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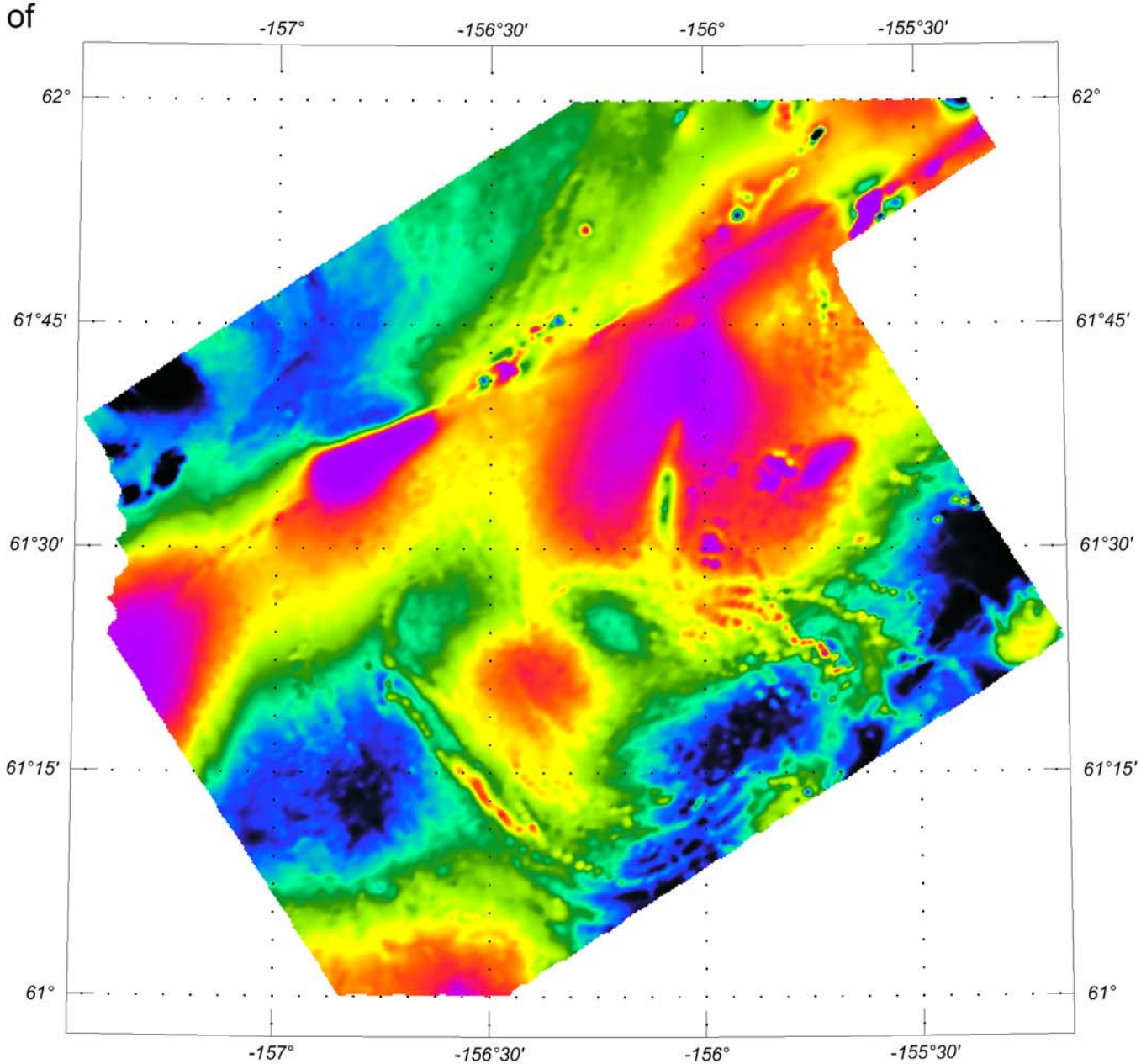
Figure 1a



10000 0 10000 20000 30000
metres
NAD27 / UTM zone 4N

Total field magnetic map of the Holitna survey map area

N

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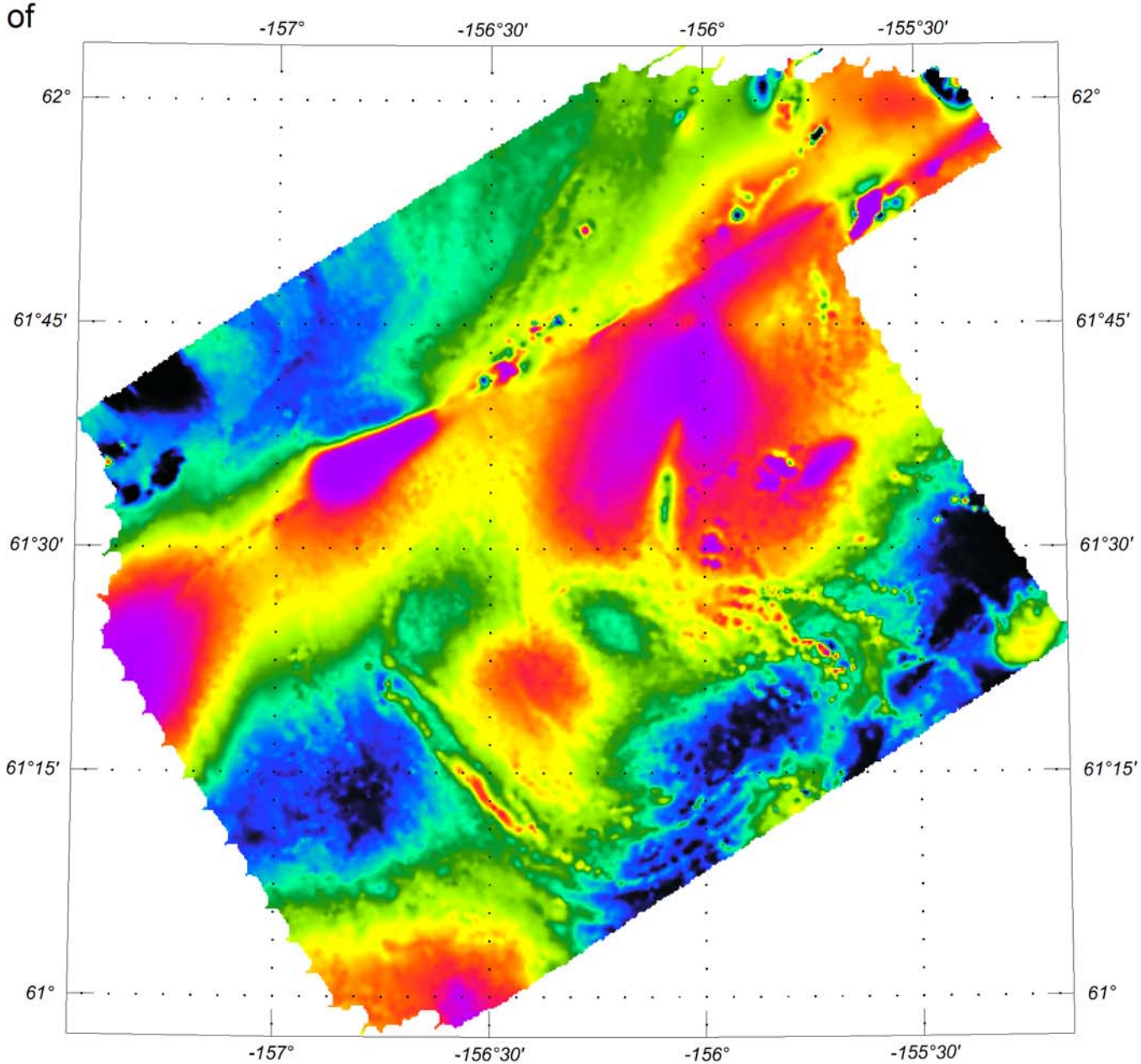
Figure 1b



10000 0 10000 20000 30000
metres
NAD27 / UTM zone 4N

Total field magnetic map of all the Holitna survey data

N

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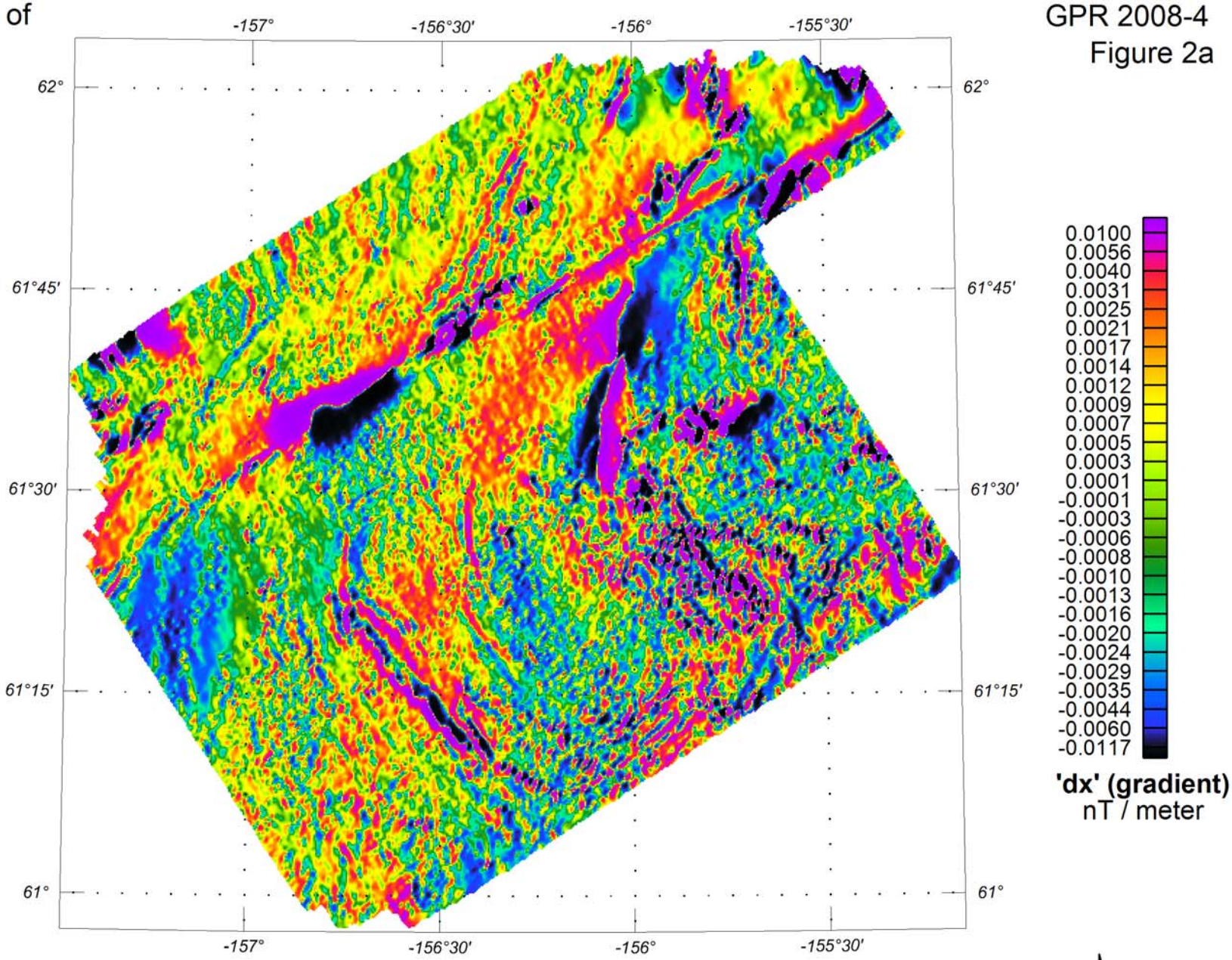
Figure 2a



10000 0 10000 20000 30000
metres
NAD27 / UTM zone 4N

Horizontal gradient (dx) of the Holitna magnetic grid

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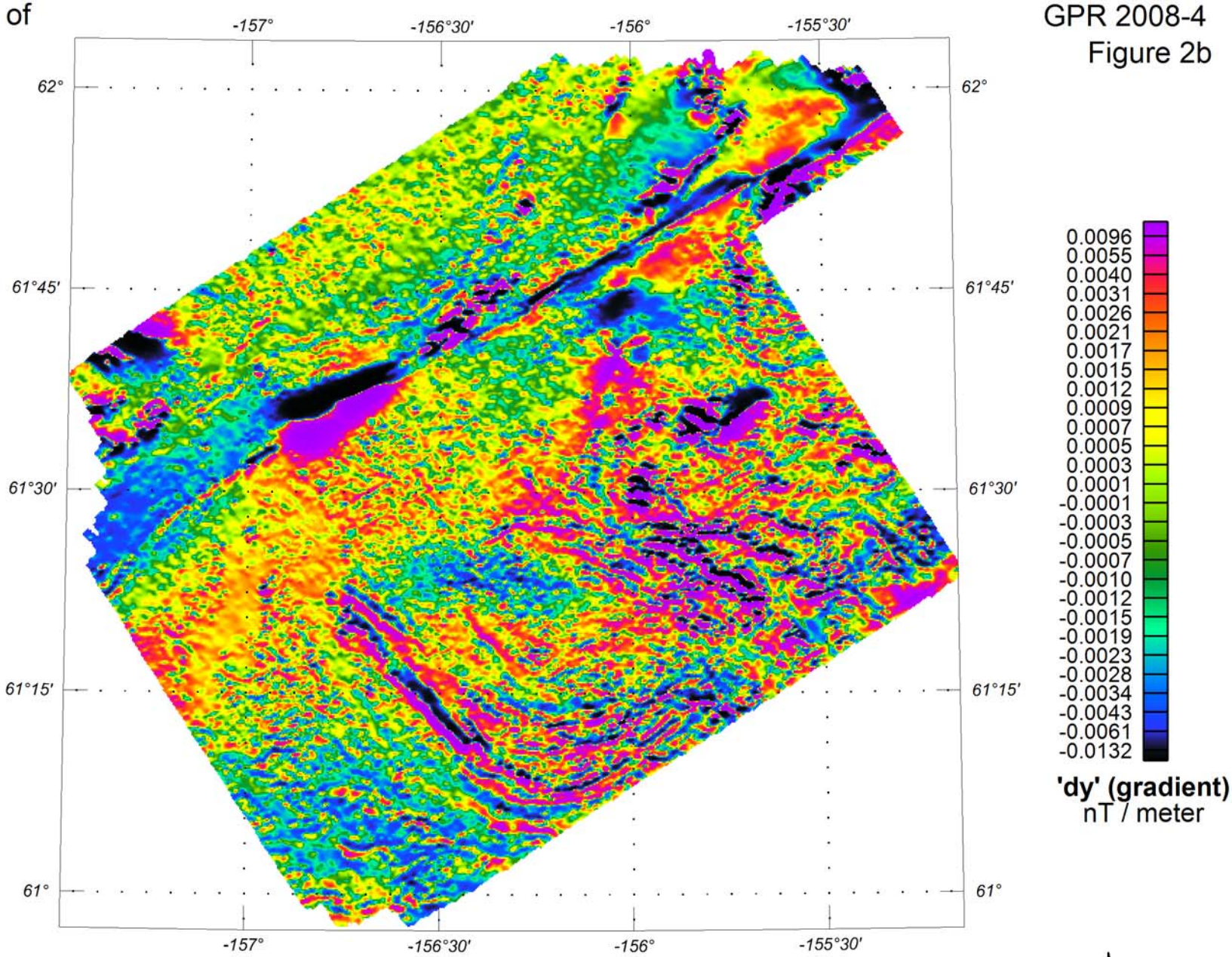
Figure 2b



