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

Seacions August 2013 **DIGITAL OZONESONDE CHECKLIST** FLT# HU800

INITIAL PREPARATION ~7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 7/31/2013
INITIALS: NLP WTC
PUMP# (add x,y,z,R): 2224747

1. Run zero air 10 minutes ✓(√)
2. PUMP CURRENT: 91.15
3. PUMP PRESSURE: 711
4. ENSCI Press/vac: 28/19 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** = 0.091 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: 30.02 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): 8/7/2013

1. Replace Cathode/Anode ✓(√)
2. RUN 5 MINS on NO O_3 ✓(√)
3. RECORD CURRENT: 0.055 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: 23.62 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): 08/09/2013
INITIALS: NLP

1. Cathode solution # or date written on bottle: #230
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**= 0.038 µamps
6. RUN ON 5 microamps of O_3 for 10 Minutes: ~~22.24~~ (√) ✓
7. SWITCH TO NO O_3 AIR.
8. **RECORD:** THE TIME TO DROP FROM 4 TO 1.5 µamps: 22.24 sec
9. **RECORD:** 5 – T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 24, ROOM RH (%): 42
Flowrate Correction: 2.34 (%)
FLOWRATE #1: 27.11 sec
FLOWRATE #2: 27.13 sec
FLOWRATE #3: 27.30 sec
FLOWRATE #4: 27.32 sec
FLOWRATE #5: 27.41 sec
AVERAGE T100: 27.25 **sec**

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU800
GMT DATE (YYMMDD): 08/09/2013 LOCAL DATE: 08/09/2013
GMT LAUNCH TIME: 18:10 LOCAL TIME: 13:10
Operator Initials: NP
BALLOON SIZE: 1200 Grams: TOTEX ___ Hwoyee ✓ (√ one)
PAY-OFF-WEIGHT: ~~3 lb 12 oz~~ Grams: 1700 Burst Alt: 33.7 (km)

O_3 sn: 2224747 **O_3 CELL BACKGROUND (µamps):** 0.038
O_3 Flowrate: 27.25 (sec) **O_3 Flowrate Correction:** 2.34 (%)

Radiosonde s/n: 17448 Freq: 402 (MHz)

SURFACE PRES: 992 (hPa)
SURFACE TEMP: 32 (C)
SURFACE RH: 50 (%)
Sky Conditions: Partly Cloudy
REMARKS: