U.S. DEPT. OF COMMERCE
NOAA Earth System Research Lab

Seacions August 2013 — **DIGITAL OZONESONDE CHECKLIST** — FLT # 44831

INITIAL PREPARATION ~7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 9/18/2013
INITIALS: WTC
PUMP# (add x,y,z,R): 27-22235

1. Run zero air 10 minutes (√)
2. PUMP CURRENT: .9487
3. PUMP PRESSURE: 211
4. ENSCI Press/vac: 30/20 in Hg
5. Bypass cell (√)
6. Add 5-6cc cathode
7. 30 MINUTES HI O_3 (√)
8. 3 MINUTES NO O_3 (√)

9. DUMP CATHODE RINSE: (√)
10. ADD 3.0 CC FRESH CATHODE #
11. ADD 1.5 CC ANODE SOLUTION: (√)
12. RUN 10 MINUTES on NO O_3 (√)
13. RECORD CURRENT: **BG** = 0.221 µamps
14. RUN 10 MINUTES on 5 µamps O_3 (√) - then switch to NO O_3 AIR.
15. **RECORD:** TIME TO DROP FROM 4 TO 1.5 µamps: 42.59 sec.
16. Run sonde for 10 minutes on NO O_3 AIR (√)
17. Short the cell leads: (√)
18. Intake tube stored in sonde frame: (√)
19. Place Instrument inside plastic bag: (√)
20. Store inside Styrofoam flight box: (√)

2-5 DAYS AFTER INITIAL PREP: REPLACE SOLUTIONS: DATE (LOCAL): 9/23/2013

1. Replace Cathode/Anode (√)
2. RUN 5 MINS on NO O_3 (√)
3. RECORD CURRENT: 0.049 µamps
4. RUN 5 MINS on 5 µamps O_3 (√)
5. Switch to NO O_3 AIR
6. RECORD TIME TO DROP FROM 4 TO 1.5 µamps: 27.93 sec
7. RUN 5 MINS on NO O_3 (√)
8. Short cell leads (√)
9. Store inside Styrofoam flight box: (√)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 9/24/2013
INITIALS: WTC

1. Cathode solution # or date written on bottle: 239
2. CHANGE CATHODE SOLUTION (3cc): (√)
3. CHANGE ANODE SOLUTION (1.5cc): (Yes/No)
4. RUN ON NO O_3 FOR 10 MINUTES: (√)
5. RECORD THE NO O_3 BACKGRND#1: **BG1**= 0.051 µamps
6. RUN ON 5 microamps of O_3 for 10 Minutes: (√)
7. SWITCH TO NO O_3 AIR.
8. **RECORD:** THE TIME TO DROP FROM 4 TO 1.5 µamps: 45.72 sec
9. **RECORD:** 5 – T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 24, ROOM RH (%): 39
Flowrate Correction: 2.19 (%)

FLOWRATE #1: 29.23 sec
FLOWRATE #2: 29.18 sec
FLOWRATE #3: 29.14 sec
FLOWRATE #4: 29.10 sec
FLOWRATE #5: 29.12 sec
AVERAGE T100: 29.15 sec

Wet
29.
29.
29.
29.
Dry
28.6
28.7
28.7
28.

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: 44831
GMT DATE (YYMMDD): 130924 — LOCAL DATE: 130924
GMT LAUNCH TIME: 20:06 — LOCAL TIME: 15:06
Operator Initials: WC
BALLOON SIZE: 1200 Grams: TOTEX ___ Hwoyee (√ one)
PAY-OFF-WEIGHT: 1700 Grams: Burst Alt: 36 (km)

O_3 sn: 27 22235 — O_3 CELL BACKGROUND (µamps): 0.051
O_3 Flowrate: 29.15 (sec) — O_3 Flowrate Correction: 2.19 (%)

Radiosonde s/n: S1740[illegible] Freq: 403 (MHz)

SURFACE PRES: 988 (hPa)
SURFACE TEMP: ___ (C)
SURFACE RH: ___ (%)
Sky Conditions: ___
REMARKS: ___