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

FLT # HU 854

January 2014 NEW

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

DATE (LOCAL): 02/15/2014
INITIALS: NLP
PUMP# (add x,y,z,R): 2224679

1. Run zero air 10 minutes ✓ (√)
2. PUMP CURRENT: >10
3. PUMP PRESSURE: 18
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** = 0.248 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: 45.93 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: ✓ (√)

AFTER 1 WEEK: REPLACE SOLUTIONS: DATE (LOCAL): 02/28/2014

1. RUN 5 MINS on NO O_3 ✓ (√)
2. RECORD CURRENT: 0.122 µamps
3. RUN 5 MINS on 5 µamps O_3 ✓ (√) – then switch to NO O_3 AIR
4. RECORD TIME TO DROP FROM 4 TO 1.5 µamps: 38.87 sec
5. Short cell leads and Store in Styrofoam flight box: ✓ (√)

FLIGHT PREPARATION IN LAB. (Under 24 hours to launch)

DATE (LOCAL): 03/01/2014
INITIALS: NLP

ROOM TEMP (C): 19.4, ROOM RH (%): 21
Flowrate Correction: 1.35 (%)

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**= 0.042 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: 28.15 sec
9. **RECORD:** 5 – T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

FLOWRATE #1: 30.49 sec
FLOWRATE #2: 30.96 sec
FLOWRATE #3: 30.27 sec
FLOWRATE #4: 30.88 sec
FLOWRATE #5: 30.76 sec
AVERAGE T100: 30.67 **sec**

DAY OF FLIGHT @ THE LAUNCH SITE.

Results: O_3 Sonde TCO extrap: _____ (DU)
O_3 Sonde TCO SBUV: _____ (DU)

FLIGHT NUMBER: HU 854
GMT DATE (YYMMDD): 03/01/2014 LOCAL DATE: 03/01/2014
GMT LAUNCH TIME: 19:00 LOCAL TIME: 13:00
Operator Initials: NLP

BALLOON SIZE: 1200 Grams: TOTEX ___ Hwoyee ✓ PAWAN ___ (√ one)
PAY-OFF-WEIGHT: 1700 Grams: Burst Alt: 35.02 (km) Turn/Burst: ____

O_3 sn: 2224679 **O_3 CELL BACKGROUND (µamps):** 0.042 O_3 Ventilation Holes: (Y/N) I
O_3 Flowrate: 30.67 **(sec)** **O_3 Flowrate Correction:** 1.35 **(%)**
Radiosonde #: 20997 Freq: 403 (MHz) If Vais **RS-80,** Pressure offset written on bag: _____ (hPa)
NOAA FPH sn: _____
Other instruments: _____

SURFACE PRES: 992.5 (hPa)
SURFACE TEMP: 12.7 (C)
SURFACE RH: 17.6 (%)
Sky Conditions: _____
REMARKS: _____