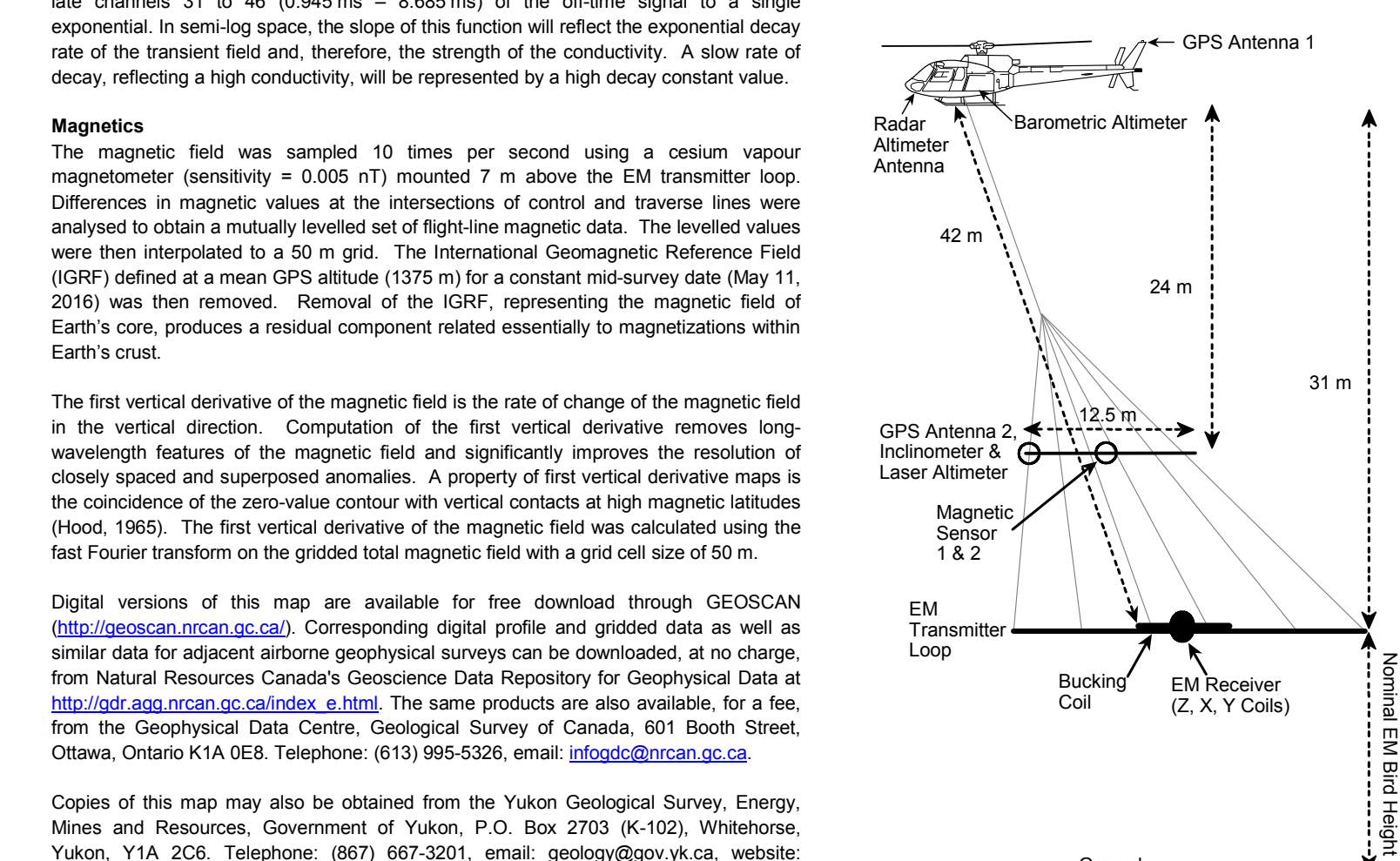


Survey Area Parameters:

Parameter	Value
Traverse the south	90°
Traverse the north	200 m
Traverse the east	100 m
Traverse the west	100 m
Traverse the south	100 m
Traverse the north	100 m
Traverse the east	100 m
Traverse the west	100 m
EM Receiver nominal clearance	100 m
EM Transmitter nominal clearance	100 m
EM Receiver nominal clearance	100 m
EM Transmitter nominal clearance	100 m

