* Software changed: June 7, 2019
* PWB S/N: 408
  + R1 removed
  + Jumper SJ1 set for battery power
* Flight name\mode messages
  + PRE\_MSG "1033\_PRE"
  + TRK\_MSG "1033\_TRK"
  + TRK\_GPS "1033\_GPS"
  + PING\_ID 33
* Timing parameters for the flight
  + PreFlight Time = 2 hours (120 minutes), APRS XMIT every 10 minutes
    - PREFLIGHT\_APRS\_TX\_PERIOD 10
    - MAX\_PREFLIGHT\_PACKETS 12
    - 10\*12 = 120
    - GPS search time: 2 minutes
  + Flight Time = 2 hours
    - FLIGHT\_TIME 120
    - GPS search time: 2 minutes
  + Hibernate\Sleep time
    - Launch: June 8, 2019, Julian Day: 159
    - Wake up: November 16, 2019, Julian Day: 320
    - Number of days to hibernate 320 – 159 = 161
    - HIBERNATE\_PERIOD 166
    - GPS search time: 5 minutes
  + Track mode
    - Update GPS position every 24 hours
      * TRACK\_GPS\_PERIOD 24
    - Send APRS GPS position every 10 minutes when in Track mode
      * TRACK\_APRS\_TX\_PERIOD 10
    - Send pings every 15 seconds when in Track mode
      * TRACK\_PING\_TX\_PERIOD 15
      * Three Audio pings 75 msec at 700 Hz per minute
      * One encoded data ping per minute
    - GPS search time: 3 minutes

**Changes from FLT\_1031**

* None
* Note: FLT 1032 was an ROPC flight and had no VHF tracker

Initial Power up Test

* Five Flashes
* First three messages after power up:

9:22:21, PRE\_\_FLT, 000/001, 0000.00N, 00000.00E

9:33:01, 1033\_PRE, 000/002, 7750.86S, 16639.94E

9:43:02, 1033\_PRE, 000/003, 7750.86S, 16639.94E

* GPS position is correct
  + Crary Lab: 77° 50.86’ (77.847°), 166° 39.94’ (166.665°)

29 May 2019

* Initial Battery Voltage = 3.650V
* Super Capacitor Charge Voltage = 3.690V
* Installed initial battery voltage = 3.664 V
* Battery voltage after initial power on test = 3.583 V

