

July 2, 2014

U.S. DEPT. OF COI
NOAA Earth System Resea.
DIGITAL OZONESONDE CHECKLIST

FLT # H0948

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 12/2/2015
INITIALS: NL
PUMP#: 2279163
1. Run zero air 10 minutes (✓)
 2. PUMP CURRENT: 106.34 (mA)
 3. PUMP PRESSURE: 211 (psi)
 4. DMT Press/vac: 28/30 (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 # 261
 11. ADD 1.5 CC ANODE SOLUTION: (✓)
 12. RUN 10 MINUTES on NO O₃ (✓)
 13. RECORD CURRENT BEFORE O₃: BG = 163 μA
 14. RUN 10 MINS on 5 μA O₃ (✓) - then switch to NO O₃ AIR.
 15. RECORD: TIME TO DROP FROM 4 TO 1.5 μA: 38.27 sec.
 16. Run sonde for 10 mins on NO O₃ (✓)
 17. RECORD CURRENT: BG = 202 uA
 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): 12/10/2015

1. RUN 5 MINS on NO O₃ (✓)
2. RECORD CURRENT: 0.50 μamps
3. RUN 5 MINS on 5 μamps O₃ (✓) - then switch to NO O₃ AIR
4. RECORD TIME TO DROP FROM 4 TO 1.5 μamps: 25.37 sec
5. Short cell leads and Store in Styrofoam flight box: (✓)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 12/10/2015
INITIALS: NL

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 = 0.23 μamps
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 μamps: 25.23 sec
9. RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 19.8, ROOM RH (%): 21
Flowrate Correction: 3.08 (%)
FLOWRATE #1: 29.07 sec
FLOWRATE #2: 29.69 sec
FLOWRATE #3: 29.49 sec
FLOWRATE #4: 29.59 sec
FLOWRATE #5: 29.59 sec
AVERAGE T100: 29.57 sec Avg
Dry 27.81 | 27.83 | 28.00 | 27.91
Wet 28.82 | 28.73 | 28.76 | 28.77

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: H0948
GMT DATE (YYMMDD): 12/10/2015 LOCAL DATE: 12/10/2015
GMT LAUNCH TIME: 6:00pm LOCAL TIME: 1:00pm

Operator Initials: _____
BALLOON SIZE: 1200 Grams: TOTEX _____ Hwoyee _____ PAWAN _____ (✓ one)
PAY-OFF-WEIGHT: _____ Grams: Burst Alt: N/A (km) Turn/Burst: _____

O₃ sn: _____ O₃ CELL BACKGROUND (μamps): _____ O₃ Ventilation Holes: _____
O₃ Flowrate: _____ (sec) O₃ Flowrate Correction: _____ (%)
Radiosonde sn: 26052 Freq: 403 (MHz)

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

SURFACE PRES: 1007.6 (hPa)
SURFACE TEMP: 10.2 (C)
SURFACE RH: 41.2 (%)

Sky Conditions: Clear

102.6
26.573

REMARKS: _____