

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 6/18/15 1. Run zero air 10 minutes 89.39 (✓) 5. Bypass cell ✓ (✓)
- INITIALS: CLC 2. PUMP CURRENT: 89.39 (mA) 6. Add 5-6cc cathode ✓ (✓)
- PUMP#: 2228532 3. PUMP PRESSURE: 710 (psi) 7. 30 MINUTES HI O<sub>3</sub> ✓ (✓)
4. DMT Press/vac: 26.19 (in Hg) 8. 3 MINUTES NO O<sub>3</sub> ✓ (✓)
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9. DUMP CATHODE RINSE: ✓ (✓) 16. Run sonde for 10 mins on NO O<sub>3</sub> ✓ (✓)
10. ADD 3.0 CC FRESH CATHODE # 258 17. RECORD CURRENT: BG = 179 uA
11. ADD 1.5 CC ANODE SOLUTION: ✓ (✓) 18. Short the cell leads: ✓ (✓)
12. RUN 10 MINUTES on NO O<sub>3</sub> ✓ (✓) 19. Intake tube stored in sonde frame: ✓ (✓)
13. RECORD CURRENT BEFORE O<sub>3</sub>: BG = .121 uA 20. Place Sonde inside plastic bag: ✓ (✓)
14. RUN 10 MINS on 5 uA O<sub>3</sub> ✓ (✓) - then switch to NO O<sub>3</sub> AIR. 21. Store inside Styrofoam flight box: ✓ (✓)
15. RECORD: TIME TO DROP FROM 4 TO 1.5 uA: 36.41 sec.

AFTER 1 WEEK: REPLACE SOLUTIONS: DATE (LOCAL): 6/26/15

1. RUN 5 MINS on NO O<sub>3</sub> ✓ (✓) 3. RUN 5 MINS on 5 uamps O<sub>3</sub> ✓ (✓) - then switch to NO O<sub>3</sub> AIR
2. RECORD CURRENT: .101 uamps 4. RECORD TIME TO DROP FROM 4 TO 1.5 uamps: 27.30 sec
5. Short cell leads and Store in Styrofoam flight box: ✓ (✓)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 7/4/15  
INITIALS: CLC

1. Cathode solution # or date written on bottle: 258
2. CHANGE CATHODE SOLUTION (3cc): ✓ (✓)
3. CHANGE ANODE SOLUTION (1.5cc): ✓ (Yes/No)
4. RUN ON NO O<sub>3</sub> FOR 10 MINUTES: ✓ (✓)
5. RECORD THE NO O<sub>3</sub> BACKGRND#1: BG1 = .070 uamps
6. RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes: ✓ (✓)
7. SWITCH TO NO O<sub>3</sub> AIR
8. RECORD: DECAY TIME TO DROP FROM 4 TO 1.5 uamps: 25.29 sec
9. RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 23.4, ROOM RH (%): 66

Flowrate Correction: 3.5 (%)

FLOWRATE #1: 29.31 sec

FLOWRATE #2: 29.37 sec

FLOWRATE #3: 29.34 sec

FLOWRATE #4: 29.37 sec

FLOWRATE #5: 29.47 sec

AVERAGE T100: 29.372 sec

	dry	27.63	27.74	27.77	27.70
	wet	28.69	28.59	28.85	28.68

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU924

GMT DATE (YYMMDD): 7/4/15 LOCAL DATE: \_\_\_\_\_

GMT LAUNCH TIME: \_\_\_\_\_ LOCAL TIME: 1:00

Operator Initials: \_\_\_\_\_

BALLOON SIZE: 1200 Grams: \_\_\_\_\_ TOTEX \_\_\_\_\_ Hwoyee \_\_\_\_\_ PAWAN \_\_\_\_\_ (✓ one)

PAY-OFF-WEIGHT: \_\_\_\_\_ Grams: \_\_\_\_\_ Burst Alt: \_\_\_\_\_ (km) Turn/Burst: \_\_\_\_\_

O<sub>3</sub> sn: 2228532 O<sub>3</sub> CELL BACKGROUND (uamps): .070 O<sub>3</sub> Ventilation Holes: N

O<sub>3</sub> Flowrate: 29.372 (sec) O<sub>3</sub> Flowrate Correction: 3.5 (%)

Radiosonde sn: 29505 Freq: 703 (MHz)

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

SURFACE PRES: \_\_\_\_\_ (hPa)

SURFACE TEMP: \_\_\_\_\_ (C)

SURFACE RH: \_\_\_\_\_ (%)

Sky Conditions: \_\_\_\_\_

REMARKS: \_\_\_\_\_