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

FLT # 4U910

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

DATE (LOCAL): 3-12-15
INITIALS: CMC
PUMP#: 2728109

1. Run zero air 10 minutes ____ (√) 38
2. PUMP CURRENT: 97 (mA)
3. PUMP PRESSURE: 210 (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 # 251
11. ADD 1.5 CC ANODE SOLUTION: ✓ (√)
12. RUN 10 MINUTES on NO O_3 ✓ (√)
13. **RECORD CURRENT BEFORE O3: BG =** .229 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:** 44.87 **sec.**
16. Run sonde for 10 mins on NO O_3 ✓ (√)
17. **RECORD CURRENT: BG =** -.207 **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): 3-18-15

1. RUN 5 MINS on NO O_3 ✓ (√)
2. RECORD CURRENT: 0.096 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: 24.81 sec
5. Short cell leads and Store in Styrofoam flight box: ✓ (√)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 3-28-15
INITIALS: CMC

1. Cathode solution # or date written on bottle: 251
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= .034 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: 26.34 sec
9. **RECORD:** 5 – T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 15.9, ROOM RH (%): 18
Flowrate Correction: 2.21 (%)
FLOWRATE #1: 29.22 sec
FLOWRATE #2: 29.23 sec
FLOWRATE #3: 29.23 sec
FLOWRATE #4: 29.32 sec
FLOWRATE #5: 29.13 sec
AVERAGE T100: 29.226 sec

				avg
wet	29.16	29.19	29.27	29.19
dry	28.58	28.50	28.60	28.56

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: _____
GMT DATE (YYMMDD): _____ LOCAL DATE: _____
GMT LAUNCH TIME: _____ LOCAL TIME: _____
Operator Initials: _____
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: 28913 Freq: _____ (MHz)

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

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