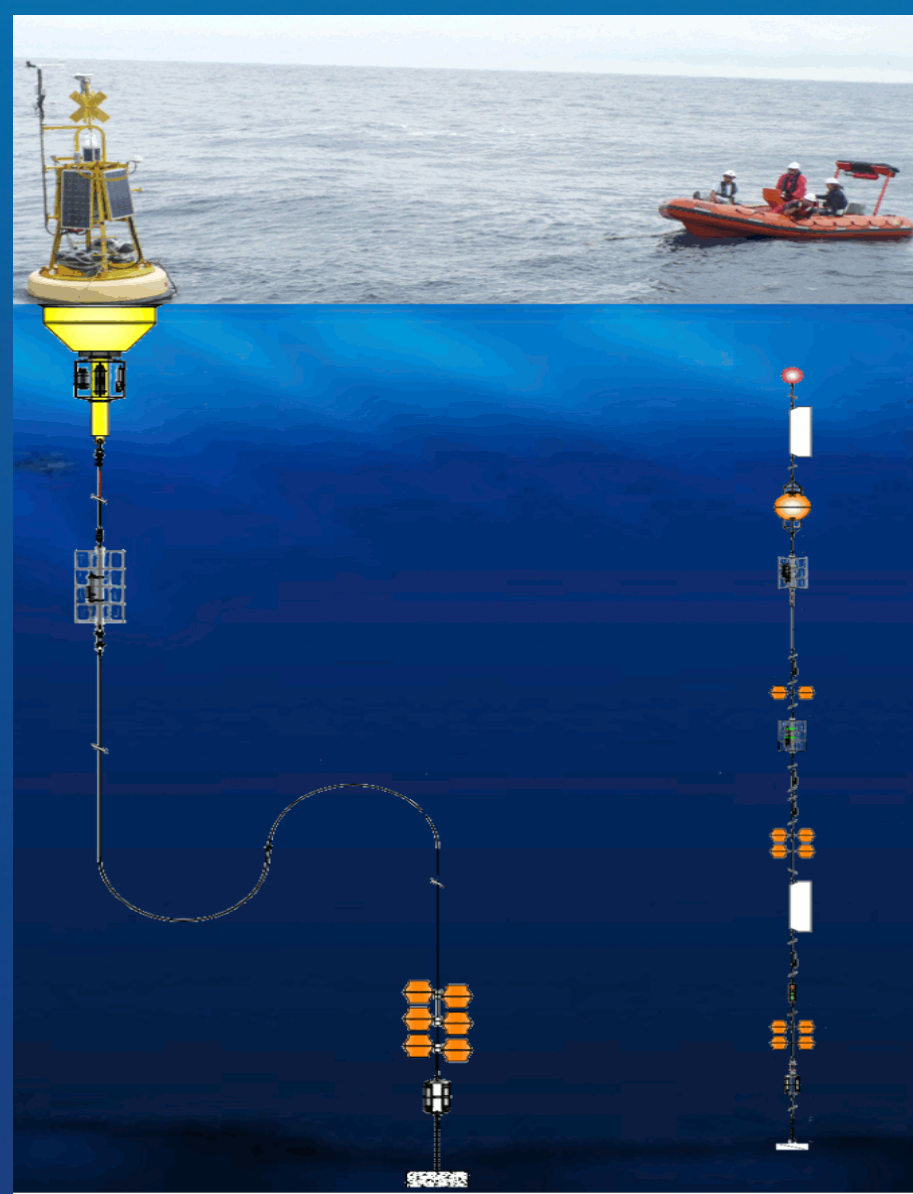




# Preliminary results from recent time series acquired at the EMSO E2M3A Observatory (Southern Adriatic)

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# OGS

Istituto Nazionale  
di Oceanografia  
e di Geofisica  
Sperimentale

## Outline

### I Part

- EMSO Southern Adriatic Regional Site
- Long-term thermohaline variability 2006 – 2019
- Recent measurements (2021-2022)

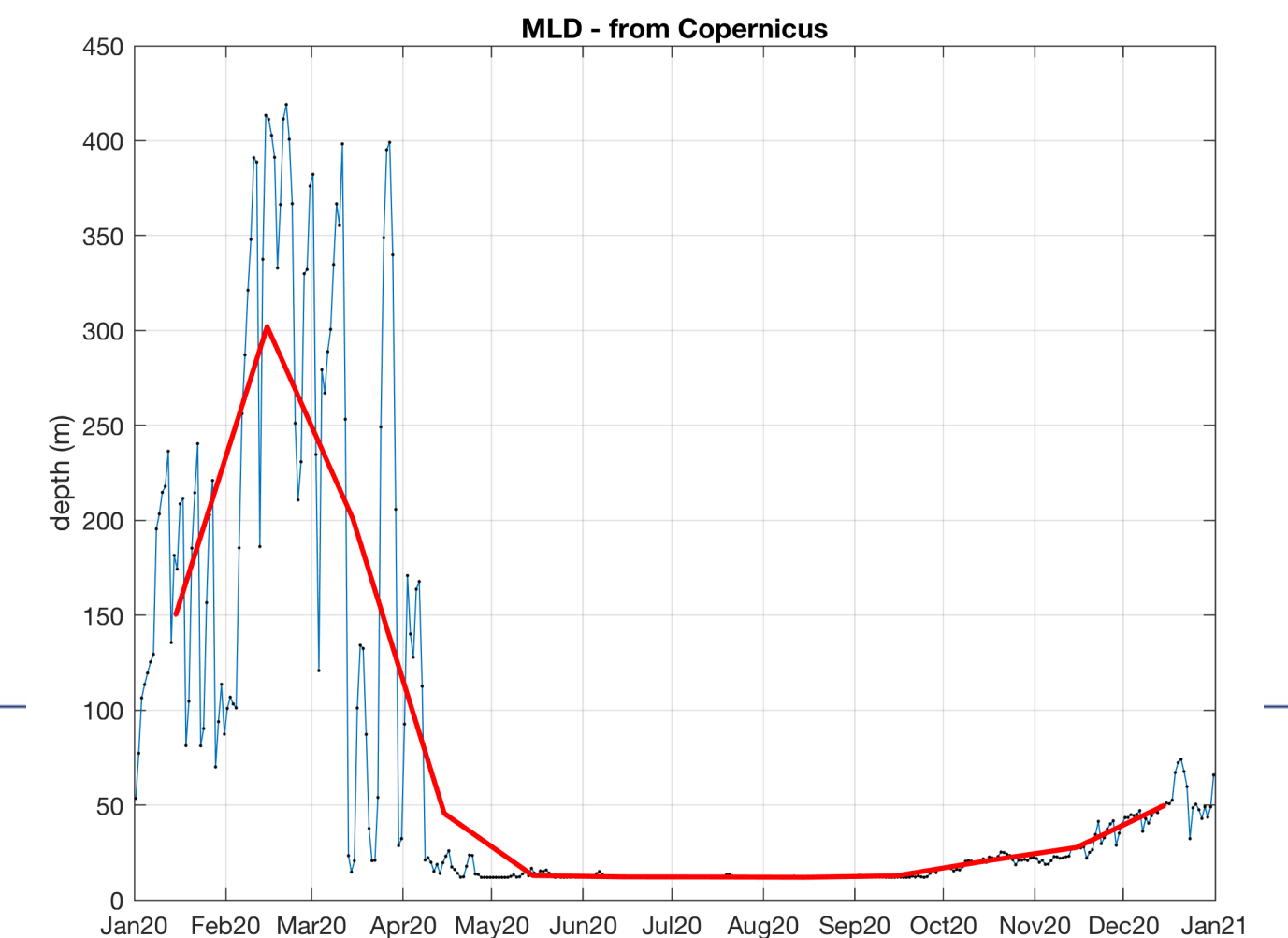
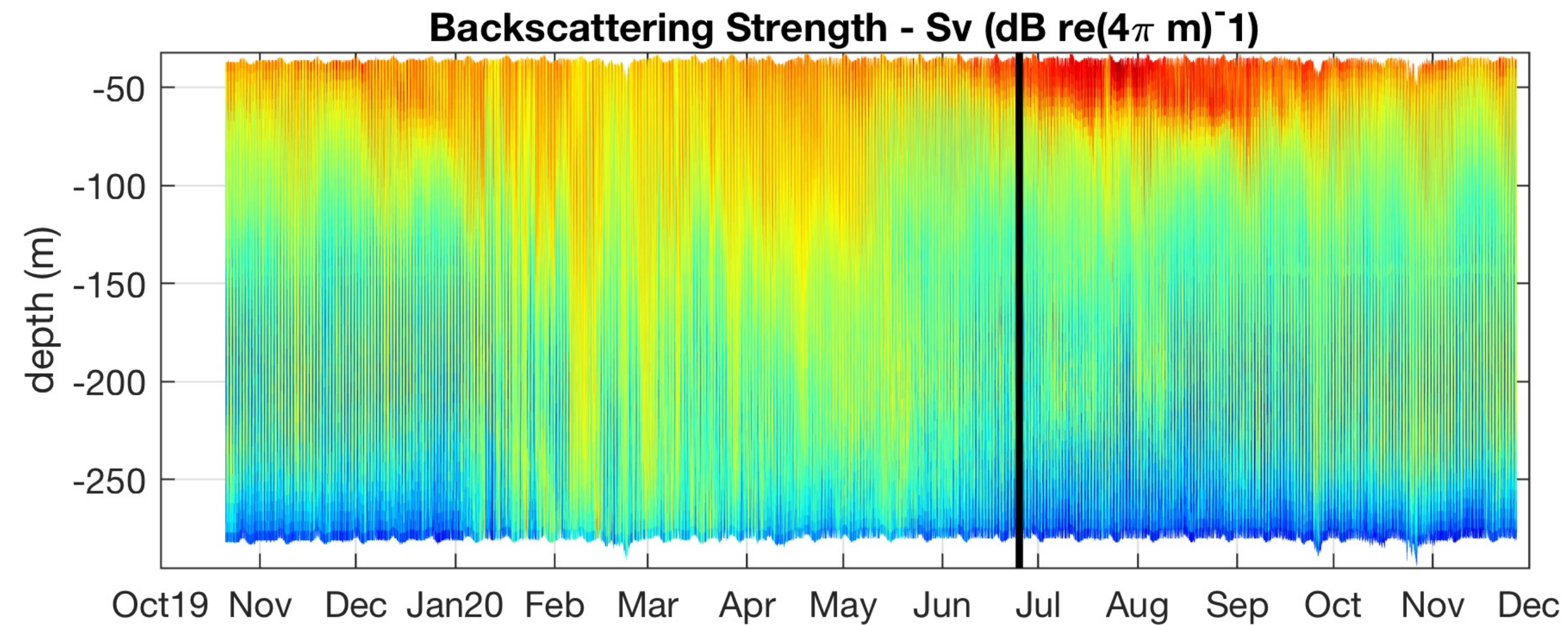
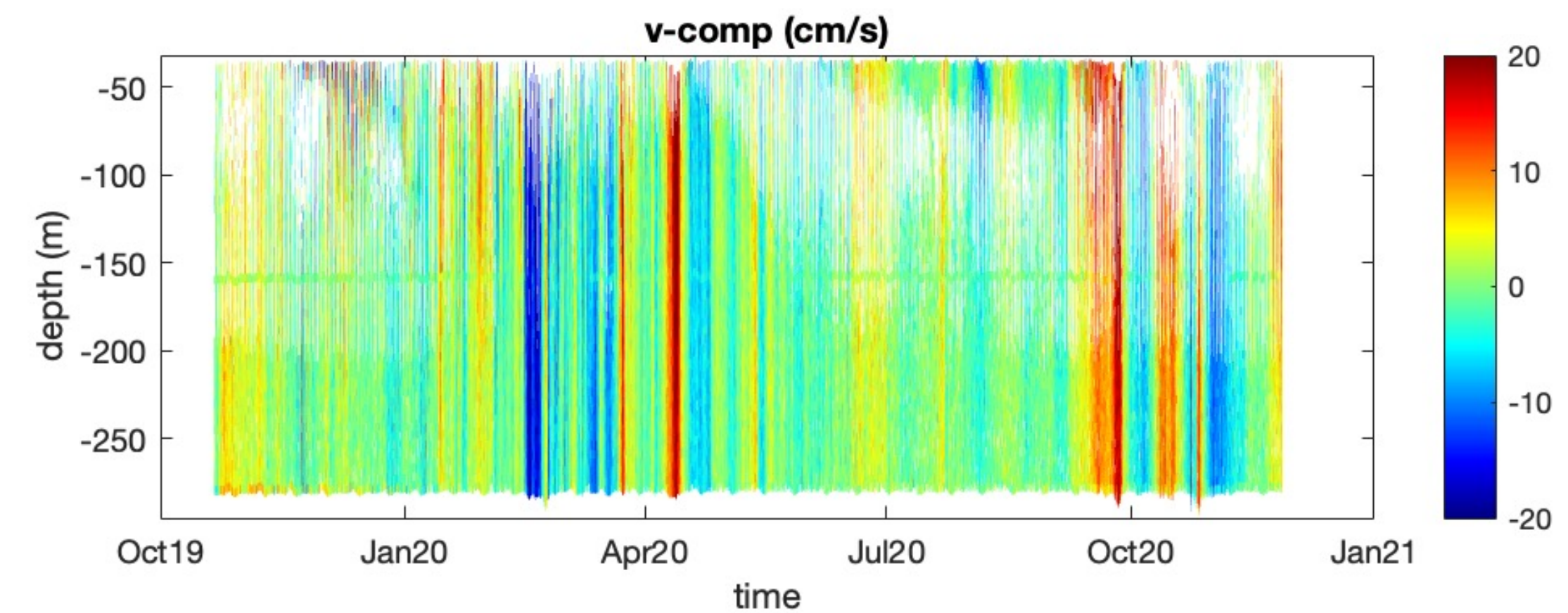
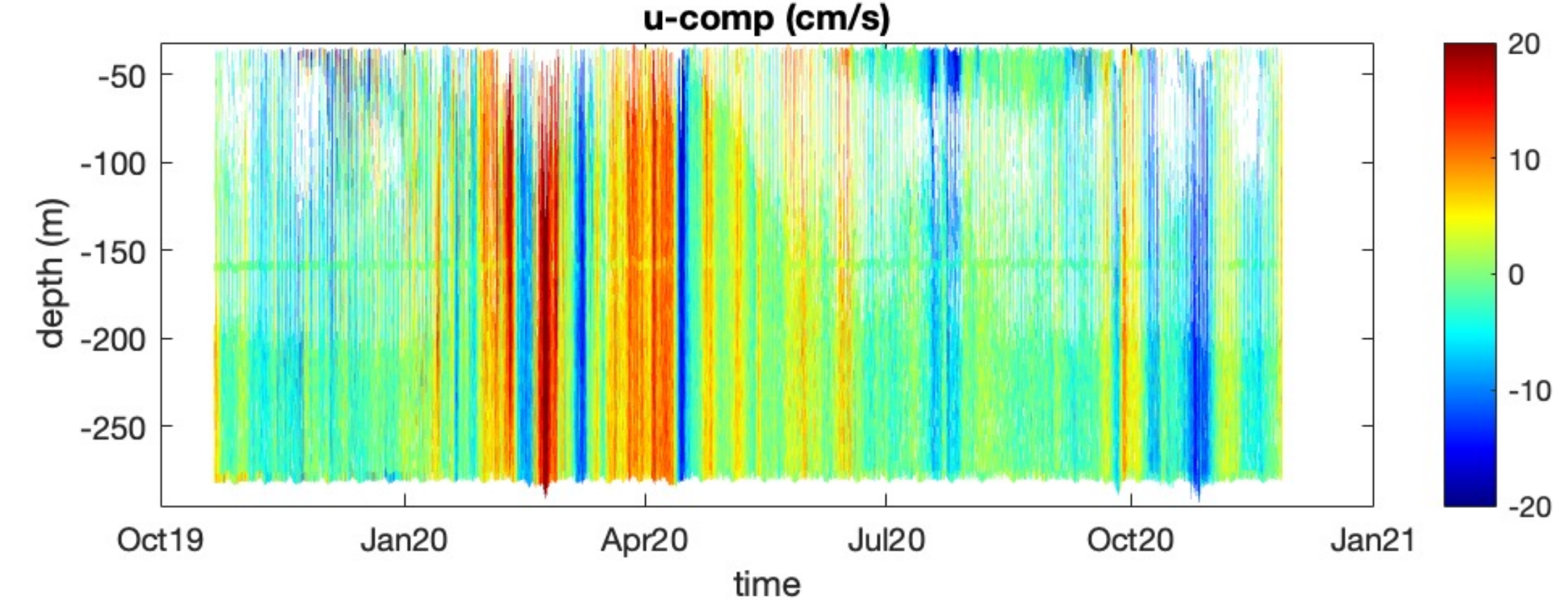
### II Part

