New geophysical insights into the emplacement controls for uraniferous leucogranites in the southern central Zone of the Damaran Orogen

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Uranium Conference 23 - 24 October 2009
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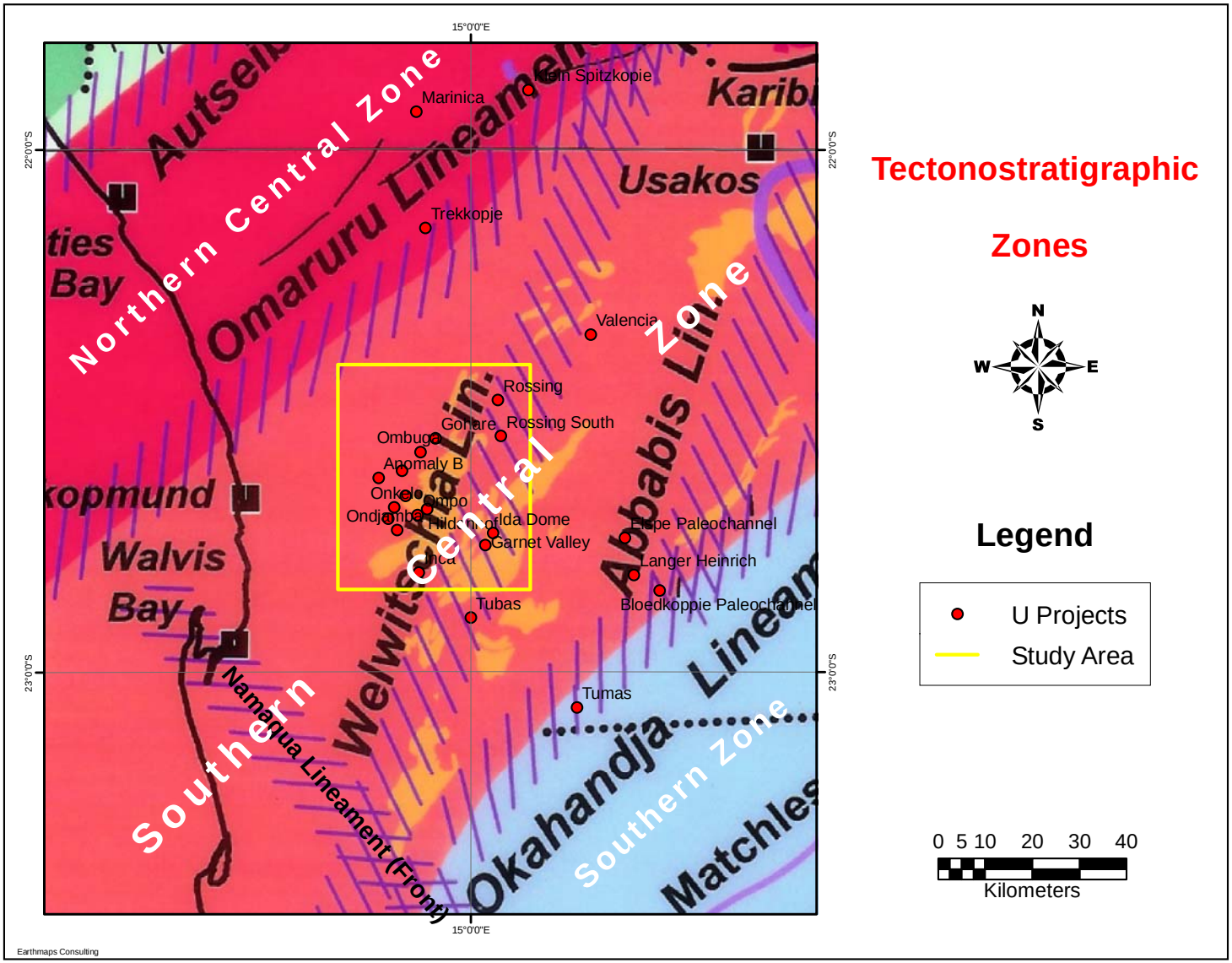

Source:
Branko Corner
(2009)

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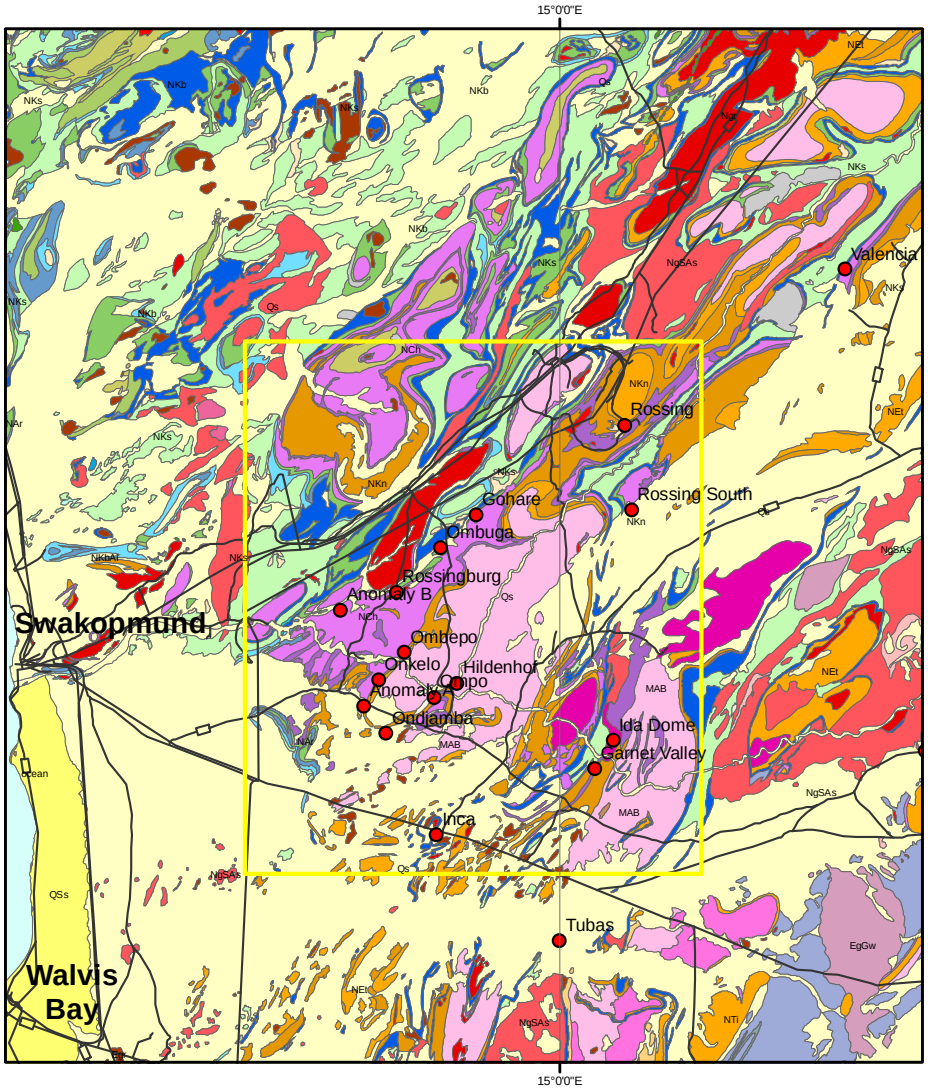

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Geology

1: 250 000

N
W E
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Legend

- U Projects
- Study Area
- Roads

0 5 10 20 30
Kilometers

Source:

GSN

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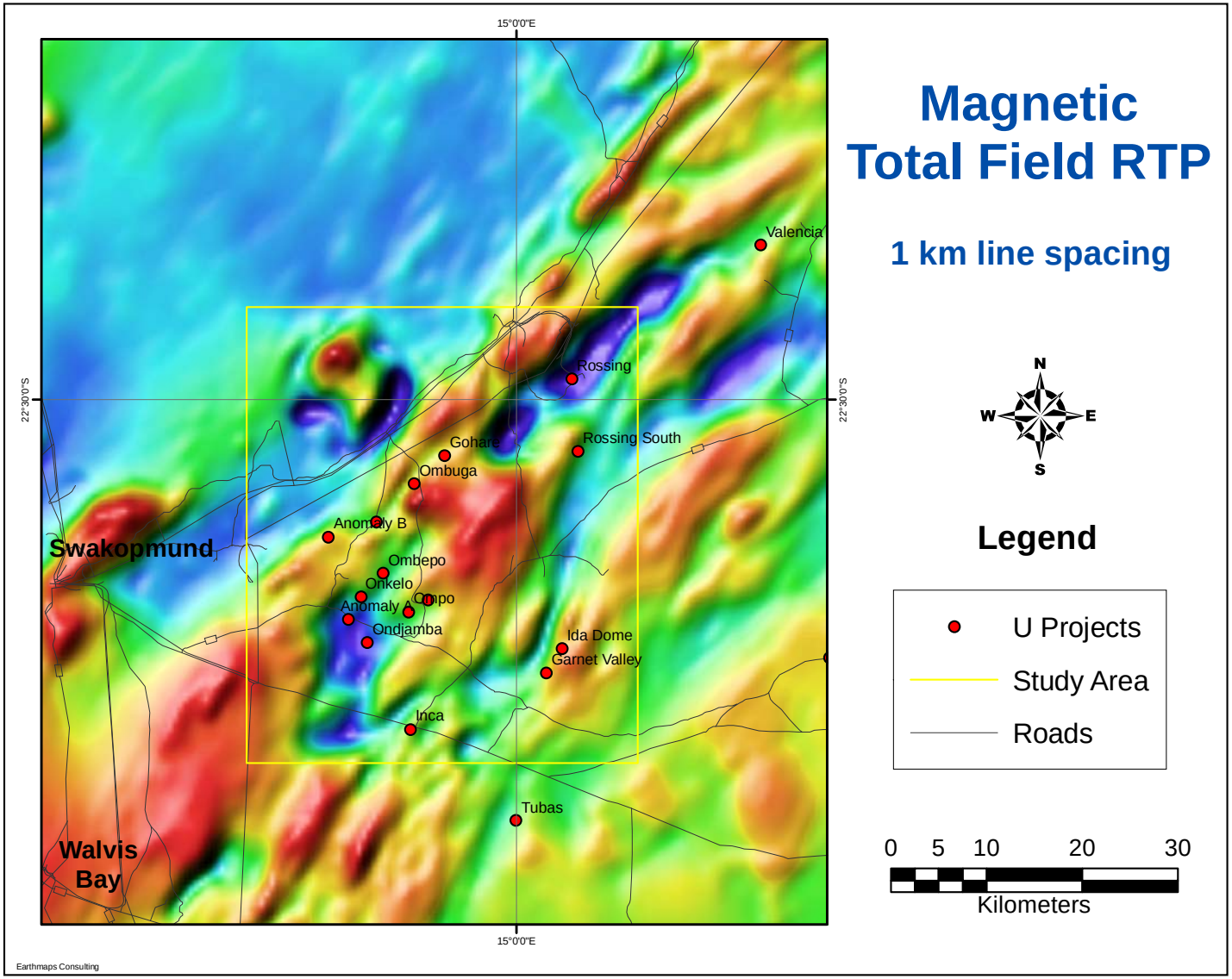

Magnetic Total Field RTP

1 km line spacing

N
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Legend

- U Projects
- Study Area
- Roads

0 5 10 20 30
Kilometers

Data Source: GSN

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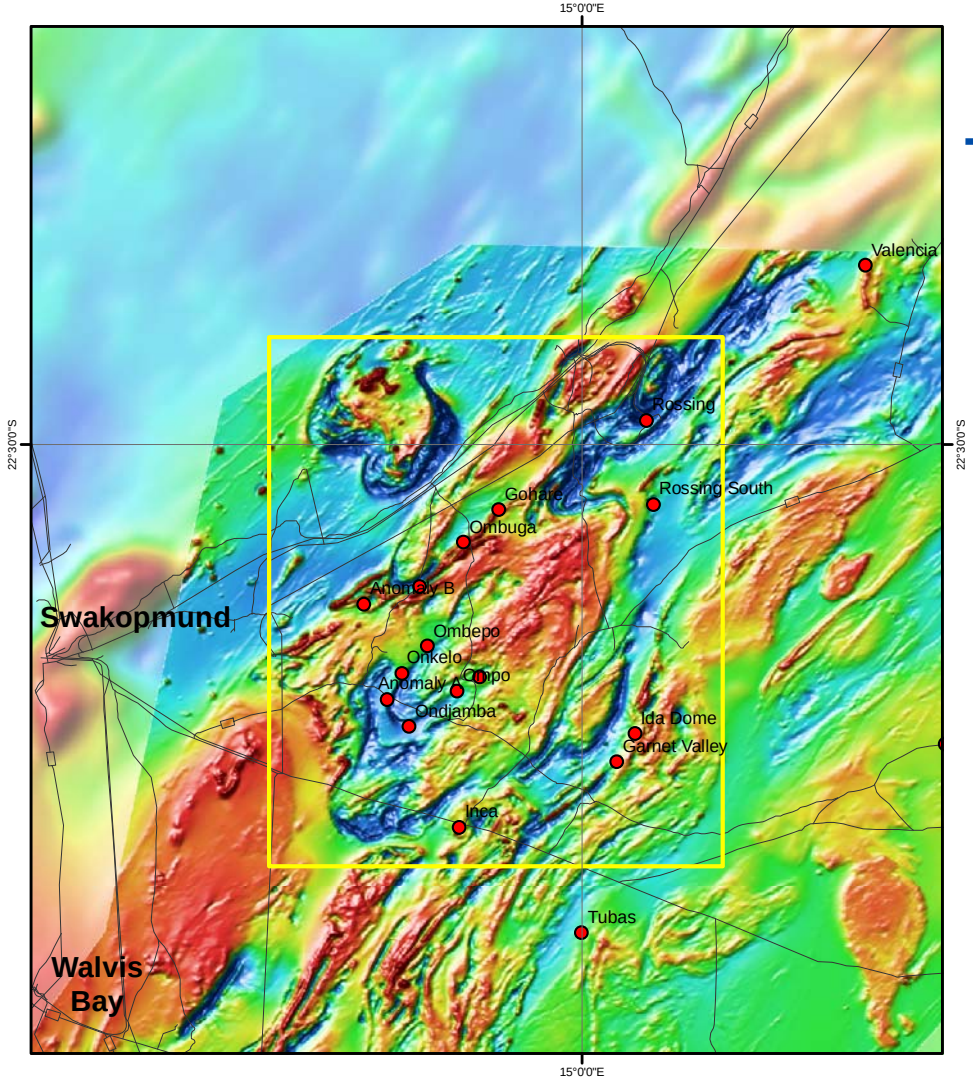
Magnetic Total Field RTP

250 m line spacing



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Legend

- U Projects
- Study Area
- Roads

0 5 10 20 30
Kilometers

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Data Source: GSN

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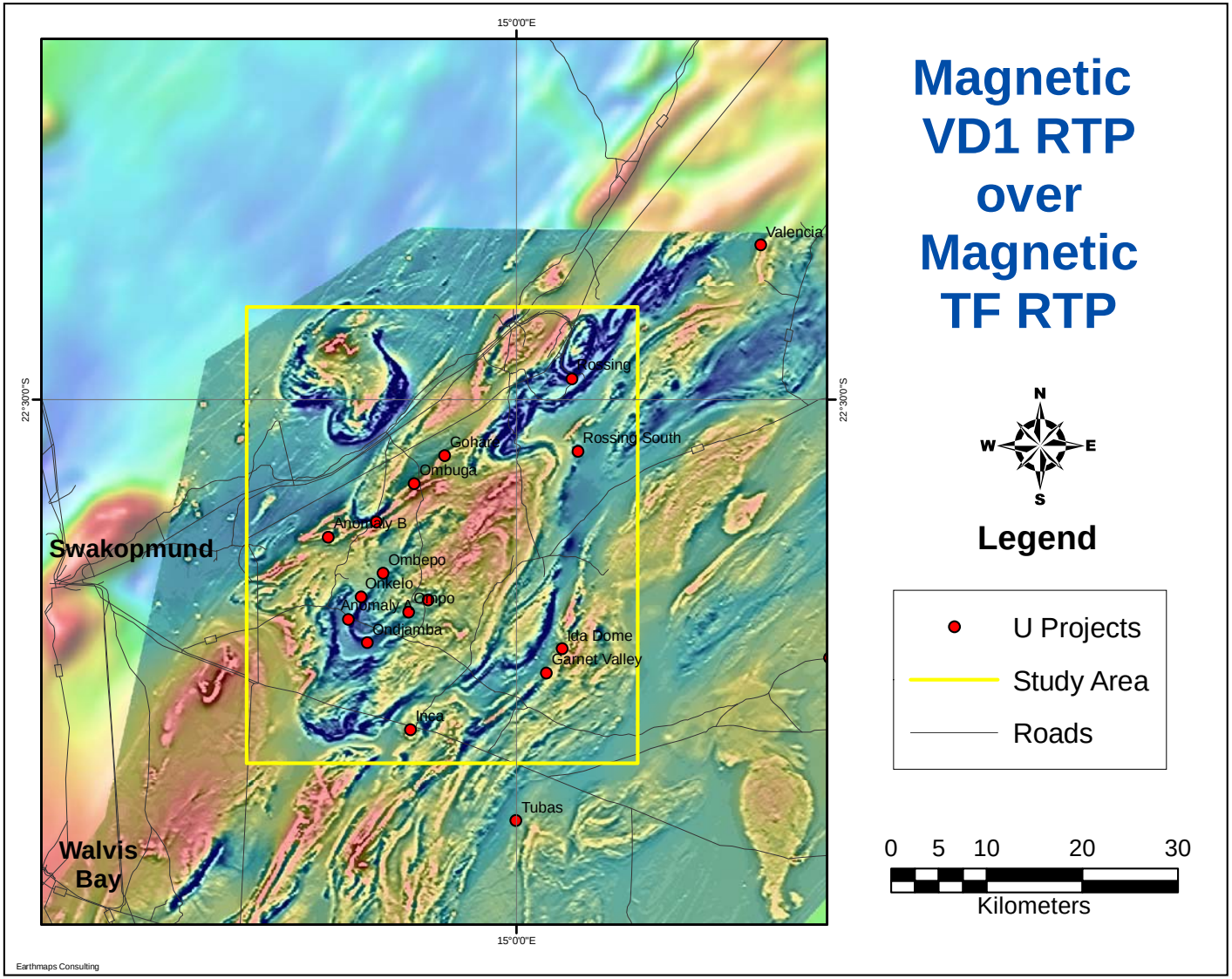
Magnetic VD1 RTP over Magnetic TF RTP



