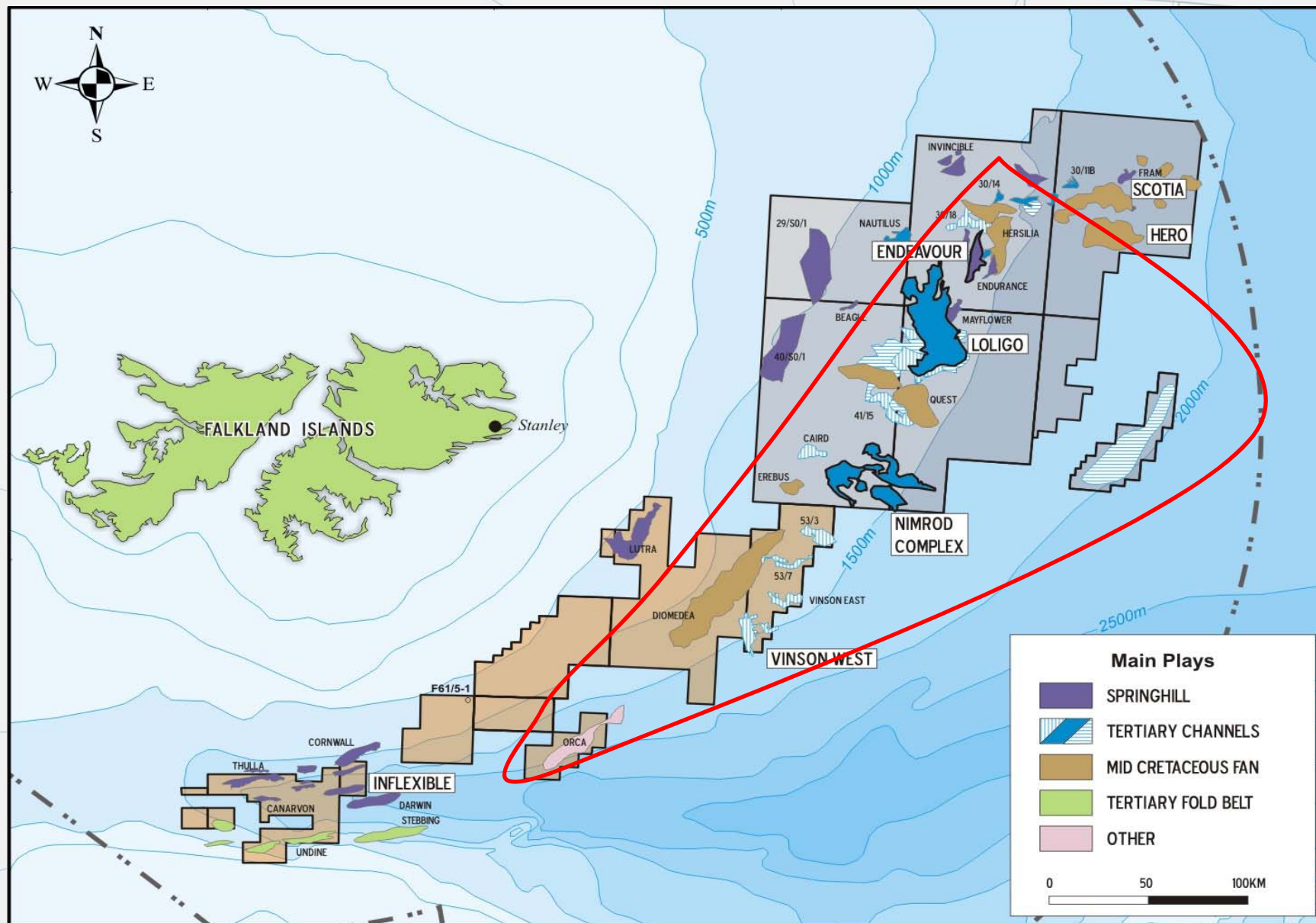