- Current variability
- Connection with biology

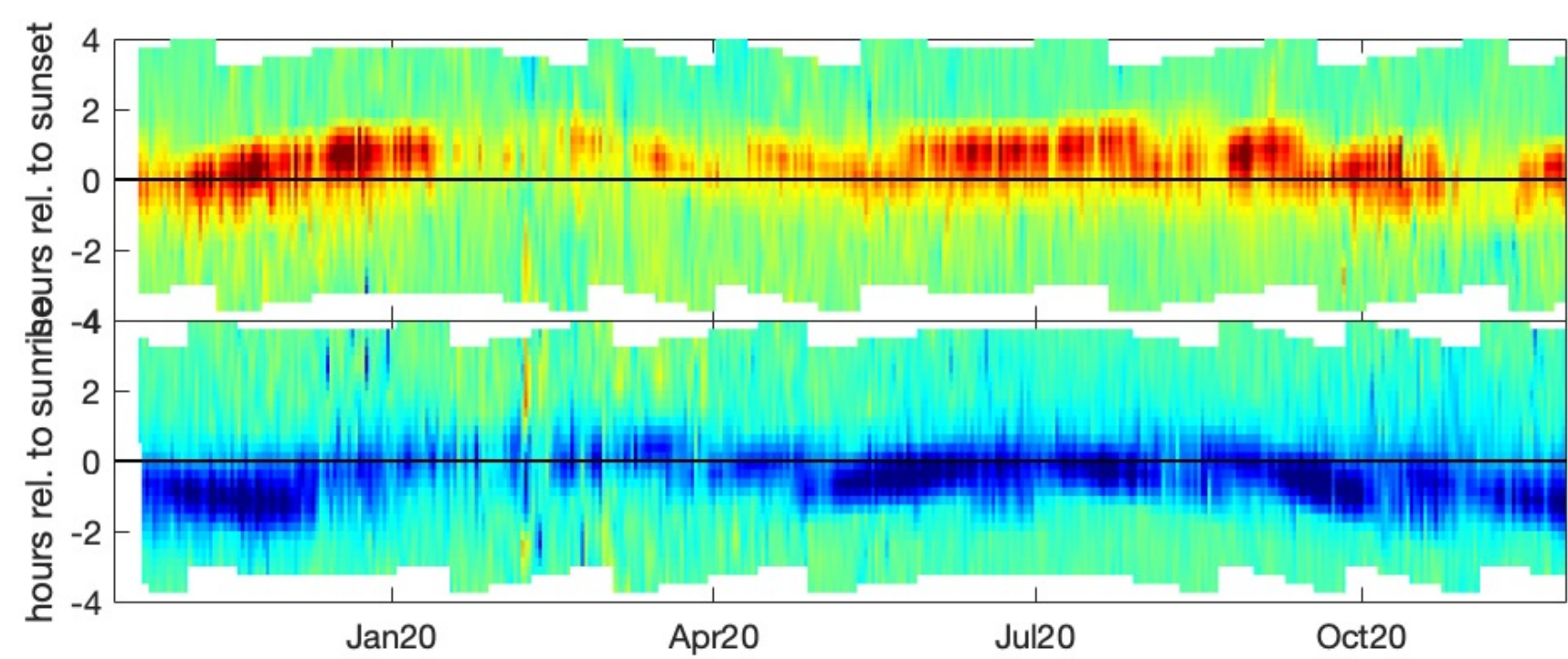
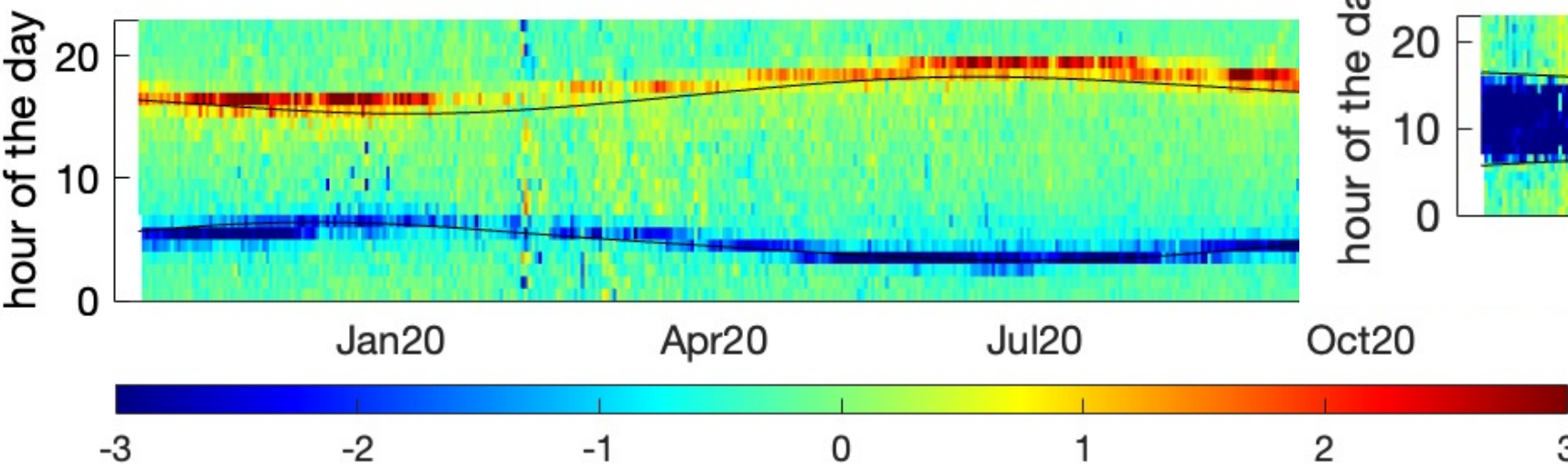
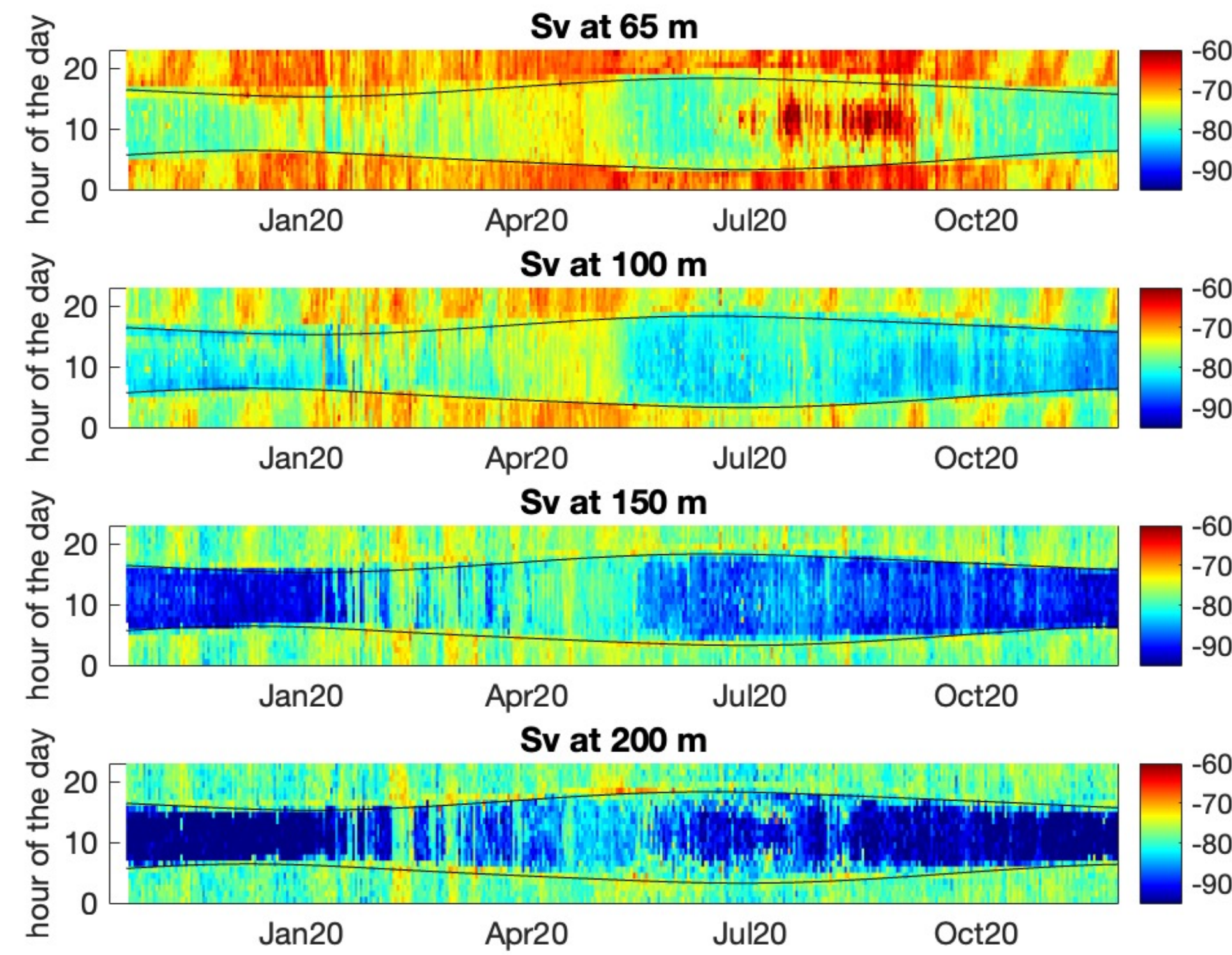
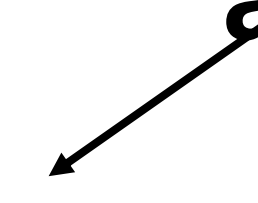


# ADCP Data

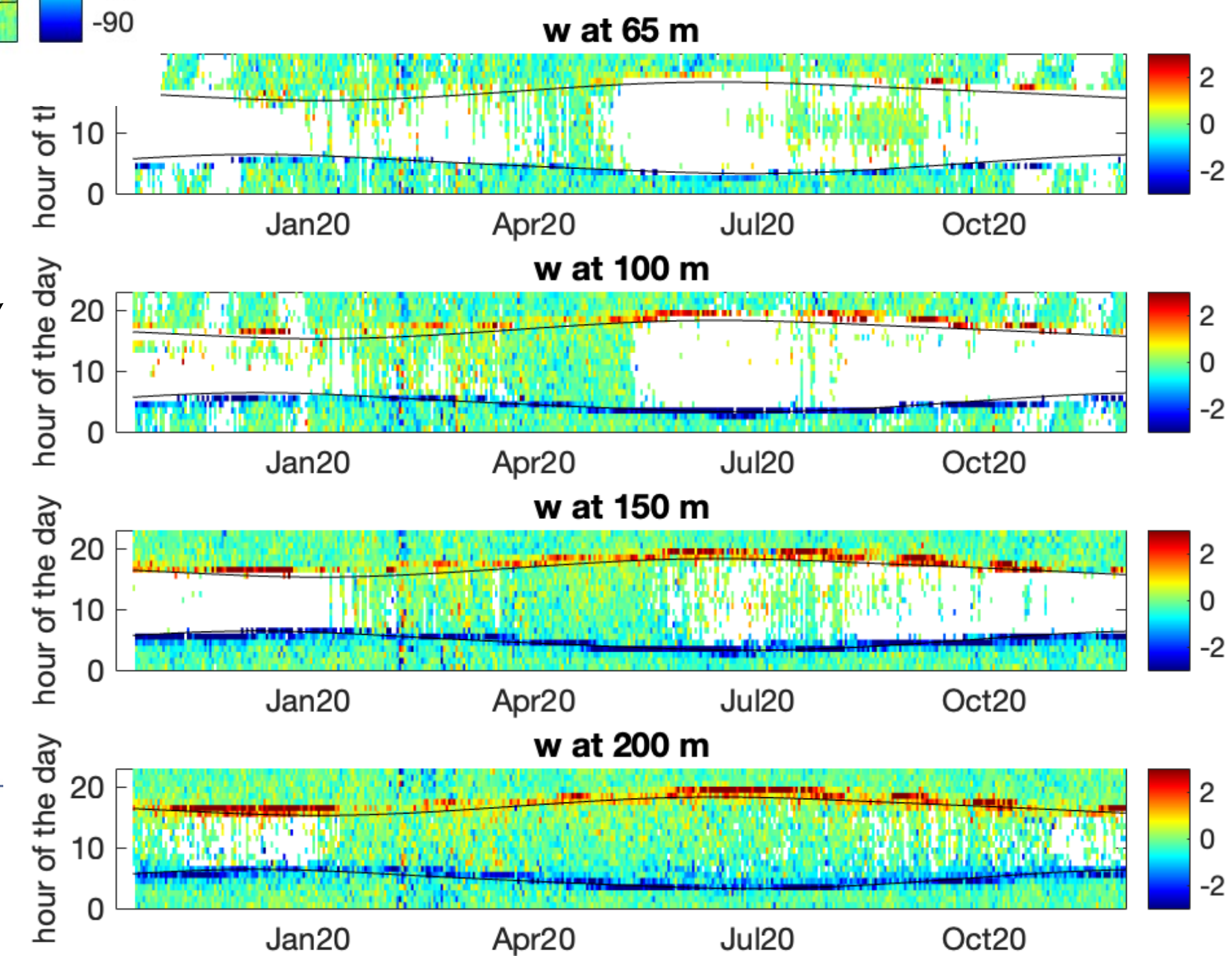
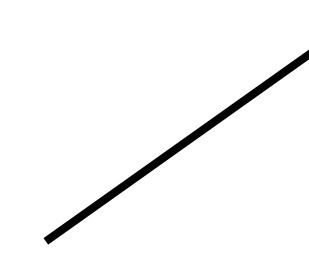
- 150 kHz
- Upward looking
- Depth: 290 m
- Period: October 2019-November 2020

