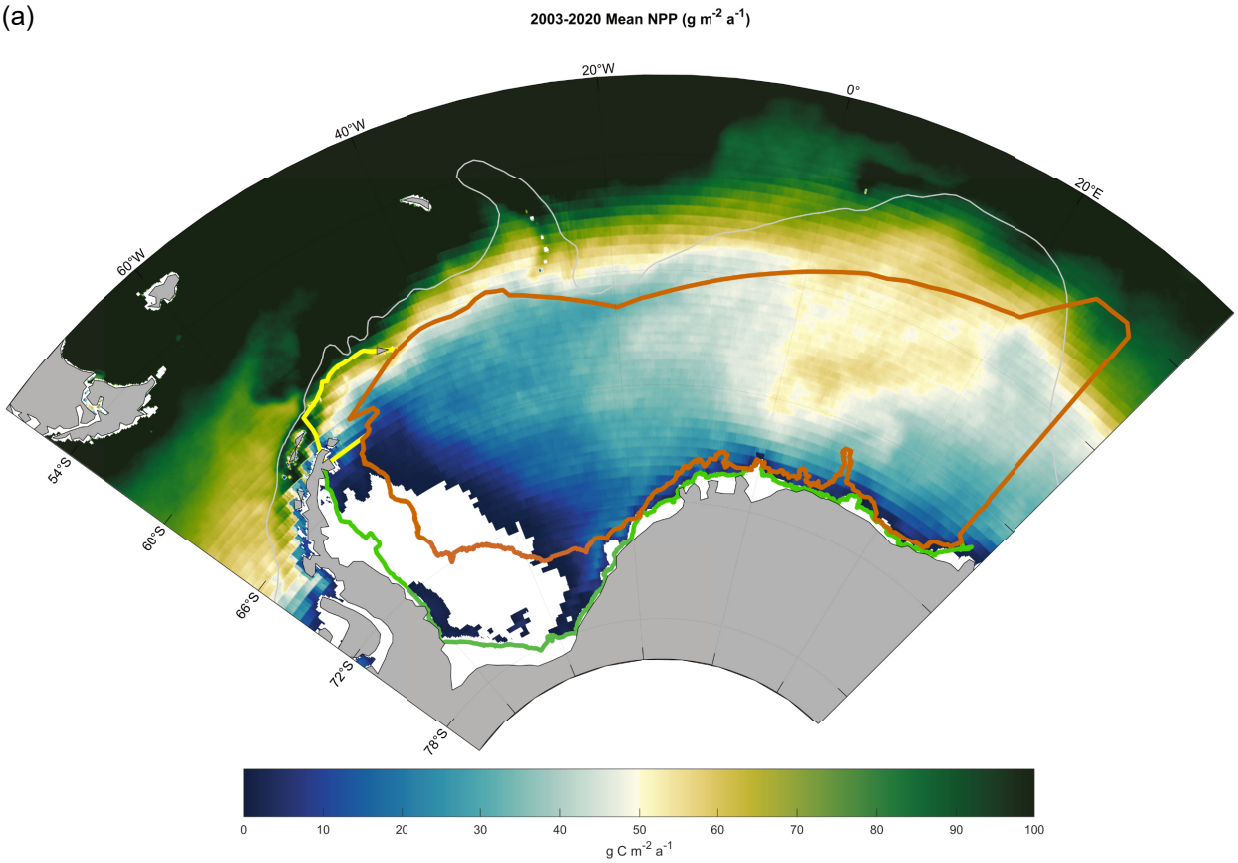
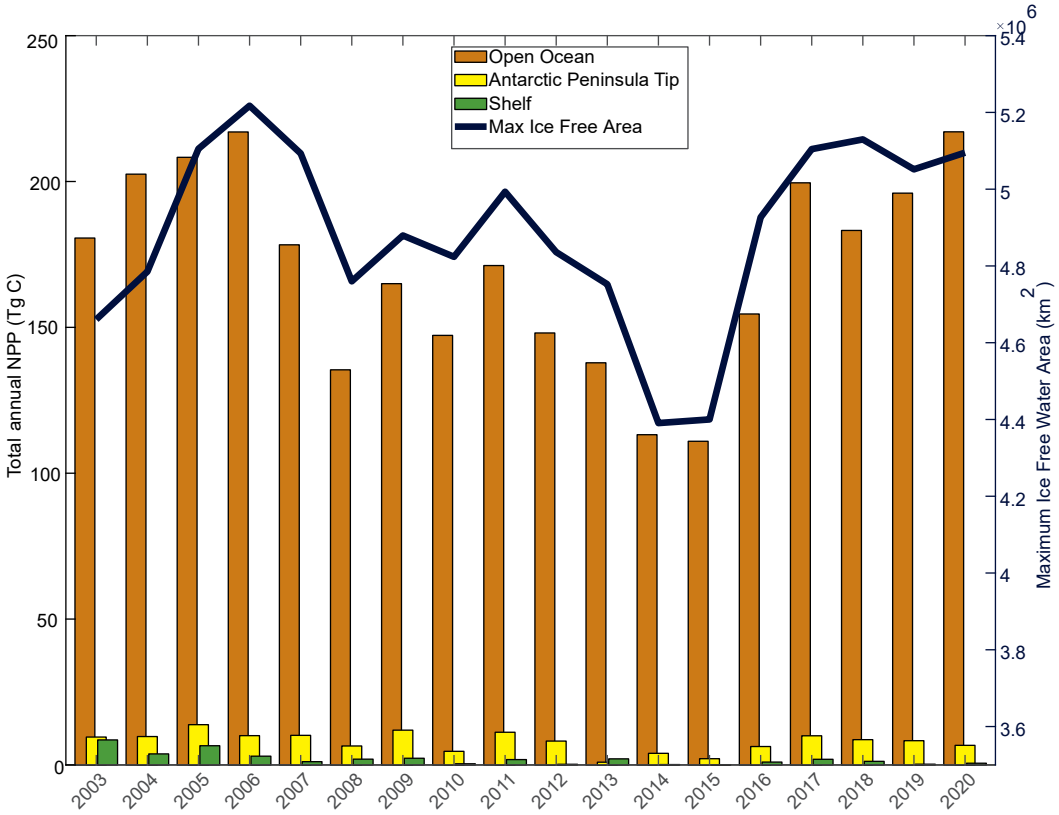
(a)


2003-2020 Mean NPP (g m-2 a-1)
20°W
0°
20°E
40°W
60°W
54°S
60°S
66°S
72°S
78°S
0
10
20
30
40
50
60
70
80
90
100
g C m-2 a-1

(b)


Open Ocean
Antarctic Peninsula Tip
Shelf
Max Ice Free Area
Total annual NPP (Tg C)
Maximum Ice Free Water Area (km2)
×10^6
250
200
150
100
50
0
5.4
5.2
5
4.8
4.6
4.4
4.2
4
3.8
3.6
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020