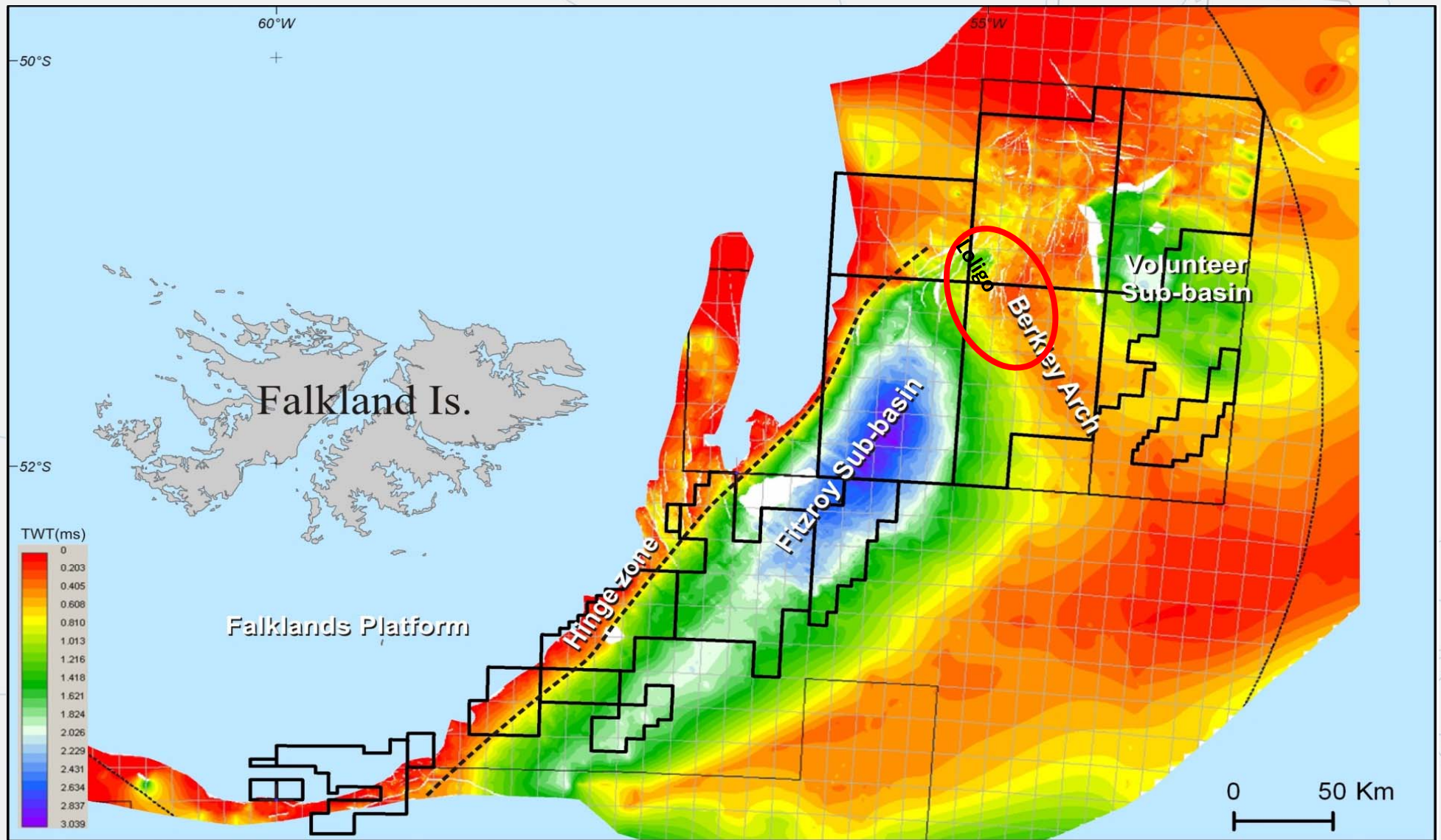


