

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

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

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

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

FLIGHT PREPARATION IN LAB.

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

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

T100 FLOWRATE TIMES:

ROOM TEMP (C): 23.4, ROOM RH (%): 66  
 Flowrate Correction: 3.5 (%)

FLOWRATE #1:	<u>29.31</u>	sec
FLOWRATE #2:	<u>29.37</u>	sec
FLOWRATE #3:	<u>29.34</u>	sec
FLOWRATE #4:	<u>29.37</u>	sec
FLOWRATE #5:	<u>29.47</u>	sec
AVERAGE T100:	<u>29.372</u>	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 (μamps): .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: \_\_\_\_\_