



Wayne E. Sirmon

GEO 301

World Regional Geography

Geography 301

World Regional Geography

Aug 29	Online Quiz – Chapter 2
Sept 1	Online Quiz – Chapter 3
Sept 3	1 st paper topic selection due
Sept 5	Map Exam
Oct 15	1 st Paper DUE

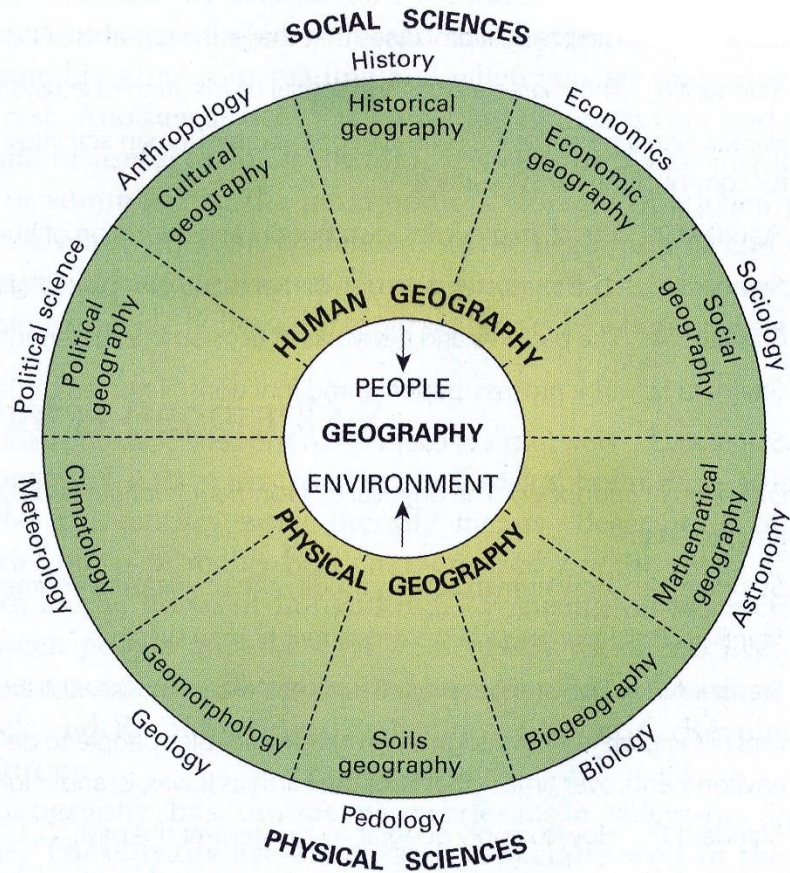
Expect changes to syllabus:

More on-line quizzes

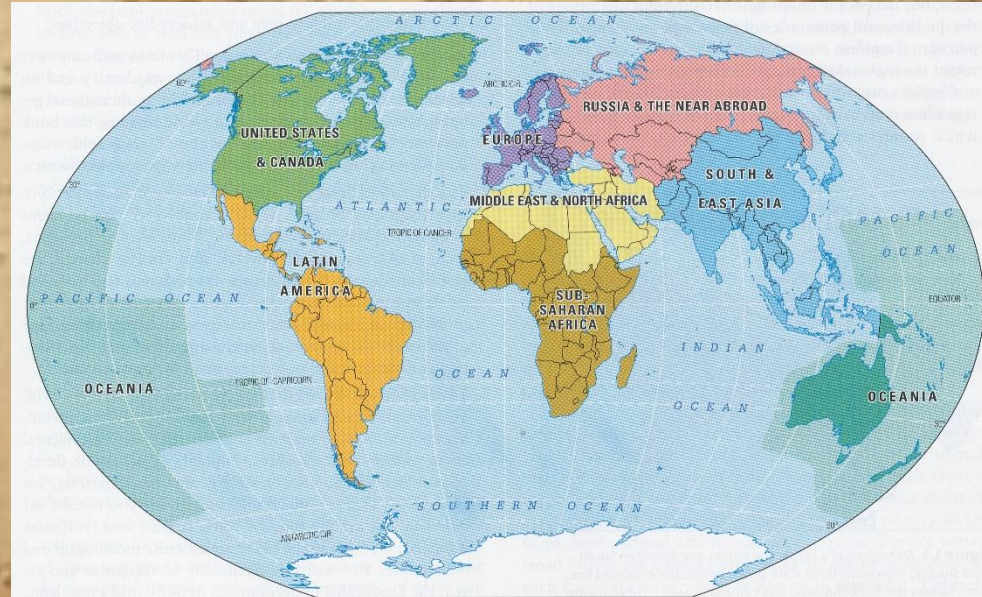
Less pages to reports (but more emphasis on finding good references)