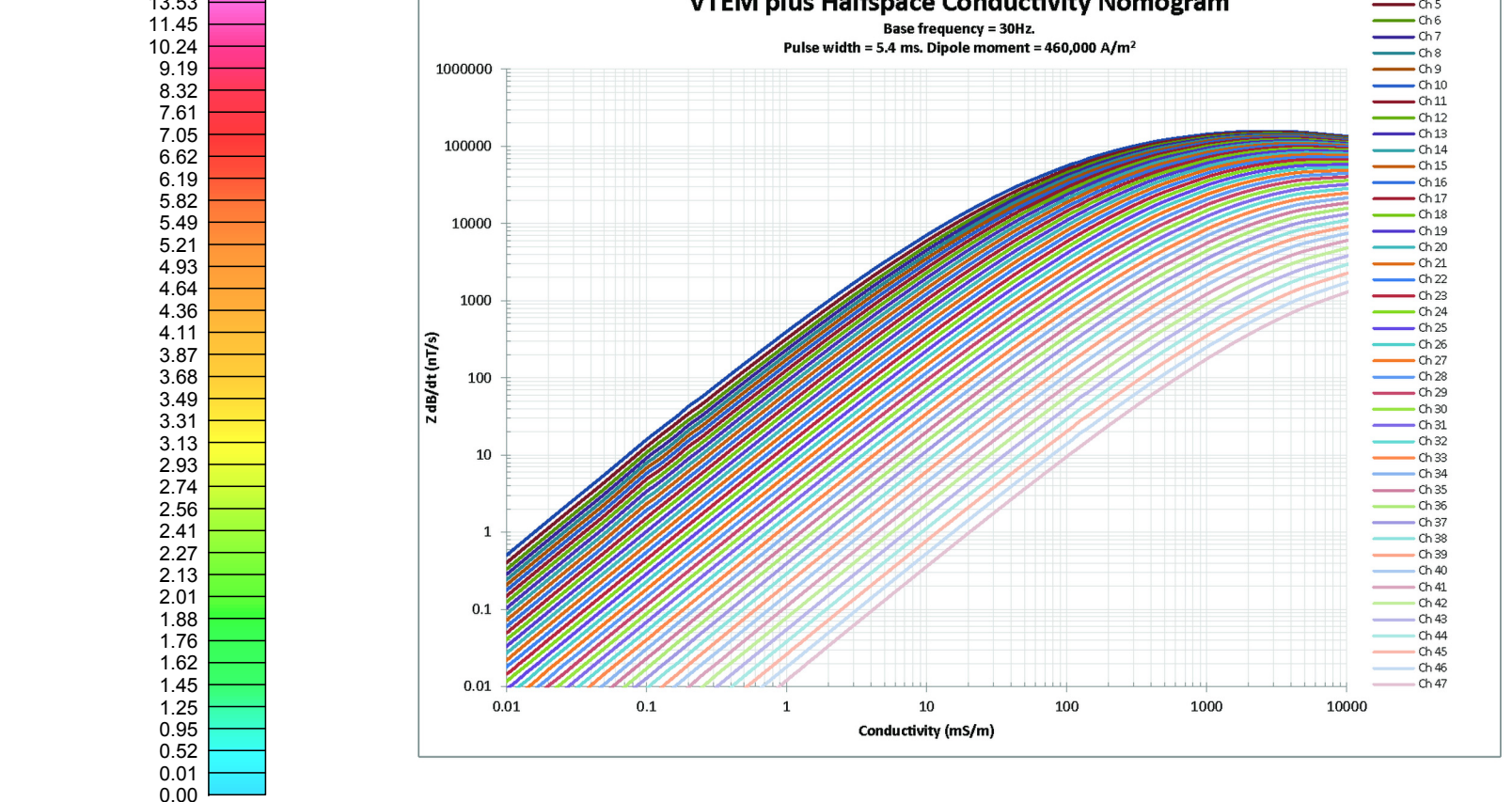
Electromagnetic System Specifications:

Base Frequency	30 Hz
Waveform	Bi-polar trapezoid
Transmitter Pulse width	5.41 ms
Transmitter Area/Effective Area	530.9 m ² / 2123.7 m ²
Transmitter Current	11.17 mA
Transmitter Loop diameter	26 m
Transmitter Current	221 A
Current moment (approximately)	475.00 A·m ² (4 turns)
Windward data sampling rate	10 Hz
Receiver	3-component induction coil (Z, X, Y)
Z and X coil diameter (turns)	1.2 m (100 turns) & 0.30 m (60 turns)
Measured Response	Voltage (dB)
EM Receiver	20 dB
EM Transmitter	20 dB
Digital recording	Channels 4-31 after pulse turn off
1° off zone 2 channel	In-loop 1 & 2



