WeirWeather Group Meeting 17 Minutes
Date: 11:00, Wed 05/02/20   Room: RC473
Minute Taker: Callum Brooksby

1   Attendance

Zack North, Callum Brooksby, Tesfu Gebremedhin, Alexander Ulrichsen, Mario Manca

2   Announcements

Roof access acquired and mounting locations specified.

3   Review Previous Meeting Minutes

The previous meeting's minutes were reviewed and accepted by the group.

4   Actions from Last Meeting

#	Action	Assigned To	Deadline
1	Test GSM Module with ESP32	Zack	In progress
2	Select & Order Enclosure & Mechanical Components	Zack	In progress
3	Create CAD Models of Wind Sensors	Zack & Callum	In progress
4	Testing light sensor with LDR	Tesfu	In progress
5	Design PCB	Tesfu	In progress
6	Connect to MAE Server	Alexander	In progress
7	Alter Historical API for chart requirements	Alexander	Complete
8	Design Anemometer/ Wind vane Base and manufacture method	Callum	Complete
9	Create historical chart display	Callum	Complete
10	Website testing - Web Browsers	Callum	In progress

5   Discussion

- Continued issues connecting to the MAE Server
- Delays in 3D printing due to extreme temperature fluctuation due to printer placement
- Anemometer ready for assembly waiting on ordered parts
- Anemometer assembled need to speak to MAE for small wind tunnel usage/ think of alternative testing method if not available
- Website design complete

- Discuss possible mounting points of AWS
  - Top roof barrier not secured to roof (used weights) and not secure enough
  - Second possible location has solid barrier mounted to roof, high enough to be above top barrier as not to impede readings and not on an external wall.
  - Mounting needs designed (Clamp)
  - Wire tether rope to be used to further secure AWS
  - Need to speak to central services about mounting

6 Actions

#	Action	Assigned To	Deadline
1	Link front end scripts with Historical API	Alexander	12/02/20
2	Selection of 3D printing filament for Anemometer/ Wind Vane	Callum	12/02/20
3	3D printing of anemometer/ wind vane	Callum	12/02/20
4	Website testing on different devices	Callum	12/02/20
5	Website redundancy programming	Callum	19/02/20
6	Research on step procedures of calibration of wind sensor with wind tunnel	Tesfu	12/02/20
7	Calibration Strategies of sensors	Tesfu	12/02/20
8	Send Data to Database from ESP32	Zack	12/02/20
9	Test GSM Module with ESP32	Zack	12/02/20
10	Select & Order Enclosure & Mechanical Components	Zack	12/02/20
11	Create CAD Models of Wind Sensors	Zack & Callum	12/02/20