Global Carbon Cycle Diagram

Sketch a Global Carbon Cycle using this table. Draw colored arrows showing the direction carbon is moving from each reservoir. Label each arrow with the process that is moving the carbon from reservoir to reservoir (you must find the processes on your own). Label the amount of carbon that is in each reservoir and label the amount of carbon that is moving.

CARBON RESERVOIRS AND ATMOSPHERE FLOWS			
RESERVOIR	FORM OF	AMOUNT IN	FLOW RATE WITH
	CARBON	RESERVOIR	ATMOSPHERE
Atmosphere	Mainly carbon	840 Gt	Greenhouse gases
	dioxide (gas)		are increasing due
			to human activities.
Biomass	Sugar, protein, etc.	2,500 Gt (mostly in	About 120 Gt per
(biosphere)	(solid, liquid)	plants and soil)	year into and out of
			air. Currently
			absorbing about 2.5
			Gt per year.
Ocean	Mostly dissolved	41,000 Gt	About 80 Gt per
(hydrosphere)	bicarbonate salts		year into and out of
			air. Currently
			absorbing about 2.5
			Gt per year.
Sedimentary rocks	Carbonate minerals	60,000,000 Gt	Negligible annually
(geosphere)	(solid)		but important over
			very long time
			scales.
Fossil Fuels	Methane (gas)	10,000 Gt	About 9 Gt/year into
(geosphere/	Petroleum (liquid)		atmosphere, mostly
anthrosphere)	Coal (solid)		from burning as
			fuels for energy.

Carbon Reservoirs and Atmospheric Flows Table