# Tertiary Channel Play – Areas of Development in the East Falkland Basin



The Tertiary Channel Play is widespread in the basin but is not present at the Toroa well location. The best prospects within the play lie in the northern Licences (Loligo Complex, Nimrod, Vinson West).

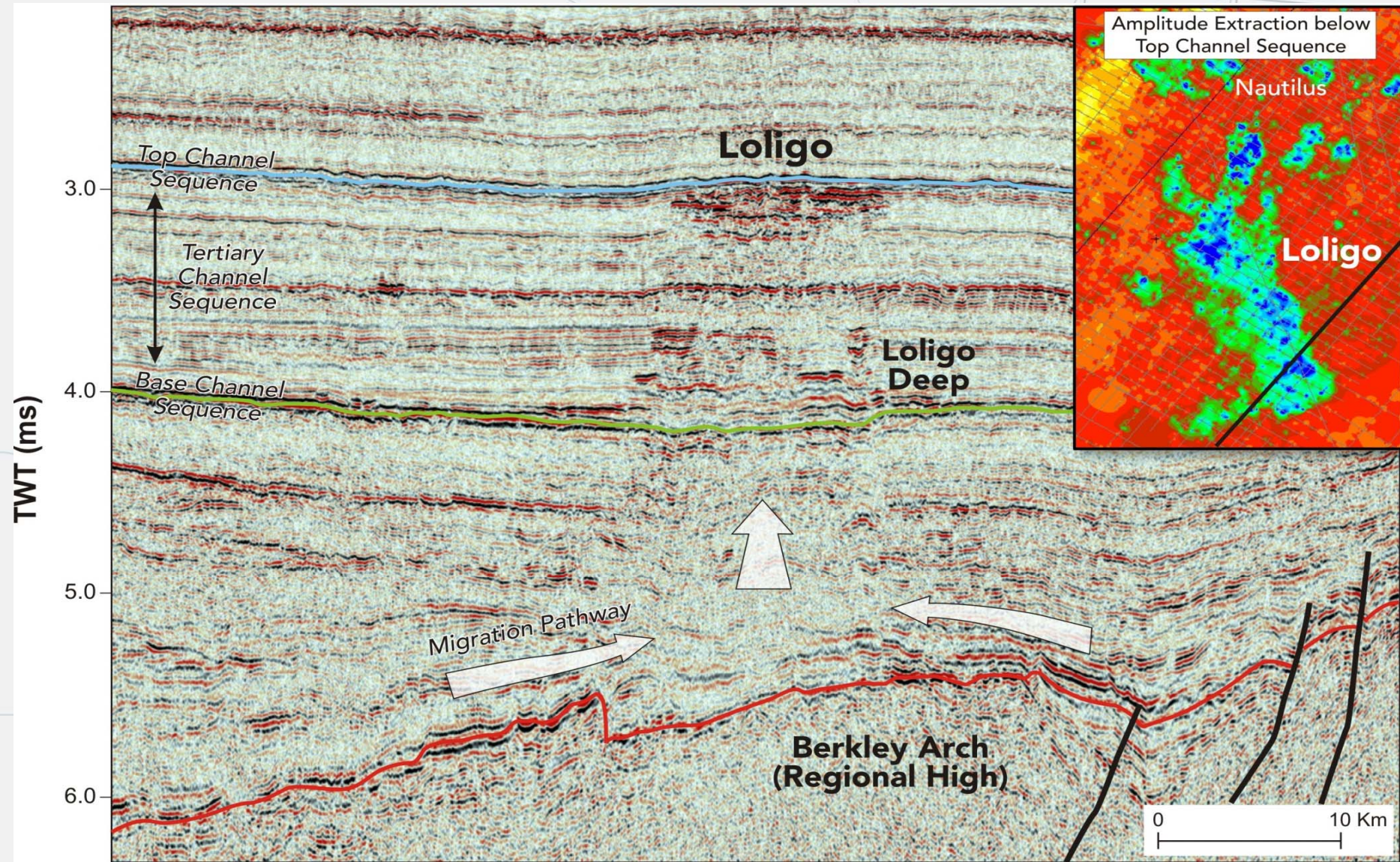
# Loligo Location Above Old Basin High



The map illustrates the thickness of sediment in the two sub-basins at about 140 millions years ago (the Valanginian). Two sub basins clearly exist separated by a large intra basin high. This is called the Berkeley Arch. Later, about 80 million years ago, deposition of the Tertiary Channel sequence commenced. Sands within the Loligo complex were deposited directly above the old high.



# Loligo

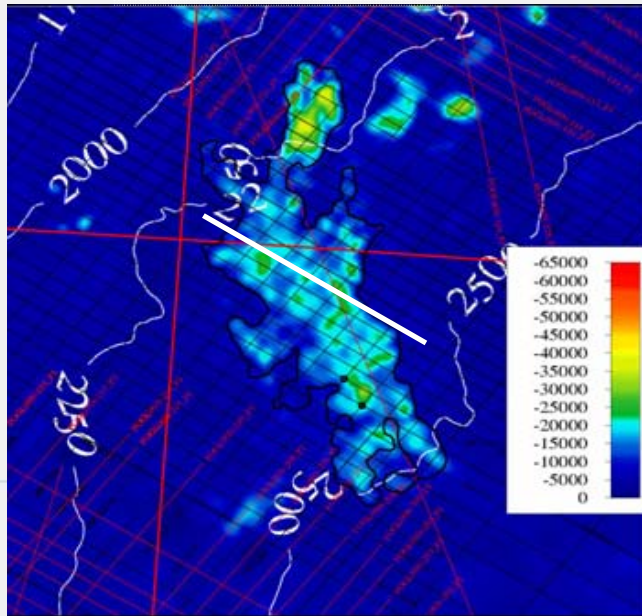


This seismic section through the massive Loligo prospect shows the oil migration pathway from the adjacent basins, the probable vertical migration and the large seismic amplitude (bright) that is associated with feature. The inset maps illustrates brightness of the seismic event when compared to the surrounding area.

