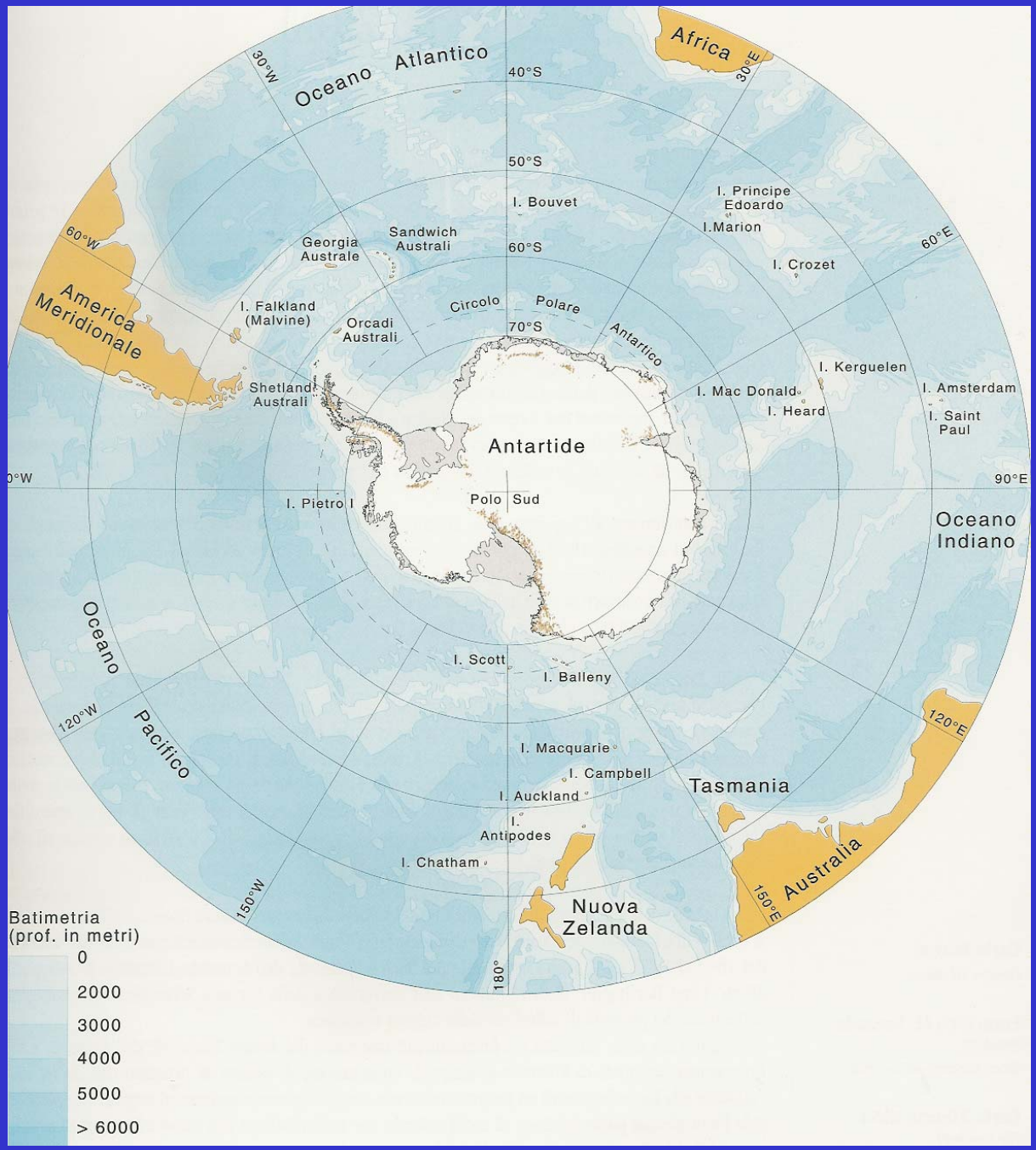
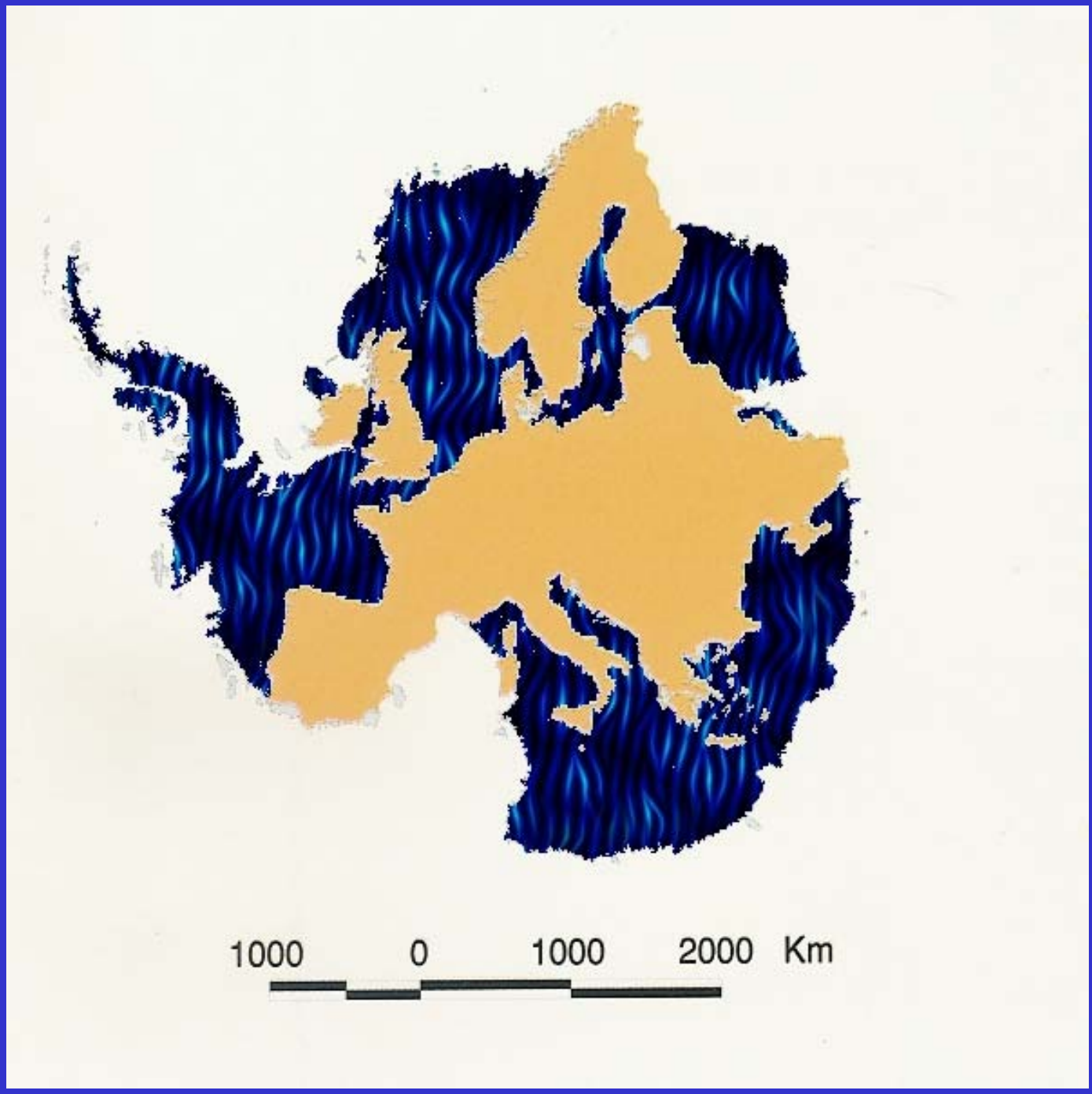
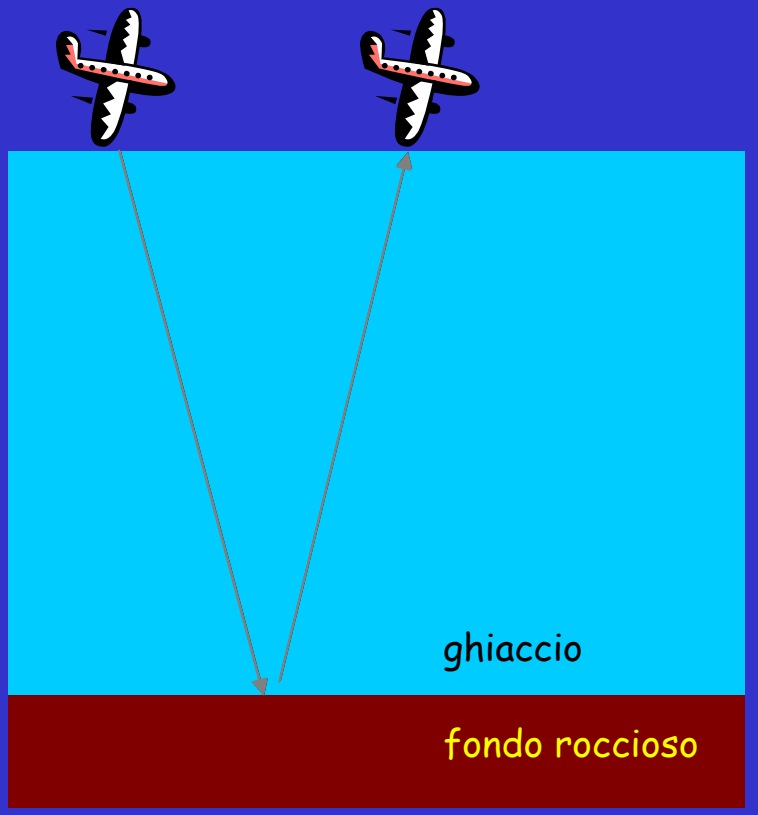

