

Anomalies in Neogene in the Sleipner area based on survey ST98M11

Notes:

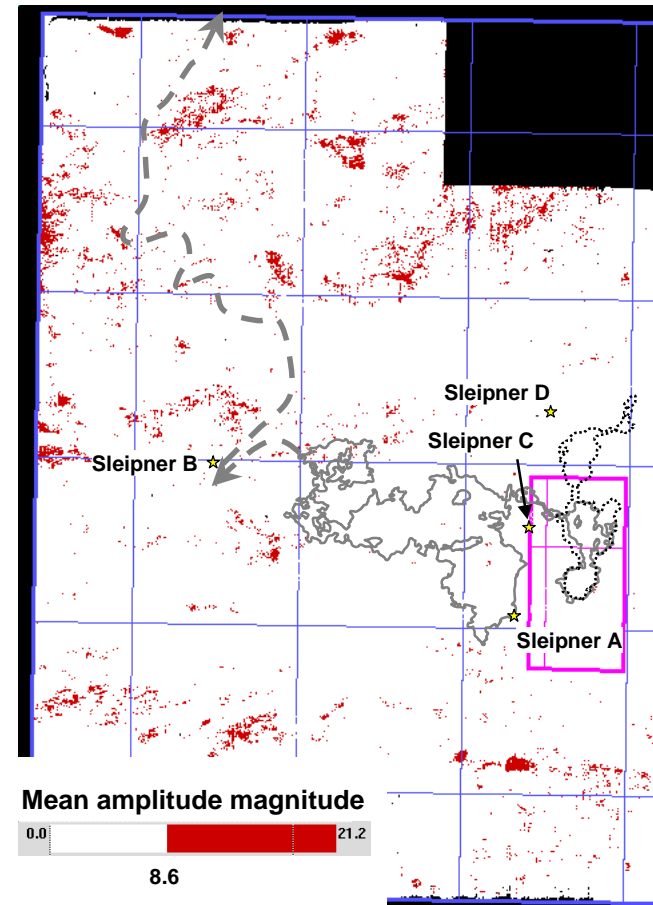
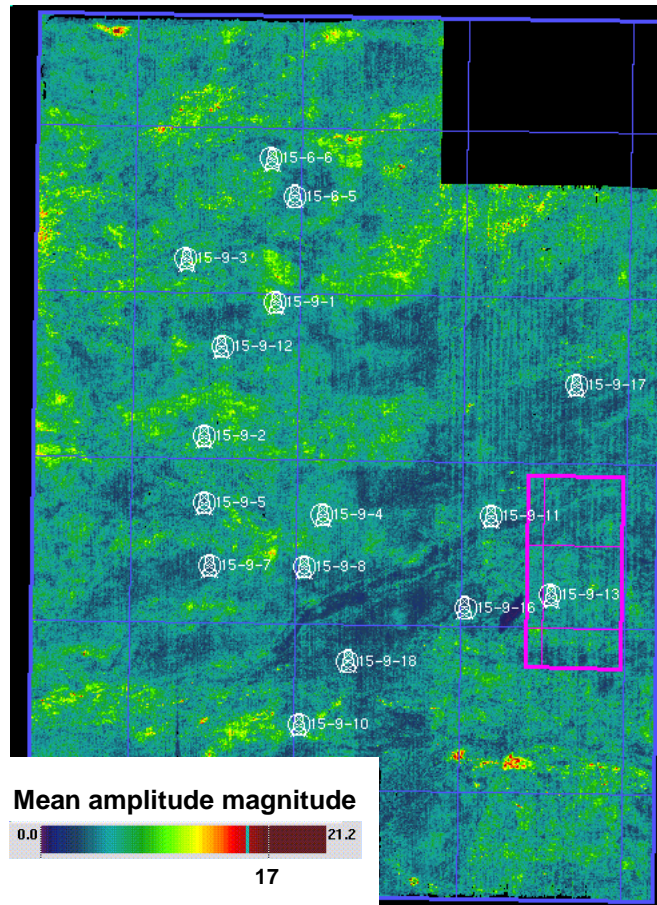
shown on the red-withe figures are the outlines of the predicted trap areas below top Utsira (grey) and below top sand wedge (black, dashed) and the potential northward migration path below top Utsira (Zweigel et al. 2000).

