

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

DATE (LOCAL): 9/8/10  
 INITIALS: PDC  
 PUMP# (add x,y,z,R): 239274x

1. Run zero air 10 minutes  (v)  
 2. PUMP CURRENT: 99  
 3. PUMP PRESSURE: 15  
 4. ENSCI Press/vac: 26/21

5. Bypass cell  (v)  
 6. Add 5-6cc cathode  (v)  
 7. 30 MINUTES HI O<sub>3</sub>  (v)  
 8. 3 MINUTES NO O<sub>3</sub>  (v)

9. DUMP CATHODE RINSE:  (v)  
 10. ADD 3.0 CC FRESH CATHODE # 201  
 11. ADD 1.5 CC ANODE SOLUTION:  (v)  
 12. RUN 10 MINUTES on NO O<sub>3</sub>  (v)  
 13. RECORD CURRENT: = 0.01  $\mu$ amps  
 14. RUN 10 MINUTES on 5  $\mu$ amps O<sub>3</sub>  (v) - then switch to NO O<sub>3</sub> AIR.  
 15. RECORD: TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 18.99 sec.

16. Run sonde for 10 minutes on NO O<sub>3</sub> AIR  (v)  
 17. Short the cell leads:  (v)  
 18. intake tube stored in sonde frame:  (v)  
 19. Place Instrument inside plastic bag:  (v)  
 20. Store inside Styrofoam flight box:  (v)

AFTER 1 WEEK: REPLACE SOLUTIONS: DATE (LOCAL): \_\_\_\_\_

- 5 MINUTES on NO O<sub>3</sub>  (v)
- RECORD CURRENT: \_\_\_\_\_  $\mu$ amps
- RUN 5 MINUTES on 5  $\mu$ amps O<sub>3</sub> \_\_\_\_\_ (v) - then switch to NO O<sub>3</sub> AIR.
- TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: \_\_\_\_\_ sec. RUN 5 minutes:

0.012 29.73  
 53 sec 29.66  
 99/100 29.63  
 29.62  
 29.59

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 10/23/2010  
 INITIALS: SC  
 Cathode solution # or date written on bottle: 6/21/2010  
 CHANGE CATHODE SOLUTION (3cc):  (v)  
 CHANGE ANODE SOLUTION (1.5cc):  (Yes/No)  
 RUN ON NO O<sub>3</sub> FOR 5 MINUTES:  (v)  
 RECORD THE NO O<sub>3</sub> BACKGRND#1: BG1= 0.009  $\mu$ amps  
 RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v)  
 SWITCH TO NO O<sub>3</sub> AIR.

TEST UNIT T100 flow : \_\_\_\_\_  
 ENSCI label air flow (s/100ml) : \_\_\_\_\_

T100 FLOWRATE TIMES:  
 FLOWRATE #1: 30.04 sec  
 FLOWRATE #2: 30.02  
 FLOWRATE #3: 30.03  
 FLOWRATE #4: 29.99  
 FLOWRATE #5: 29.92  
 AVERAGE T100: 30.00

Dry  
 1. 27.87  
 2. 27.92  
 3. 27.73  
 Avg: 27.84  
 Wet  
 1. 28.03  
 2. 28.16  
 3. 28.23  
 Avg 28.14

RECORD: THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 22.69 sec.  
 RECORD: ROOM TEMP (C) 20.6 ROOM REL. HUMID. (%) 34 Flowrate Correction 1.077 % (Tables)  
 RECORD: 5 - T100 FLOWRATE TIMES:

SONDE= \_\_\_\_\_ ppbv @ CALIB= \_\_\_\_\_

DAY OF FLIGHT @ THE LAUNCH SITE.

GAUGE Pressure: \_\_\_\_\_  
 VAISALA Pressure: \_\_\_\_\_

FLIGHT NUMBER: HU 647  
 GMT DATE (YYMMDD): 10/23/2010 LOCAL DATE: 10/23/2010  
 GMT LAUNCH TIME: \_\_\_\_\_ LOCAL TIME: \_\_\_\_\_  
 BALLOON TYPE 800 Gram: Kaymont  Scientific Sales \_\_\_\_\_ (v one)

O<sub>3</sub> BACKGROUND ( $\mu$ amps): \_\_\_\_\_  
 VAISALA NUMBER (9 digit): 128324453  
 SURFACE PRESSURE: \_\_\_\_\_  
 SURFACE TEMP. (C): \_\_\_\_\_  
 SURFACE HUMIDITY: \_\_\_\_\_

SKY CONDITIONS: Cloudy

REMARKS: bad launch. No DATA. rec'd dropped so quickly sonde may have been damaged.

Ventilation Holes: \_\_\_\_\_ weighoff = \_\_\_\_\_ grams