CSB on the Great Barrier Reef: Summary of Current Project

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Vessels

1.	Argo	24 m based at Cairns
2.	Aroona	22 m based at Cairns
3.	Gundoo Spirit	14 m based at North Keppel Island
4.	Sharpshooter	22 m based at Cairns
5.	Zostera	4.2 m based at Brisbane
6.	Serrata	7.9 m based at Brisbane
7.	Spoilsport	20 m based at Cairns
8.	Flying Fish V	23 m based at Cairns
9.	Charlie1	4.2 m based at Cairns

Vessels

ARGO
EXPEDITIONS
ARGO

Gundoo Spirit

prinsmarine
Westcoaster 72
MAFJ-1

SPOILSPORT

Plotters

Raymarine
21.1

FURUNO

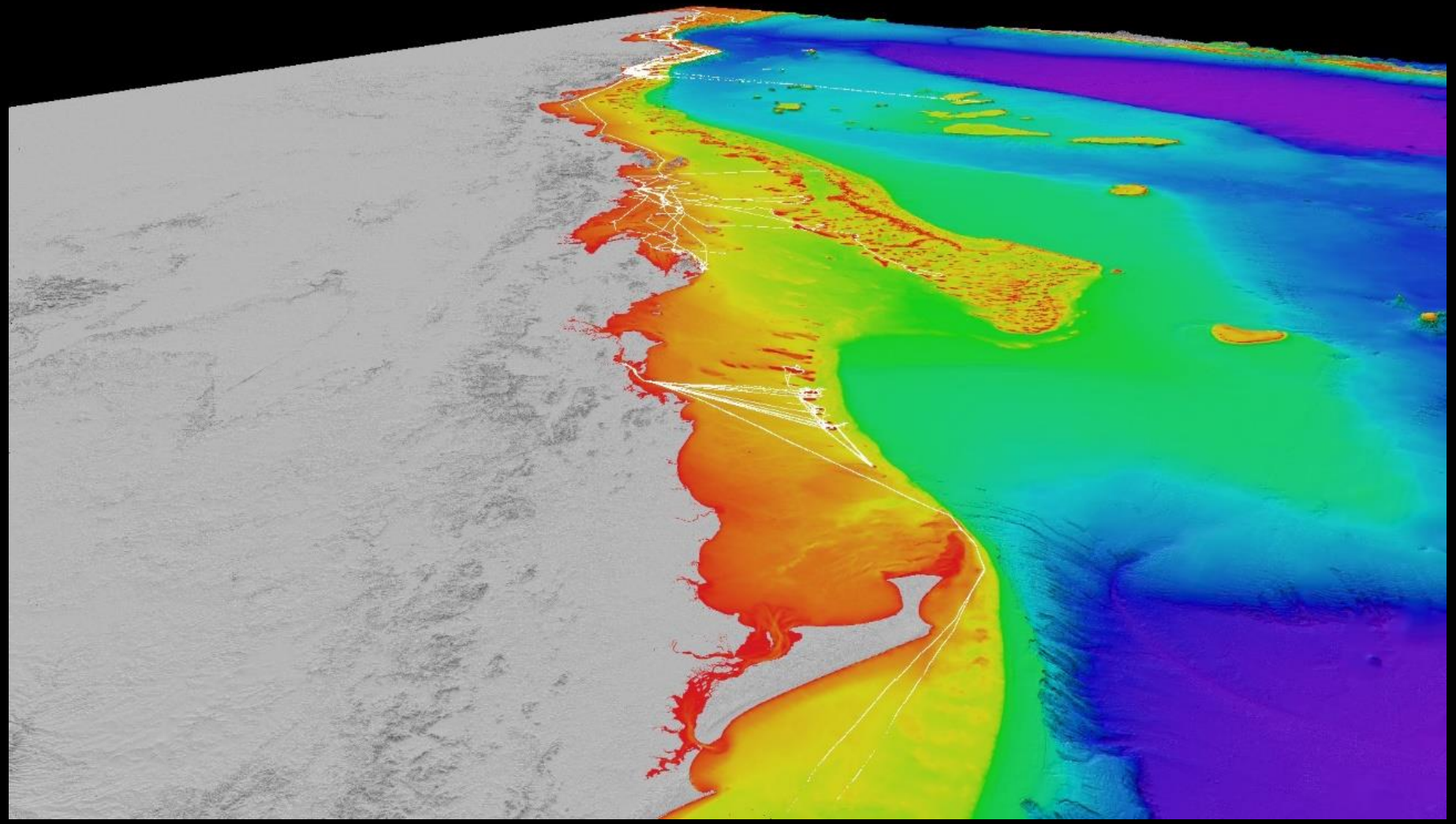
FURUNO
200k
26.4V
20.9
FCV-585
Zoom

10.2
214
65.0
GARMIN

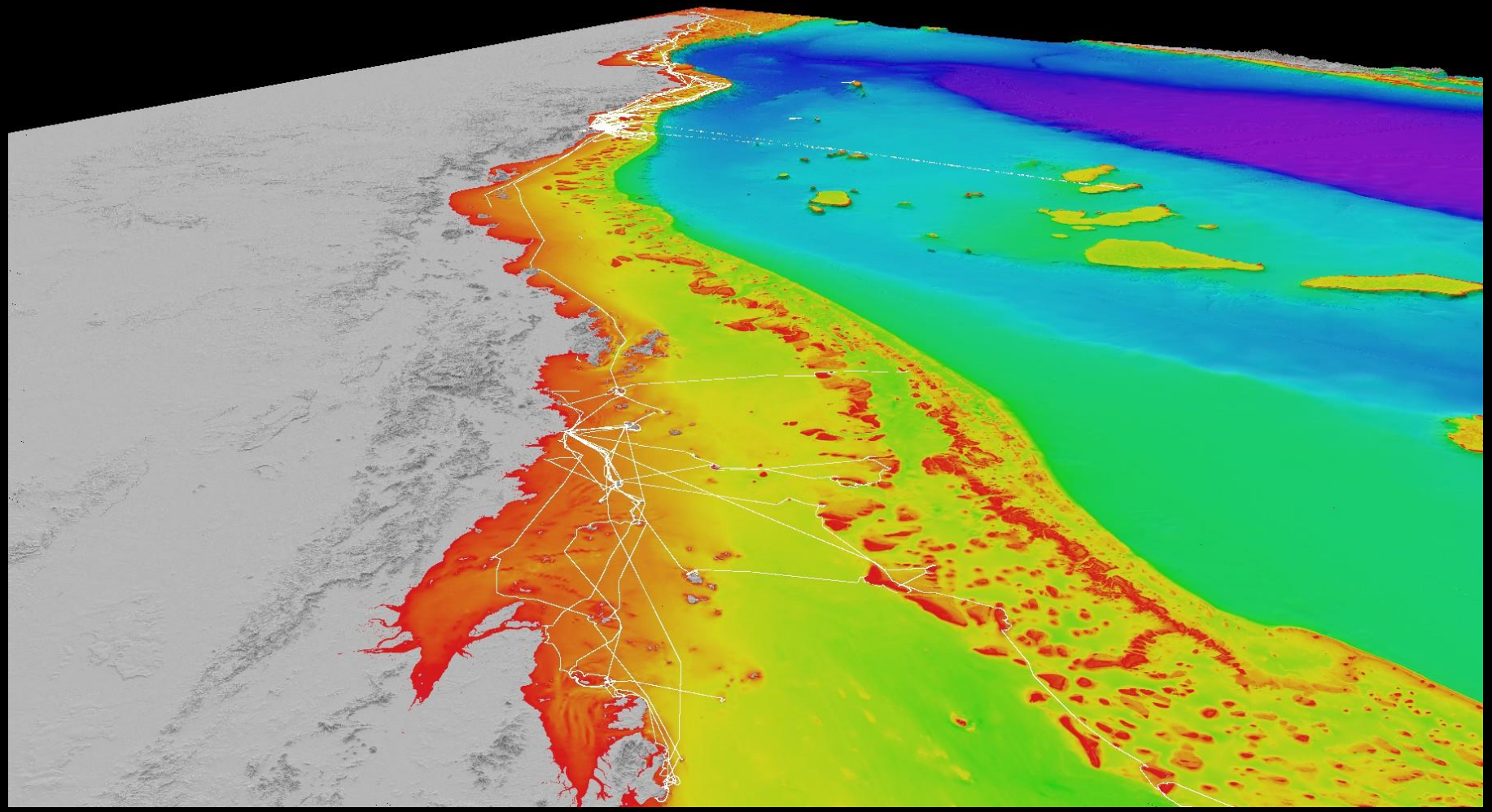
GARMIN

GARMIN

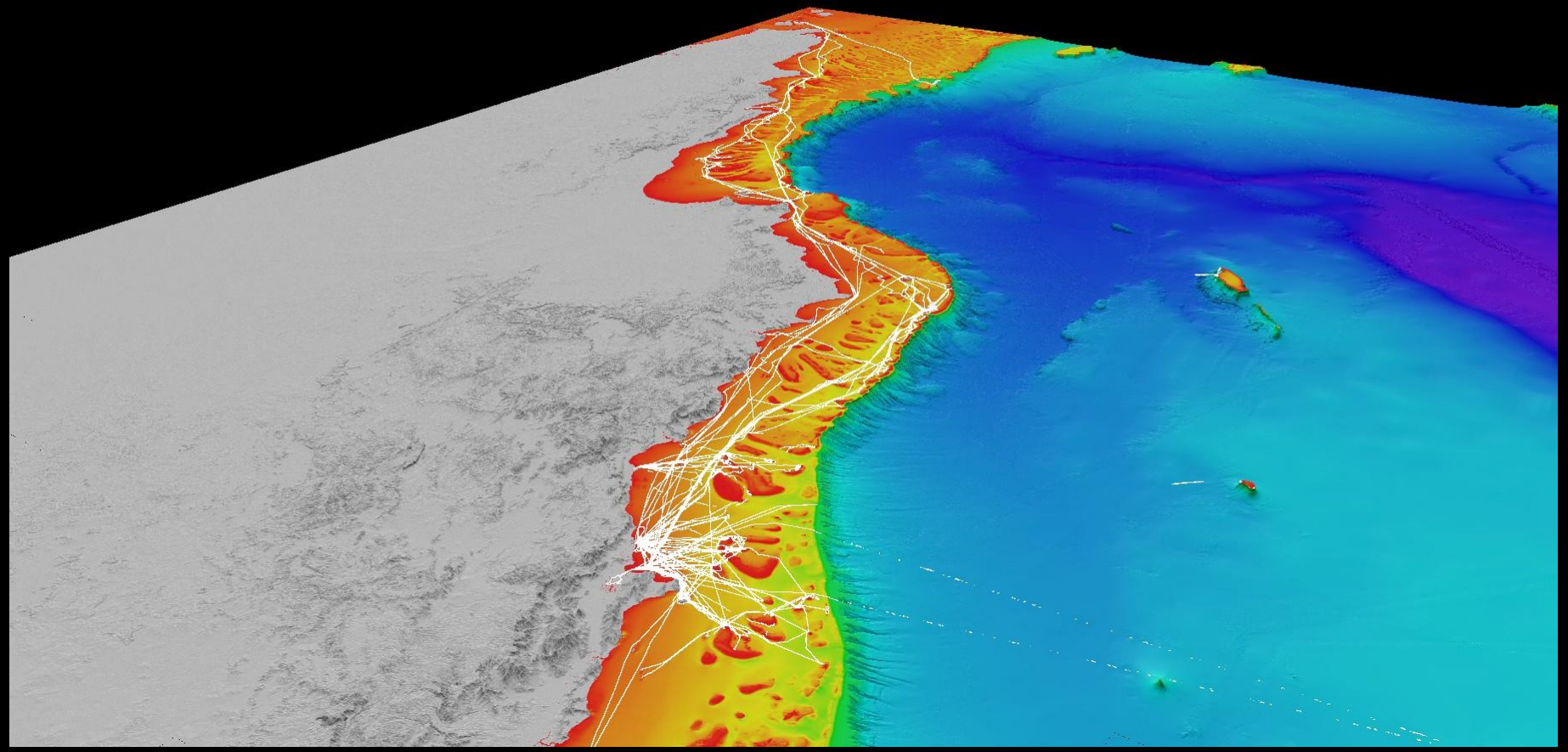
2020-21 southern GBR



2020-21 central GBR



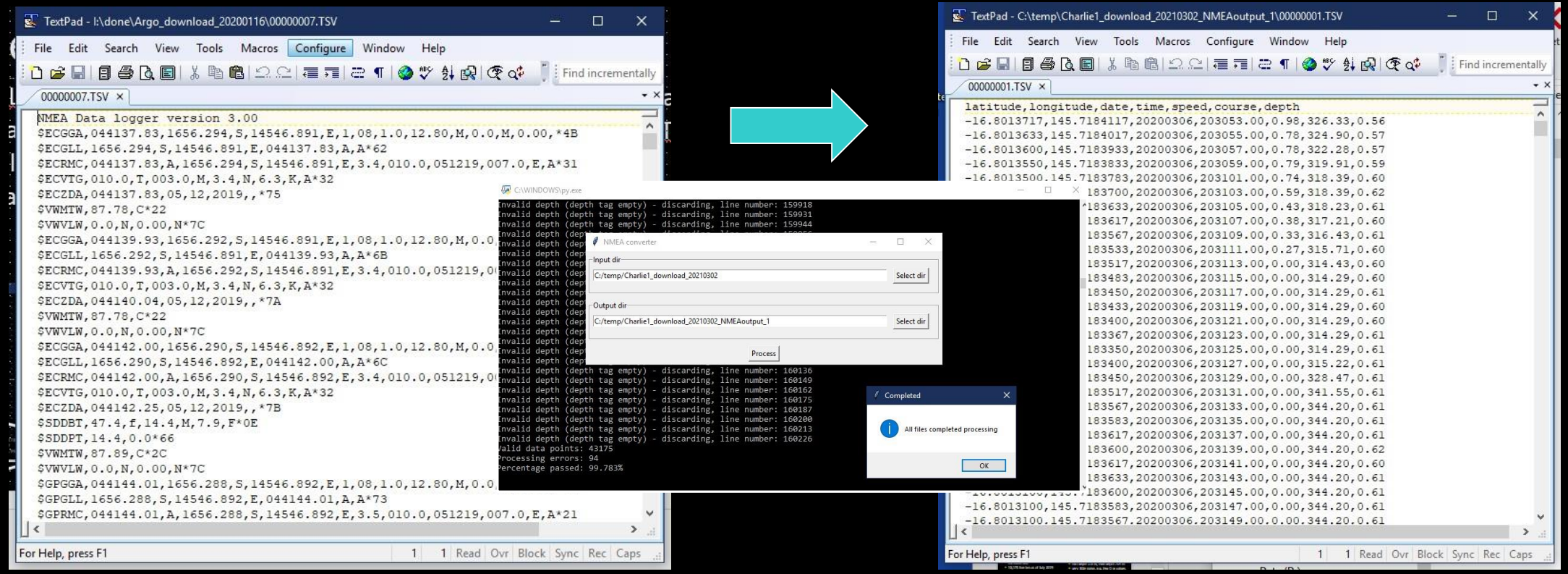
2020-21 northern GBR



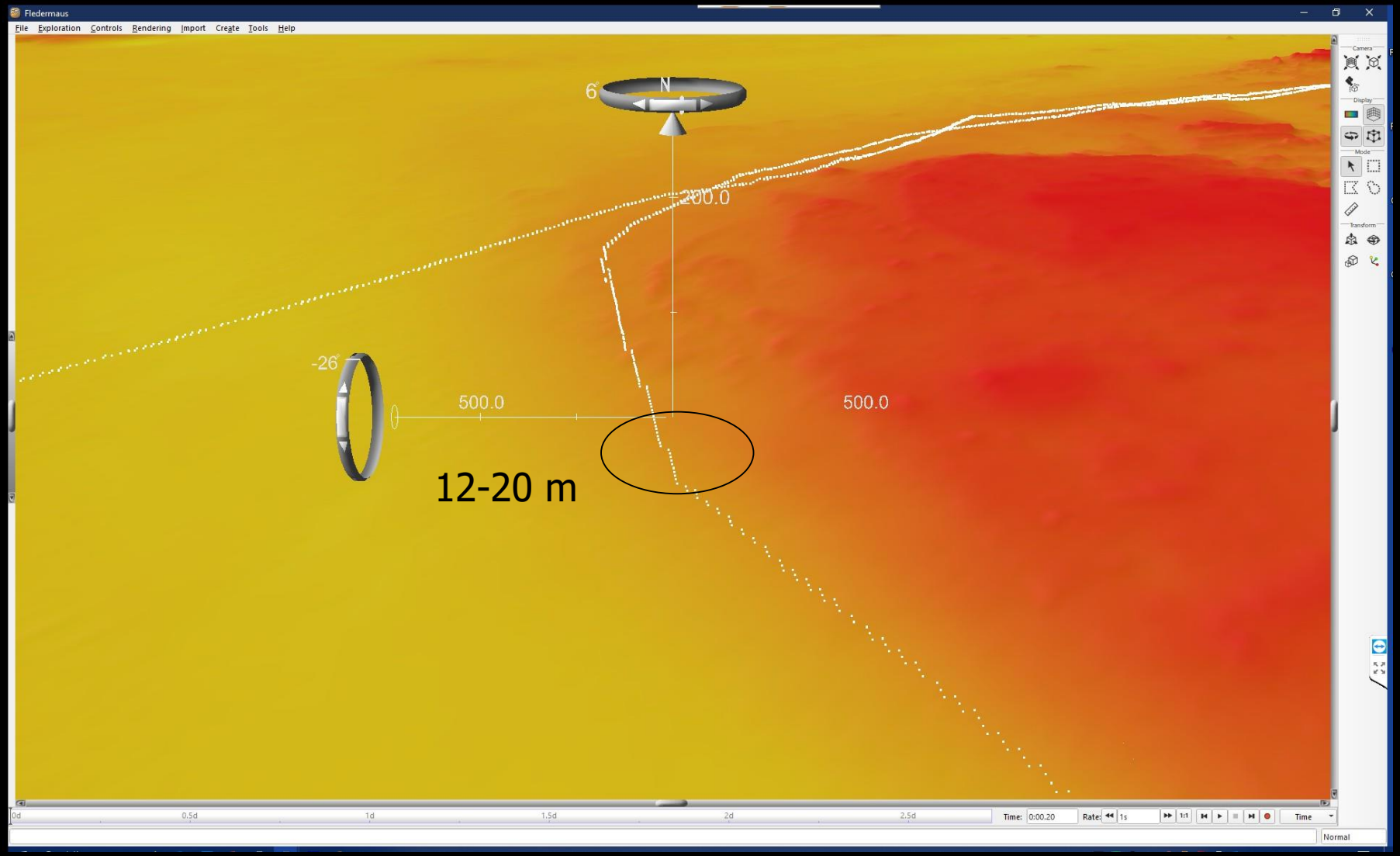
Python processing

- SmartLog data logger stores .TSV files
- raw data are NMEA strings
- can have wrong dates, missing values

