**Platform-MMDD (Day Month 2020)**

Responsible Reporting Person

*In the following the italic text should be deleted in favor of the content that it describes, and subsection headings and table entries should be modified according to what is actually happening. File should be named HALO-122 and saved and shared as a pdf, i.e., HALO-0122.pdf*

1. **Objective**

*Brief statement of purpose of flight and the extent it was intended to be coordinated with other platforms. For HALO this likely would be 'Third Research Flight, Standard Circles and NTAS Buoy Excursion flown in conjunction with ATR and P3.’*

1. **Crew**

*These are adapted for HALO, but should be modified for other aircraft.*

B. Stevens (Mission PI), NN (Scientist1), NN (Dropsonde), N.N. (HAMP), N.N (SpecMAC \& SMART), N.N. (WALES), N.N. \& N.N. (Pilots), N.N. (Engineer)

1. **Synoptic Situation**

*A brief statement about the weather, any indication of cloud patterns or unusual features, brief discussion of other platforms with which the flight was being coordinated, if any, and how they related to the measurements.*

1. **Flight Elements**

*Please delete empty table rows, or add additional rows as necessary. Formatting with solid line at the base of the table makes its delineation from the text clearer.*

| Element | (ºN, ºW) | Flight Level (FL) | Time (UTC) | Notes |
| --- | --- | --- | --- | --- |
| Takeoff-Ferry | GAIA | Ascent to 300 | 11:43:27 |  |
| Circle 1 (CW) | (13.95, 53.40) | 300 | 13:07:57  | Ron Brown |
| Circle 2 (CCW)  | (13.30, 53.13) | 300 | 13:56:47  |  |
|  |  |  |  |  |
|  |  |  |  |  |

*Text here should add qualitative overviews of what was selected as major flight elements. The subject headings in bold below are just illustrative. For instance (below I make things up, just for illustration). These elements should refer to the table, no need to be exhaustive, the purpose is to give an overview, particularly regarding those things that differ with respect to the regular pattern.*

**Inter-calibration:** Coordinated leg with ATR at certain region, indicating relative positions of plane, i.e., HALO overflight of ATR and TO along leg ...

**Circle 1:**  Dropped twelve sondes with roughly even spacing, second sonde had difficulies. All instruments working, Shallow cloud field with no signs of precipitation, with more clouds and what appeared to be upper level out-flow associated with a flower in Eastern segment of circle. Surface sea-state had strong coverage of whitecaps, aerosol loading exceptionally low.

**Circle 2:** Maybe mention the number of stations, how deep the casts were, and some basic features, *i.e.,* mixed layer depth, and how it varied.

**Overflights:** Mention where the aircraft was relative to ship.

1. **Instrument Status**

*This can be as brief as: all instruments operational. Again the important thing is to note anomalies from the regular patter, i.e., “lidar down between 14:37 UTC and 18:12 UTC..*

**Radar:** Started at 09:23, no anomalies

**Sondes:** Second sonde of Circle 1 failed.

**And so on …**

1. **Figures**

*Here I would add figures, including photographs from flight-deck or cockpit to augment the other parts of the report. The first figure should show the flight pattern geographically, the second should show flight levels versus time.*

**6. Figures**

*Don’t overdo this, but some standard figures to start with, which one would show every day, would be helpful. For the ships this includes: i) a map showing its location for the 24 hour period; ii) time-series for the 24 hr period showing wind-speed, direction, SST, salinity, surface air (2m) temperature, and 2m Relative Humidity; iii) a few photographs, of sky and sea-state; iv) quick looks of other data as relevant (for instance if there was a dust event, then maybe a time-series of optical depth or some related quantity, If CCN is available this would be great.*