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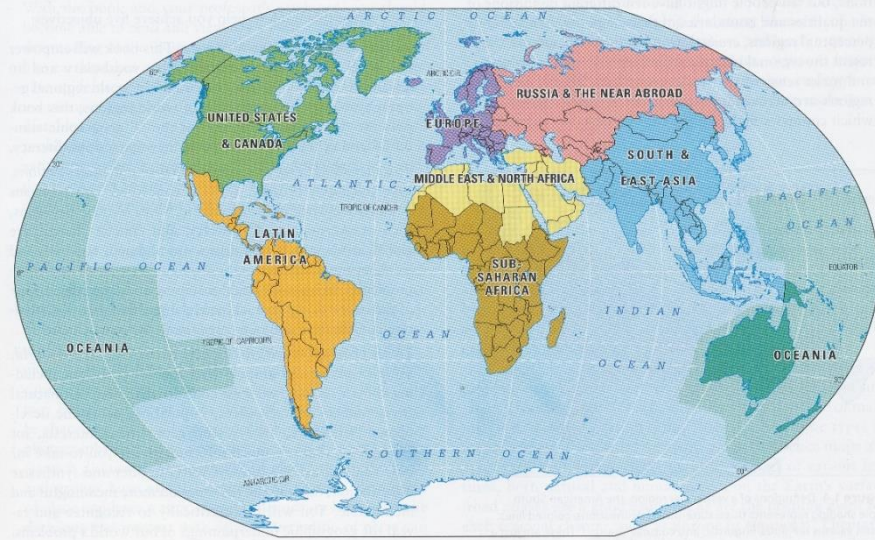
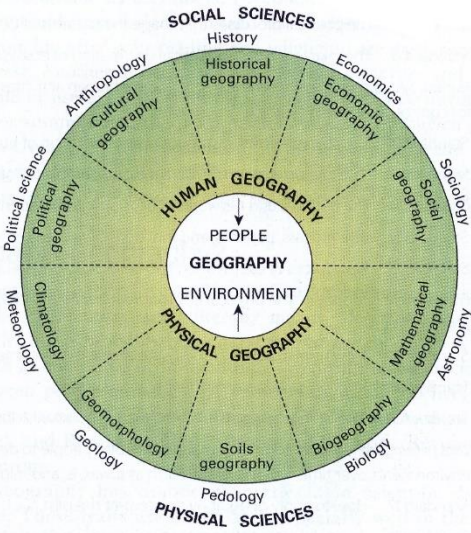


Regional Geography



Subfields of Geography

Subfields of Geography



Regional Geography

Essay Topics Grid

	Europe	Russia & Near Abroad	Middle East & N. Africa	S & E Asia
Political Science Political Geography				
Anthropology Cultural Geography				
History Historical Geography				
Economics Economic Geography				
Sociology Social Geography				
Astronomy Mathematical Geography				
Biology Biogeography				
Pedology Soils Geography				
Geology Geomorphology				
Meteorology Climatology				

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Water

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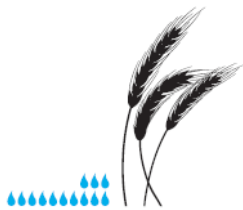
Water Footprint

Water

Using TWO online “water footprint calculators” estimate what your water footprint is (not counting living in a dorm).

Email me your results by Wednesday evening and be ready to discuss it in class on Thursday.

WHAT IS WATER FOOTPRINT?



650 Barley
litres of water for one pound (500g)



650 Wheat
litres of water for one pound (500g)



1400 Sorghum
litres of water for one pound (500g)



2500 Millet
litres of water for one pound (500g)



650 Toast
litres of water for one package (500g)



750 Cane Sugar
litres of water for one package (500g)



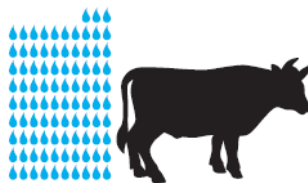
90 Tea
litres of water for one pot (750 ml)



840 Coffee
litres of water for one pot (750 ml)



2500 Burger
litres of water for one burger (150g beef)



4650 Beef
litres of water for one steak (300g)



1000 Milk
litres of water for one litre

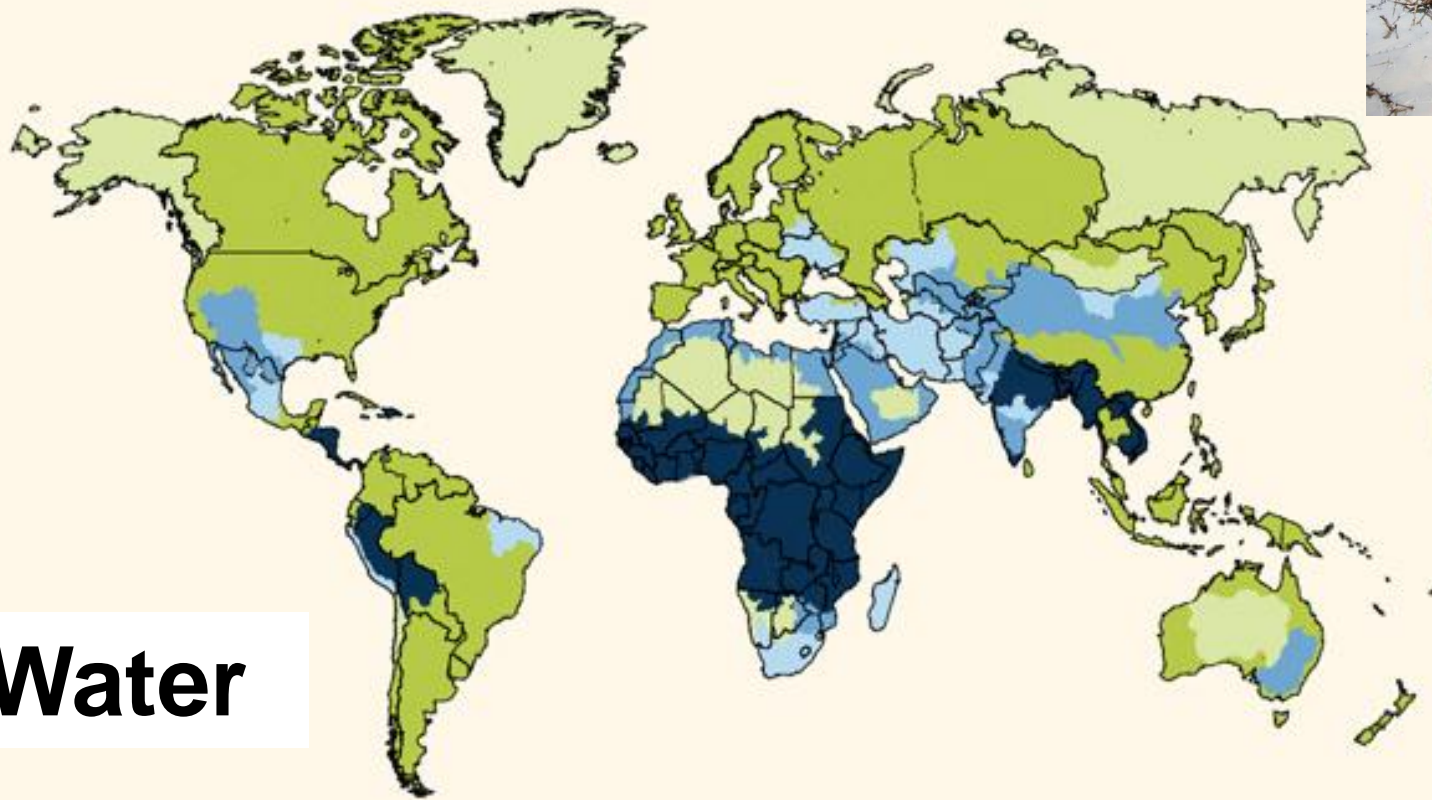


2500 Cheese
litres of water for one big piece (500g)

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Global physical and economic water scarcity
(a lack of investment in water infrastructure)



- Little or no water scarcity
- Physical water scarcity
- Approaching physical water scarcity
- Economic water scarcity
- Not estimated

Water

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Chapter Two –

Global Climate Change

Kick Start Questions for next time:

August 29

What gases are labeled “greenhouse gasses”? Why?

The predicted rise in sea level is caused by what two effects of increased temperature? What percentage is assigned to each?

What is meant by “carbon sequestration”?