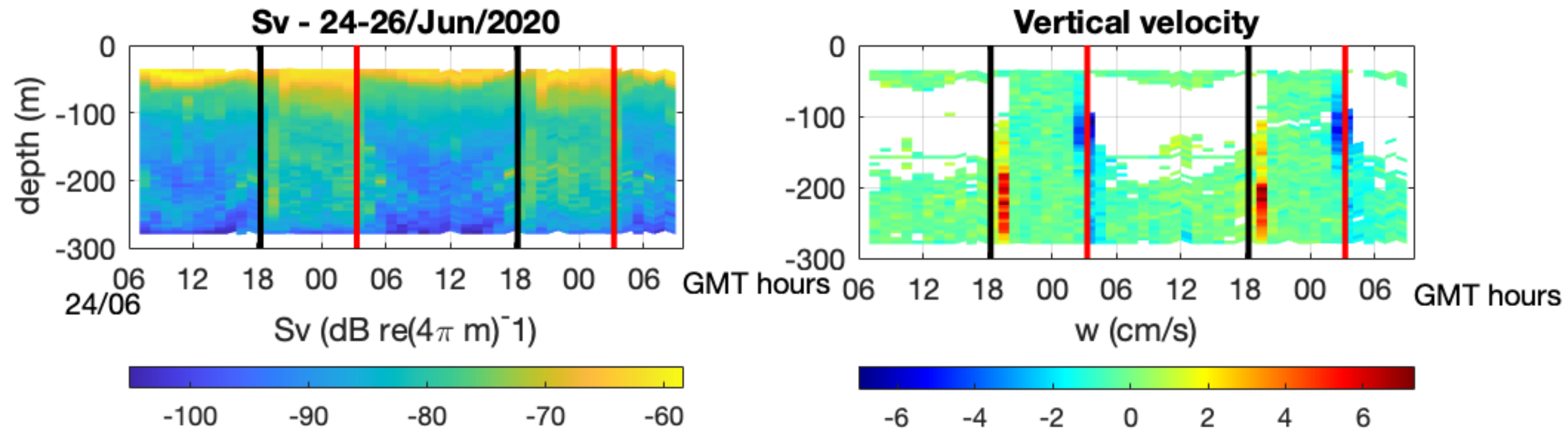


# Sv vs hour of the day at different depths

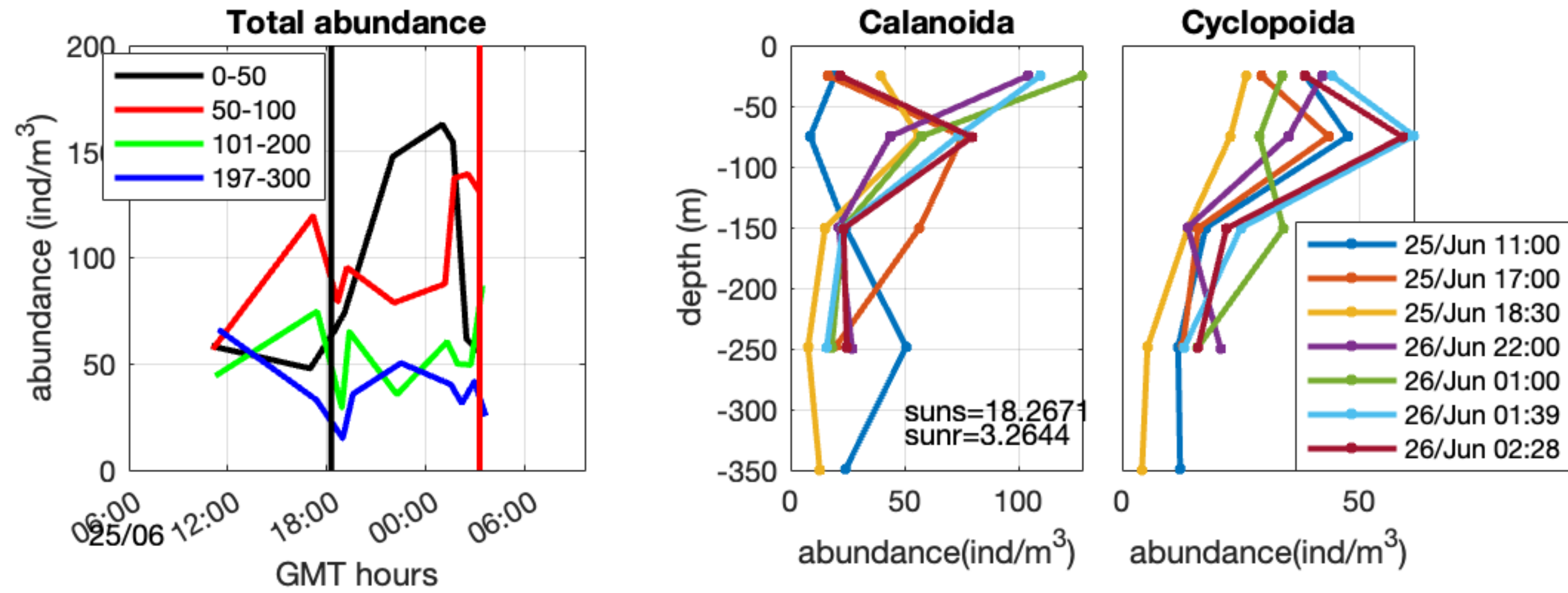


# w vs hour of the day at different depths



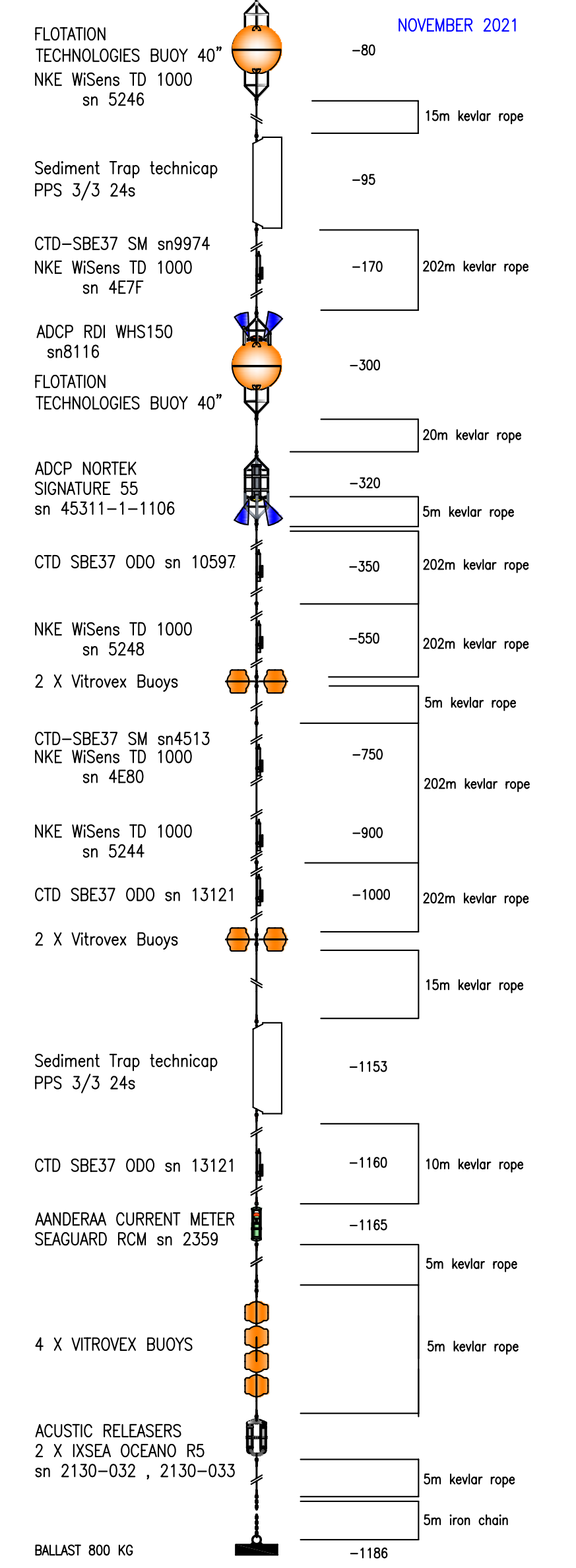
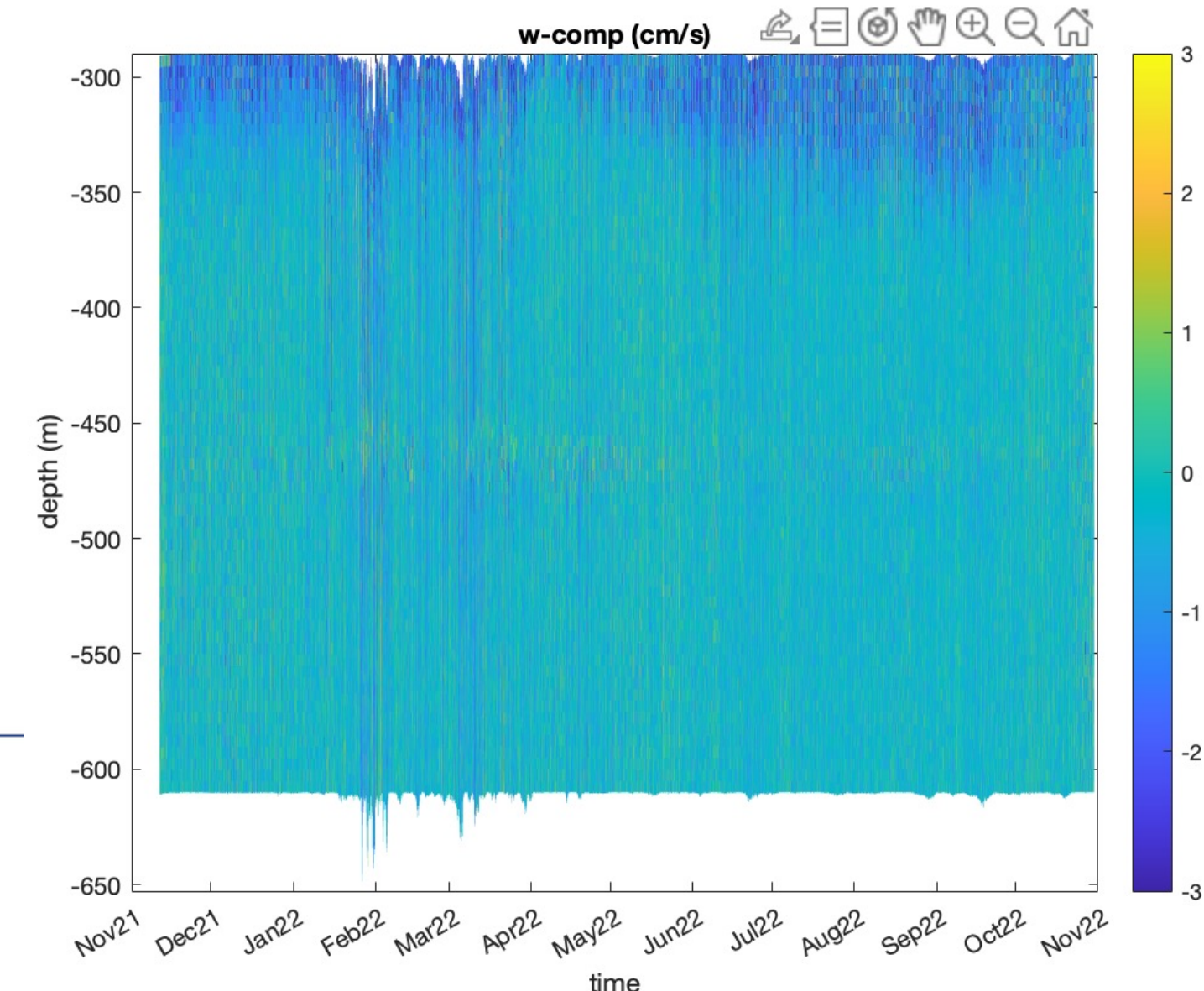
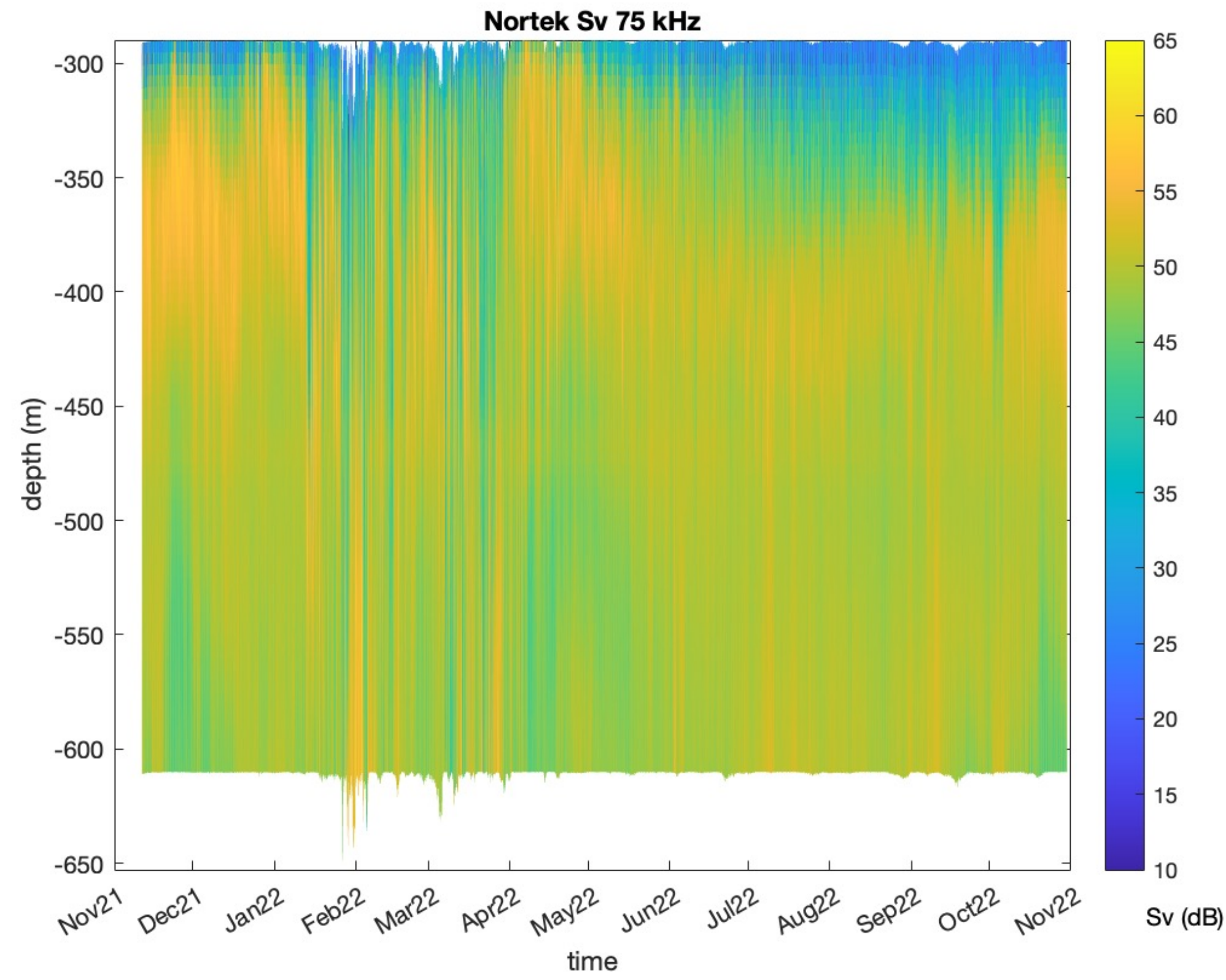
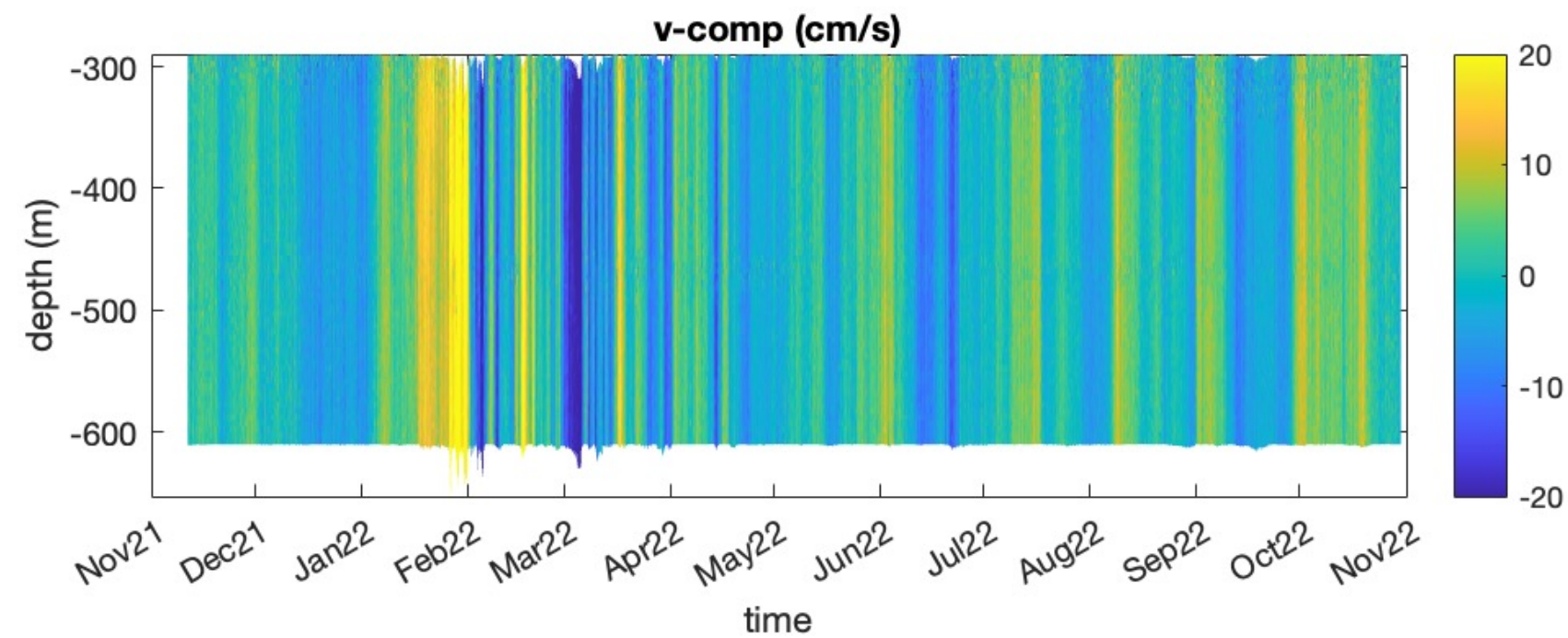
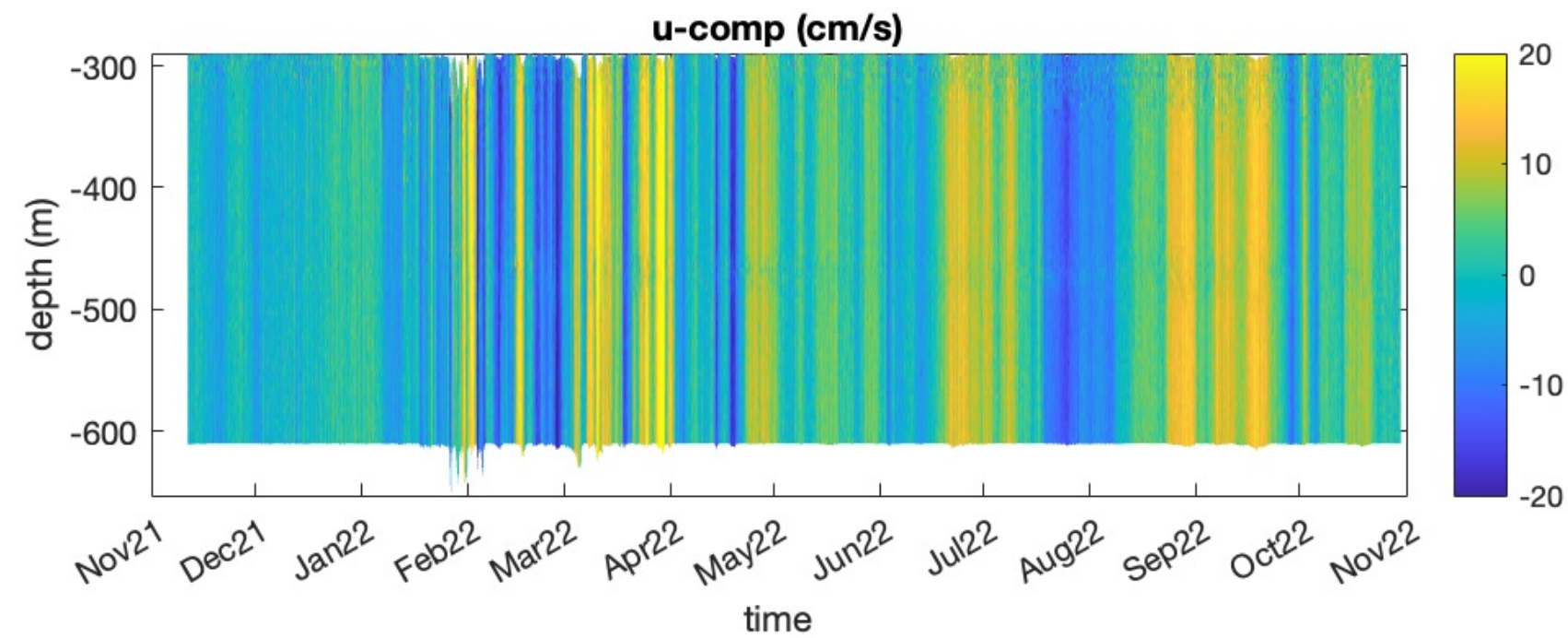


monthly NPP-mod=478 mgC/m<sup>2</sup>/day  
 monthly NPP-sat=325 mgC/m<sup>2</sup>/day  
 MLD=12 m

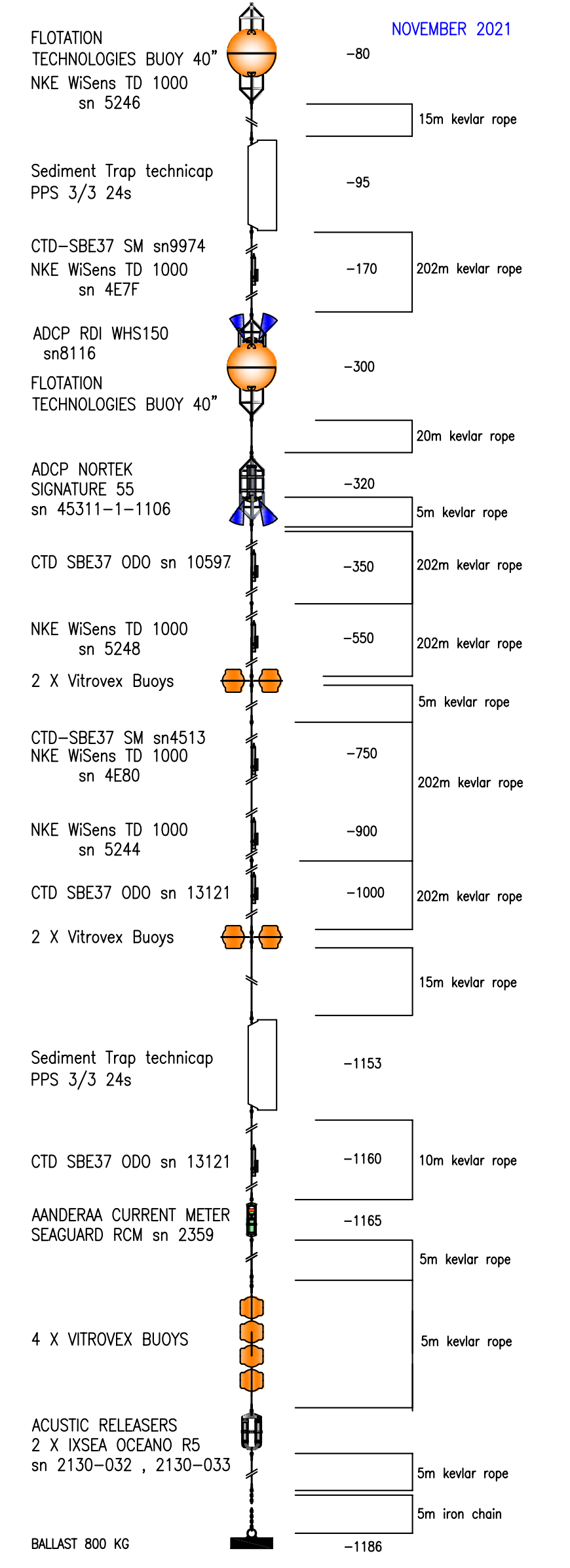
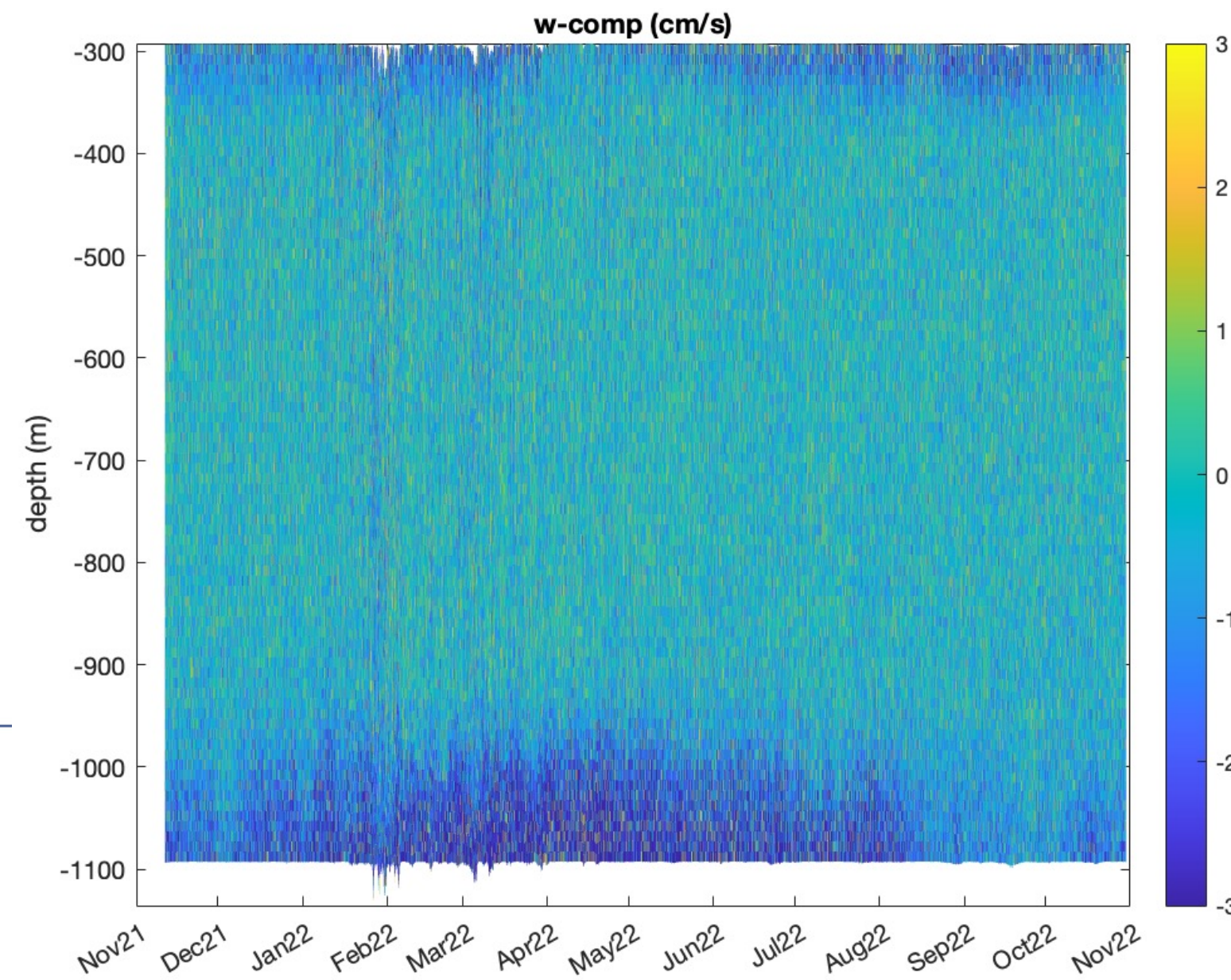
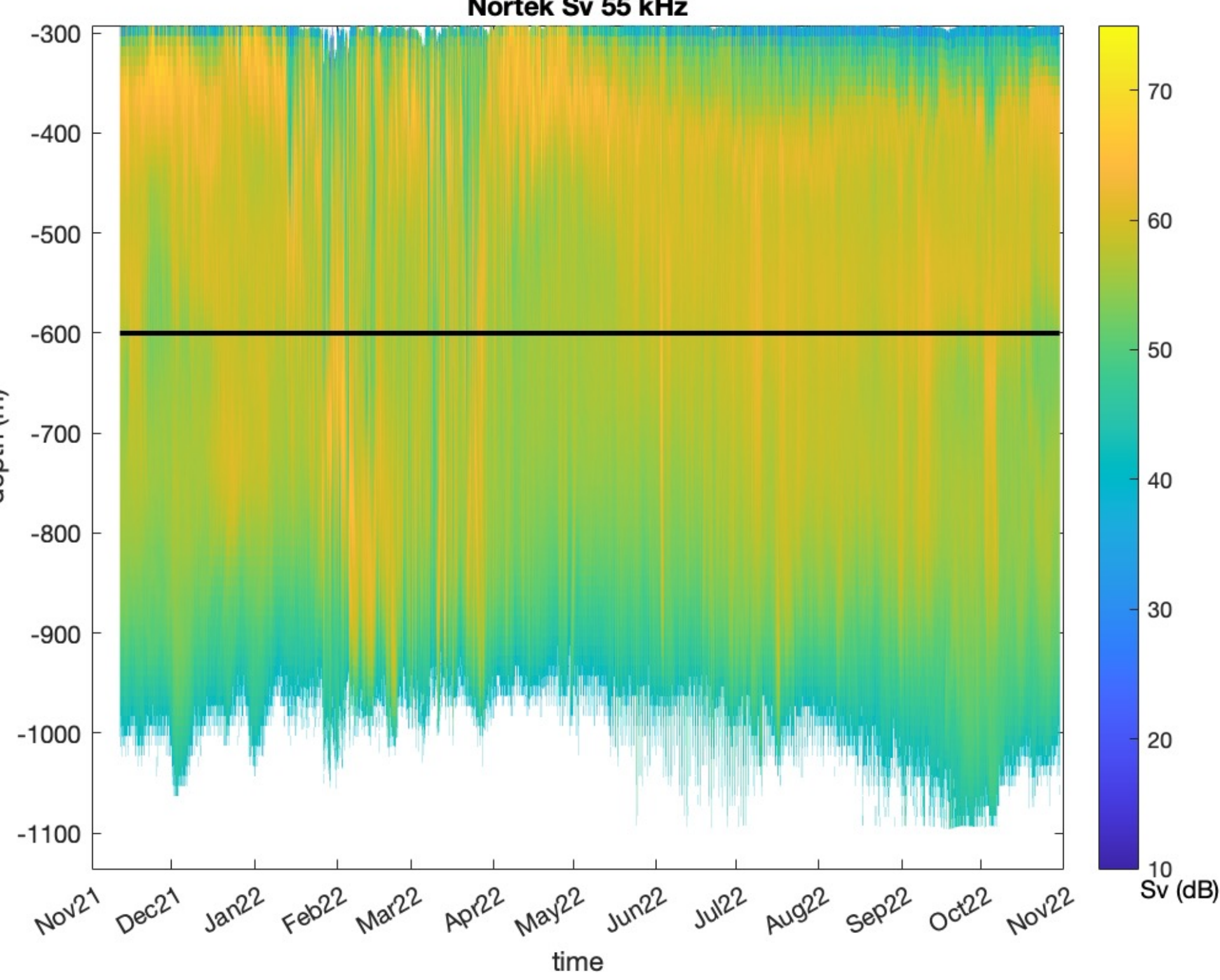
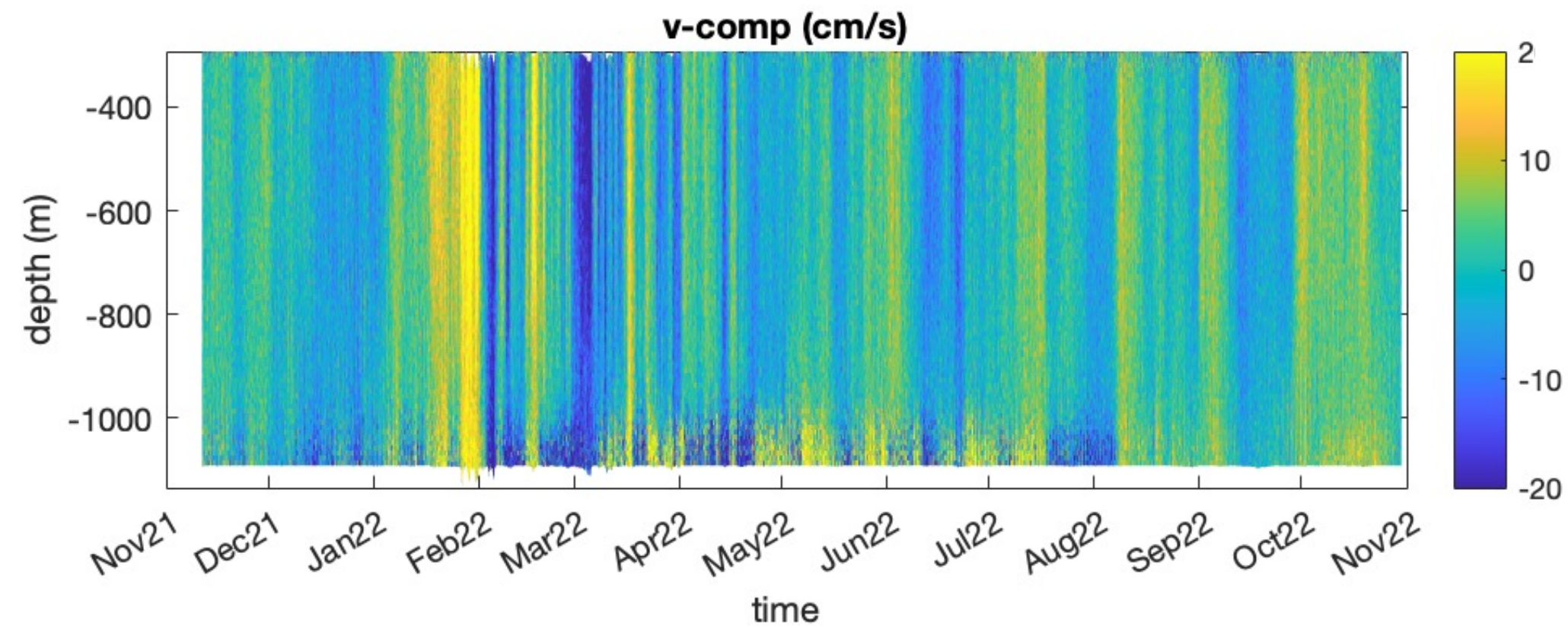
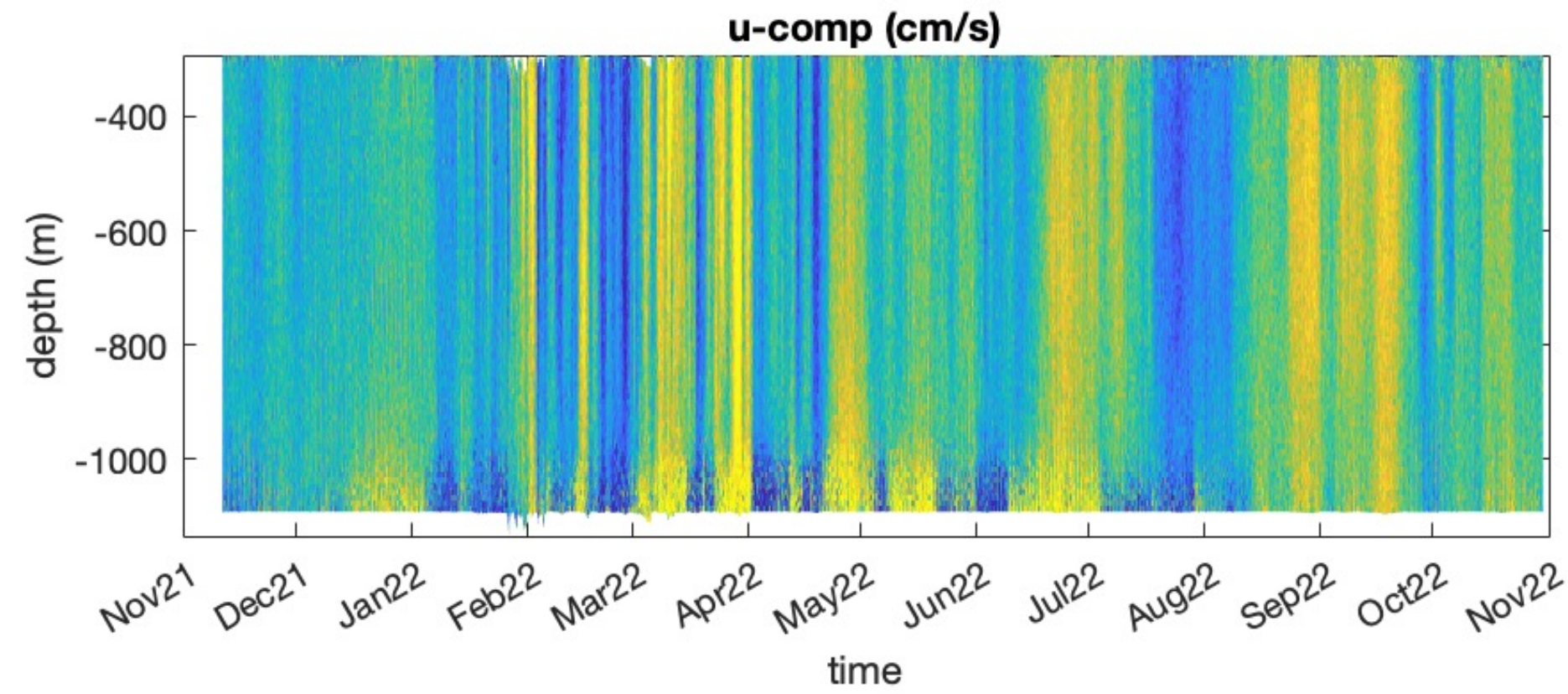


