Weather Station Wiring

Arduino with WiFi shield on top.

5V connected to the + line in the breadboard.

GND connected to the – line in the breadboard.

RX connected to 18 (TX) in the Mega.

TX connected to 19 (RX) in the Mega.

Breadboard

- Line - : to the GND of the Arduino, GND of the Mega, GND of the CC3000 WiFi shield. 330 Ohm resistor.
- The resistor is connected between the – and 3, an LED between 3 and 2, 2 is connected to 13 of the Mega.
- Line +: to the 5V of the Arduino, to the 5V of the WiFi, the 5V of the Mega.

Mega:

- 5V to the + of the breadboard
- GND to the – of the breadboard.
- Pin 13 to line 2 of the breadboard
- Pin 7 to Pin 7 of the WiFi
- Pin 2 to Pin 2 of the WiFi
- 18 (TX) to the RX of the Arduino
- 19 (RX) to the TX of the Arduino.
- 22 to CS (10) of the WiFi
- 51 to MOSI(11) of the WiFi
- 50 to MISO(12) of the WiFi
- 52 to SCK(13) of the WiFi

WiFi (CC3000)

From the Mega:

- Pin 7 to Pin 7 of the WiFi
- Pin 2 to Pin 2 of the WiFi
- 22 to CS (10) of the WiFi
- 51 to MOSI(11) of the WiFi
- 50 to MISO(12) of the WiFi
- 52 to SCK(13) of the WiFi
- 5V and GND to the readboard.