The maps highlight extremely strong anomalies (large positive and negative amplitudes which may be due to shallow gas accumulations. Disturbance zones and seismic chimneys, potentially coresponding to gas migration pathways, were not mapped. Be aware that sites of accumulations do NOT necessarily correspond to sites of potential leakage from below.

Anomalies in the Utsira Sand are all artefacts, i.e. primarily multiples from anomalies above.

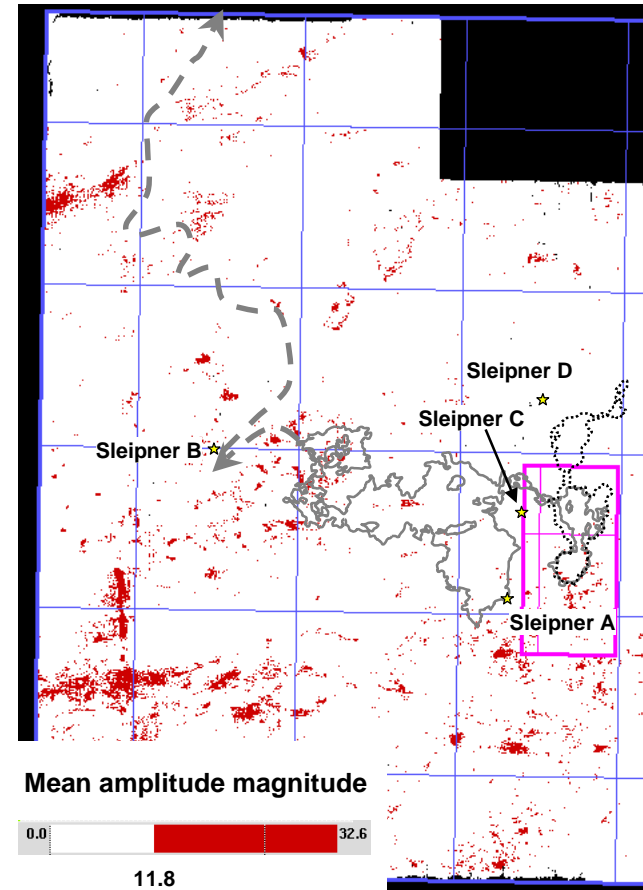
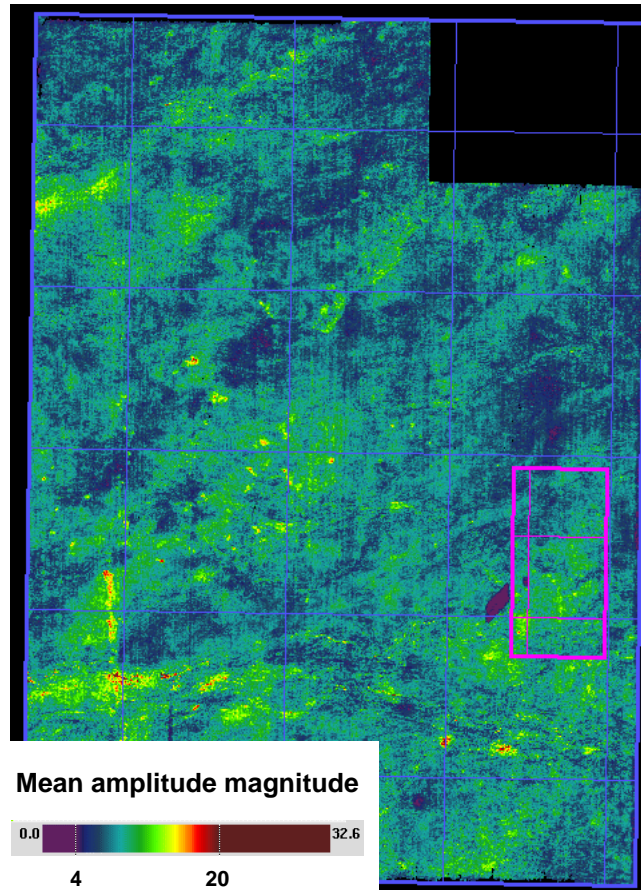
Note especially the clear localisation of anomalies at the top of the Utsira Sand and at the top of the Pliocene, the latter of which may be structurally controlled.

