















Stratigraphic framework and sedimentary environments of the East Shetland Platform in the Paleocene -**Preliminary Results**

Lucas A. Valore¹; Christian H. Eide¹; Tor O. Sømme¹²

1 University of Bergen, Norway

2 Equinor ASA, Norway



lucas.valore@uib.no



@lucasvalore



The project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Sklodowska-Curie grant agreement No 860383.

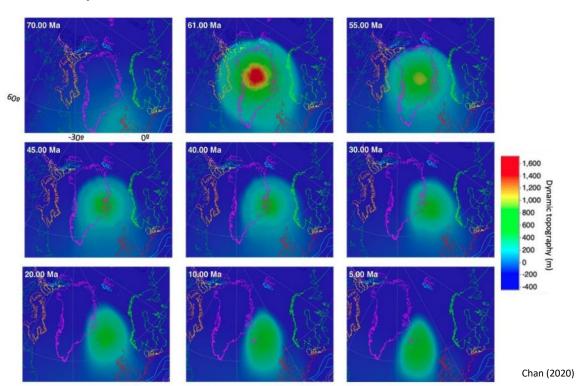


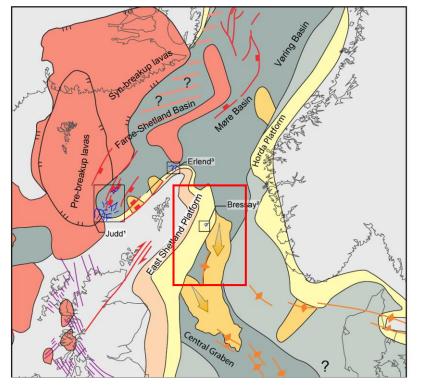


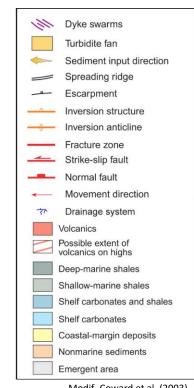
Research questions

HOW DOES MAGMATIC UPLIFT INFLUENCE SOURCE-TO-SINK **SYSTEMS?**

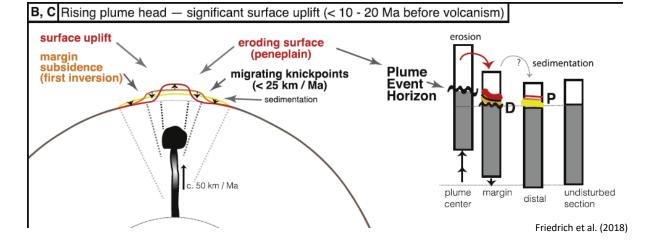
- Study area: **East Shetland Platform**, Paleocene Eocene interval, or ~ 65 to 40 million years ago
- Regional uplift due to Icelandic Plume not well understood
- **Source-to-sink sedimentology** of LIP-influenced systems is not fully understood.



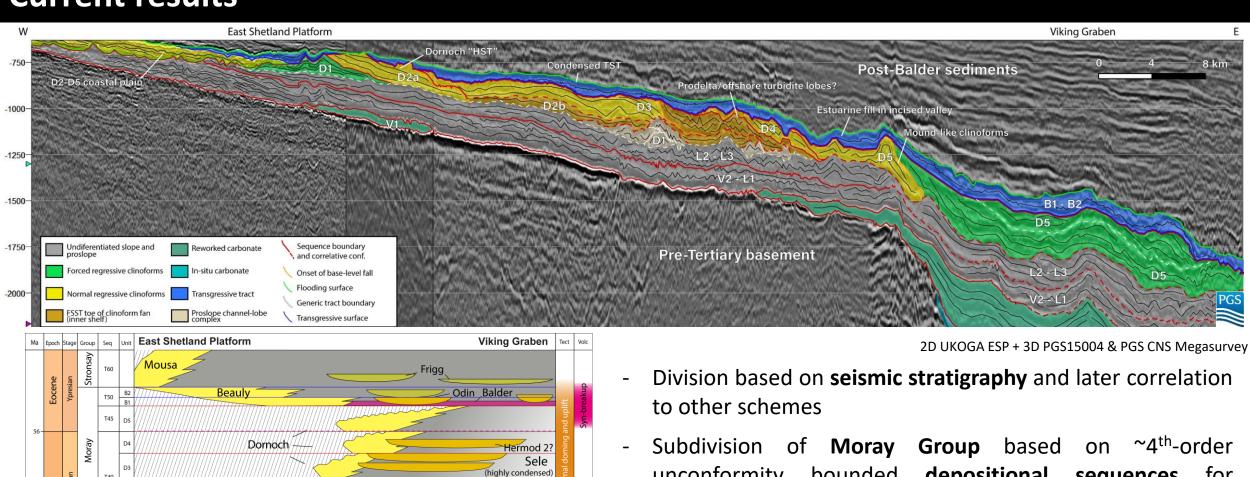




Modif. Coward et al. (2003)



Current results



Hermod 1?

Lista

Forties -

Våle

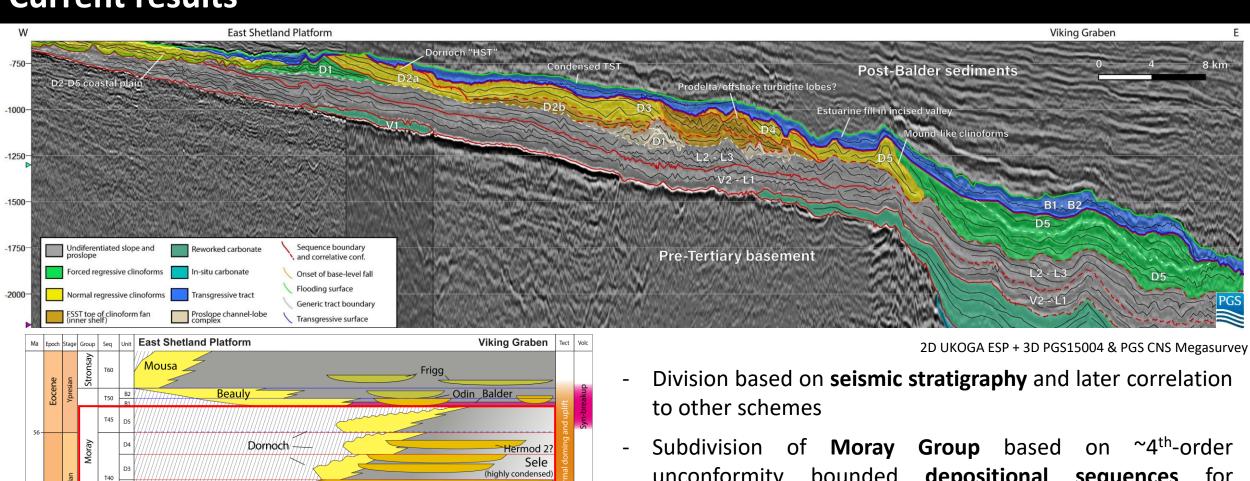
FSST/LST fan or fan delti

Heimdal

Maximum flooding surface (end of transgre

- unconformity bounded depositional sequences Dornoch/Sele Fm
- Difference in well log analysis versus seismic stratigraphy
- Higher resolution than biostratigraphy?

Current results



Hermod 1?

Lista

Forties -

Våle

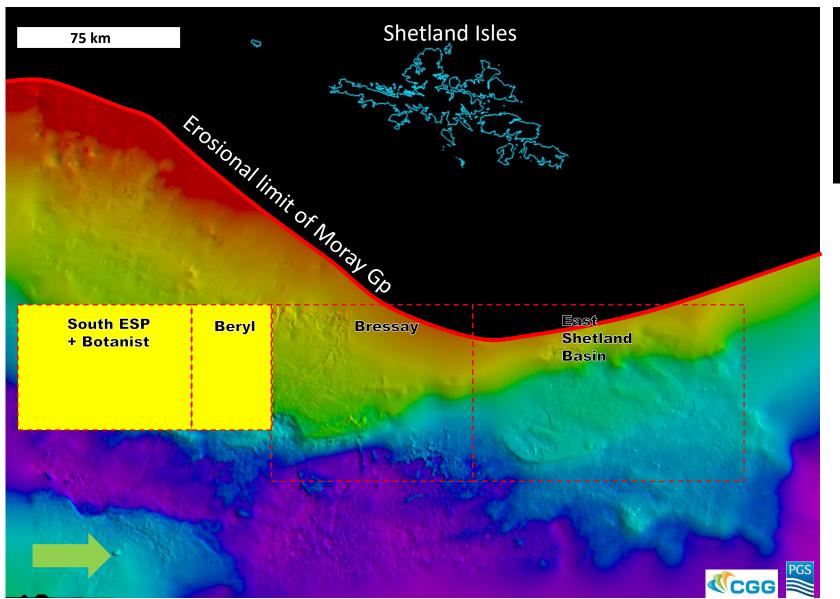
FSST/LST fan or fan delti

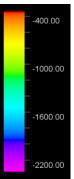
Heimdal

Maximum flooding surface (end of transgre

- unconformity bounded depositional sequences Dornoch/Sele Fm
- Difference in well log analysis versus seismic stratigraphy
- Higher resolution than biostratigraphy?

Division of study area

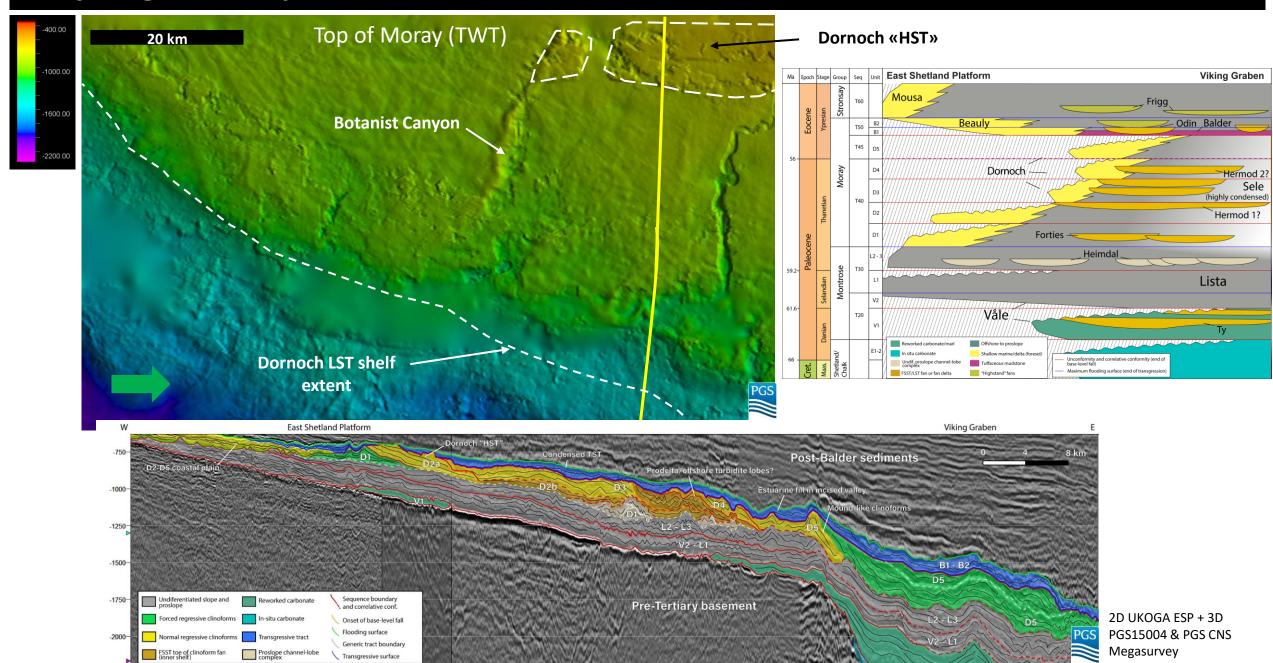




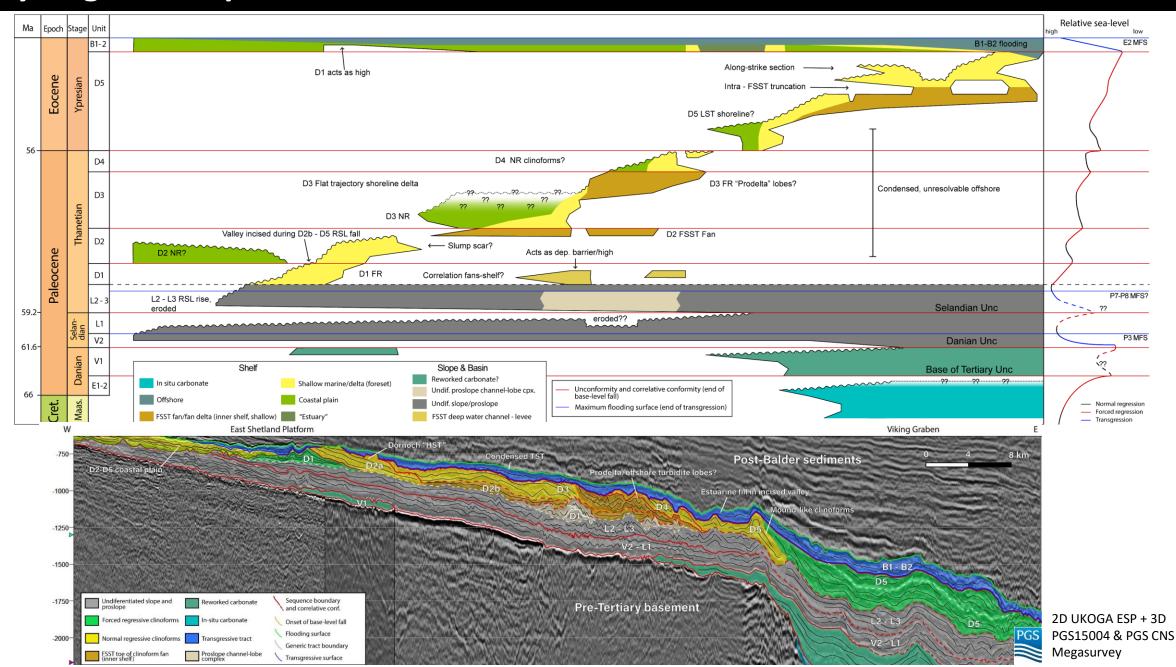
 TWT

Top of Moray Group – Lower Ypresian (Eocene)

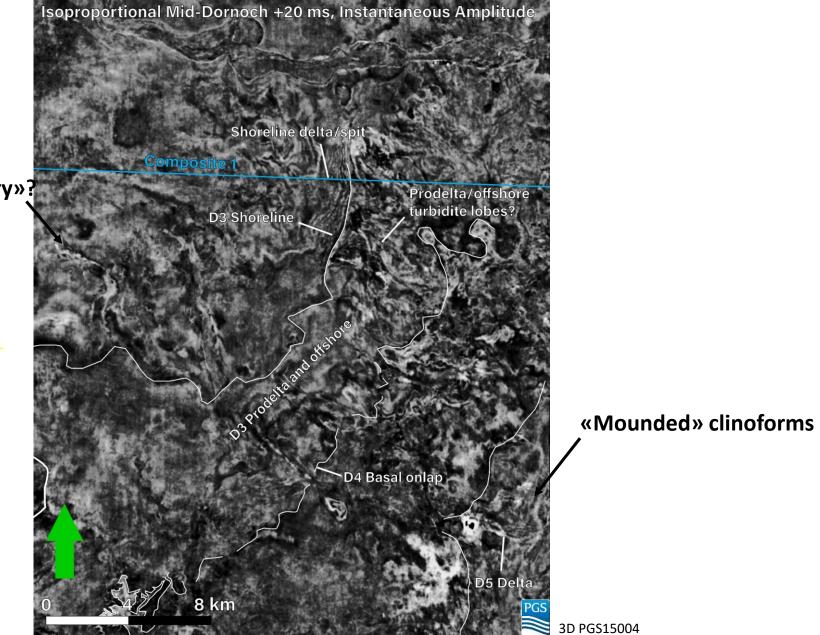
Beryl region composite



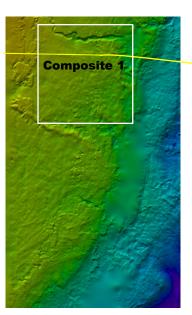
Beryl region composite



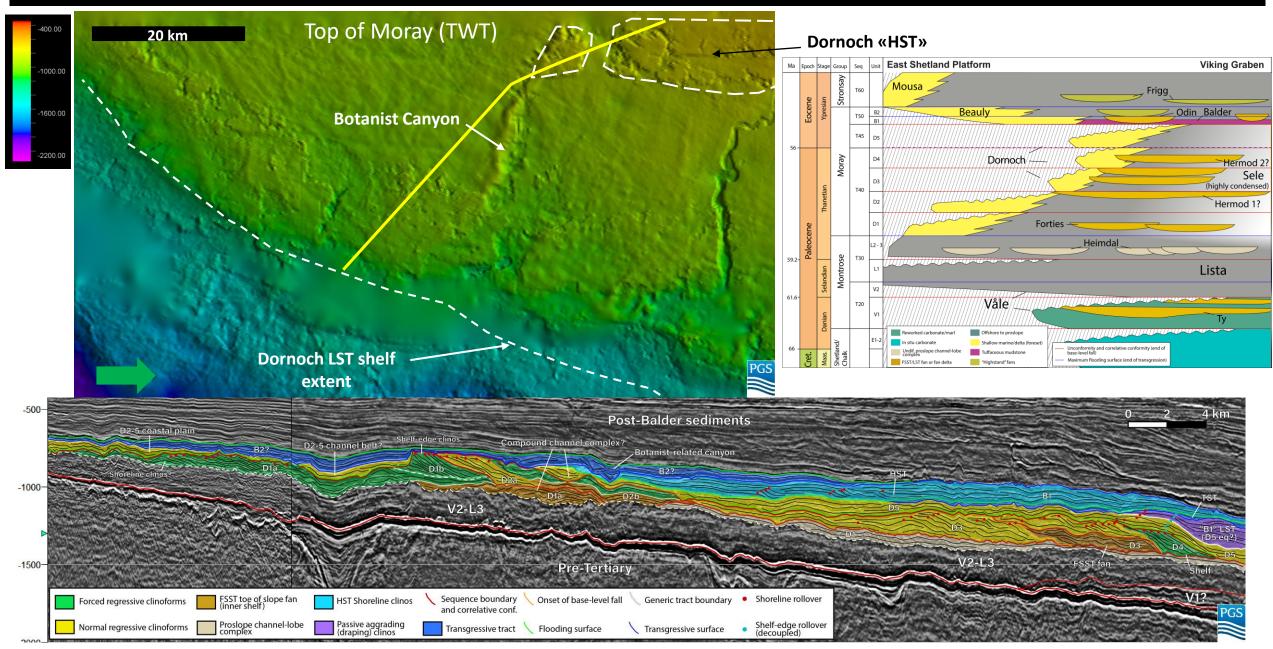
Beryl region composite



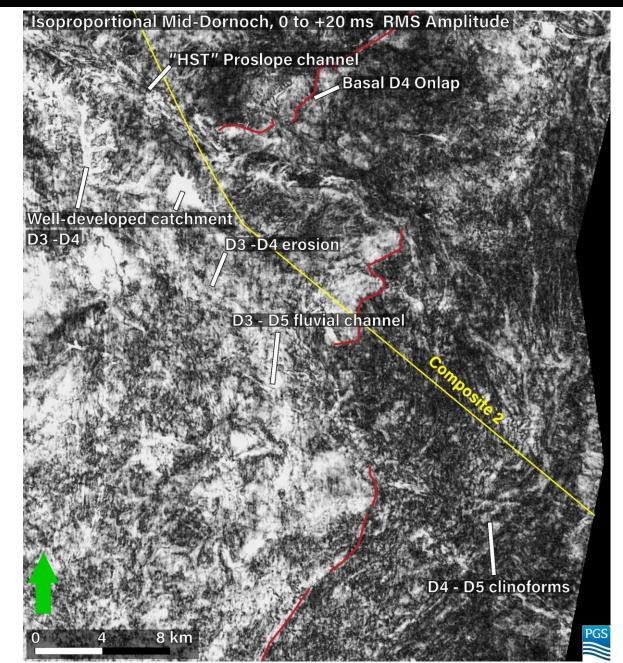
D3-D4 channel feeding into «estuary»?

