

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 10/22/15  
 INITIALS: PLWS  
 PUMP#: 2229307
- Run zero air 10 minutes  (✓)
  - PUMP CURRENT: 97.42 (mA)
  - PUMP PRESSURE: 211 (psi)
  - DMT Press/vac: 30 / 21 (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 #  (✓)
  - ADD 1.5 CC ANODE SOLUTION:  (✓)
  - RUN 10 MINUTES on NO O<sub>3</sub>  (✓)
  - RECORD CURRENT BEFORE O<sub>3</sub>: BG = 0.244 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: 39.39 sec.
  - Run sonde for 10 mins on NO O<sub>3</sub>  (✓)
  - RECORD CURRENT: BG = 0.231 uA
  - 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): 10/29

- RUN 5 MINS on NO O<sub>3</sub>  (✓)
- RECORD CURRENT: 0.123 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: 32.7 sec
- Short cell leads and Store in Styrofoam flight box:  (✓)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 11/7/2013  
INITIALS: ML

- Cathode solution # or date written on bottle: 261
- 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 = 0.031 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: 25.26 sec
- RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 20.4, ROOM RH (%): 48  
 Flowrate Correction: 3.12 (%)

FLOWRATE #1:	<u>29.72</u> sec
FLOWRATE #2:	<u>29.49</u> sec
FLOWRATE #3:	<u>29.56</u> sec
FLOWRATE #4:	<u>29.48</u> sec
FLOWRATE #5:	<u>29.46</u> sec
AVERAGE T100:	<u>29.59</u> sec Avg

Dry	<u>27.19</u>	<u>27.19</u>	<u>27.25</u>	<u>27.21</u>
Wet	<u>28.19</u>	<u>27.97</u>	<u>28.03</u>	<u>28.16</u>

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: 31 (km) Turn/Burst: \_\_\_\_\_

O<sub>3</sub> sn: \_\_\_\_\_ O<sub>3</sub> CELL BACKGROUND (μamps): \_\_\_\_\_ O<sub>3</sub> Ventilation Holes: \_\_\_\_\_  
 O<sub>3</sub> Flowrate: \_\_\_\_\_ (sec) O<sub>3</sub> Flowrate Correction: \_\_\_\_\_ (%)  
 Radiosonde sn: 35572 Freq: 403 (MHz)

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

SURFACE PRES: \_\_\_\_\_ (hPa)  
 SURFACE TEMP: \_\_\_\_\_ (C)  
 SURFACE RH: \_\_\_\_\_ (%)

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

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