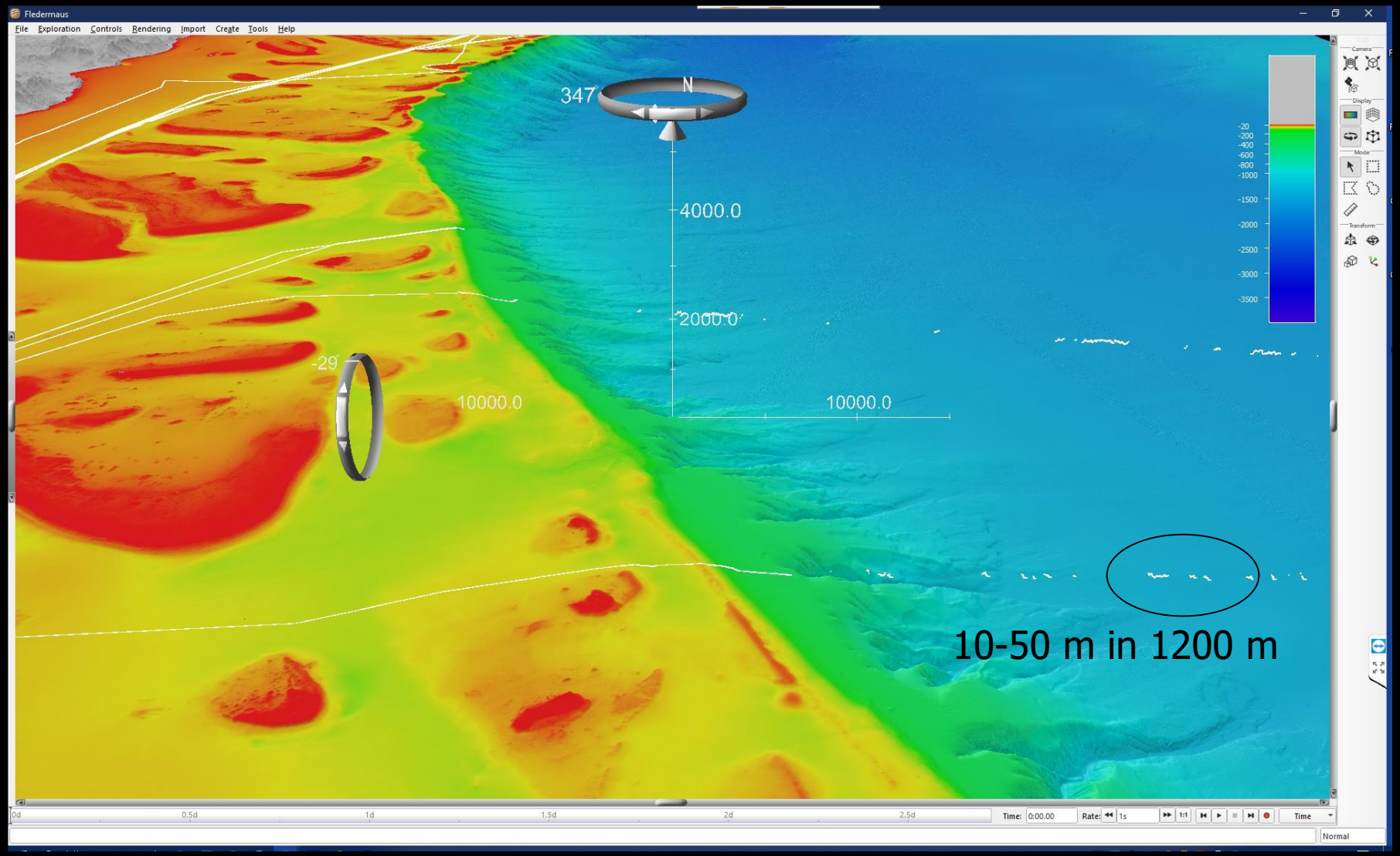
- reads GGA, RMC, ZDA, DBT strings
- lat,long,date,time,course,speed,depth
- report of errors, valid data points, %