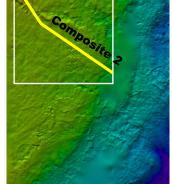


Botanist region composite

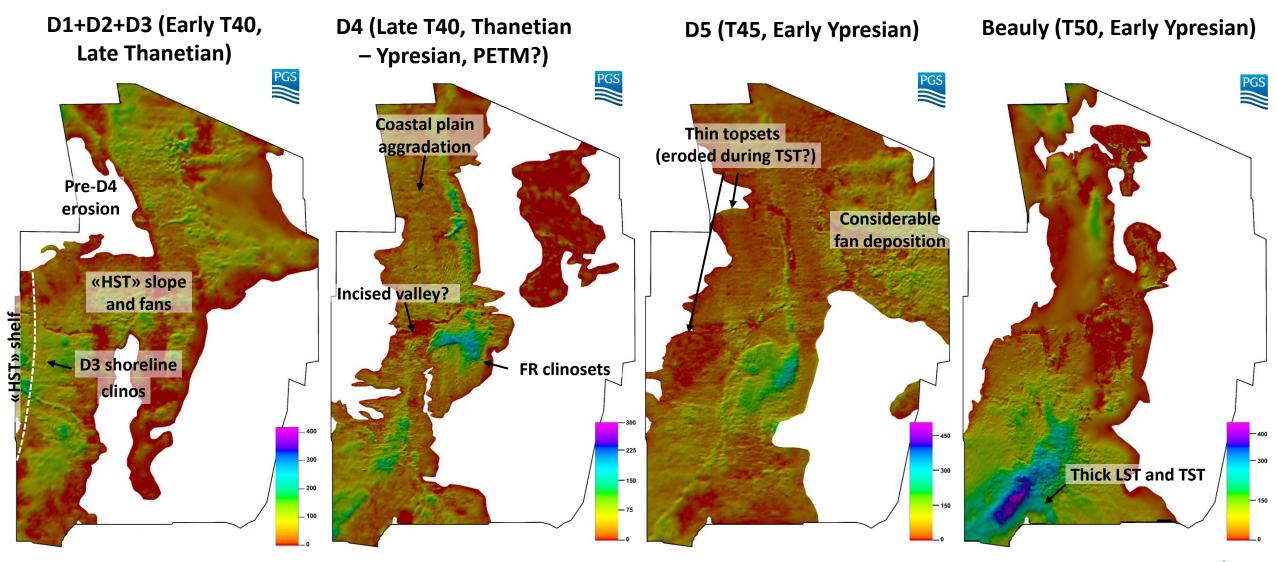


Botanist region composite





Time thickness maps – Beryl + Bressay



Thank you!



lucas.valore@uib.no



@lucasvalore



https://www.s2s-future.eu/



🥤 @S2sltn

Special thanks to..