Data Source: GSN

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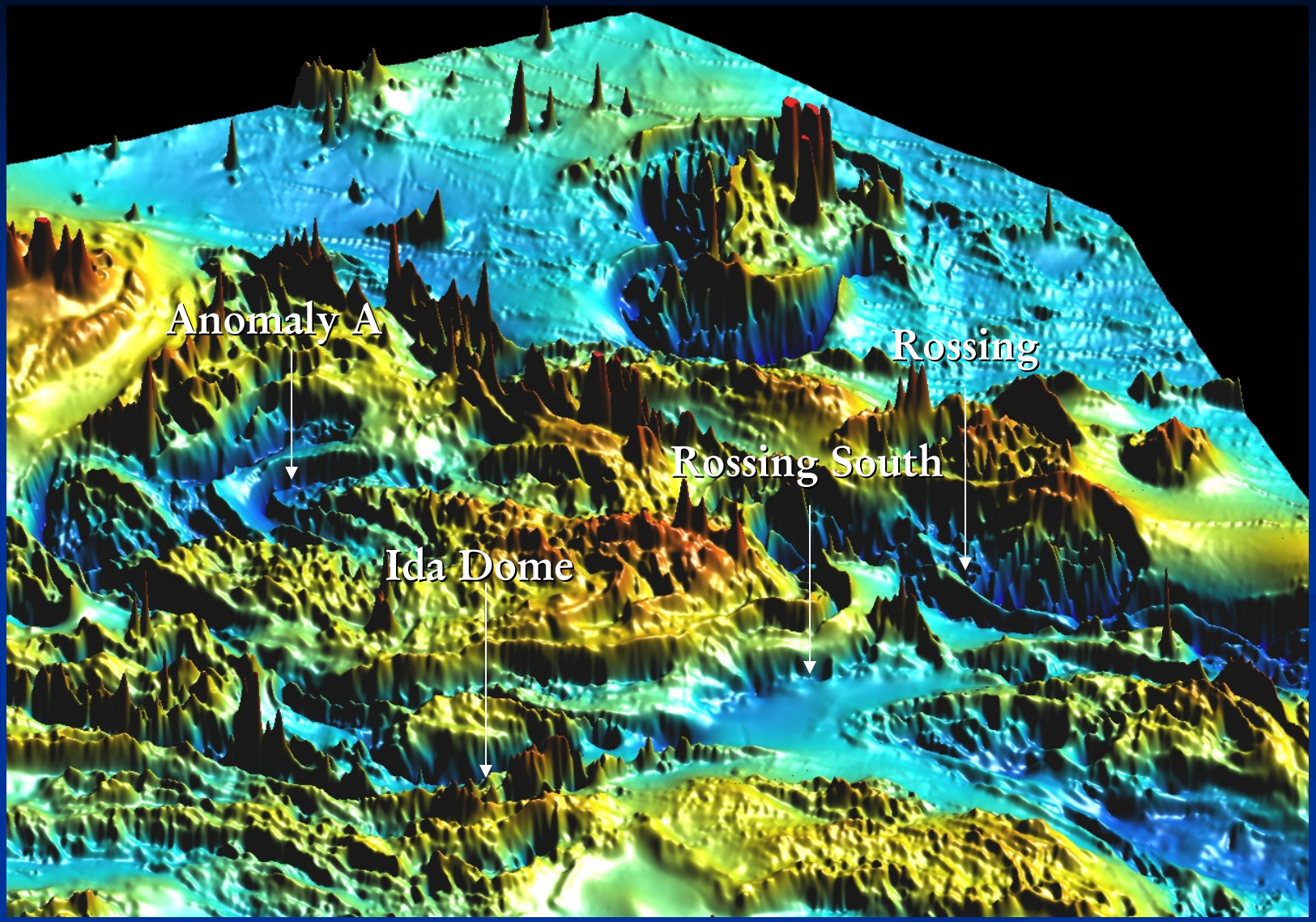

Total Magnetic Field RTP

Data Source: GSN

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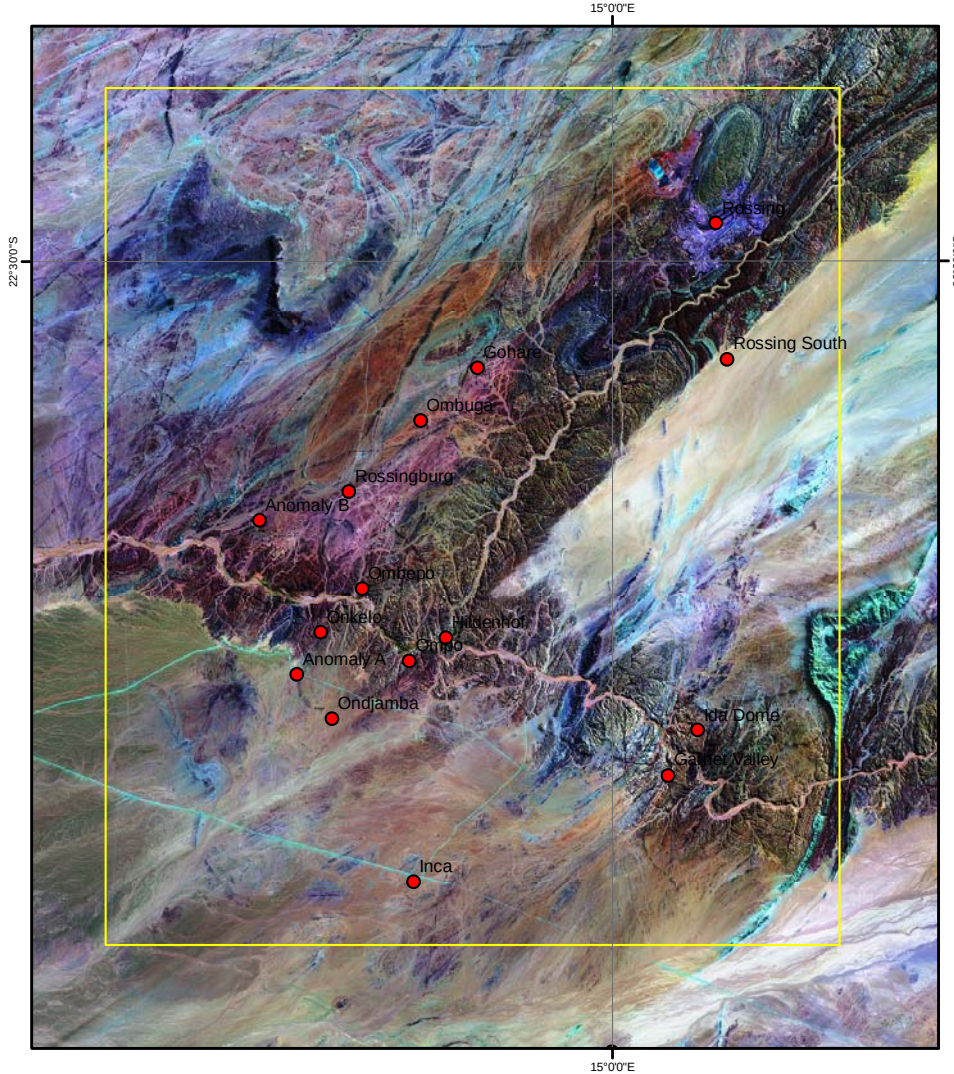

Landsat 741

N
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S

Legend

- U Projects
- Study Area

0 2.5 5 10 15
Kilometers

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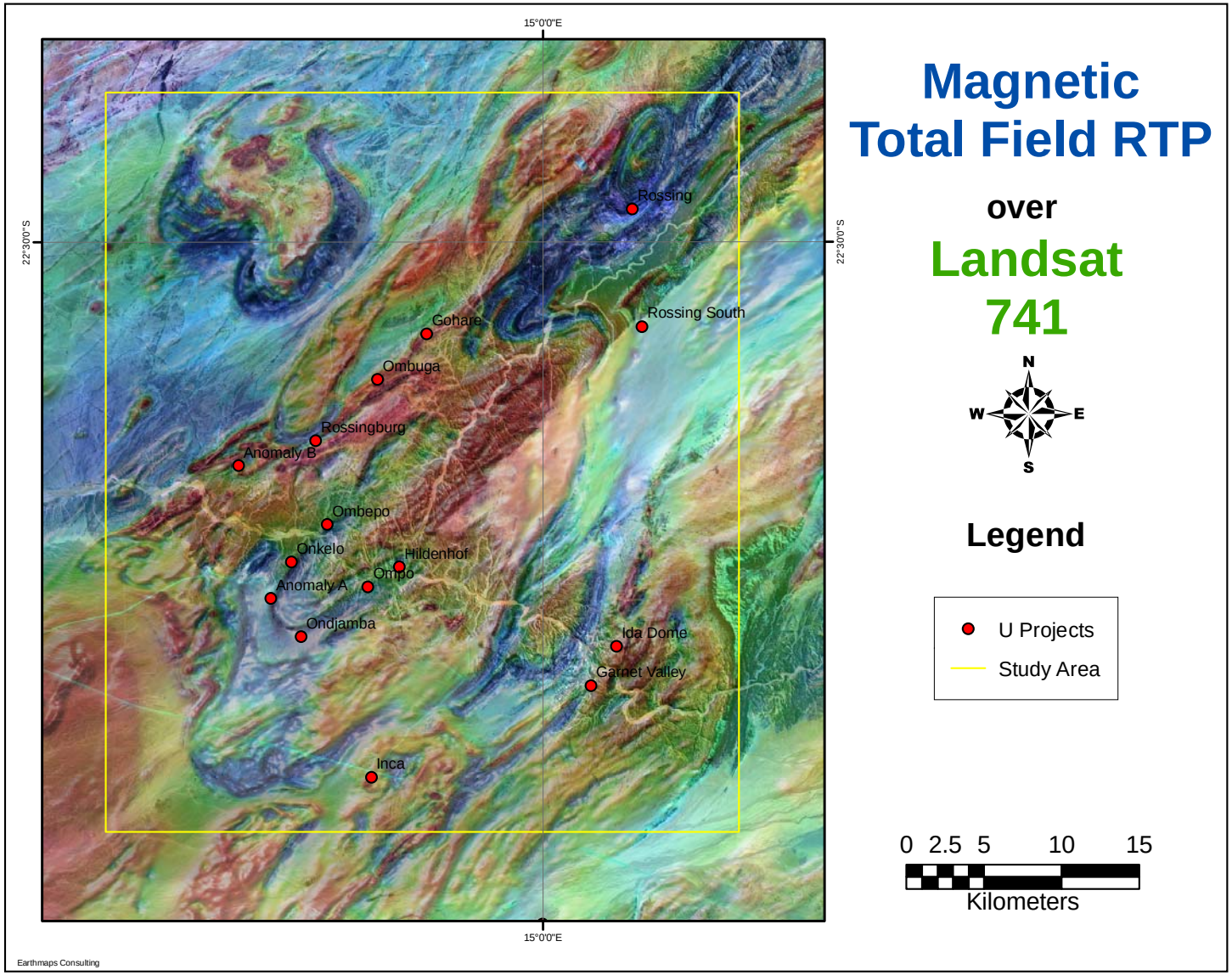

Magnetic Total Field RTP

over

Landsat 741

N
W E
S

Legend

- U Projects
- Study Area

0 2.5 5 10 15
Kilometers

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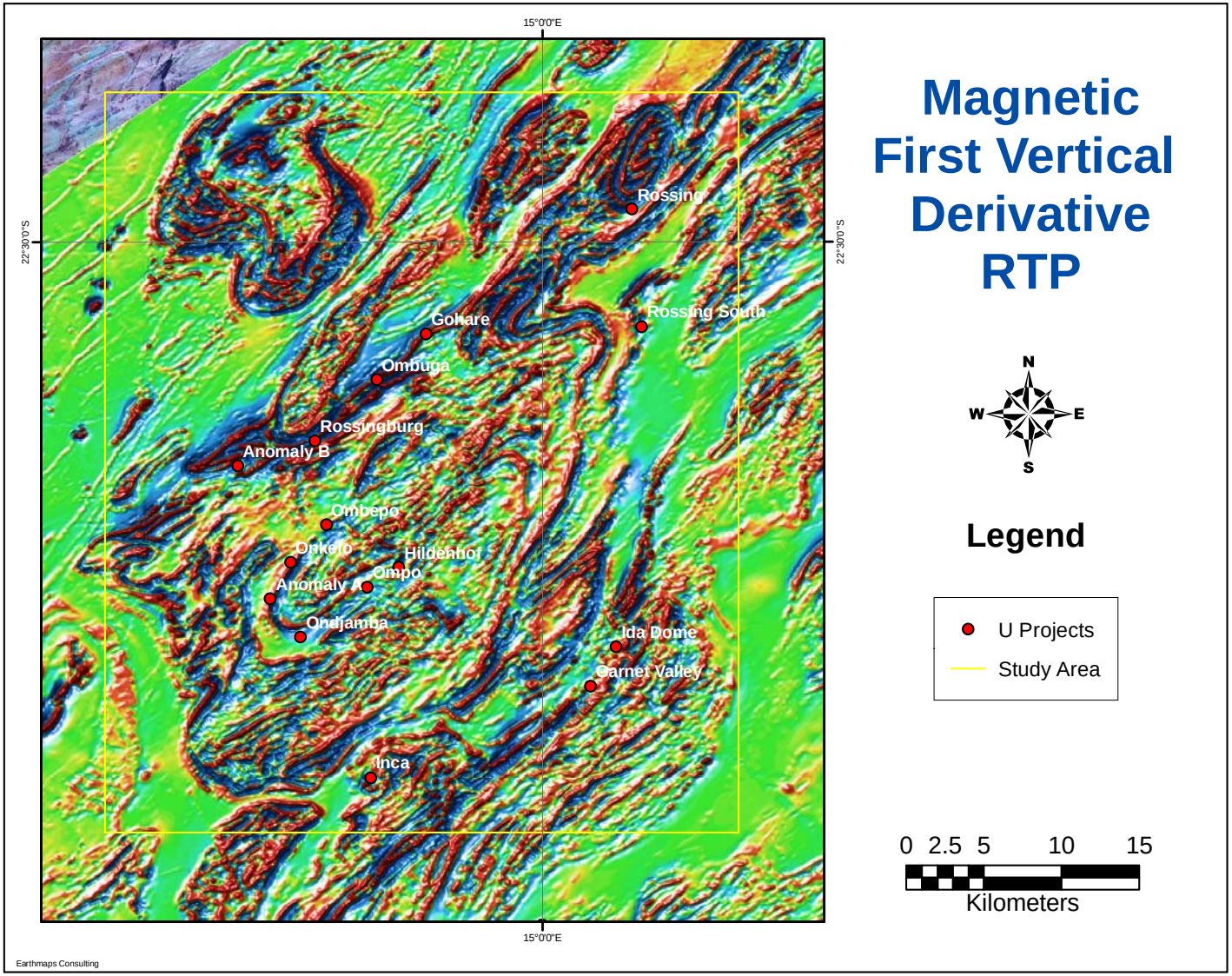

Magnetic First Vertical Derivative RTP

N
W E
S

Legend

- U Projects
- Study Area

0 2.5 5 10 15
Kilometers

Data Source: GSN

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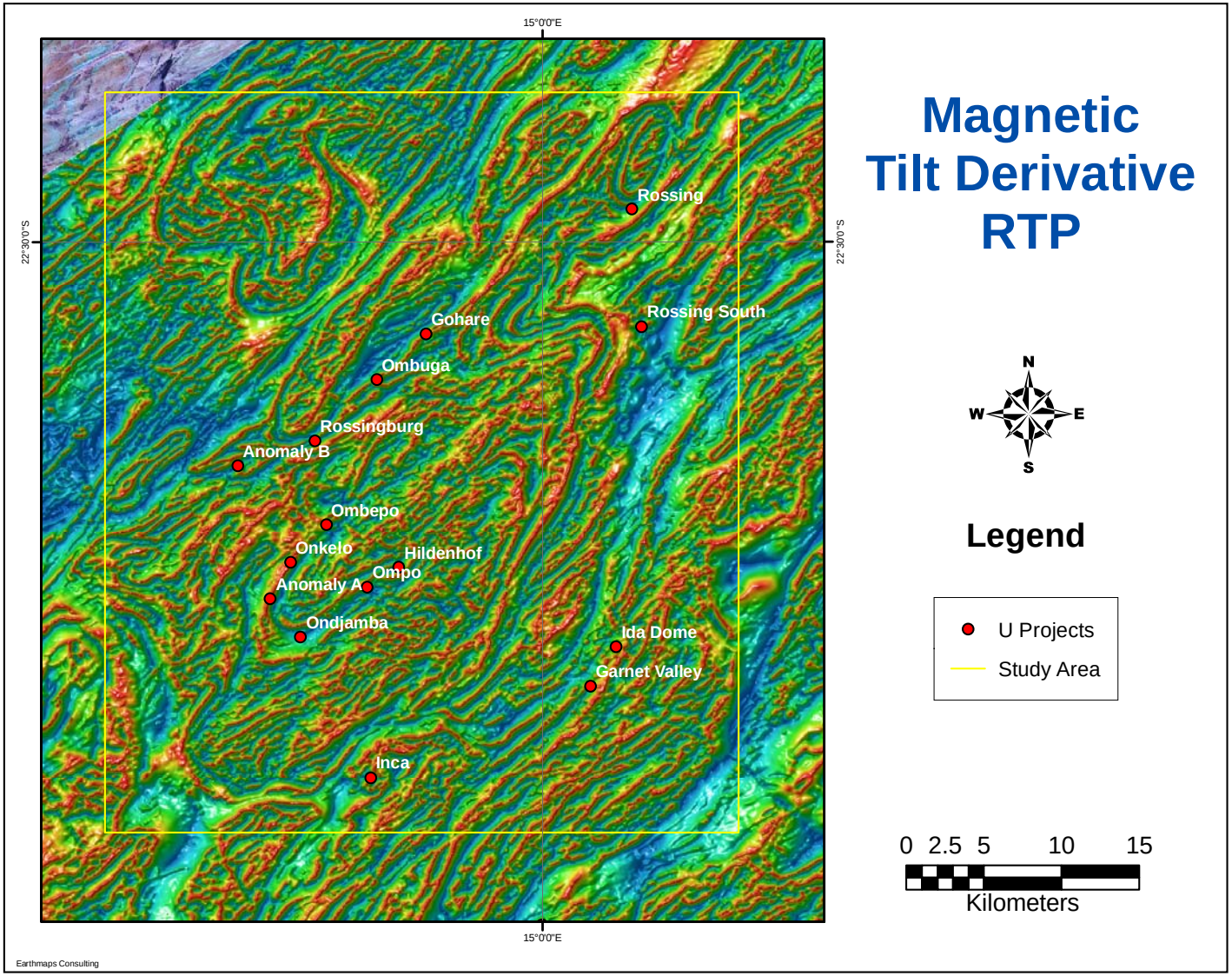