10000 0 10000 20000 30000
metres
NAD27 / UTM zone 4N

Horizontal gradient (dy) of the Holitna magnetic grid

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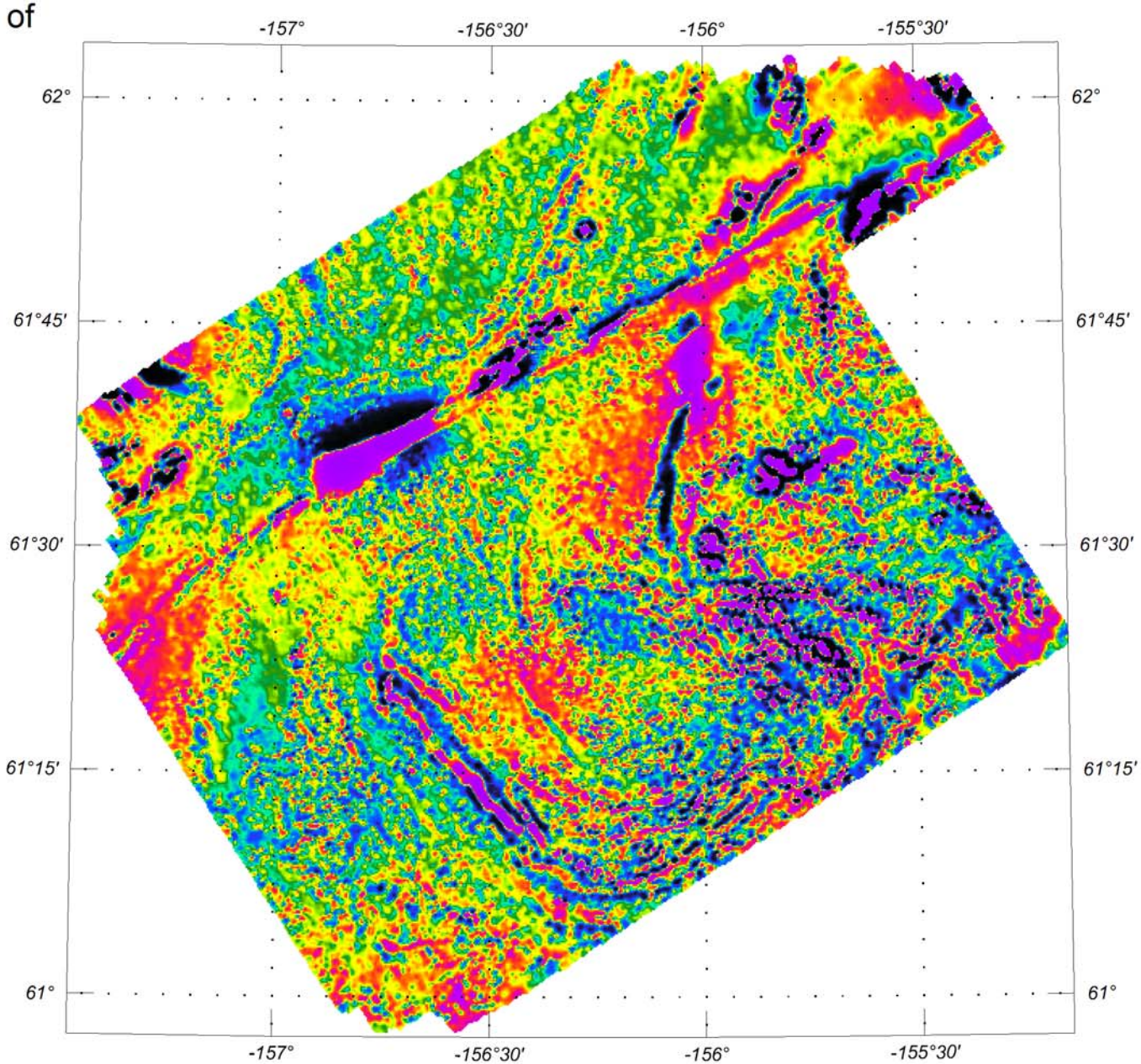
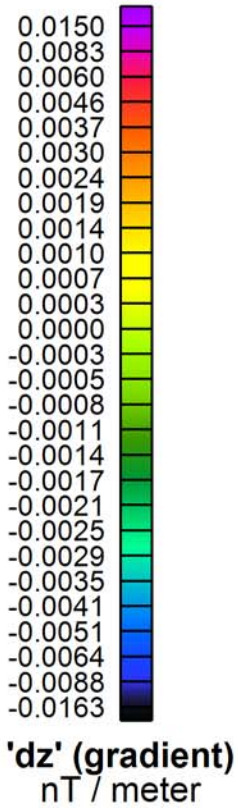
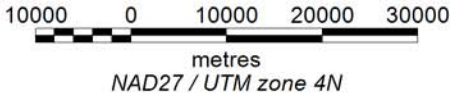
Figure 2c







First vertical derivative (dz) of the Holitna magnetic grid

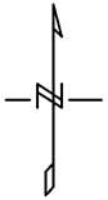


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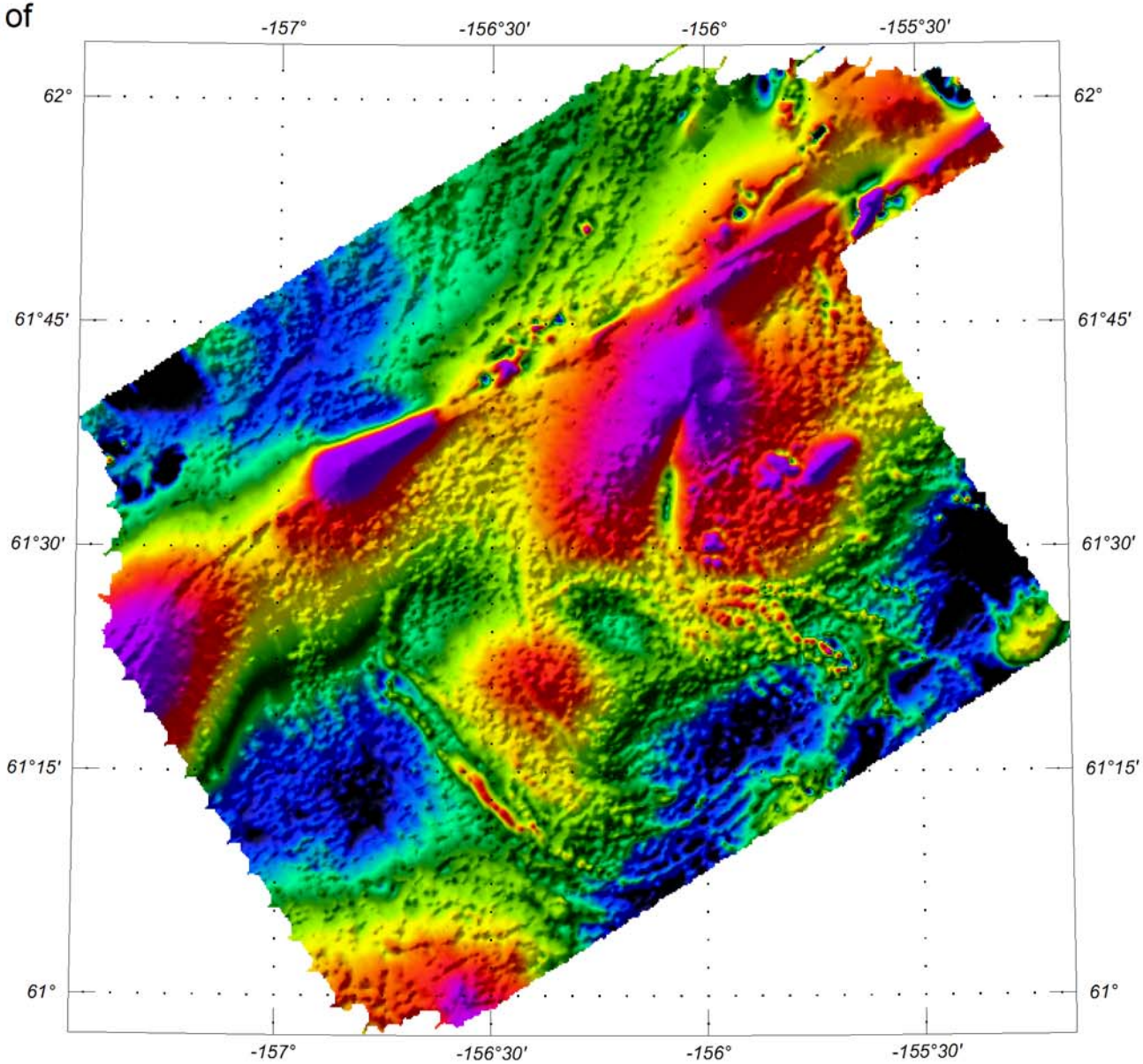
Figure 3



