

July 2, 2014

U.S. DEPT. OF COMMERCE
NOAA Earth System Research Lab
DIGITAL OZONESONDE CHECKLIST

FLT # FW 890**INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.**

DATE (LOCAL): 10-24-14
INITIALS: CAC
PUMP#: 2426 313

1. Run zero air 10 minutes ✓ (✓)
2. PUMP CURRENT: 87.46 (mA)
3. PUMP PRESSURE: 710 (psi)
4. DMT Press/vac: 31 / 20 (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 # 245
11. ADD 1.5 CC ANODE SOLUTION: ✓ (✓)
12. RUN 10 MINUTES on NO O₃ ✓ (✓)
13. RECORD CURRENT BEFORE O₃: BG = 046 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: 21.97 sec.

16. Run sonde for 10 mins on NO O₃ ✓ (✓)
17. RECORD CURRENT: BG = .101 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): 10/30/14

1. RUN 5 MINS on NO O₃ ✓ (✓)
2. RECORD CURRENT: 0.030 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: 21.72 sec
5. Short cell leads and Store in Styrofoam flight box: ✓ (✓)

FLIGHT PREPARATION IN LAB.DATE (LOCAL): 11-8-14INITIALS: 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 = 0.008 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: 21.23 sec
9. RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:ROOM TEMP (C): 22.5, ROOM RH (%): 19Flowrate Correction: 3.4 (%)FLOWRATE #1: 28.12 secFLOWRATE #2: 28.22 secFLOWRATE #3: 28.25 secFLOWRATE #4: 28.17 secFLOWRATE #5: 28.21 sec

AVERAGE T100: 28.19 sec Average
dry 28.12 28.20 28.43 28.25
wet 29.14 29.19 29.29 29.21

DAY OF FLIGHT @ THE LAUNCH SITE.FLIGHT NUMBER: H0890GMT DATE (YYMMDD): 11-8-14LOCAL DATE: 11-8-14GMT LAUNCH TIME: 7:08LOCAL TIME: 1:08

Operator Initials: _____

BALLOON SIZE: 1200 Grams:

TOTEX _____ Hwoyee _____

PAWAN _____ (✓ one)

PAY-OFF-WEIGHT: _____ Grams:

Burst Alt: _____ (km)

Turn/Burst: _____

O₃ sn: 2826313O₃ CELL BACKGROUND (μ amps): 0.008O₃ Ventilation Holes: _____O₃ Flowrate: _____ (sec)O₃ Flowrate Correction: 3.4 (%)Radiosonde sn: 28928 Freq: 403 (MHz)

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

SURFACE PRES: _____ (hPa)

SURFACE TEMP: _____ (C)

SURFACE RH: _____ (%)

Sky Conditions: _____

REMARKS: _____