

Seacions August 2013

DIGITAL OZONESONDE CHECKLIST

FLT# HU 805

INITIAL PREPARATION ~7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 08/09/2013
INITIALS: NLP
PUMP# (add x,y,z,R): 2224640

1. Run zero air 10 minutes (v)
2. PUMP CURRENT: 90.53
3. PUMP PRESSURE: >11
4. ENSCI Press/vac: 32/19 in Hg

5. Bypass cell (v)
6. Add 5-6cc cathode (v)
7. 30 MINUTES HI O₃ (v)
8. 3 MINUTES NO O₃ (v)

9. DUMP CATHODE RINSE: (v)
10. ADD 3.0 CC FRESH CATHODE # (v)
11. ADD 1.5 CC ANODE SOLUTION: (v)
12. RUN 10 MINUTES on NO O₃ (v)
13. RECORD CURRENT: BG = 0.156 μ amps
14. RUN 10 MINUTES on 5 μ amps O₃ (v) - then switch to NO O₃ AIR.
15. RECORD: TIME TO DROP FROM 4 TO 1.5 μ amps: 35.64 sec.

16. Run sonde for 10 minutes on NO O₃ 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)

2-5 DAYS AFTER INITIAL PREP. REPLACE SOLUTIONS: DATE (LOCAL): 08/10/2013

1. Replace Cathode/Anode (v)
2. RUN 5 MINS on NO O₃ (v)
3. RECORD CURRENT: 0.102 μ amps
4. RUN 5 MINS on 5 μ amps O₃ (v)
5. Switch to NO O₃ AIR

6. RECORD TIME TO DROP FROM 4 TO 1.5 μ amps: 25.89 sec
7. RUN 5 MINS on NO O₃ (v)
8. Short cell leads (v)
9. Store inside Styrofoam flight box: (v)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 08/15/2013
INITIALS: NLP

T100 FLOWRATE TIMES:

ROOM TEMP (C): 24.2, ROOM RH (%): 38
Flowrate Correction: 1.49 (%)

1. Cathode solution # or date written on bottle: 238
2. CHANGE CATHODE SOLUTION (3cc): (v)
3. CHANGE ANODE SOLUTION (1.5cc): (Yes/No)
4. RUN ON NO O₃ FOR 10 MINUTES: (v)
5. RECORD THE NO O₃ BACKGRND#1: BG1 = 0.037 μ amps
6. RUN ON 5 microamps of O₃ for 10 Minutes: (v)
7. SWITCH TO NO O₃ AIR.
8. RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 23.68 sec
9. RECORD: 5 - T100 FLOWRATE TIMES:

FLOWRATE #1: 29.41 sec
FLOWRATE #2: 29.35 sec
FLOWRATE #3: 29.36 sec
FLOWRATE #4: 29.11 sec
FLOWRATE #5: 29.01 sec
AVERAGE T100: 29.25 sec

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 805
GMT DATE (YYMMDD): 08/15/2013 LOCAL DATE: 08/15/2013
GMT LAUNCH TIME: 17:52 LOCAL TIME: 12:52

Operator Initials: NLP
BALLOON SIZE: 1000 Grams: TOTEX _____ Hwoyee (v one)
PAY-OFF-WEIGHT: 1700 Grams: Burst Alt: 31.5 (km)

O₃ sn: 2224640 O₃ CELL BACKGROUND (μ amps): 0.037
O₃ Flowrate: 29.25 (sec) O₃ Flowrate Correction: 1.49 (%)

Radiosonde s/n: 17767 Freq: 402 (MHz)

SURFACE PRES: 992.8 (hPa)
SURFACE TEMP: 24 (C)
SURFACE RH: 69.9 (%)
Sky Conditions: Cloudy

REMARKS: