

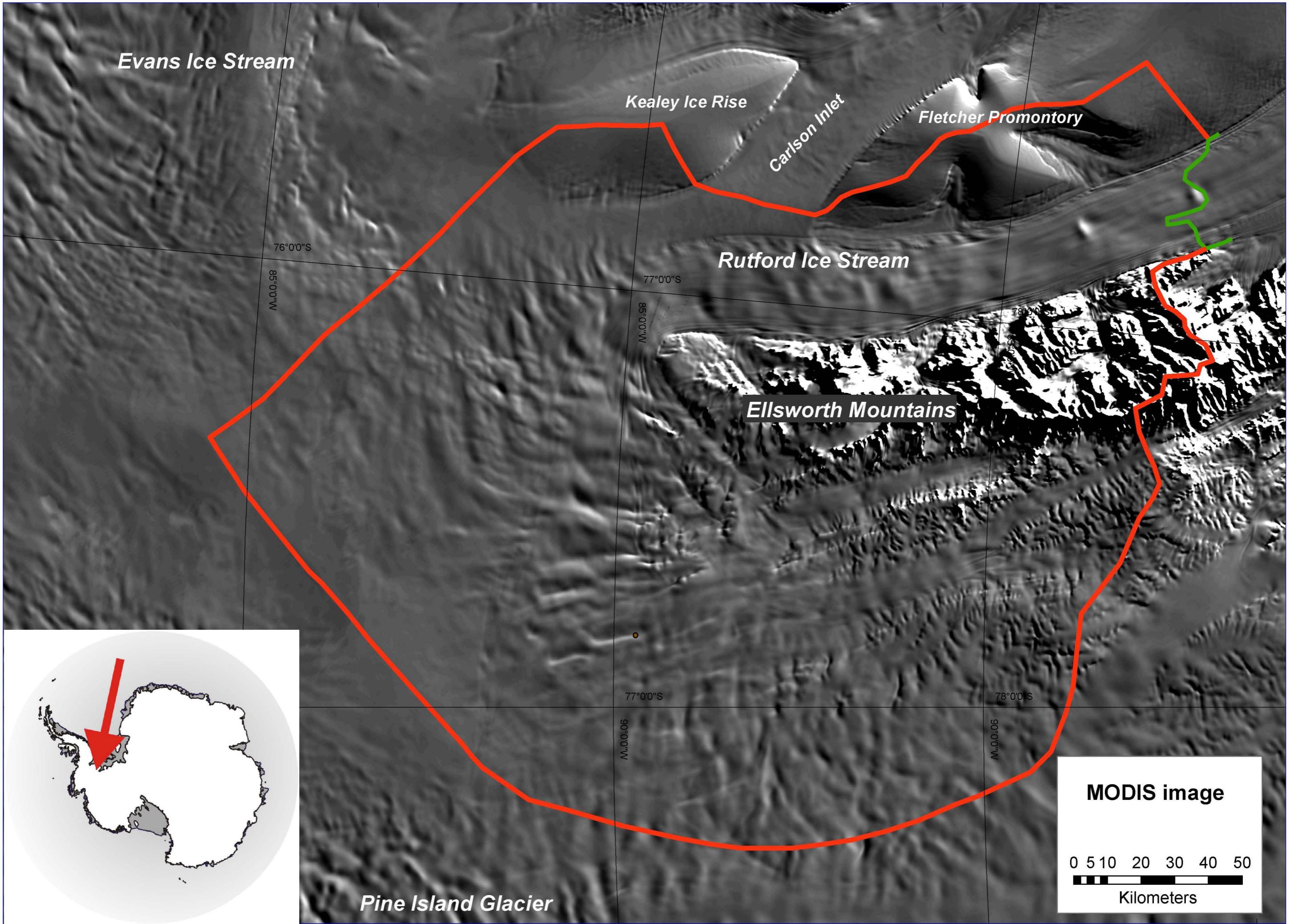
Mega-scale Glacial Lineations beneath Rutford Ice Stream

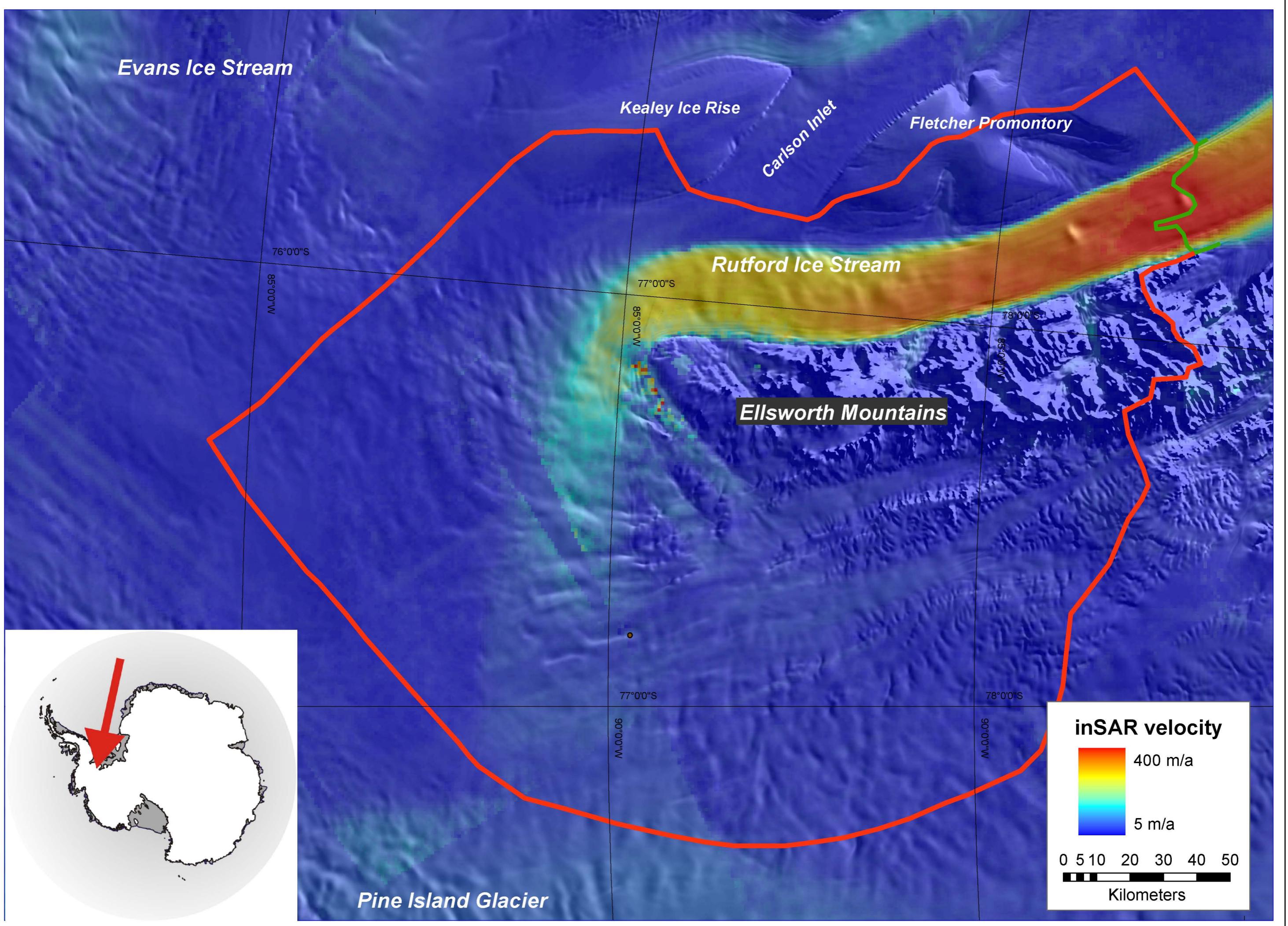
Ed King

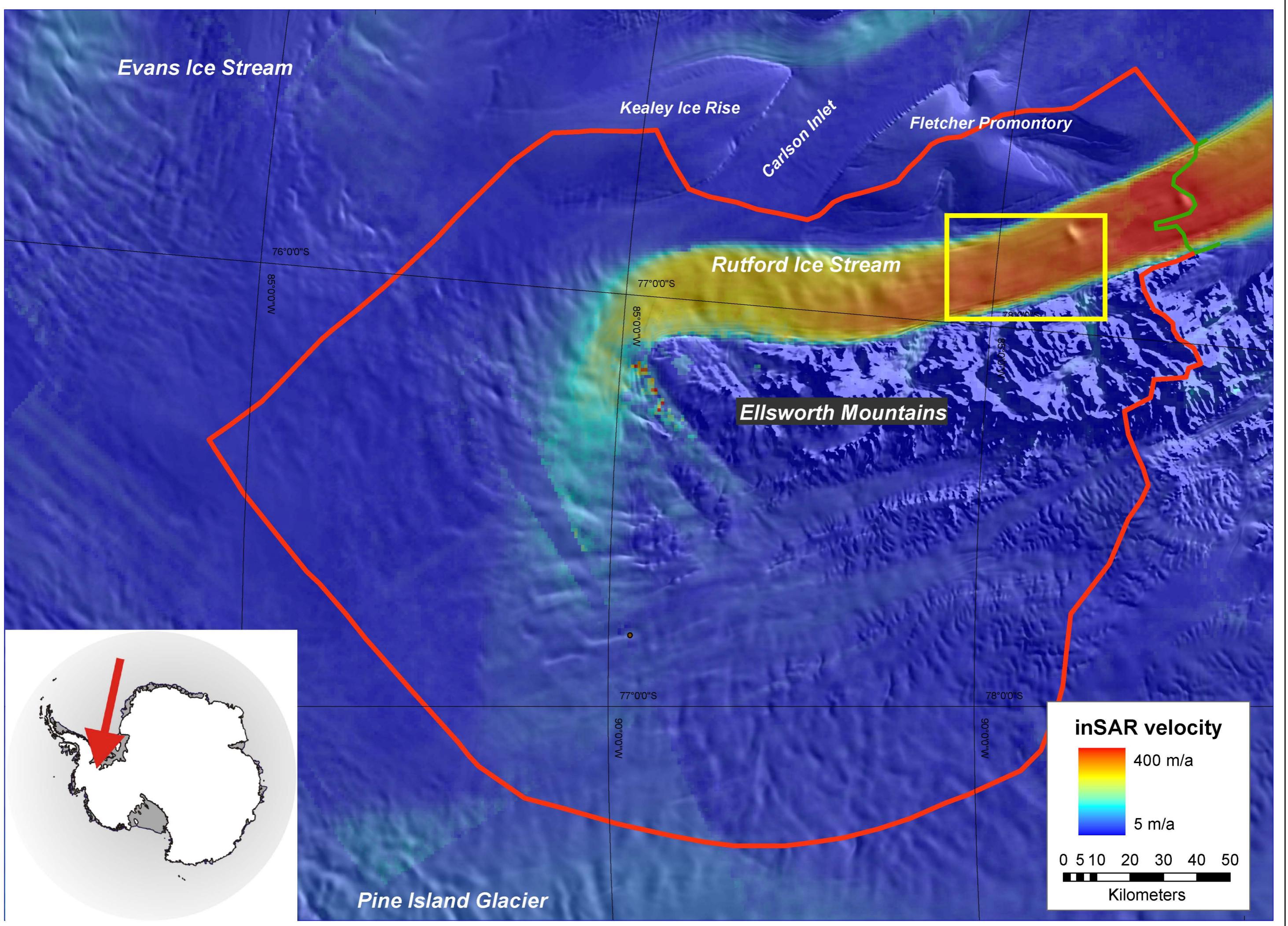


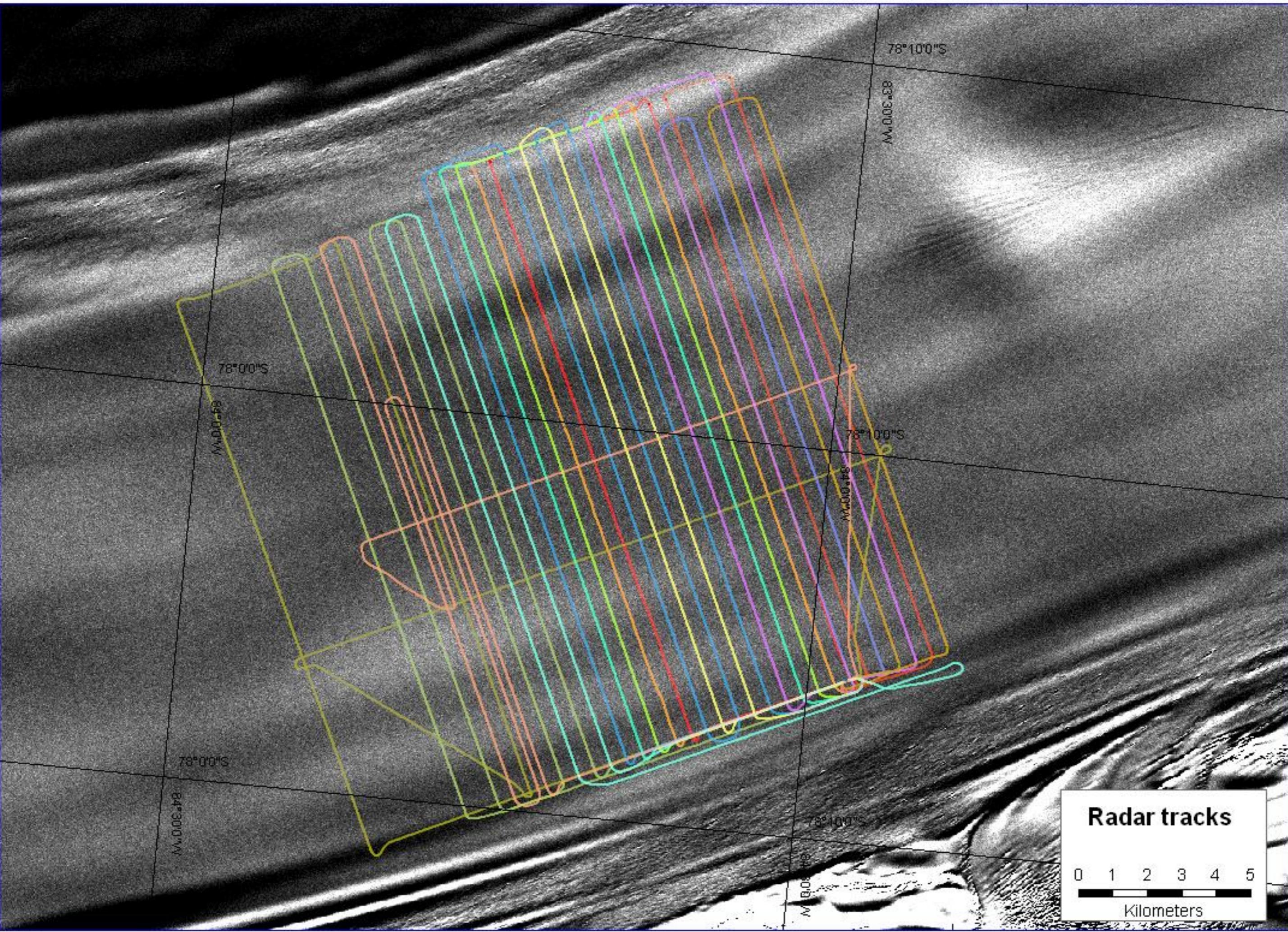
**British
Antarctic Survey**

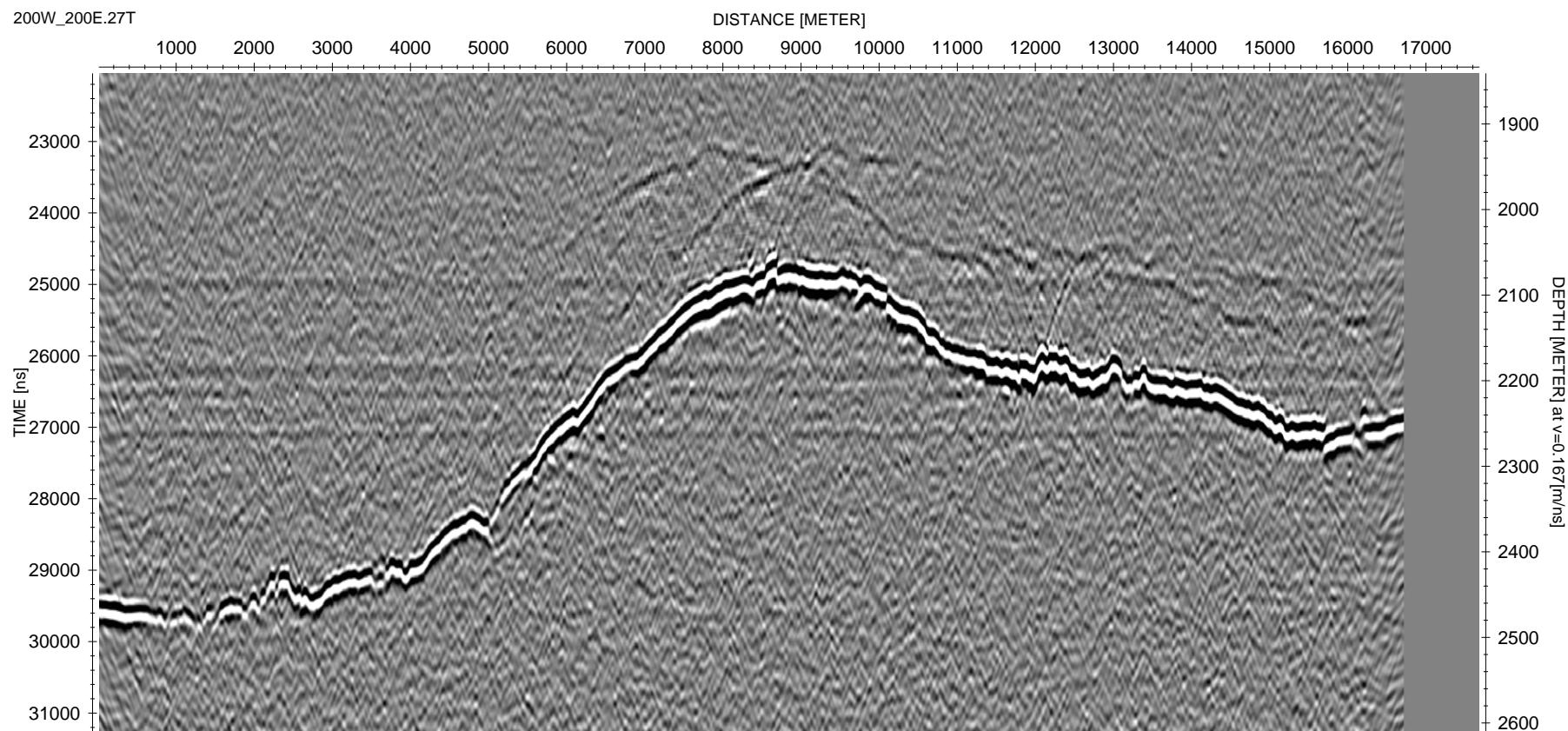
NATIONAL ENVIRONMENT RESEARCH COUNCIL

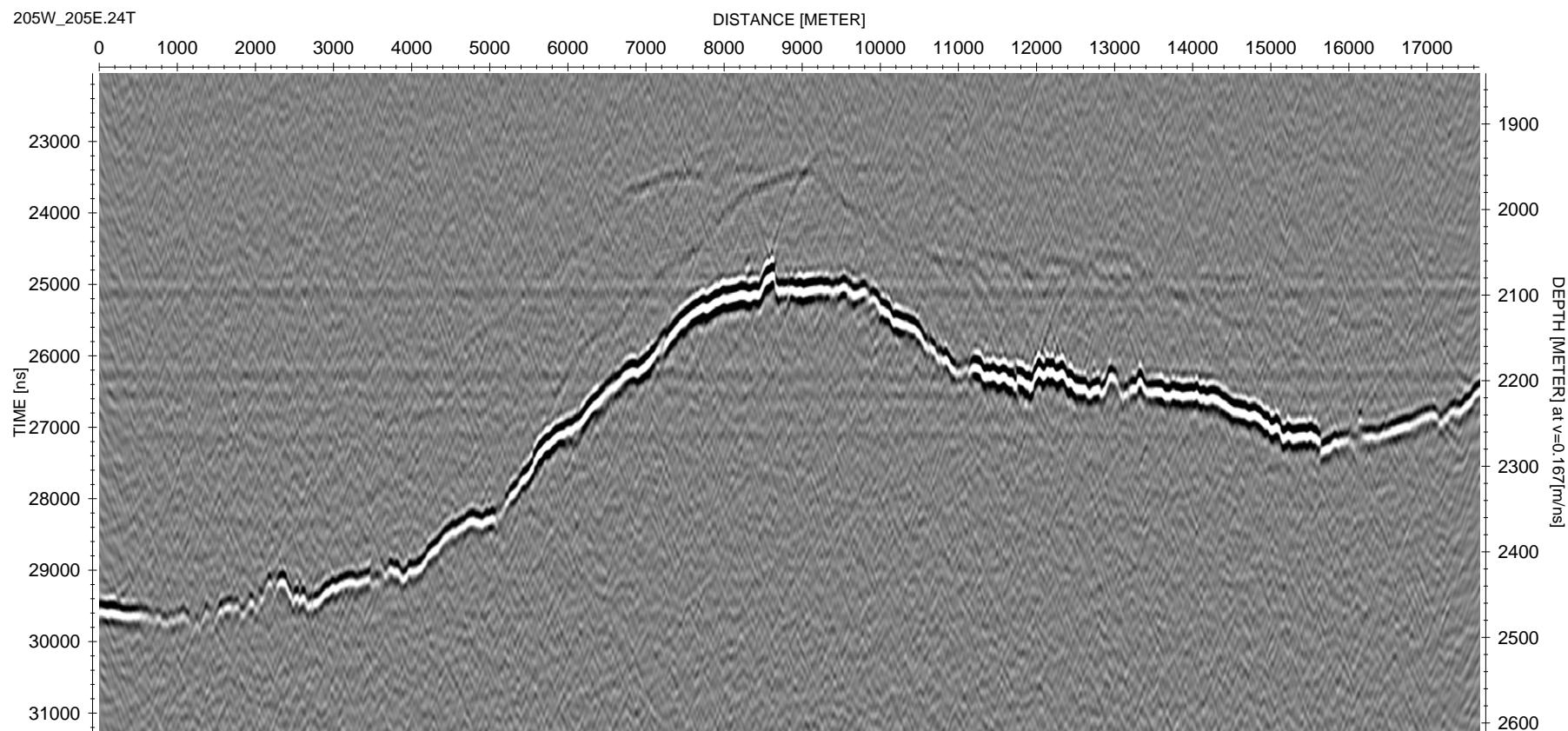


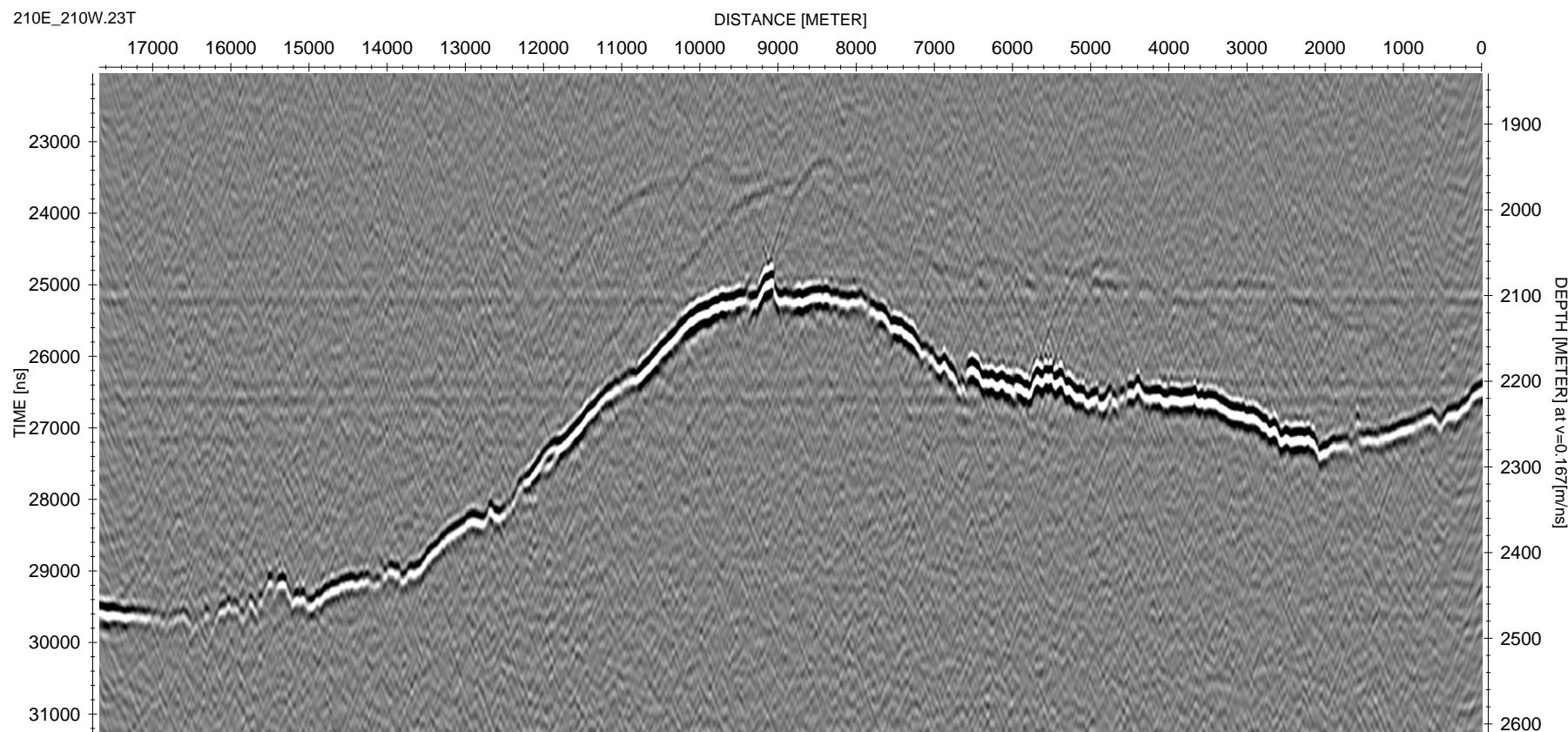


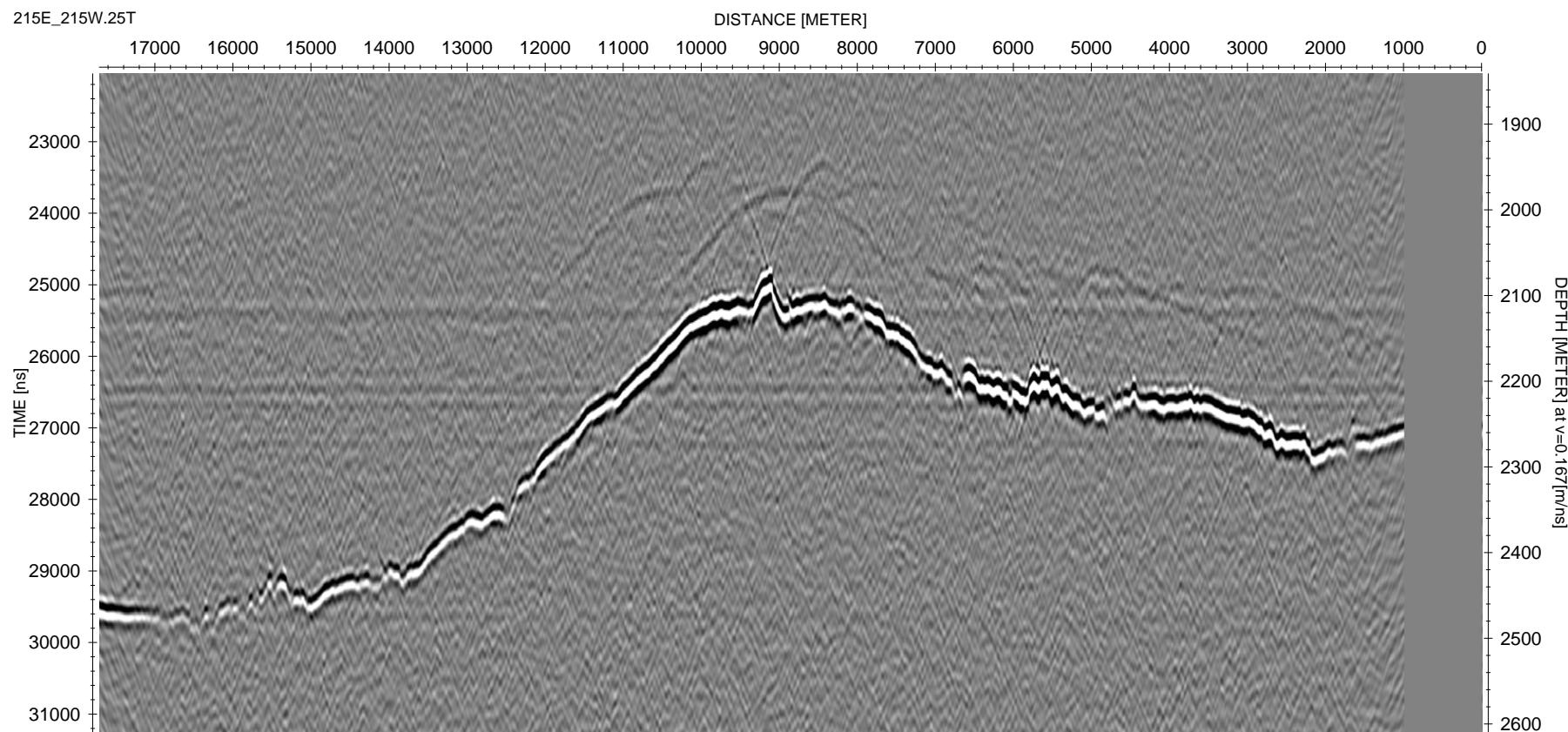