Color shadow map of the total field magnetic data

Inclination 35, Declination 315

10000 0 10000 20000 30000
metres
NAD27 / UTM zone 4N

N

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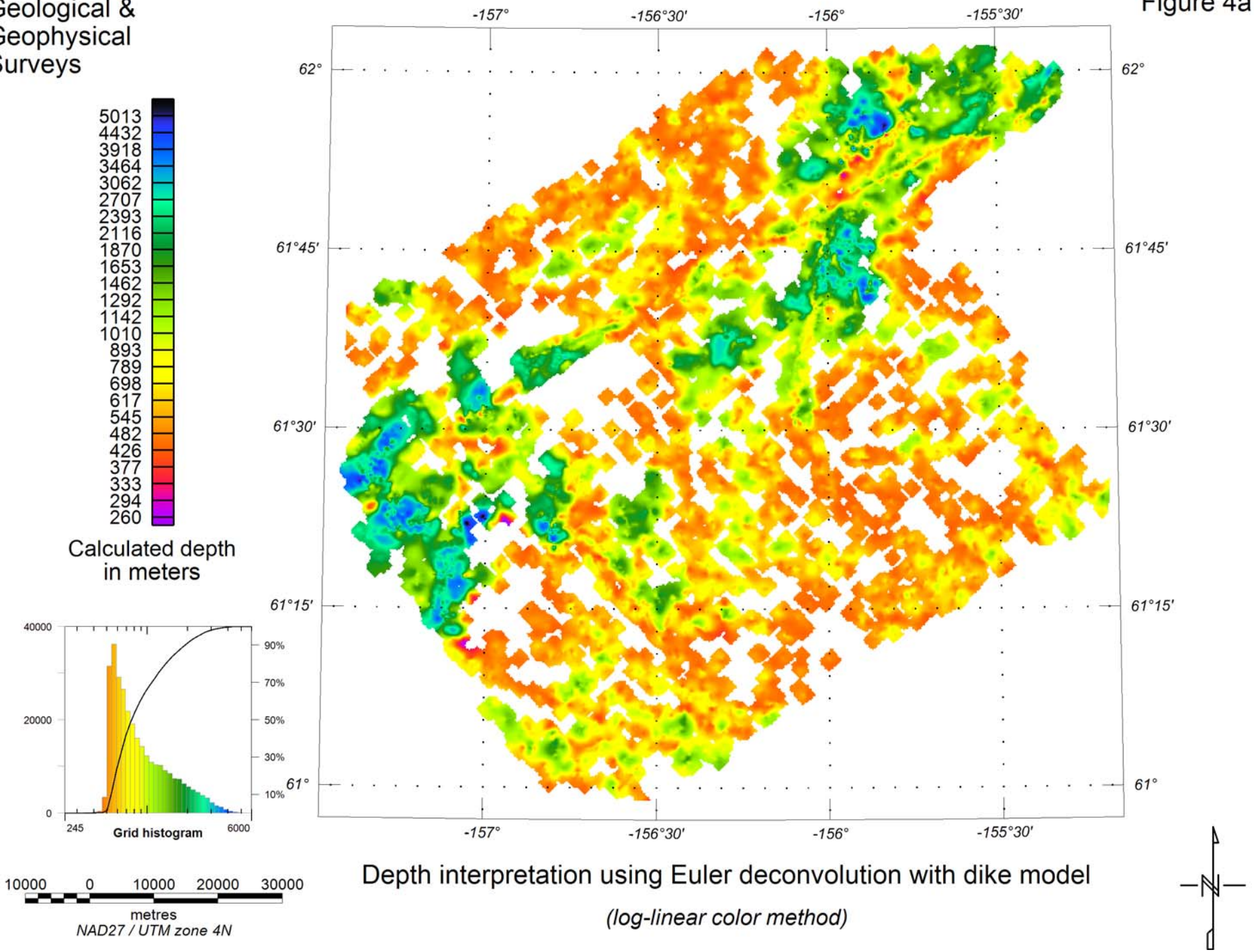
Figure 4a



Depth interpretation using Euler deconvolution with dike model

(log-linear color method)

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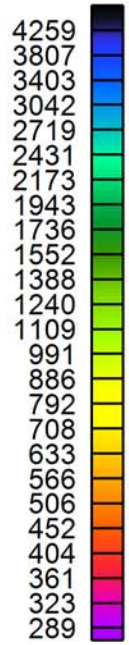
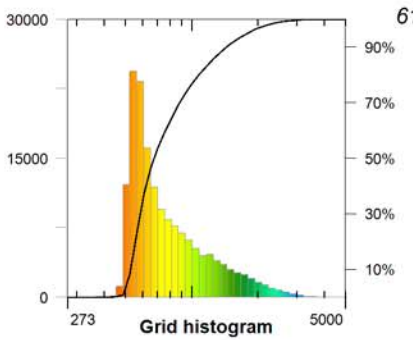
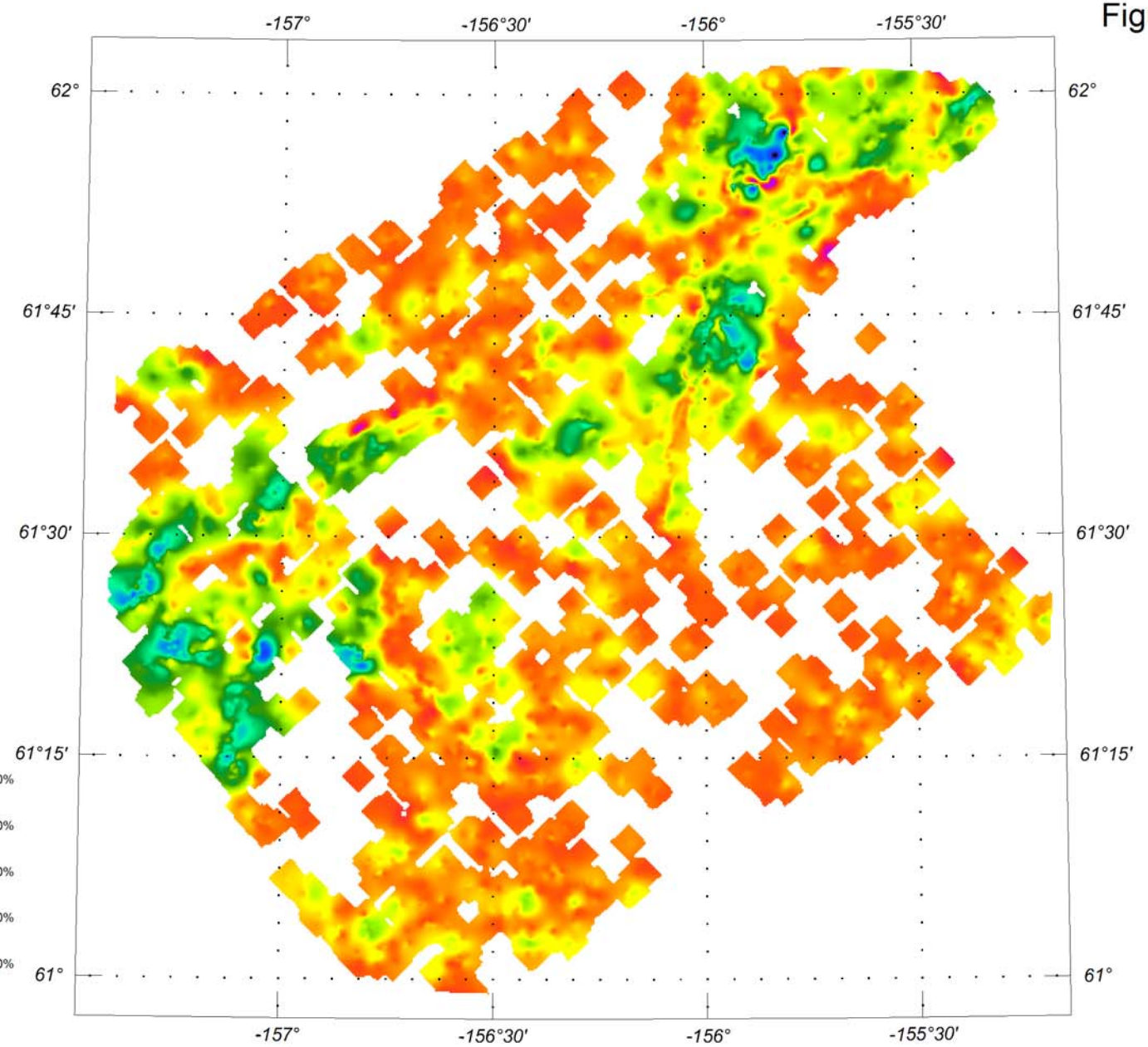
Figure 4b



Calculated depth in meters





10000 0 10000 20000 30000
metres
NAD27 / UTM zone 4N

Depth interpretation using Euler deconvolution with step model

(log-linear color method)