Oceano Atlantico
Africa
30°W
30°E
40°S
50°S
60°S
70°S
I. Bouvet
I. Principe Edoardo
I.Marion
I. Crozet
60°E
60°W
America Meridionale
Georgia Australe
Sandwich Australi
I. Falkland (Malvine)
Orcadi Australi
Circolo Polare Antartico
Shetland Australi
I. Kerguelen
I. Mac Donald
I. Heard
I. Amsterdam
I. Saint Paul
Antartide
0°W
90°E
I. Pietro I
Polo Sud
Oceano Indiano
Oceano Pacifico
I. Scott
I. Balleny
120°W
120°E
I. Macquarie
I. Campbell
I. Auckland
Tasmania
I. Antipodes
I. Chatham
Australia
150°W
150°E
Nuova Zelanda
180°
Batimetria (prof. in metri)
0
2000
3000
4000
5000
> 6000


1000
0
1000
2000
Km

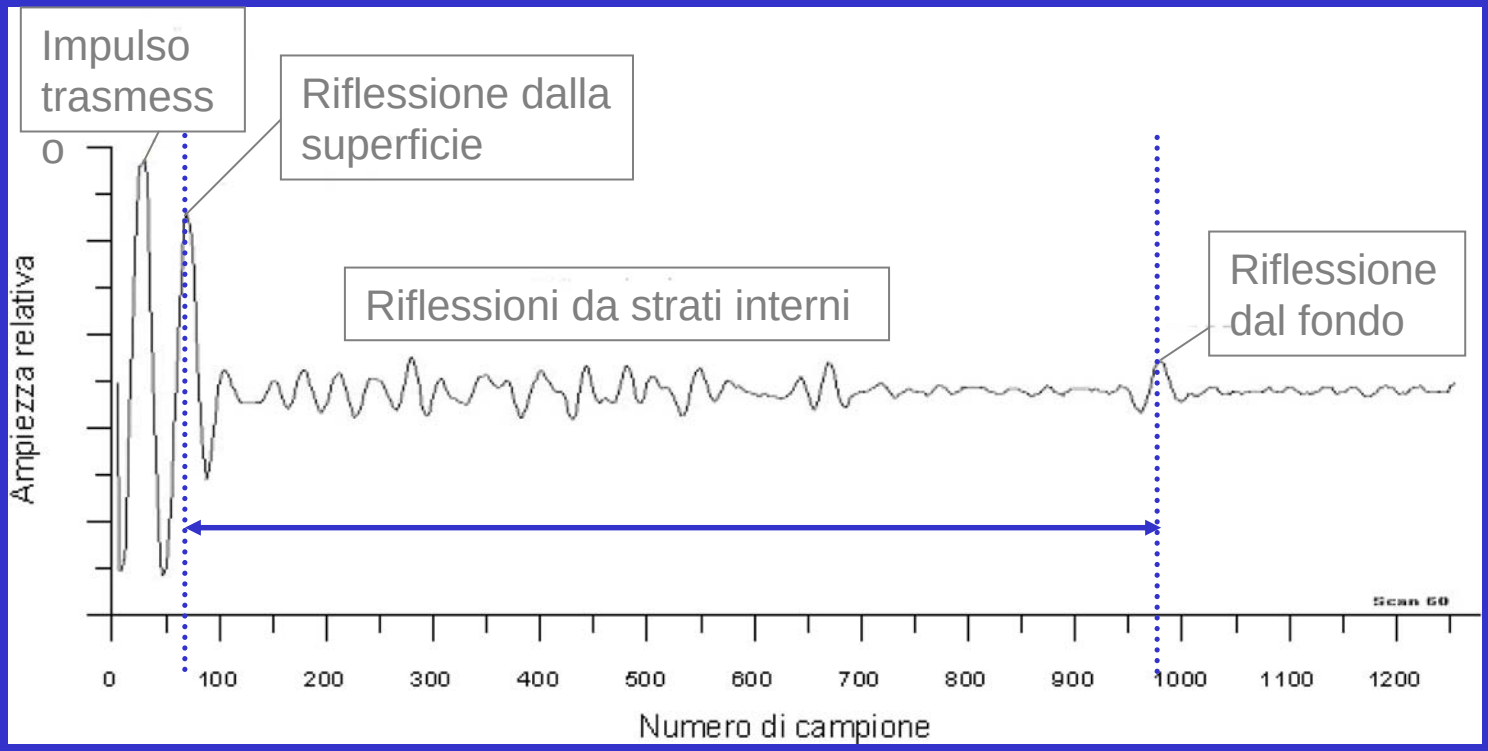
Il radar: principi fisici

1. Un impulso elettromagnetico di frequenza appropriata viene trasmesso da una antenna



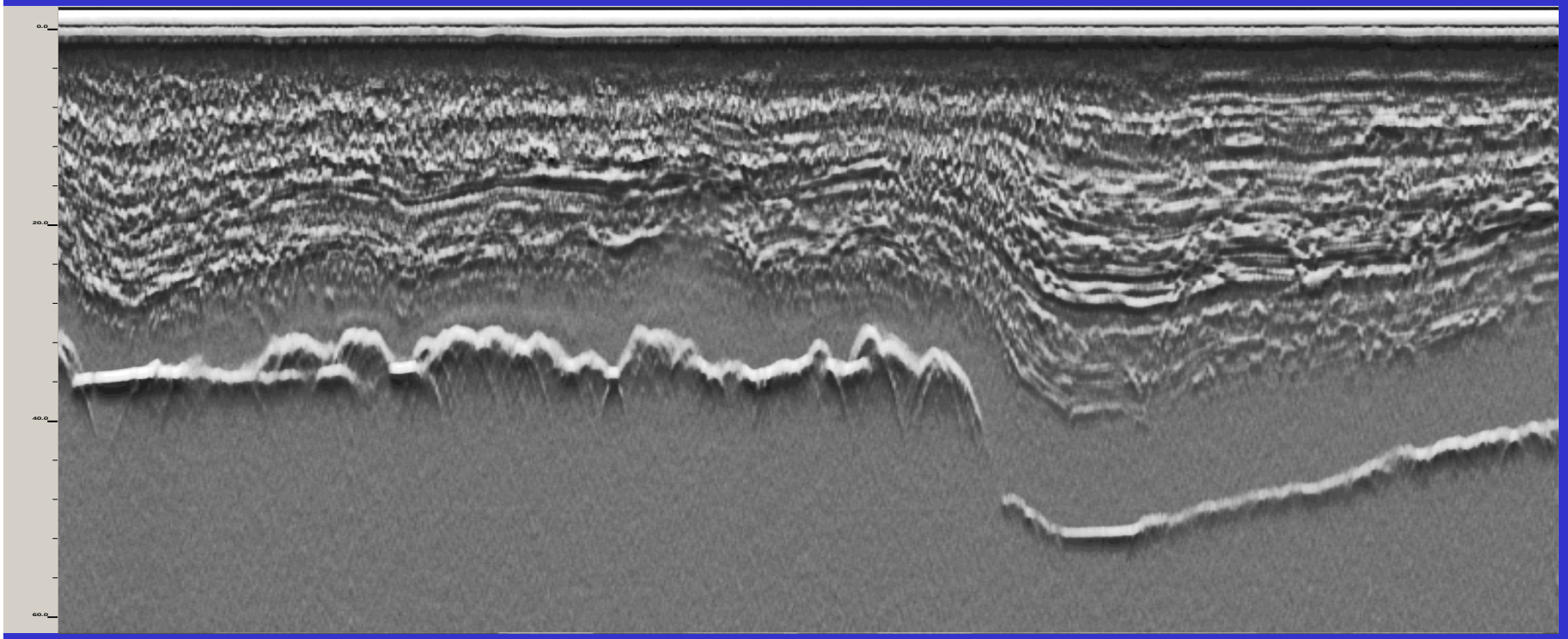
2. Tale impulso penetra nel ghiaccio fino alla base della calotta e riflesso verso la superficie, dove viene ricevuto da una seconda antenna

