Article:
Izon, G, Zerkle, AL, Williford, KH et al. (3 more authors) (2017) Biological Regulation of Atmospheric Chemistry En Route to Planetary Oxygenation. Proceedings of the National Academy of Sciences, 114 (13). E2571-E2579. ISSN 1091-6490

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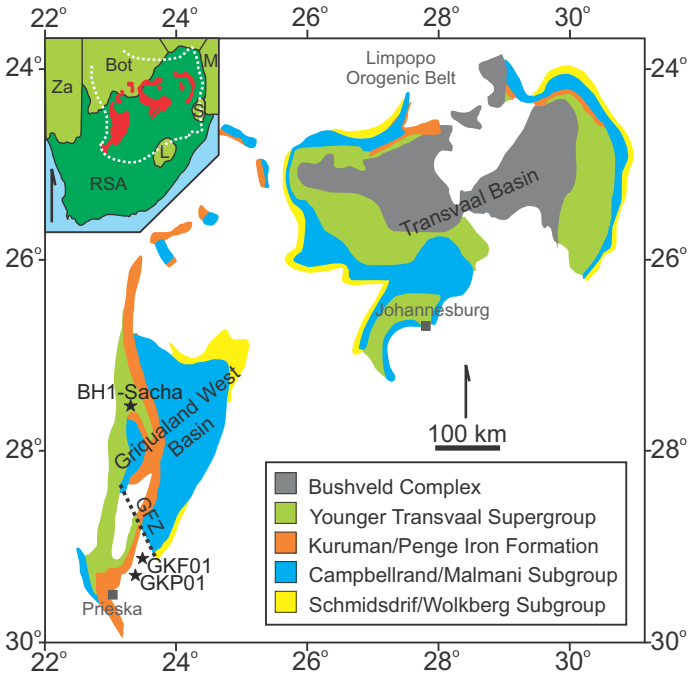
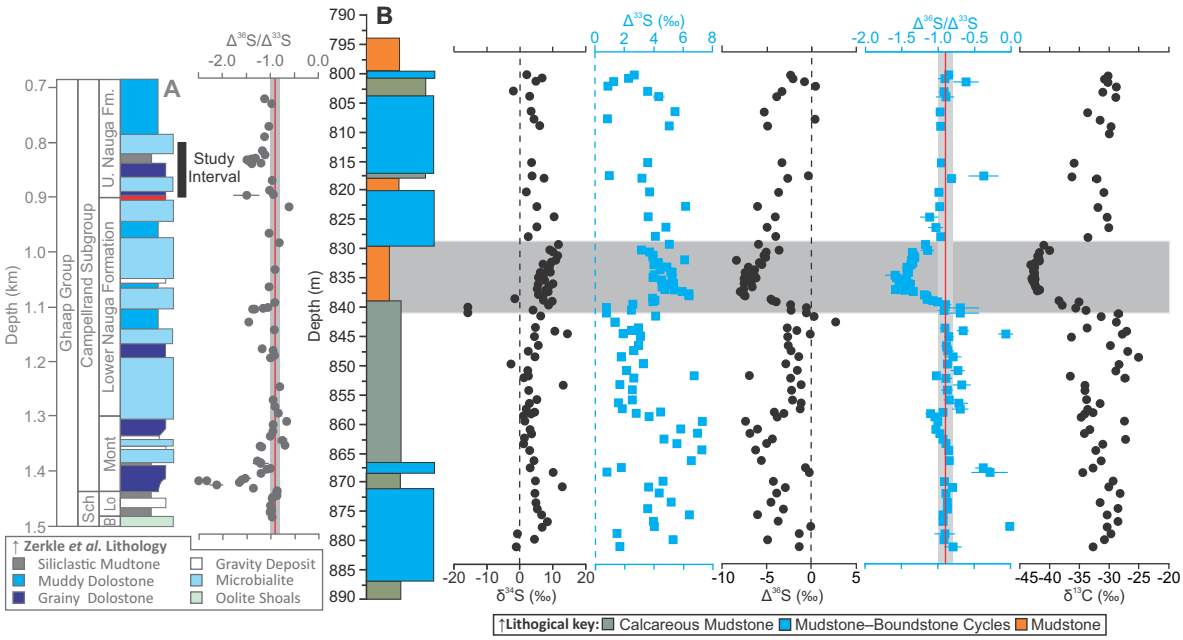
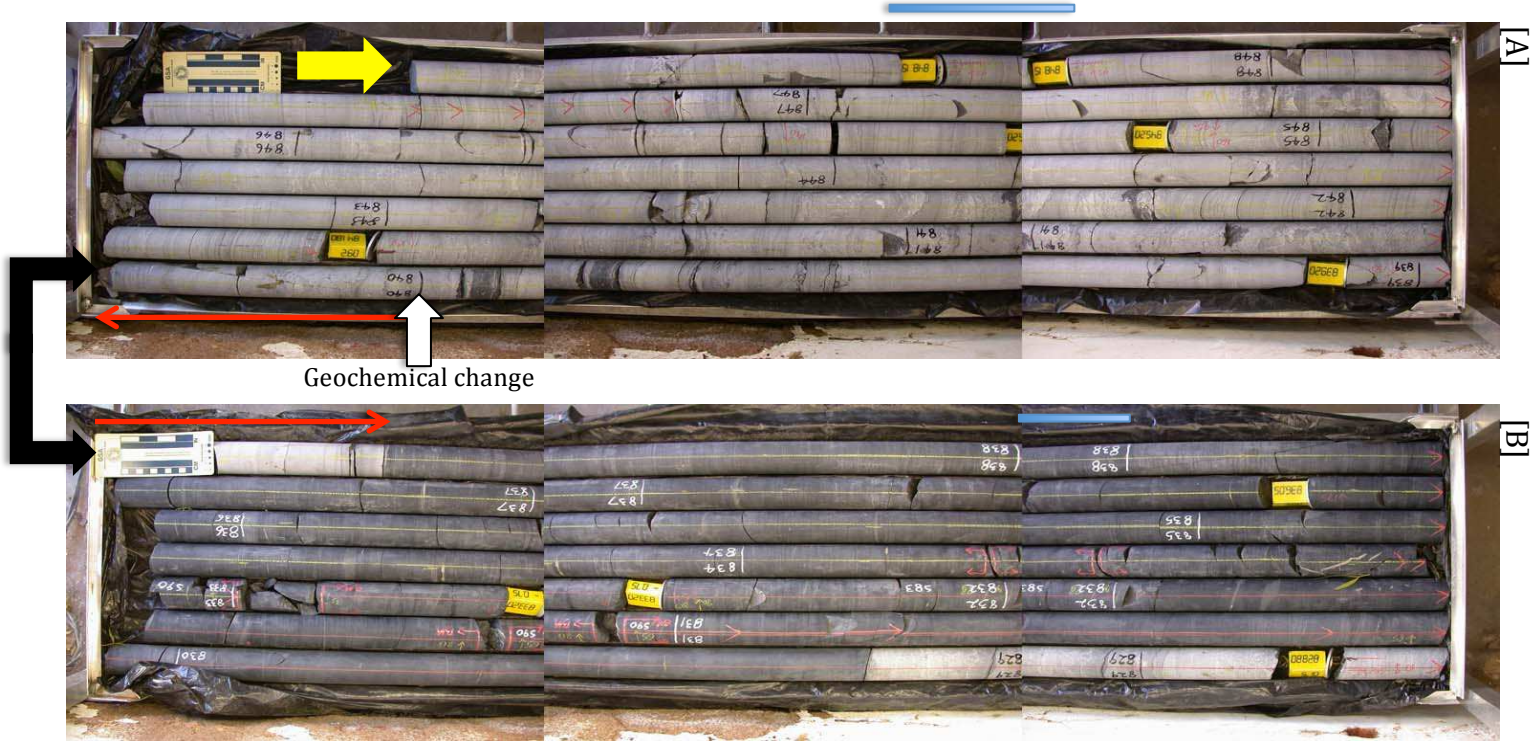
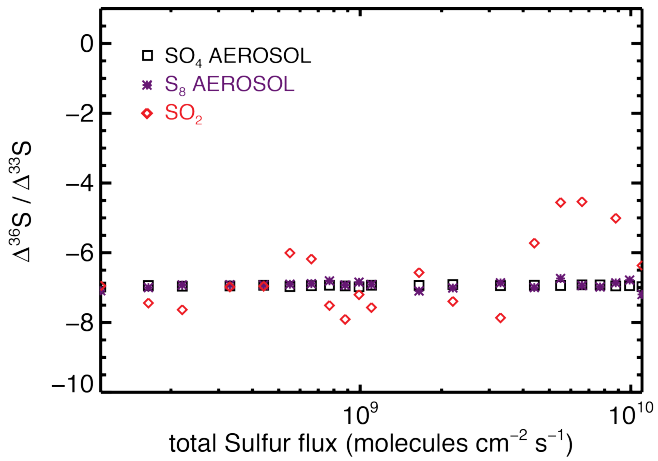