Magnetic Tilt Derivative RTP

N
W E
S

Legend

- U Projects
- Study Area

0 2.5 5 10 15
Kilometers

Data Source: GSN

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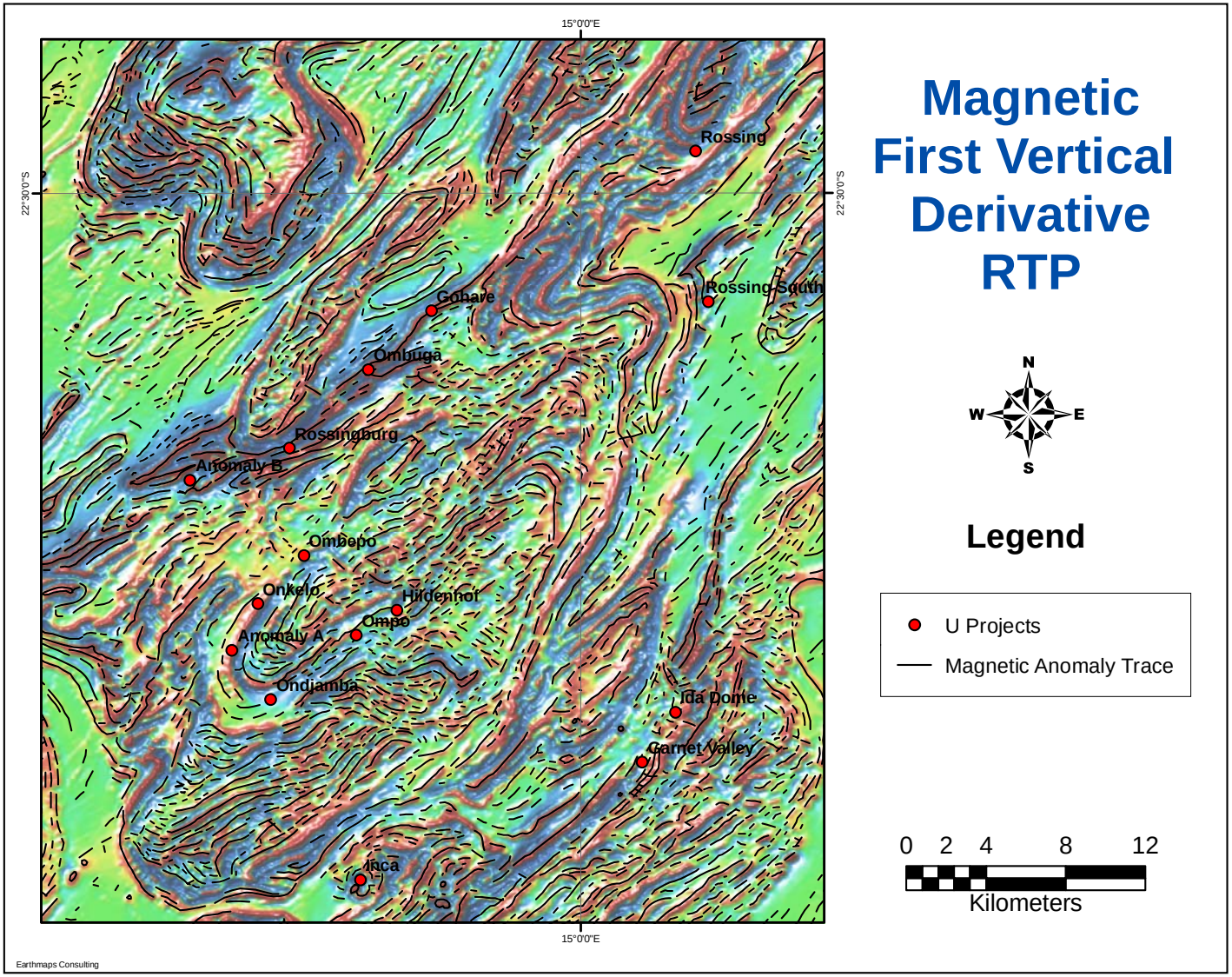

Magnetic Anomaly Traces

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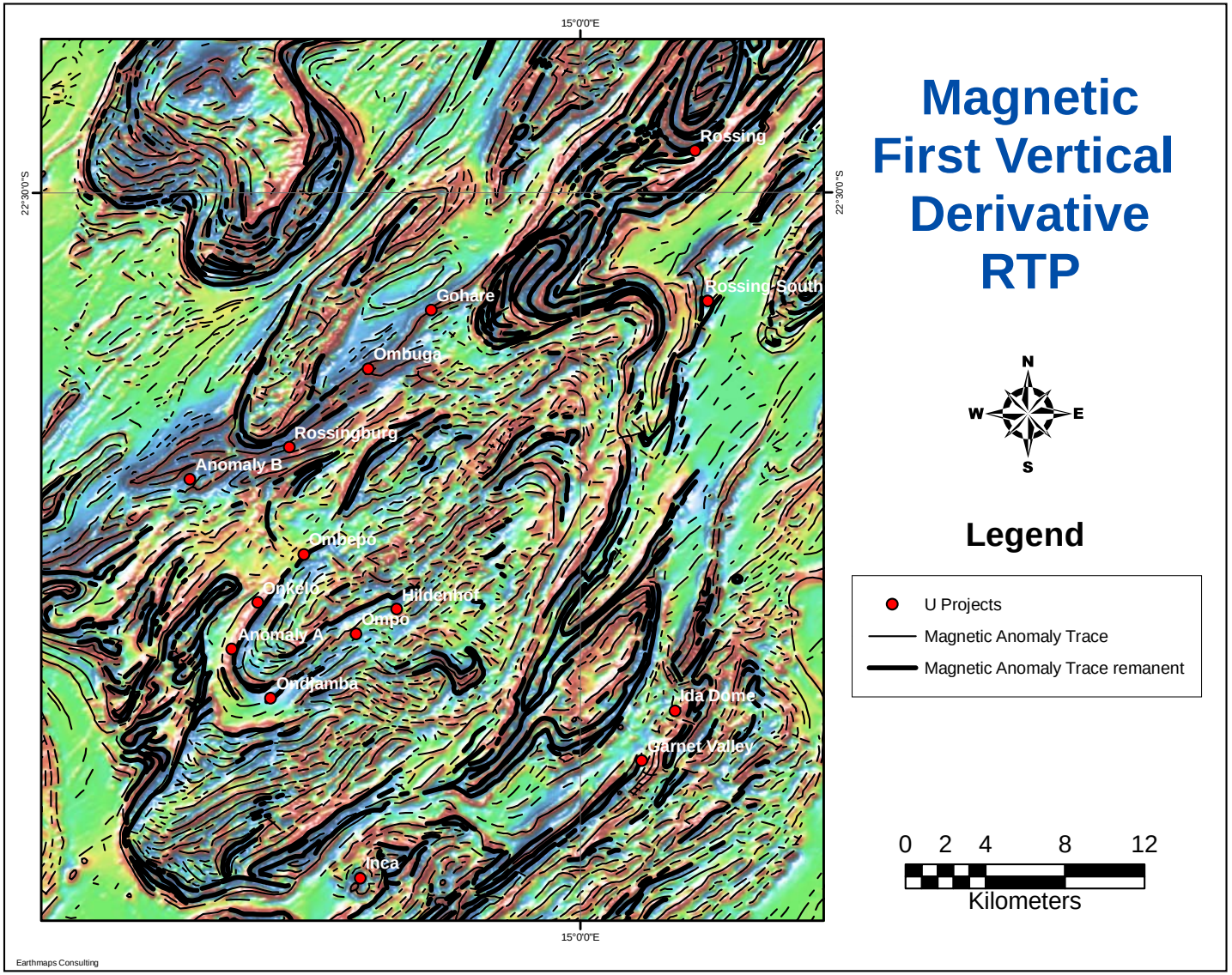

Magnetic Anomaly Traces: Remanent

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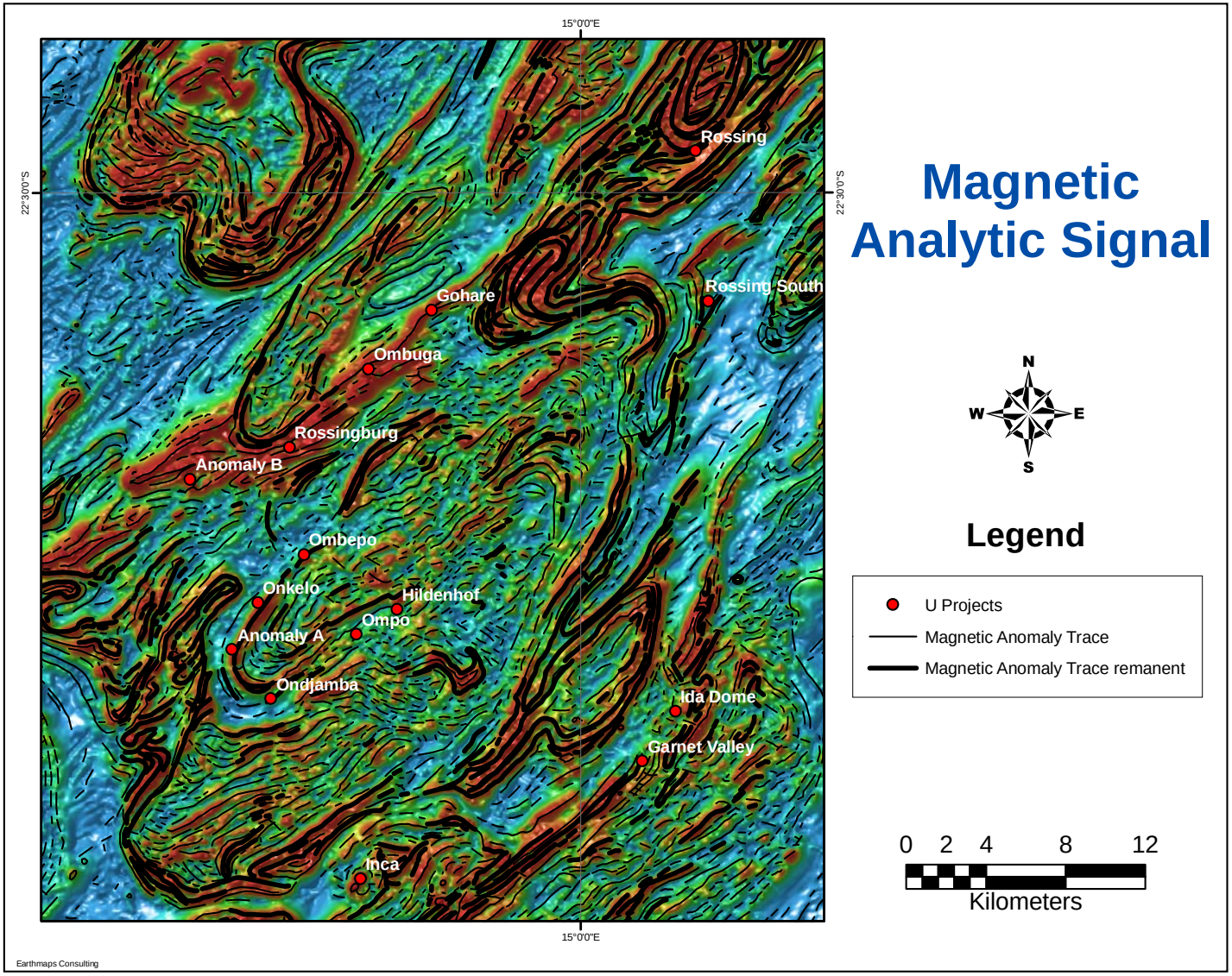

Magnetic Anomaly Traces: Remanent

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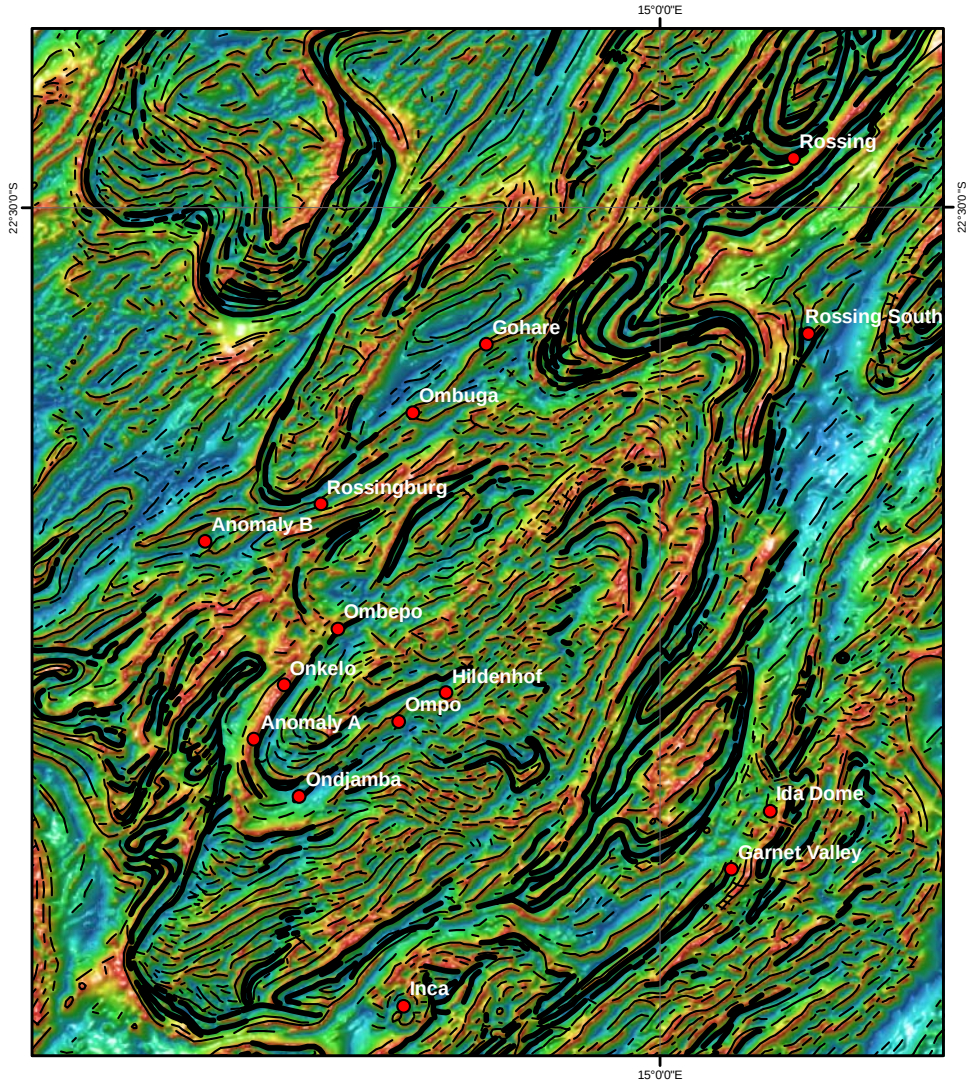
Magnetic Tilt Derivative RTP



Legend

- U Projects
- Magnetic Anomaly Trace
- Magnetic Anomaly Trace remanent

0 2 4 8 12

Kilometers

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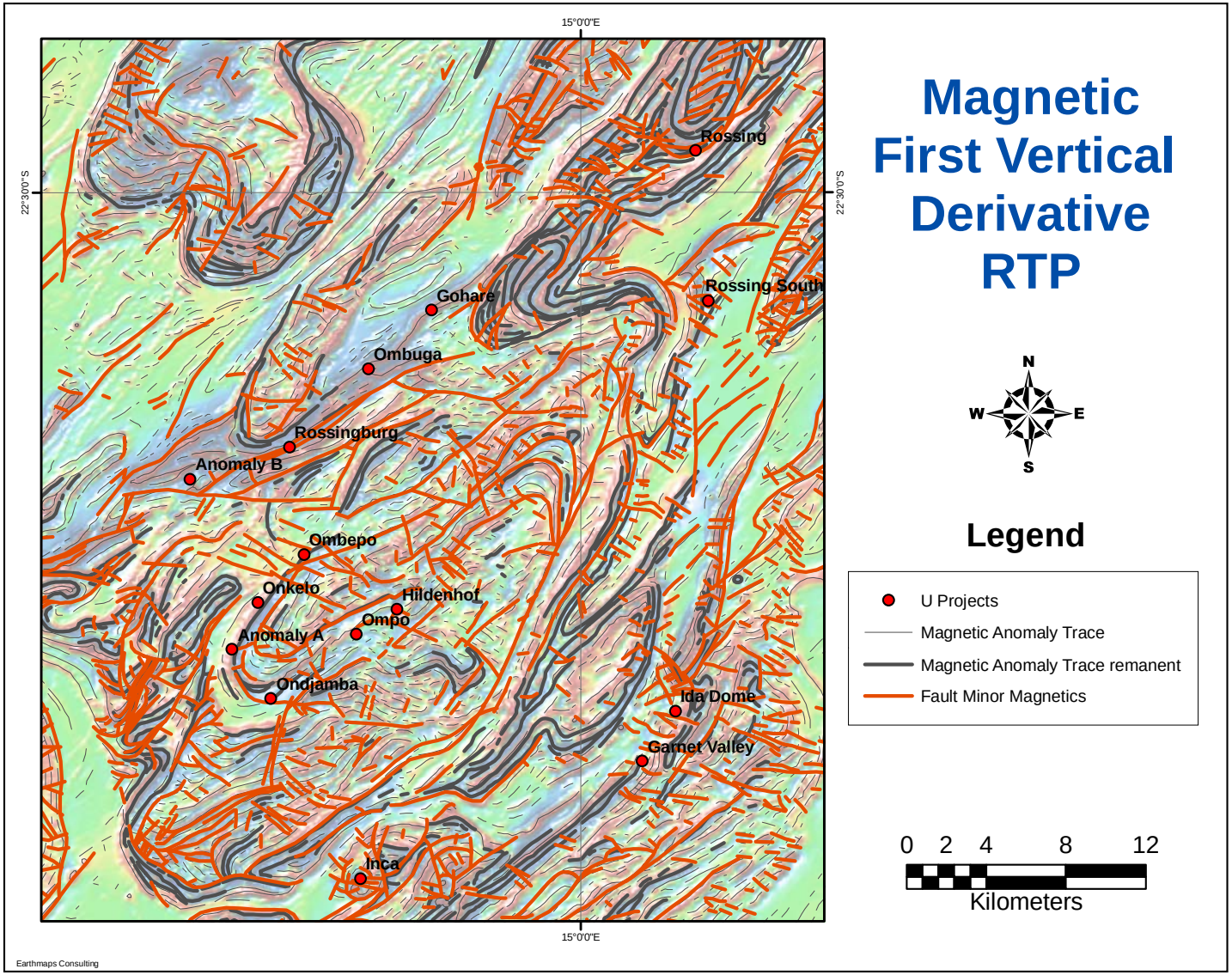

