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

FLT # HV 877

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

DATE (LOCAL): 12-23-14
INITIALS: BW
PUMP#: 2327980

1. Run zero air 10 minutes ✓ (√)
2. **PUMP CURRENT:** 93.65 **(mA)**
3. **PUMP PRESSURE:** >10 **(psi)**
4. **DMT Press/vac:** 26 / 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 BEFORE O3: BG =** 0.161 **µA**
14. RUN 10 MINS on 5 µA O_3 ✓ (√) - then switch to NO O_3 AIR.
15. **RECORD: TIME TO DROP FROM 4 TO 1.5 µA:** 40.06 **sec.**
16. Run sonde for 10 mins on NO O_3 ✓ (√)
17. **RECORD CURRENT: BG =** 0.185 **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): 1-1-15

1. RUN 5 MINS on NO O_3 ✓ (√)
2. RECORD CURRENT: 0.073 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: 24.83 sec
5. Short cell leads and Store in Styrofoam flight box: ~~24.83~~ (√) ✓

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 1-10-15
INITIALS: BW

1. Cathode solution # or date written on bottle: Dec 1, 2014
2. CHANGE CATHODE SOLUTION (3cc): ✓ (√)
3. CHANGE ANODE SOLUTION (1.5cc): Yes (Yes/No)
4. RUN ON NO O_3 FOR 10 MINUTES: ✓ (√)
5. RECORD THE NO O_3 BACKGRND#1: BG1= 0.027 µamps
6. RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)
7. SWITCH TO NO O_3 AIR
8. **RECORD:** DECAY TIME TO DROP FROM 4 TO 1.5 µamps: 25.67 sec
9. **RECORD:** 5 – T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 16.1, ROOM RH (%): 11
Flowrate Correction: 4.0 (%)
FLOWRATE #1: 29.26 sec
FLOWRATE #2: 29.31 sec
FLOWRATE #3: 29.24 sec
FLOWRATE #4: 29.27 sec
FLOWRATE #5: 29.37 sec
AVERAGE T100: 29.29 sec

				average
dry	28.00	27.99	28.02	28.00
wet	29.15	29.06	29.19	29.13

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: _____
GMT DATE (YYMMDD): 1-10-2014 LOCAL DATE: 1-10-2014
GMT LAUNCH TIME: 6:58 LOCAL TIME: 12:58
Operator Initials: BJ
BALLOON SIZE: _____ Grams: TOTEX ____ Hwoyee ____ PAWAN ____ (√ one)
PAY-OFF-WEIGHT: _____ Grams: Burst Alt: _____ (km) Turn/Burst: _____

O_3 sn: _____ **O_3 CELL BACKGROUND (µamps):** _____ O_3 Ventilation Holes: _____
O_3 Flowrate: _____ **(sec)** **O_3 Flowrate Correction:** _____ **(%)**

Radiosonde sn: _____ Freq: _____ (MHz)

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

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