

July 2, 2014

NO. DIGITAL SONDE CHECKLIST

11-01-14

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 11-6-14
INITIALS: BW
PUMP#: 2227538
1. Run zero air 10 minutes (v)
2. PUMP CURRENT: 93.69 (mA)
3. PUMP PRESSURE: >10 (psi)
4. DMT Press/vac: 30 / 19 (in Hg)
5. Bypass cell (v)
6. Add 5-6cc cathode (v)
7. 30 MINUTES HI O3 (v)
8. 3 MINUTES NO O3 (v)
9. DUMP CATHODE RINSE: (v)
10. ADD 3.0 CC FRESH CATHODE # (v)
11. ADD 1.5 CC ANODE SOLUTION: (v)
12. RUN 10 MINUTES on NO O3 (v)
13. RECORD CURRENT BEFORE O3: BG = 0.188 uA
14. RUN 10 MINS on 5 uA O3 (v) - then switch to NO O3 AIR.
15. RECORD: TIME TO DROP FROM 4 TO 1.5 uA: 39.18 sec.
16. Run sonde for 10 mins on NO O3 (v)
17. RECORD CURRENT: BG = 0.202 uA
18. Short the cell leads: (v)
19. Intake tube stored in sonde frame: (v)
20. Place Sonde inside plastic bag: (v)
21. Store inside Styrofoam flight box: (v)

AFTER 1 WEEK: REPLACE SOLUTIONS: DATE (LOCAL): 11-12-14

- 1. RUN 5 MINS on NO O3 (v)
2. RECORD CURRENT: 0.088 uamps
3. RUN 5 MINS on 5 uamps O3 (v) - then switch to NO O3 AIR
4. RECORD TIME TO DROP FROM 4 TO 1.5 uamps: 27.27 sec
5. Short cell leads and Store in Styrofoam flight box: (v)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 11-22-2014
INITIALS: BW

- 1. Cathode solution # or date written on bottle: May 10, 2014
2. CHANGE CATHODE SOLUTION (3cc): (v)
3. CHANGE ANODE SOLUTION (1.5cc): Yes (Yes/No)
4. RUN ON NO O3 FOR 10 MINUTES: (v)
5. RECORD THE NO O3 BACKGRND#1: BG1 = 0.036 uamps
6. RUN ON 5 microamps of O3 for 10 Minutes: (v)
7. SWITCH TO NO O3 AIR
8. RECORD: DECAY TIME TO DROP FROM 4 TO 1.5 uamps: 24.52 sec
9. RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

Table with flowrate times: ROOM TEMP (C): 22.0, ROOM RH (%): 16, Flowrate Correction: 1.9 (%), FLOWRATE #1-5, AVERAGE T100: 29.29 sec, and a table for dry/wet flowrates.

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HV892
GMT DATE (YYMMDD): 11-22-2014 LOCAL DATE: 11-22-2014
GMT LAUNCH TIME: 7:00 LOCAL TIME: 1:00
Operator Initials: Q1

BALLOON SIZE: Grams: TOTEX Hwoyee PAWAN (v one)
PAY-OFF-WEIGHT: Grams: Burst Alt: (km) Turn/Burst:

O3 sn: O3 CELL BACKGROUND (uamps): O3 Ventilation Holes:
O3 Flowrate: (sec) O3 Flowrate Correction: (%)

Radiosonde sn: Freq: (MHz)

NOAA FPH sn: (if using Frost Point Hygrometer.)

SURFACE PRES: (hPa)
SURFACE TEMP: (C)
SURFACE RH: (%)

Sky Conditions:

REMARKS: Be careful: the tube is not very stable.