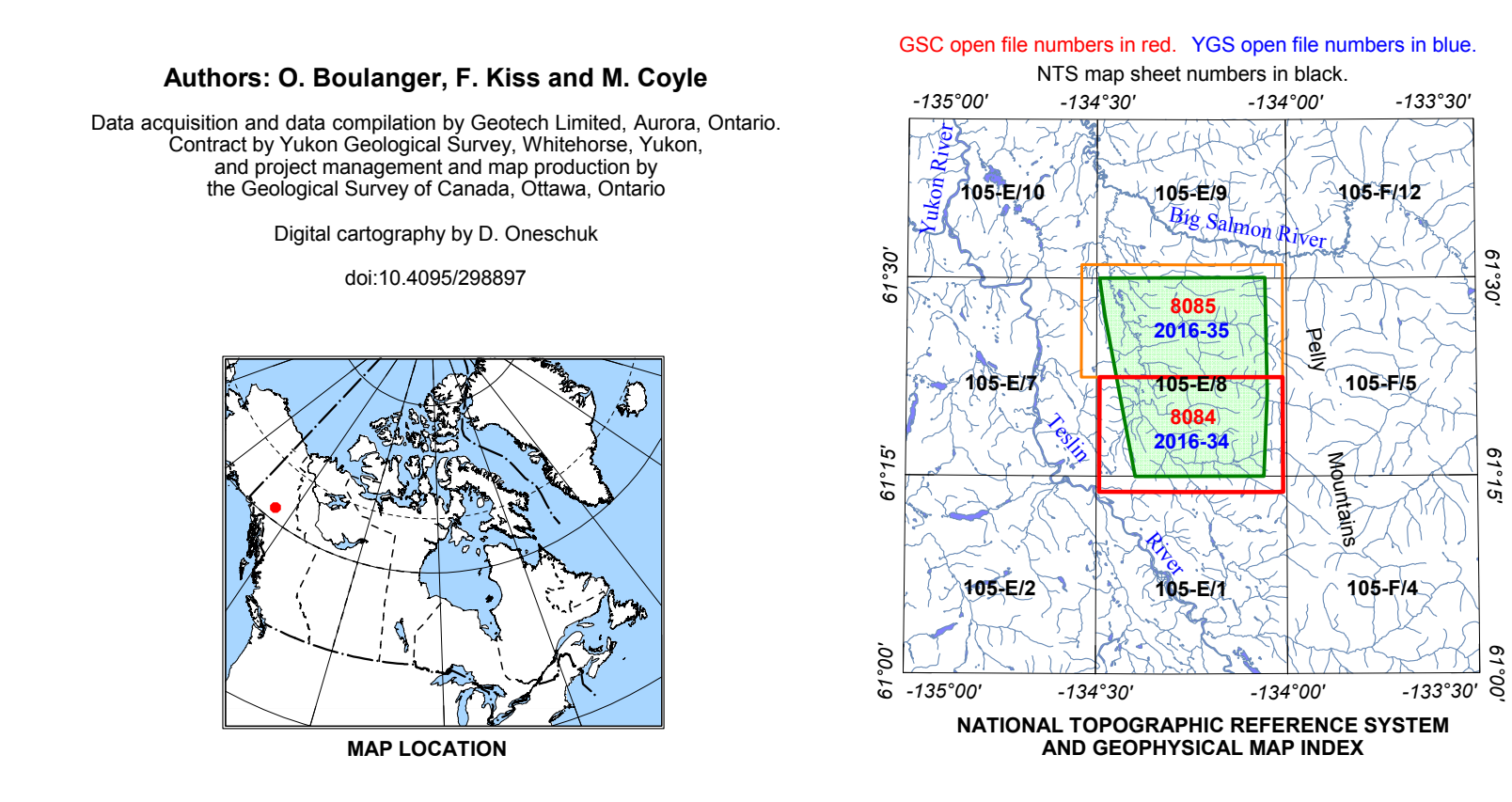
Electromagnetic Decay Constant
Decay constant (tau) values are obtained by fitting the data from selected early channels to a theoretical model. The model assumes a constant resistivity and a constant resistivity. The model is based on the work of (1959) and the time domain electromagnetic response from the conductive half-space. The model is based on the work of (1959) and the time domain electromagnetic response from the conductive half-space. The model is based on the work of (1959) and the time domain electromagnetic response from the conductive half-space.

References
Hood, P.J., 1985. Gradient measurements in aeromagnetic surveying. *Geophysics*, v. 50, p. 891-892.
Mey, M.A., 1968. A simple method of transient electromagnetic data analysis. *Geophysics*, v. 33, p. 425-430.



PLANIMETRIC SYMBOLS

Drainage	Sheet 1: Time Decay Constant (tau) - Early Channels 4 - 14 (0.018 ms - 0.103 ms)
Topographic Contour	Sheet 2: Time Decay Constant (tau) - Mid Channels 15 - 30 (0.103 ms - 0.945 ms)
Contour Interval - 20 m	Sheet 3: Time Decay Constant (tau) - Late Channels 31 - 46 (0.945 ms - 8.685 ms)
Building	Sheet 4: Apparent Conductivity - Early Channels 4 - 14 (0.018 ms - 0.103 ms)
Trail	Sheet 5: Apparent Conductivity - Mid Channels 15 - 30 (0.103 ms - 0.945 ms)
Flight Path	Sheet 6: Apparent Conductivity - Late Channels 31 - 46 (0.945 ms - 8.685 ms)
Project Limit	Sheet 7: First Vertical Derivative of the Magnetic Field
	Sheet 8: First Vertical Derivative of the Magnetic Field
	Sheet 9: Electromagnetic Interpretation



GSC OPEN FILE 8084 / YGS OPEN FILE 2016-34
ELECTROMAGNETIC SURVEY OF THE LIVINGSTONE CREEK AREA
Parts of NTS 105-E11 and 8
APPARENT CONDUCTIVITY
MID CHANNELS 15 - 30 (0.103 ms - 0.945 ms)
Scale 1:20 000
Map projection: Universal Transverse Mercator, zone 8, World Geodetic System 1984
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Topographic data from Natural Resources Canada
Contact: 1-800-953-6767

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