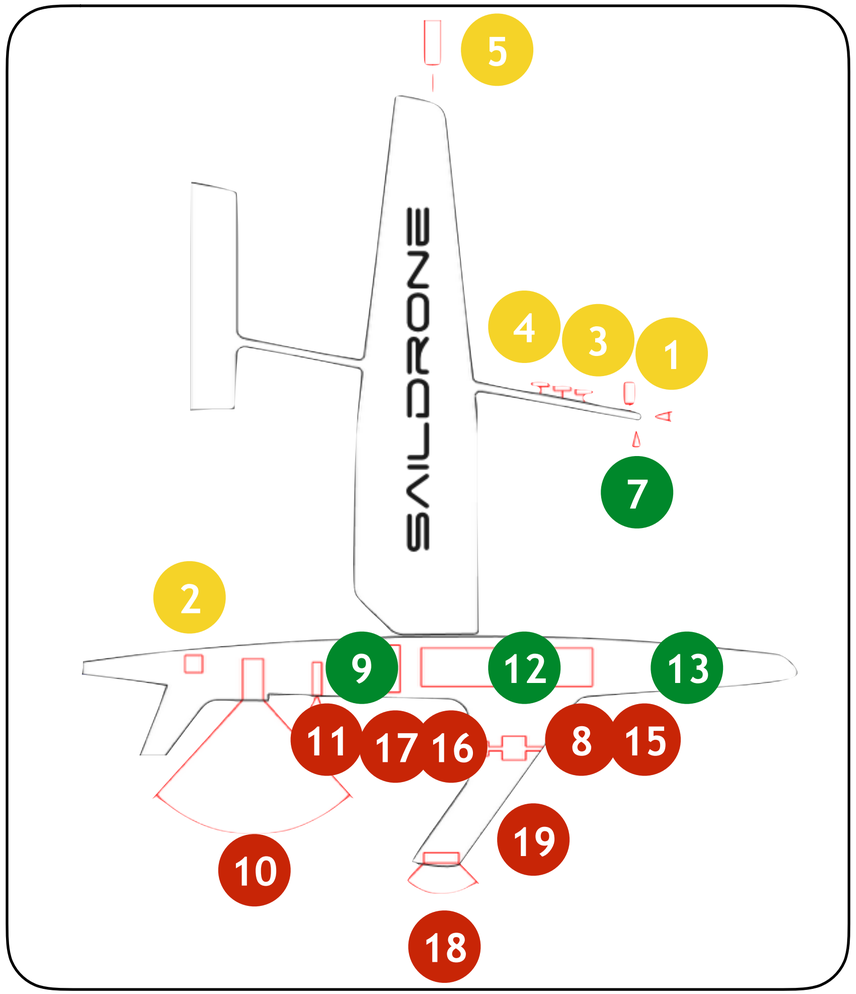
SAILDRONE SENSORS

Atmospheric surface

- Air temperature, Water vapor → **1** — **AT/RH @ +2.2m**, Rotronic HC2 - S3 with rad shield
- Air pressure → **2** — **Barometric Pressure @ +0.2m**, Vaisala PTB210
- Surface radiation → **3** — **S & L wave Radiation @ +2.2m**, Eppley PSP & PIR
- Surface radiation → **4** — **Sunshine Pyrometer @ +2.2m**, Delta-T Devices SPN1
- Wind speed, Wind direction → **5** — **Anemometer @ +4.5m**, Windmaster 3D ultrasonic 20Hz
- Precipitation → **X**



Oceanic surface

- Sea Surface Temp. → **7** — **SST IR Pyrometer @ +2.2m**, Heitronics KT15 II
- Salinity → **8** — **Salinity @ -0.5m**, Seabird SBE-Prawler
- Wave height/period → **9** — **Dual GPS & IMU**, Vectornav / KVH
- Surface Currents → **10** — **ADCP @ -0.2m**, RDI Workhorse 300 kHz
- partial CO2 pressure → **12** — **pCO2 @ -0.5m**, PMEL MAPCO2 system
- Magnetic field → **13** — **Magnetometer @ 0m**, Bartington MAG 648

Oceanic Sub-surface

- Water Temperature, Salinity → **15** — **Thermosalinograph @ -0.5m**, Teledyne Citadel
- Currents → **10** — **ADCP @ -0.2m**, RDI Workhorse 300 kHz
- Partial CO2 → **12** — **pCO2 @ +0.2m**, PMEL MAPCO2 system
- Partial CO2 → **16** — **pH @ -0.5m**, Honeywell Durafet
- Dissolved Oxygen → **17** — **Dissolved Oxygen @ -0.5m**, Aanderaa 4831
- Bio markers → **11** — Chl, CDOM, **Red Backscatter**, Wetlabs Fluro Triplet
- Biomass (fish) → **18** — **WBAT @ -2.5m**, SIMRAD EK 80
- Acoustics (mammals) → **19** — **Passive Acoustic recorder**, Acousonde