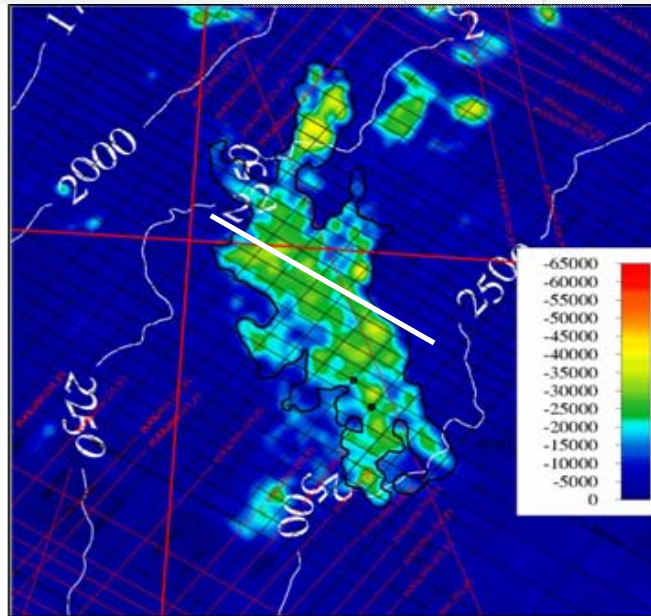


# Loligo AVO – Class III Amplitude Brightens with Offset

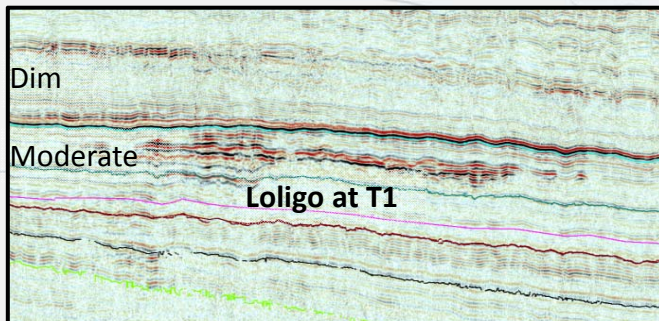
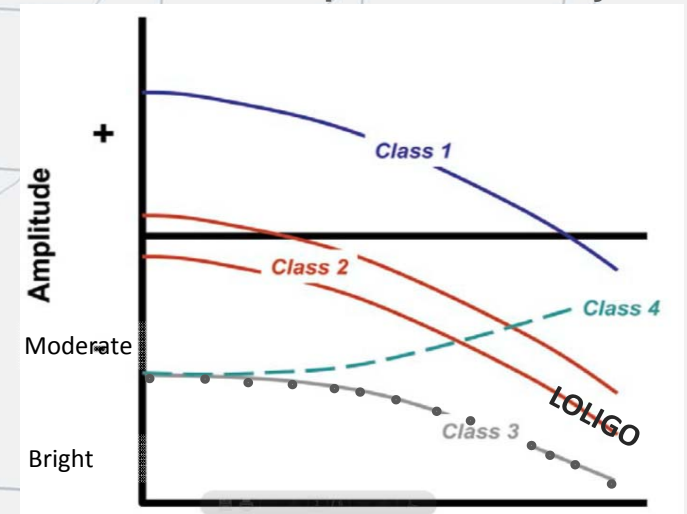
Near Amplitudes