Magnetic First Vertical Derivative RTP

N
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Legend

- U Projects
- Magnetic Anomaly Trace
- Magnetic Anomaly Trace remanent
- Fault Minor Magnetics

0 2 4 8 12
Kilometers

Minor Faults

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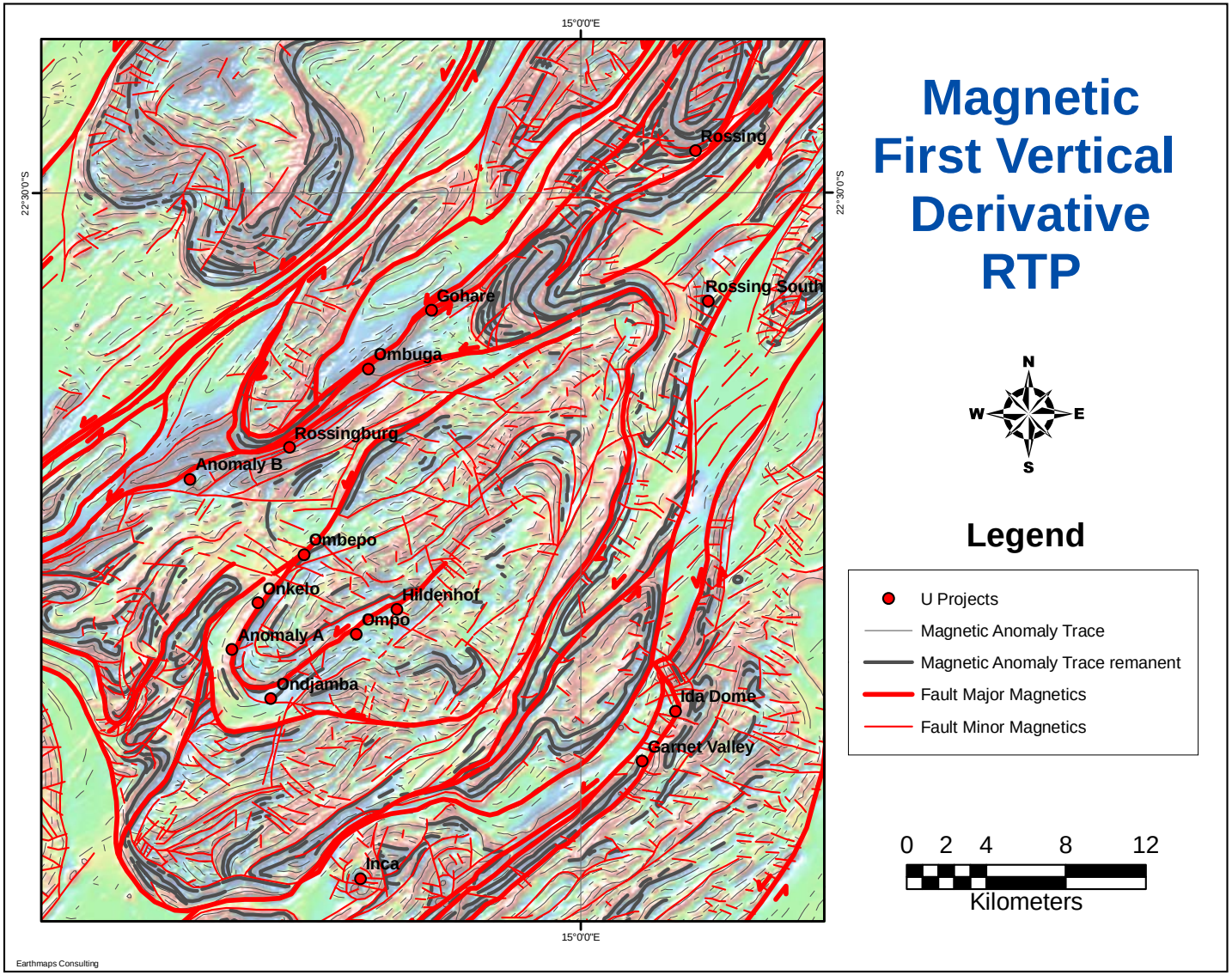

Minor Faults

Major Faults

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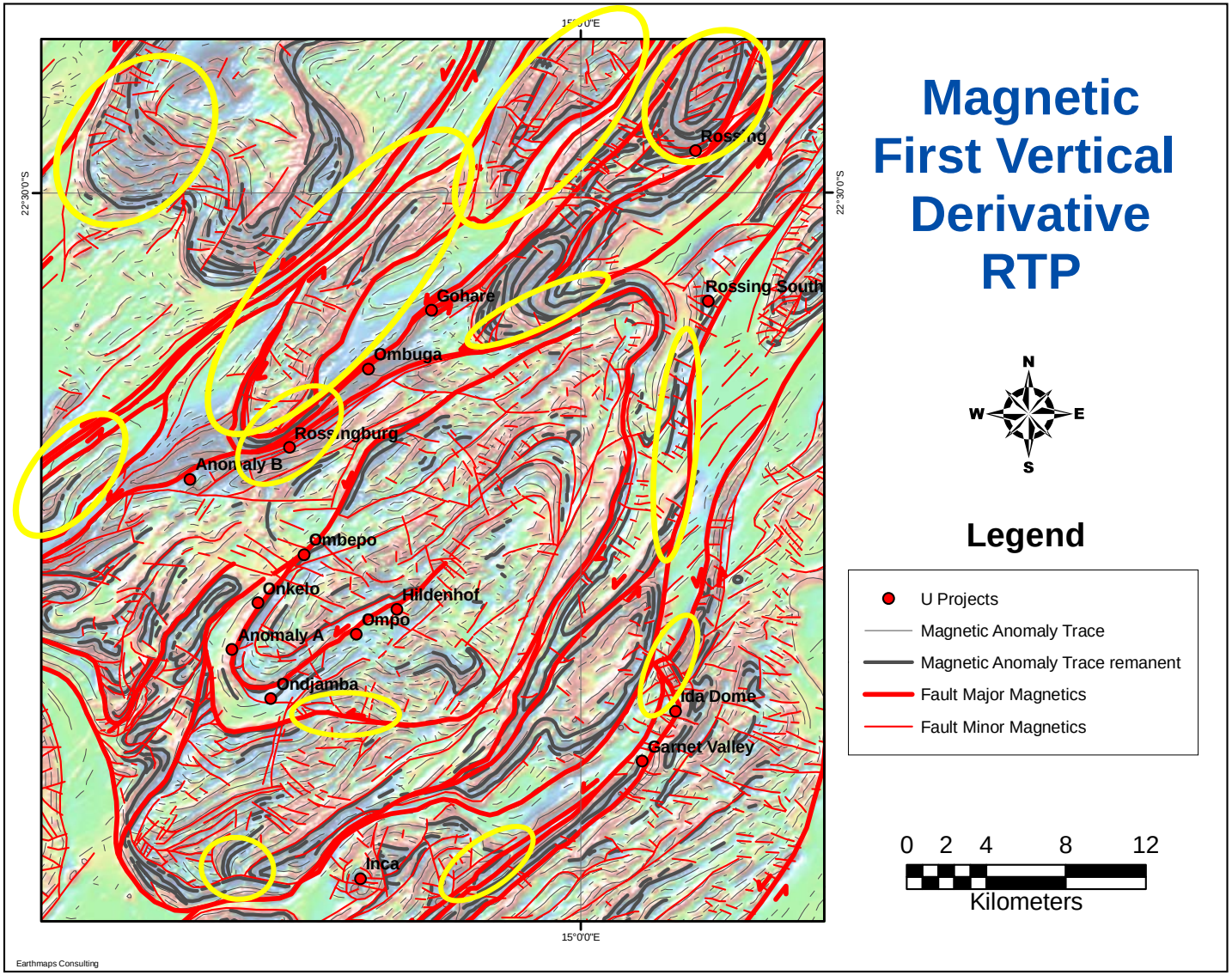

Minor Faults

Major Faults

= Evidence of LL displace-ment

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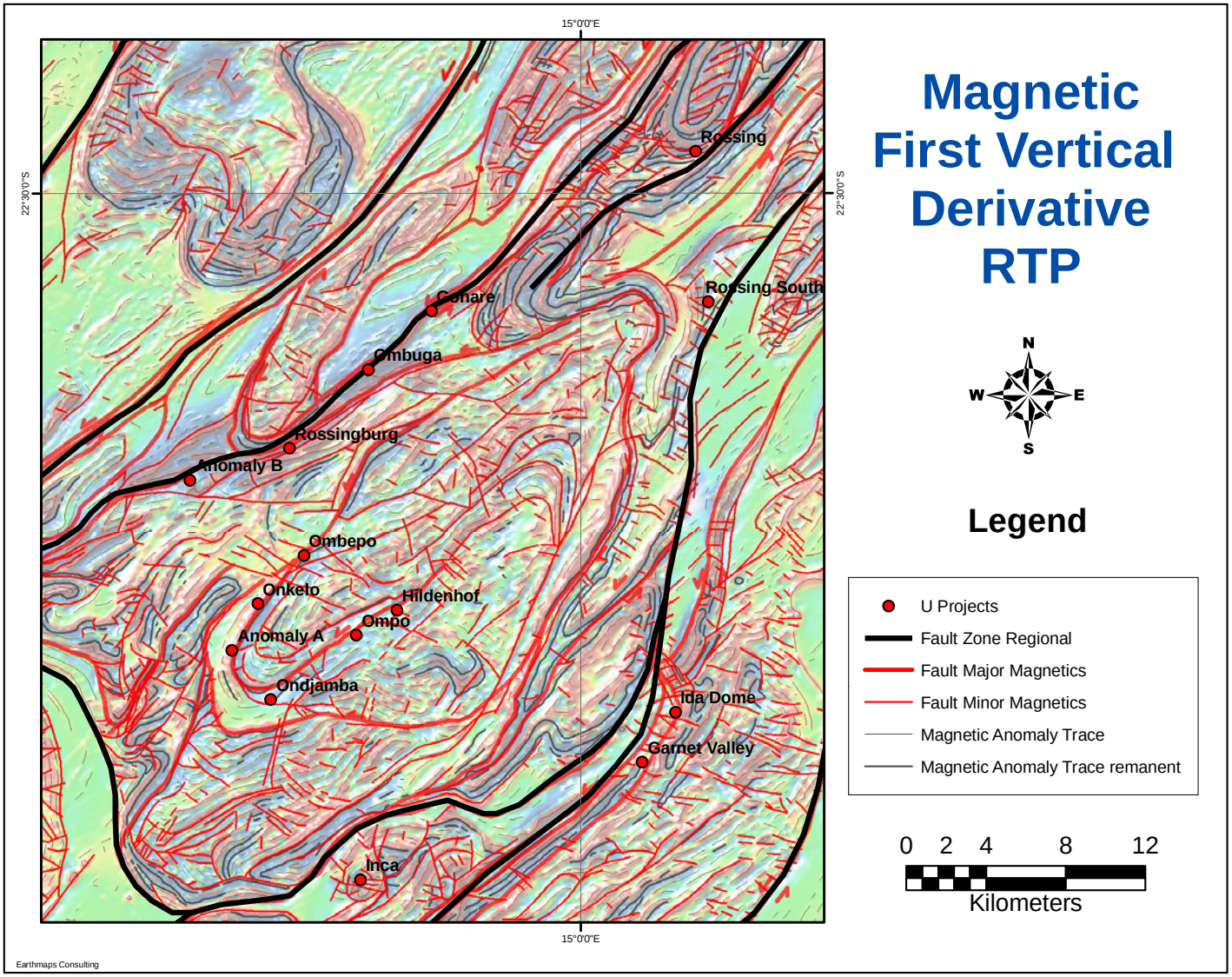

Minor Faults
Major Faults
Fault Zones

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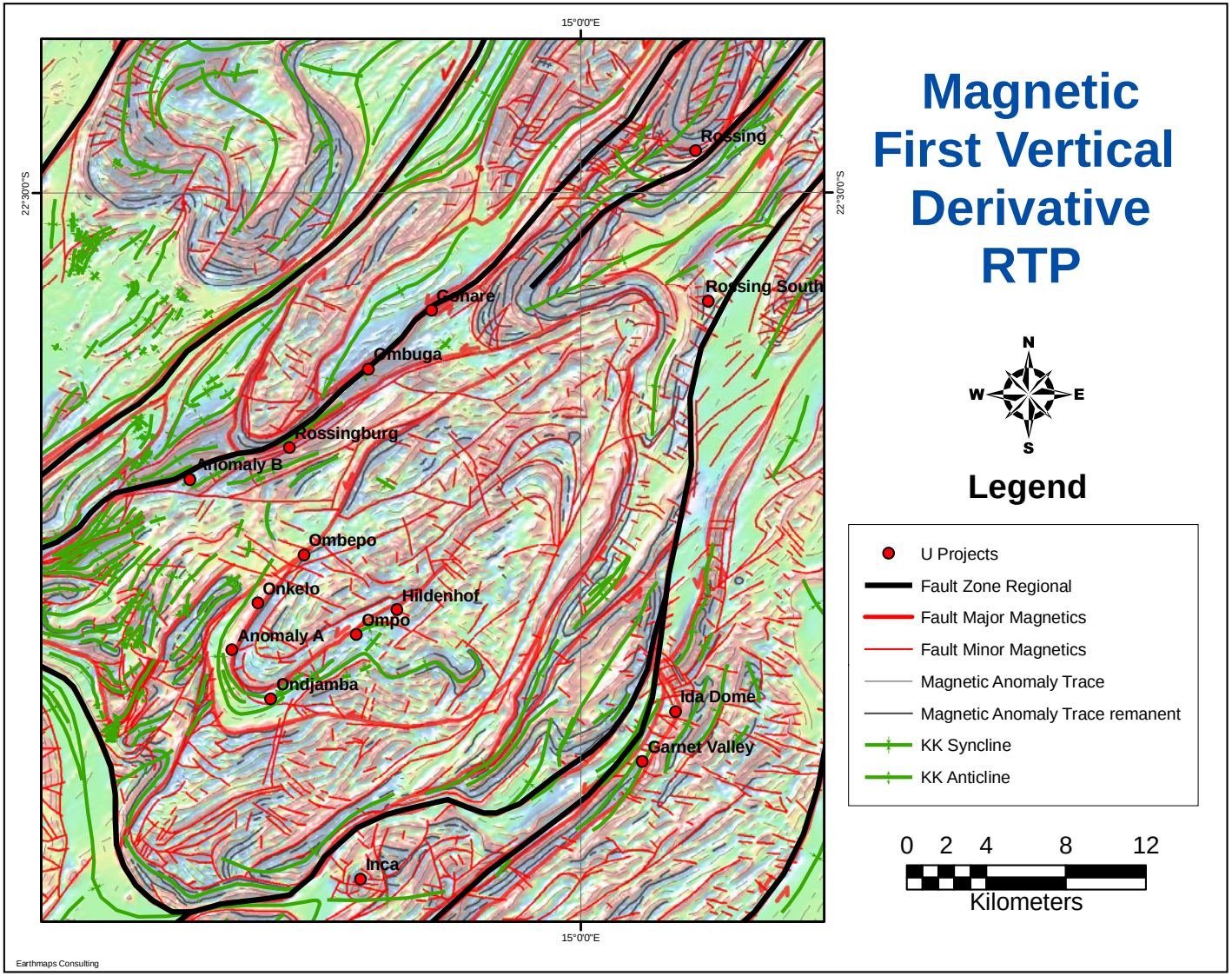

