

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 10/11/2014
 INITIALS: QJ
 PUMP#: 2227544
1. Run zero air 10 minutes (✓)
 2. PUMP CURRENT: 90.74 (mA)
 3. PUMP PRESSURE: 710 (psi)
 4. DMT Press/vac: 30.120 (in Hg)
 5. Bypass cell (✓)
 6. Add 5-6cc cathode (✓)
 7. 30 MINUTES HI O₃ (✓)
 8. 3 MINUTES NO O₃ (✓)
 9. DUMP CATHODE RINSE: (✓)
 10. ADD 3.0 CC FRESH CATHODE # (✓)
 11. ADD 1.5 CC ANODE SOLUTION: (✓)
 12. RUN 10 MINUTES on NO O₃ (✓)
 13. RECORD CURRENT BEFORE O₃: BG = 0.199 μ A
 14. RUN 10 MINS on 5 μ A O₃ (✓) - then switch to NO O₃ AIR.
 15. RECORD: TIME TO DROP FROM 4 TO 1.5 μ A: 37.43 sec.
 16. Run sonde for 10 mins on NO O₃ (✓)
 17. RECORD CURRENT: BG = 0.225 μ A
 18. Short the cell leads: (✓)
 19. Intake tube stored in sonde frame: (✓)
 20. Place Sonde inside plastic bag: (✓)
 21. Store inside Styrofoam flight box: (✓)

AFTER 1 WEEK: REPLACE SOLUTIONS: DATE (LOCAL): 10/8/14

1. RUN 5 MINS on NO O₃ (✓)
2. RECORD CURRENT: 0.072 μ amps
3. RUN 5 MINS on 5 μ amps O₃ (✓) - then switch to NO O₃ AIR
4. RECORD TIME TO DROP FROM 4 TO 1.5 μ amps: 24.29 sec
5. Short cell leads and Store in Styrofoam flight box: (✓)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 10/18/2014
INITIALS: BW

1. Cathode solution # or date written on bottle: May 10, 2014
2. CHANGE CATHODE SOLUTION (3cc): (✓)
3. CHANGE ANODE SOLUTION (1.5cc): Yes (Yes/No)
4. RUN ON NO O₃ FOR 10 MINUTES: (✓)
5. RECORD THE NO O₃ BACKGRND#1: BG1 = 0.027 μ amps
6. RUN ON 5 microamps of O₃ for 10 Minutes: (✓)
7. SWITCH TO NO O₃ AIR
8. RECORD: DECAY TIME TO DROP FROM 4 TO 1.5 μ amps: 24.84 sec
9. RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 22.7 ROOM RH (%): 35
 Flowrate Correction: 1.5 (%)
 FLOWRATE #1: 29.44 sec
 FLOWRATE #2: 29.43 sec
 FLOWRATE #3: 29.50 sec
 FLOWRATE #4: 29.49 sec
 FLOWRATE #5: 29.54 sec
 AVERAGE T100: 29.48 sec
wch | 28.66 | 28.74 | 28.61 | 28.67
o.j | 28.35 | 28.19 | 28.15 | 28.26

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU887

GMT DATE (YYMMDD): 10/18/14 LOCAL DATE: 10/18/14

GMT LAUNCH TIME: 6:15 LOCAL TIME: 13:15

Operator Initials: QJ

BALLOON SIZE: 1200 Grams: TOTEX _____ Hwoyee PAWAN _____ (✓ one)

PAY-OFF-WEIGHT: _____ Grams: Burst Alt: _____ (km) Turn/Burst: _____

O₃ sn: 2227544 O₃ CELL BACKGROUND (μ amps): _____ O₃ Ventilation Holes: _____

O₃ Flowrate: _____ (sec) O₃ Flowrate Correction: _____ (%)

Radiosonde sn: 28326 Freq: 407 (MHz)

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

SURFACE PRES: _____ (hPa)

SURFACE TEMP: _____ (C)

SURFACE RH: _____ (%)

Sky Conditions: _____

REMARKS: _____