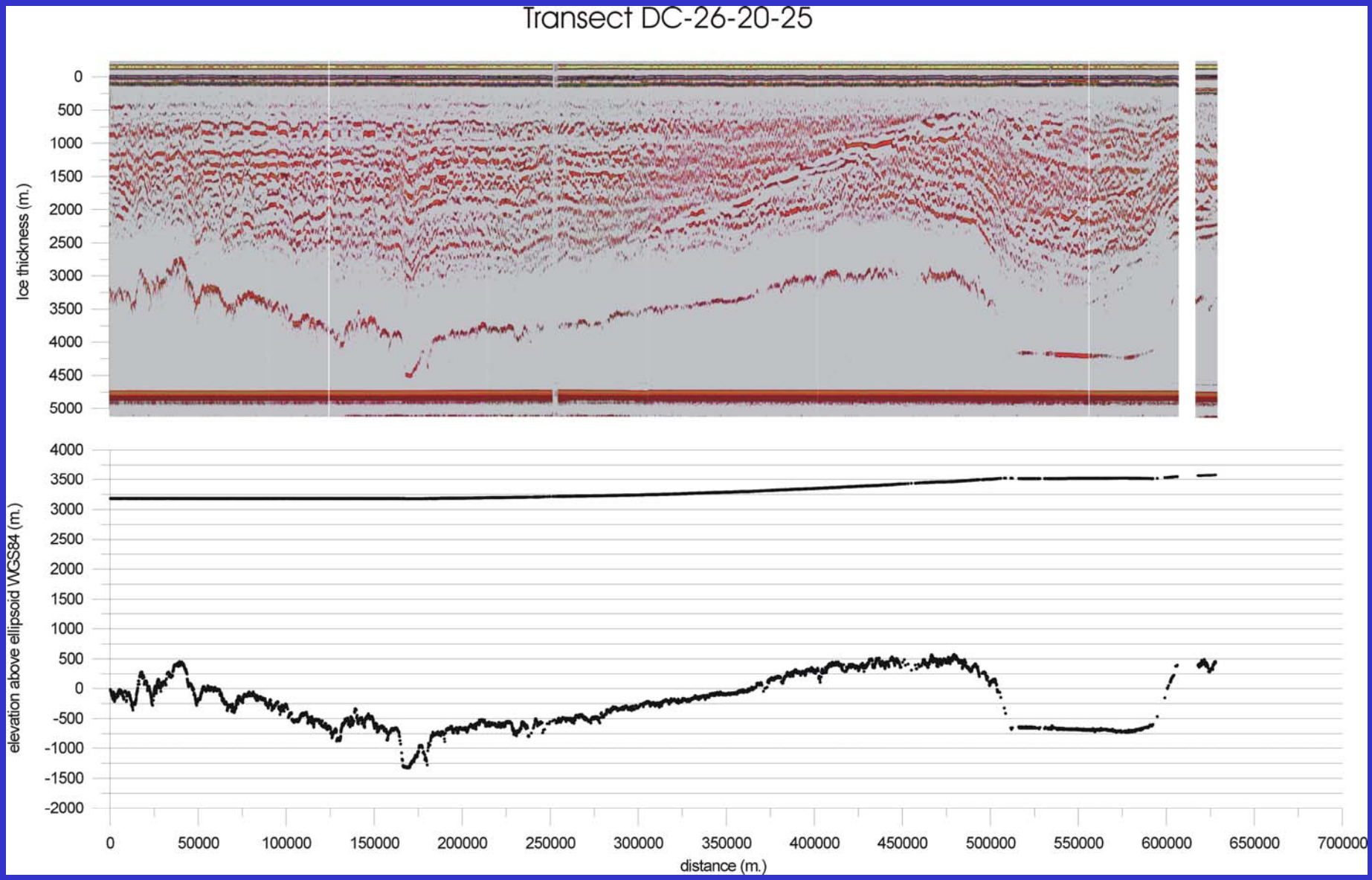
Il radar: dati

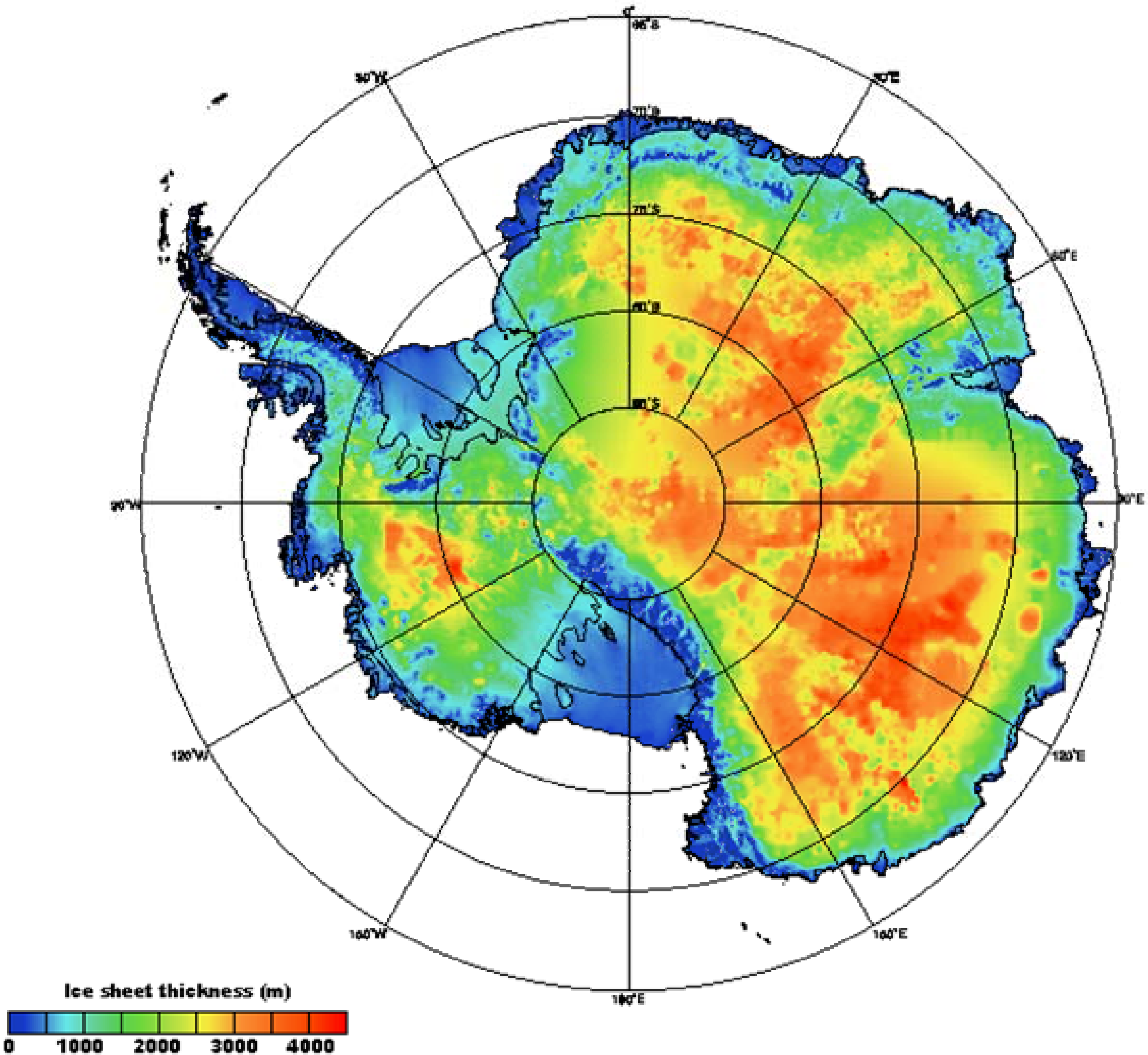


Nota la velocità di propagazione dell'onda nel ghiaccio, calcolando il tempo intercorso tra la riflessione dalla superficie e quella dal fondo, è possibile risalire allo spessore della calotta

Velocità assunta costante e pari a 168 m μs^{-1} (Bogorodsky, Glen Paren)

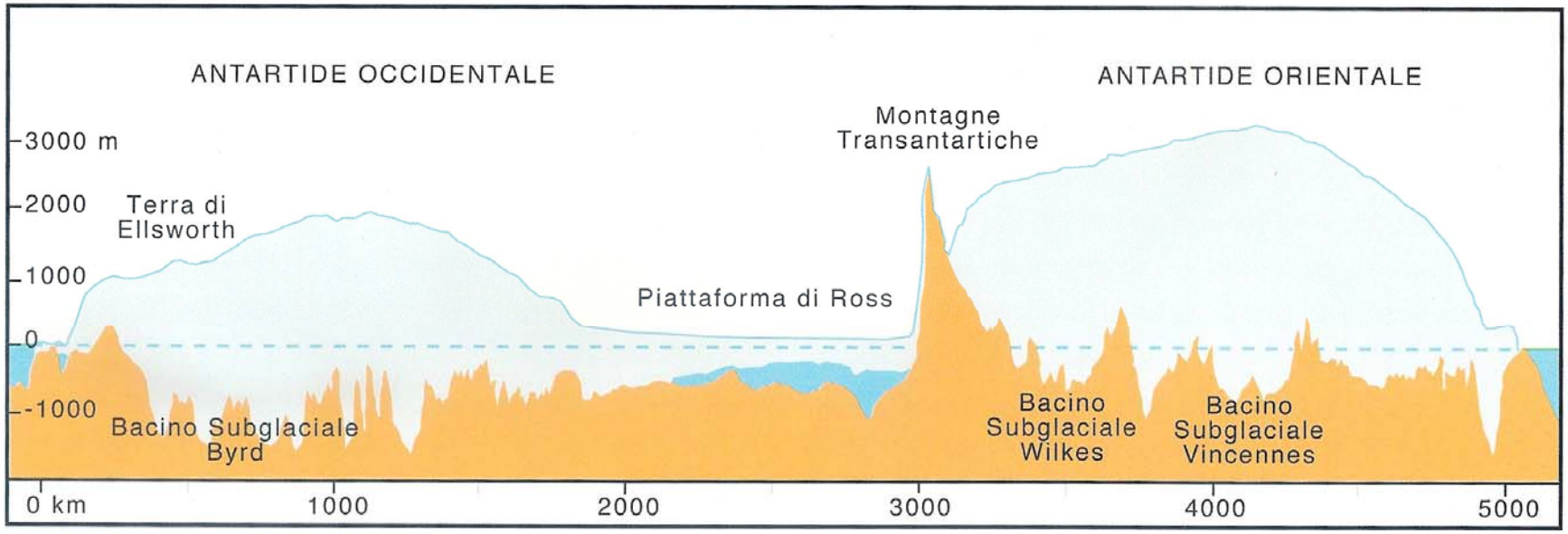

0.0
20.0
40.0
60.0


Transect DC-26-20-25
Ice thickness (m.)
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
elevation above ellipsoid WGS84 (m.)
4000
3500
3000
2500
2000
1500
1000
500
0
-500
-1000
-1500
-2000
0
50000
100000
150000
200000
250000
300000
350000
400000
450000
500000
550000
600000
650000
700000
distance (m.)



30°W
30°E
60°E
90°W
90°E
120°W
120°E
150°W
150°E
180°E
Ice sheet thickness (m)
0
1000
2000
3000
4000

Sezione attraverso la calotta antartica.



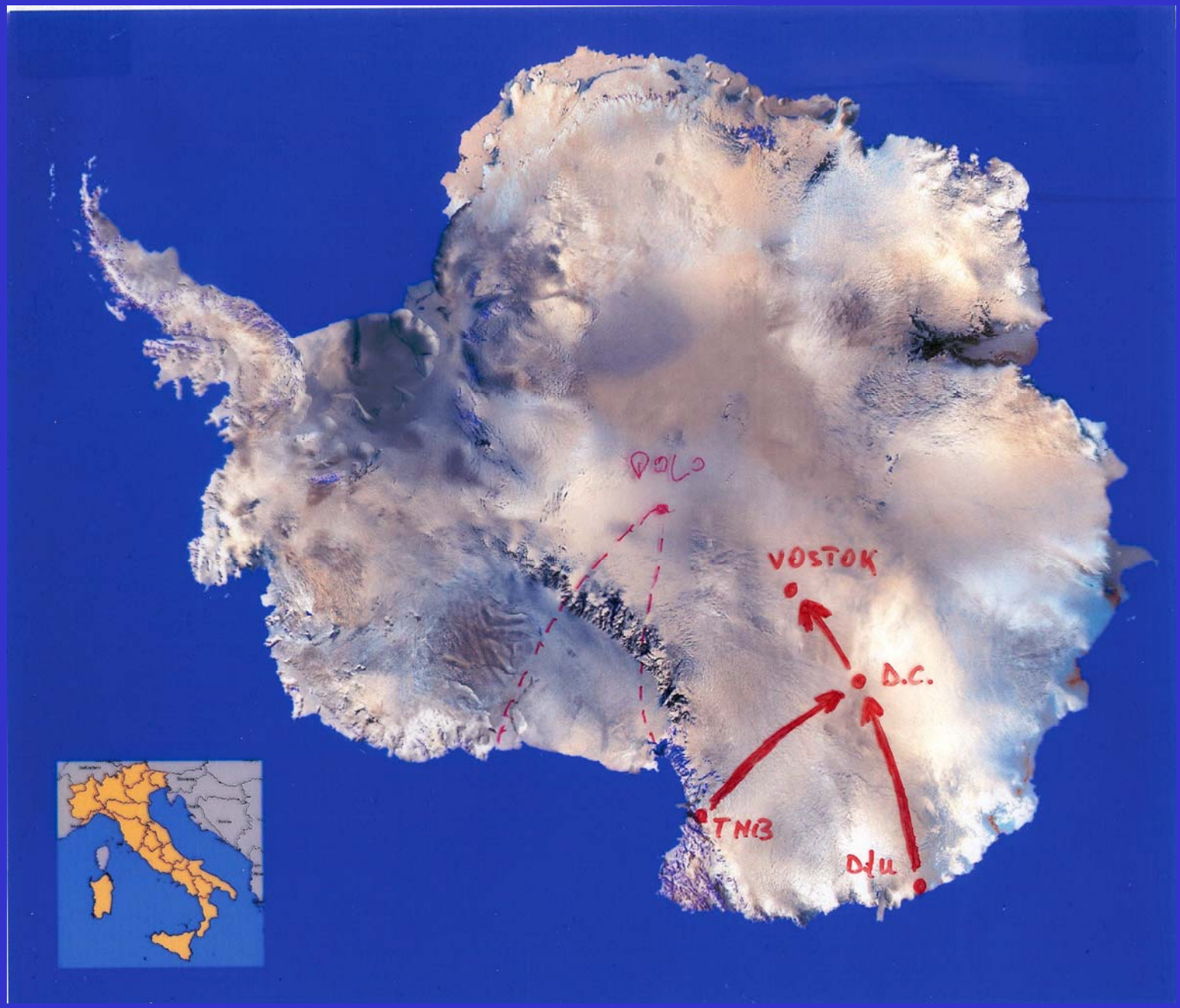

POLO
VOSTOK
D.C.
TNB
Ddu


Image © 2005 EarthSat
Google


Image © 2005 EarthSat
Google

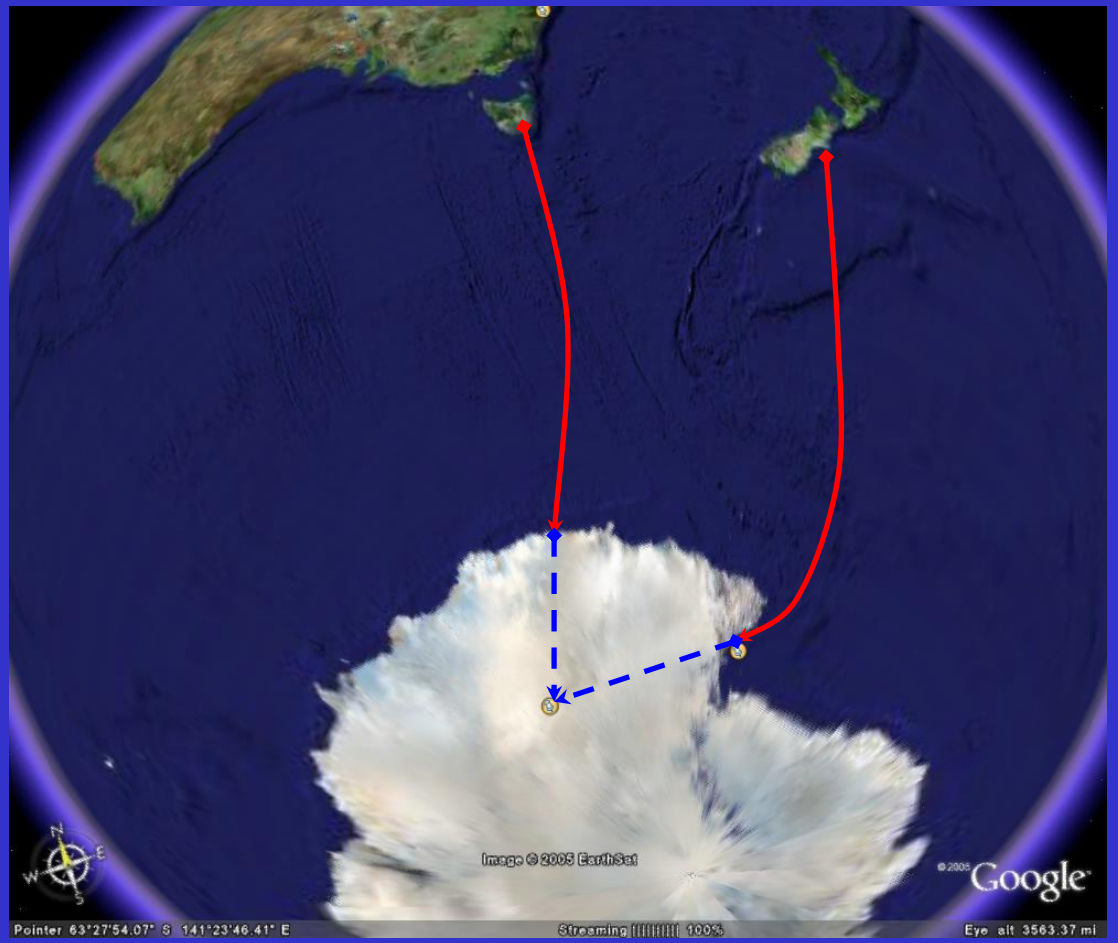
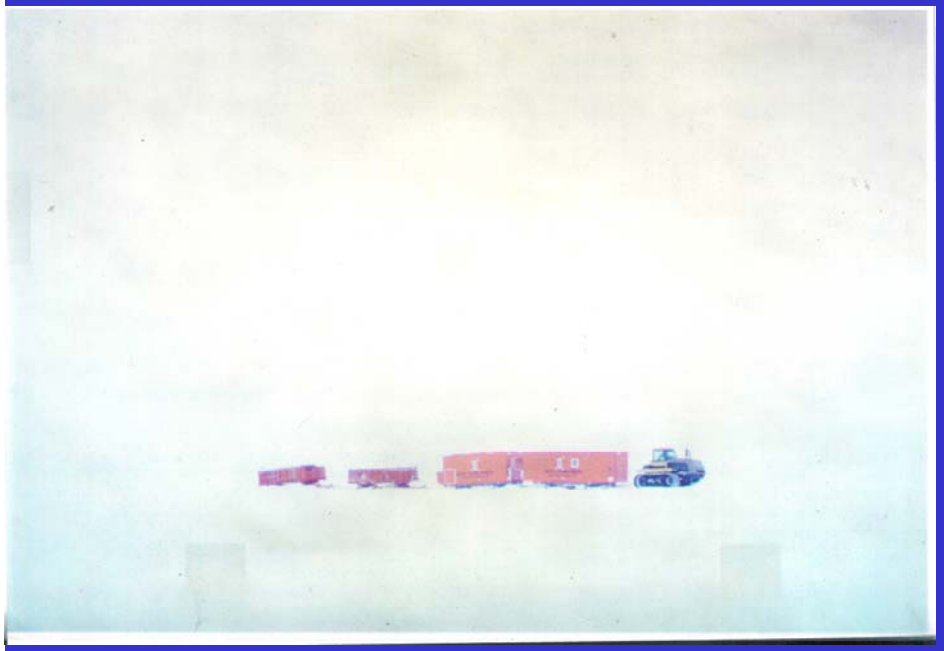


Image © 2005 EarthSat
©2005 Google
Pointer 63°27'54.07" S 141°23'46.41" E
Streaming 100%
Eye alt 3563.37 mi

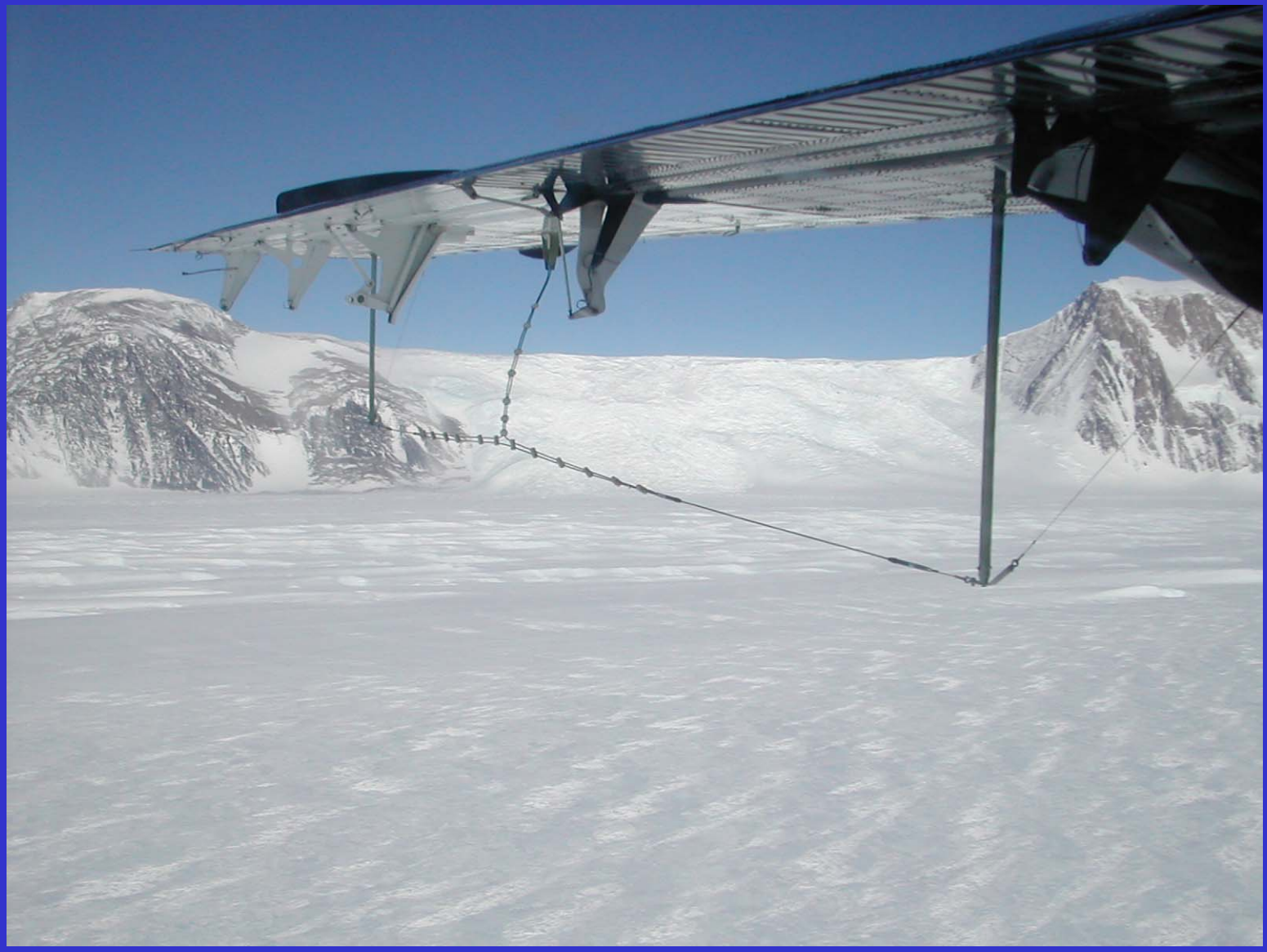


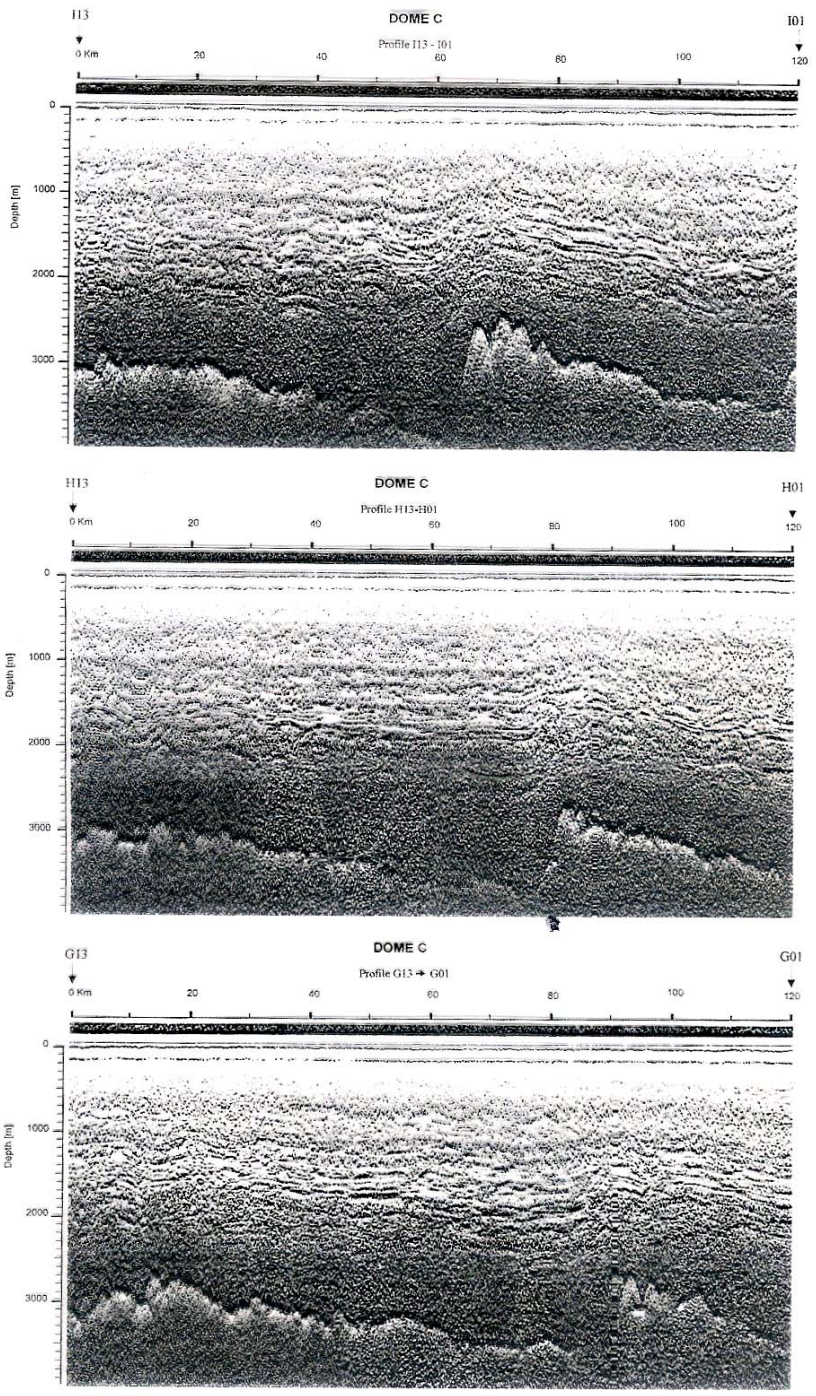

Kenn Borek Air Ltd.