Minor Faults
Major Faults
Fault Zones
Folds

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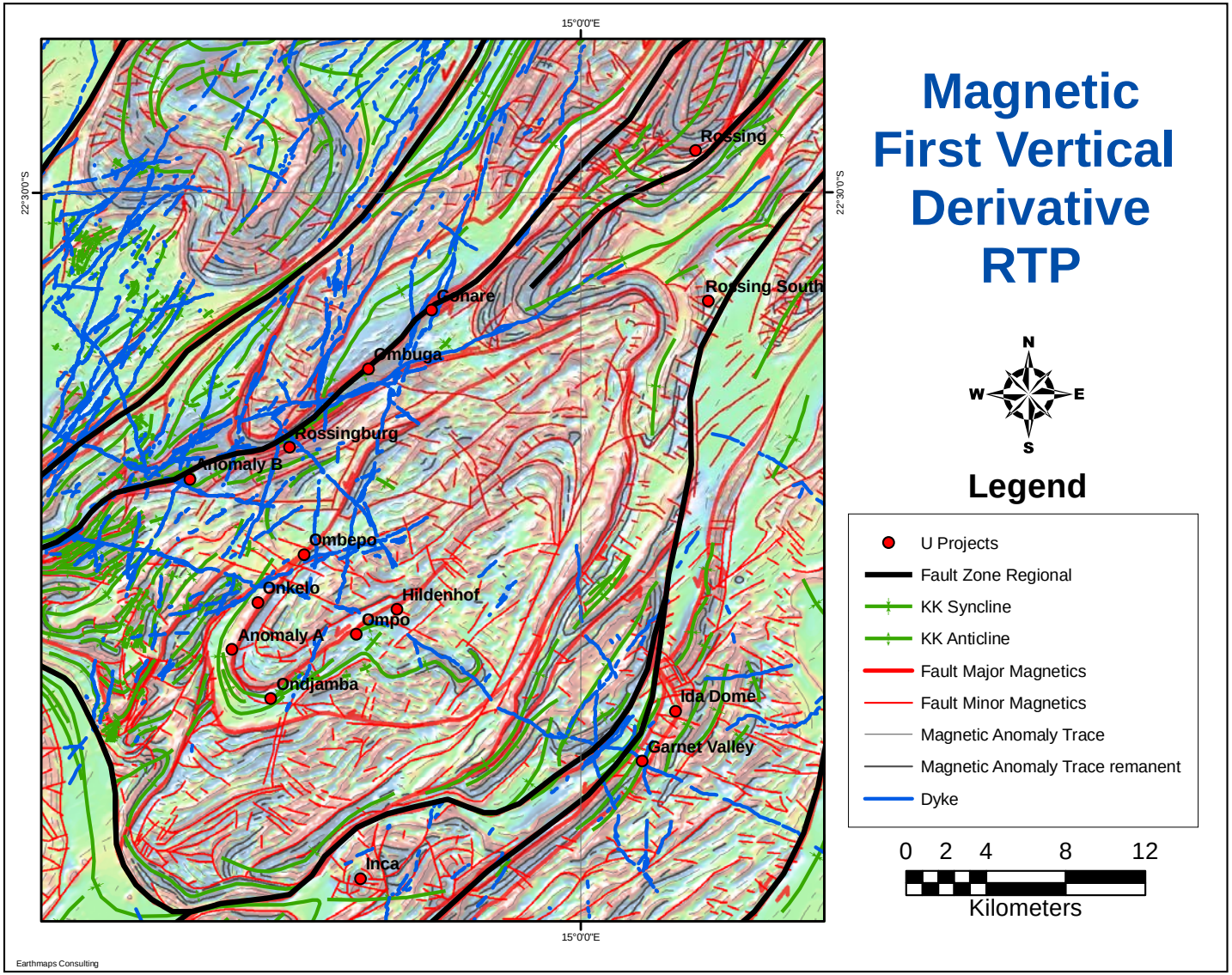

Minor Faults
Major Faults
Fault Zones
Dykes

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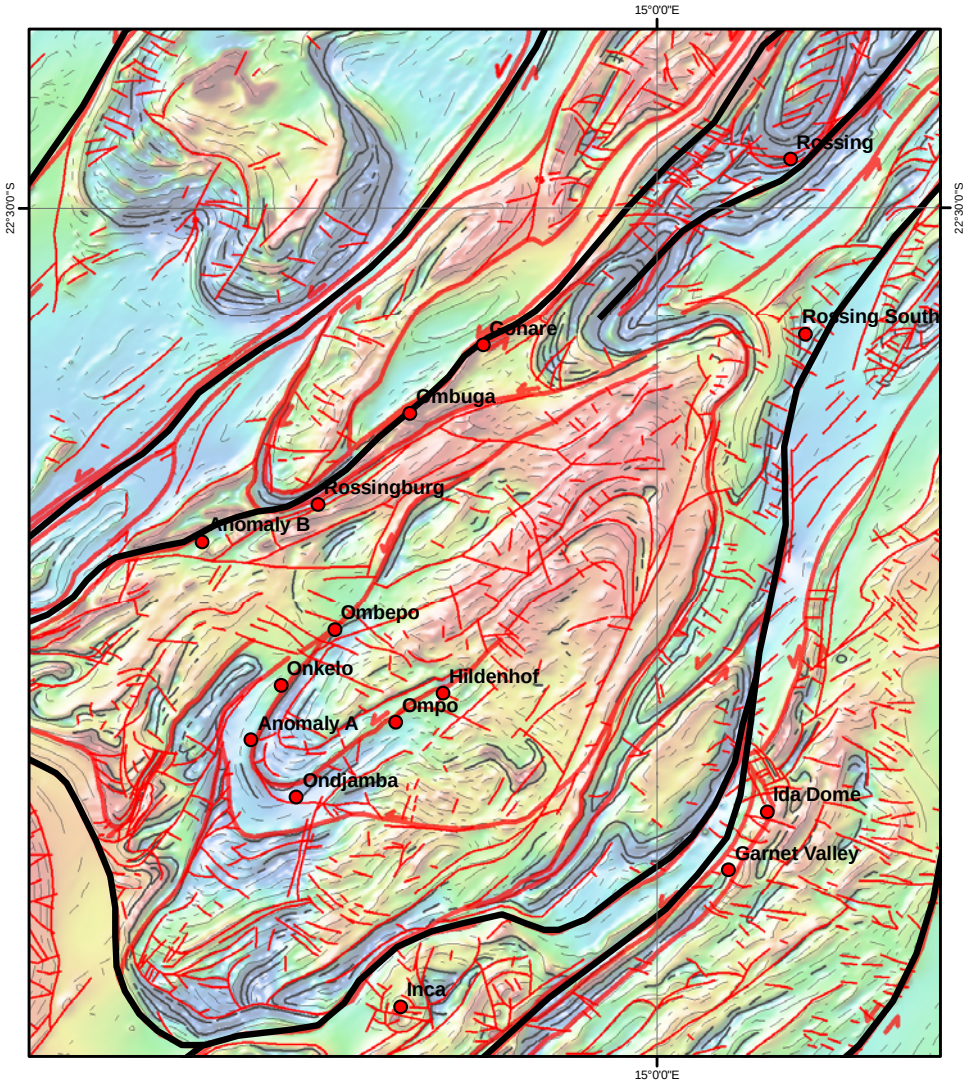
Magnetic First Vertical Derivative RTP



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N
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S

Legend

- U Projects
- Fault Zone Regional
- Fault Major Magnetics
- Fault Minor Magnetics
- Magnetic Anomaly Trace
- Magnetic Anomaly Trace remanent

0 2 4 8 12
Kilometers

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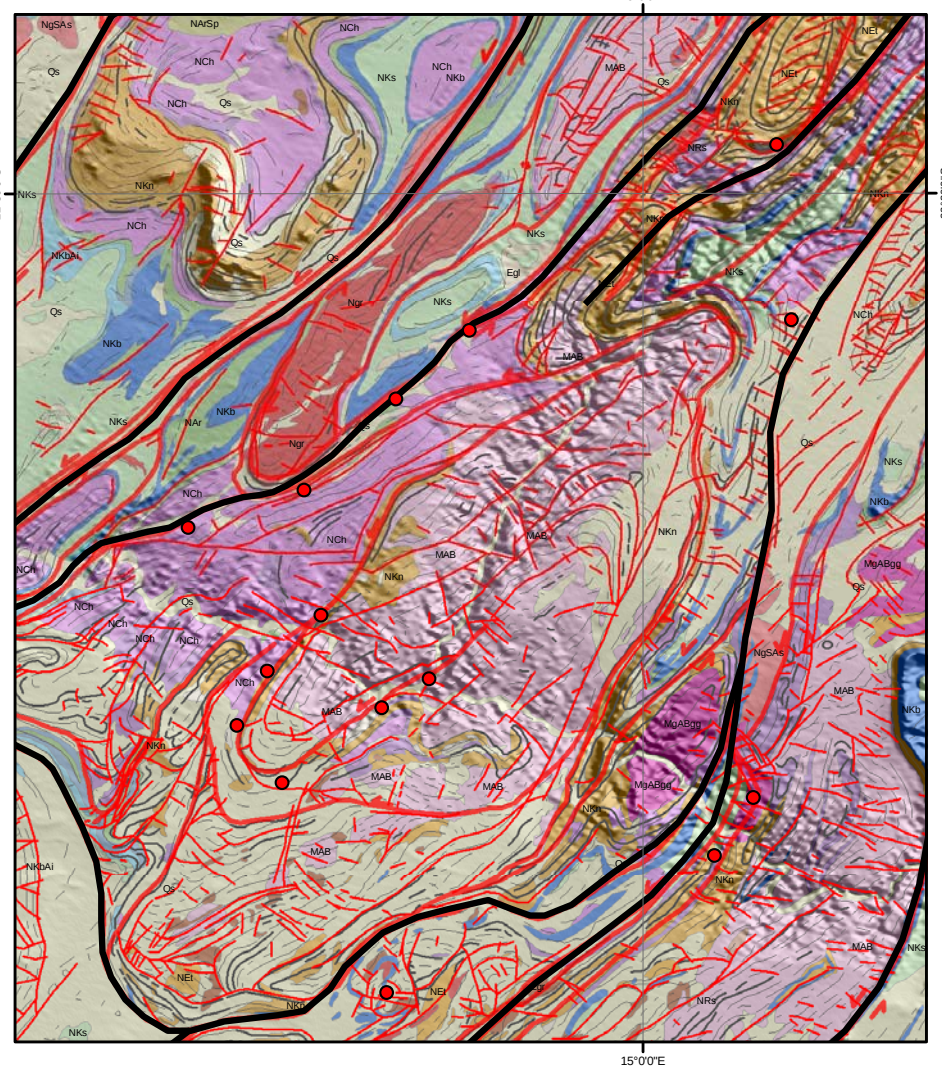

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0 2 4 8 12

Kilometers

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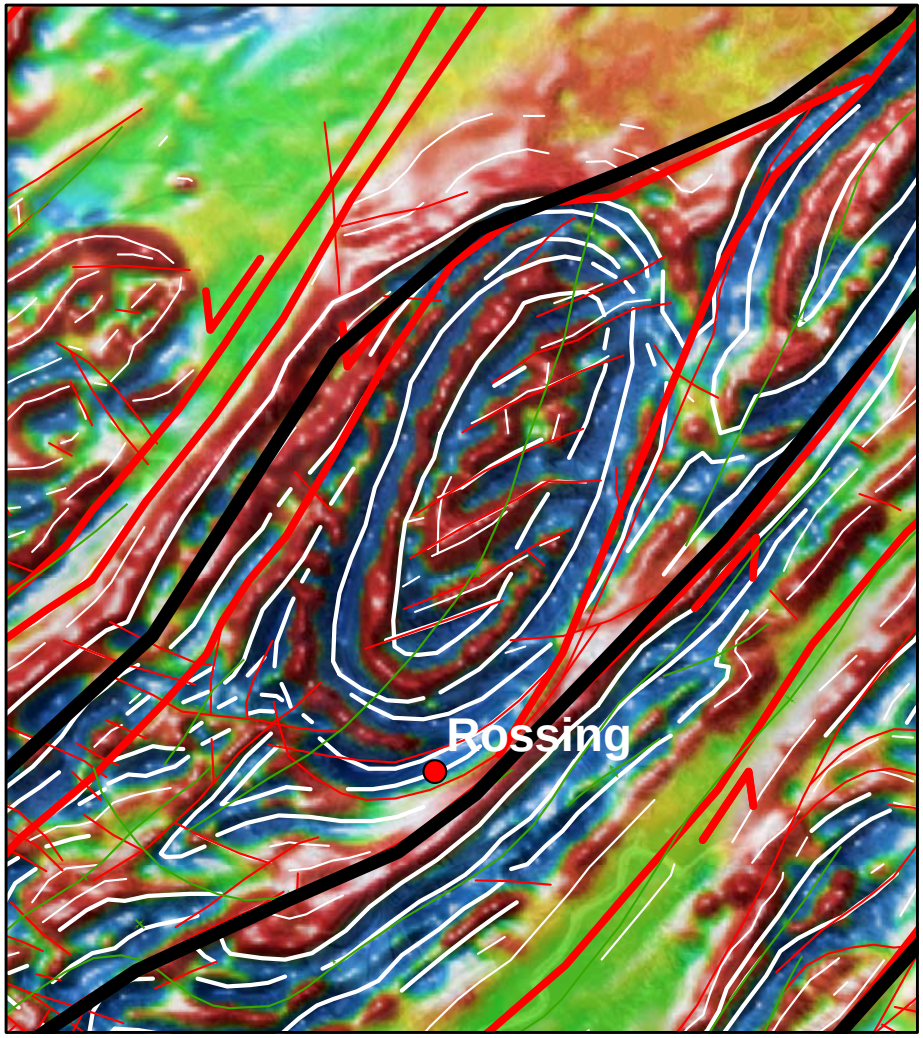

Magnetic First Vertical Derivative RTP

N
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S

Legend

- U Projects
- Fault Zone Regional
- Fault Major Magnetics
- Fault Minor Magnetics
- Syncline
- Anticline
- Magnetic Anomaly Trace
- Magnetic Anomaly Trace remanent

0 0.5 1 2 3
Kilometers

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Rossing Uranium

Data Source: GSN

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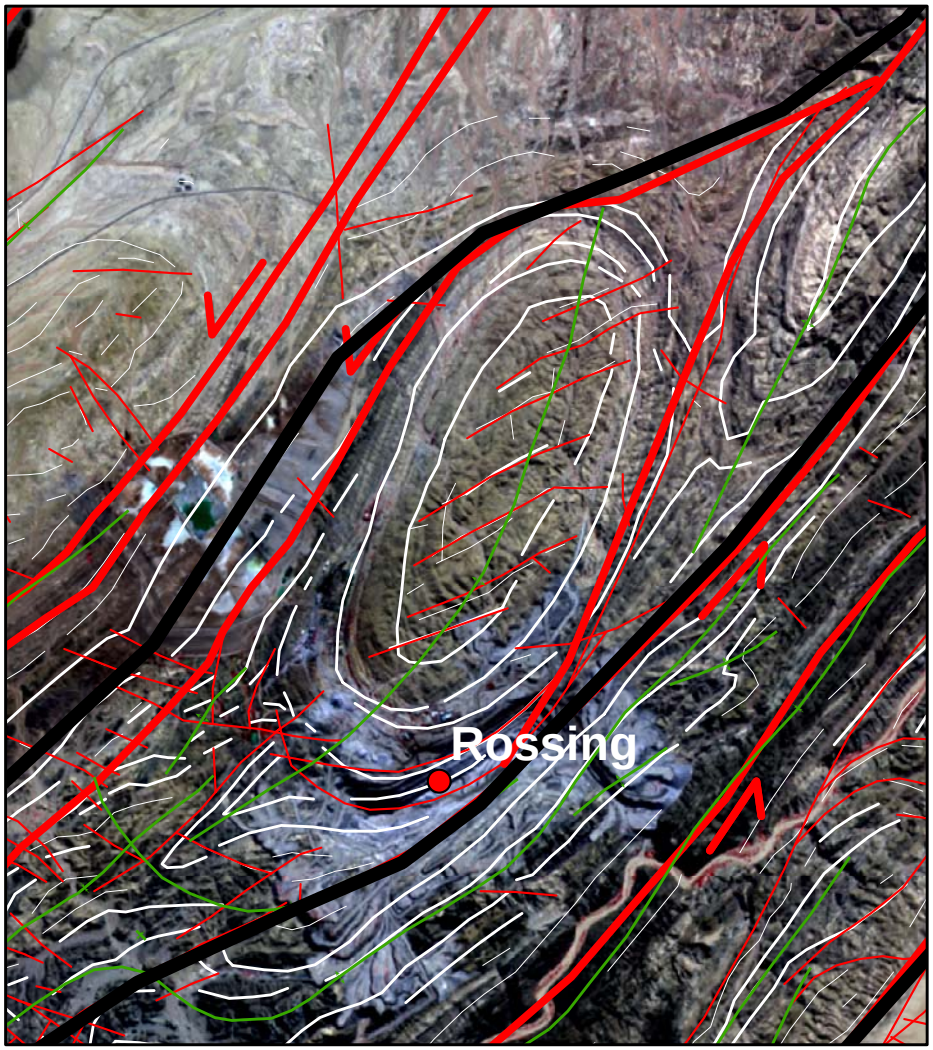

Aster

Legend

- U Projects
- Fault Zone Regional
- Fault Major Magnetics
- Fault Minor Magnetics
- Syncline
- Anticline
- Magnetic Anomaly Trace
- Magnetic Anomaly Trace remanent

0 0.5 1 2 3

Kilometers

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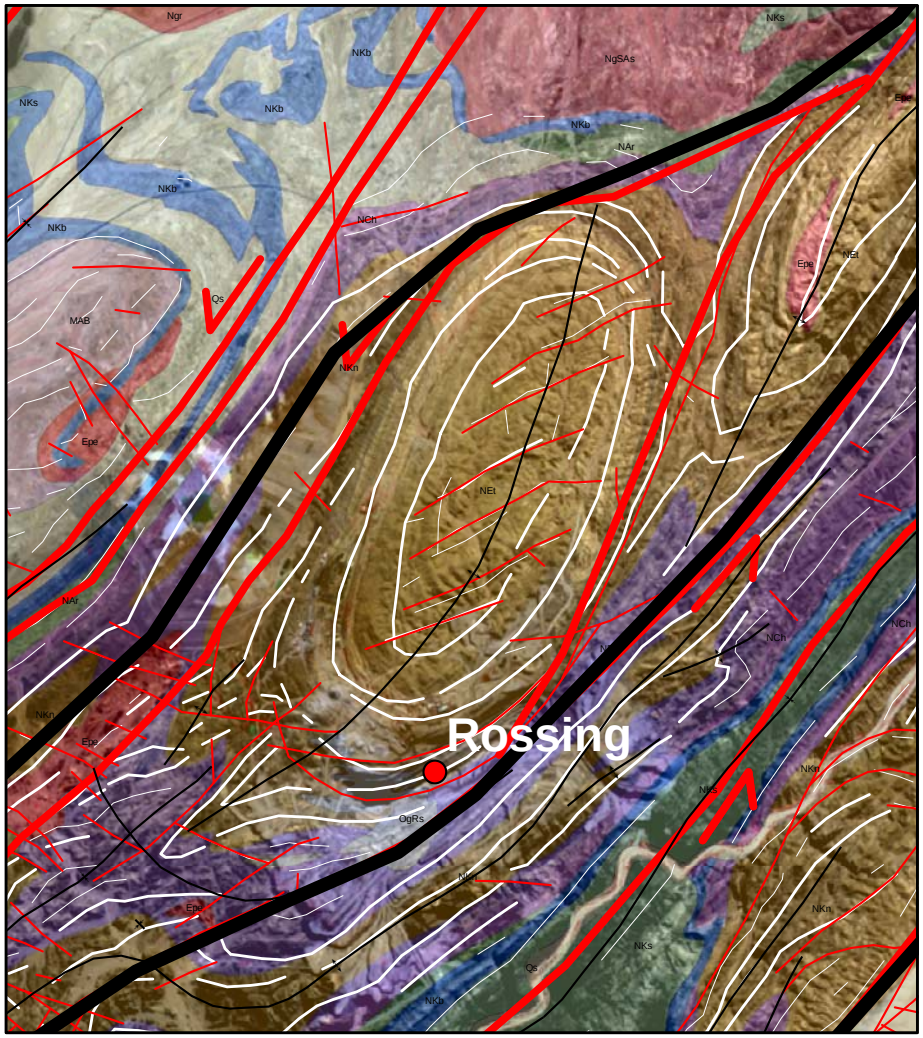

