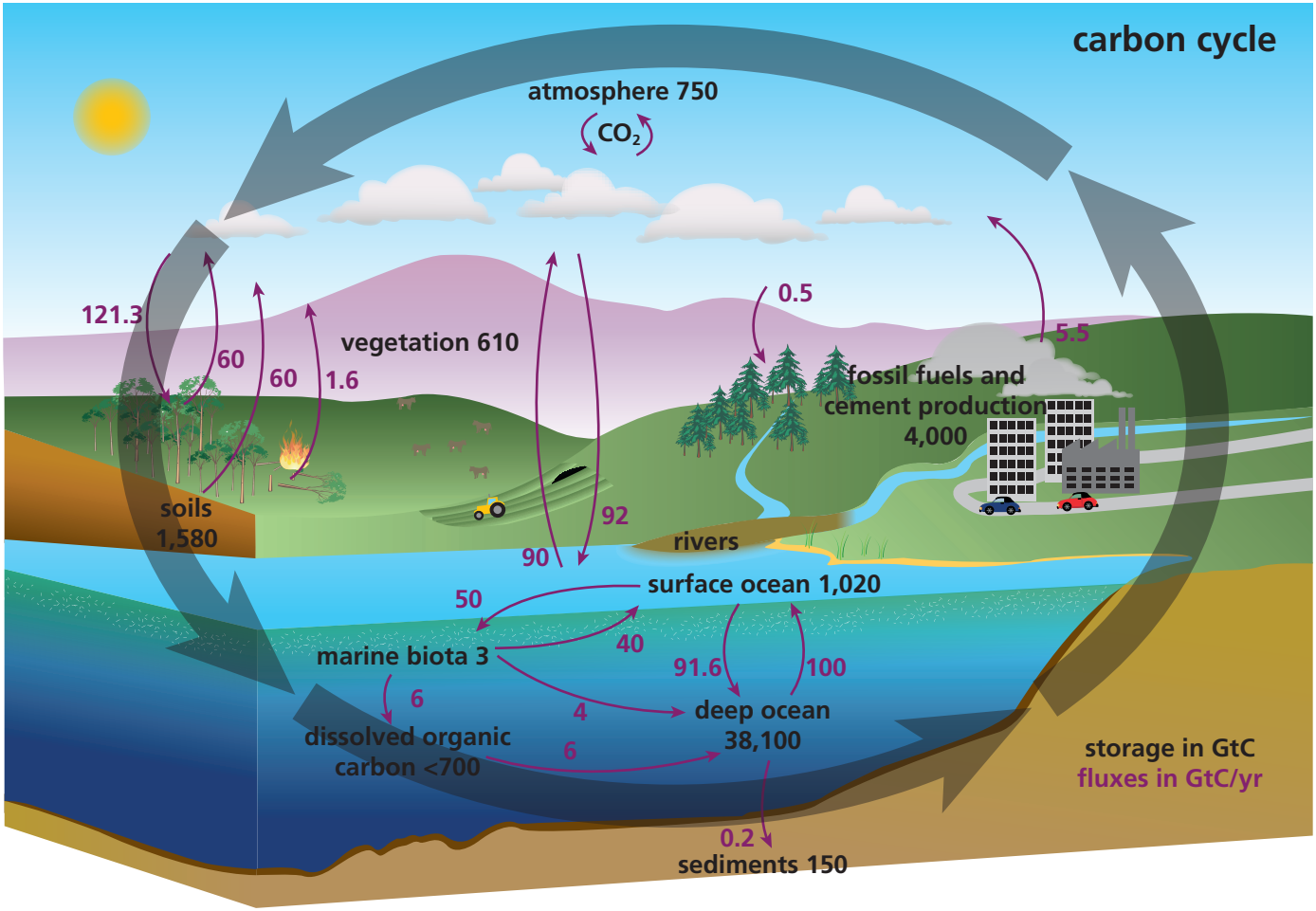
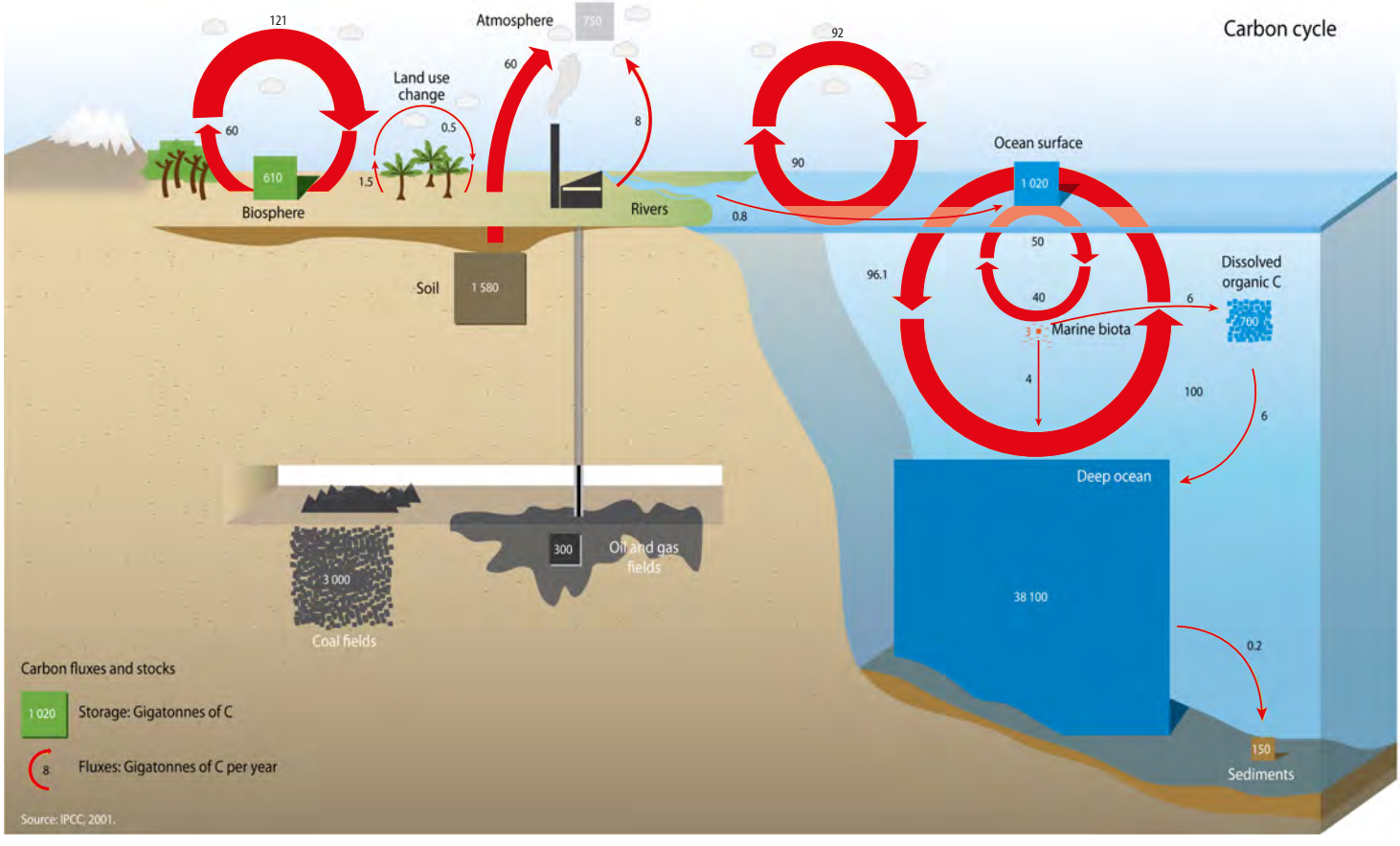

carbon cycle
atmosphere 750
CO_2
121.3
60
60
1.6
vegetation 610
0.5
5.5
fossil fuels and
cement production
4,000
soils
1,580
92
90
rivers
surface ocean 1,020
50
40
marine biota 3
91.6
100
6
4
deep ocean
38,100
dissolved organic
carbon <700
6
storage in GtC
fluxes in GtC/yr
0.2
sediments 150


Carbon cycle
Atmosphere
750
121
60
610
Biosphere
Land use change
0.5
1.5
60
8
92
90
Ocean surface
1 020
Rivers
0.8
Soil
1 580
50
40
96.1
Dissolved organic C
700
6
Marine biota
3
4
100
6
Deep ocean
38 100
300
Oil and gas fields
3 000
Coal fields
0.2
150
Sediments
Carbon fluxes and stocks
1 020
Storage: Gigatonnes of C
8
Fluxes: Gigatonnes of C per year
Source: IPCC, 2001.