

Seacions August 2013

DIGITAL OZONE SONDE CHECKLIST

FLT# H4811

INITIAL PREPARATION ~7 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 8/16/2013  
 INITIALS: WTC  
 PUMP# (add x,y,z,R): 2E24647
- Run zero air 10 minutes  (✓)
  - PUMP CURRENT: 99.14
  - PUMP PRESSURE: 210
  - ENSCI Press/vac: 3020 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 #  (✓)
  - ADD 1.5 CC ANODE SOLUTION:  (✓)
  - RUN 10 MINUTES on NO O<sub>3</sub>  (✓)
  - RECORD CURRENT: BG = 0.136 μamps
  - RUN 10 MINUTES 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: 32.55 sec.
  - Run sonde for 10 minutes on NO O<sub>3</sub> AIR  (✓)
  - Short the cell leads:  (✓)
  - Intake tube stored in sonde frame:  (✓)
  - Place Instrument inside plastic bag:  (✓)
  - Store inside Styrofoam flight box:  (✓)

2-5 DAYS AFTER INITIAL PREP: REPLACE SOLUTIONS: DATE (LOCAL): 08/19/2013 NCT

- Replace Cathode/Anode  (✓)
- RUN 5 MINS on NO O<sub>3</sub>  (✓)
- RECORD CURRENT: 92.28 μamps
- RUN 5 MINS on 5 μamps O<sub>3</sub>  (✓)
- Switch to NO O<sub>3</sub> AIR
- RECORD TIME TO DROP FROM 4 TO 1.5 μamps: 22.82 sec
- RUN 5 MINS on NO O<sub>3</sub>  (✓)
- Short cell leads  (✓)
- Store inside Styrofoam flight box:  (✓)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 8/22/2013  
INITIALS: WTC

T100 FLOWRATE TIMES:

- Cathode solution # or date written on bottle: 238
- 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 = 0.043 μamps
- RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (✓)
- SWITCH TO NO O<sub>3</sub> AIR.
- RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 23.36 sec
- RECORD: 5 - T100 FLOWRATE TIMES:

ROOM TEMP (C): 24, ROOM RH (%): 41  
 Flowrate Correction: 2.16 (%)  
 FLOWRATE #1: 28.03 sec  
 FLOWRATE #2: 27.83 sec  
 FLOWRATE #3: 27.93 sec  
 FLOWRATE #4: 27.76 sec  
 FLOWRATE #5: 27.86 sec  
 \*AVERAGE T100: 27.88 sec

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: H4811  
 GMT DATE (YYMMDD): 130822 LOCAL DATE: 130822  
 GMT LAUNCH TIME: 17:58 LOCAL TIME: 12:58  
 Operator Initials: WTC  
 BALLOON SIZE: 1000 Grams: TOTEX \_\_\_\_\_ Hwoyee  (✓ one)  
 PAY-OFF-WEIGHT: 1200 Grams: Burst Alt: 30,94 (km)

O<sub>3</sub> sn: 2224647 O<sub>3</sub> CELL BACKGROUND (μamps): 0.043  
 O<sub>3</sub> Flowrate: 27.88 (sec) O<sub>3</sub> Flowrate Correction: 2.16 (%)

Radiosonde s/n: 20969 Freq: 403 (MHz)

SURFACE PRES: 995.7 (hPa)  
 SURFACE TEMP: 29 (C)  
 SURFACE RH: 61.1 (%)

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

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