Geology 1: 250 k

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Aster

N
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Legend

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- Fault Minor Magnetics
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Rossing Uranium

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EARTHMAPS CONSULTING

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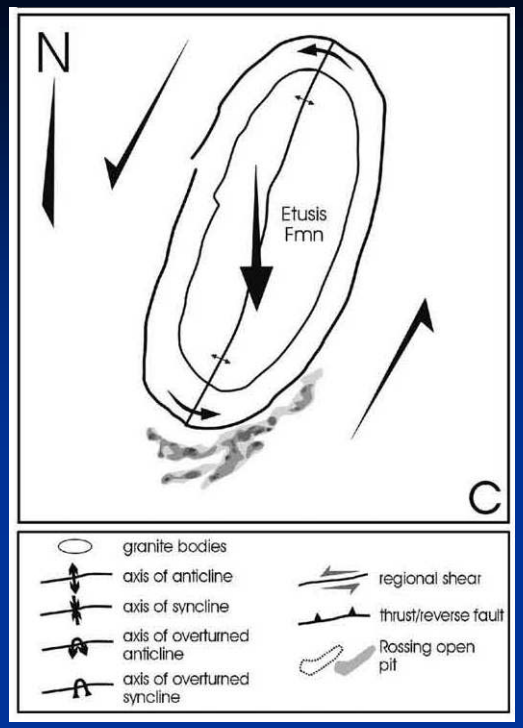

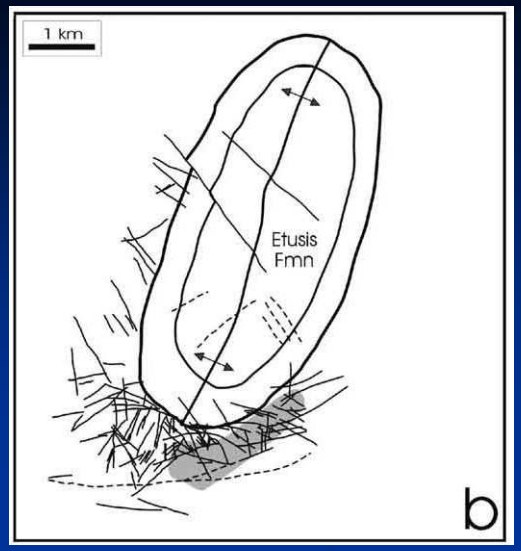

Source: I.J. Basson & G. Greenway (2004)

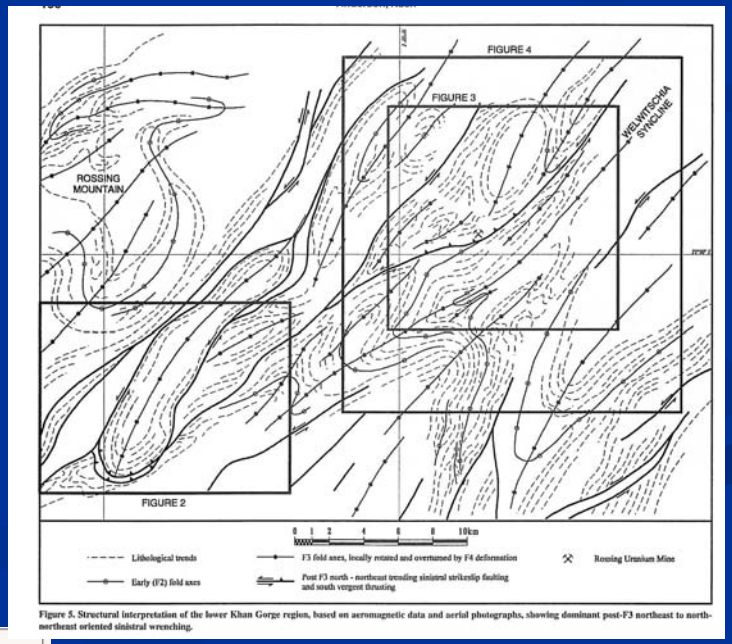

Figure 5. Structural interpretation of the lower Khan Gorge region, based on aeromagnetic data and aerial photographs, showing dominant post-F3 northeast to north-northeast oriented sinistral wrenching.

Source: H. Anderson & C. Nash (1997)

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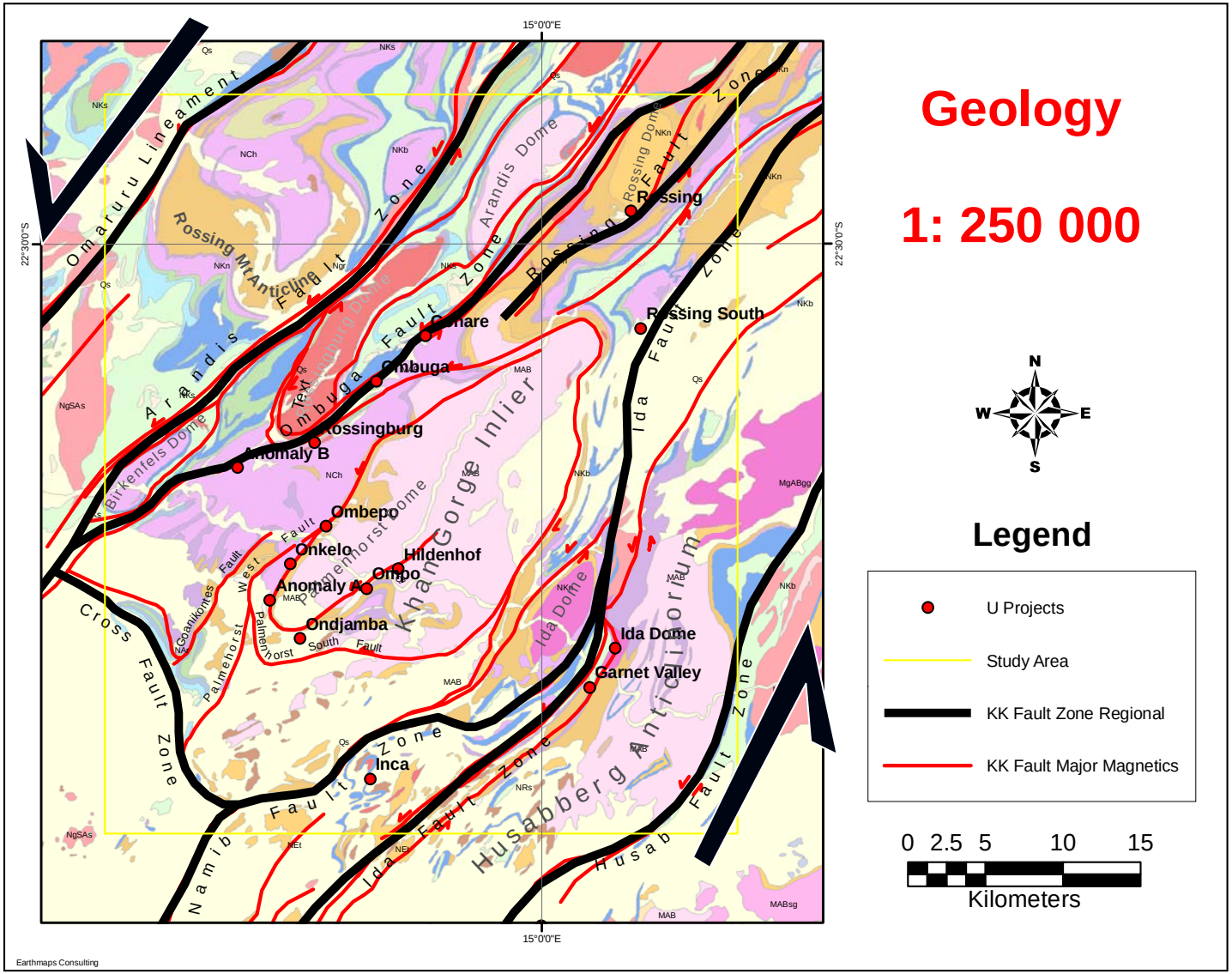

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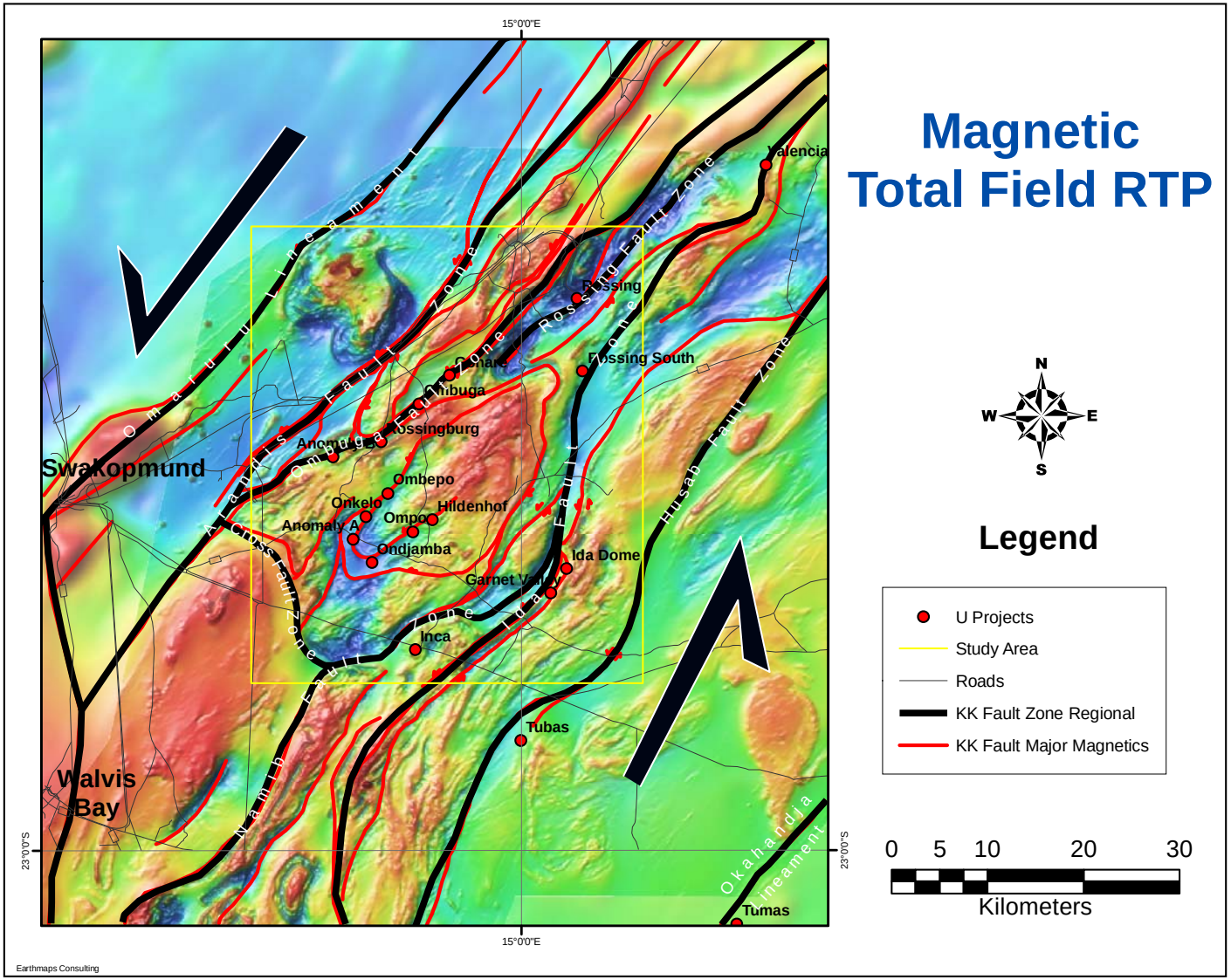
Magnetic Total Field RTP



Data Source: GSN

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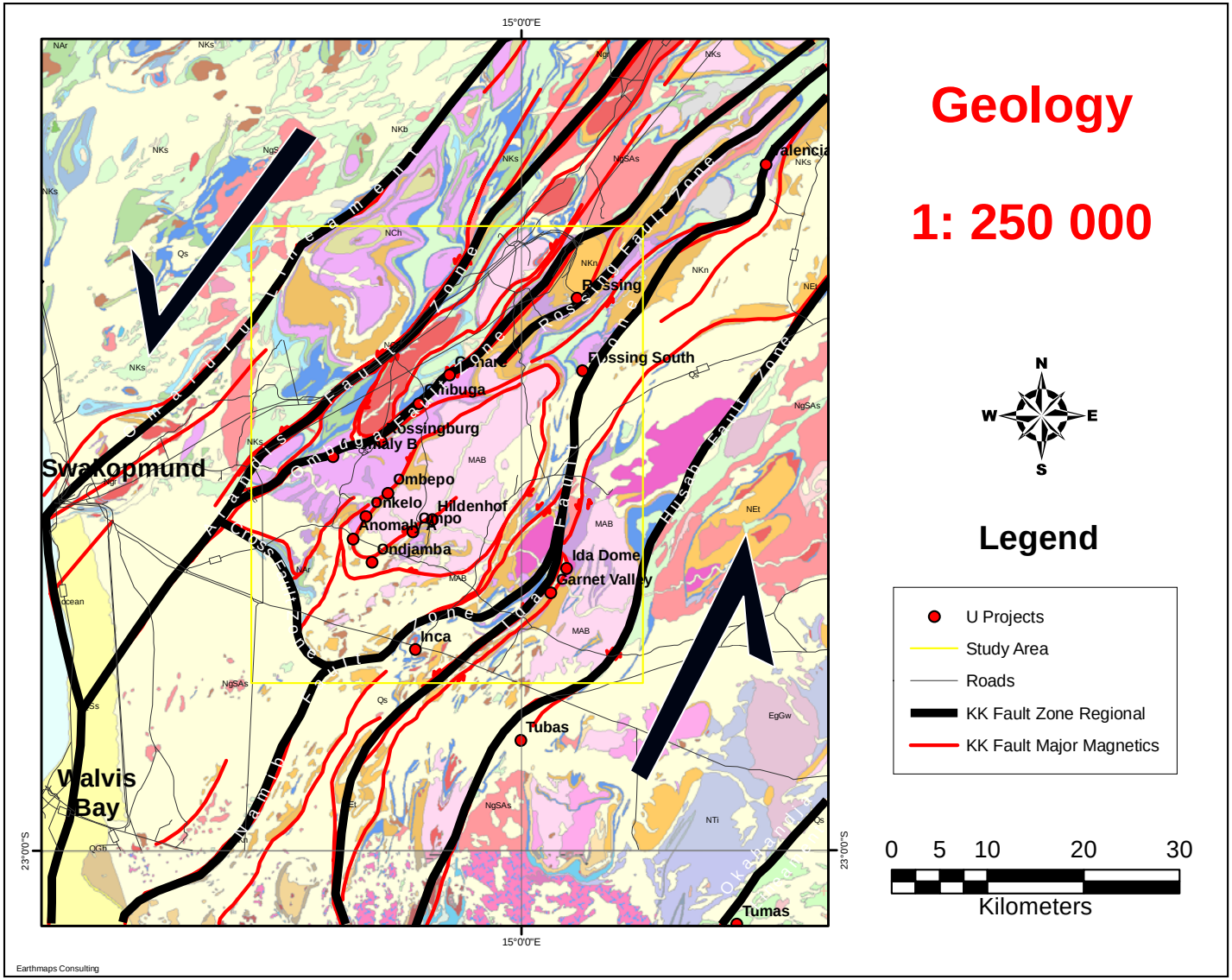

Geology

1: 250 000

N
W E
S

Legend

- U Projects
- Study Area
- Roads
- KK Fault Zone Regional
- KK Fault Major Magnetics

