WEATHER VS. CLIMATE IDENTIFICATION GAME

Department of Environmental Protection
Climate Change Module
Round 1: Photos
100 Points
WEATHER OR CLIMATE?
Climate (desert)
Weather (lightning)
WEATHER OR CLIMATE?
Weather
(snow)
WEATHER OR CLIMATE?
Climate
(the tropics)
Weather
(tornado)
Round 2: Sentences
200 Points
I can’t believe I forgot my umbrella today.
Weather (rain)
WEATHER OR CLIMATE?

The air is so humid today.
Weather
(humidity)
This is my favorite part of the year because it’s warm enough to enjoy the outdoors.
Climate
(seasons - summer)
Tropical fruits cannot grow here because temperatures are not high enough.
Climate
(patterns of atmospheric conditions dictate success of crops)
Mangos cannot grow here because the environment is not suited for them.
Climate
(any climate other than the tropics)
Round 3: Graphs
300 Points
Weather
(snowstorms)
WEATHER OR CLIMATE?

wind map

January 19, 2018
9:37 am EST
(time of forecast download)

top speed: 31.5 mph
average: 8.6 mph

- 1 mph
- 3 mph
- 5 mph
- 10 mph
- 15 mph
- 30 mph
Weather
(wind)
WEATHER OR CLIMATE?
Trick Question

Sea ice has a large impact on the global climate, but is caused by decreasing temperature, which is associated with weather, this map was also taken at one specific point in time, therefore technically it would count as weather.
WEATHER OR CLIMATE?

Change in average precipitation (1986–2005 to 2081–2100)

Climate
(change in precipitation over a relatively long period of time)
WEATHER OR CLIMATE?

Global average surface temperature change (relative to 1986–2005)

Mean over 2081–2100

RCP2.6
RCP4.5
RCP6.0
RCP8.5

Climate

(temperature change over a relatively long period of time)
CONGRATULATIONS TO THE WINNING TEAM!

Count up each team’s score to determine the winner!