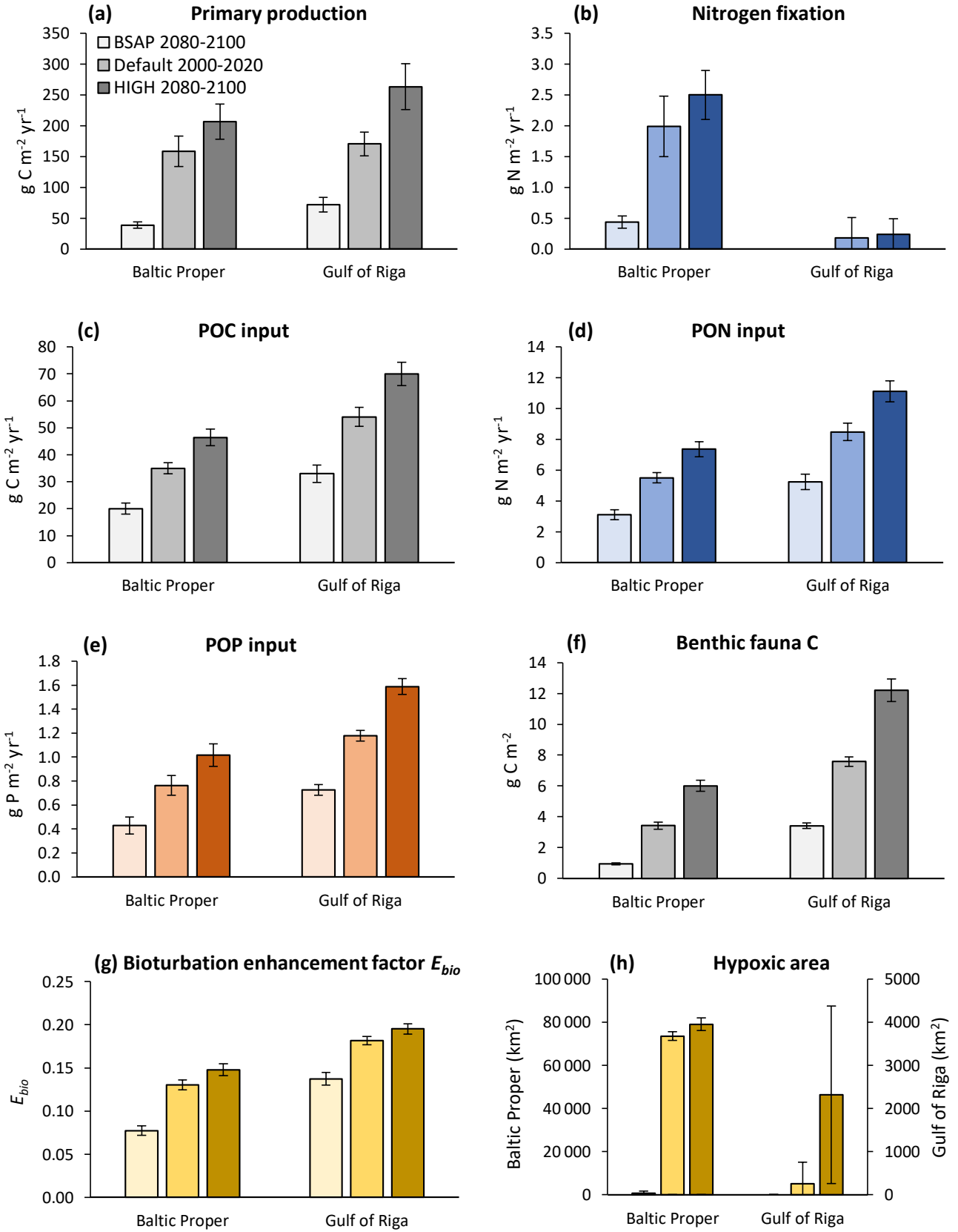
(a) Primary production
BSAP 2080-2100
Default 2000-2020
HIGH 2080-2100
g C m-2 yr-1
350
300
250
200
150
100
50
0
Baltic Proper
Gulf of Riga
(b) Nitrogen fixation
g N m-2 yr-1
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Baltic Proper
Gulf of Riga
(c) POC input
g C m-2 yr-1
80
70
60
50
40
30
20
10
0
Baltic Proper
Gulf of Riga
(d) PON input
g N m-2 yr-1
14
12
10
8
6
4
2
0
Baltic Proper
Gulf of Riga
(e) POP input
g P m-2 yr-1
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Baltic Proper
Gulf of Riga
(f) Benthic fauna C
g C m-2
14
12
10
8
6
4
2
0
Baltic Proper
Gulf of Riga
(g) Bioturbation enhancement factor E_bio
E_bio
0.25
0.20
0.15
0.10
0.05
0.00
Baltic Proper
Gulf of Riga
(h) Hypoxic area
Baltic Proper (km2)
100 000
80 000
60 000
40 000
20 000
0
Gulf of Riga (km2)
5000
4000
3000
2000
1000
0
Baltic Proper
Gulf of Riga