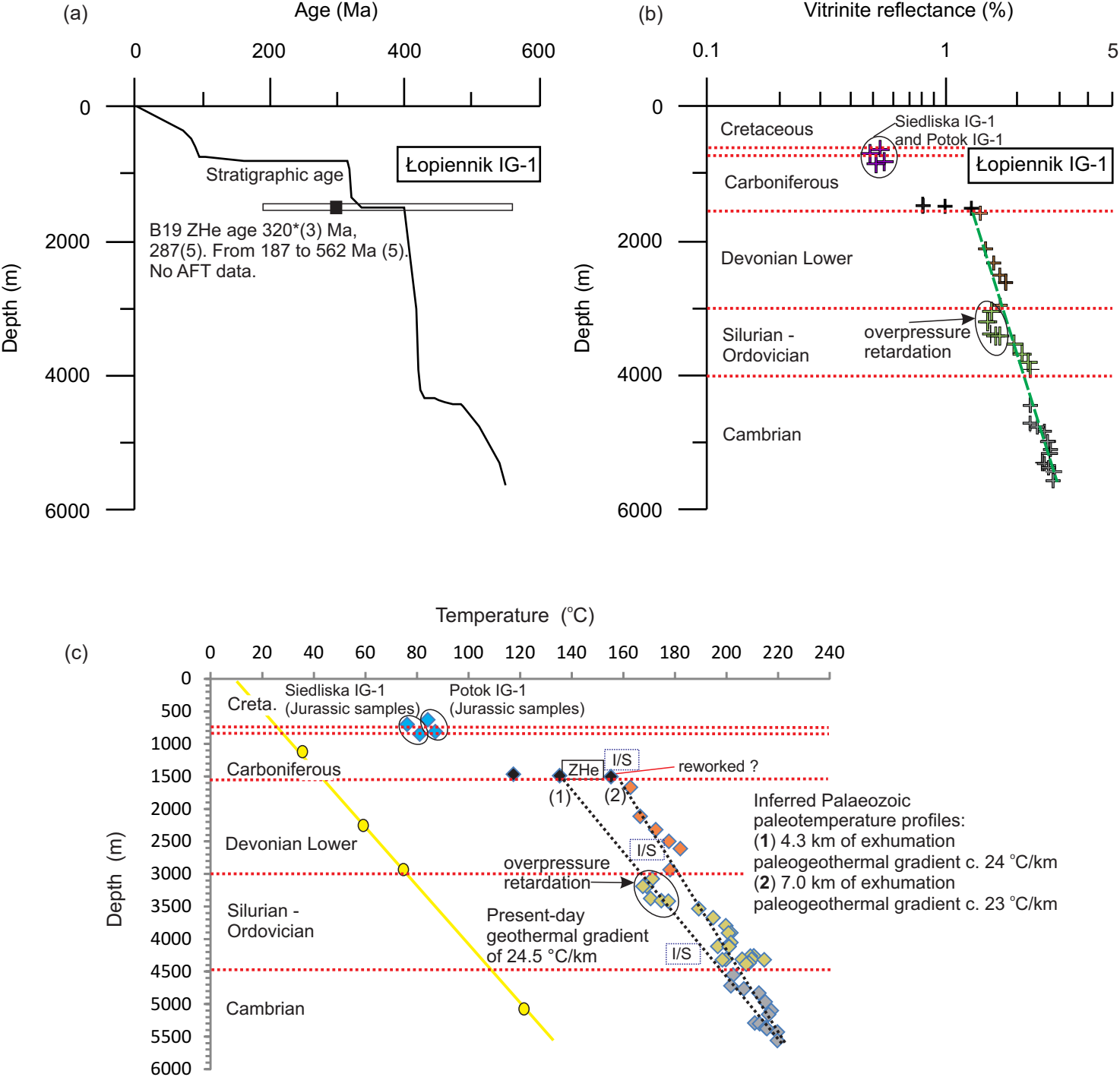
(a)
Age (Ma)
0
200
400
600
Depth (m)
0
2000
4000
6000
Łopiennik IG-1
Stratigraphic age
B19 ZHe age 320*(3) Ma,
287(5). From 187 to 562 Ma (5).
No AFT data.
(b)
Vitrinite reflectance (%)
0.1
1
5
Depth (m)
0
2000
4000
6000
Cretaceous
Carboniferous
Devonian Lower
Silurian -
Ordovician
Cambrian
Siedliska IG-1
and Potok IG-1
Łopiennik IG-1
overpressure
retardation
(c)
Temperature (°C)
0
20
40
60
80
100
120
140
160
180
200
220
240
Depth (m)
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
Creta.
Carboniferous
Devonian Lower
Silurian -
Ordovician
Cambrian
Siedliska IG-1
(Jurassic samples)
Potok IG-1
(Jurassic samples)
ZHe
I/S
reworked ?
(1)
(2)
overpressure
retardation
Present-day
geothermal gradient
of 24.5 °C/km
Inferred Palaeozoic
paleotemperature profiles:
(1) 4.3 km of exhumation
paleogeothermal gradient c. 24 °C/km
(2) 7.0 km of exhumation
paleogeothermal gradient c. 23 °C/km