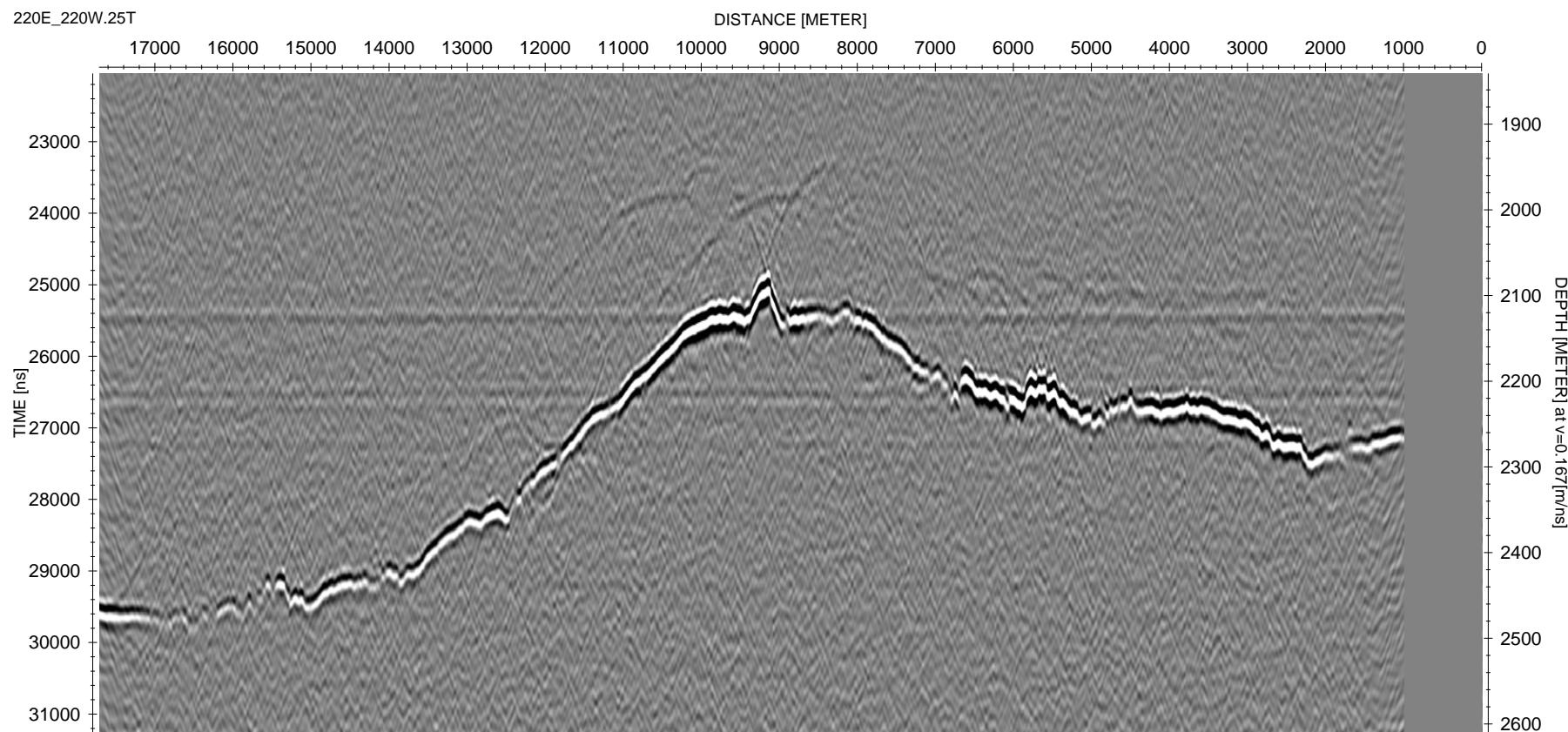


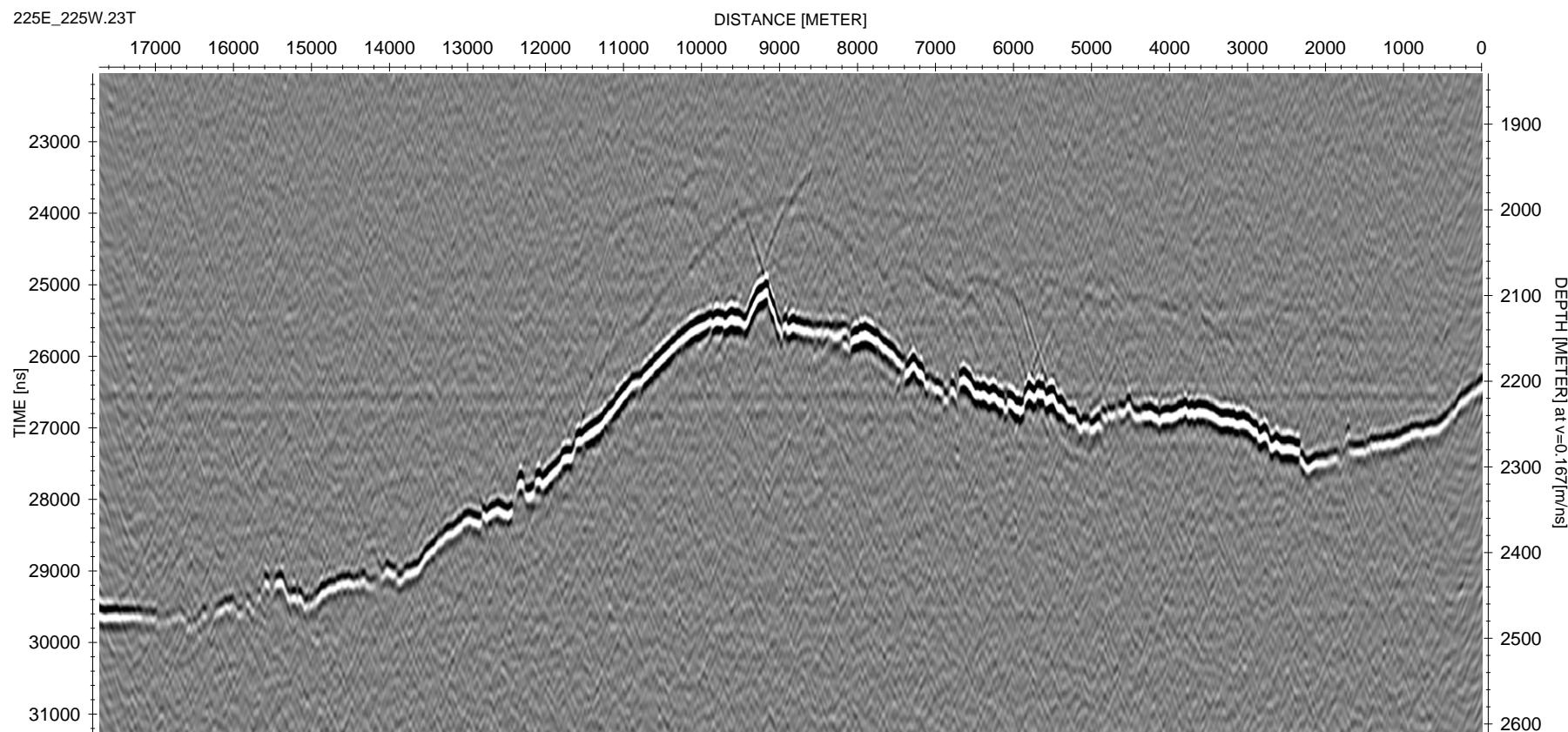


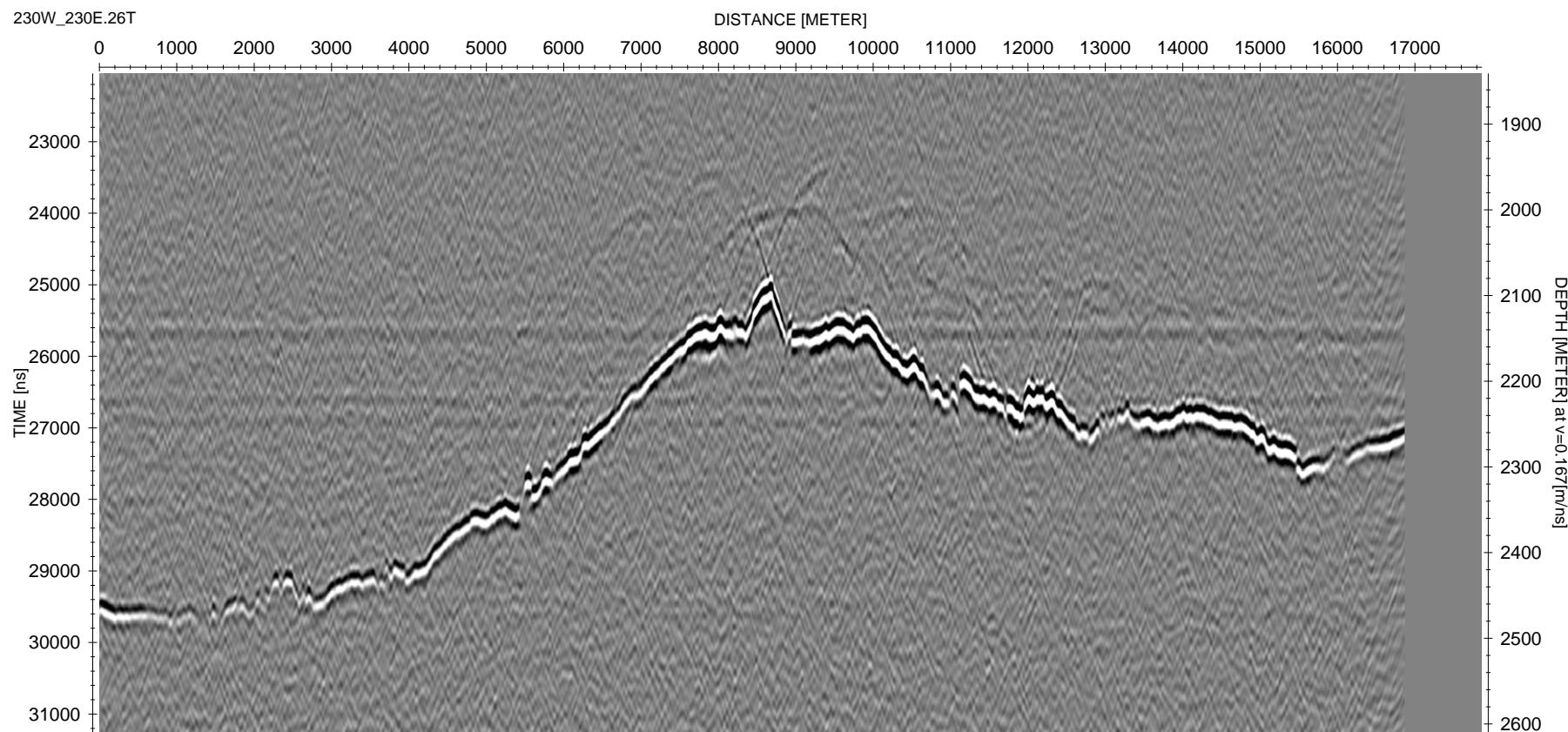


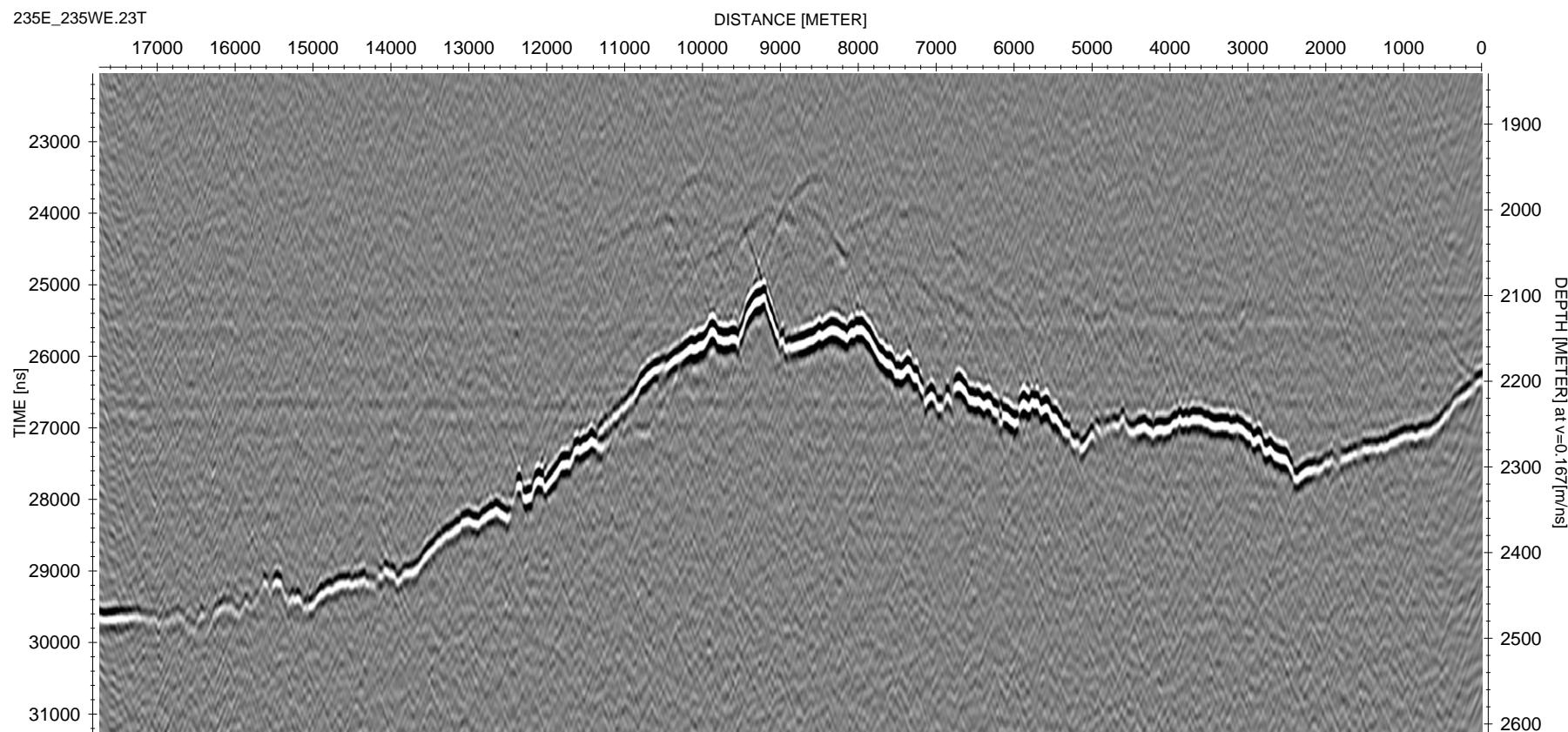


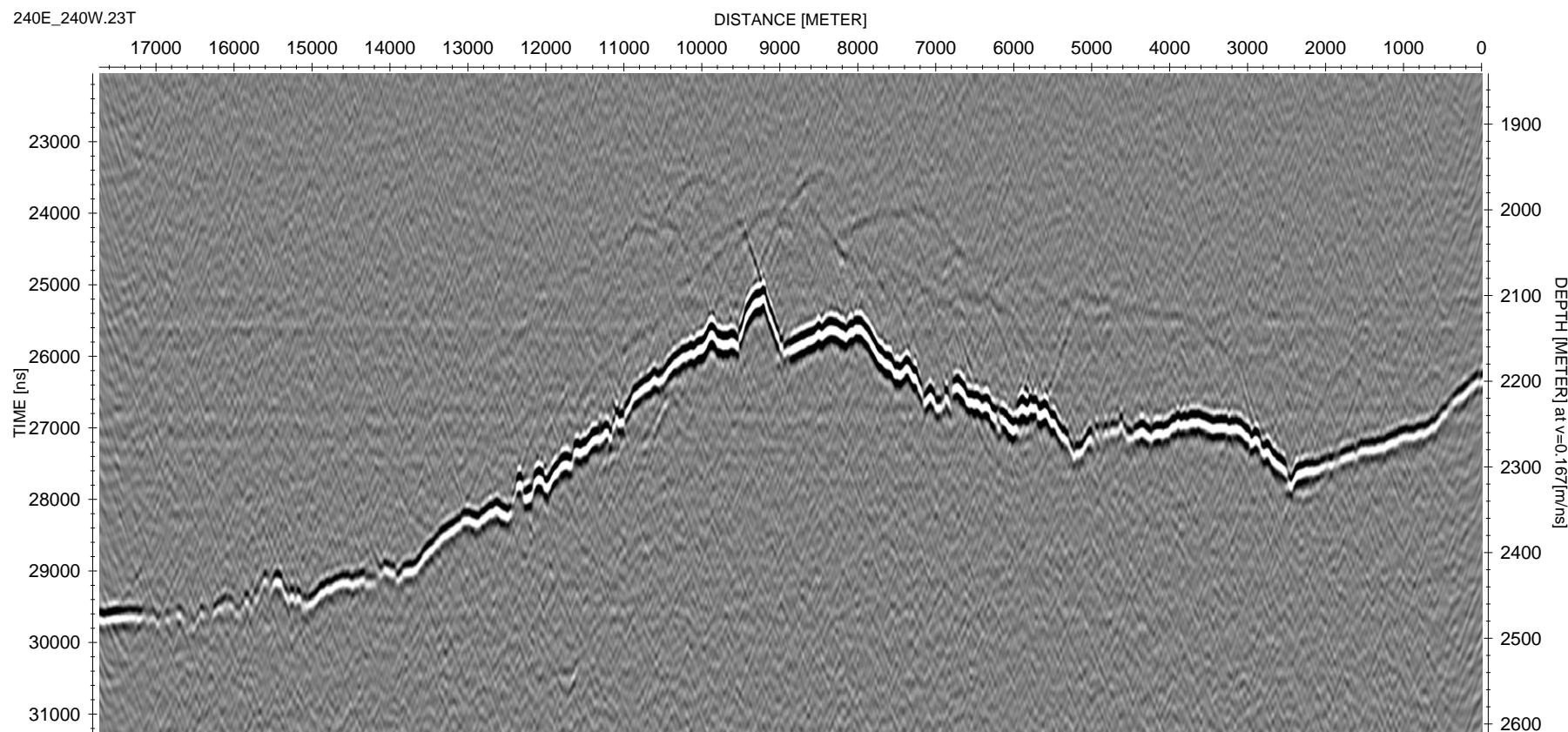


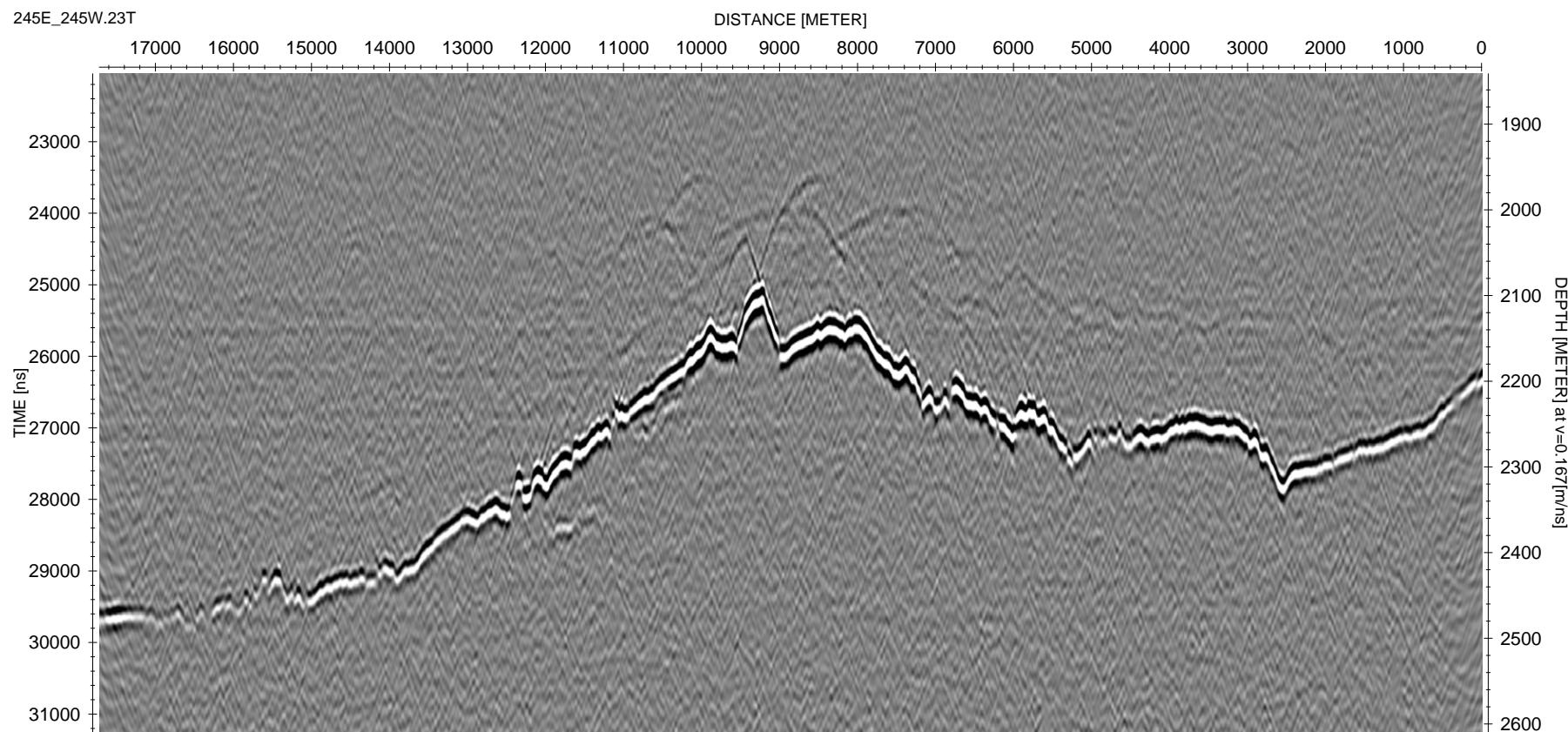


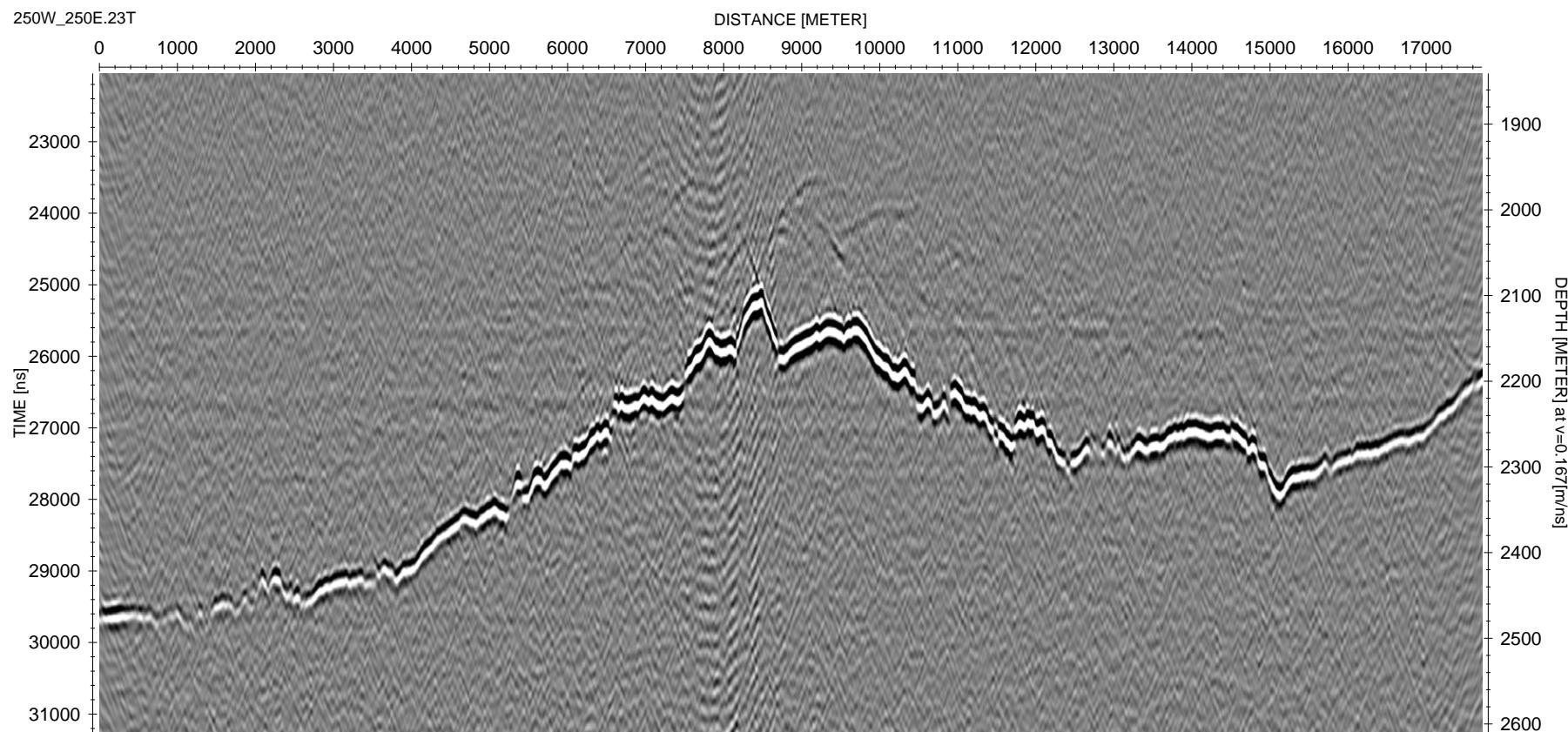


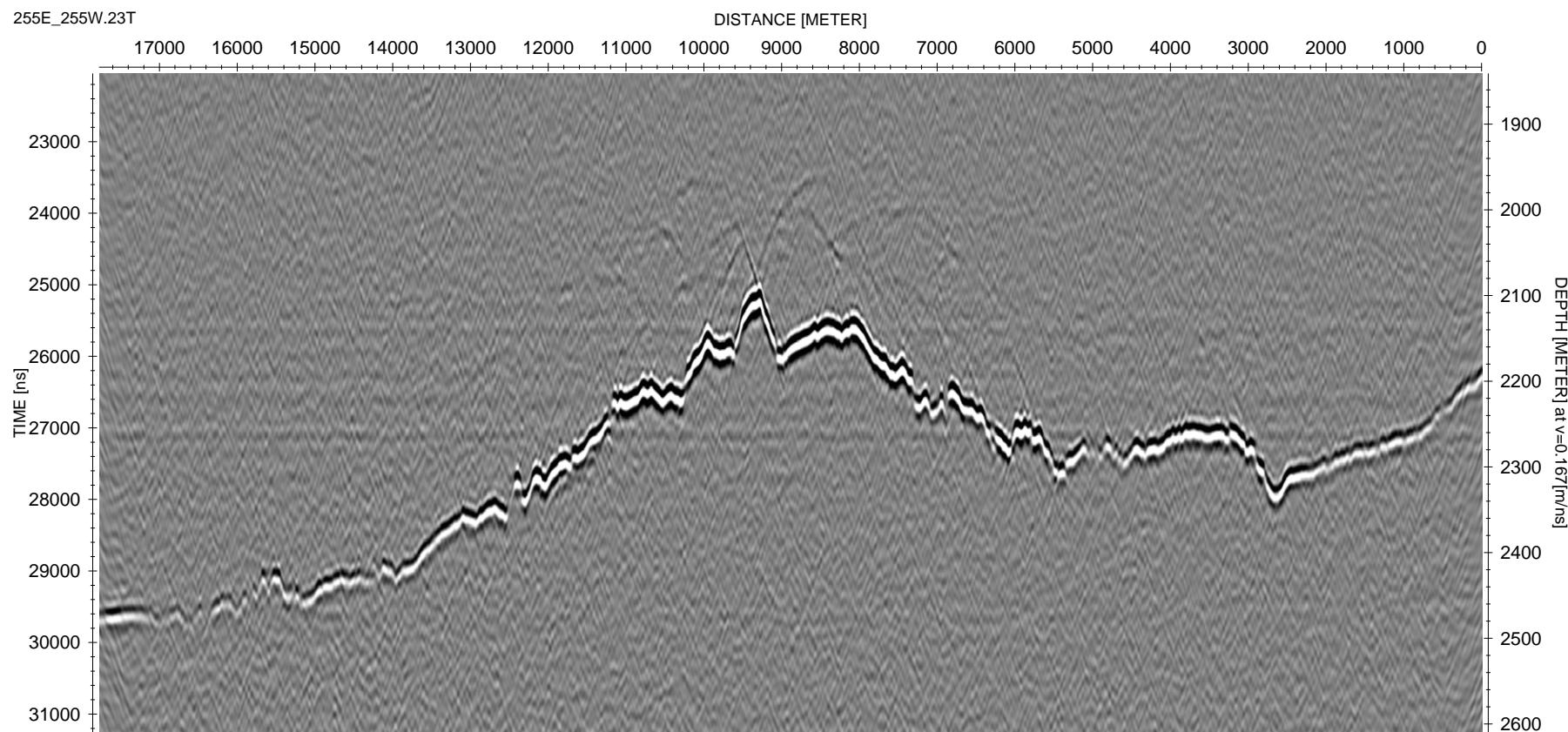


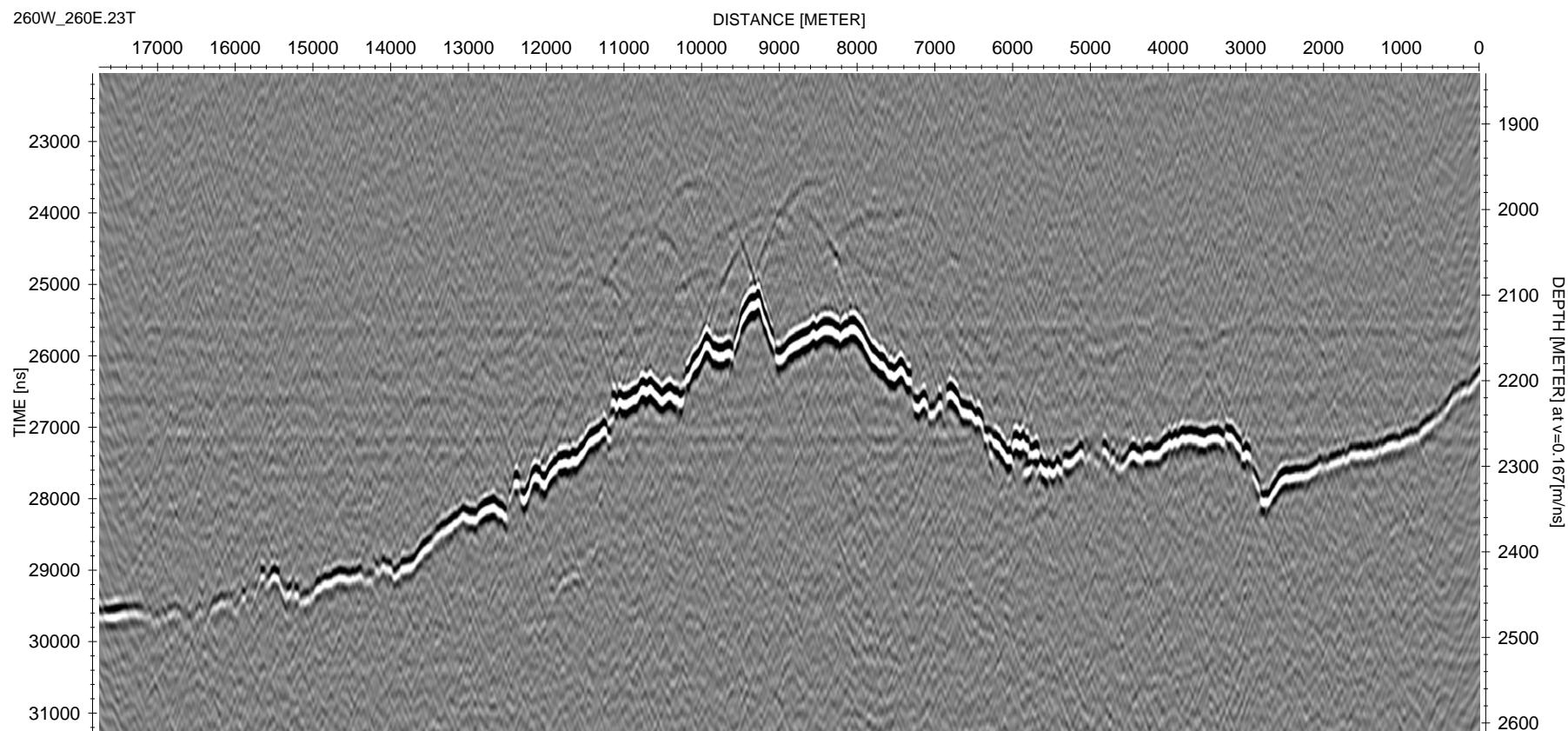