Amplitude anomalies in the upper Quaternary



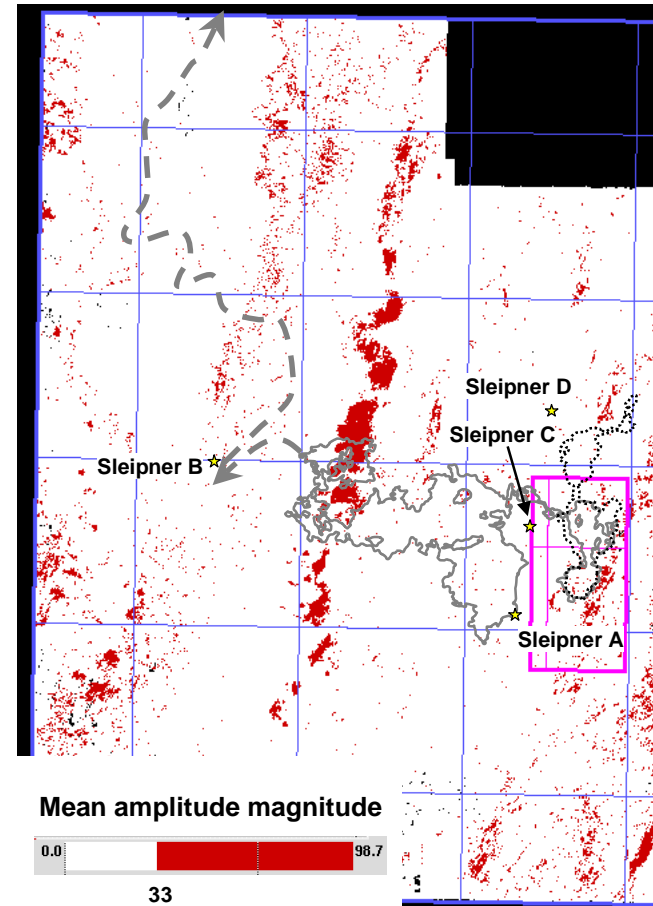
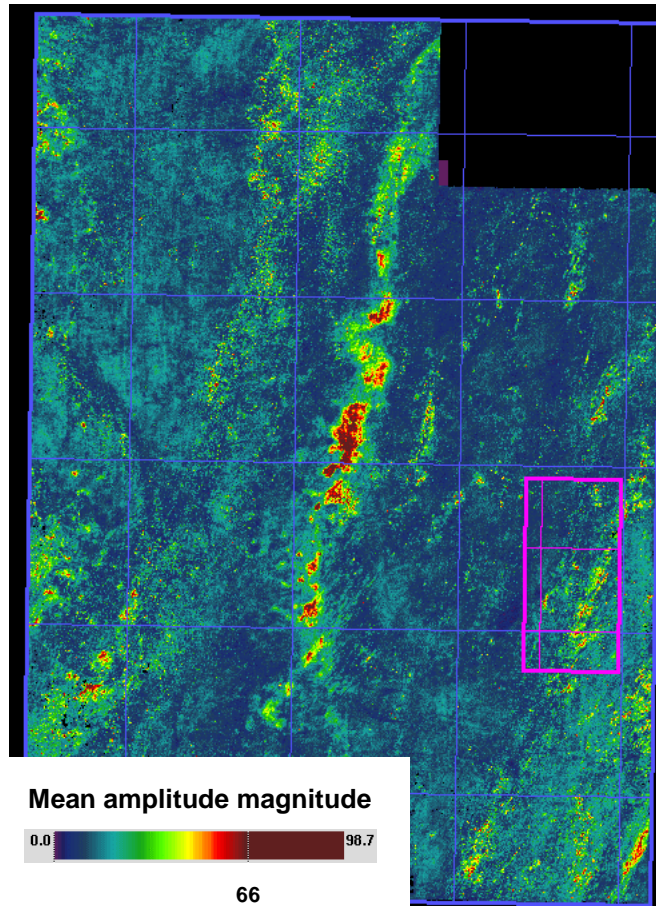
Mean amplitude magnitude in interval from 40 ms to 200 ms below sea floor