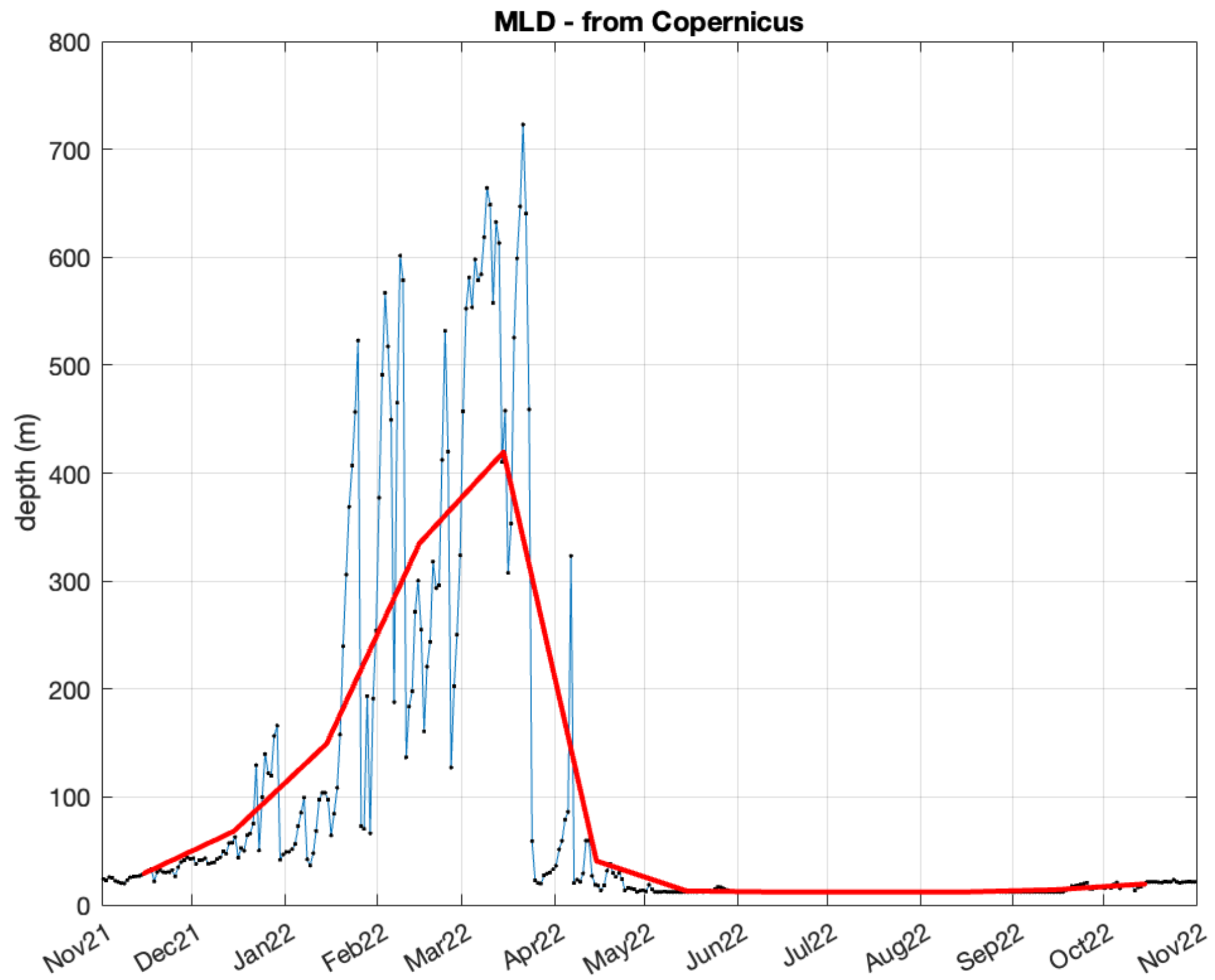
# Nortek Signature55

- 55 and 75 kHz
- Downward looking
- Depth: 285 m
- Period: november 2021-october 2022