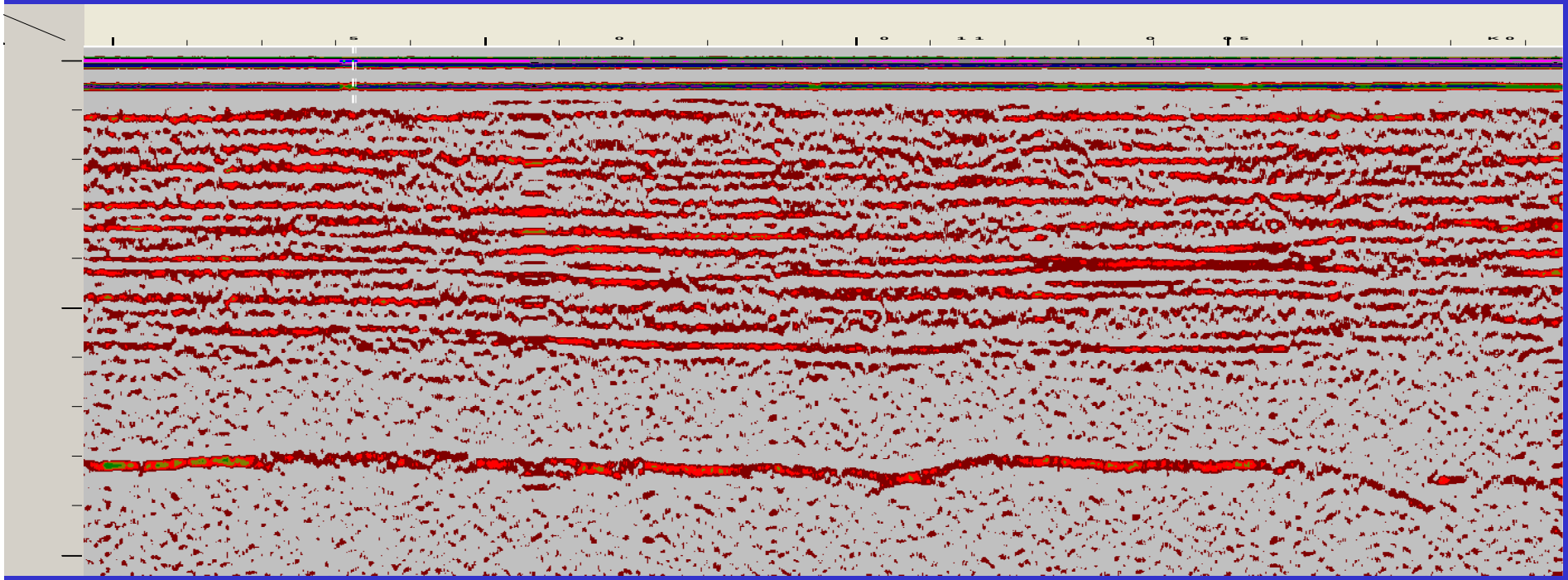

ADELE

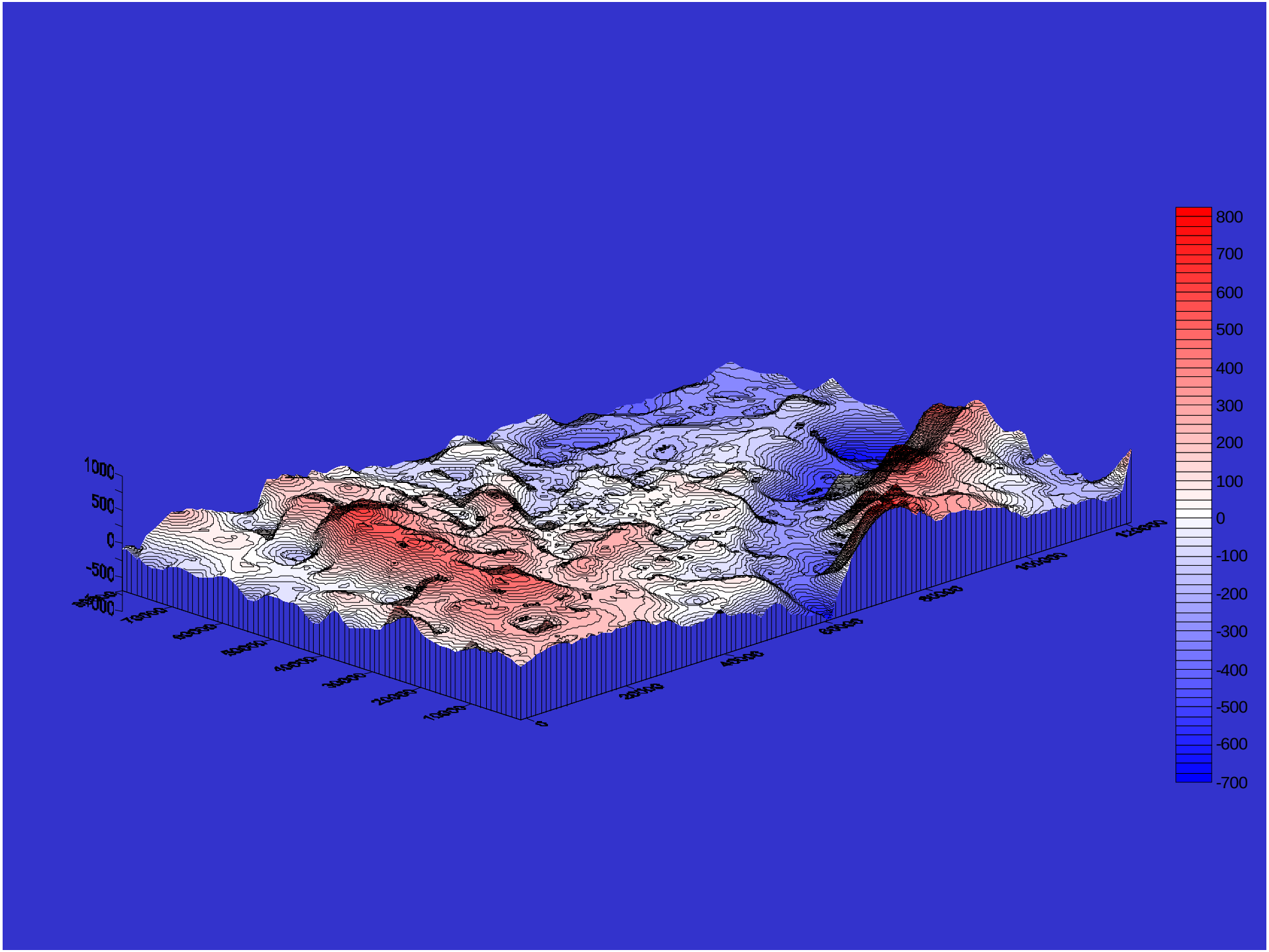

ITALIANTARTIDE

foto1

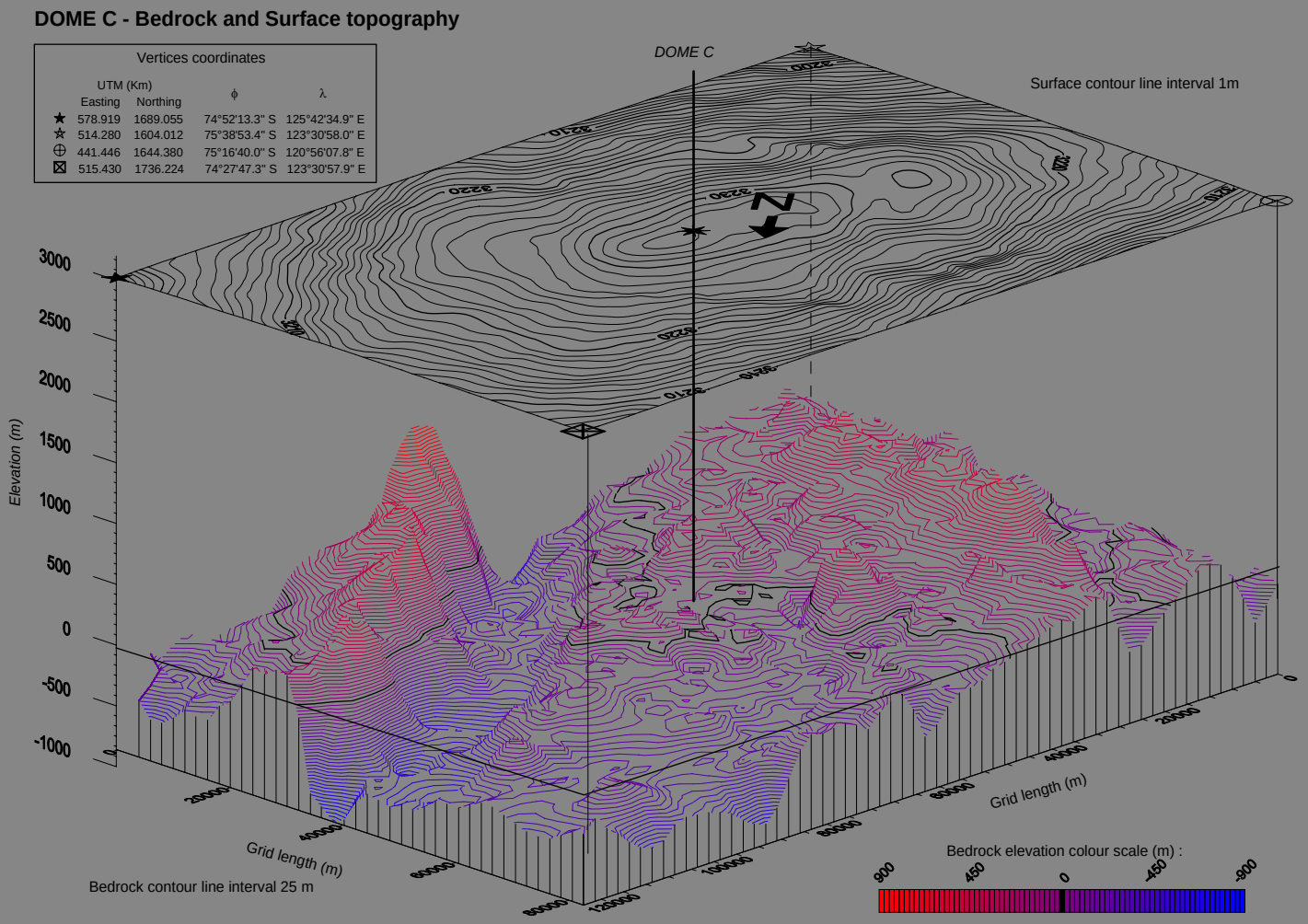



I13
DOME C
I01
Profile I13 - I01
0 Km
20
40
60
80
100
120
0
1000
2000
3000
Depth [m]
H13
DOME C
H01
Profile H13-H01
0 Km
20
40
60
80
100
120
0
1000
2000
3000
Depth [m]
G13
DOME C
G01
Profile G13 → G01
0 Km
20
40
60
80
100
120
0
1000
2000
3000
Depth [m]




1000
500
0
-500
800
700
600
500
400
300
200
100
0
-100
-200
-300
-400
-500
-600
-700

DOME C



Tabacco et al., 1998