Amplitude anomalies in the lower Quaternary



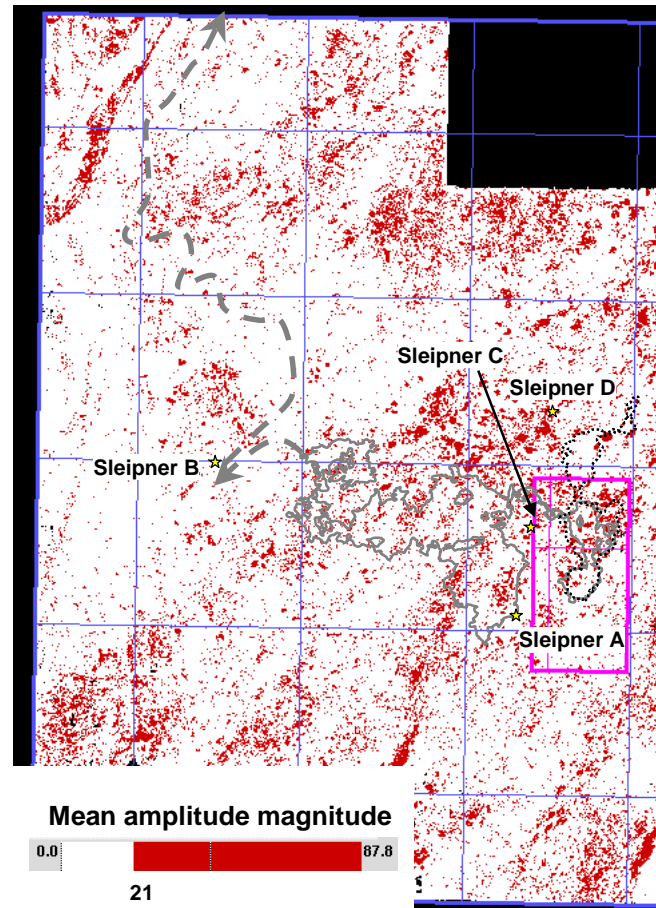
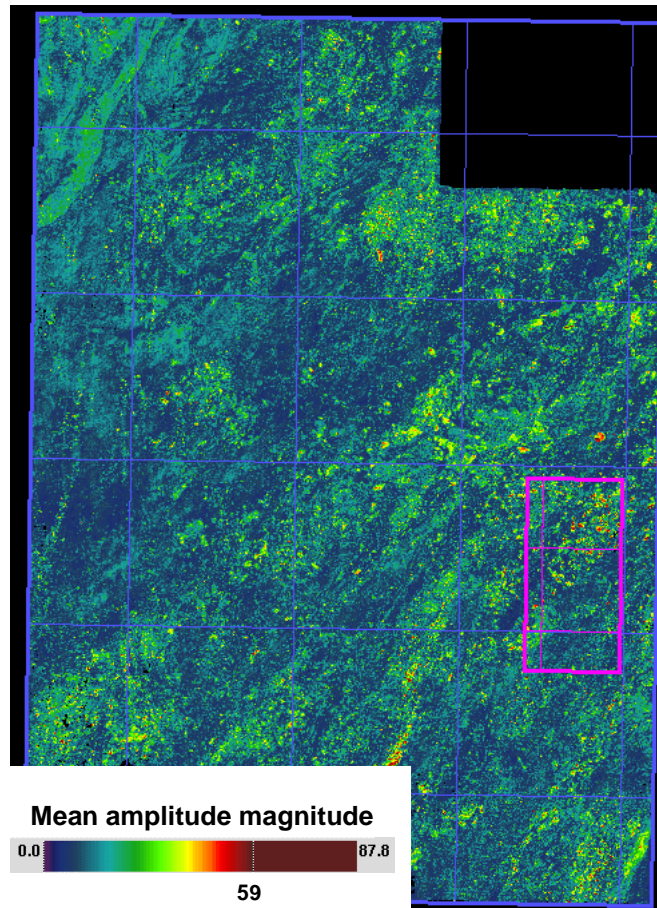
Mean amplitude magnitude in interval
from 200 ms to 400 ms below sea floor