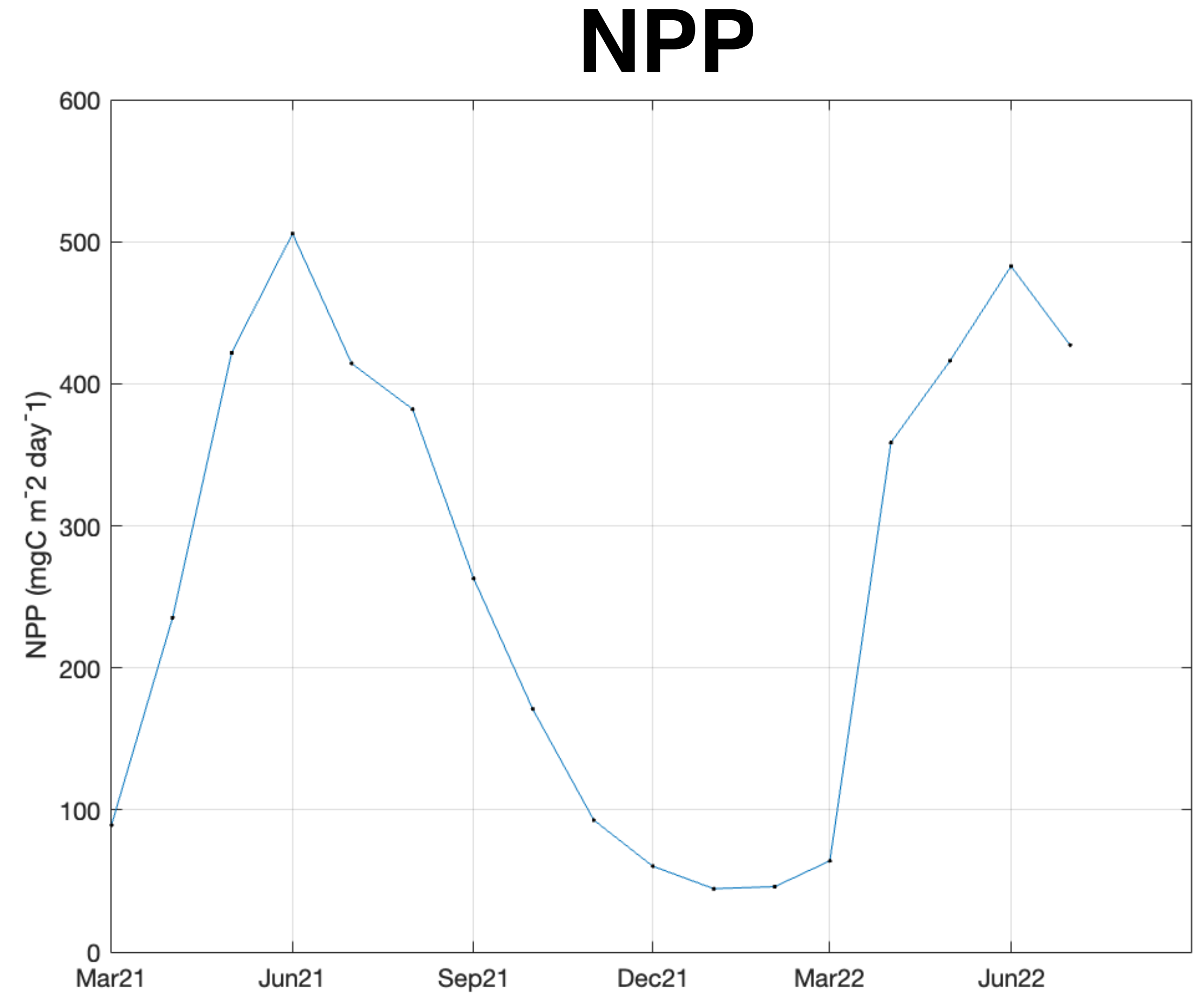


# 55 kHz

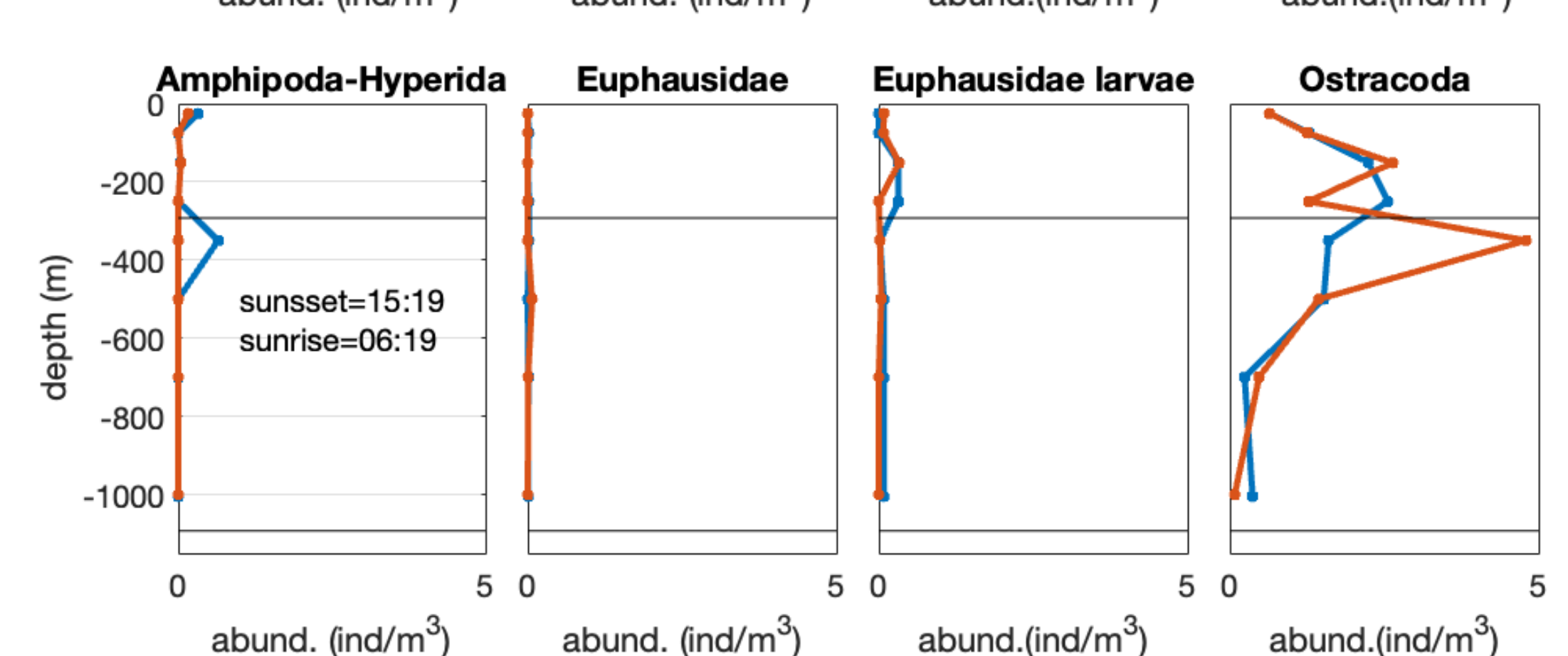
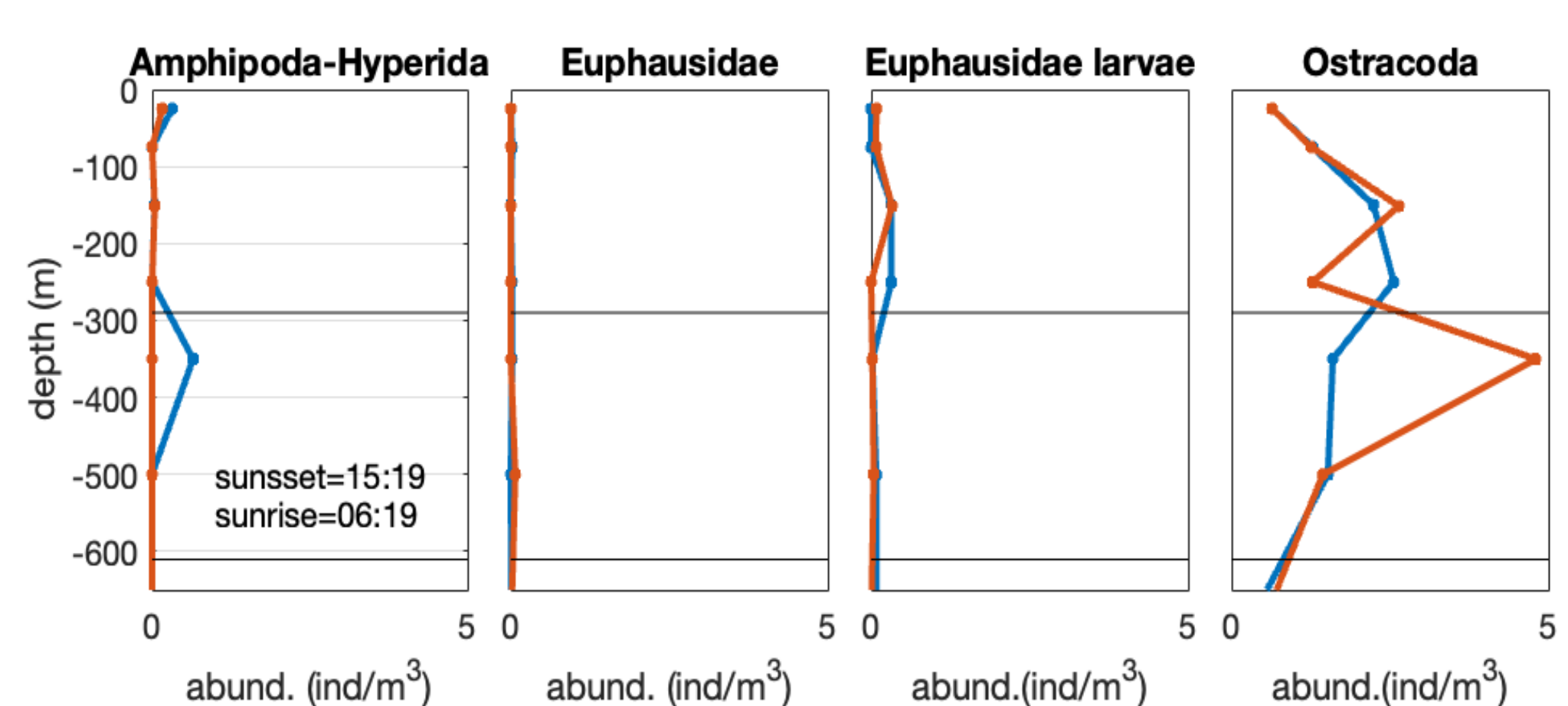
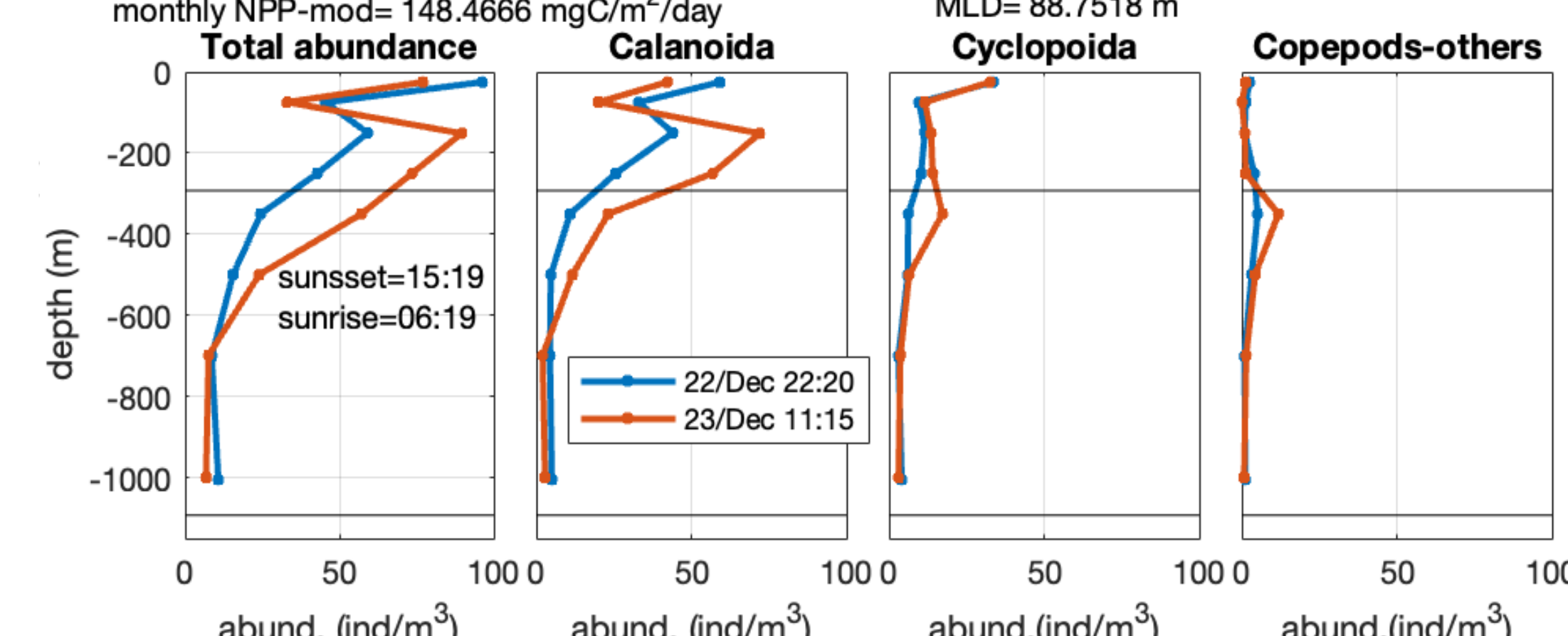
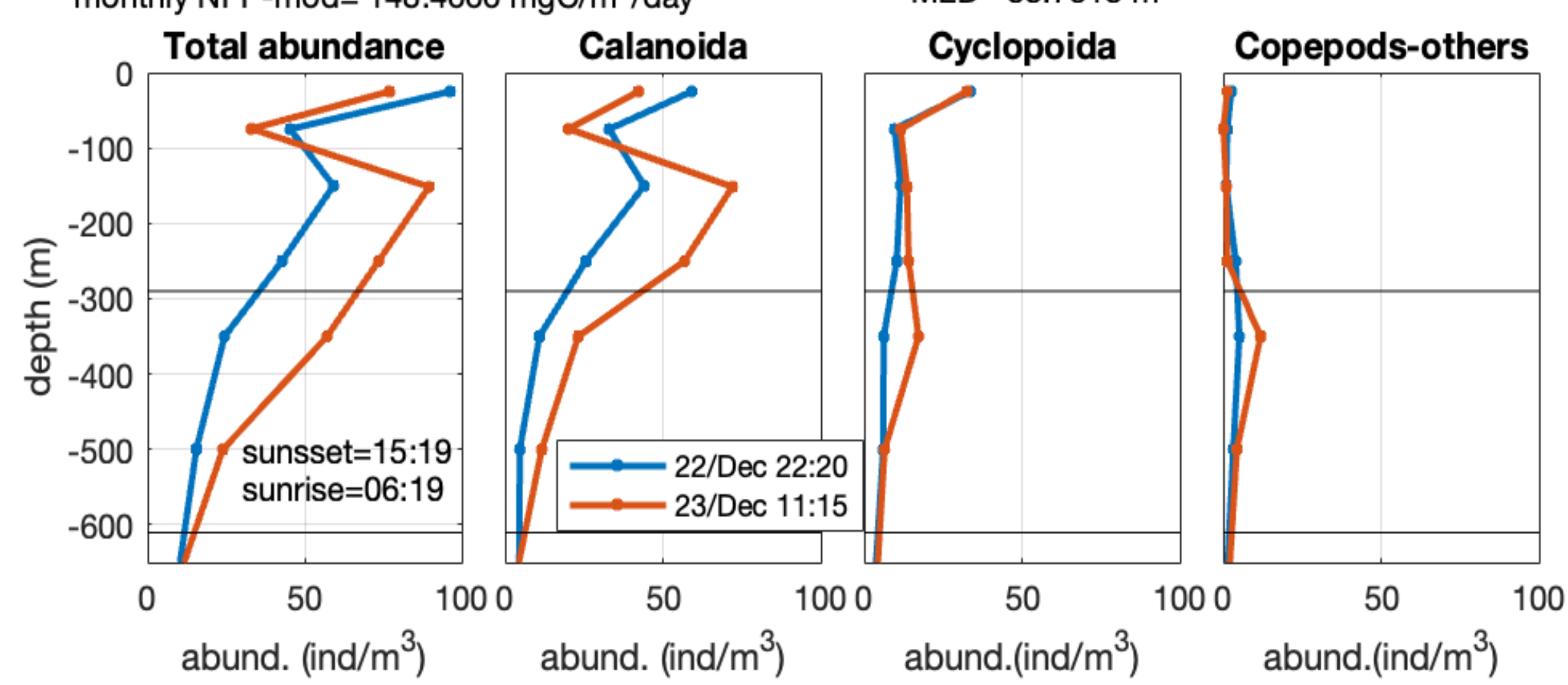
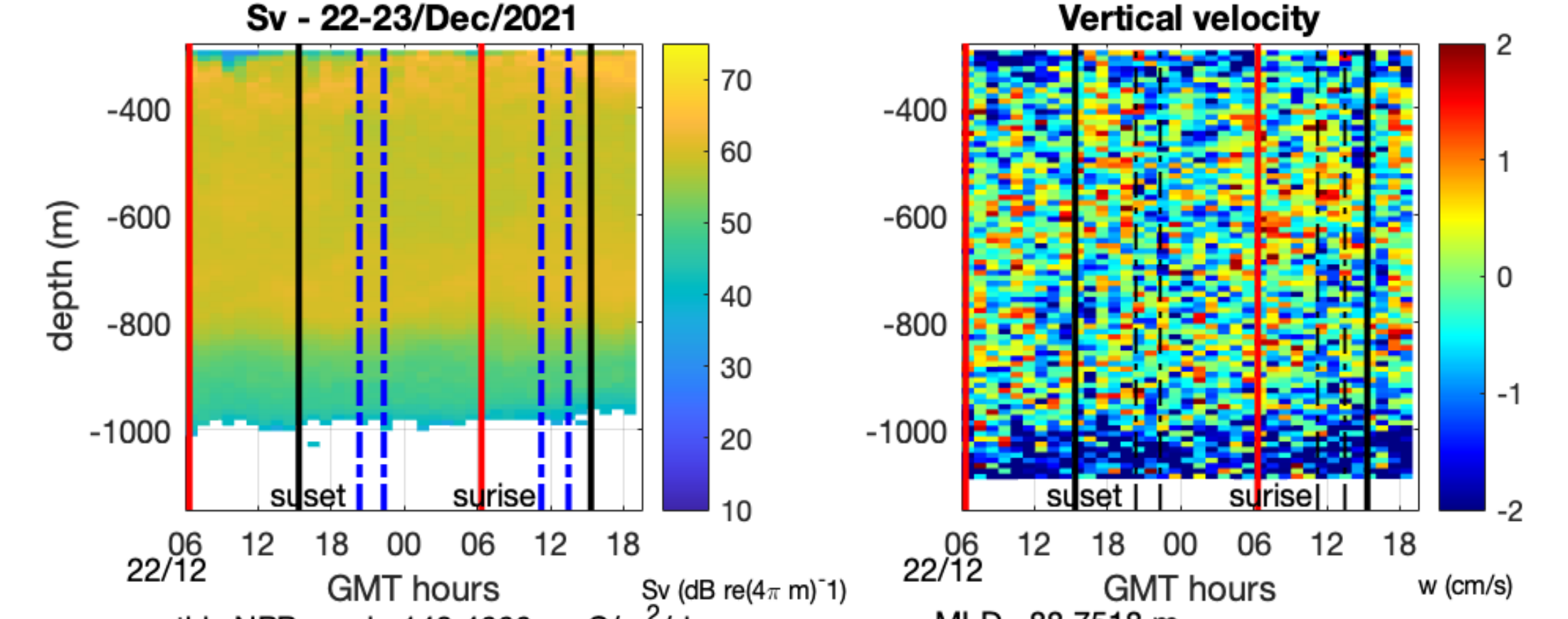
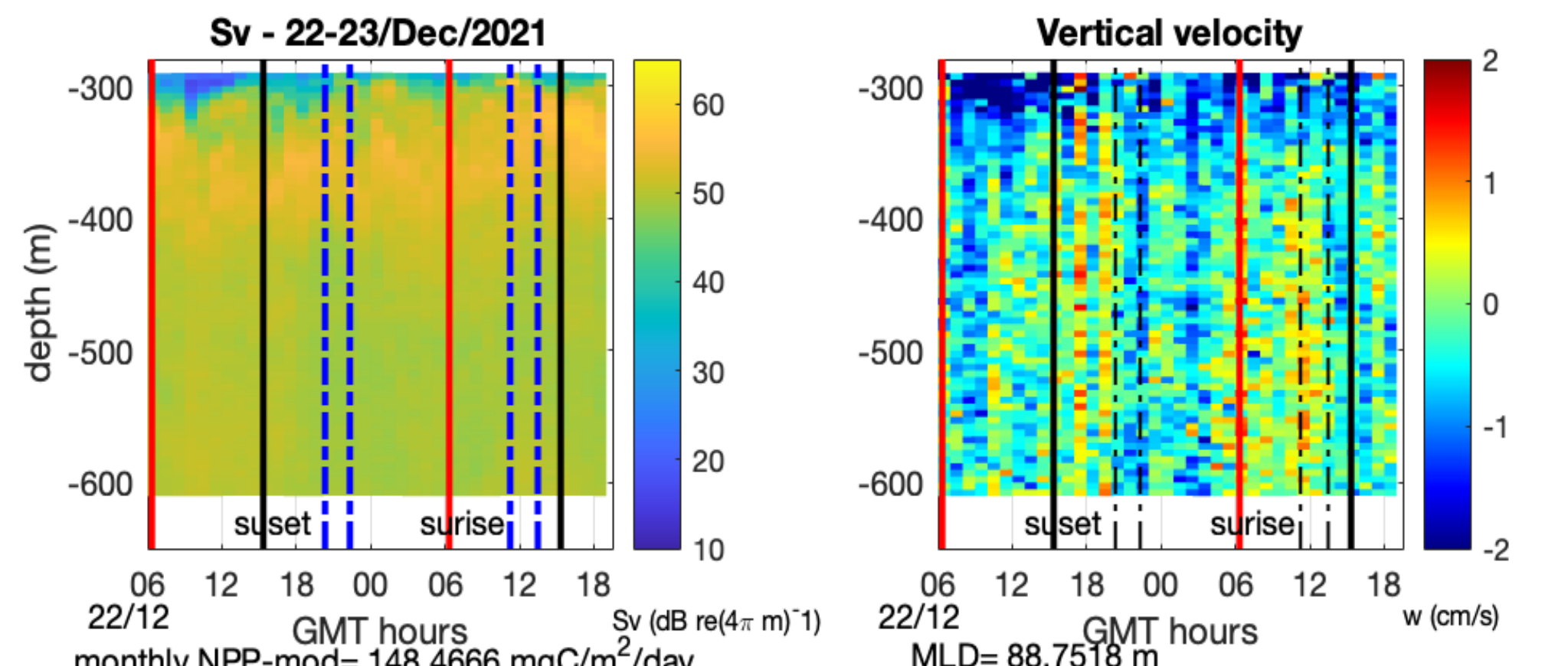




