

July 2, 2014

**INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.**

- DATE (LOCAL): 11/13/2015  
 INITIALS: NL  
 PUMP#: 2320145
- Run zero air 10 minutes  (✓)
  - PUMP CURRENT: 97.76 (mA)
  - PUMP PRESSURE: 211 (psi)
  - DMT Press/vac: 28.10 (in Hg)
  - Bypass cell  (✓)
  - Add 5-6cc cathode  (✓)
  - 30 MINUTES HI O<sub>3</sub>  (✓)
  - 3 MINUTES NO O<sub>3</sub>  (✓)
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- DUMP CATHODE RINSE:  (✓)
  - ADD 3.0 CC FRESH CATHODE # 261
  - ADD 1.5 CC ANODE SOLUTION:  (✓)
  - RUN 10 MINUTES on NO O<sub>3</sub>  (✓)
  - RECORD CURRENT BEFORE O<sub>3</sub>: BG = 186 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: 41.29 sec.
  - Run sonde for 10 mins on NO O<sub>3</sub>  (✓)
  - RECORD CURRENT: BG = 177 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): 11/19/15**

- RUN 5 MINS on NO O<sub>3</sub>  (✓)
- RECORD CURRENT: 089 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: 28.07 sec
- Short cell leads and Store in Styrofoam flight box:  (✓)

**FLIGHT PREPARATION IN LAB.**

DATE (LOCAL): 11/21/2015  
INITIALS: BW

- Cathode solution # or date written on bottle: Sept 9, 2015
- CHANGE CATHODE SOLUTION (3cc):  (✓)
- CHANGE ANODE SOLUTION (1.5cc): Yes (Yes/No)
- RUN ON NO O<sub>3</sub> FOR 10 MINUTES:  (✓)
- RECORD THE NO O<sub>3</sub> BACKGRND#1: BG1 = 0.032 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: 26.49 sec
- RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 11.3, ROOM RH (%): 30%

- Flowrate Correction: 2.3 (%)
- FLOWRATE #1: 29.41 sec  
 FLOWRATE #2: 29.50 sec  
 FLOWRATE #3: 29.48 sec  
 FLOWRATE #4: 29.67 sec  
 FLOWRATE #5: 29.56 sec

AVERAGE T100: 29.52 sec

	1	2	3	average
dry	27.82	27.90	28.00	27.90
wet	28.52	28.49	28.64	28.55

**DAY OF FLIGHT @ THE LAUNCH SITE.**

FLIGHT NUMBER: 40944  
 GMT DATE (YYMMDD): 151121 LOCAL DATE: 151121  
 GMT LAUNCH TIME: 7:00PM LOCAL TIME: 1:00PM  
 Operator Initials: BW

BALLOON SIZE: 1200 Grams: TOTEX \_\_\_\_\_ Hwoyee \_\_\_\_\_ PAWAN \_\_\_\_\_ (✓ one)  
 PAY-OFF-WEIGHT: \_\_\_\_\_ Grams: Burst Alt: \_\_\_\_\_ (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: \_\_\_\_\_ Freq: \_\_\_\_\_ (MHz)

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

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

Sky Conditions: (failure) Battery Voltage  
 REMARKS: Radiosonde abnormal start with 5.5V, keep 5.9V during the flight. Altitude of radiosonde start with negative value.