Amplitude anomalies at the top Pliocene



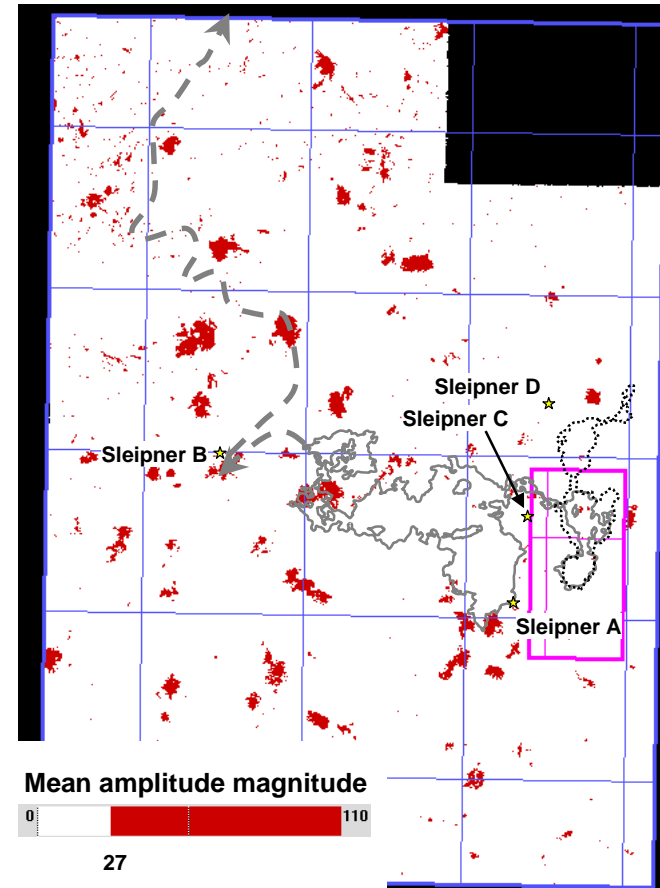
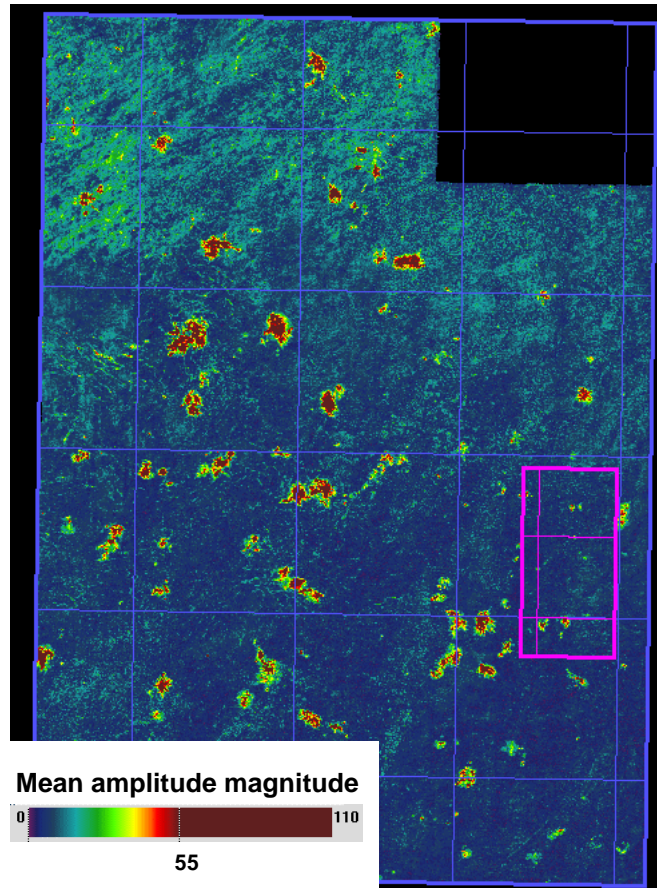
Mean amplitude magnitude in interval
from 10 ms above to 20 ms below Top Pliocene

