

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 12-3-14 1. Run zero air 10 minutes  (✓) 5. Bypass cell  (✓)
- INITIALS: BW 2. PUMP CURRENT: 97.83 (mA) 6. Add 5-6cc cathode  (✓)
- PUMP#: 2826325 3. PUMP PRESSURE: >10 (psi) 7. 30 MINUTES HI O<sub>3</sub>  (✓)
4. DMT Press/vac: 28 / 20 (in Hg) 8. 3 MINUTES NO O<sub>3</sub>  (✓)
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9. DUMP CATHODE RINSE:  (✓) 16. Run sonde for 10 mins on NO O<sub>3</sub>  (✓)
10. ADD 3.0 CC FRESH CATHODE #  17. RECORD CURRENT: BG = 0.132 uA
11. ADD 1.5 CC ANODE SOLUTION:  (✓) 18. Short the cell leads:  (✓)
12. RUN 10 MINUTES on NO O<sub>3</sub>  (✓) 19. Intake tube stored in sonde frame:  (✓)
13. RECORD CURRENT BEFORE O<sub>3</sub>: BG = 0.069 uA 20. Place Sonde inside plastic bag:  (✓)
14. RUN 10 MINS on 5 uA O<sub>3</sub>  (✓) - then switch to NO O<sub>3</sub> AIR. 21. Store inside Styrofoam flight box:  (✓)
15. RECORD: TIME TO DROP FROM 4 TO 1.5 uA: 31.55 sec.

AFTER 1 WEEK: REPLACE SOLUTIONS: DATE (LOCAL):                     

1. RUN 5 MINS on NO O<sub>3</sub>  (✓) 3. RUN 5 MINS on 5 uamps O<sub>3</sub>  (✓) - then switch to NO O<sub>3</sub> AIR
2. RECORD CURRENT: .028 uamps 4. RECORD TIME TO DROP FROM 4 TO 1.5 uamps: 12.22 sec
5. Short cell leads and Store in Styrofoam flight box:  (✓)

FLIGHT PREPARATION IN LAB.

- DATE (LOCAL): 12-20-14 T100 FLOWRATE TIMES:  
INITIALS: cvc ROOM TEMP (C): 20.8, ROOM RH (%): 17
1. Cathode solution # or date written on bottle: 245 Flowrate Correction: 2 (%)
2. CHANGE CATHODE SOLUTION (3cc):  (✓) FLOWRATE #1: 28.86 sec
3. CHANGE ANODE SOLUTION (1.5cc):  (Yes/No) FLOWRATE #2: 28.83 sec
4. RUN ON NO O<sub>3</sub> FOR 10 MINUTES:  (✓) FLOWRATE #3: 28.93 sec
5. RECORD THE NO O<sub>3</sub> BACKGRND#1: BG1 = .011 uamps FLOWRATE #4: 28.86 sec
6. RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (✓) FLOWRATE #5: 28.86 sec
7. SWITCH TO NO O<sub>3</sub> AIR AVERAGE T100: 28.868 sec
8. RECORD: DECAY TIME TO DROP FROM 4 TO 1.5 uamps: 24.31 sec
9. RECORD: 5 - T100 FLOWRATE TIMES:
- |    |       |       |       |        |
|----|-------|-------|-------|--------|
| wt | 29.00 | 28.98 | 29.16 | 29.047 |
| dy | 28.47 | 28.48 | 28.49 | 28.48  |

DAY OF FLIGHT @ THE LAUNCH SITE.

- FLIGHT NUMBER: HU896
- GMT DATE (YYMMDD): 12-20-14 LOCAL DATE: 12-20-14
- GMT LAUNCH TIME: 7:00 LOCAL TIME: 1:00
- Operator Initials: cvc
- BALLOON SIZE: 1200 Grams: TOTEX            Hwoyee            PAWAN            (✓ one)
- PAY-OFF-WEIGHT:            Grams: Burst Alt:            (km) Turn/Burst:
- O<sub>3</sub> sn: 2826325 O<sub>3</sub> CELL BACKGROUND (uamps): .011 uamps O<sub>3</sub> Ventilation Holes: N
- O<sub>3</sub> Flowrate: 28.868 (sec) O<sub>3</sub> Flowrate Correction: 2 (%)
- Radiosonde sn: 28935 Freq: 403 (MHz)

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

SURFACE PRES:            (hPa)

SURFACE TEMP:            (C)

SURFACE RH:            (%)

Sky Conditions:           

REMARKS: