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

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

FLT # HU926

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

DATE (LOCAL): 7/2/15
INITIALS: CLC
PUMP#: 2Z27861

1. Run zero air 10 minutes √ (√)
2. **PUMP CURRENT:** 99.83 (mA)
3. **PUMP PRESSURE:** 710 (psi)
4. **DMT Press/vac:** ____/____ (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 # 258
11. ADD 1.5 CC ANODE SOLUTION: √ (√)
12. RUN 10 MINUTES on NO O_3 √ (√)
13. **RECORD CURRENT BEFORE O3: BG =** .154 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:** 31.22 sec.
16. Run sonde for 10 mins on NO O_3 √ (√)
17. **RECORD CURRENT: BG =** .237 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): 7/9/15

1. RUN 5 MINS on NO O_3 √ (√)
2. RECORD CURRENT: .094 µamps
3. RUN 5 MINS on 5 µamps O_3 27.49 (√) – then switch to NO O_3 AIR
4. RECORD TIME TO DROP FROM 4 TO 1.5 µamps: 27.49 sec
5. Short cell leads and Store in Styrofoam flight box: √ (√)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 7/18/15
INITIALS: BW

1. Cathode solution # or date written on bottle: June 2, 2015
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= 0.055 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: 22.57 sec
9. **RECORD:** 5 – T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 26.6, ROOM RH (%): 60
Flowrate Correction: 1.9 (%)
FLOWRATE #1: 29.73 sec
FLOWRATE #2: 29.79 sec
FLOWRATE #3: 29.67 sec
FLOWRATE #4: 29.64 sec
FLOWRATE #5: 29.70 sec
AVERAGE T100: 29.71 sec

	1	2	3	average
dry	28.34	28.50	28.43	28.42
wet	29.00	28.98	28.86	28.95

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU926
GMT DATE (YYMMDD): 150718 LOCAL DATE: 150718
GMT LAUNCH TIME: 6:02 LOCAL TIME: 1:02
Operator Initials: BW
BALLOON SIZE: 1200 Grams: TOTEX ___ Hwoyee ___ PAWAN ___ (√ one)
PAY-OFF-WEIGHT: _____ Grams: Burst Alt: _____ (km) Turn/Burst: _____

O_3 sn: 2Z27861 **O_3 CELL BACKGROUND (µamps):** .055 O_3 Ventilation Holes: 4
O_3 Flowrate: 29.71 **(sec)** **O_3 Flowrate Correction:** 1.9 **(%)**
Radiosonde sn: _____ Freq: 403 (MHz)

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

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