Amplitude anomalies in the upper Pliocene



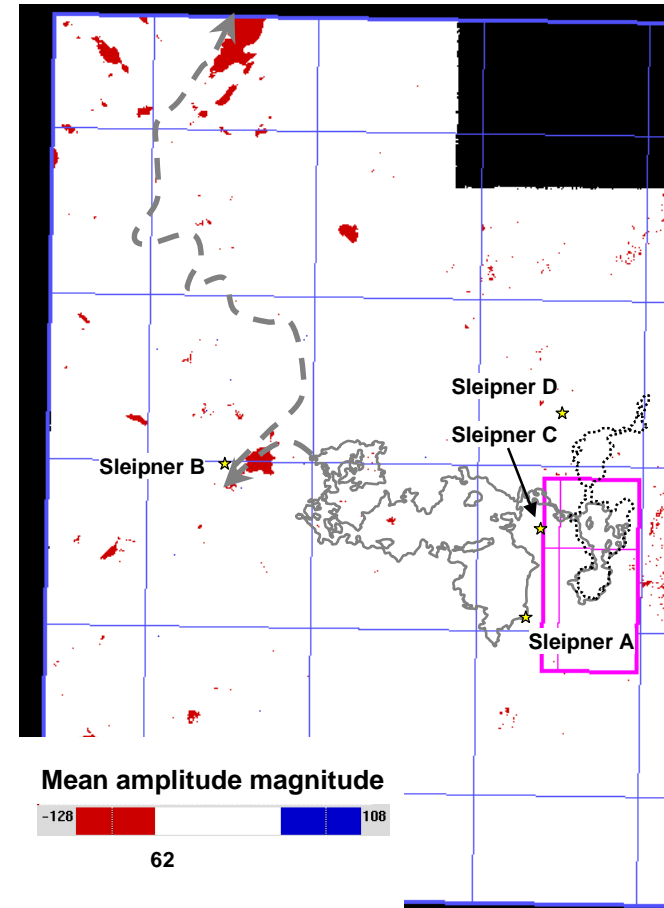
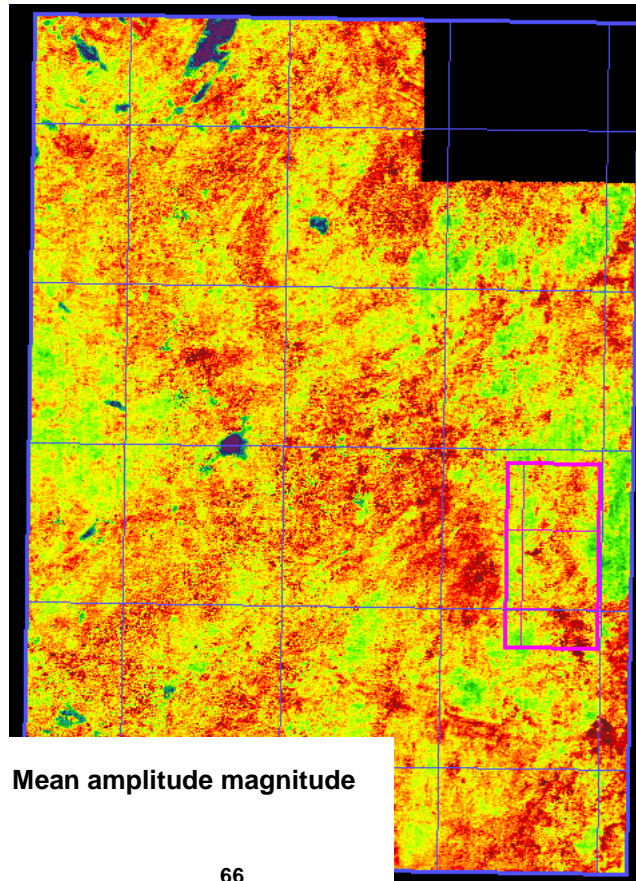
Mean amplitude magnitude in interval from 20 ms below Top Pliocene to Intrapliocene

