

Thurs
8.30.18

Today you will...

- Pick up:
- Cornell Notes WS-glue to ISN pg 19 as a flip
Obs vs. Inference WS-glue to ISN pg 18
- Pick up ruler
- Fill in your Cornell notes on Science
Process/Earth Science
- You're responsible for writing a summary of
your learning in 3-5 sentences.
- Tomorrow is your Quiz!

◆ Make sure your PHONES are in your bags
unless given permission to have them out!



- Unit 1
- Section 1 -
What is Earth
Science

- Section 2 -
Science as a
Process

HISTORY OF EARTH SCIENCE STUDY

- China – 780 BCE kept records of earthquakes
- Ancient Greece – 200 BCE compiled catalog of rocks and minerals
- Maya 4000+ years ago created accurate calendars by observing the sun, stars, and moon.



- Earth scientists help us better understand the world around us by studying how natural forces shape our environment.

They do this by making observations and inferences.

- Observation - Process of collecting information by using the senses



OBSERVATIONS CAN BE QUANTITATIVE OR QUALITATIVE

- Quantitative - observation with numbers



- Qualitative – Observations about characteristics.
E.g. color



MODELS

- Model – A representation to show how an object, system, or concept works.
 1. Physical – Models you can touch.
 2. Graphical – Maps and charts
 3. Mathematical – Made of math equations.
 4. Conceptual – Illustration to support a hypothesis.

Tropical Storm Fay

11 AM EDT Sat Aug 16 2008

Models: Points 12 hours apart (GFDL 6 hours)

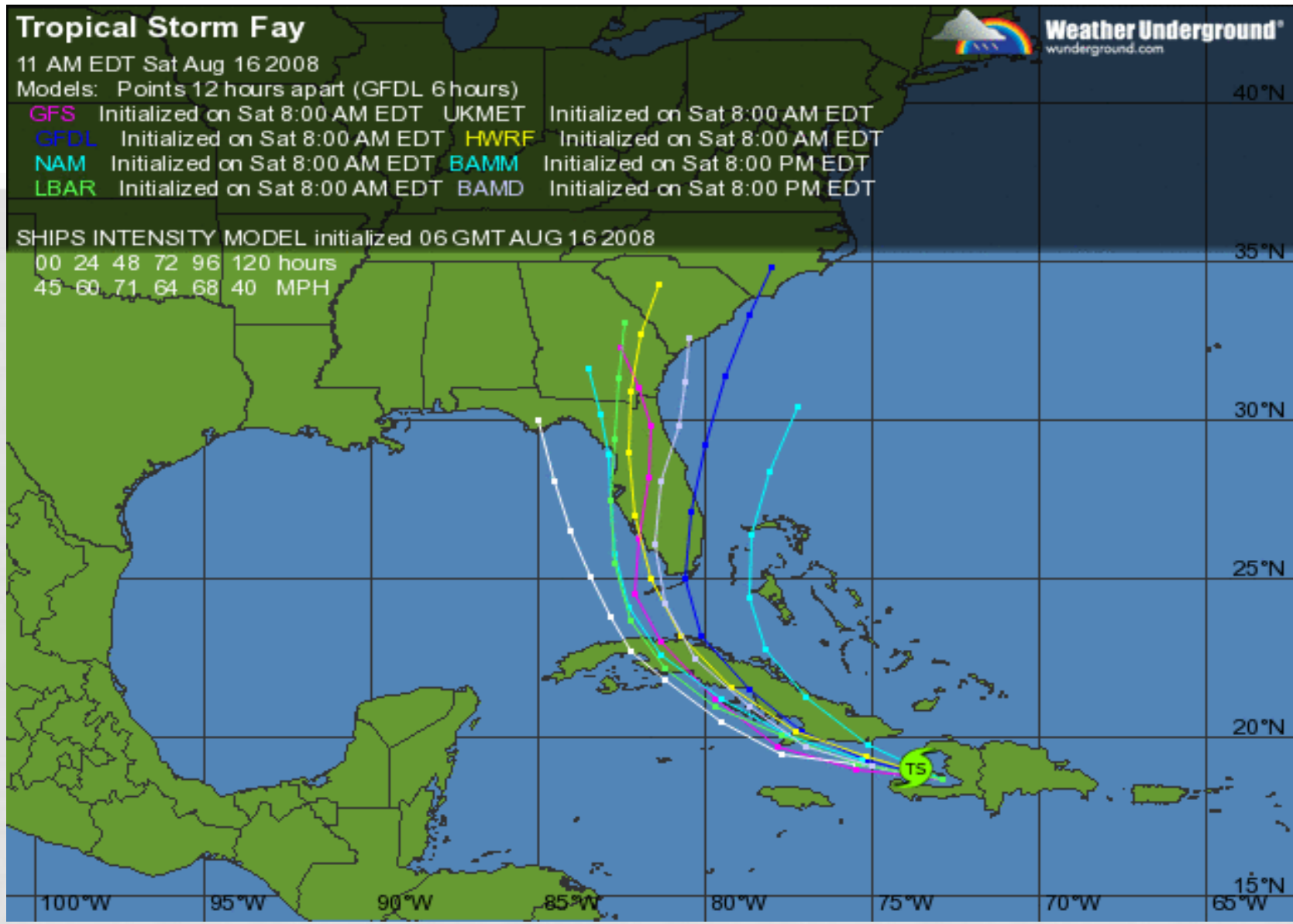
GFS	Initialized on Sat 8:00 AM EDT	UKMET	Initialized on Sat 8:00 AM EDT
GFDL	Initialized on Sat 8:00 AM EDT	HWRF	Initialized on Sat 8:00 AM EDT
NAM	Initialized on Sat 8:00 AM EDT	BAMM	Initialized on Sat 8:00 PM EDT
LBAR	Initialized on Sat 8:00 AM EDT	BAMD	Initialized on Sat 8:00 PM EDT

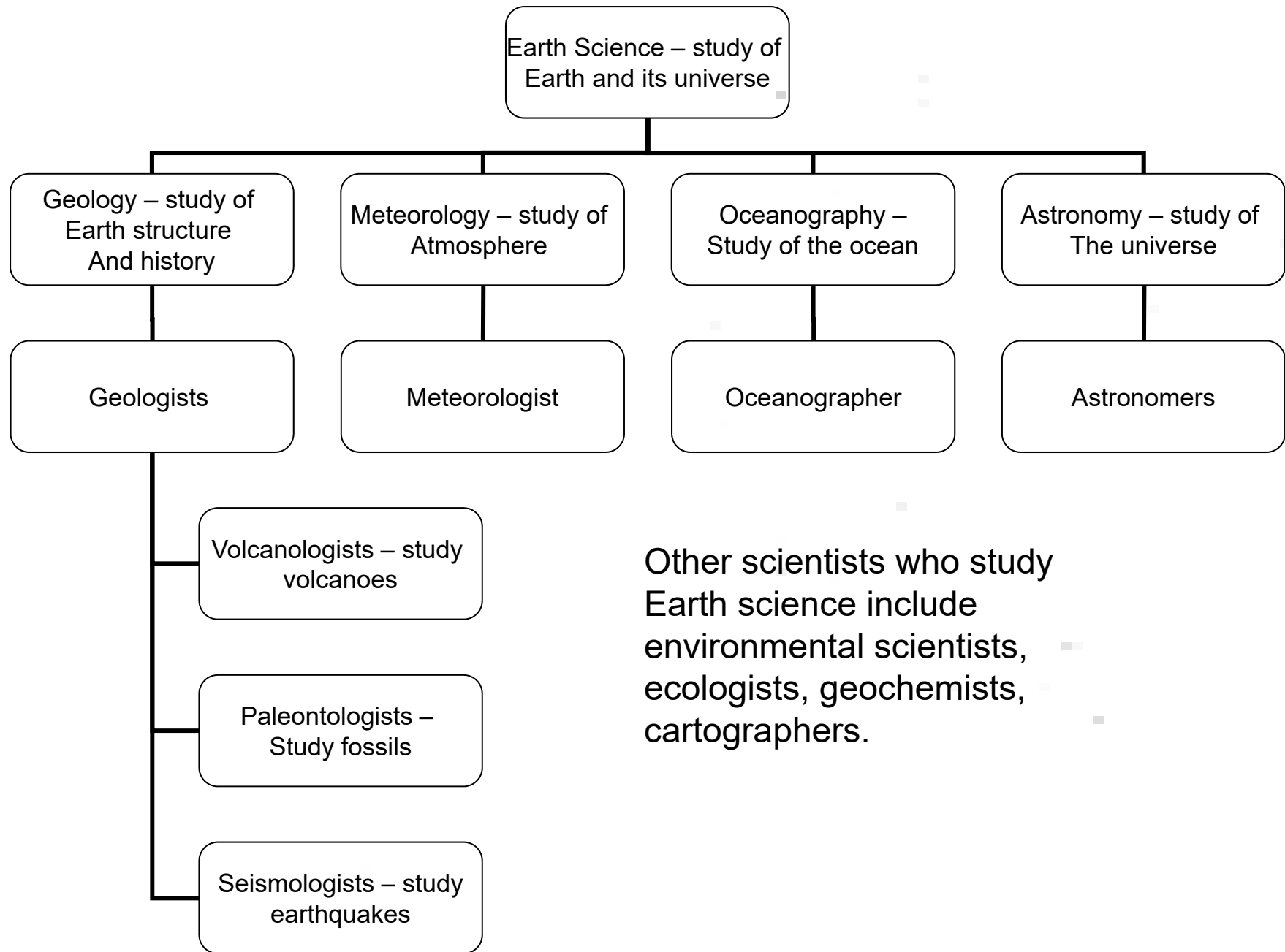


Weather Underground®
wunderground.com

SHIPS INTENSITY MODEL initialized 06 GMT AUG 16 2008

00	24	48	72	96	120	hours
45	60	71	64	68	40	MPH





Other scientists who study Earth science include environmental scientists, ecologists, geochemists, cartographers.

INTERNATIONAL SYSTEM OF UNITS FOR QUANTITATIVE MEASUREMENTS

Measurement	measures	Instrument used	SI unit
Volume	How much space an object takes up	Graduated cylinder/beaker	Cm ³ or liter
Length	How long an object is	Ruler/measuring tape	meter
Mass	The amount of matter in an object	Triple beam balance	grams
Temperature	Amount of heat	thermometer	celcius
Density $D=M/V$	How much matter is in a given space	Graduated cylinder/triple beam balance	g/l or g/cm ³