

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 11/19/15
INITIALS: RWS
PUMP#: 2129162
1. Run zero air 10 minutes (✓)
 2. PUMP CURRENT: 98.83 (mA)
 3. PUMP PRESSURE: 711 (psi)
 4. DMT Press/vac: 28/20 (in Hg)
 5. Bypass cell (✓)
 6. Add 5-6cc cathode (✓)
 7. 30 MINUTES HI O₃ (✓)
 8. 3 MINUTES NO O₃ (✓)
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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 = 0.209 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: 39.19 sec.
 16. Run sonde for 10 mins on NO O₃ (✓)
 17. RECORD CURRENT: BG = 0.198 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): 11/28

1. RUN 5 MINS on NO O₃ (✓)
2. RECORD CURRENT: 0.79 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: 25.77 sec
5. Short cell leads and Store in Styrofoam flight box: (✓)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 11/28
INITIALS: RWS

1. Cathode solution # or date written on bottle: 261
2. CHANGE CATHODE SOLUTION (3cc): (✓)
3. CHANGE ANODE SOLUTION (1.5cc): (Yes/No)
4. RUN ON NO O₃ FOR 10 MINUTES: (✓)
5. RECORD THE NO O₃ BACKGRND#1: BG1 = 0.058 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: 24.98 sec
9. RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 20.5, ROOM RH (%): 50

Flowrate Correction: 1.108 (%)
FLOWRATE #1: 29.55 sec
FLOWRATE #2: 29.75 sec
FLOWRATE #3: 29.64 sec
FLOWRATE #4: 29.61 sec
FLOWRATE #5: 29.73 sec

AVERAGE T100: 29.656 sec ^{avg}

Dry	27.99	28.10	27.81	27.97
Wet	28.26	28.17	28.4	28.26

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU945

GMT DATE (YYMMDD): 11/28/15

LOCAL DATE: 11/28/15

GMT LAUNCH TIME: 13:01

LOCAL TIME: 1:01 PM

Operator Initials: RWS

BALLOON SIZE: 1200 Grams:

TOTEX Hwoyee

PAWAN (✓ one)

PAY-OFF-WEIGHT: _____ Grams:

Burst Alt: 35.2 (km)

Turn/Burst: _____

O₃ sn: _____

O₃ CELL BACKGROUND (μ amps): 0.058

O₃ Ventilation Holes: 1

O₃ Flowrate: 29.656 (sec)

O₃ Flowrate Correction: 1.108 (%)

Radiosonde sn: 37717 Freq: 403 (MHz)

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

SURFACE PRES: _____ (hPa)

SURFACE TEMP: _____ (C)

SURFACE RH: _____ (%)

Sky Conditions: _____

REMARKS: _____