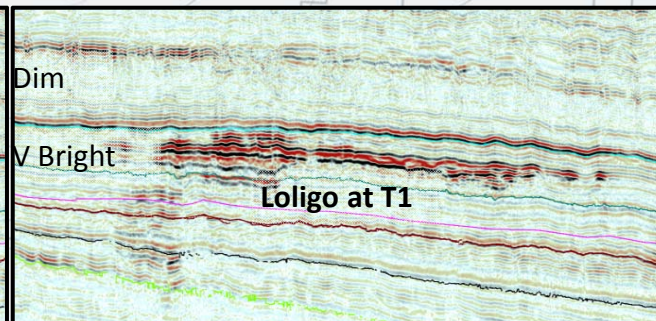
Far Amplitudes



AVO Response Summary



Near Stack

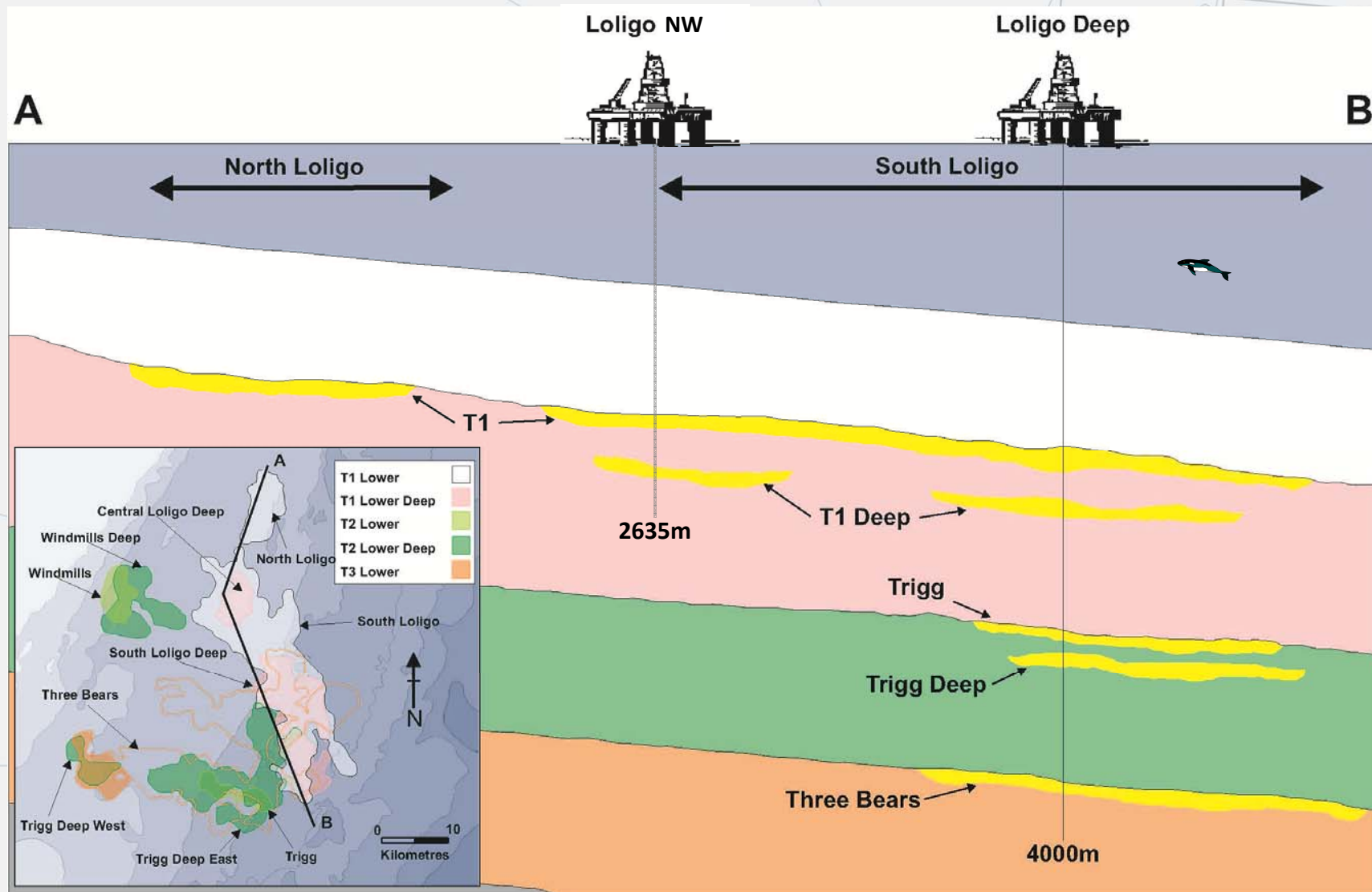


Far Stack

## Loligo AVO

- Simple Gulf of Mexico style Class III – moderately bright on near offset, very bright on far offset
- Map shows seismic amplitudes from the upper part of the target zone- near and far offset response
- Seismic shows near and far offset in the upper target zone

# Loligo



The Loligo Complex (see inset map) is formed by the vertical stacking of several different prospects. The sands that form the stacked targets were shed from different parts of the basin at different times. Towards the south east end of Loligo a single, carefully located well may penetrate more than one prospect. The benefits of a single deep well on Loligo versus a more optimally placed shallower well are under consideration.