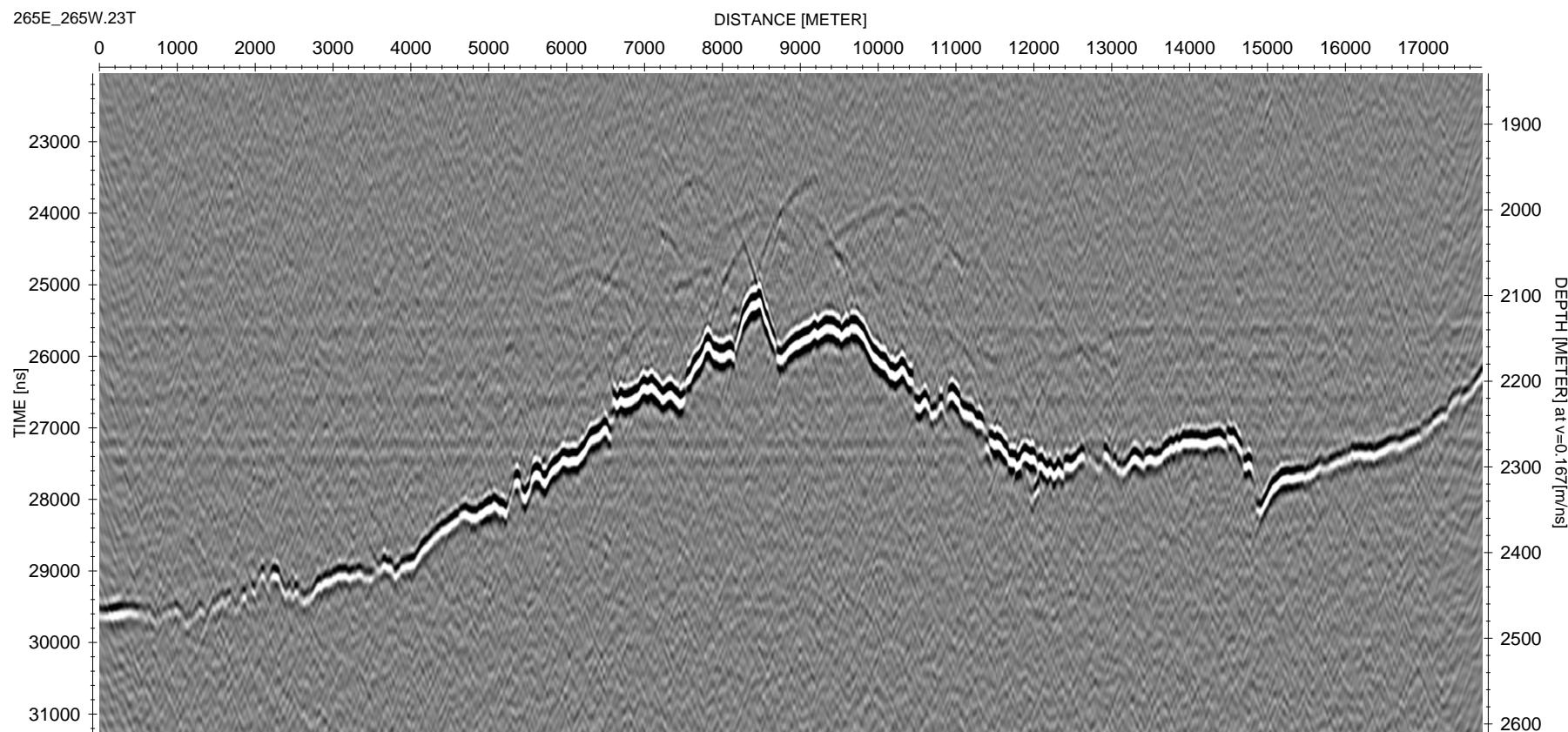


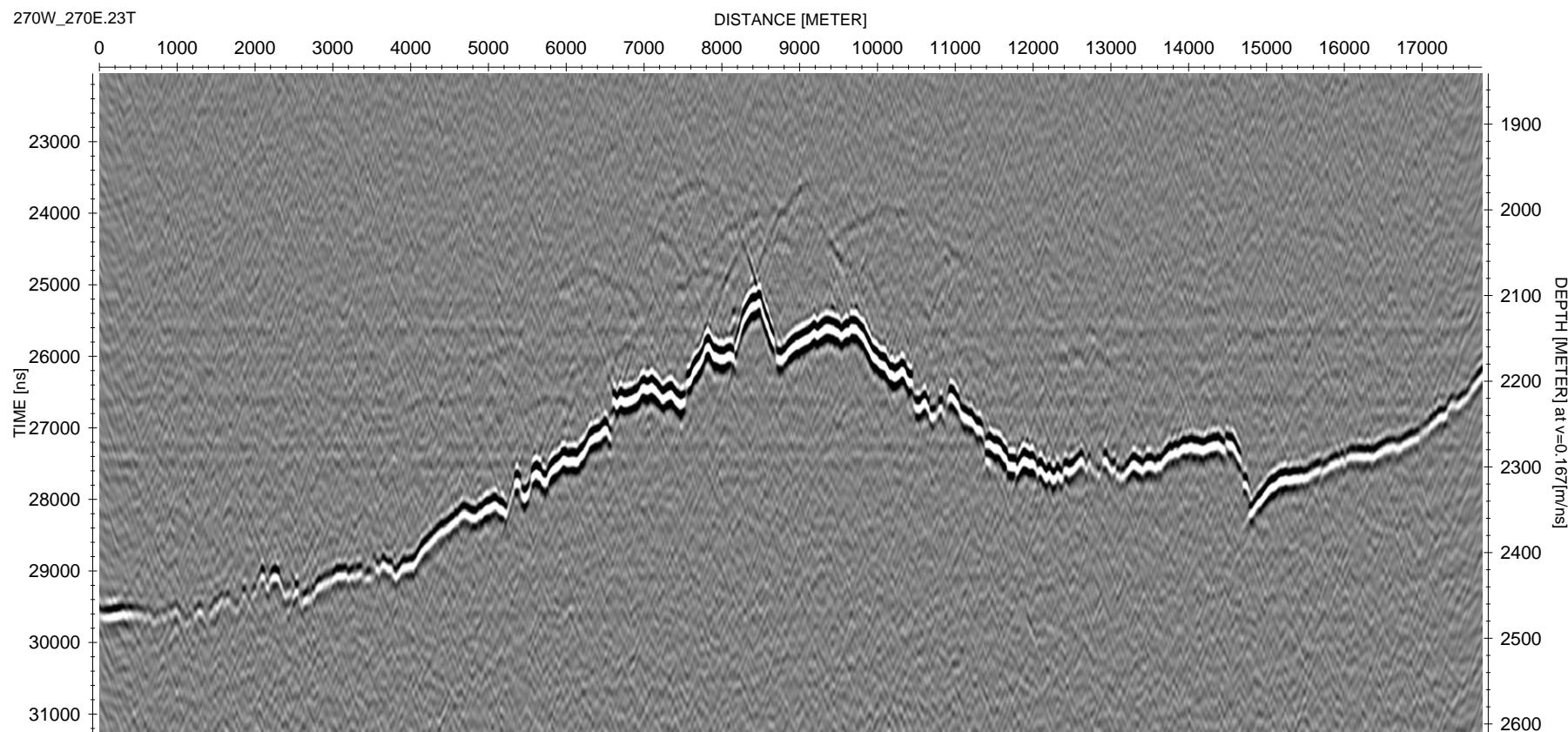


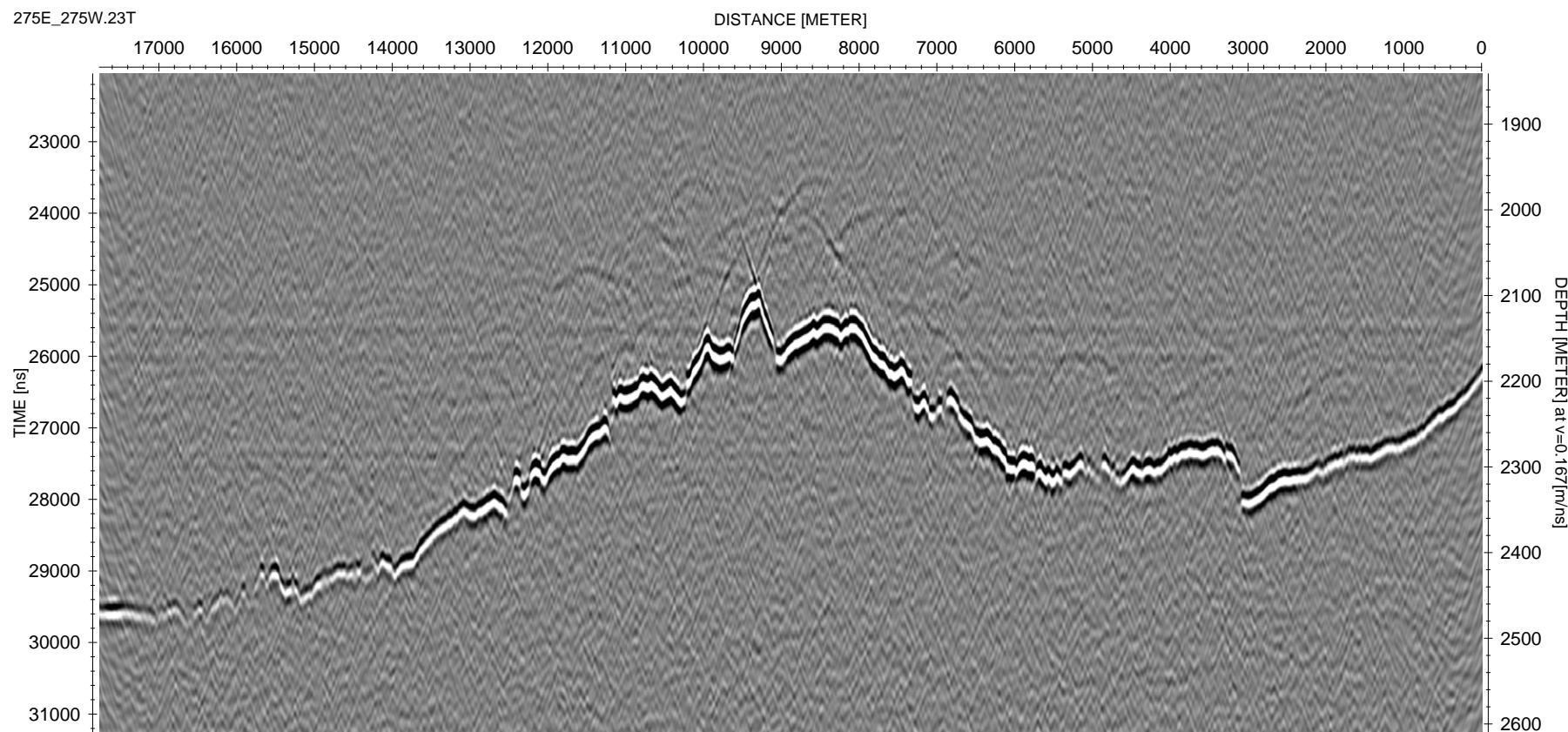


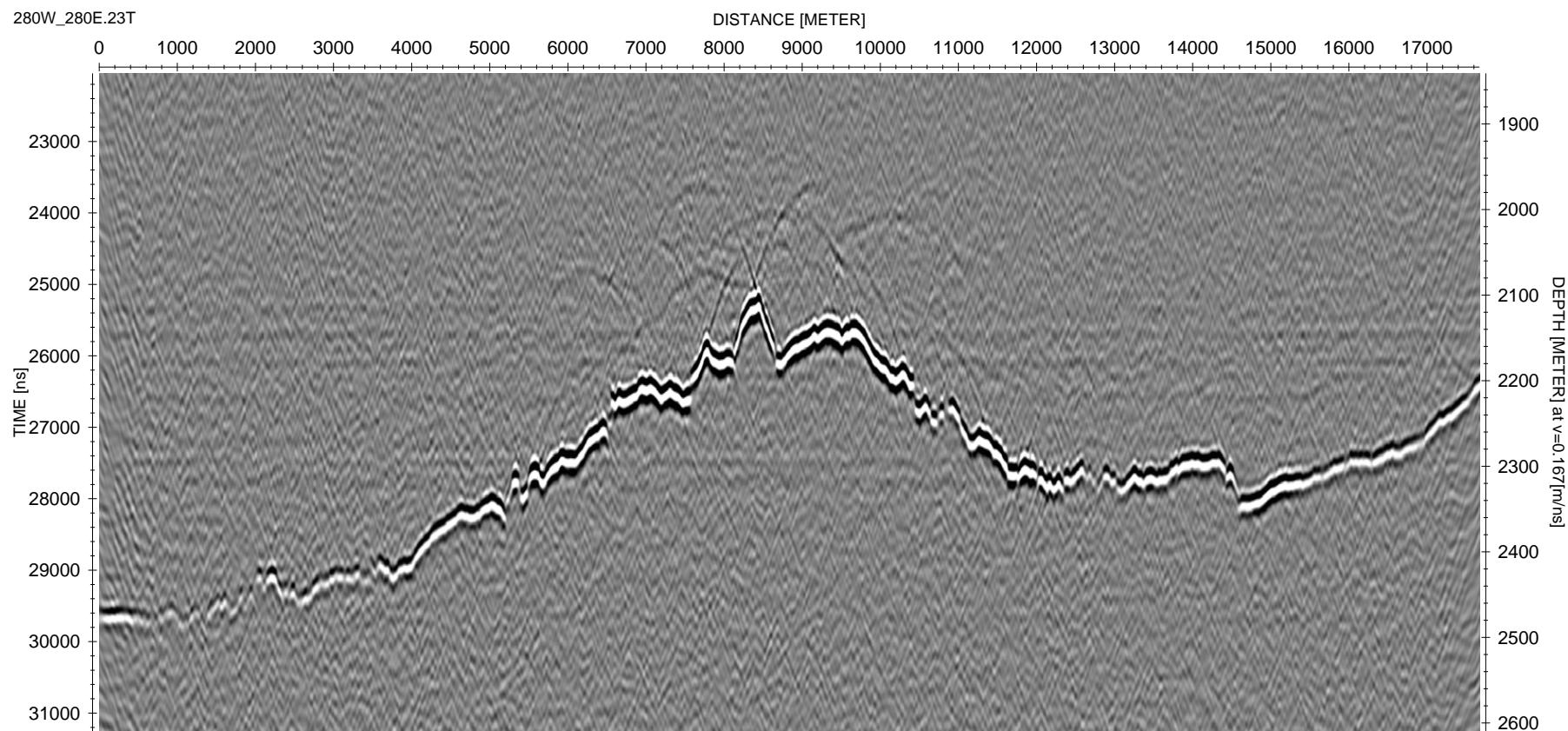


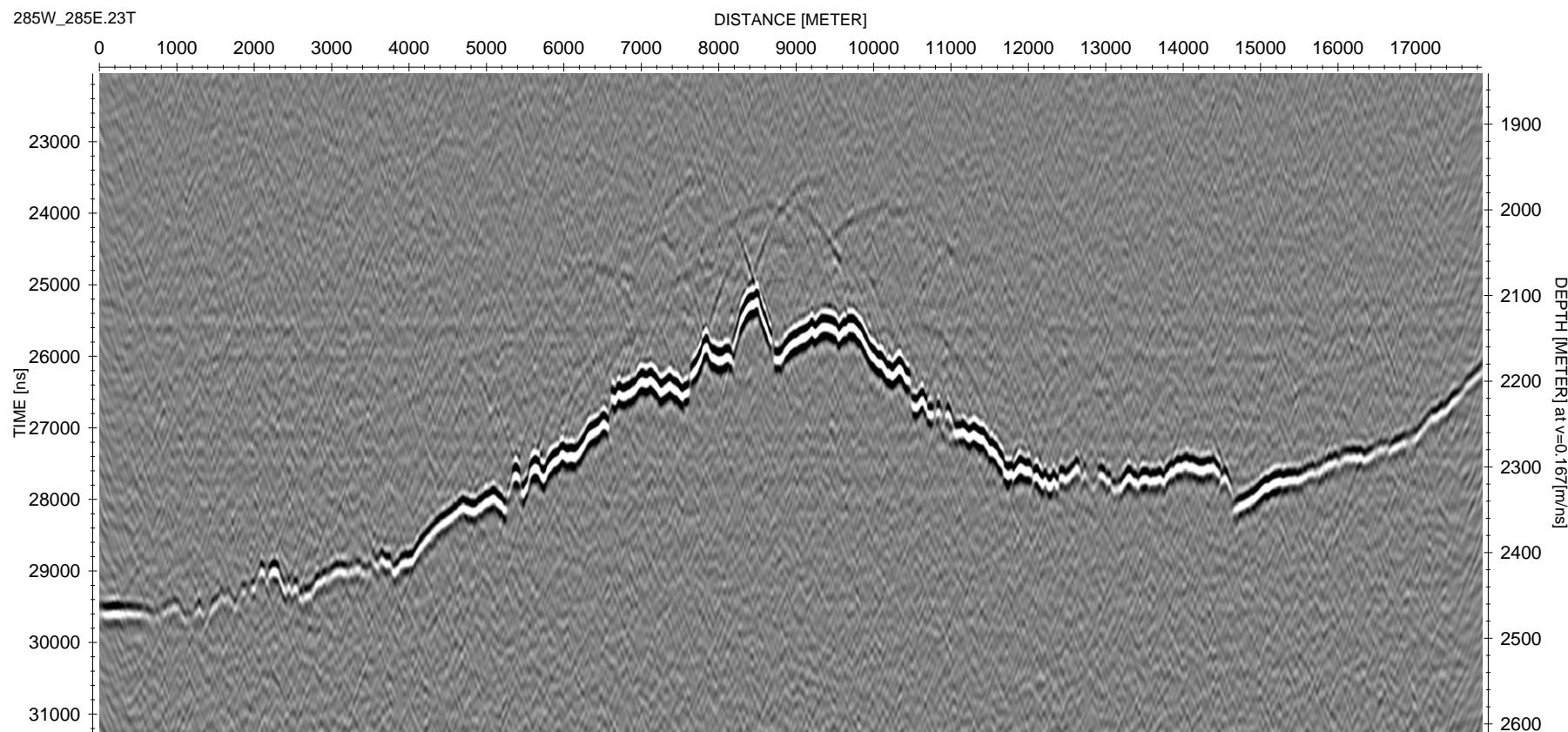


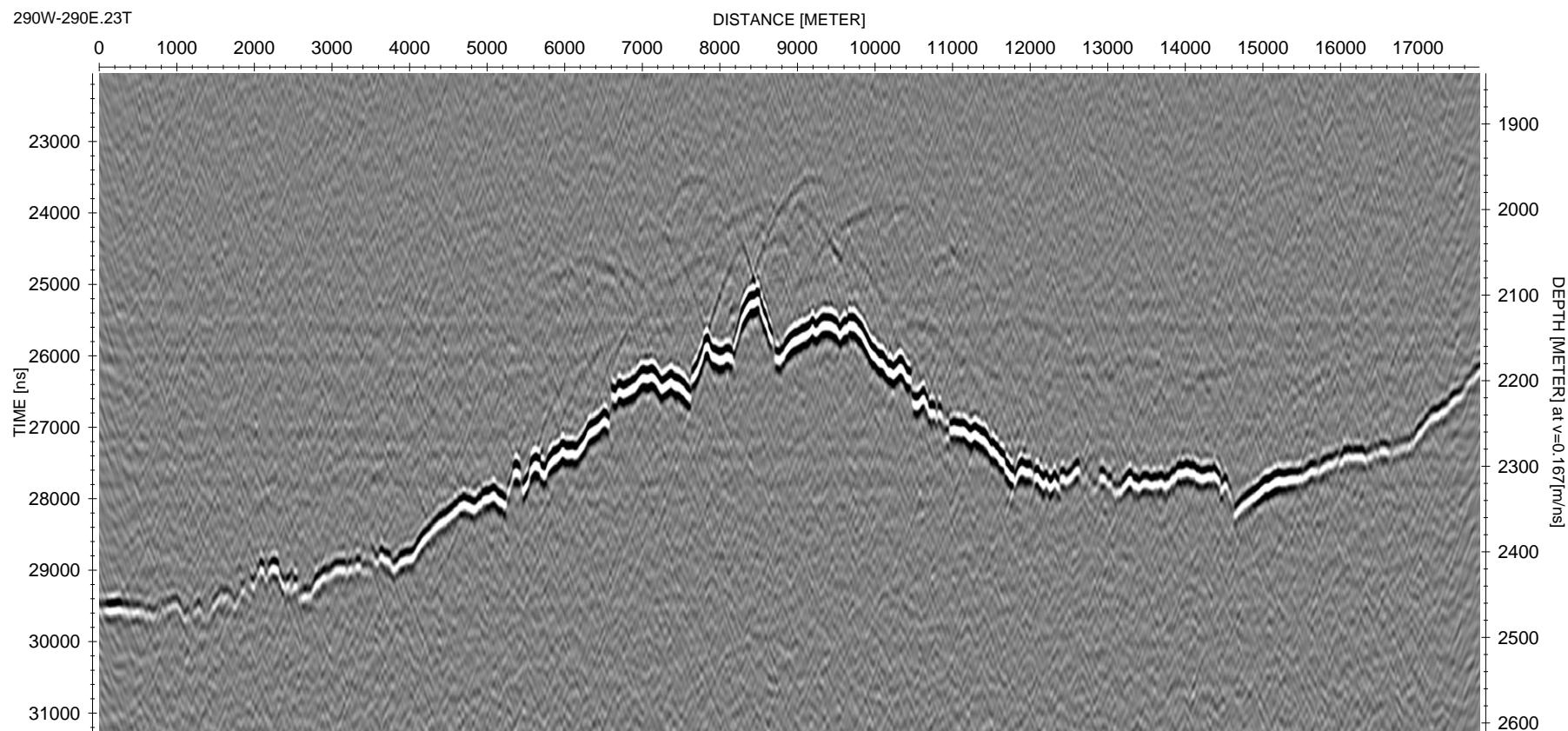


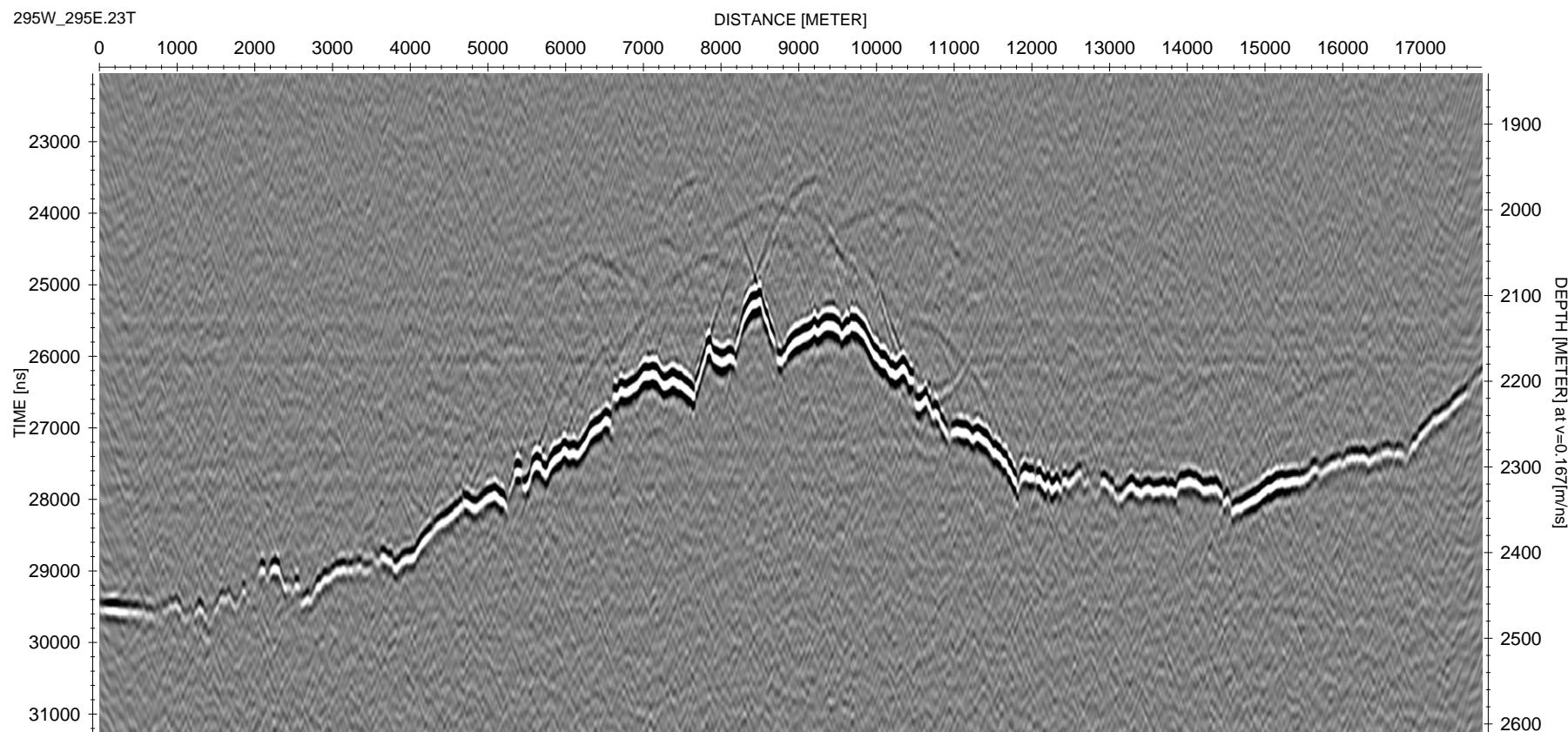


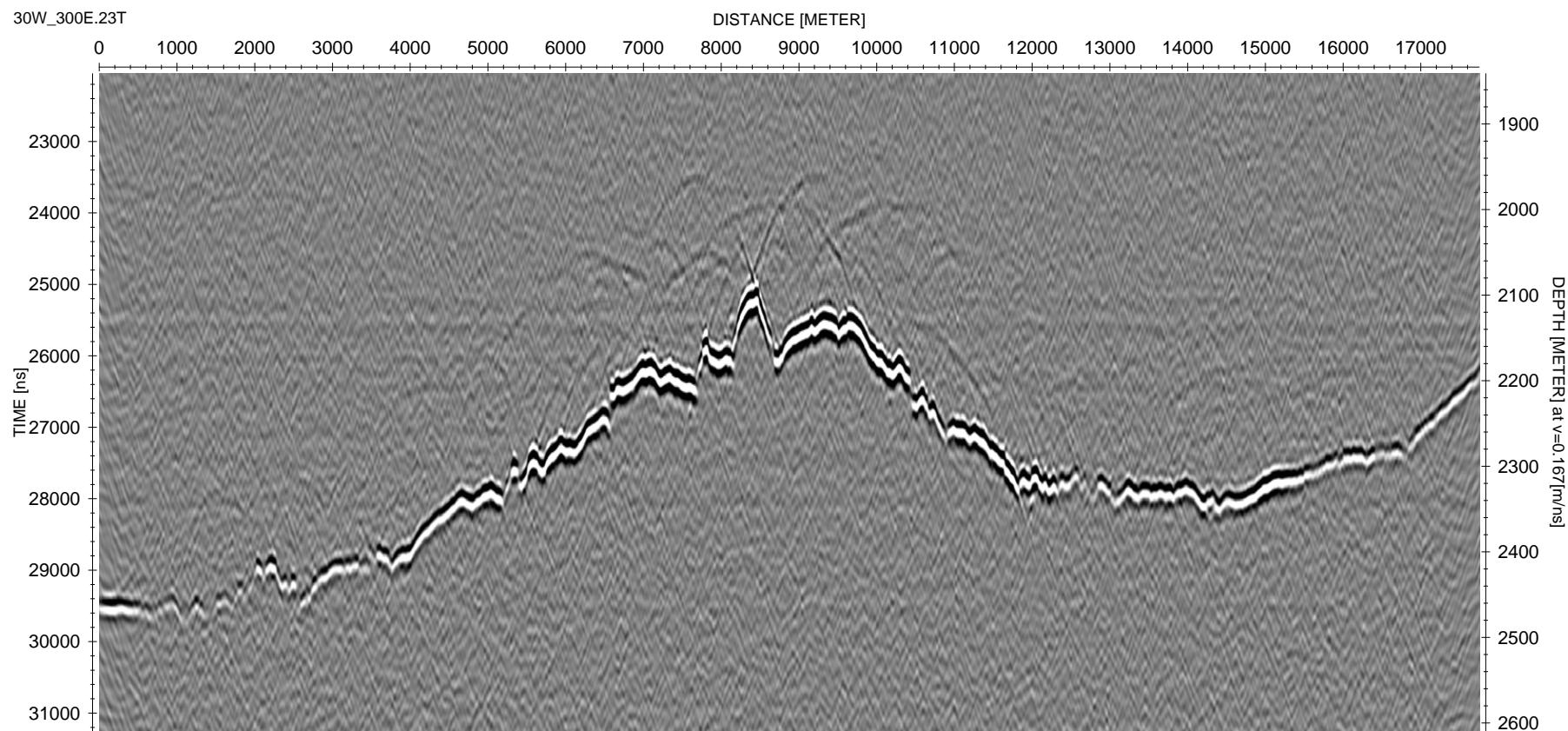


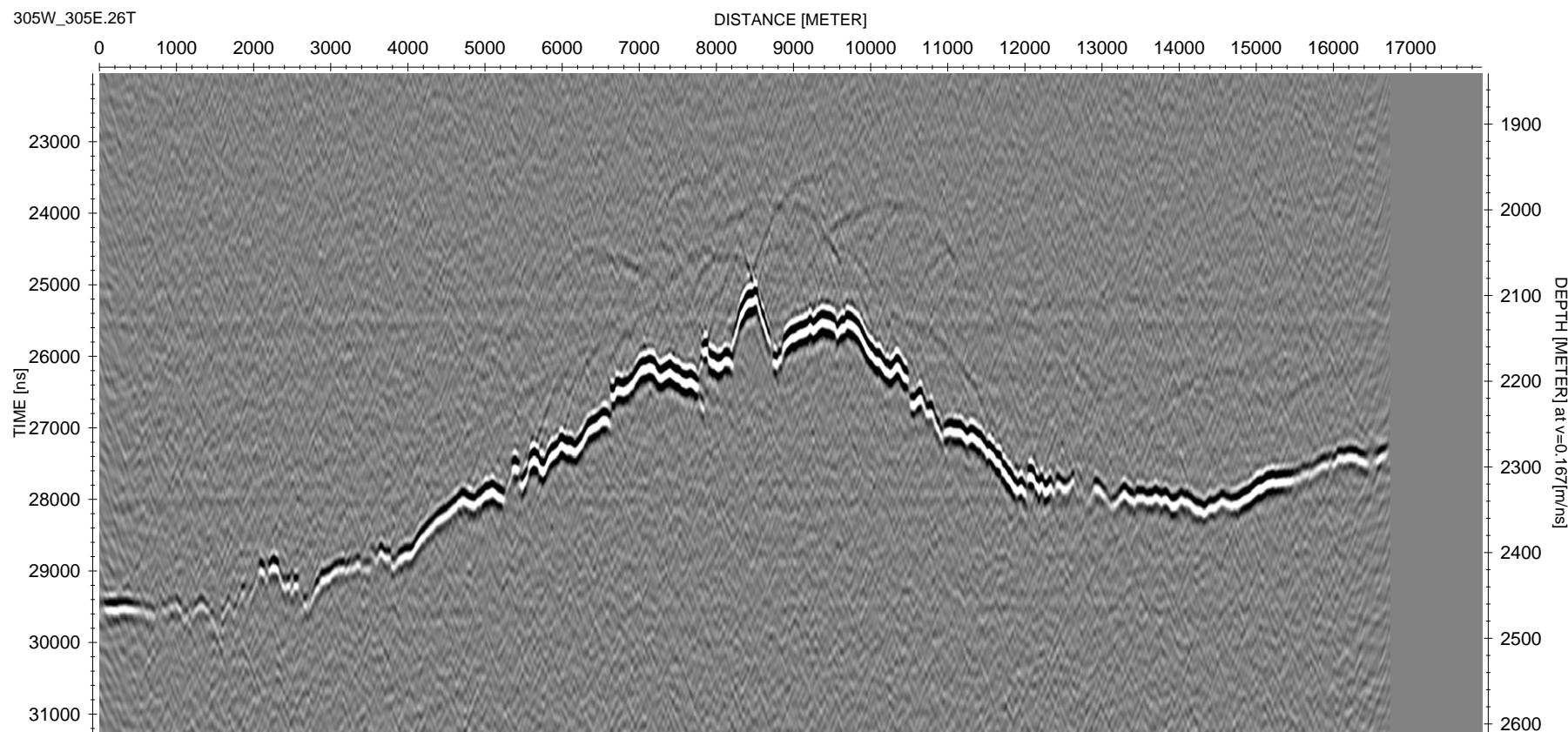