22°
24°
26°
28°
30°
Bot
Za
M
L
RSA
Limpopo
Orogenic Belt
Transvaal Basin
Johannesburg
BH1-Sacha
Griqualand West
Basin
GKF01
GKP01
Prieska
100 km
Bushveld Complex
Younger Transvaal Supergroup
Kuruman/Penge Iron Formation
Campbellrand/Malmani Subgroup
Schmidsdrif/Wolkberg Subgroup


A
B
Depth (km)
Depth (m)
Ghaap Group
Campbellrand Subgroup
U. Nauga Fm.
Lower Nauga Formation
Mont
Sch
Lo
Study Interval
Δ36S/Δ33S
Δ33S (‰)
δ34S (‰)
Δ36S (‰)
δ13C (‰)
↑ Zerkle et al. Lithology
Siliclastic Mudtone
Muddy Dolostone
Grainy Dolostone
Gravity Deposit
Microbialite
Oolite Shoals
↑Lithogical key: Calcareous Mudstone Mudstone–Boundstone Cycles Mudstone


[A]
Geochemical change
[B]


0
−2
−4
−6
−8
−10
$\Delta^{36}S / \Delta^{33}S$
10^9
10^{10}
total Sulfur flux (molecules cm^{-2} s^{-1})
SO_4 AEROSOL
S_8 AEROSOL
SO_2