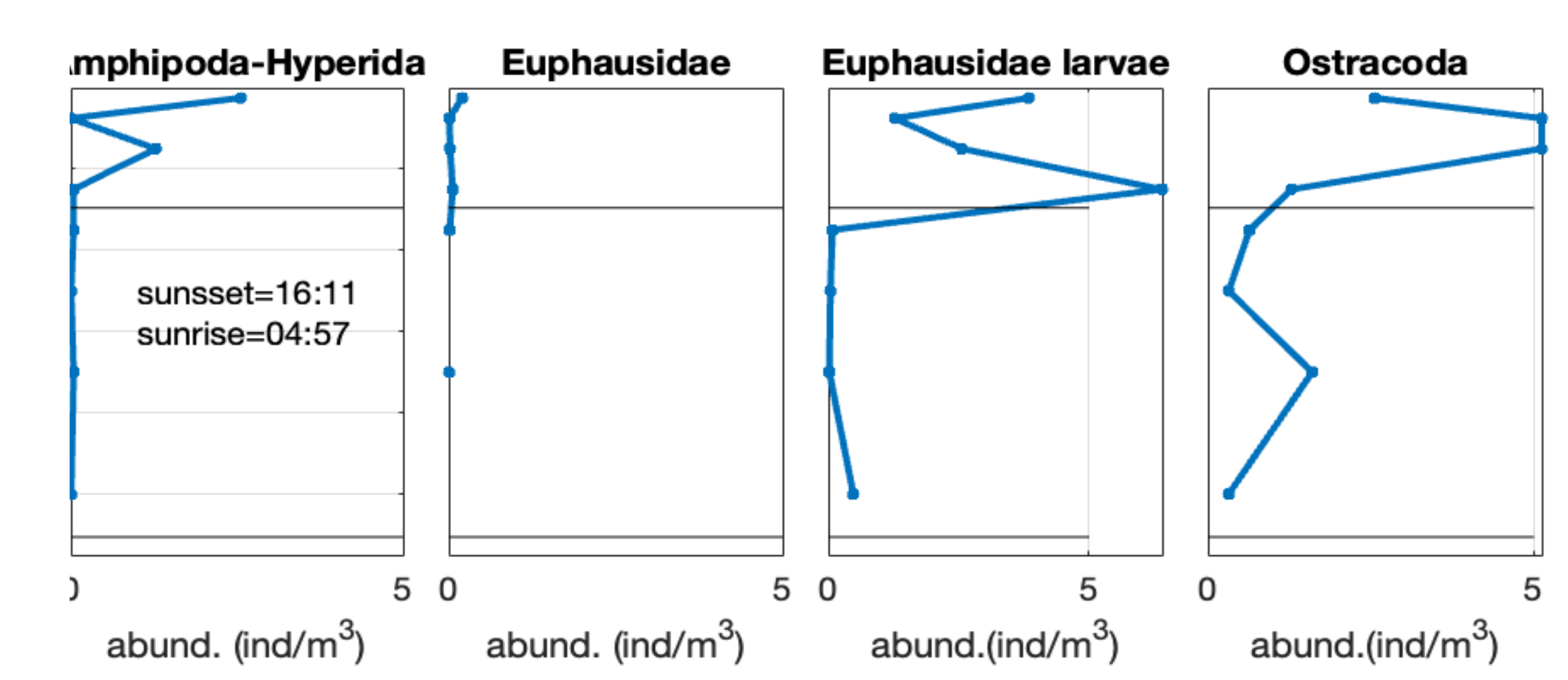
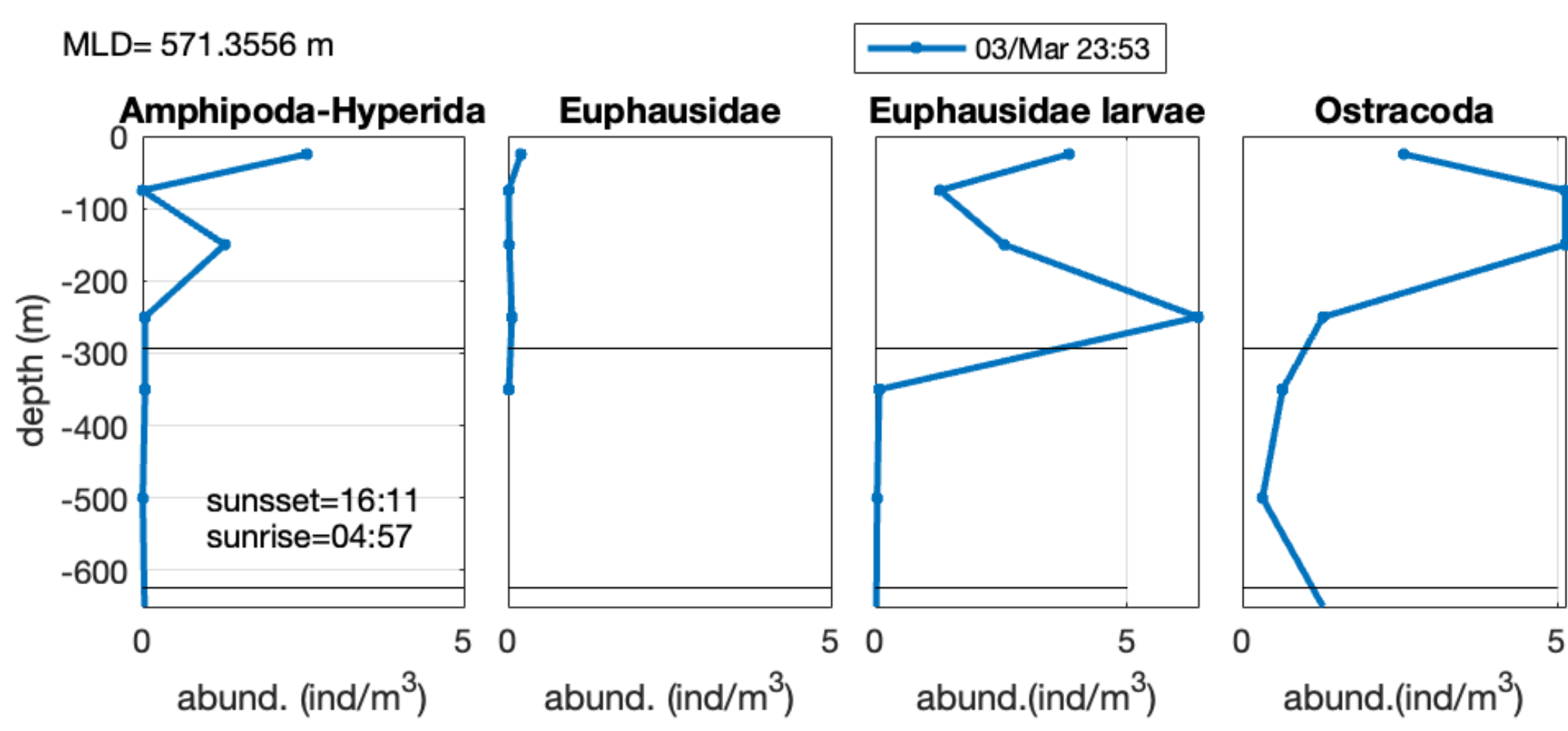
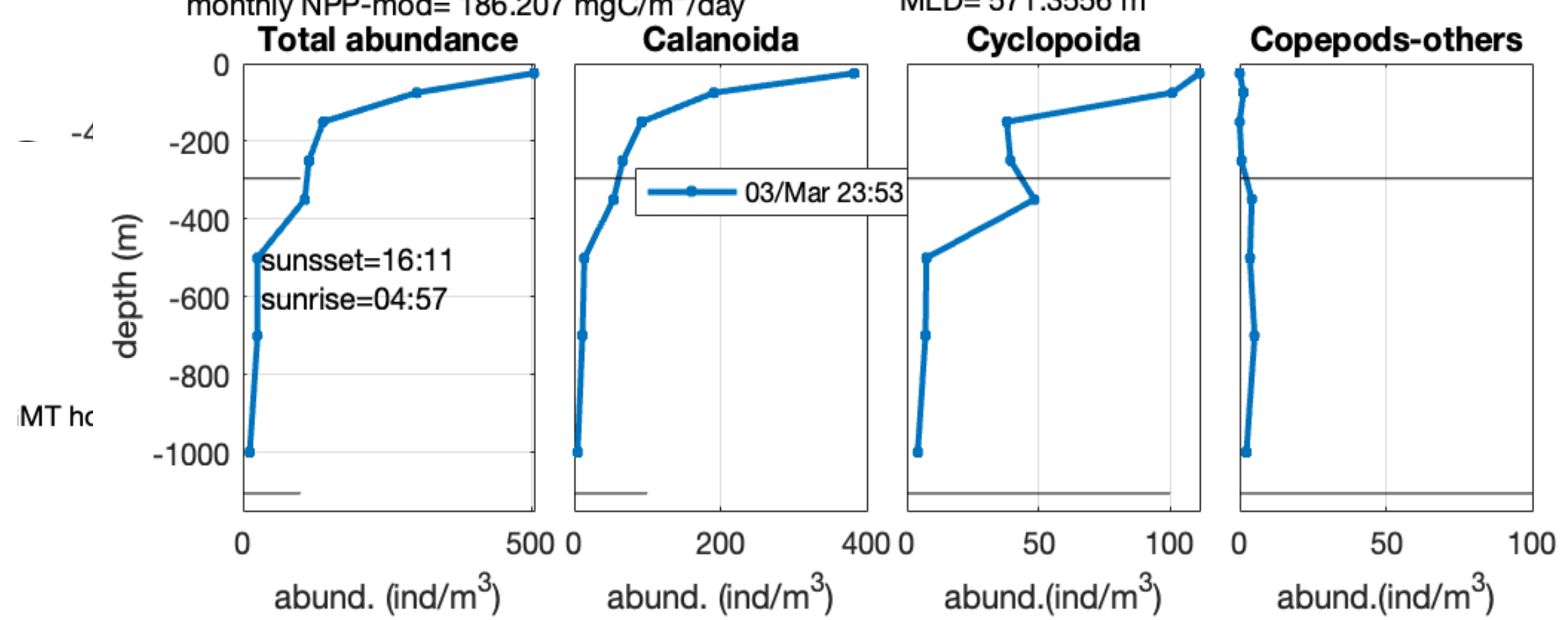
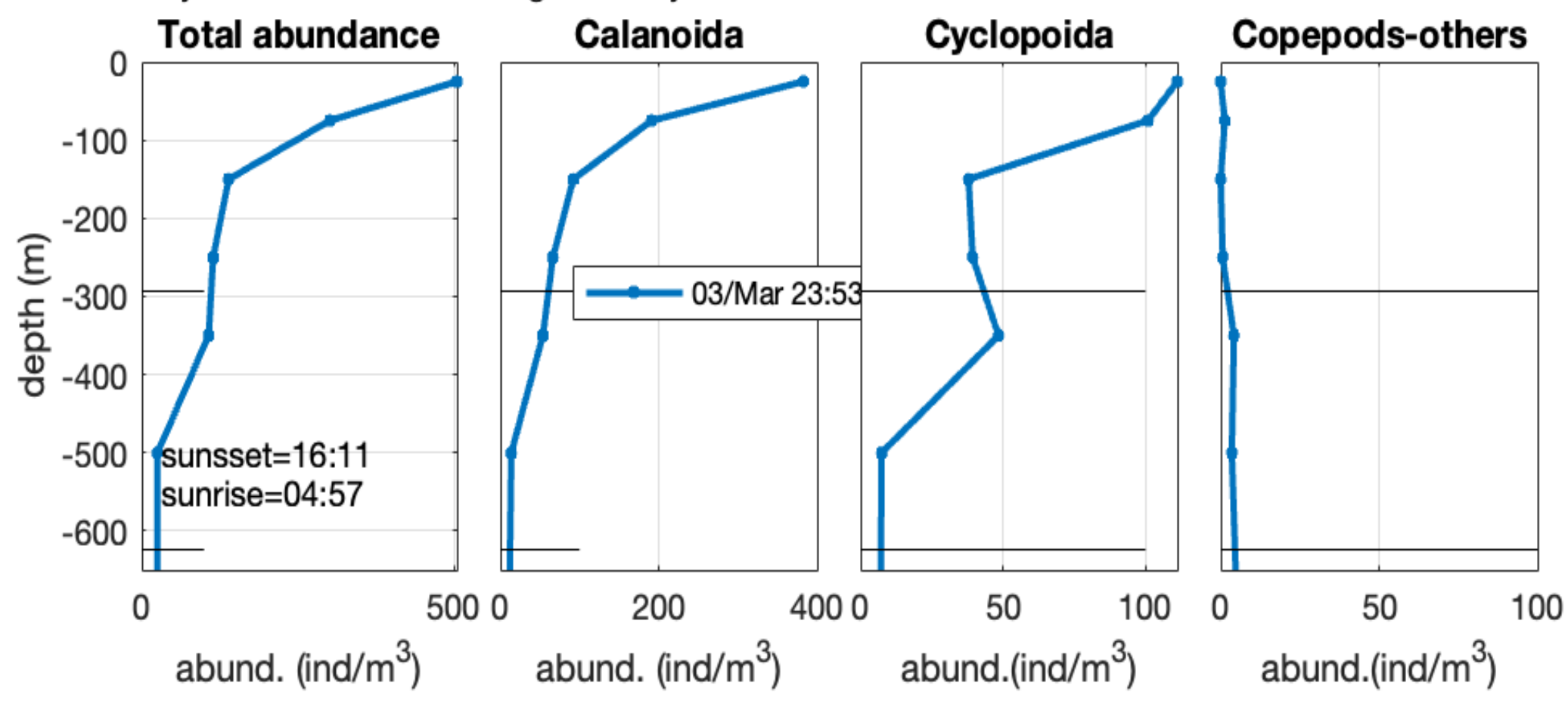
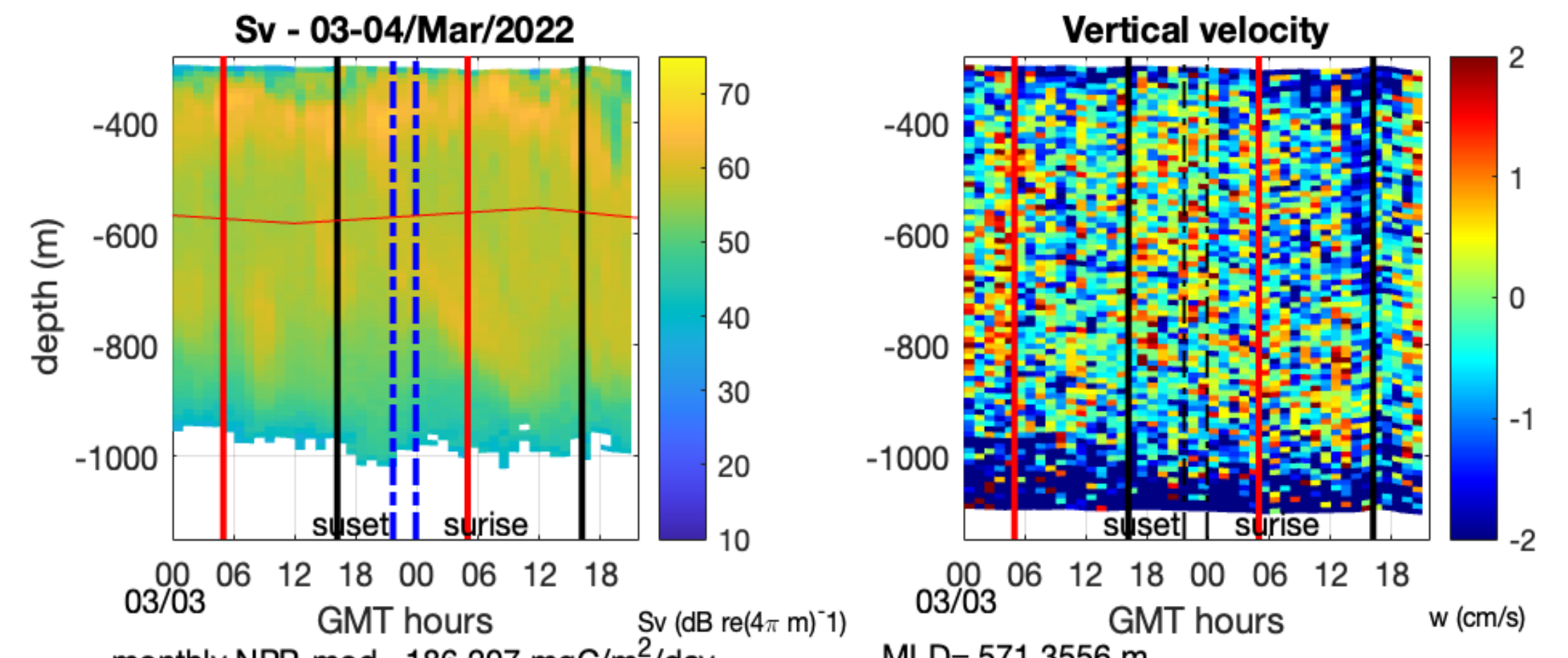
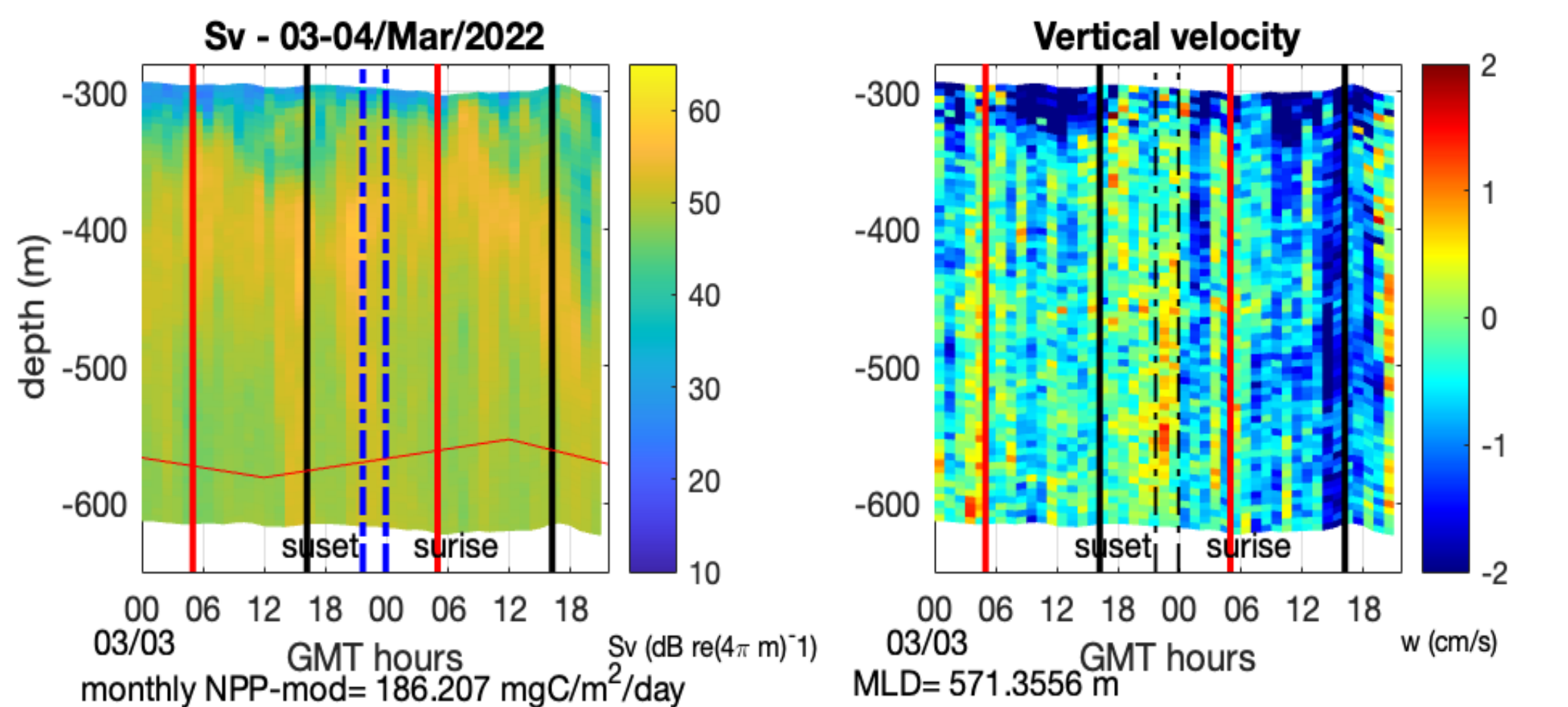
**MLD**