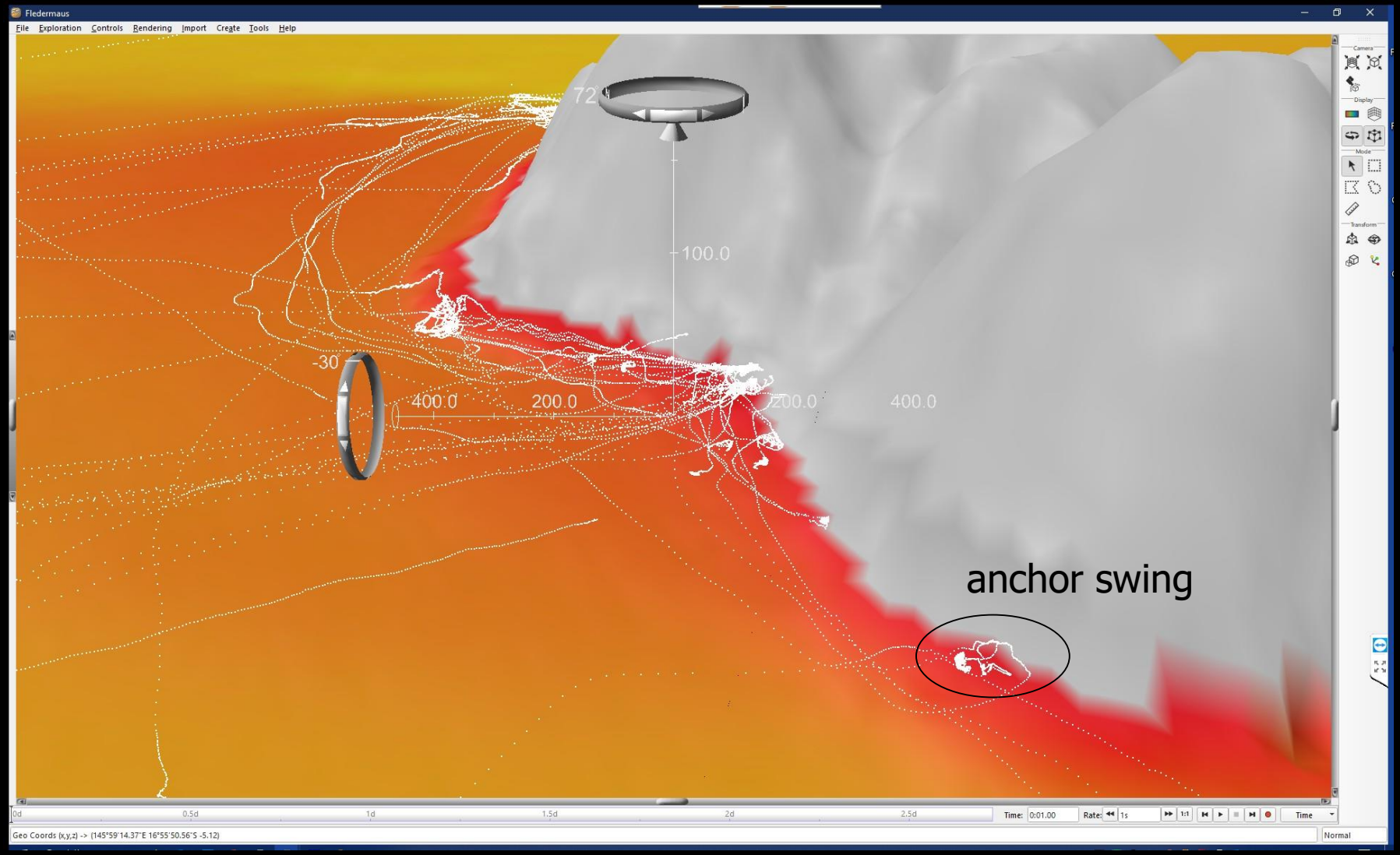
Errors – position with few decimal places