0 5 10 20 30
Kilometers

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How do we explain

- *this deformation ?*

- *the emplacement of late leucogranites?*

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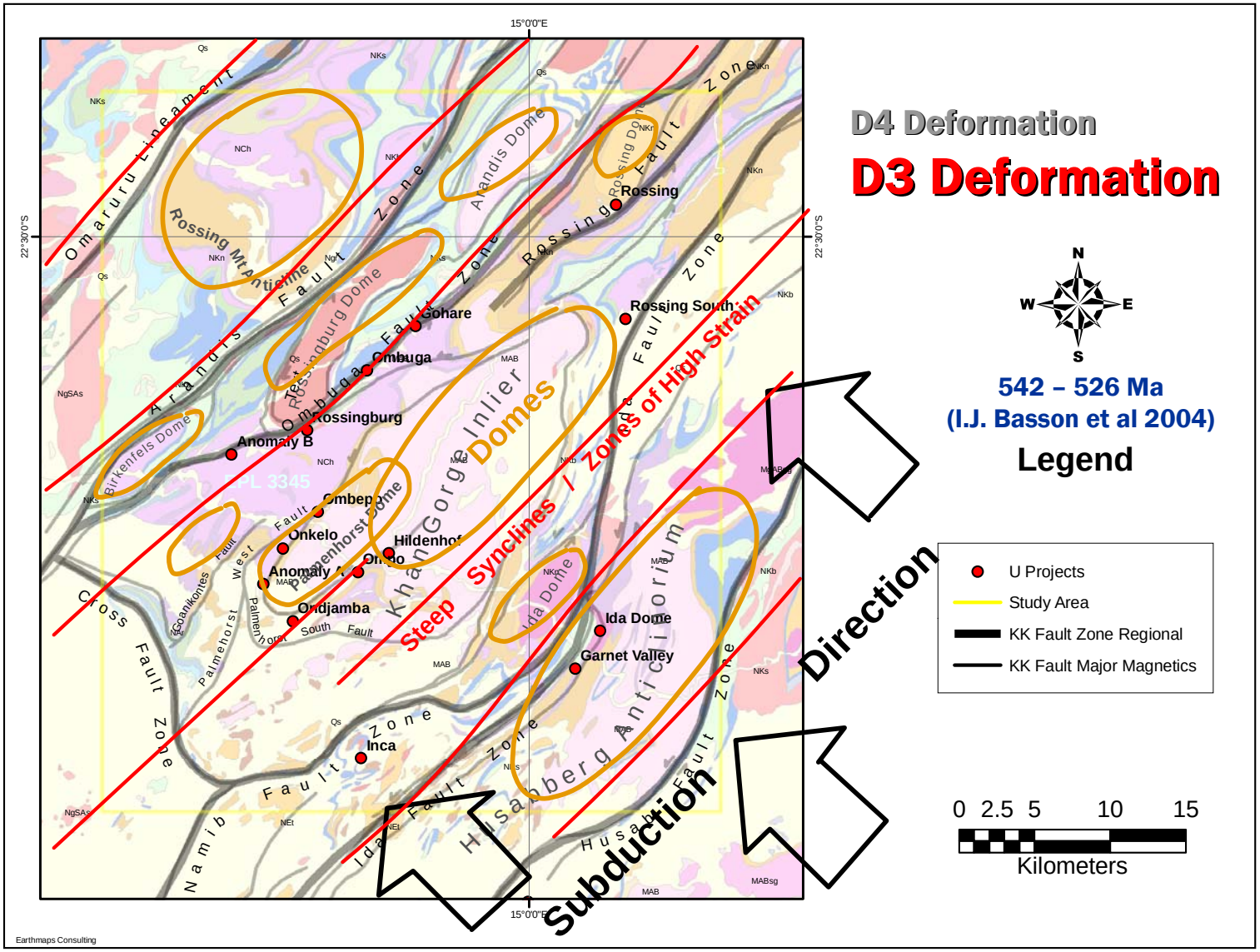

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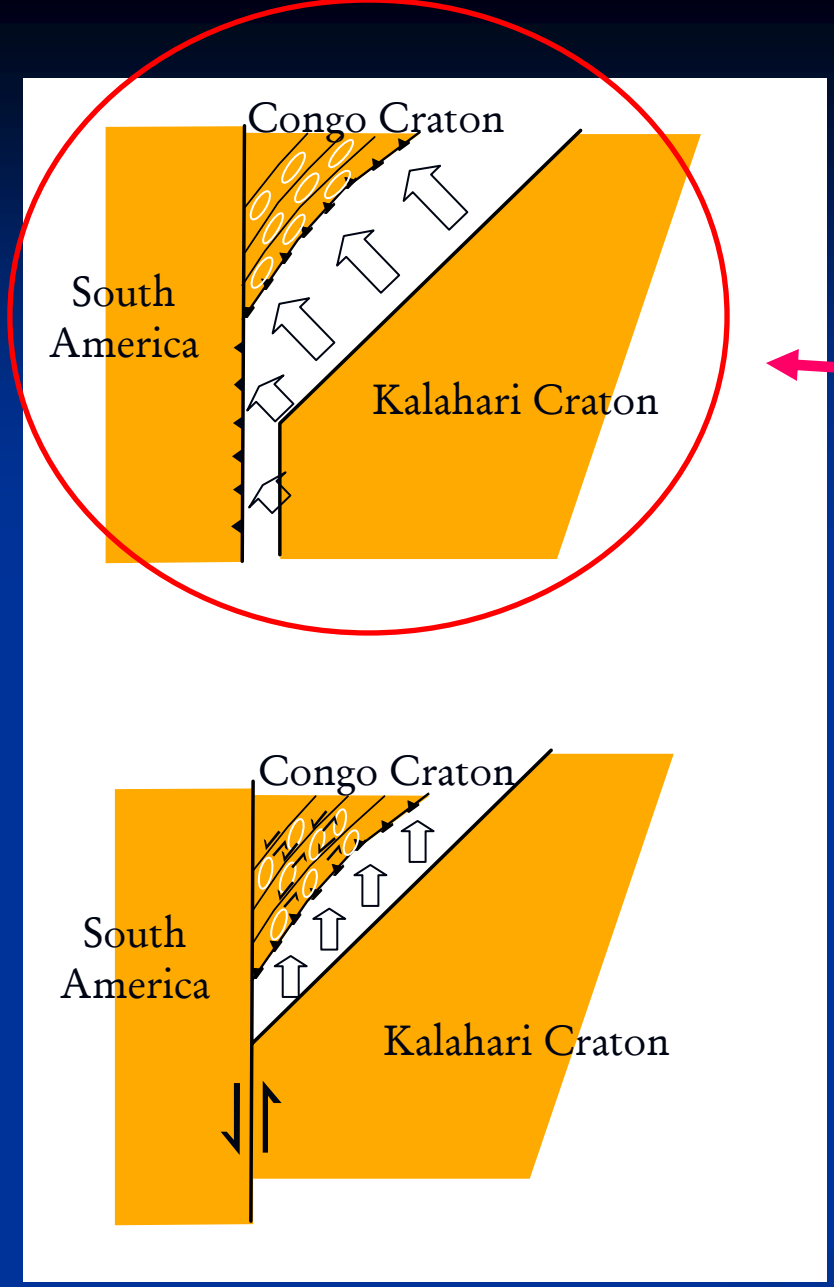
Structural Evolution
(schematic)



D3 Deformation
in sCZ

542 – 526 Ma
(I.J. Basson et al 2004)

D4

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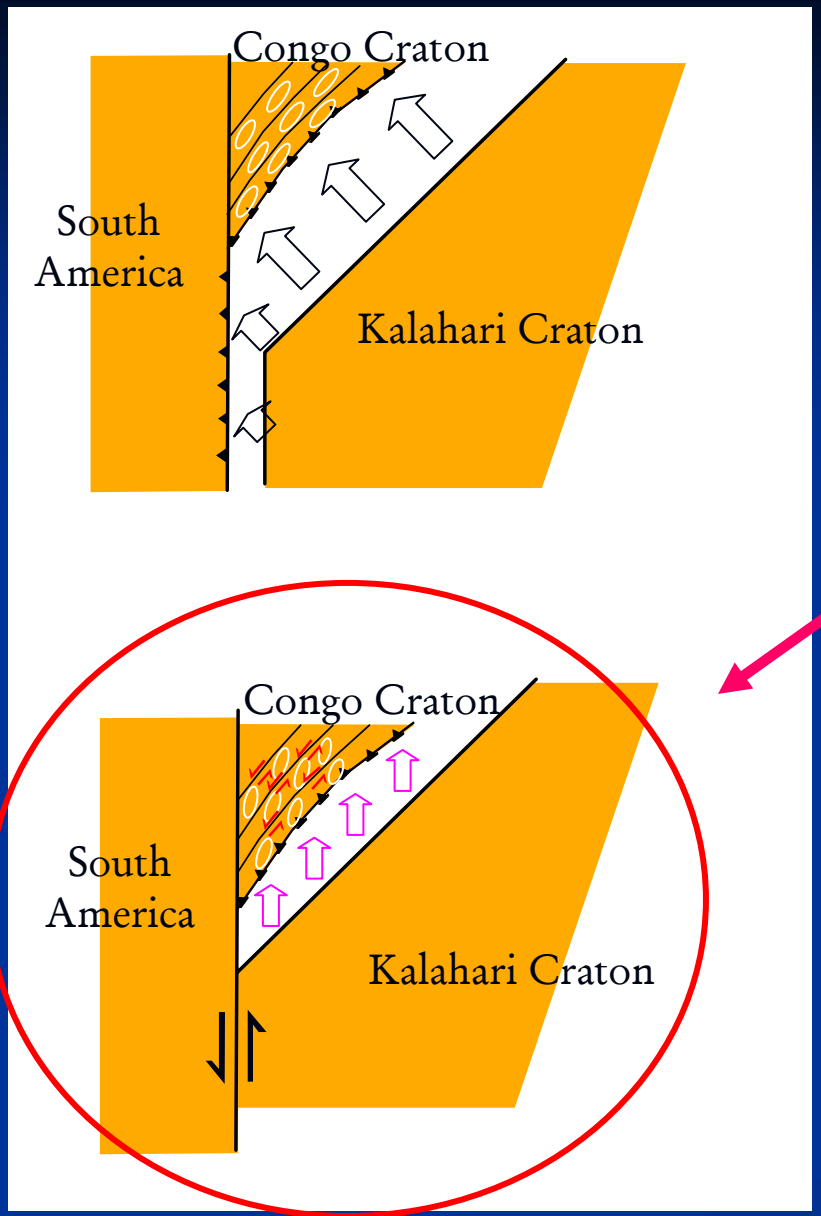
Structural Evolution
(schematic)



D3

D4 Deformation
in sCZ

516 - 505 Ma
(I.J. Basson et al 2004)

495 Ma: Subduction Plate Detachment
(R.McG. Miller 2008)

Uraniferous leucogranite emplacement:
510 – 467 Ma (I.J. Basson et al 2004)
540 – 510 Ma (R.McG. Miller 2008)

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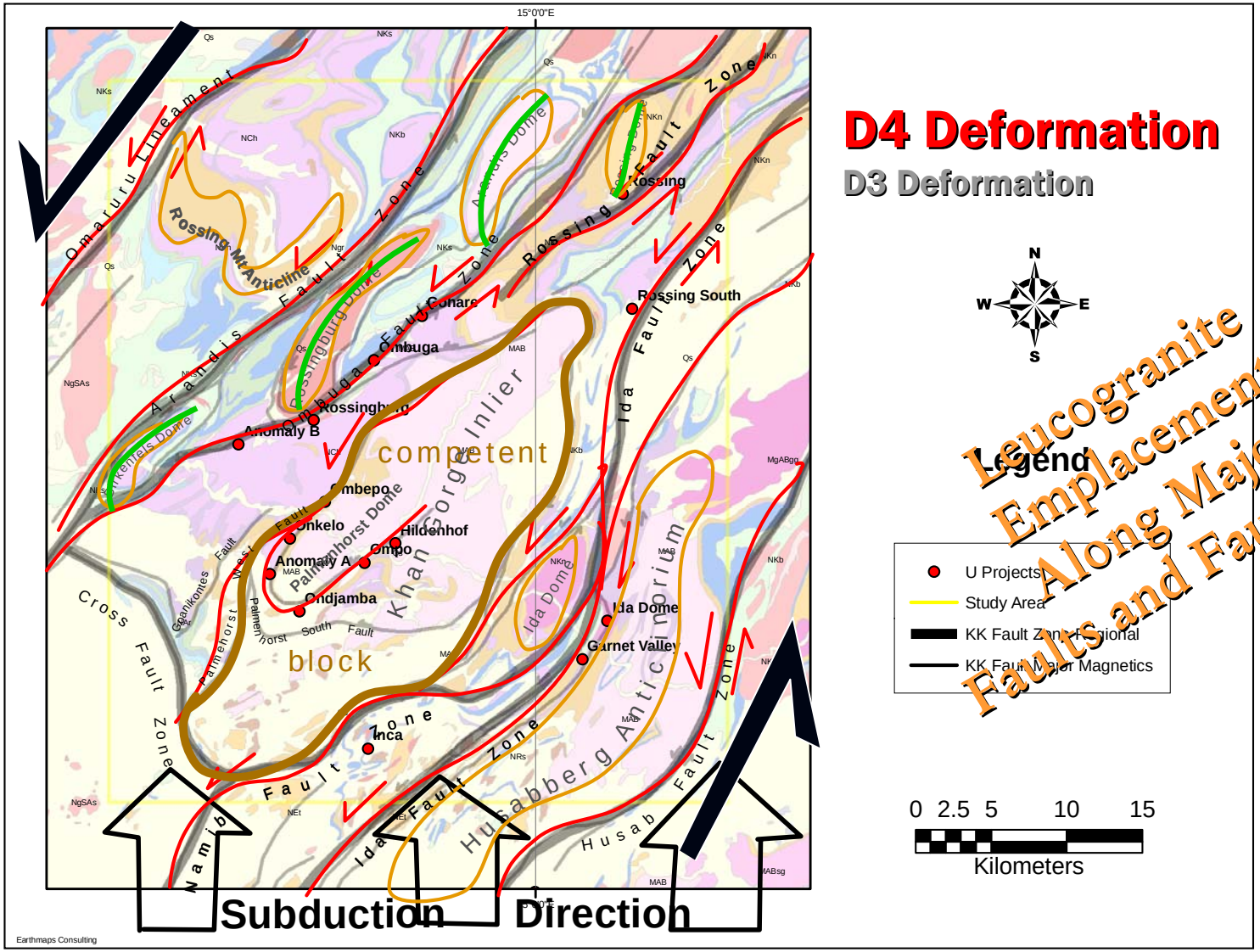

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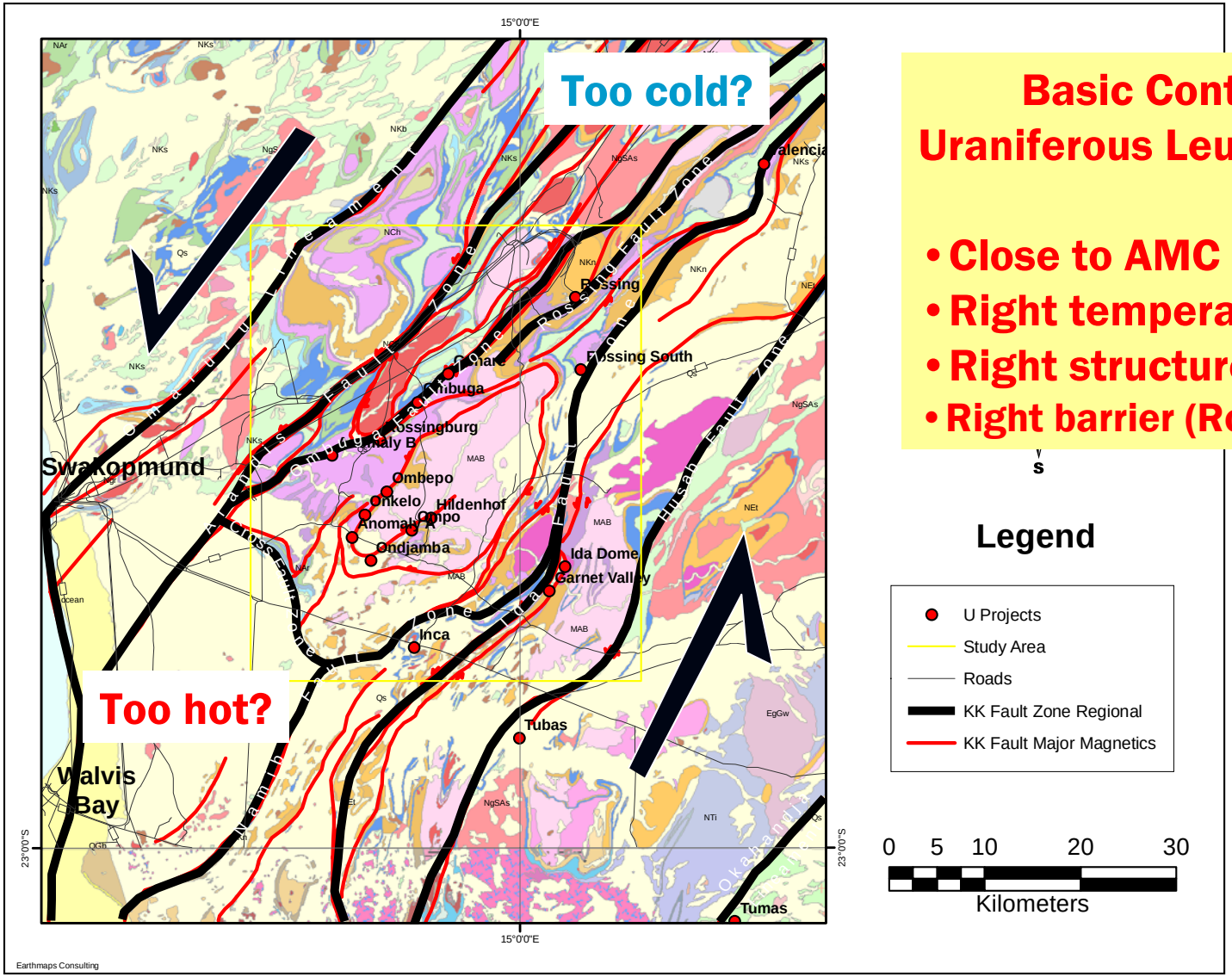

Basic Controls: Uraniferous Leucogranites

- Close to AMC basement
- Right temperature
- Right structures
- Right barrier (Rossing Fm)

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Refinement

Of the

Welwitschia Lineament Zone

(B. Corner 1983)

Spatially coincident:

- **Zone of Magnetically Remanent Nosib Group**

  Established at peak of M2 (570 °C):

  535 Ma

  (R.McG. Miller 2008)

- **NNE-SSW Zone of LL strike slip and Dome Rotation**

  During D4:

  516-505 Ma

  (I.J. Basson et al 2004)

