

SCUFN24-07.1E

# SCUFN-24

Action item  
SCUFN23/69

Vaughan Stagpoole  
September 2011

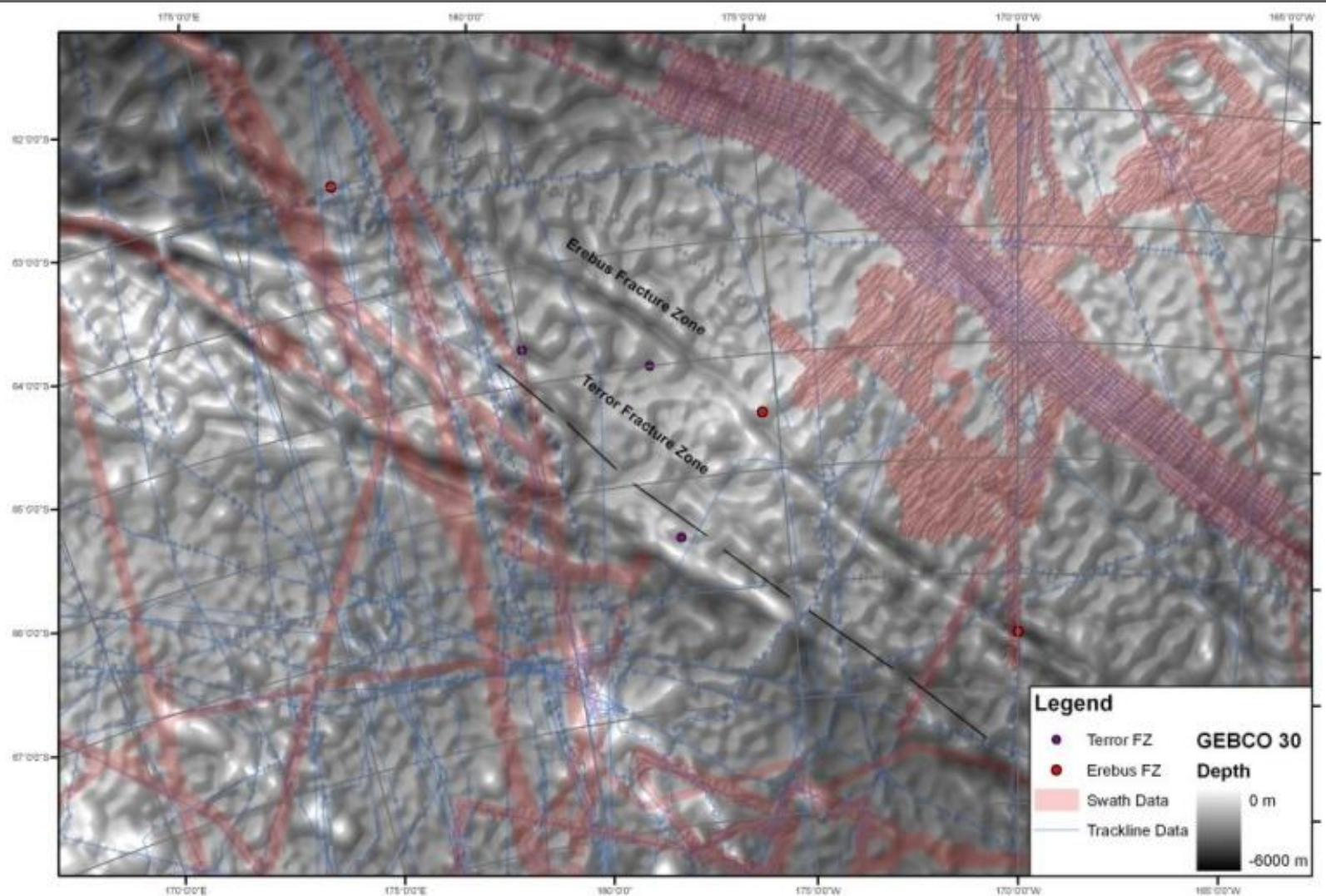


# Erebus and Terror Fracture Zones SCUFN23/69

SCUFN23/69

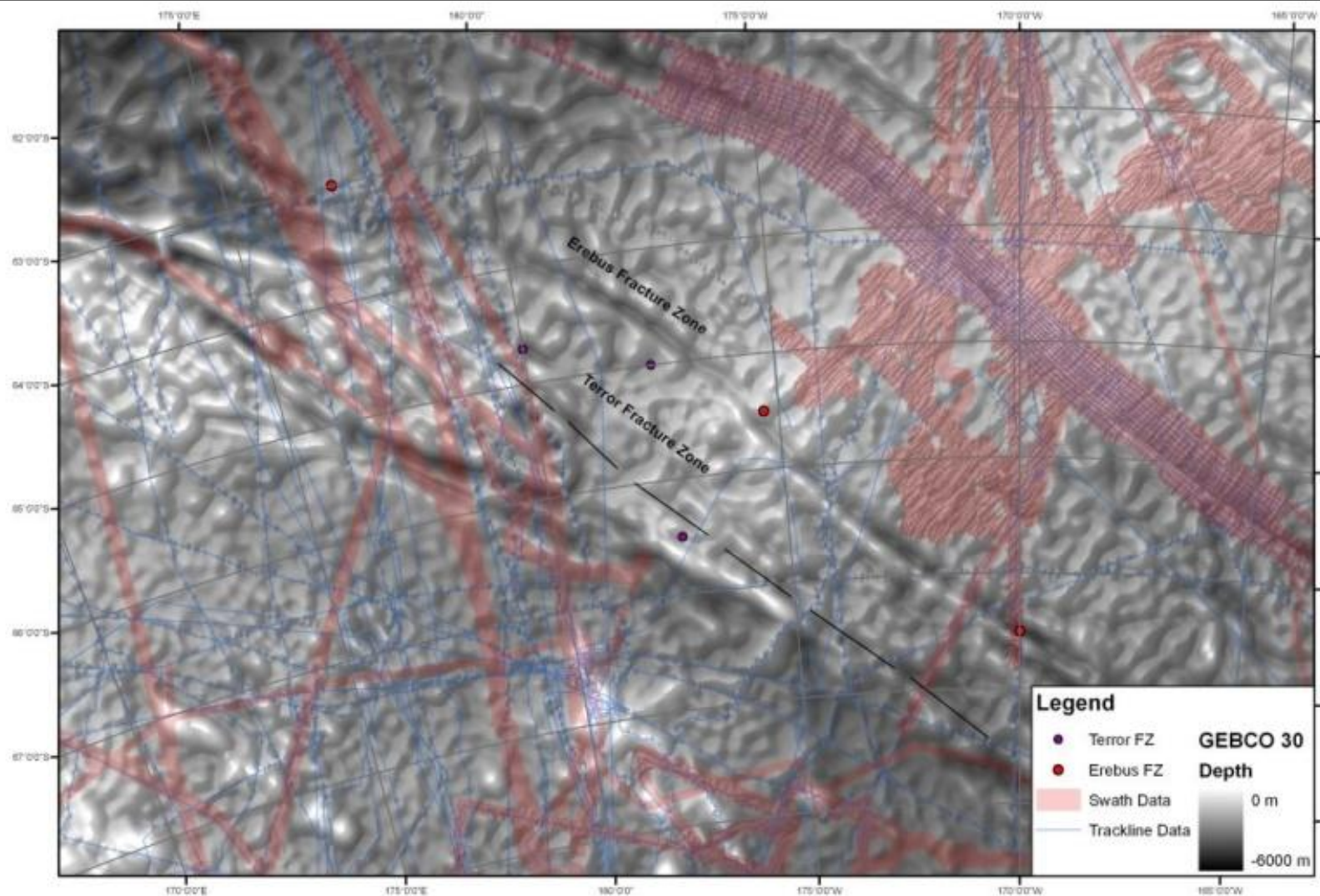
7.1

V. STAGPOOLE to enquire about data availability for Erebus Fracture Zone and Terror Fracture Zone (included in the Reserve section of the GEBCO Gazetteer) from the proposer, Dr. Steven C. Cande, SIO, USA.



# Terror Fracture Zone

Terror Fracture Zone	64° 42' S 65° 00' S 66° 30' S	180° 00' E 177° 30' E 177° 18' W	The last coordinate for Terror Fracture Zone should be 66° 30' S 177° 18' E according to Dr. Stagpoole's Map. However there seems to be no bathymetric evidence of this feature from Stagpoole's Map.
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## Email from Steve Cande

Hi Vaughan,

I am glad to hear that you are considering the names Erebus and Terror for those two fracture zones. Yes, the Terror FZ is the feature that is marked by the dashed line on your image and I agree that it is not as well defined as the Erebus FZ.

However, it is an important feature – there is a large series (staircase) of roughly 10 small offset fracture zones and ridge segments between this area and the Macquarie triple junction about 1000 km to the west that formed when the Emerald FZ went into extension about 10 million years ago. The Terror FZ is the easternmost one of this series so we thought it deserved a name.

However I will be the first to acknowledge that until there is a little more swath map data over the ridge axis in this area it is difficult to say exactly where the ridge-transform intersection is. However the swath map track that cross it a little west of the axis, around 180, shows it. It has to be pretty close to the dashed line when it crosses the ridge axis. I hope this helps.

Regards,  
Steve

Erebus FZ is clearly seen on GEBCO30 grid and is correctly located in gazetteer

Terror FZ is important feature but is not clearly seen on GEBCO30 grid, not correctly located in gazetteer and has not been well mapped.

### Recommend

1. Affirm Erebus Fracture Zone
2. Affirm Terror Fracture Zone on existing evidence or reserve until more data available (ARAON ?)