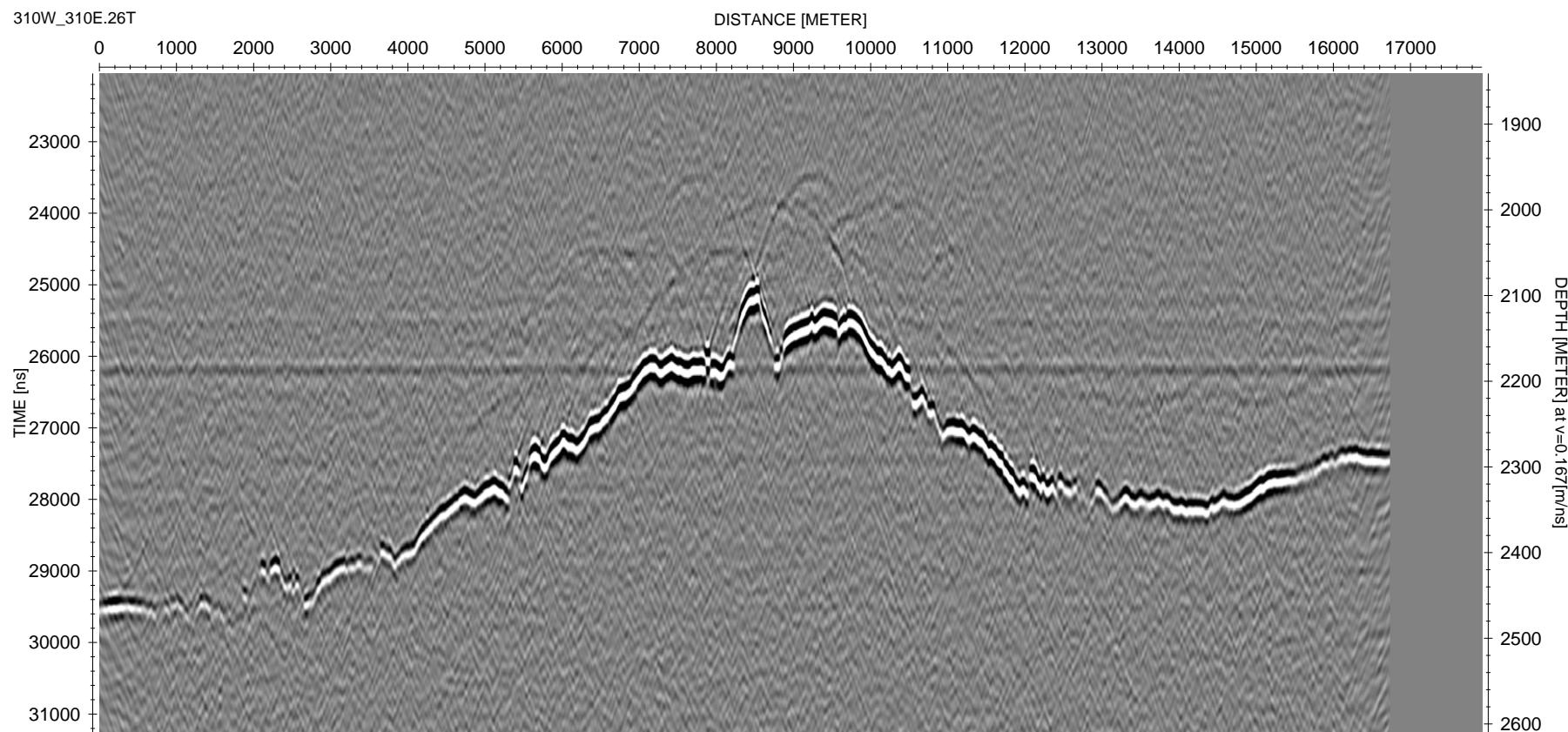


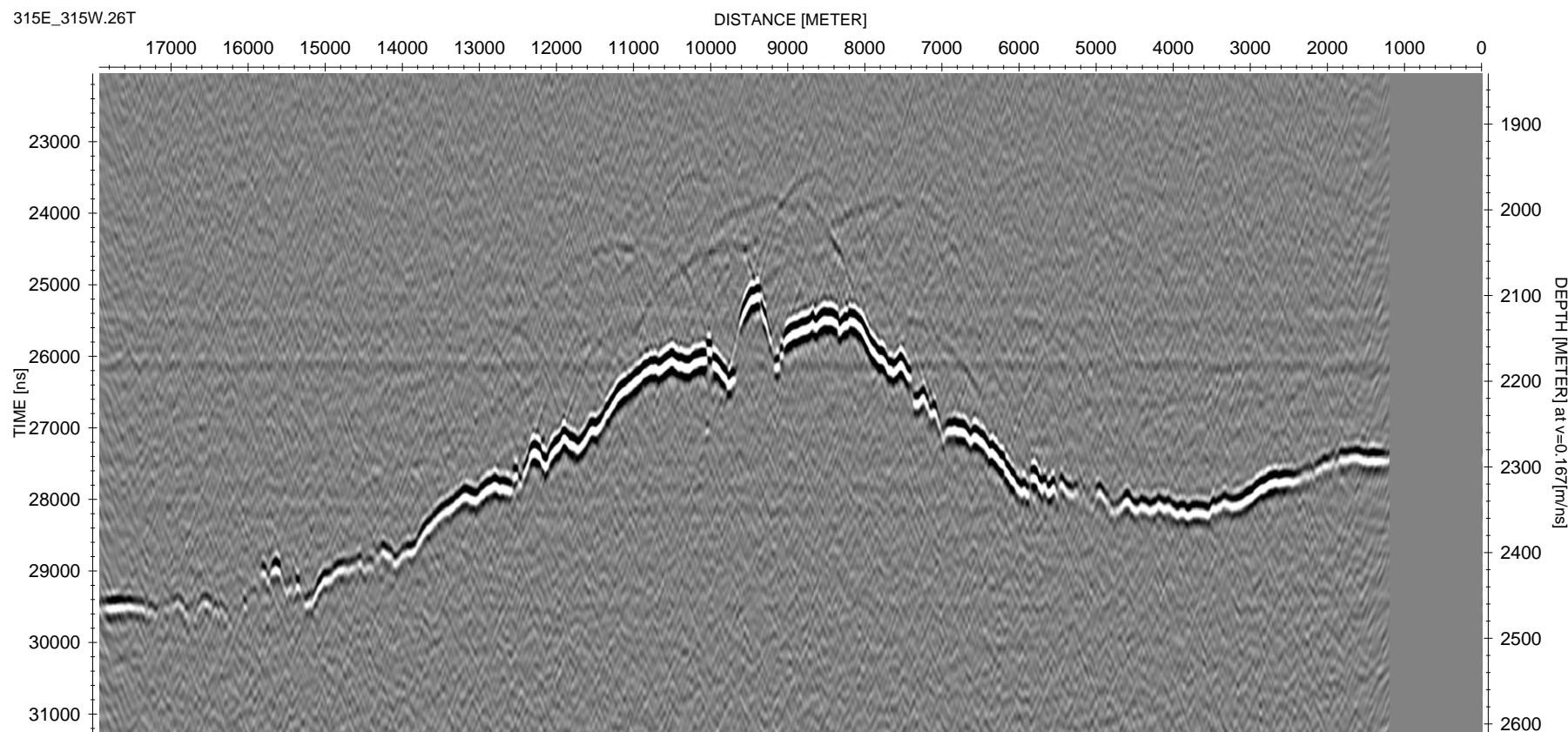


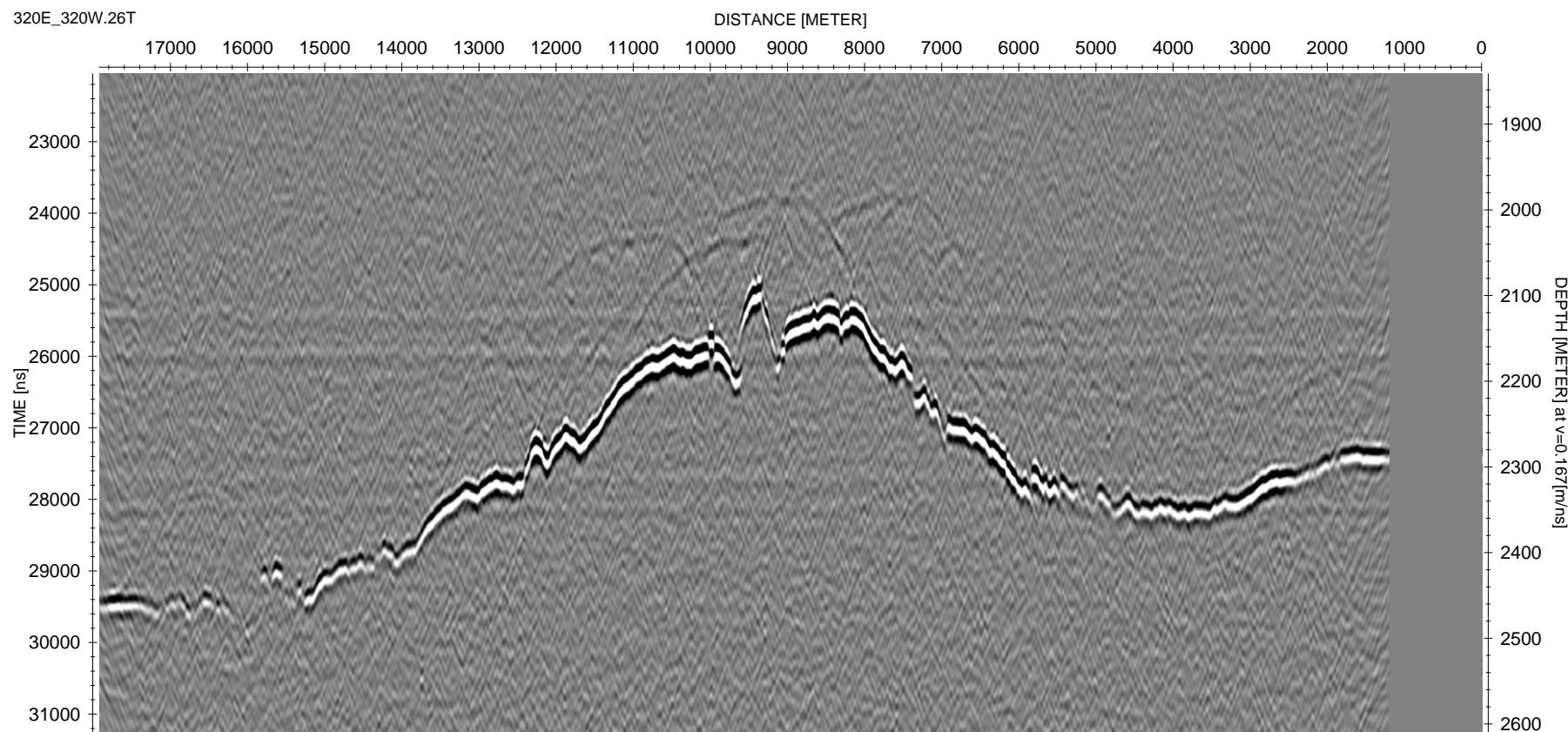


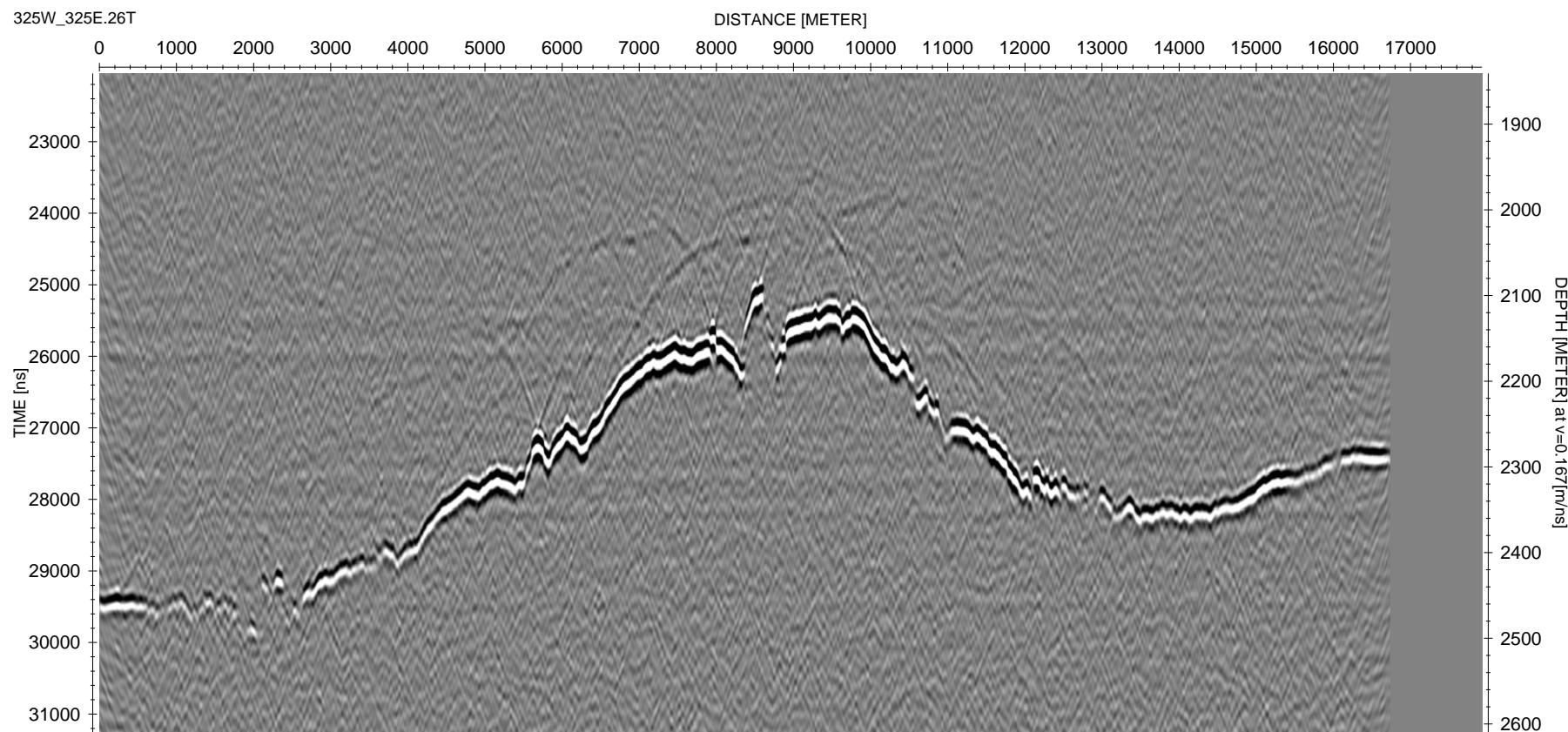


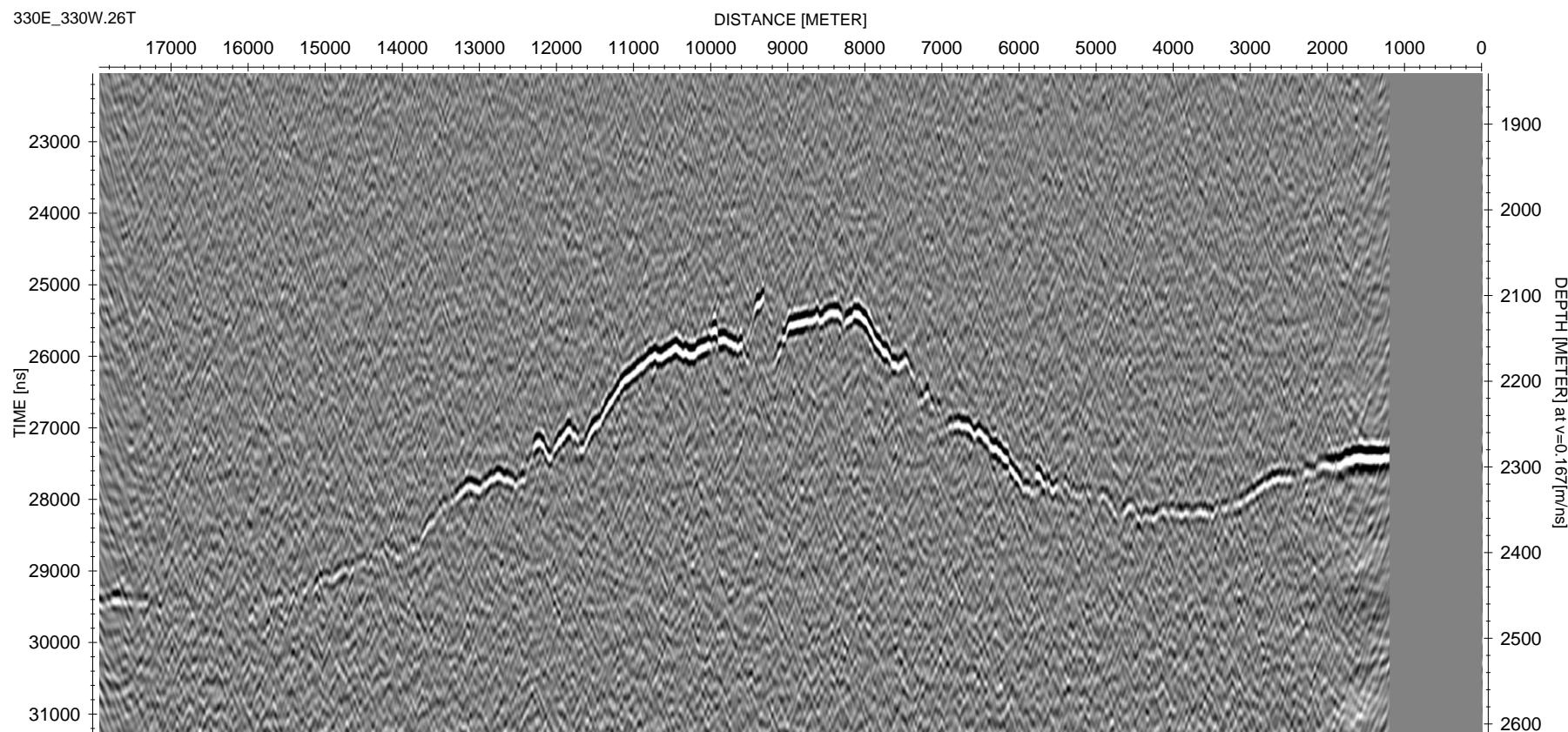


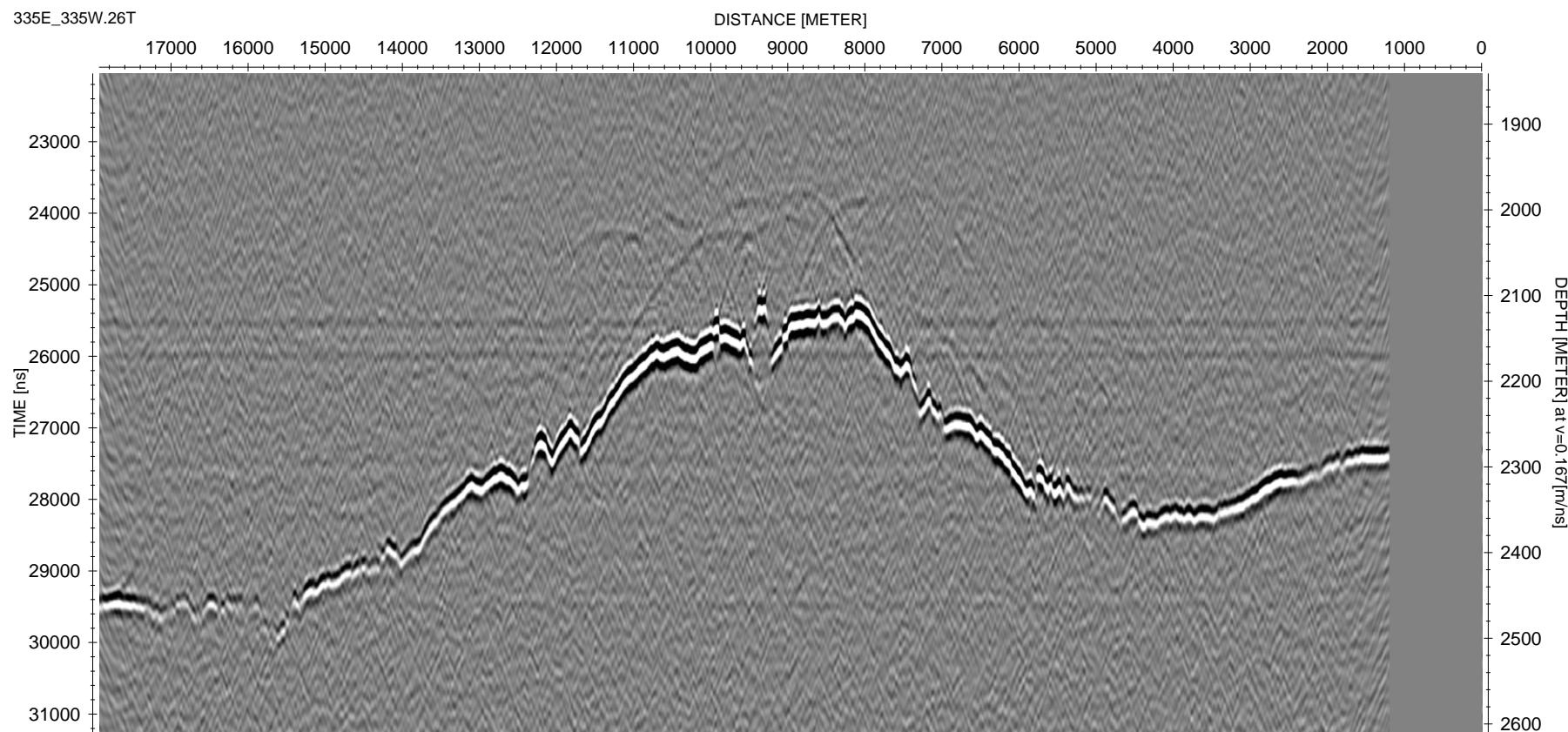


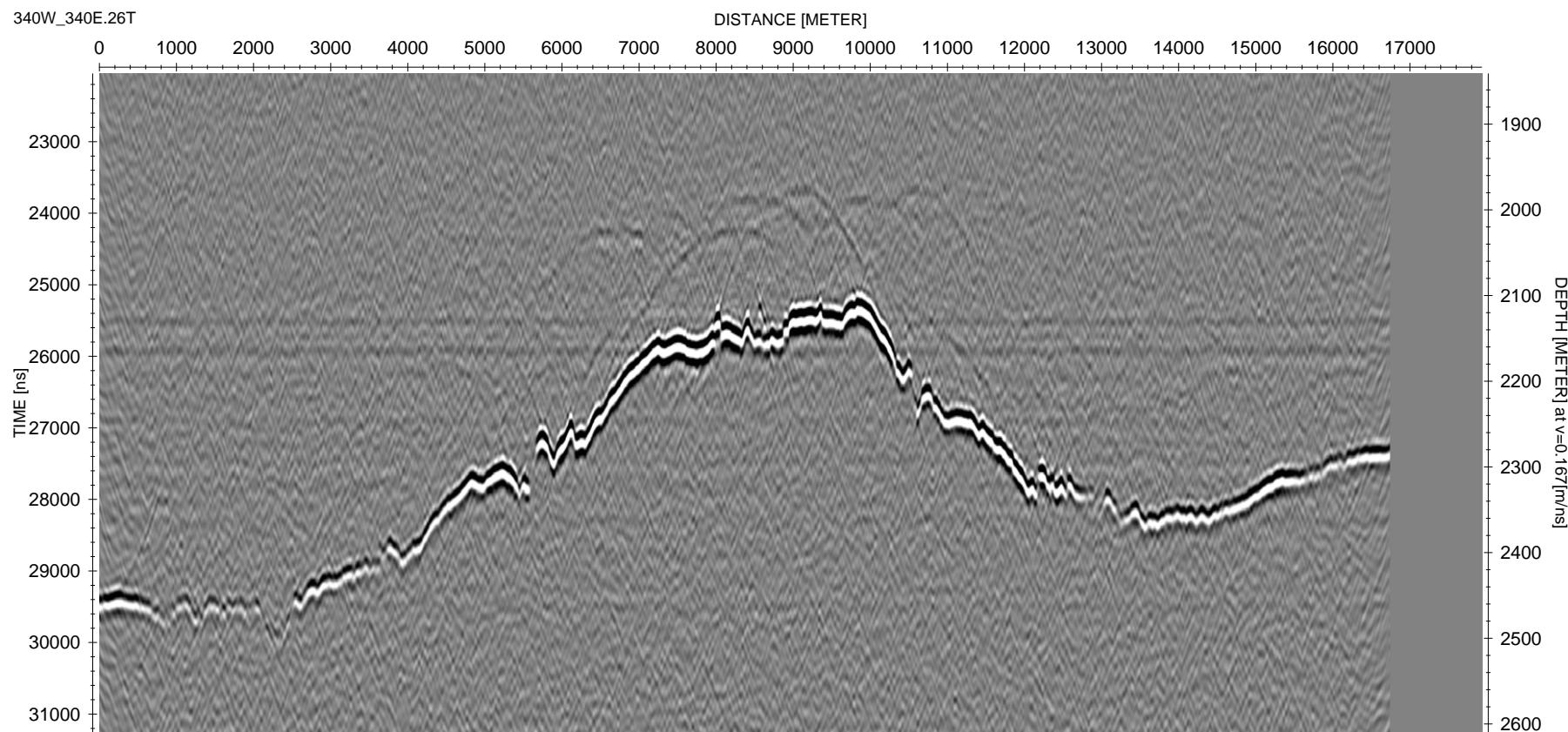


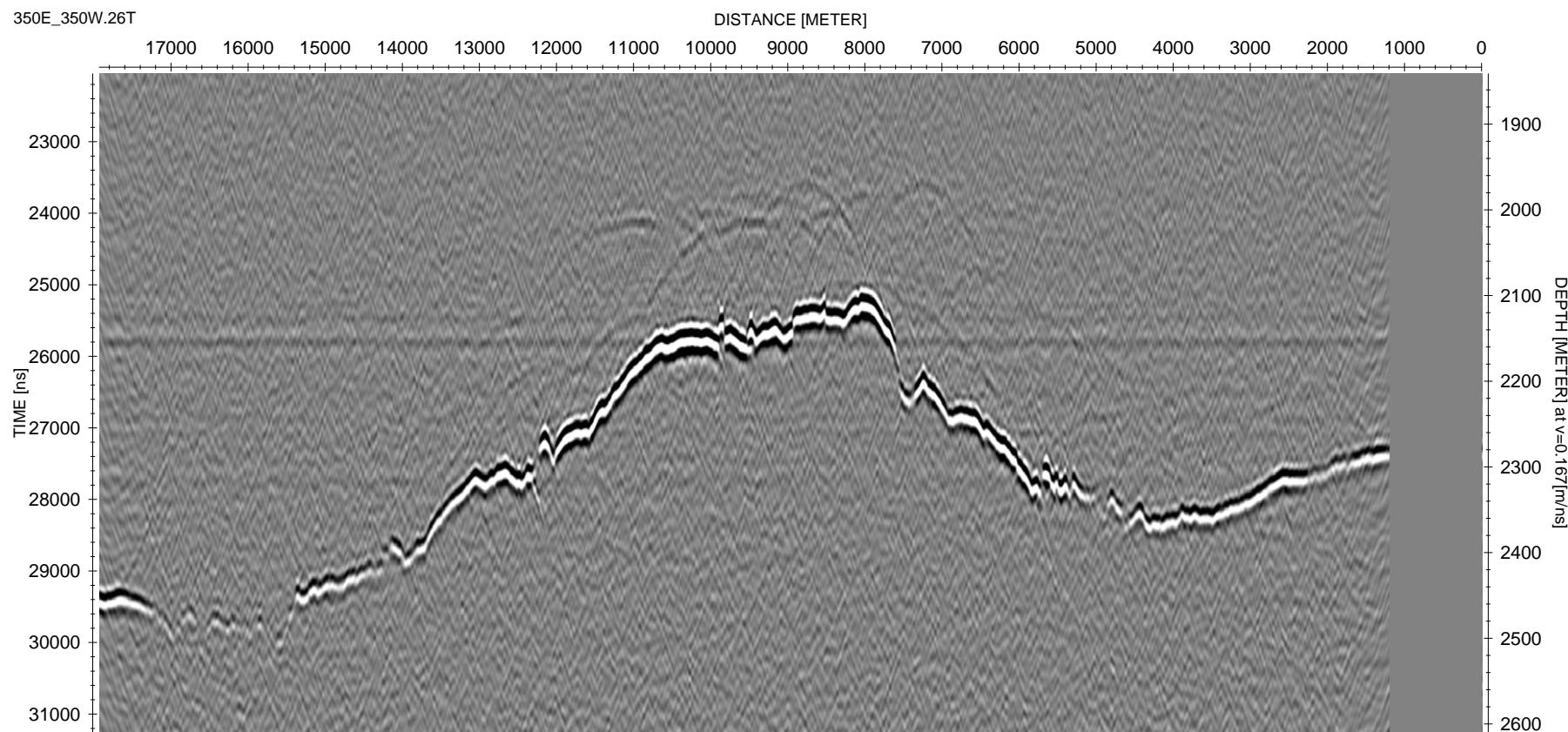


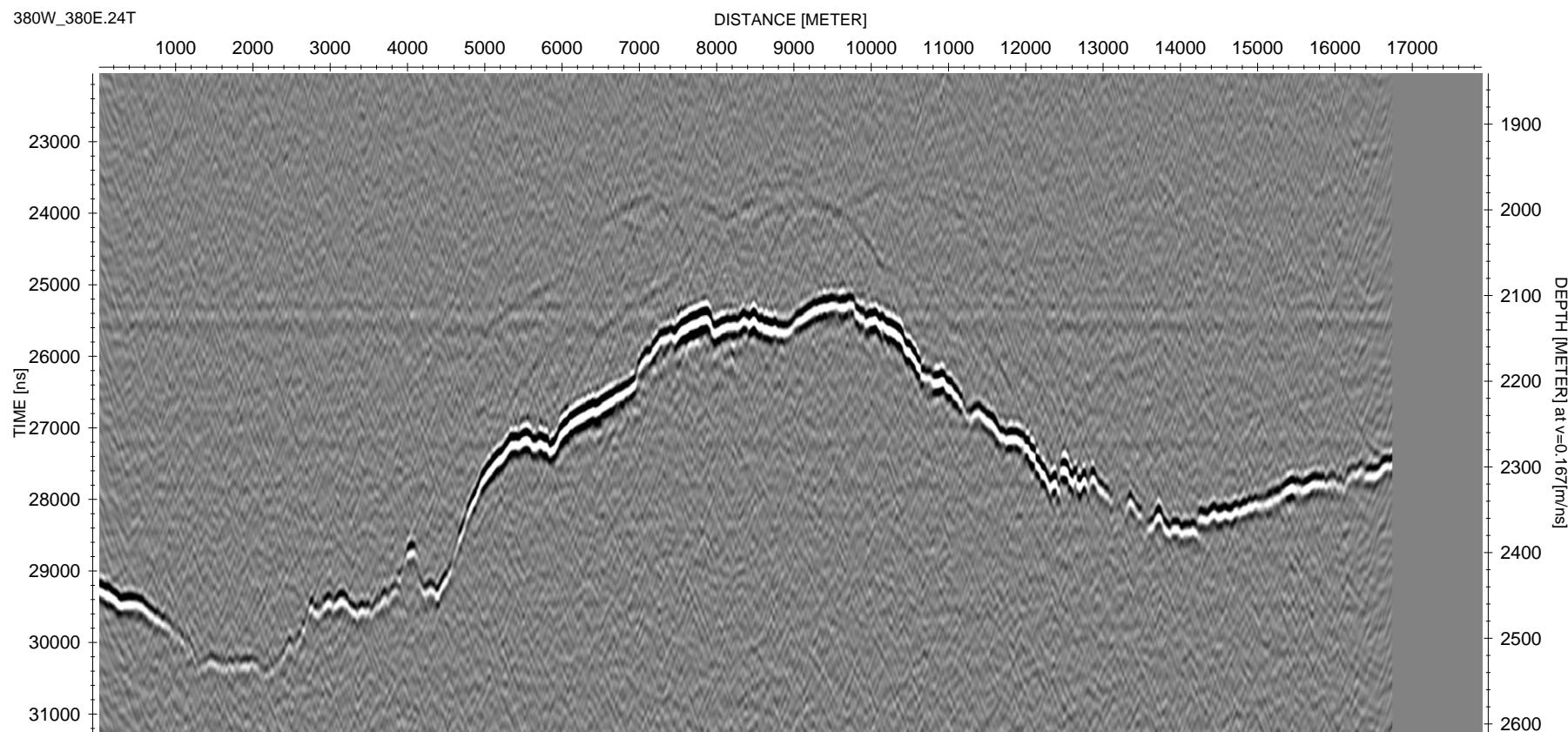


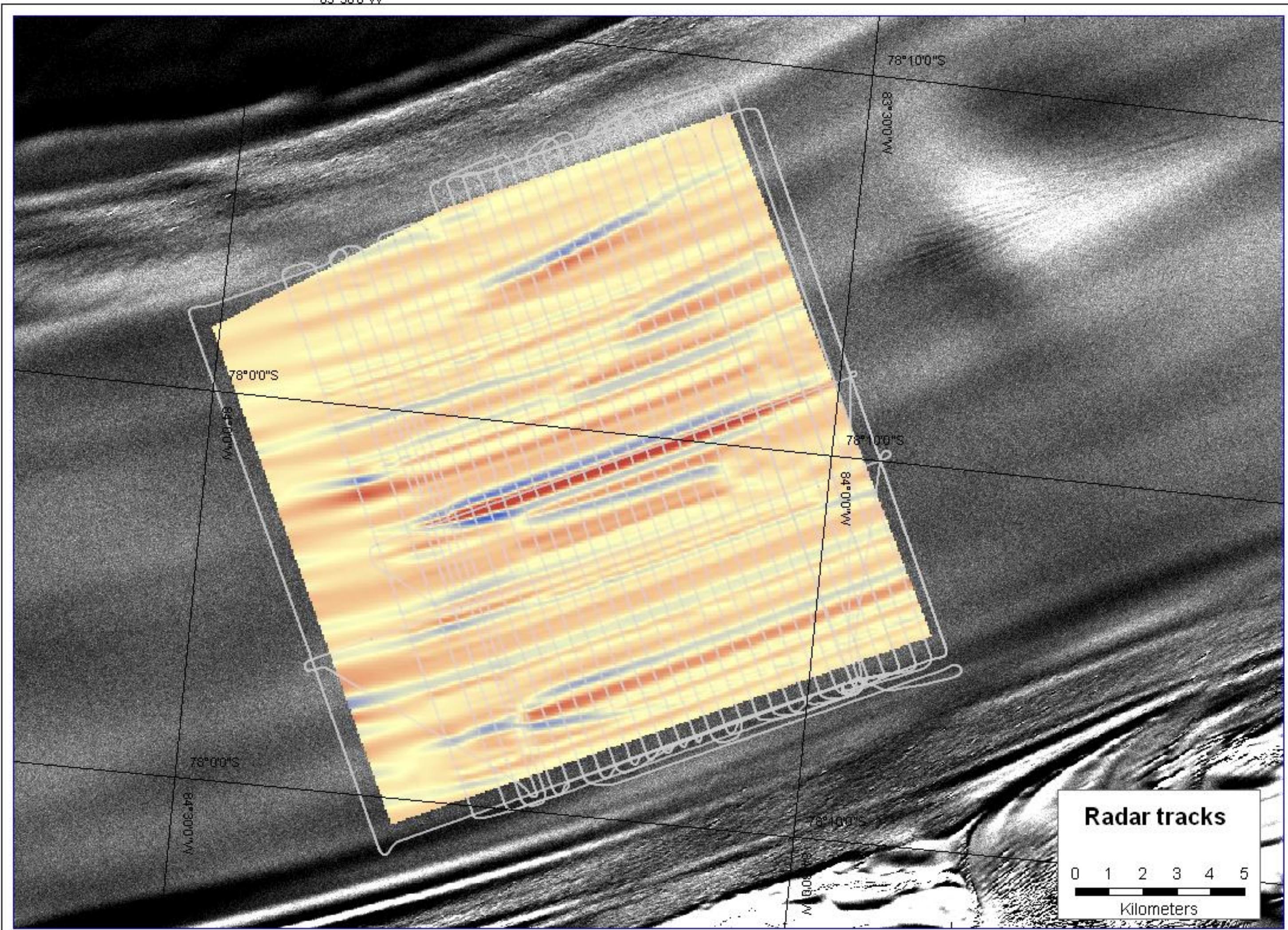


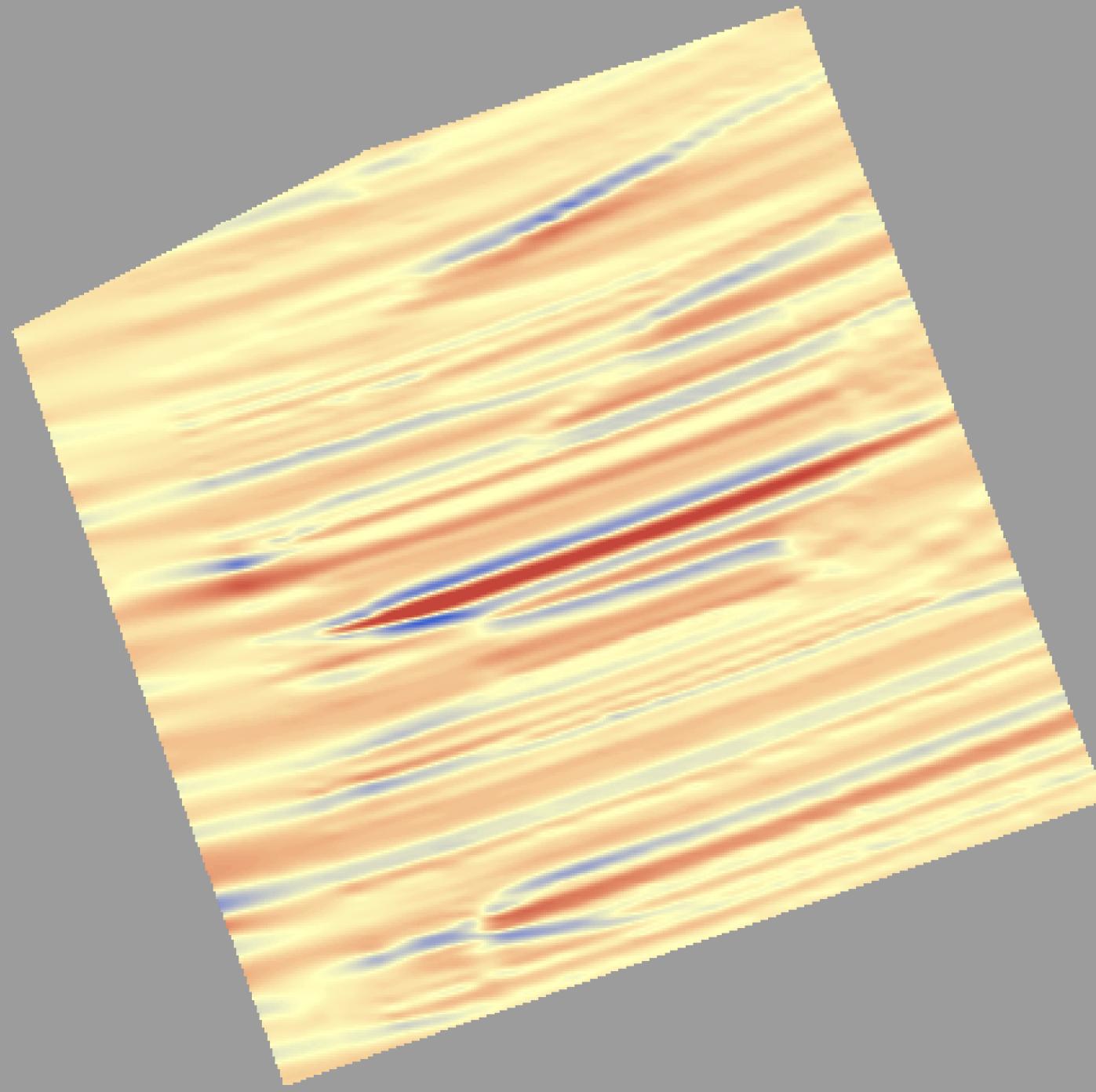




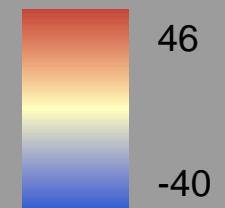




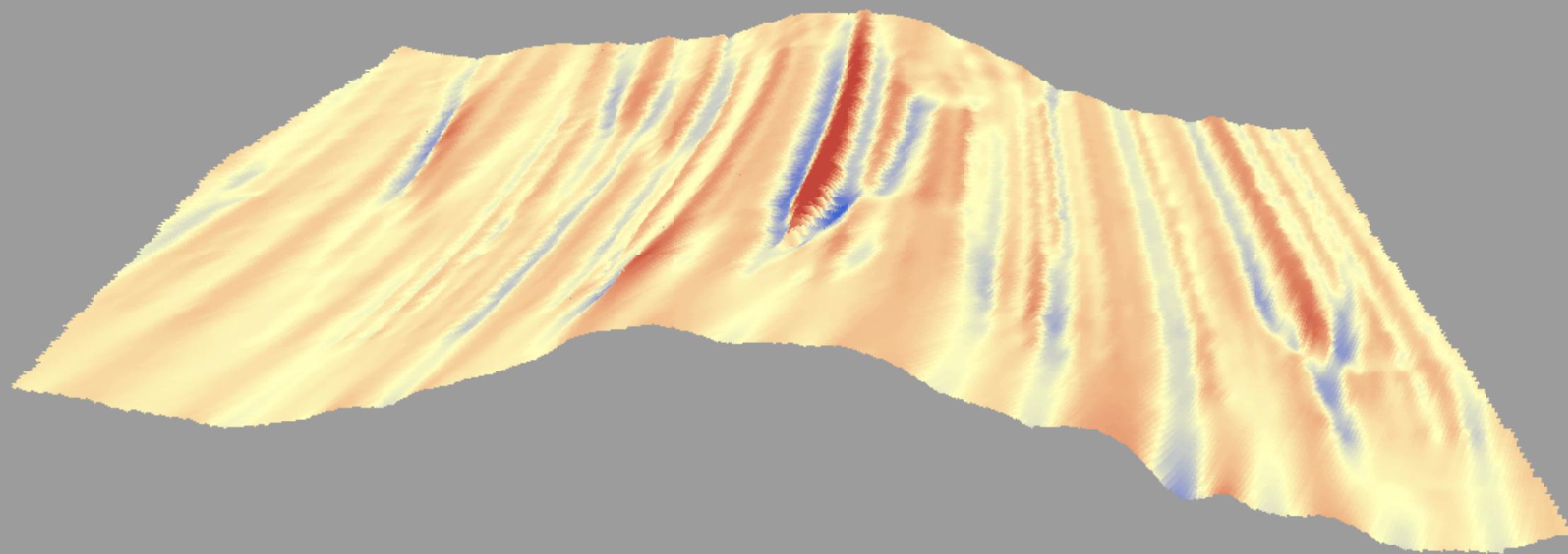


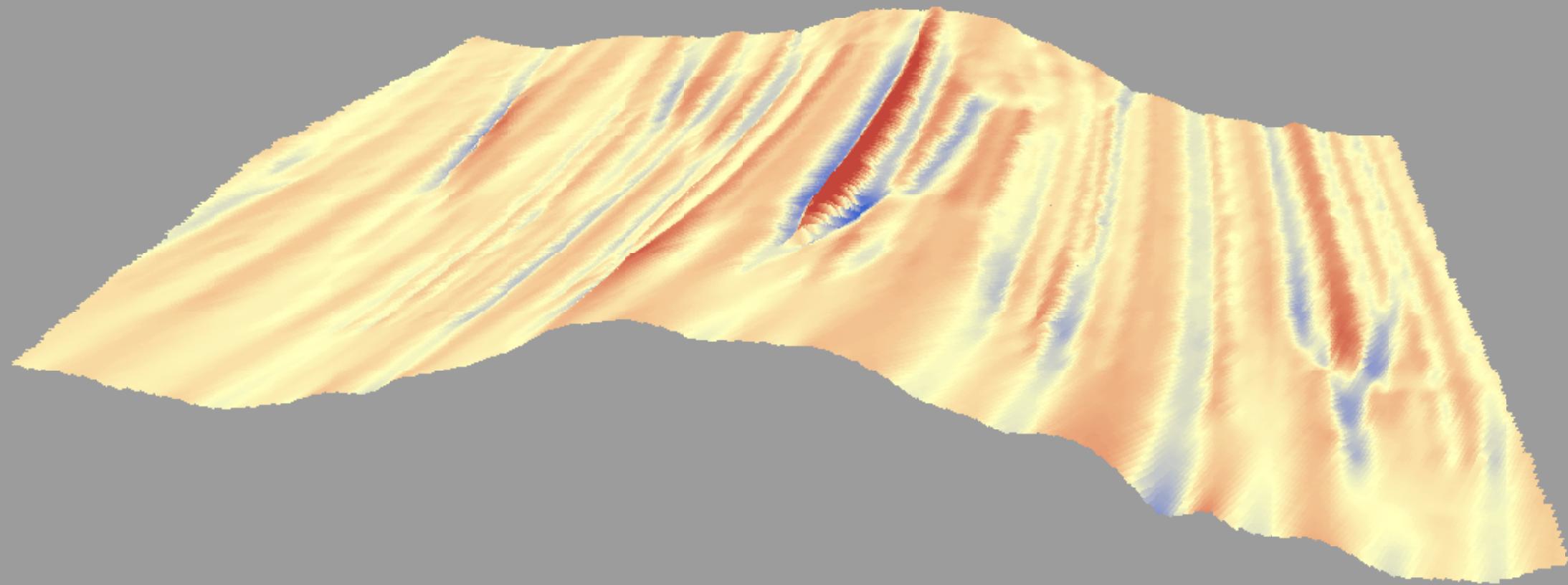


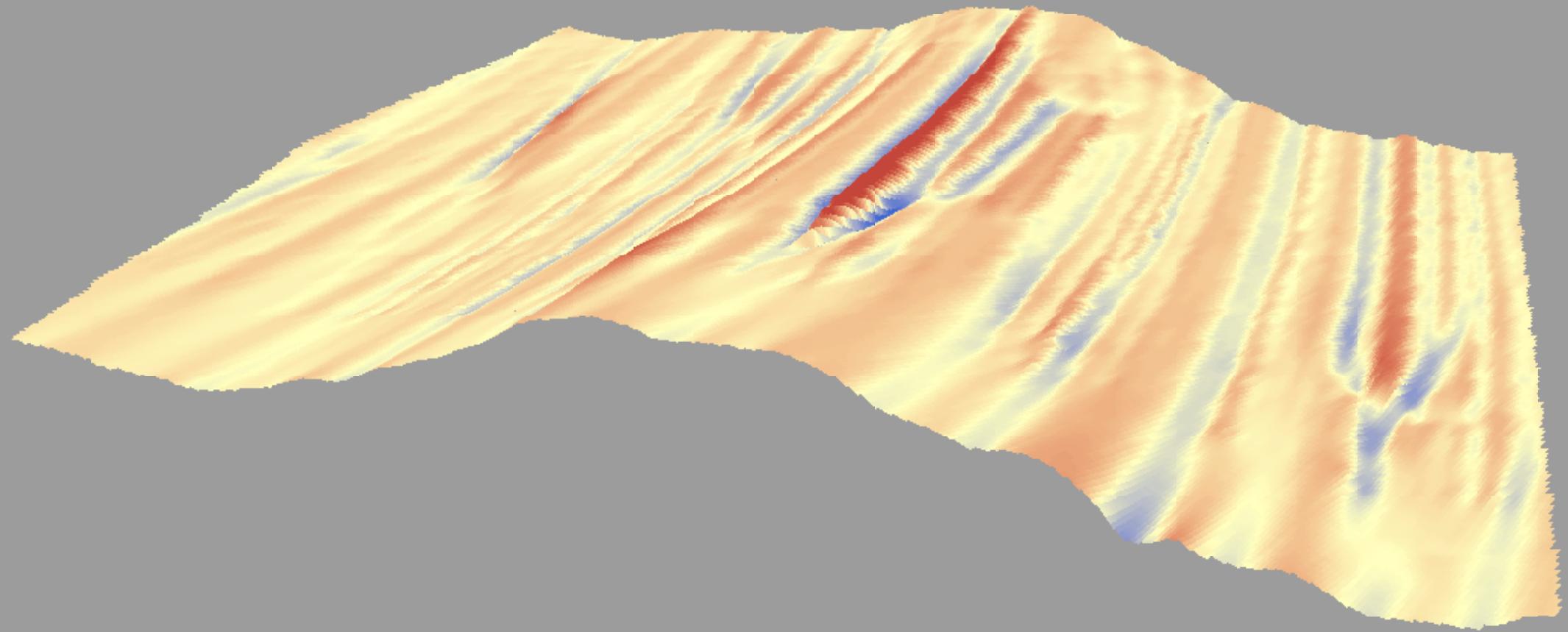
**Bed form
elevation (m)**

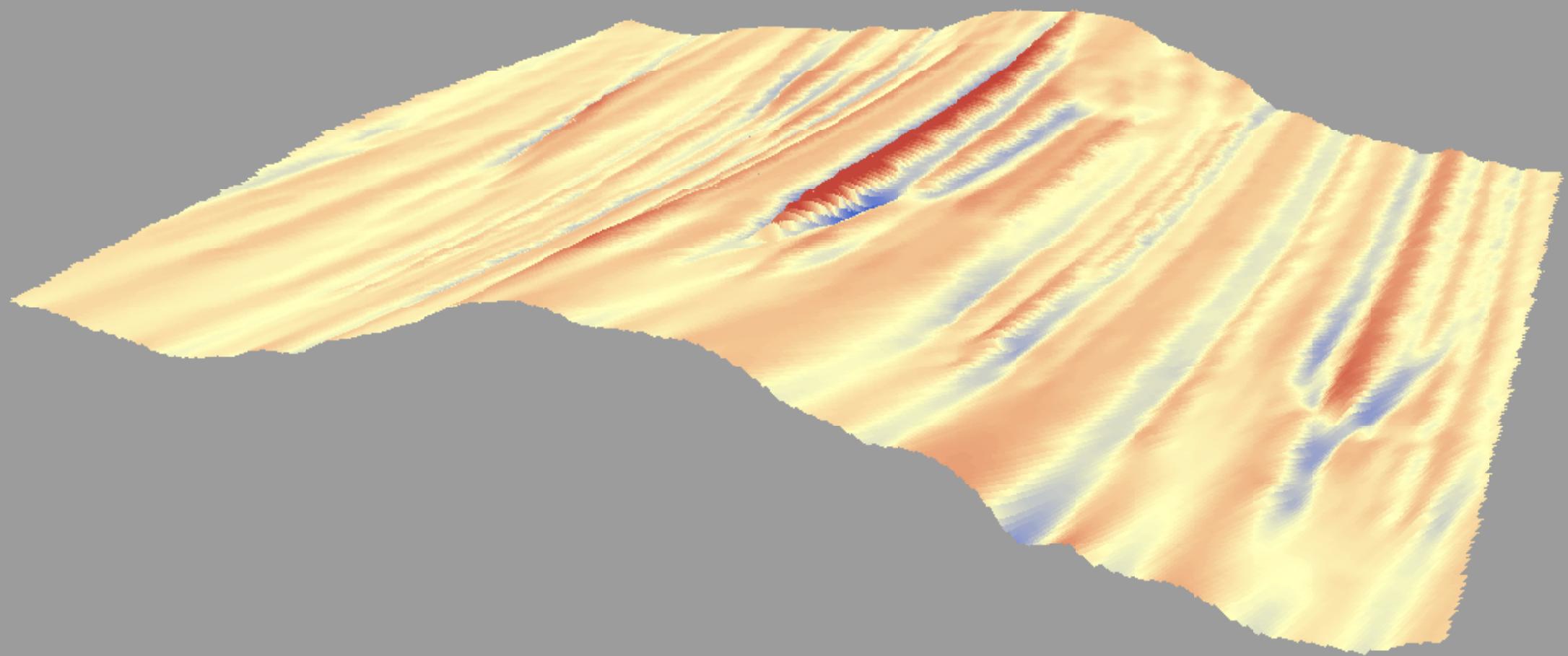


0 1 2 3 4 5
km

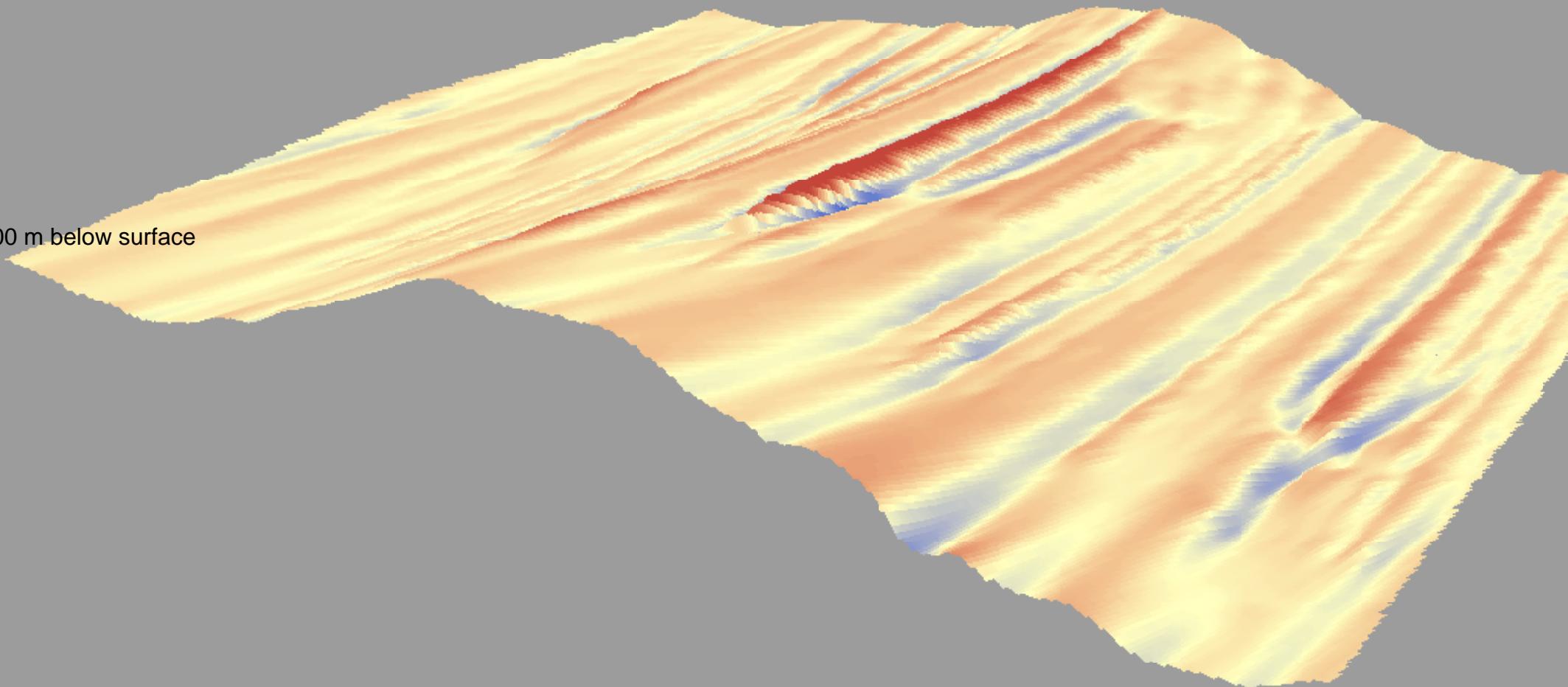


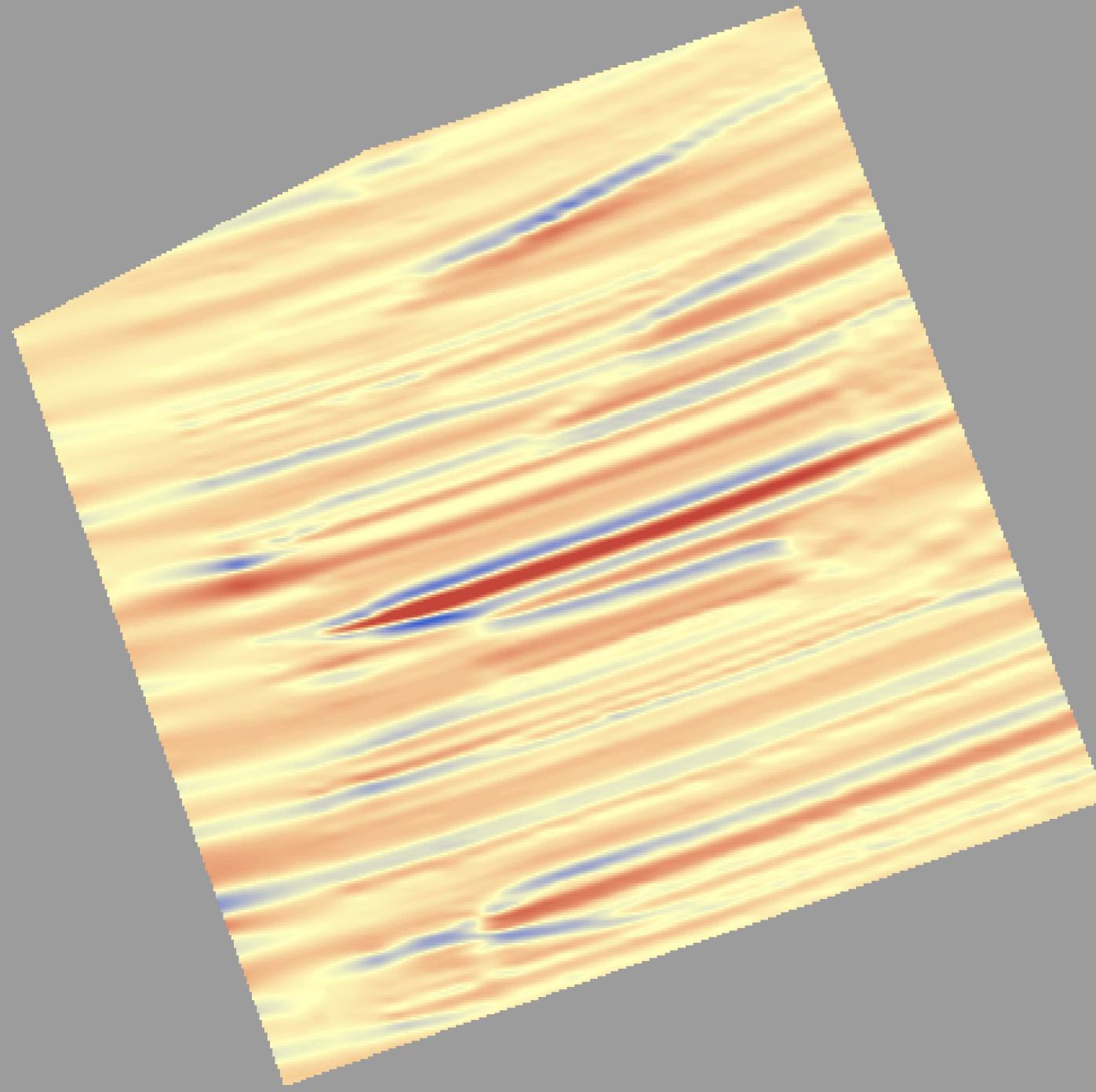




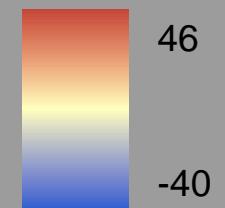


2300 m below surface

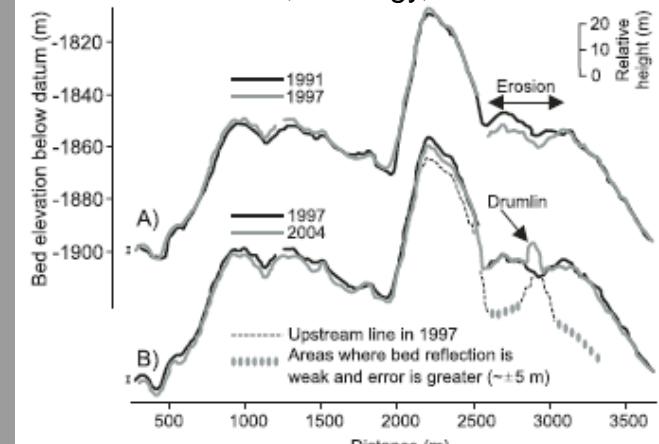




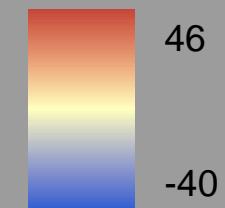
**Bed form
elevation (m)**



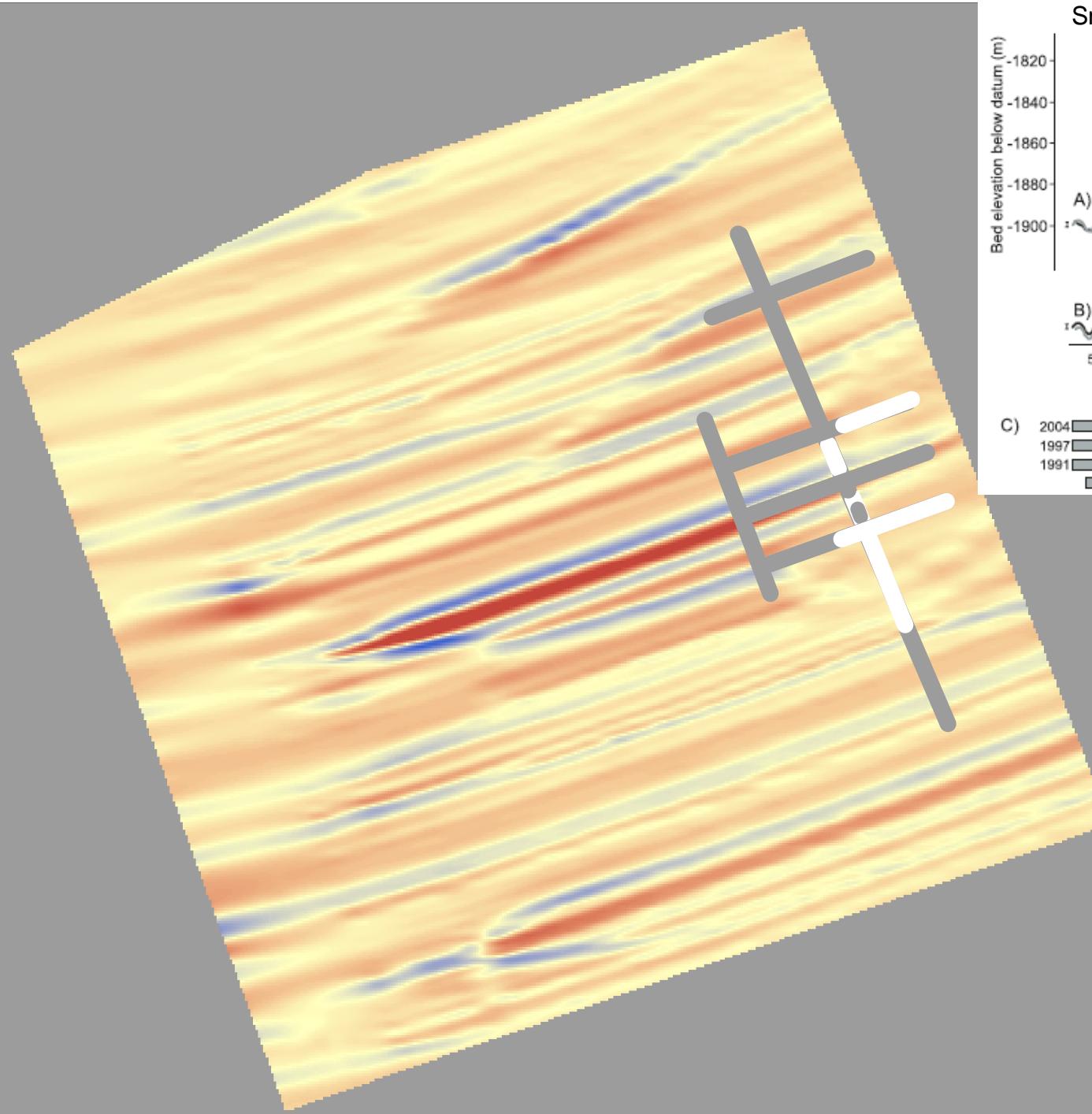
0 1 2 3 4 5
km

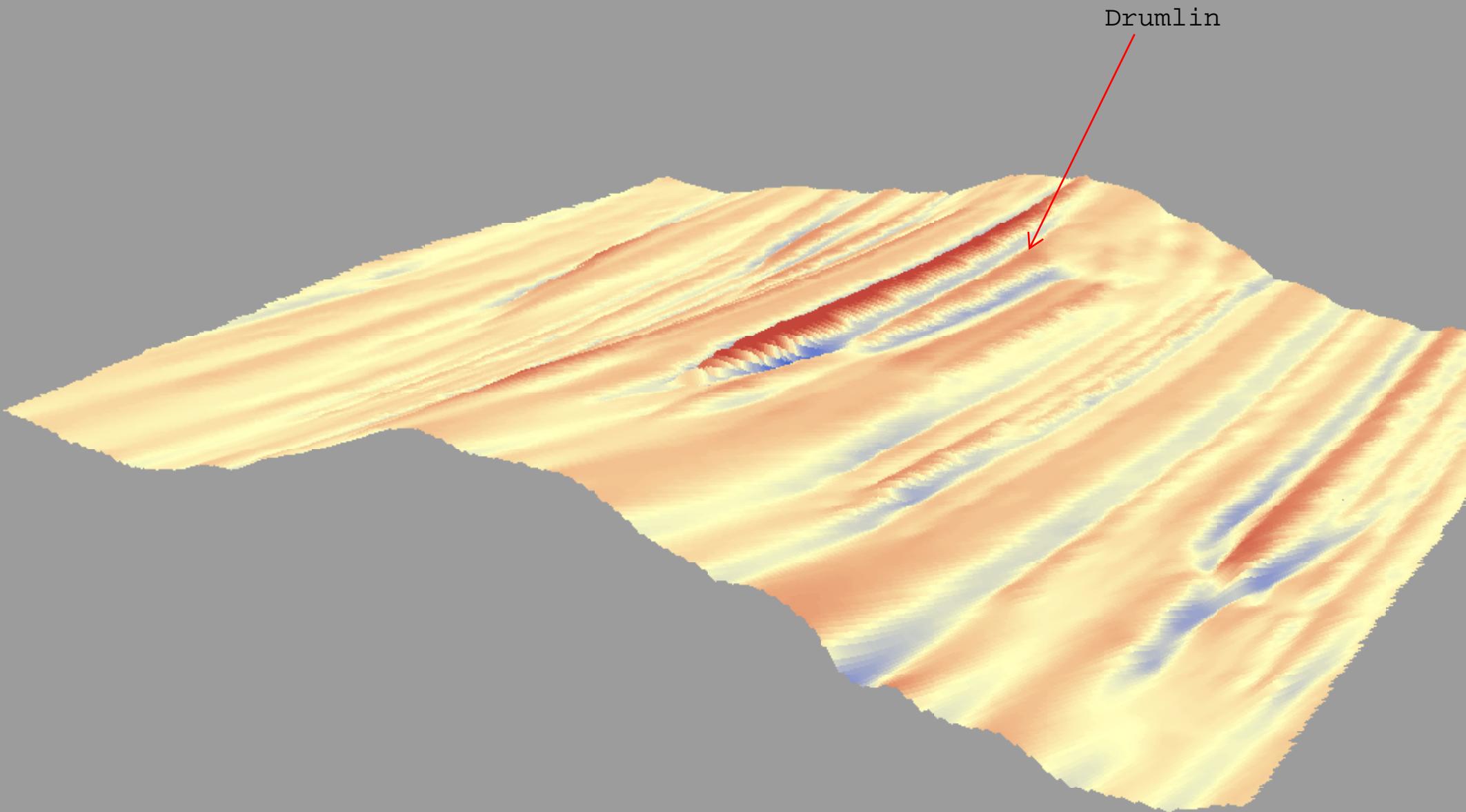


Bed form elevation (m)

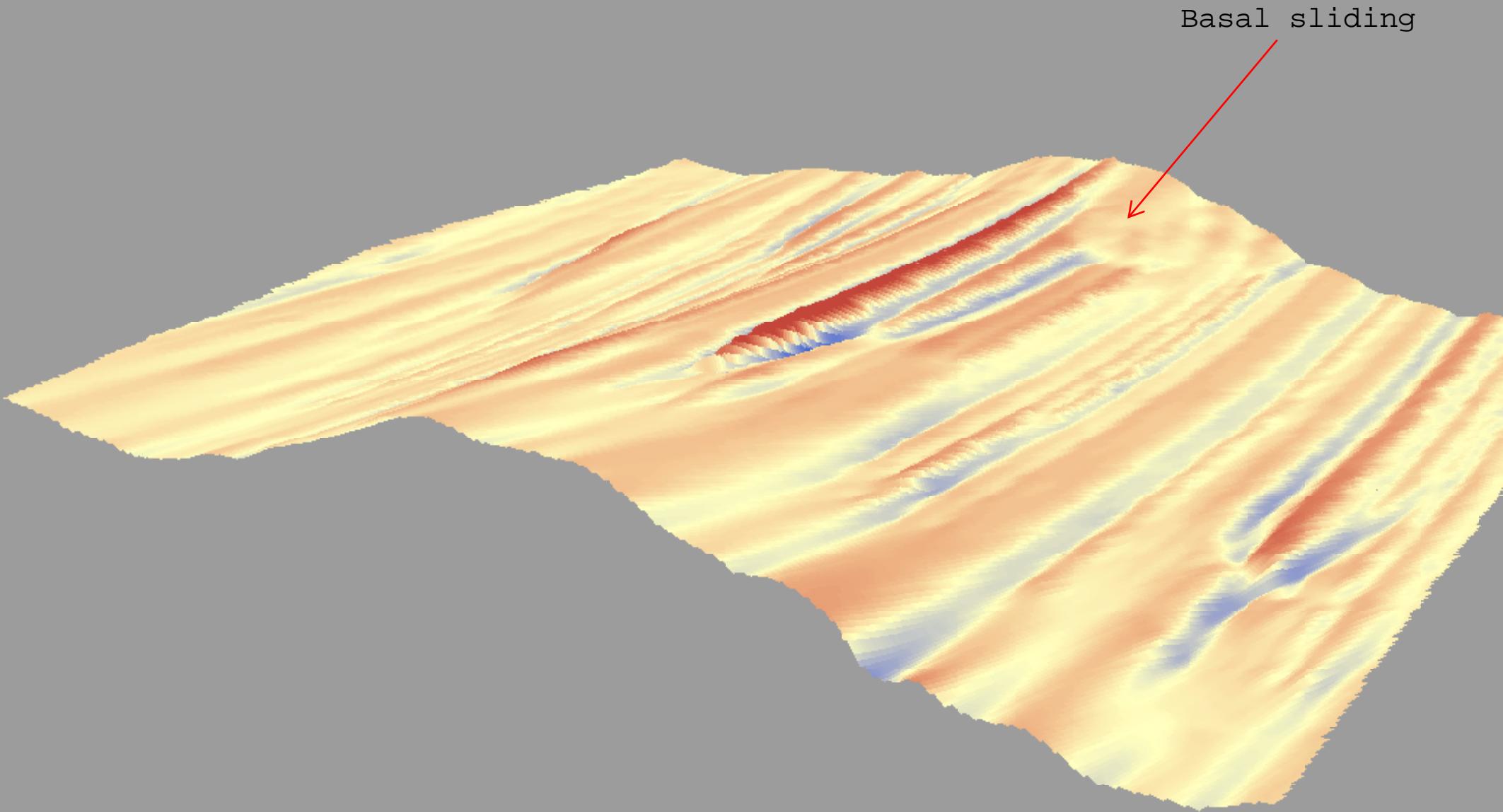


0 1 2 3 4 5 km



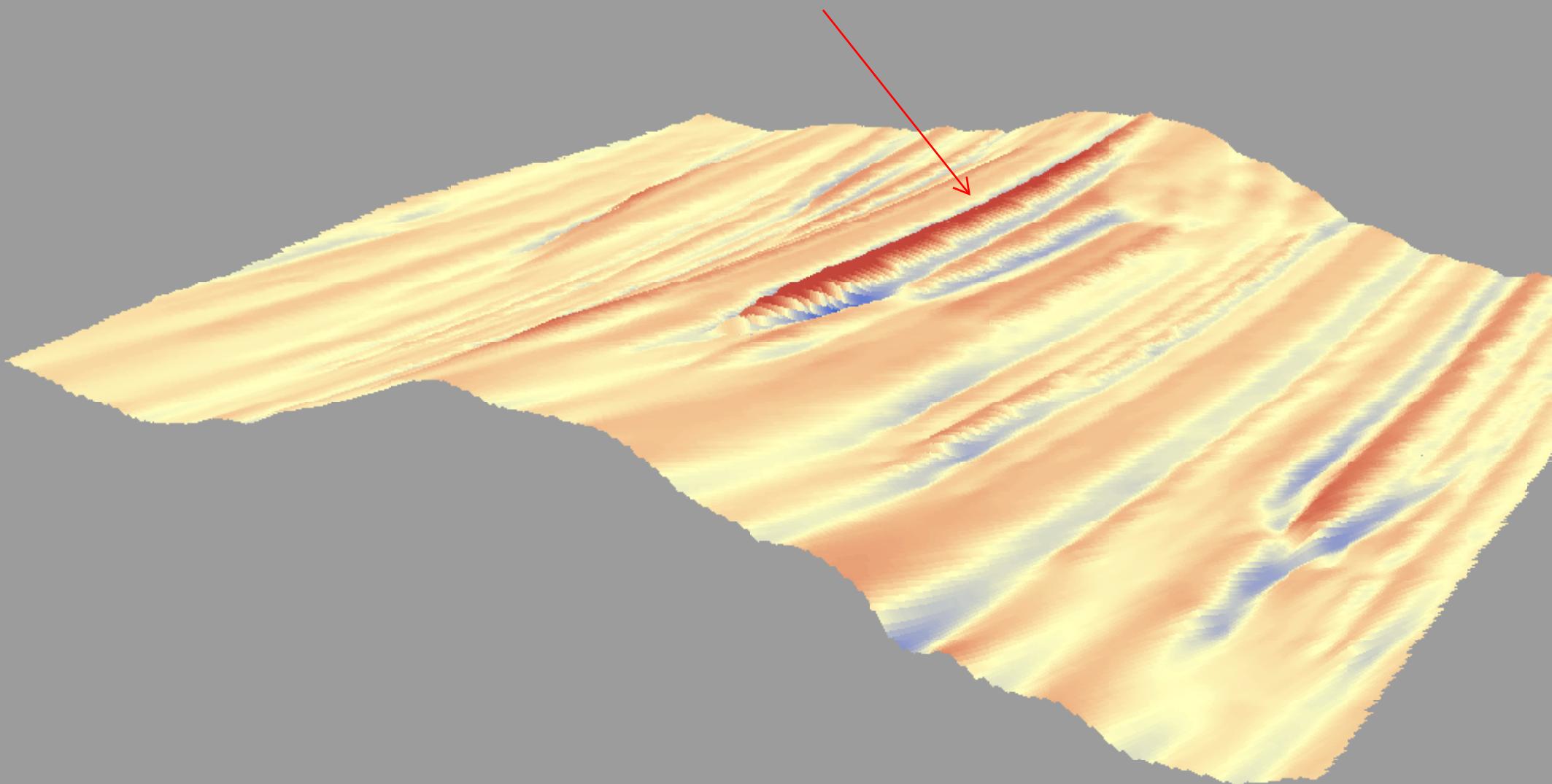


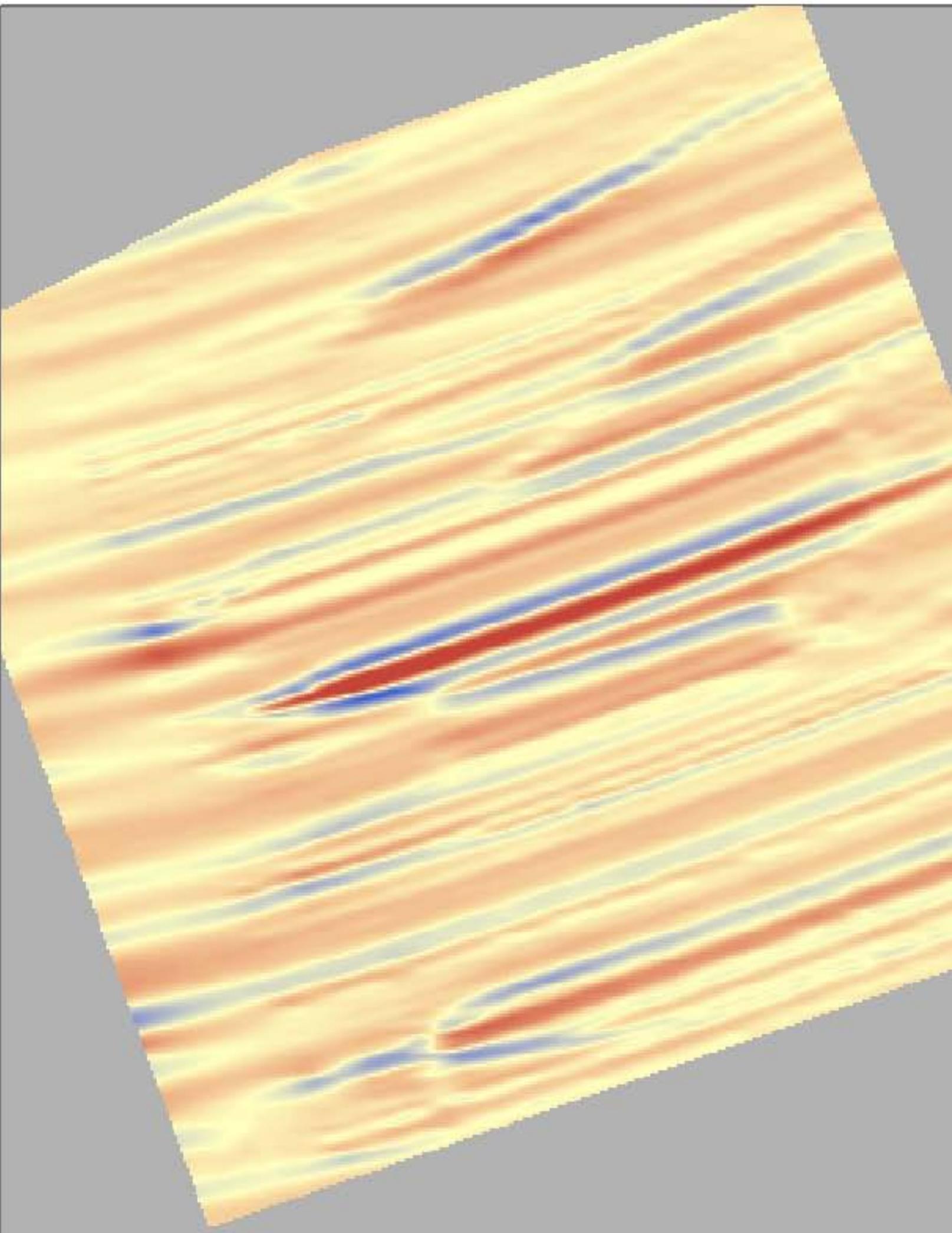
Drumlin



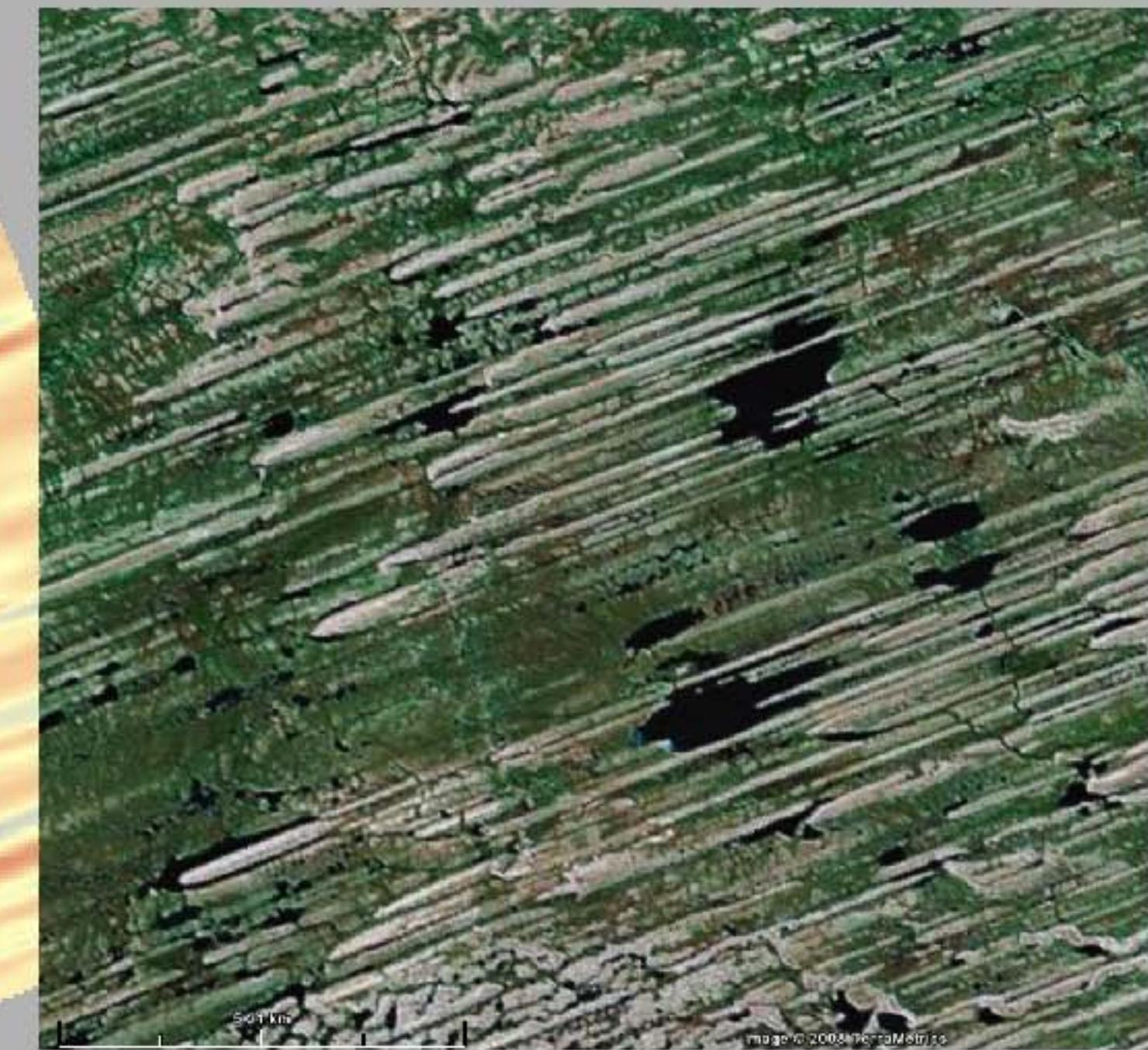
Basal sliding

Deforming bed





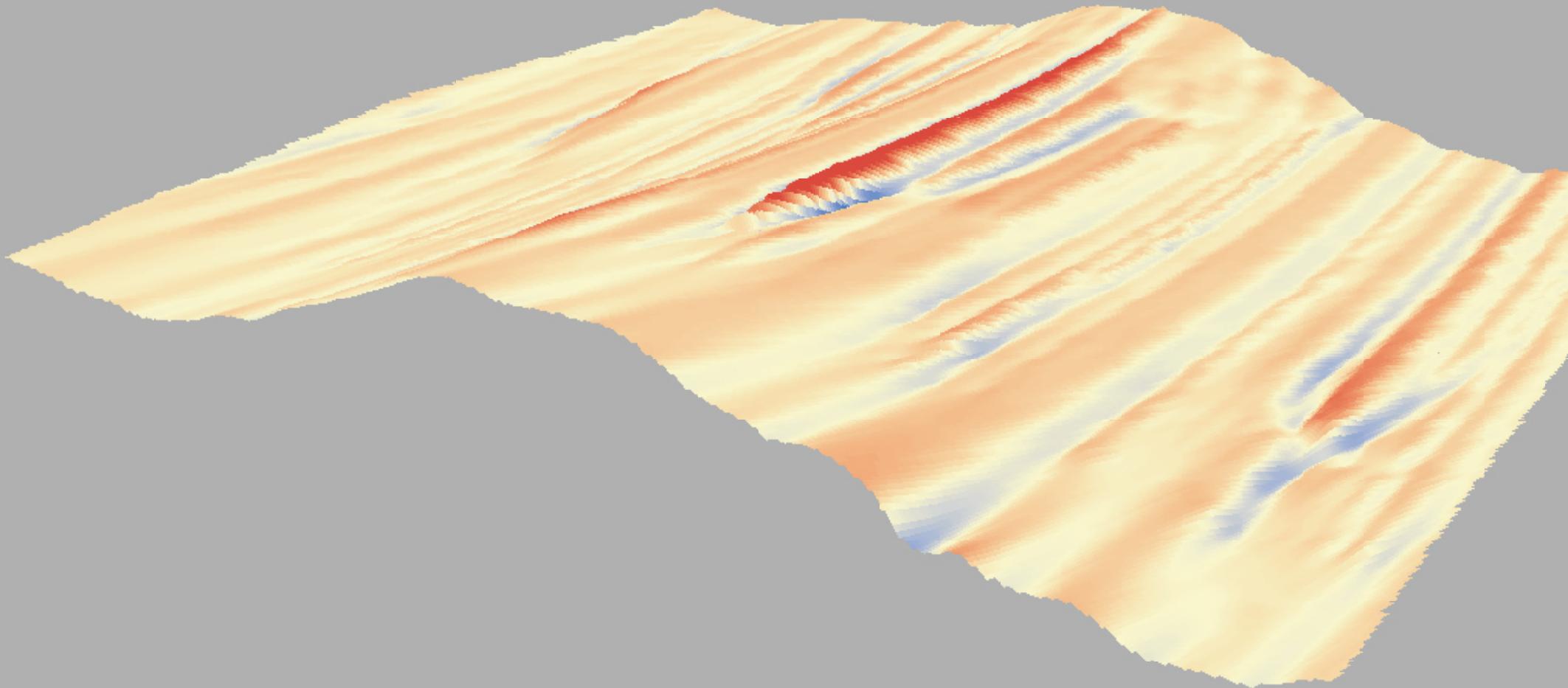
Dubawnt Lake region, Nunavut, Canada



0 1 2 3 4 5
km

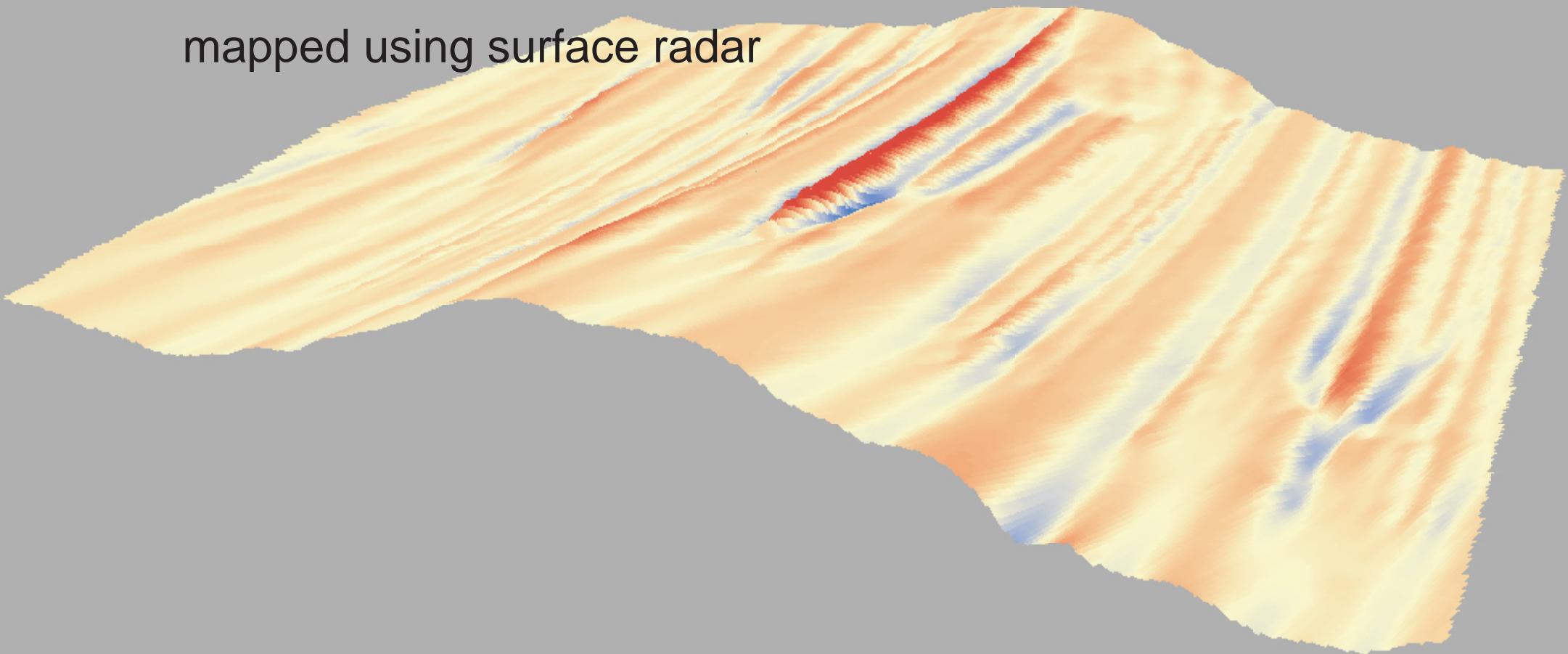
Conclusions

These data prove that MSGL are formed beneath ice streams



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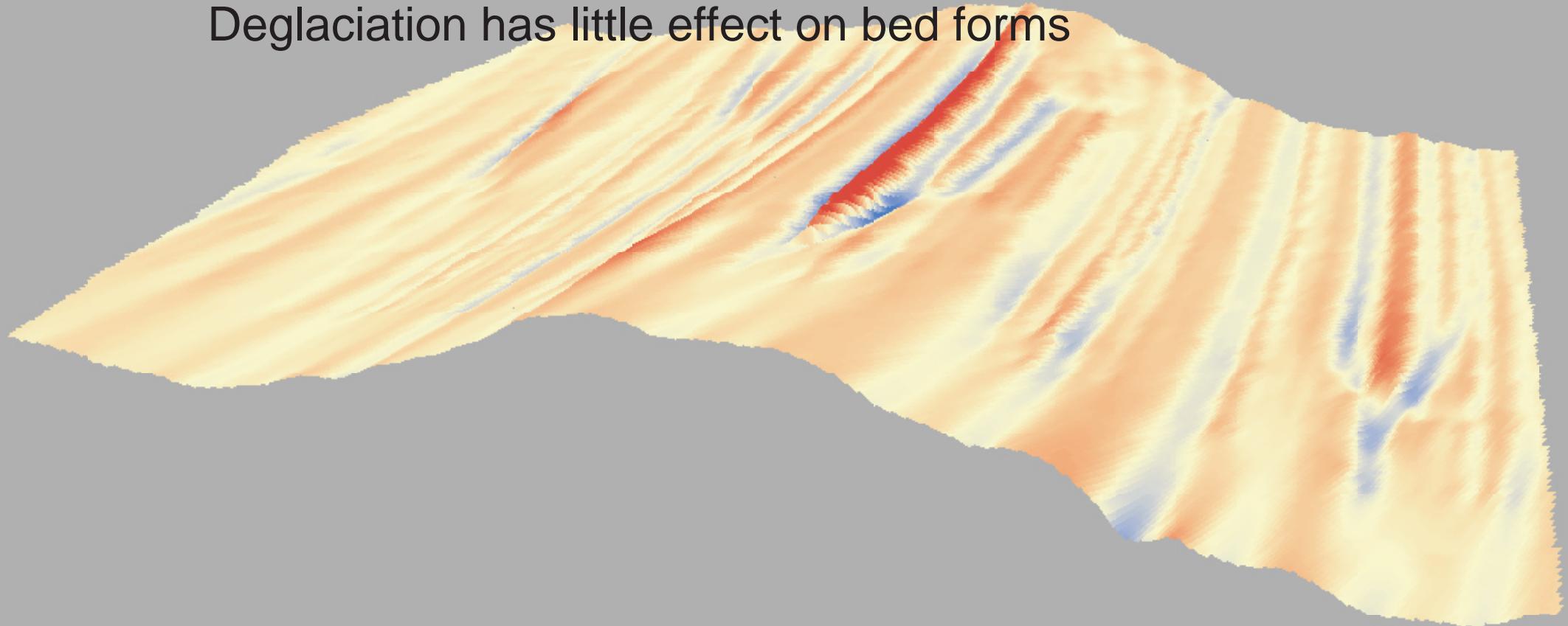
The distribution of deforming till and basal sliding can be mapped using surface radar



These data prove that MSGL are formed beneath ice streams

The distribution of deforming till and basal sliding can be mapped using surface radar

Deglaciation has little effect on bed forms

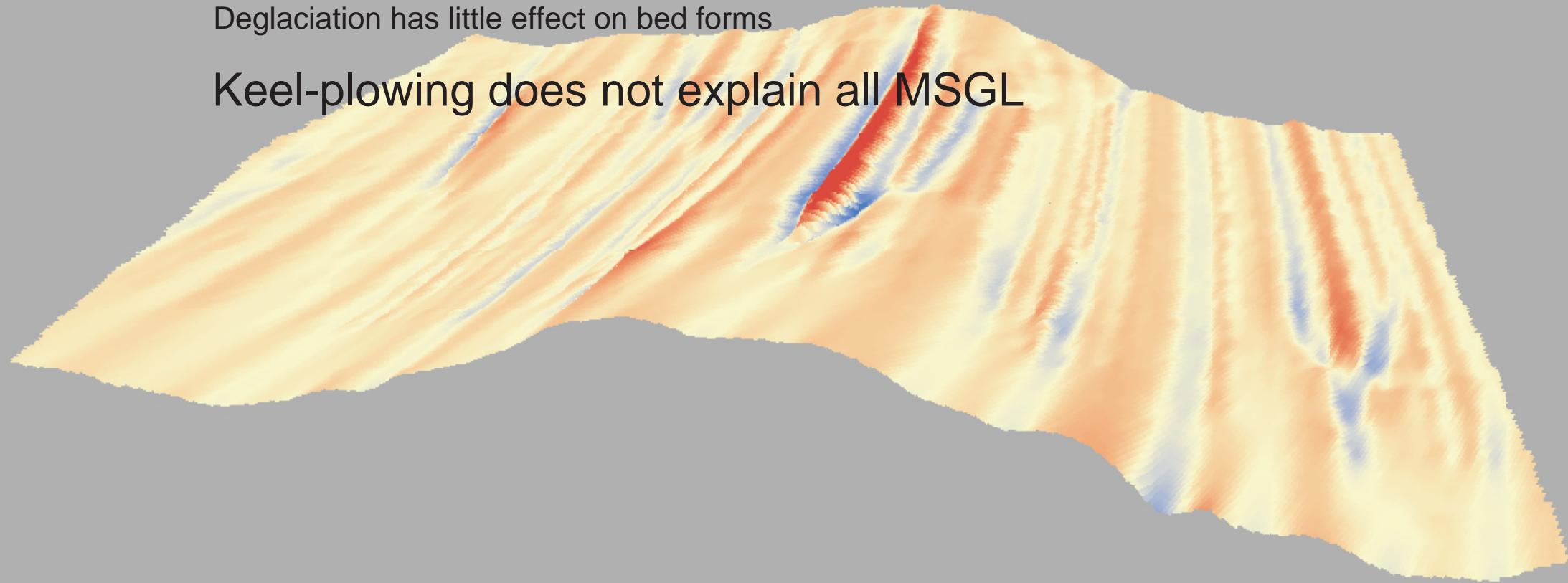


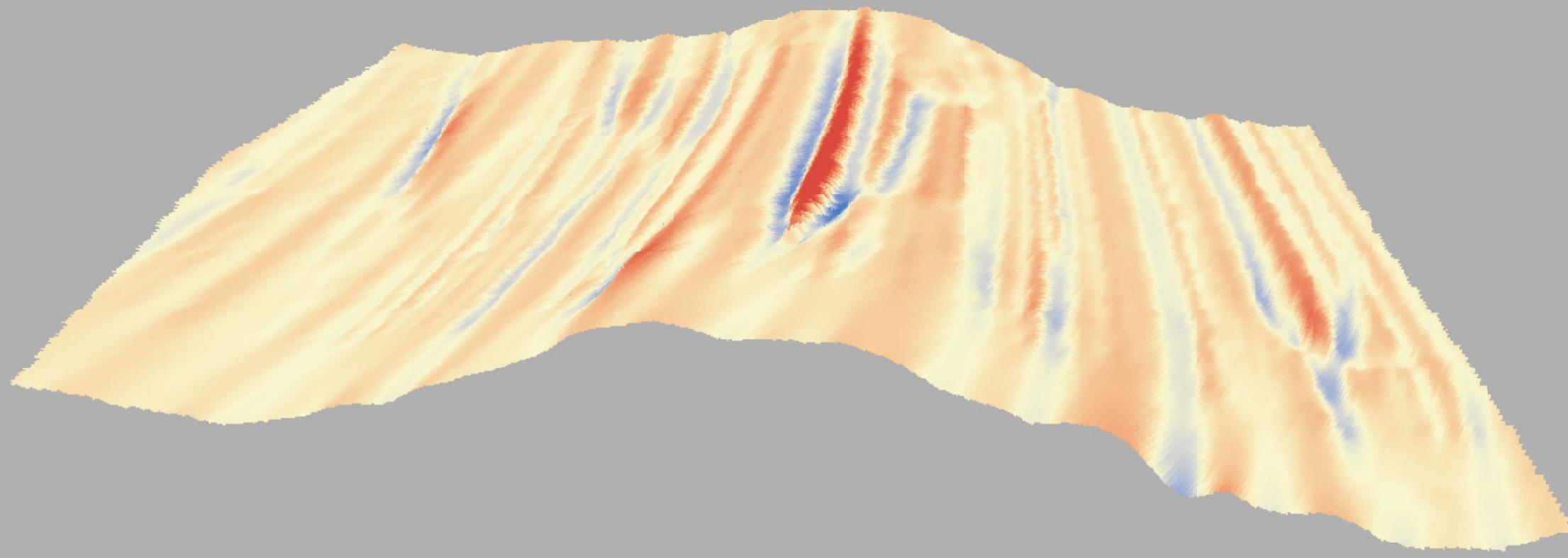
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The distribution of deforming till and basal sliding can be mapped using surface radar

Deglaciation has little effect on bed forms

Keel-plowing does not explain all MSGL





With thanks to Roger Stilwell and the operations staff of Rothera Research Station