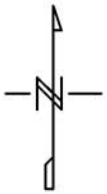


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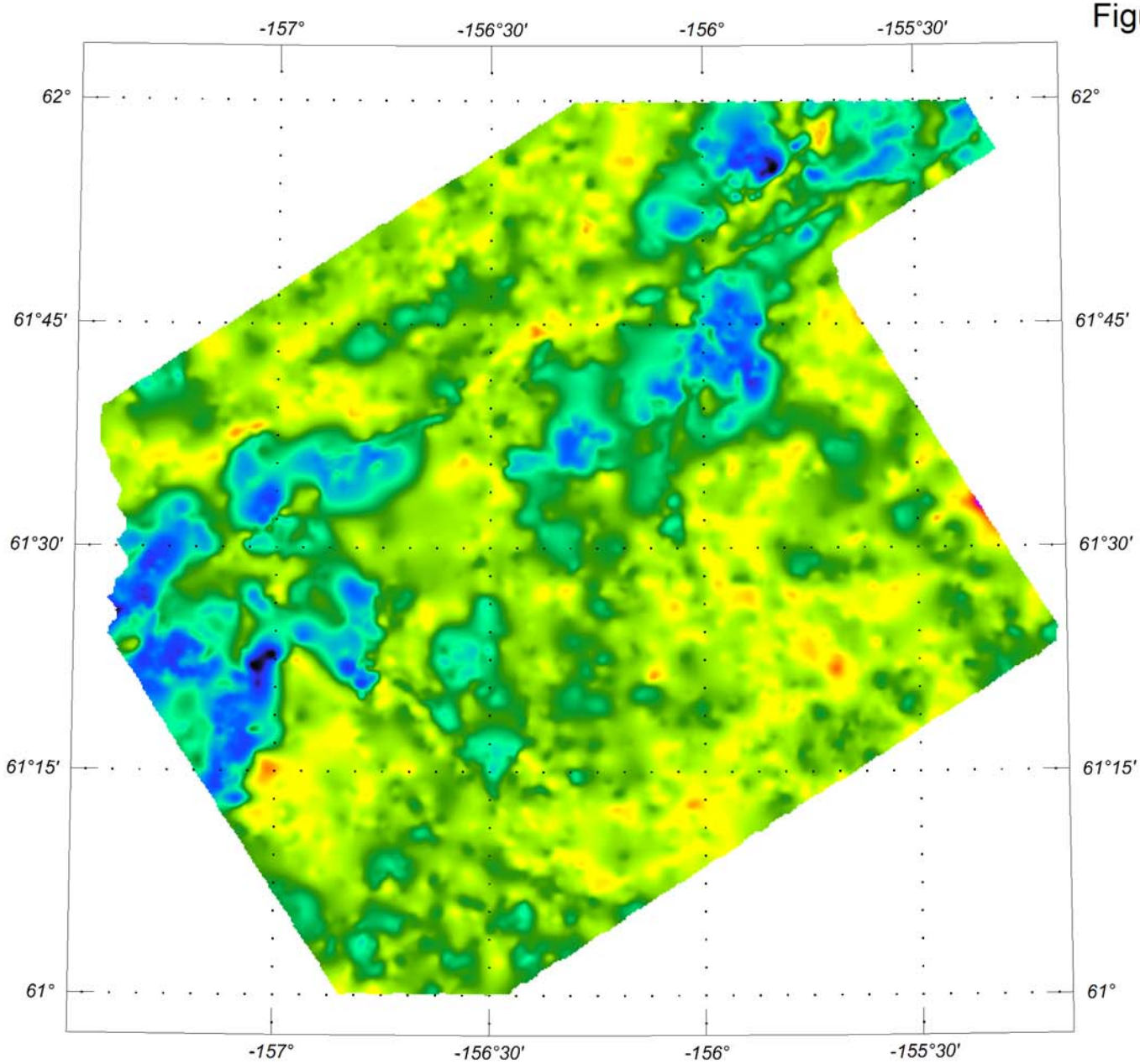
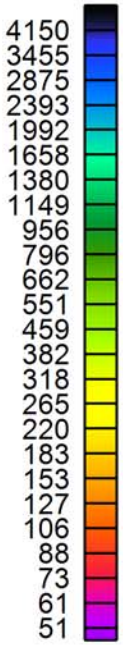
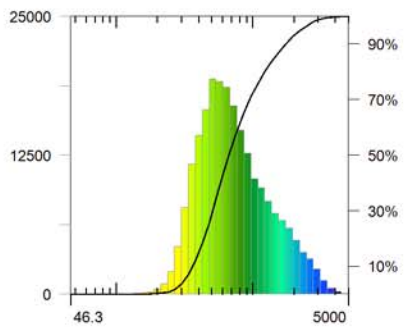
Figure 4c





Calculated depth in meters



10000 0 10000 20000 30000
metres
NAD27 / UTM zone 4N

Depth to basement model using Euler deconvolution with dike model

(log-linear color method)

N

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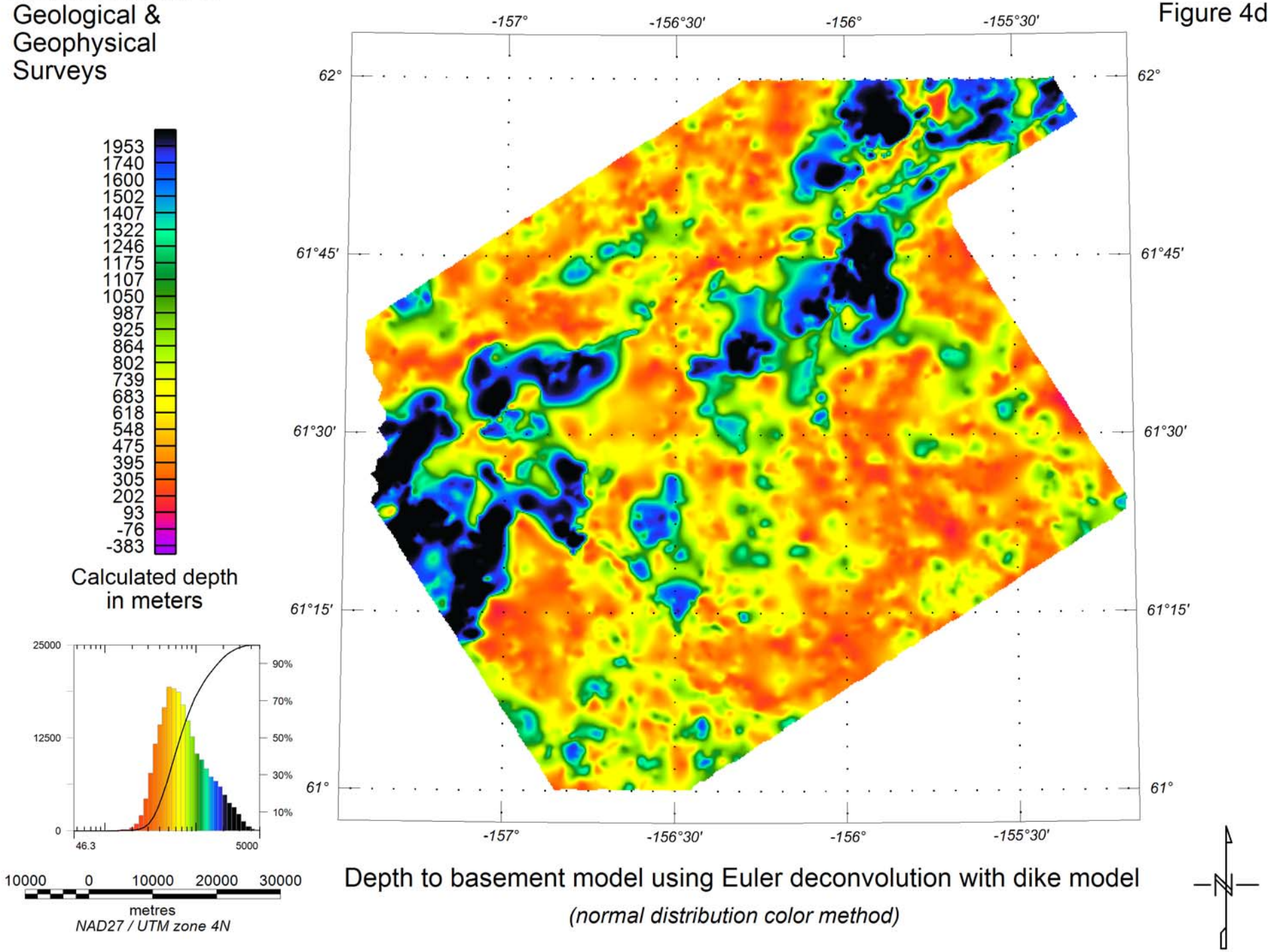
Figure 4d



Depth to basement model using Euler deconvolution with dike model

(normal distribution color method)

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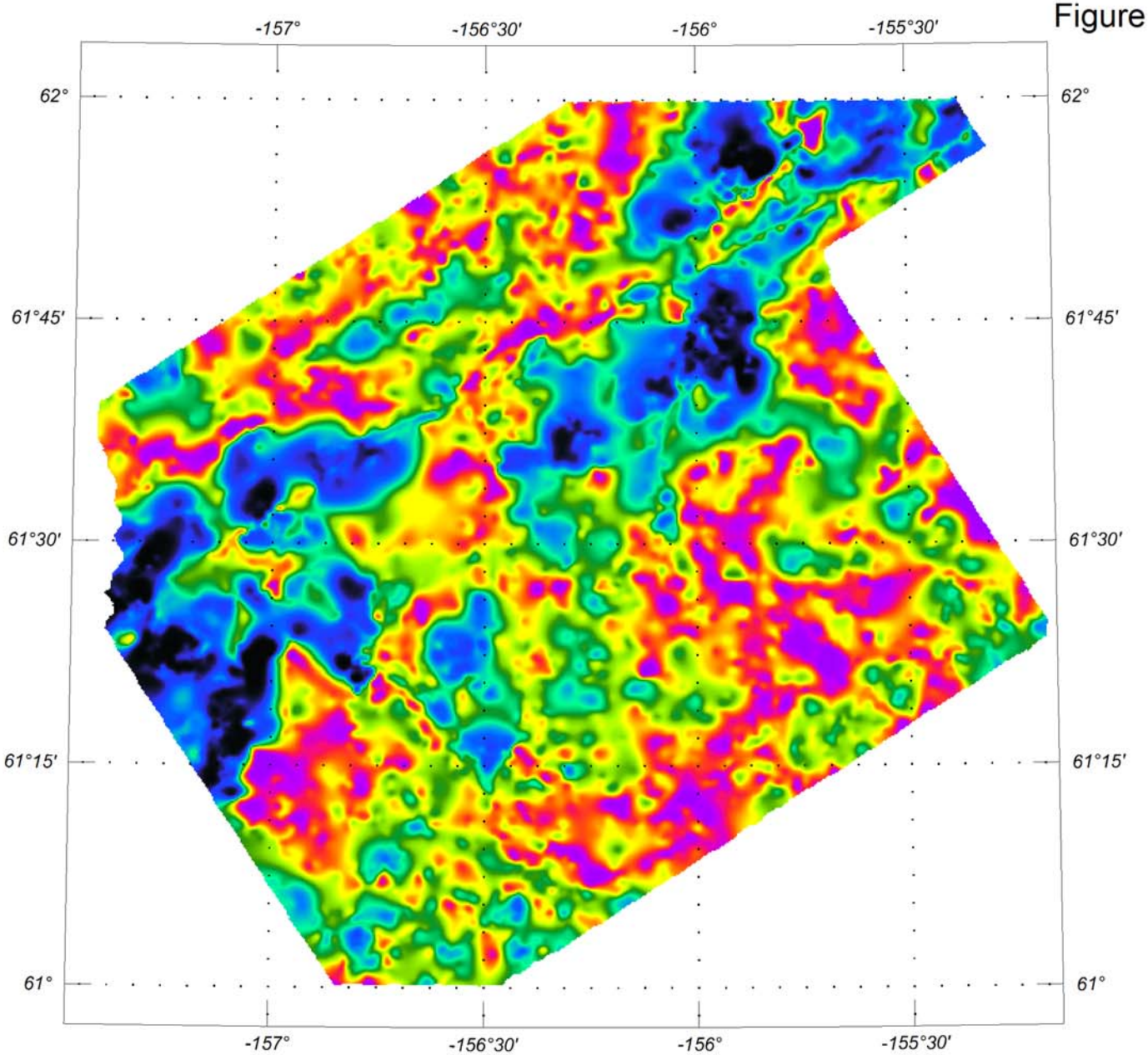
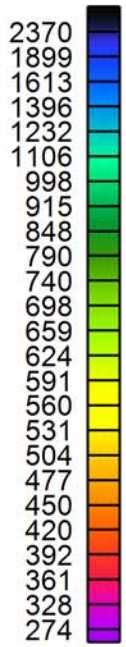
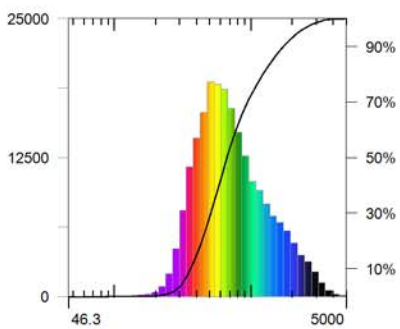
Figure 4e





Calculated depth in meters



10000 0 10000 20000 30000

metres

NAD27 / UTM zone 4N

Depth to basement model using Euler deconvolution with dike model

(histogram equalization color method)

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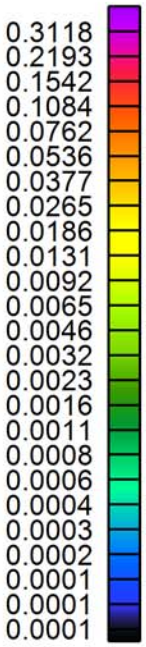
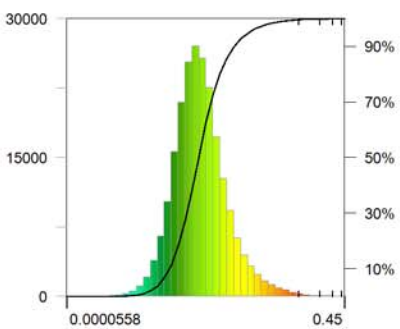
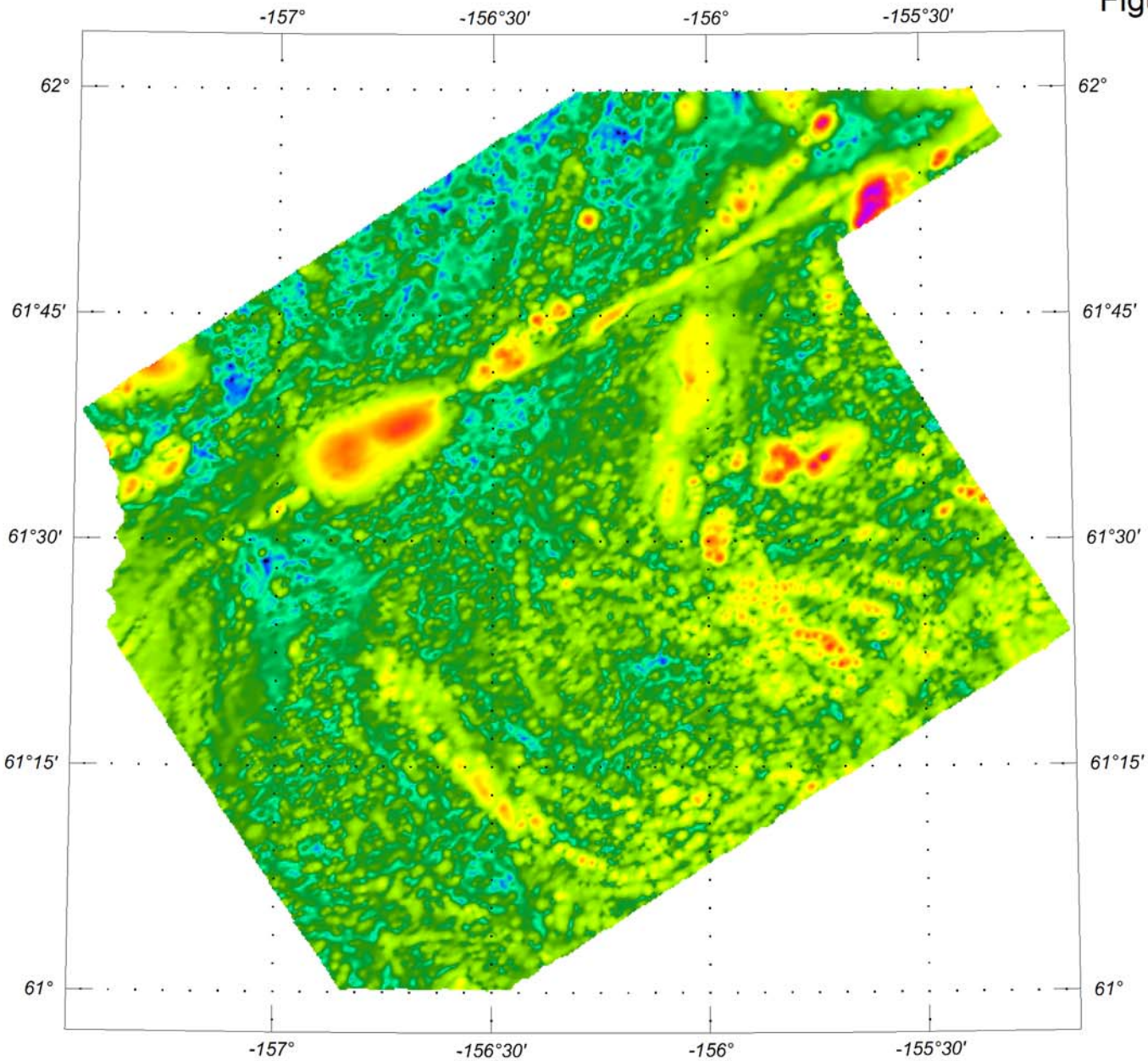
Figure 5a



