George V Land shelf
Data sets – WEGA & NBP0101

[Map of George V Land, Mertz Bank, Adelie Bank, Mertz Glacier, and 100km scale]

Geographic coordinates:
- 66°S
- 144°E
Morphology or acoustic facies

Damuth (1980) echo types
Type IA-2 (ice-keel turbate)
Type IB (ooze deposits)
Type IIB (smooth diamicton)
Type IIIC (ridges and canyons)
Moraine or ridge
Mertz Drift - hillshade
Ice-keel turbate

hillshade

backscatter
Ooze deposit

hillshade

backscatter
Ice flow
Open marine phase

- CDW
- MCDW
- HSSW
- sea ice
- Mertz Glacier
- ice cliff
- IA-2
- IIB
- IIIC
Conclusions

• George V Land shelf is comprised of four acoustic facies types and a lateral moraine

• Backscatter interpretation mostly confirms seafloor morphology and facies boundaries

• Understanding these features provides a shelf-wide interpretation of the palaeoenvironment

• Seafloor morphology maps will help characterise the seabed and be useful for future studies on marine habitats of the Antarctic shelf
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