Amplitude anomalies in the lower Pliocene



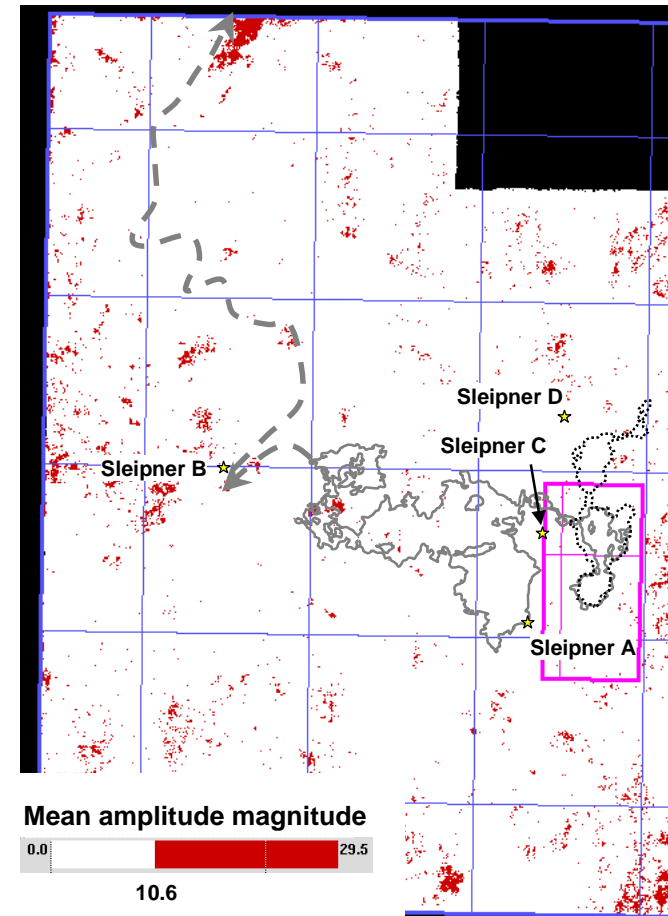
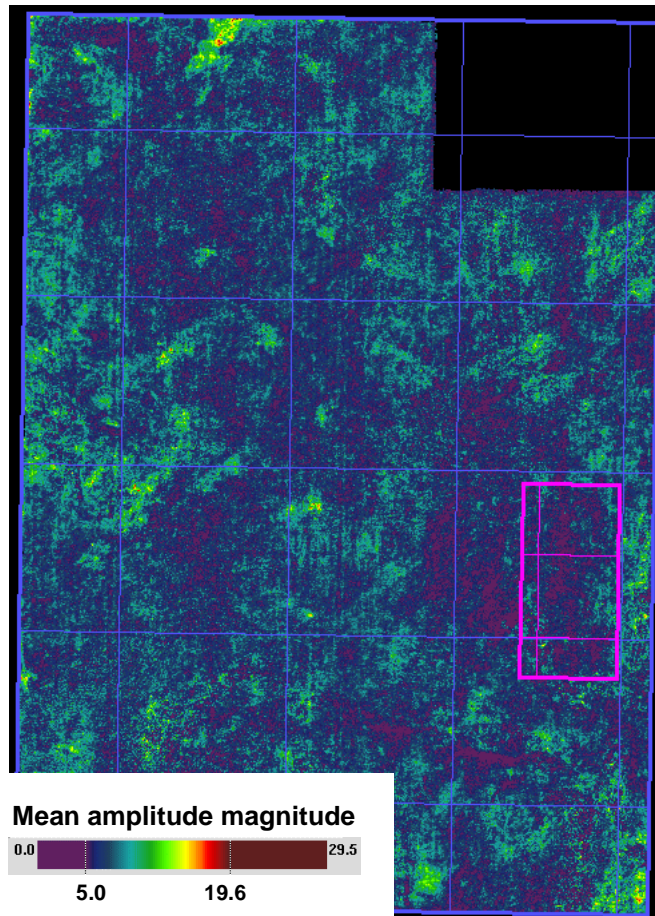
Mean amplitude magnitude in interval
from 50 ms to 20 ms above Top Utsira (where no sand wedge present)
or from 45 ms to 15 ms above top sand wedge (where present)

Amplitude anomalies at the top Utsira



Amplitude at top Utsira

Amplitude anomalies in the Utsira Sand



Mean amplitude magnitude in interval
from 30 ms below top Utsira
to 10 ms above base Utsira

Amplitude anomalies in the Sleipner area - Examples

