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

FLT # HV898

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

DATE (LOCAL): 10/17/14
INITIALS: CLC
PUMP#: 2226322

1. Run zero air 10 minutes ____ (√)
2. **PUMP CURRENT:** 86.43 **(mA)**
3. **PUMP PRESSURE:** >10 **(psi)**
4. **DMT Press/vac:** 26 / 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 # 245
11. ADD 1.5 CC ANODE SOLUTION: ✓ (√)
12. RUN 10 MINUTES on NO O_3 ✓ (√)
13. **RECORD CURRENT BEFORE O3: BG =** .074 **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:** 39.19 **sec.**
16. Run sonde for 10 mins on NO O_3 ✓ (√)
17. **RECORD CURRENT: BG =** .090 **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): 12-27-14

1. RUN 5 MINS on NO O_3 ✓ (√)
2. RECORD CURRENT: 0.030 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: 30.68 sec
5. Short cell leads and Store in Styrofoam flight box: ✓ (√)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 1-3-15
INITIALS: CLC

1. Cathode solution # or date written on bottle: 245
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= .015 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: 28.19 sec
9. **RECORD:** 5 – T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 22.7, ROOM RH (%): 31
Flowrate Correction: 2.7 (%)
FLOWRATE #1: 28.91 sec
FLOWRATE #2: 28.99 sec
FLOWRATE #3: 28.96 sec
FLOWRATE #4: 28.96 sec
FLOWRATE #5: 28.88 sec
AVERAGE T100: 28.94 sec

wet	28.99	28.89	28.96	29.013
dry	28.29	28.27	28.17	28.243

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HV898
GMT DATE (YYMMDD): 150103 LOCAL DATE: 1-3-15
GMT LAUNCH TIME: 7:35 LOCAL TIME: 1:30
Operator Initials: CLC
BALLOON SIZE: 1200 Grams: TOTEX ____ Hwoyee ____ PAWAN ____ (√ one)
PAY-OFF-WEIGHT: ____ Grams: Burst Alt: ____ (km) Turn/Burst: ____

O_3 sn: 2226322 **O_3 CELL BACKGROUND (µamps):** 28.94 O_3 Ventilation Holes: N
O_3 Flowrate: 28.94 **(sec)** **O_3 Flowrate Correction:** 2.7 **(%)**
Radiosonde sn: 29106 Freq: 403 (MHz)

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

SURFACE PRES: 989.7 (hPa)
SURFACE TEMP: 15.1 (C)
SURFACE RH: 93.5 (%)
Sky Conditions: This sonde is (10/17/14. Since it is put in the cabinet. I did the second part in (12/27/14
REMARKS:) It might be not available for a flight for the time difference
If was rainy today.