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HELLO

my name is

~~Climate Change~~

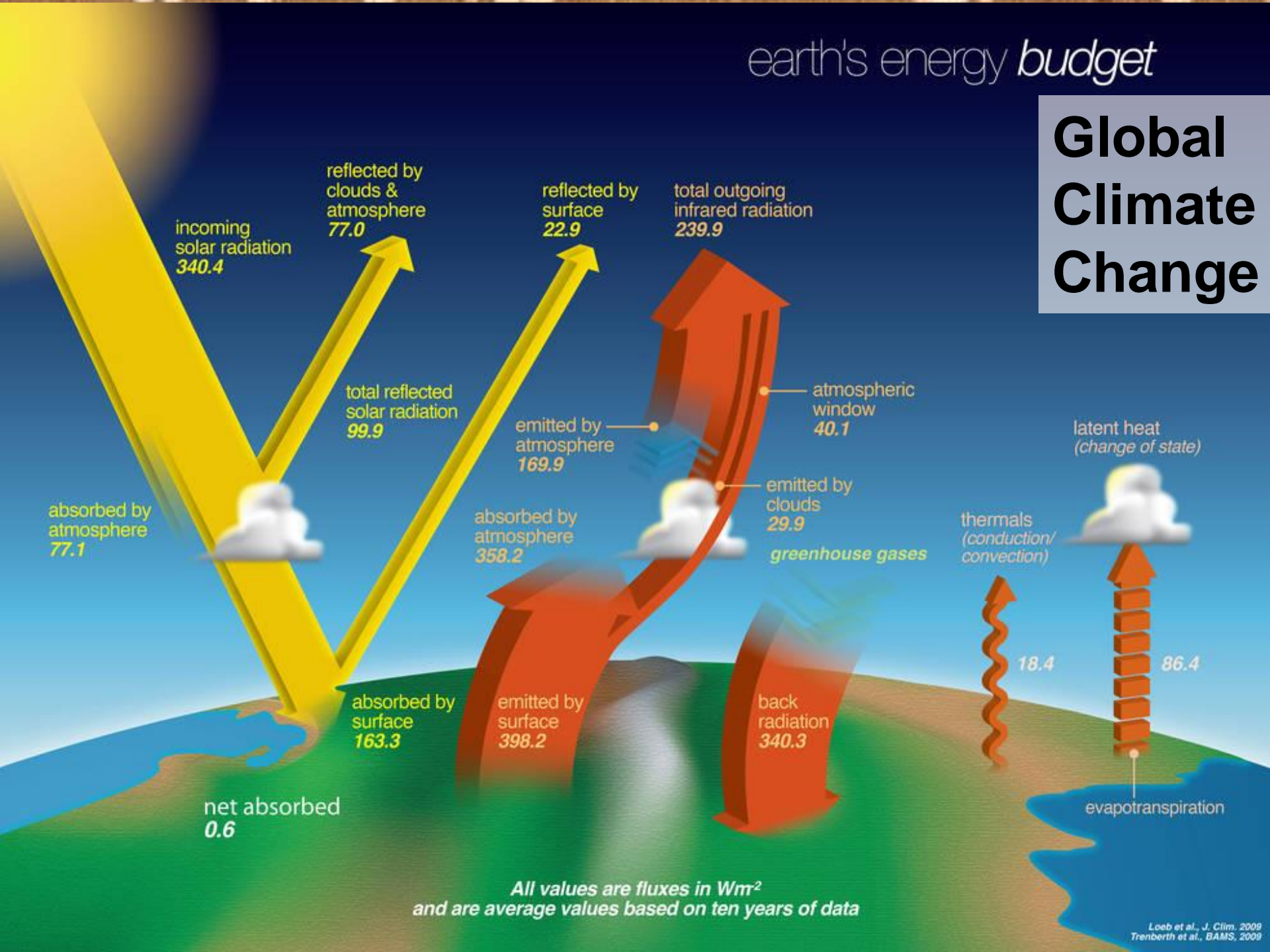
~~Global Warming~~

IT'S COMPLICATED

Global Climate Change

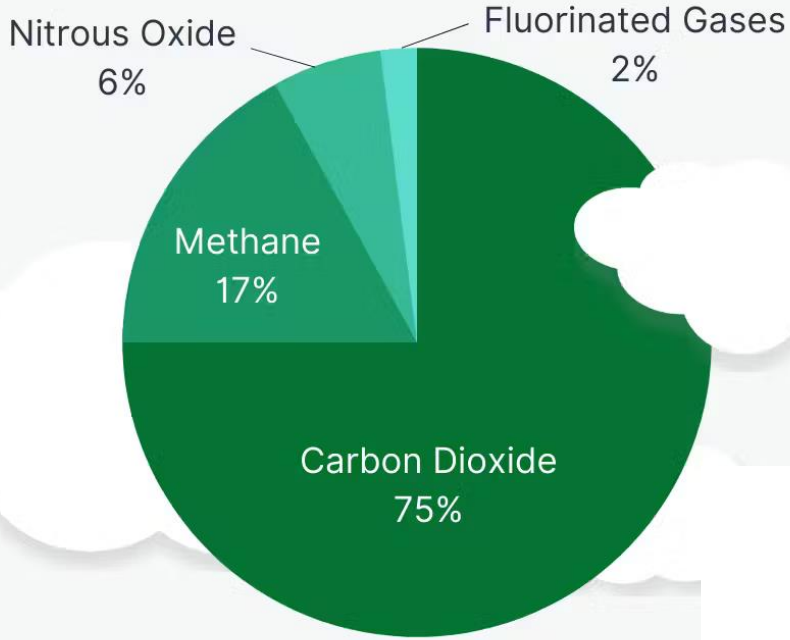
earth's energy *budget*

Global Climate Change

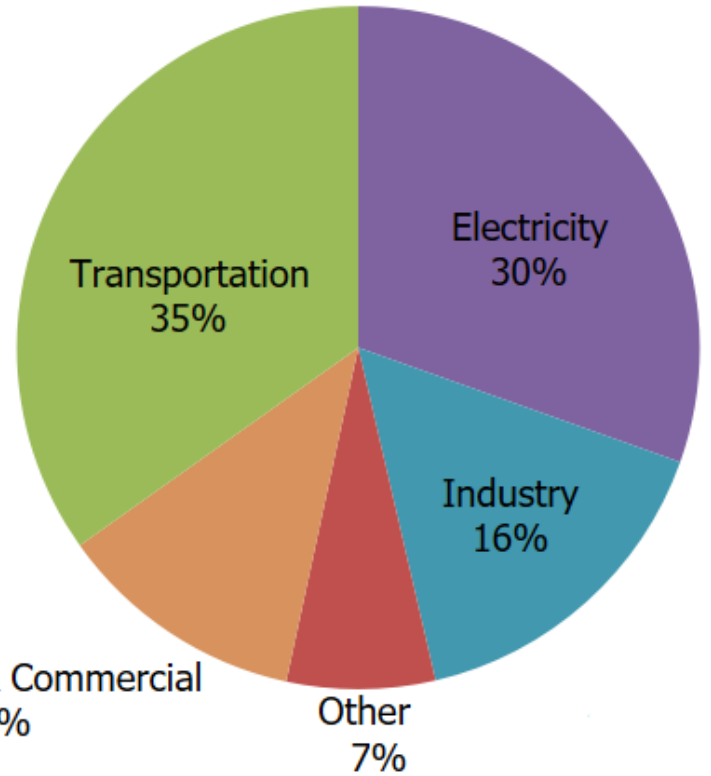


All values are fluxes in Wm^{-2}
and are average values based on ten years of data

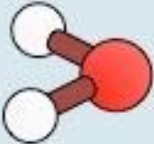

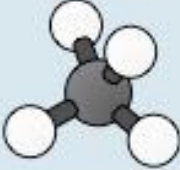

Greenhouse Gas Emissions by Source



Global Climate Change



Global Climate Change

	Water	Carbon Dioxide	Methane	Nitrous Oxide
				
Atmospheric Concentration	0.01–4%*	385 ppm	1797 ppb	322 ppb
Rate of Increase	n/a	1.5 ppm/yr	7.0 ppb/yr	0.8 ppb/yr
Atmospheric Lifetime	Very short 1–5 days	Variable 5–200 yr	12 yr	120 yr
Global Warming Potential (GWP)	n/a†	1	21	310

* The amount of water vapor in the air varies according to temperature and density of air (usually ~1–3% of troposphere)

† Water vapor levels vary strongly according to region, so rates of change and warming potential cannot be assessed

NEXT



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Chapter Three –

Global Climate Change

Kick Start Questions for next time:

September 3

What were the two revolutions that changed the earth?

Why did some countries become rich and others poor?

Why has the human population “exploded”?