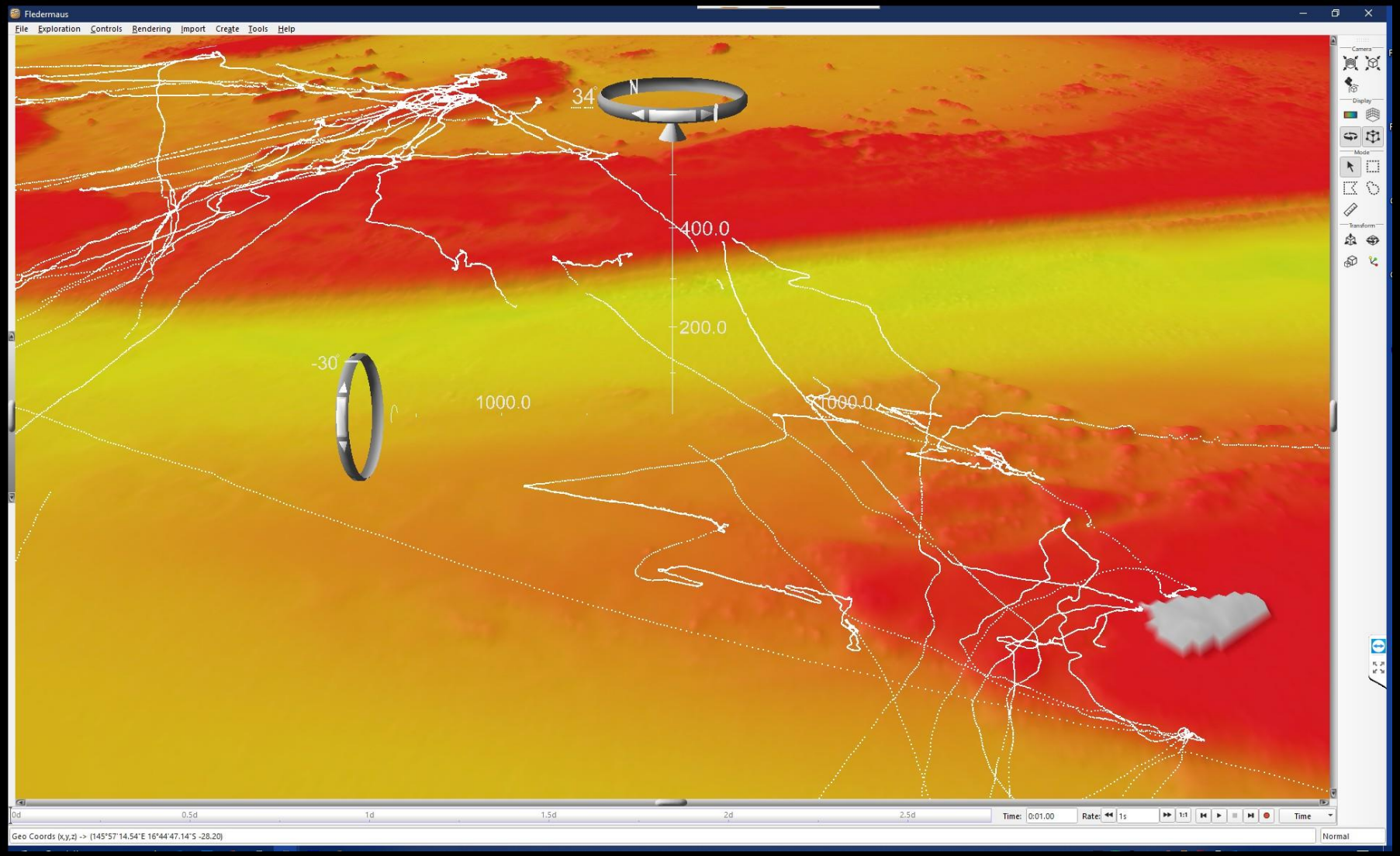
Errors – depths recorded beyond limits



Errors – high traffic areas



……but mostly pretty good data!



Future work

1. add more volunteer vessels to CSB on GBR project
2. put python script online for TSV-CSV conversion
3. upload more CSB on GBR data to the DCDB
4. get approval by AHO to release CSB on GBR via DCDB
5. continue advising Australian efforts for acquiring CSB data