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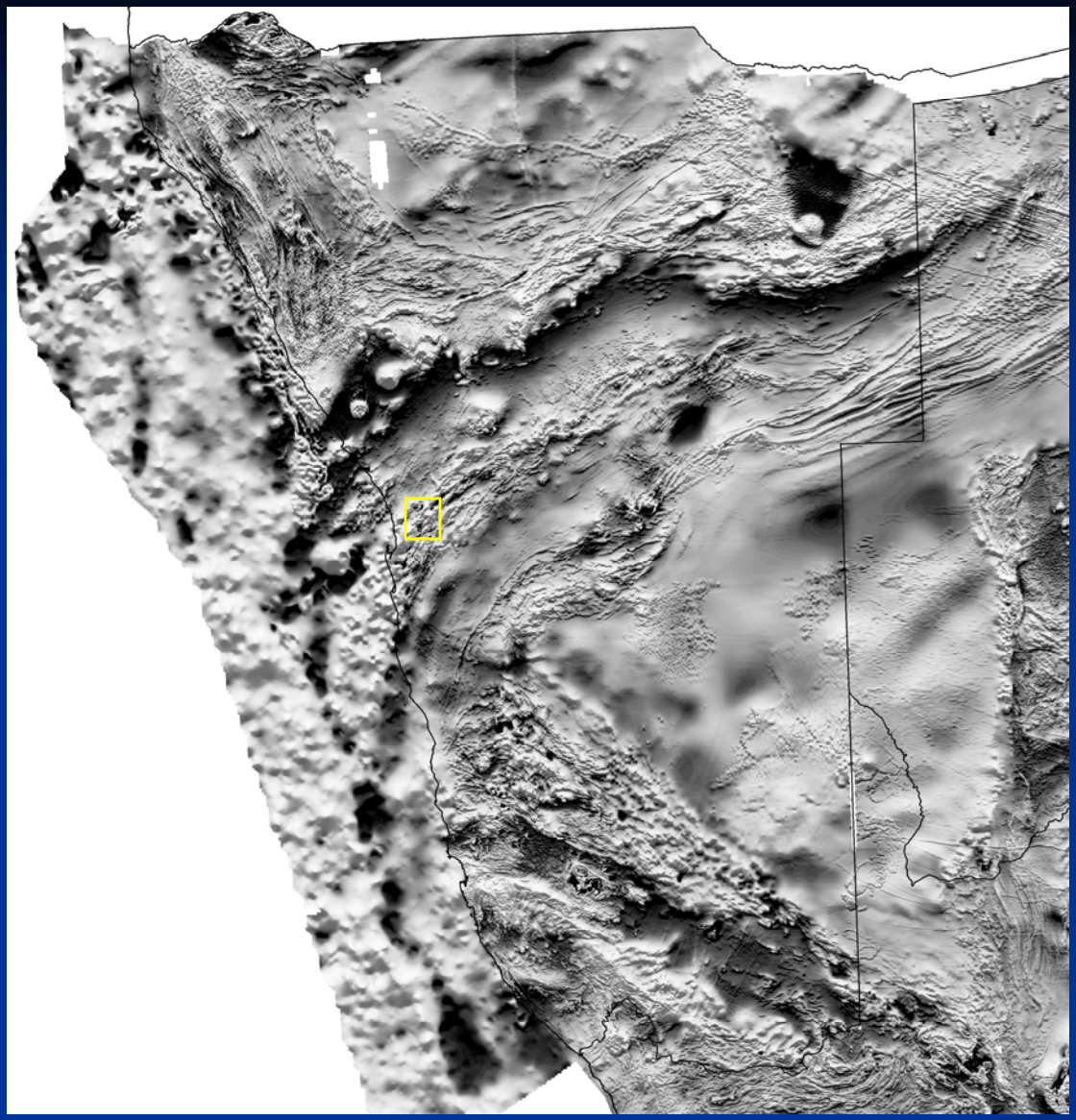

Magnetic Total Field

(B. Corner)

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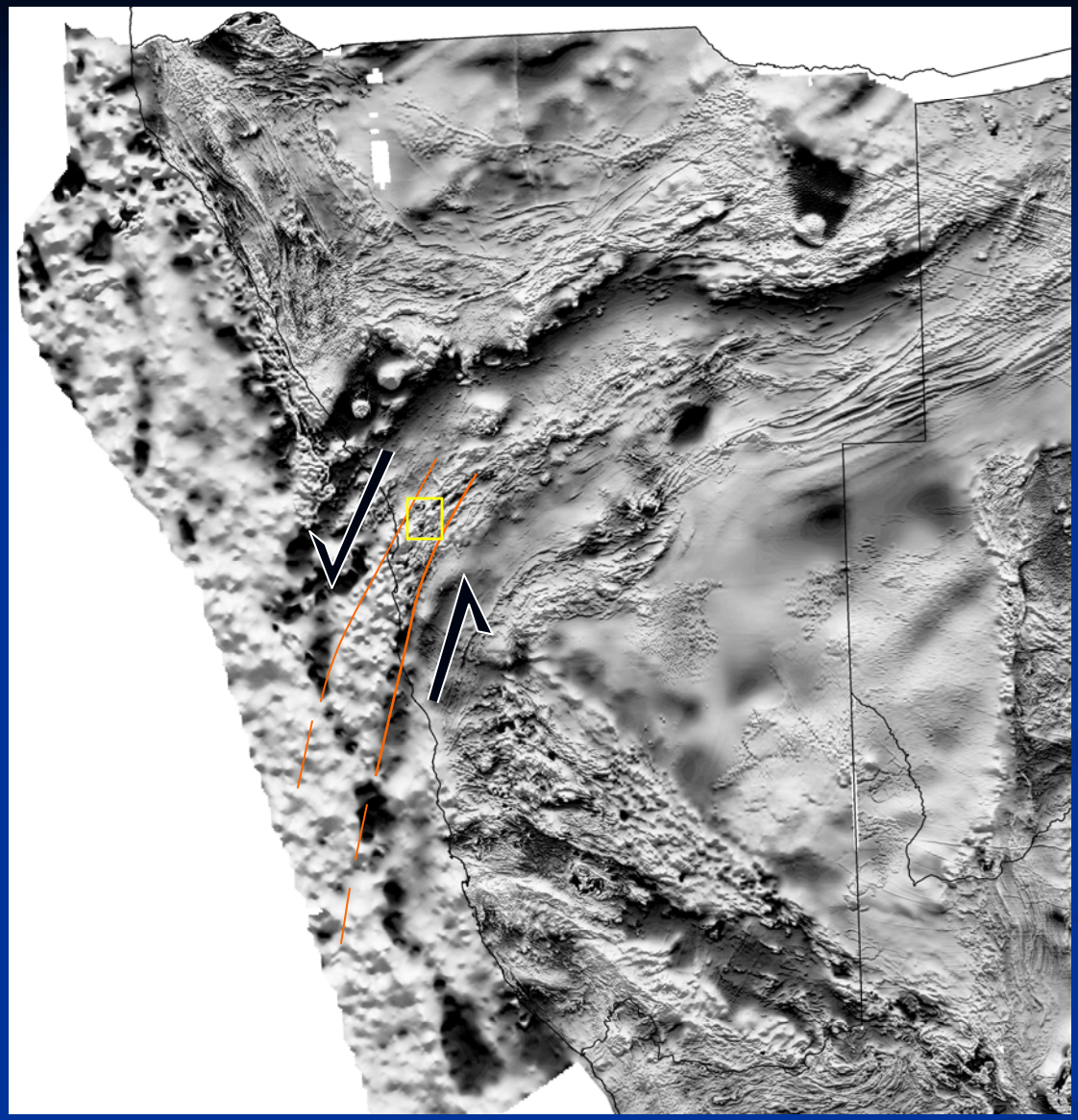

Magnetic Total Field

(B. Corner)

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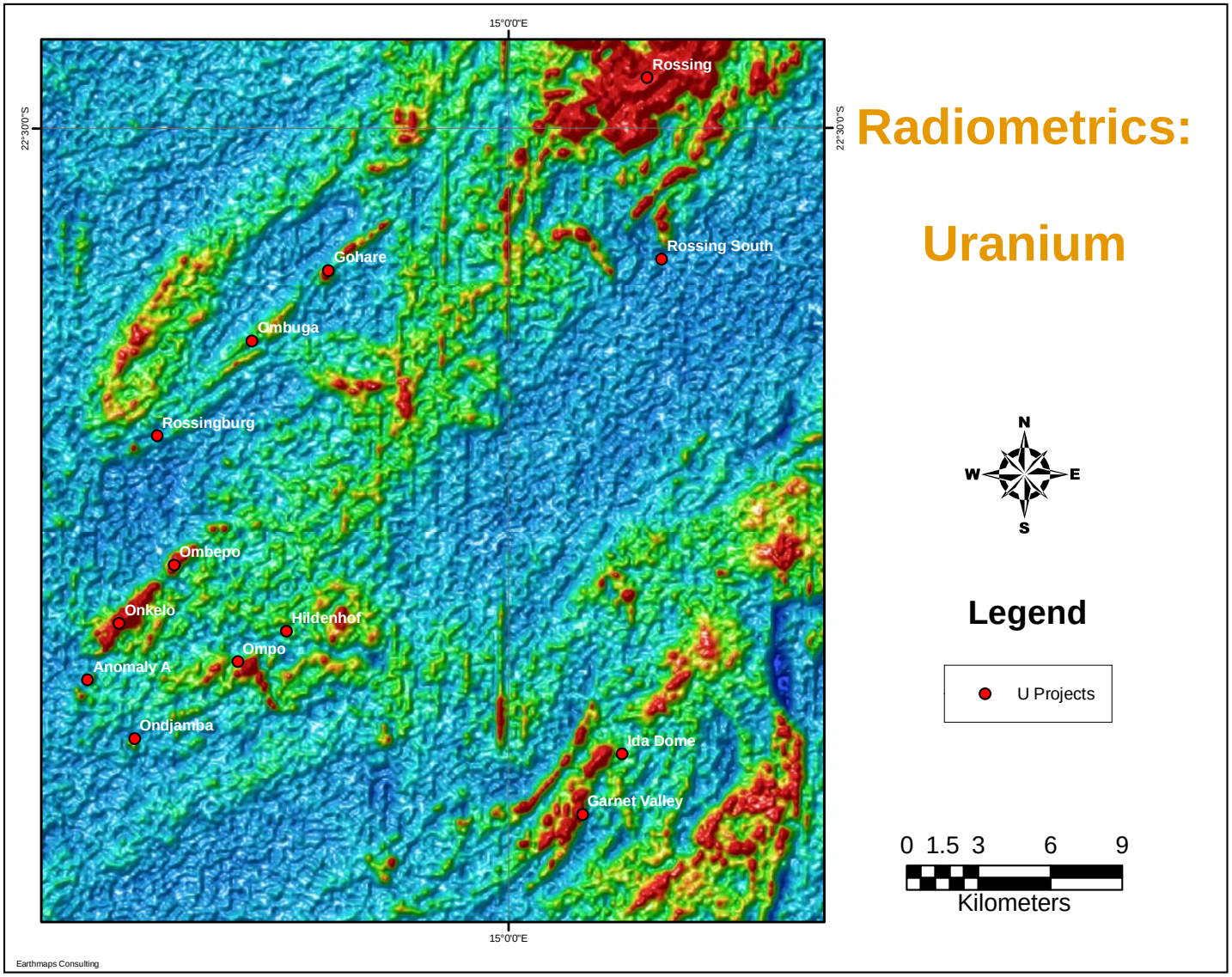

Radiometrics:

Uranium

Data Source: GSN

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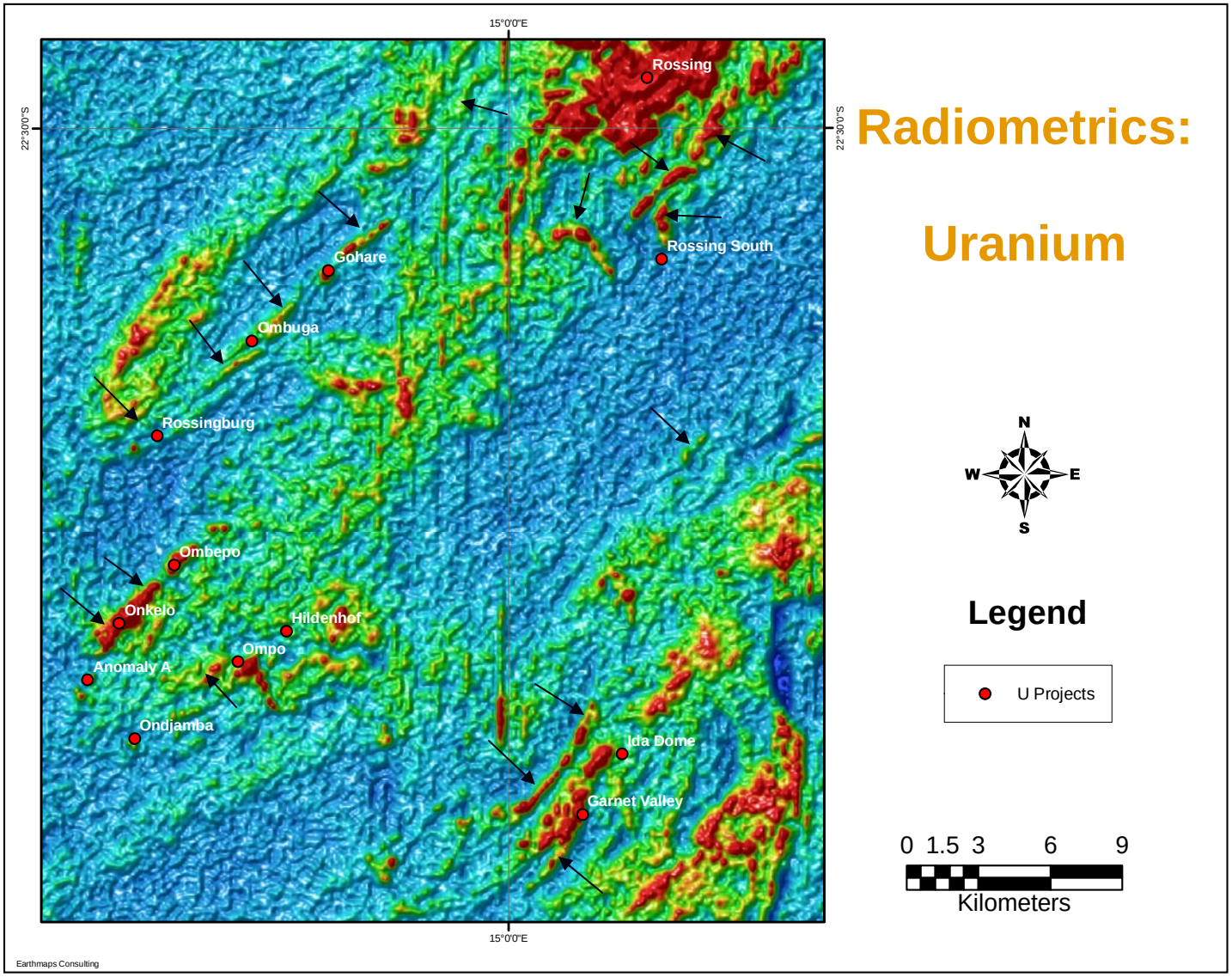

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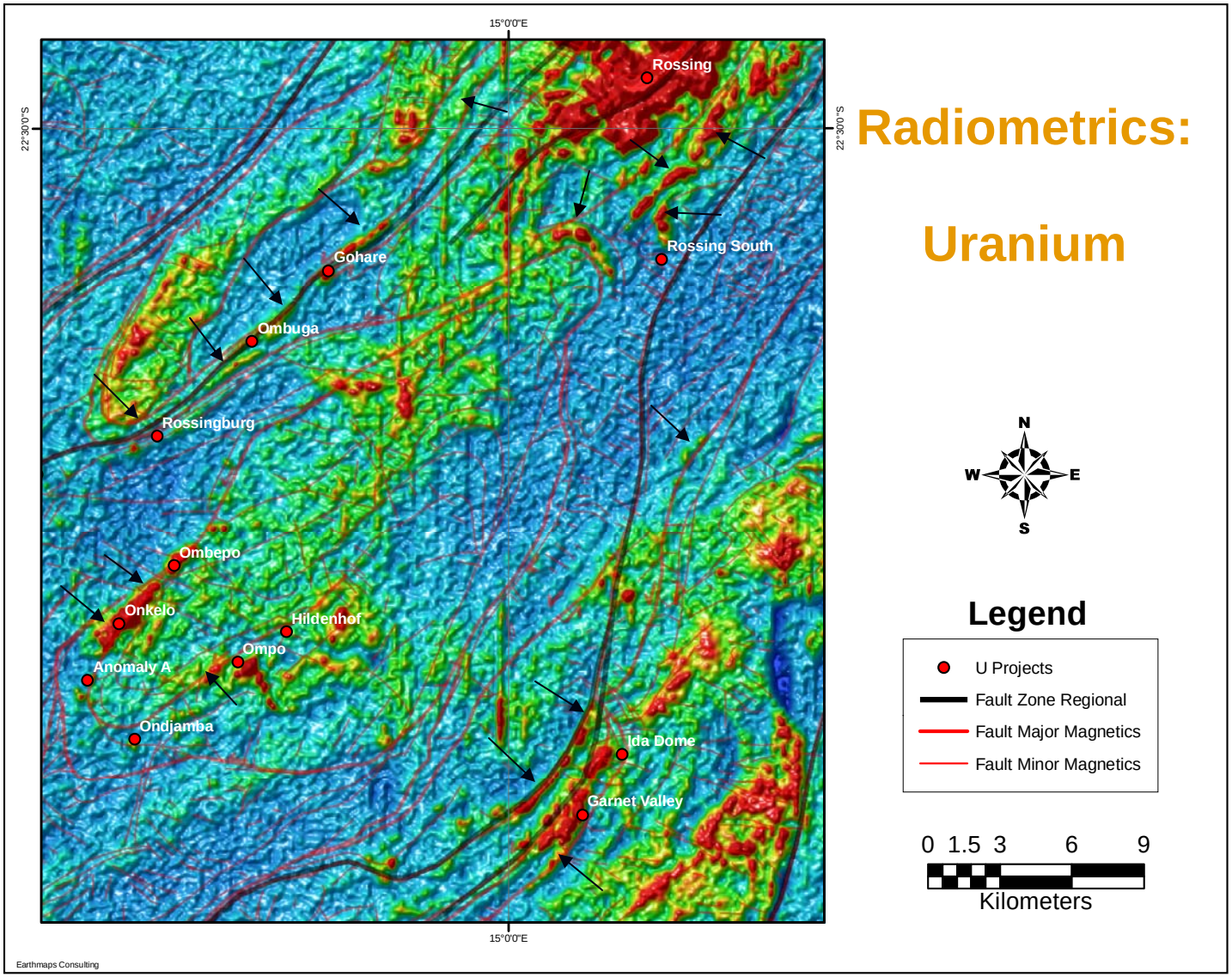

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Lets find more!

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