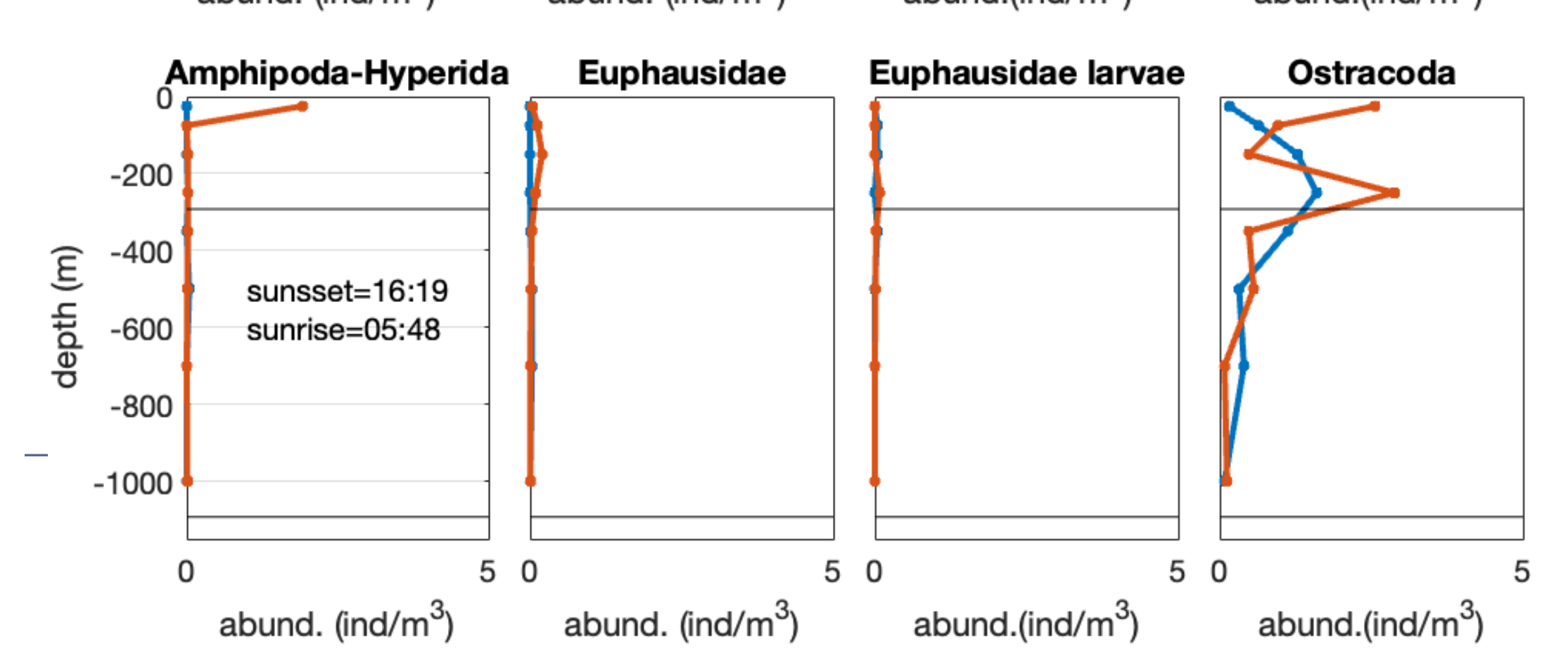
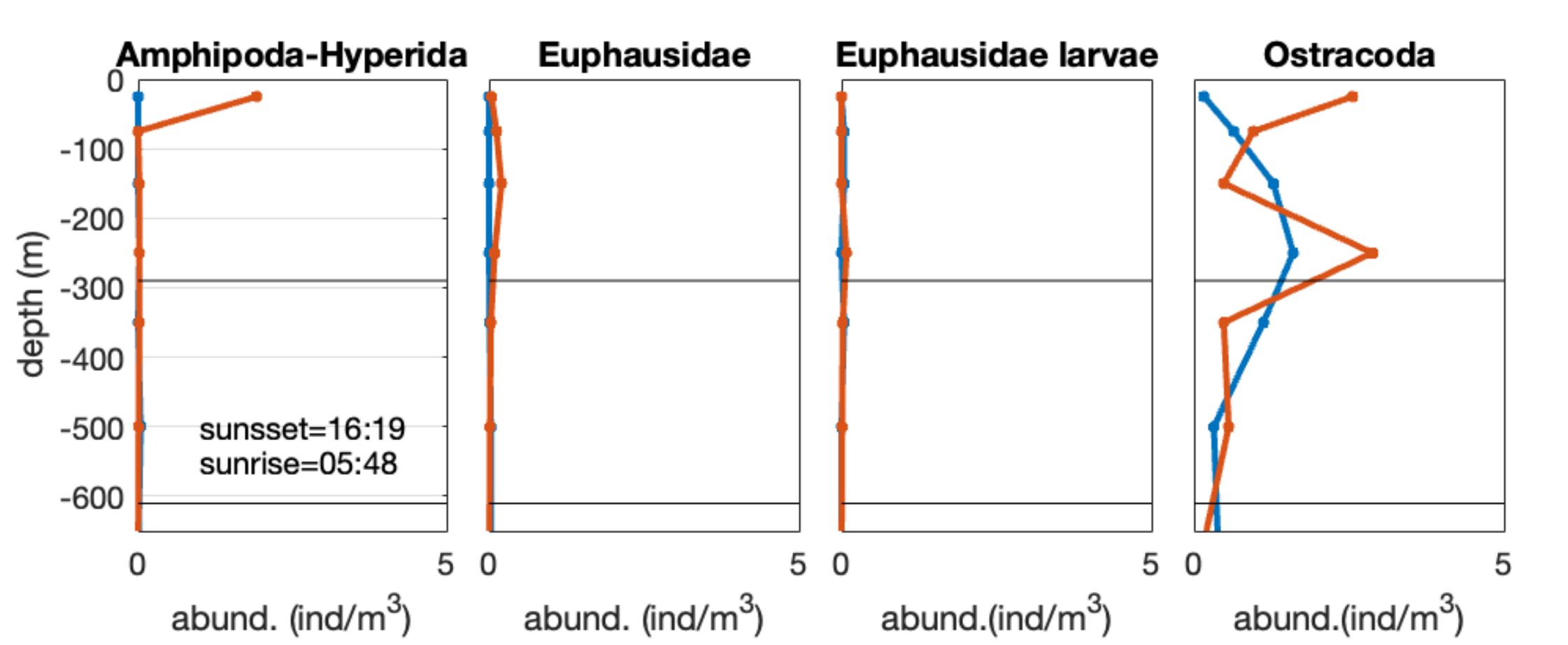
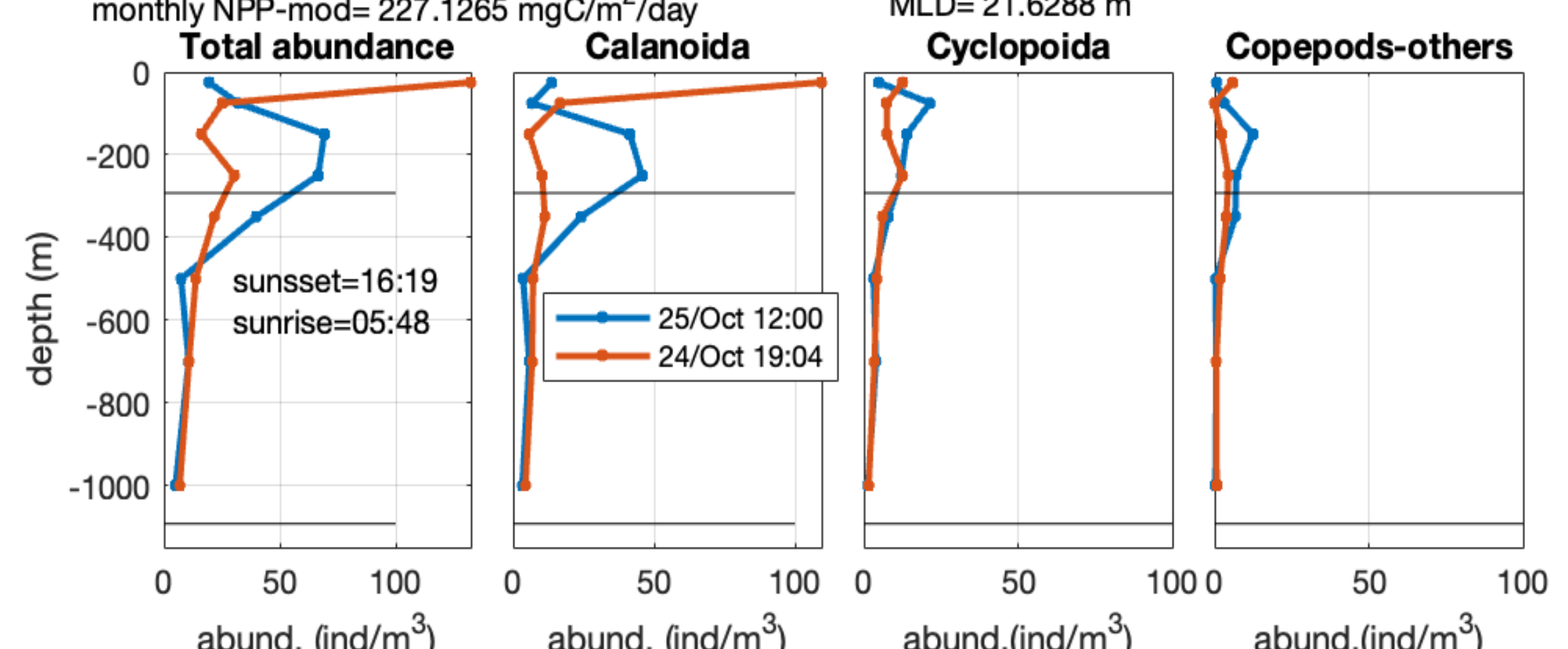
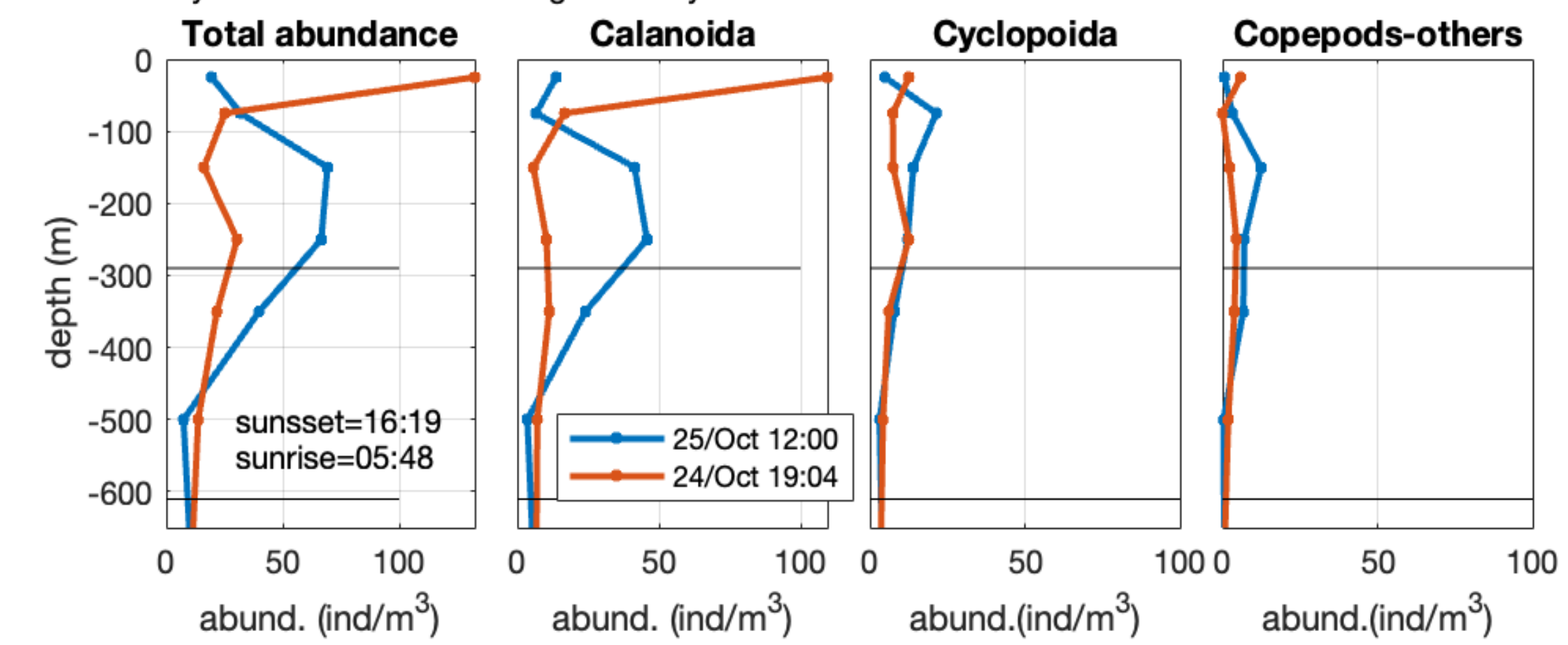
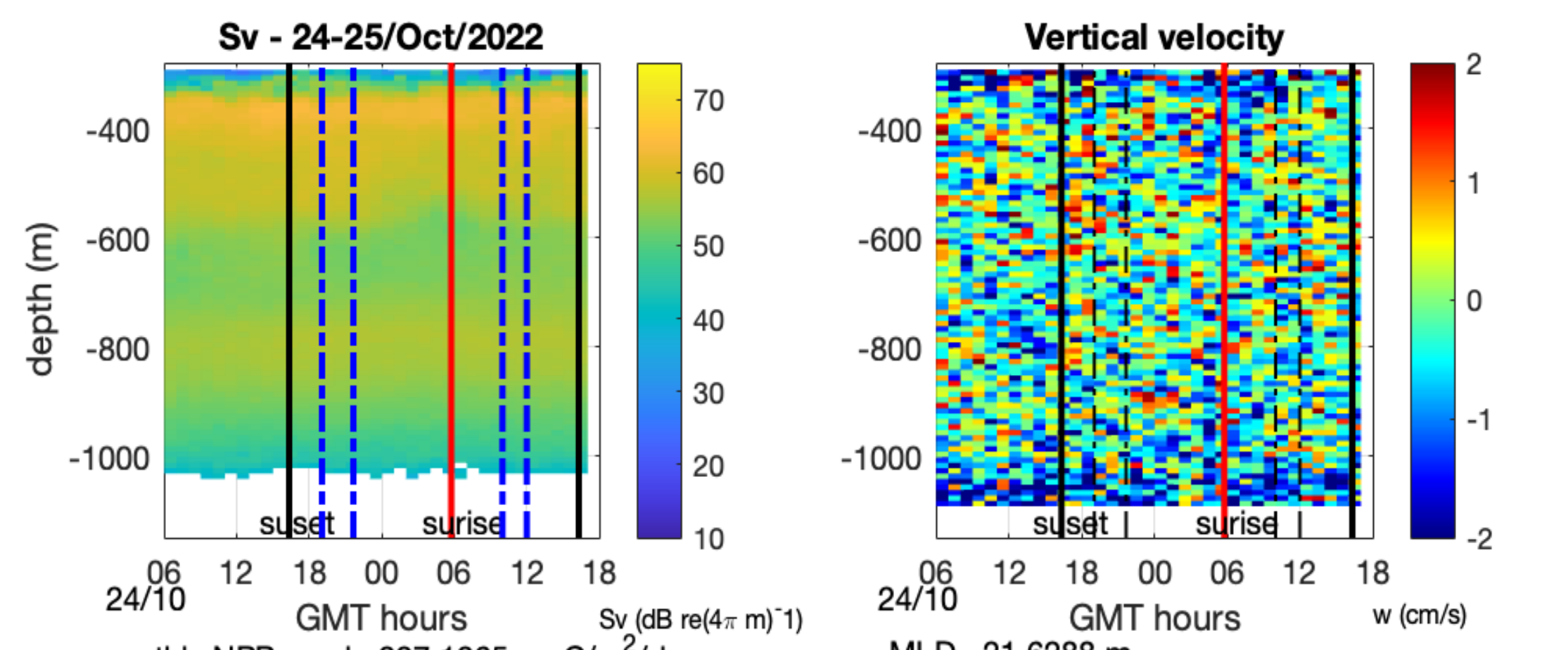
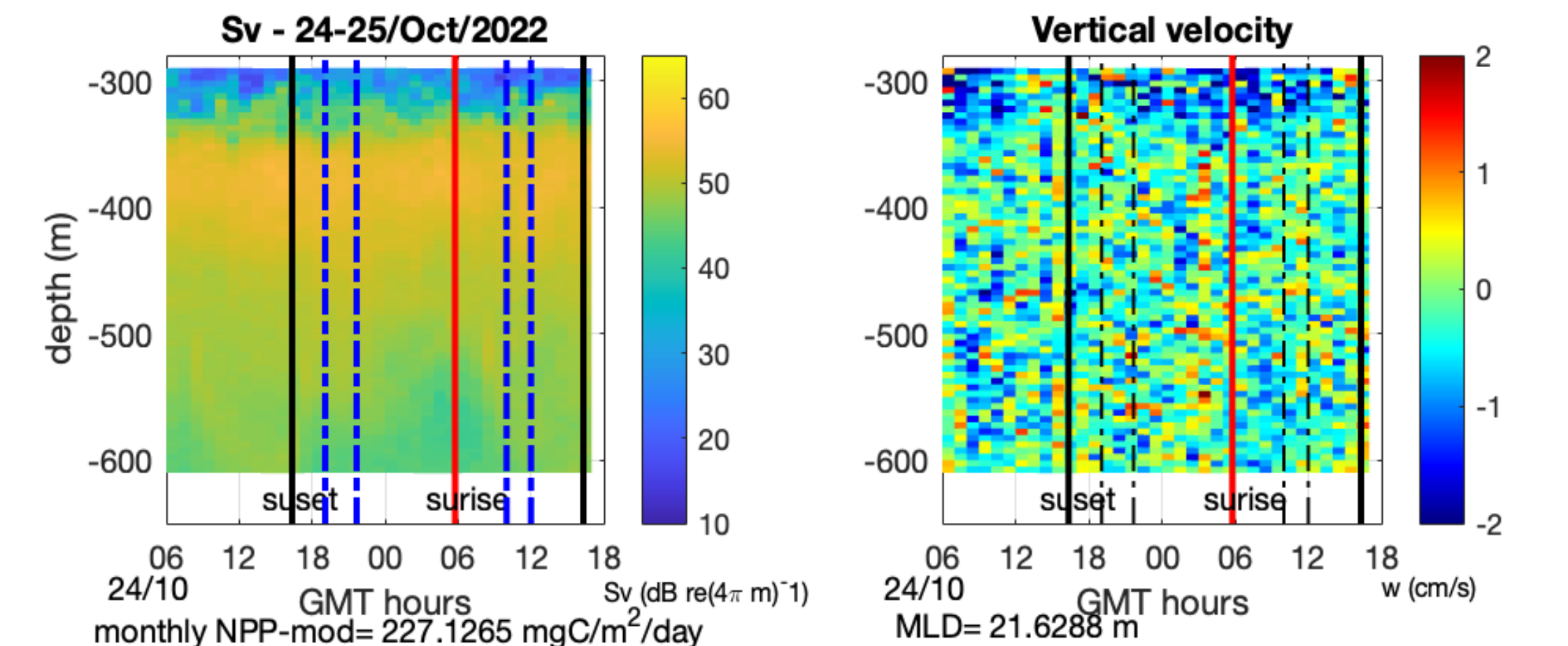




**Dec  
2021**



**March  
2022**



**Oct  
2022**