Analytic signal strength





10000 0 10000 20000 30000

metres

NAD27 / UTM zone 4N

Analytic signal of total magnetic field
computed using Fast Fourier Transform (FFT) for the z-derivative

(log-linear color method)

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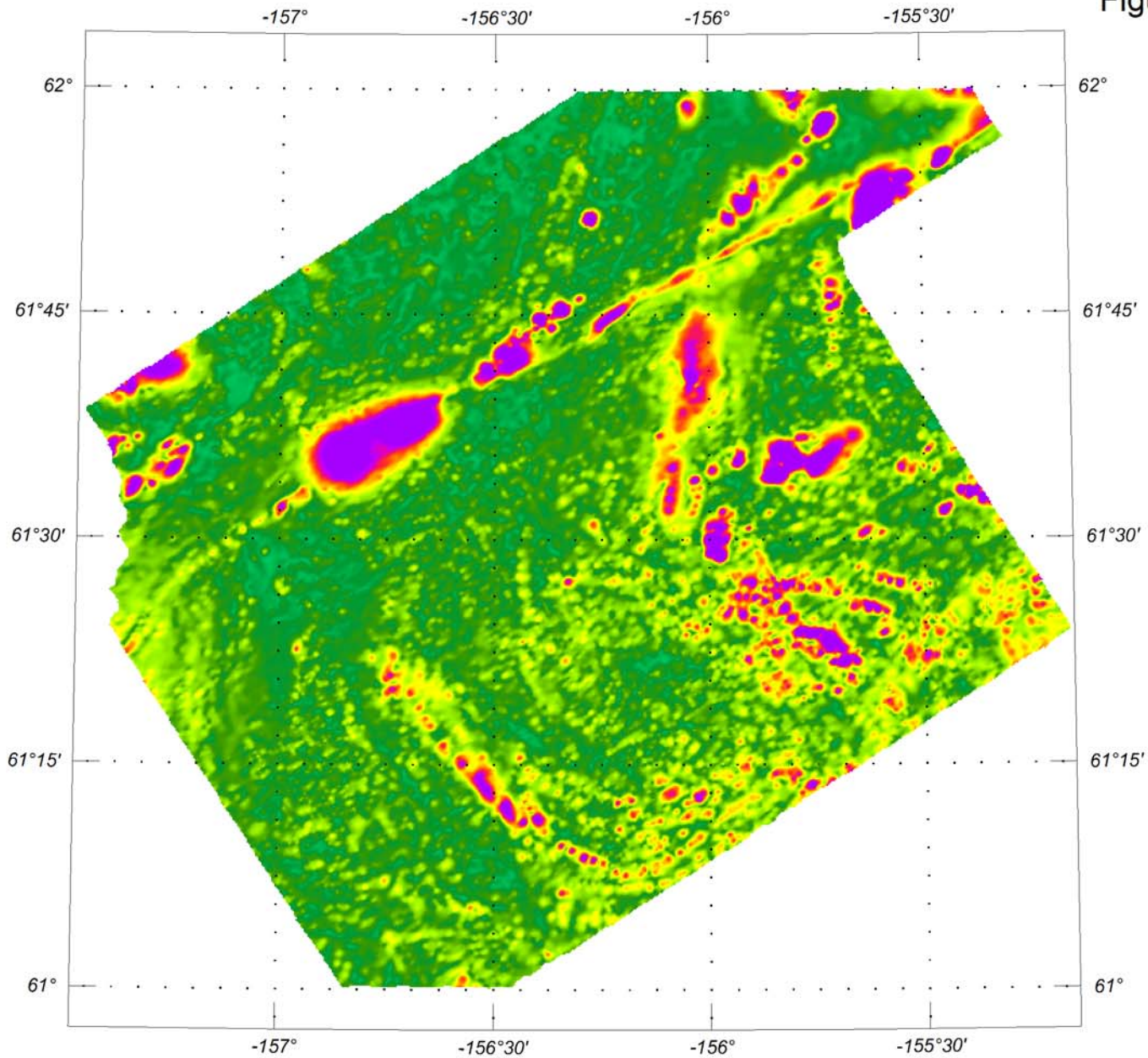
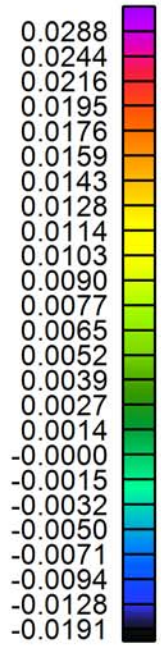
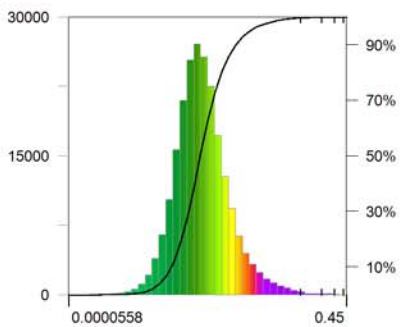
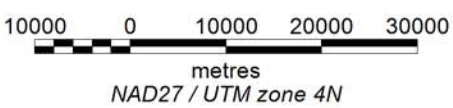
Figure 5b





Analytic signal strength





Analytic signal of total magnetic field
computed using Fast Fourier Transform (FFT) for the z-derivative
(normal distribution color method)

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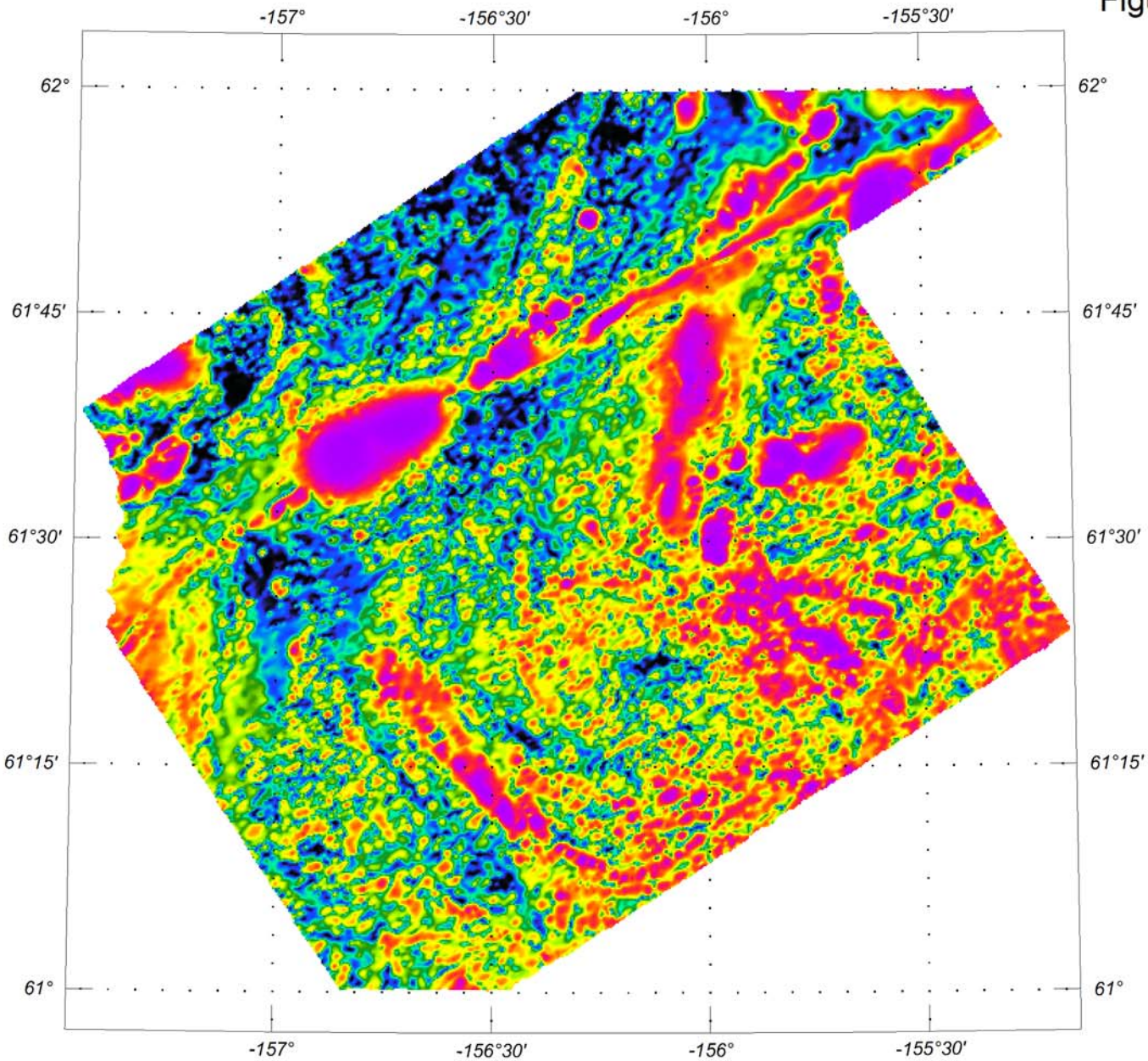
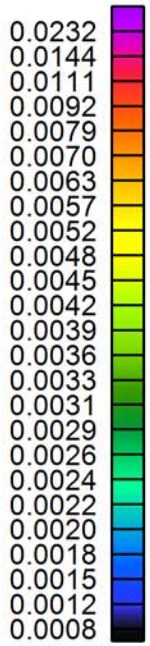
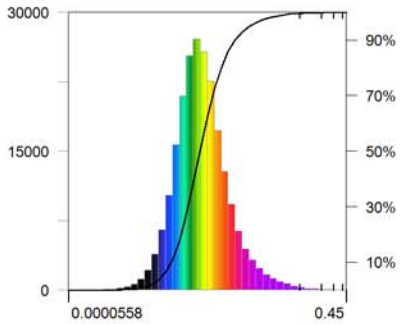
Figure 5c





Analytic signal amplitude



10000 0 10000 20000 30000
metres
NAD27 / UTM zone 4N

Analytic signal of total magnetic field
computed using Fast Fourier Transform (FFT) for the z-derivative
(histogram normalization color method)

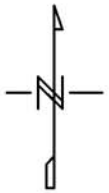


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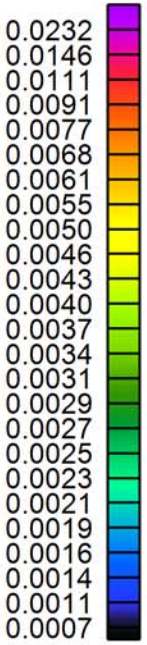
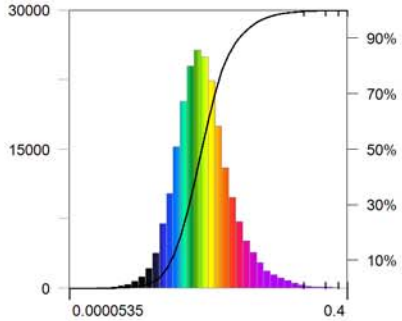
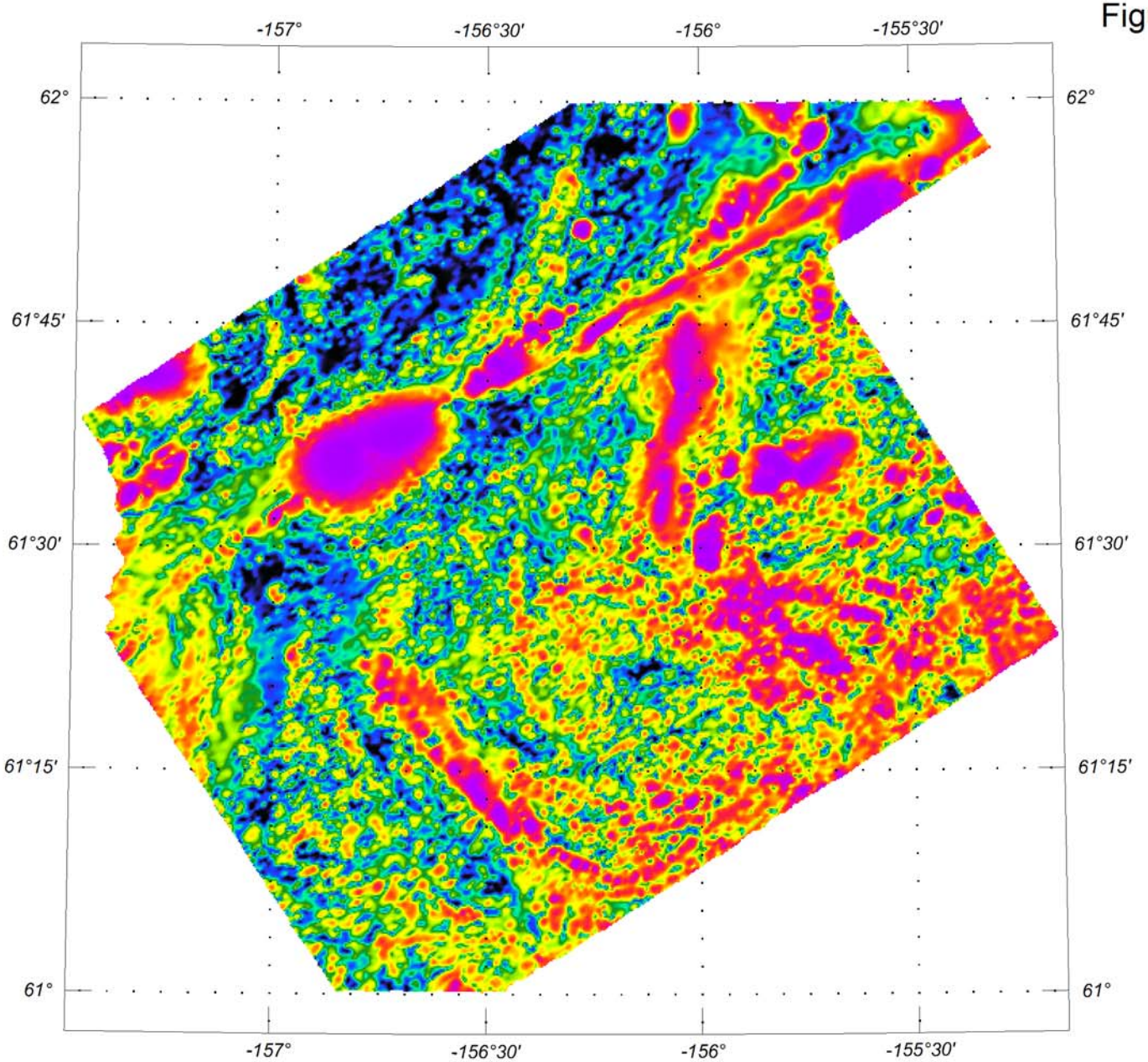
Figure 5d

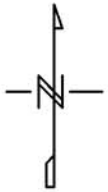


Analytic signal strength





10000 0 10000 20000 30000
metres
NAD27 / UTM zone 4N

Analytic signal of the total magnetic field computed using convolution for the z-derivative

(histogram equalization color method)