

Seacions August 2013

DIGITAL OZONESONDE CHECKLIST

FLT# HU 821

INITIAL PREPARATION ~7 DAYS BEFORE FLIGHT.

DATE (LOCAL): <u>08/27/2013</u>	1. Run zero air 10 minutes <input checked="" type="checkbox"/> (v)	5. Bypass cell <input checked="" type="checkbox"/> (v)
INITIALS: <u>NLP</u>	2. PUMP CURRENT: <u>94.70</u>	6. Add 5-6cc cathode <input checked="" type="checkbox"/> (v)
PUMP# (add x,y,z,R): <u>2222239</u>	3. PUMP PRESSURE: <u>29</u>	7. 30 MINUTES HI O ₃ <input checked="" type="checkbox"/> (v)
	4. ENSCI Press/vac: <u>26/20 in Hg</u>	8. 3 MINUTES NO O ₃ <input checked="" type="checkbox"/> (v)

9. DUMP CATHODE RINSE: <input checked="" type="checkbox"/> (v)	16. Run sonde for 10 minutes on NO O ₃ AIR <input checked="" type="checkbox"/> (v)
10. ADD 3.0 CC FRESH CATHODE # <input checked="" type="checkbox"/> (v)	17. Short the cell leads: <input checked="" type="checkbox"/> (v)
11. ADD 1.5 CC ANODE SOLUTION: <input checked="" type="checkbox"/> (v)	18. Intake tube stored in sonde frame: <input checked="" type="checkbox"/> (v)
12. RUN 10 MINUTES on NO O ₃ <input checked="" type="checkbox"/> (v)	19. Place Instrument inside plastic bag: <input checked="" type="checkbox"/> (v)
13. RECORD CURRENT: BG = <u>0.264</u> μamps	20. Store inside Styrofoam flight box: <input checked="" type="checkbox"/> (v)
14. RUN 10 MINUTES on 5 μamps O ₃ <input checked="" type="checkbox"/> (v) - then switch to NO O ₃ AIR.	
15. RECORD: TIME TO DROP FROM 4 TO 1.5 μamps: <u>40.95</u> sec.	

2-5 DAYS AFTER INITIAL PREP: REPLACE SOLUTIONS: DATE (LOCAL): 09/02/2013

1. Replace Cathode/Anode <input checked="" type="checkbox"/> (v)	6. RECORD TIME TO DROP FROM 4 TO 1.5 μamps: <u>24.26</u> sec
2. RUN 5 MINS on NO O ₃ <input checked="" type="checkbox"/> (v)	7. RUN 5 MINS on NO O ₃ <input checked="" type="checkbox"/> (v)
3. RECORD CURRENT: <u>0.060</u> μamps	8. Short cell leads <input checked="" type="checkbox"/> (v)
4. RUN 5 MINS on 5 μamps O ₃ <input checked="" type="checkbox"/> (v)	9. Store inside Styrofoam flight box: <input checked="" type="checkbox"/> (v)
5. Switch to NO O ₃ AIR	

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 09/04/2013
INITIALS: NLP

T100 FLOWRATE TIMES:

ROOM TEMP (C): 23.9, ROOM RH (%): 41
 Flowrate Correction: 2.71 (%)
 FLOWRATE #1: 29.47 sec
 FLOWRATE #2: 29.42 sec
 FLOWRATE #3: 29.33 sec
 FLOWRATE #4: 29.40 sec
 FLOWRATE #5: 29.24 sec
 *AVERAGE T100: 29.37 sec

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 = 0.048 μamps
 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 μamps: 24.0 sec
 9. RECORD: 5 - T100 FLOWRATE TIMES:

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 821
 GMT DATE (YYMMDD): 09/04/2013 LOCAL DATE: 09/04/2013
 GMT LAUNCH TIME: 19:02 LOCAL TIME: 14:02
 Operator Initials: NLP
 BALLOON SIZE: 1000 Grams: TOTEX _____ Hwoyee (v one)
 PAY-OFF-WEIGHT: 1700 Grams: Burst Alt: 30.20 (km)

O₃ sn: 2222239 O₃ CELL BACKGROUND (μamps): 0.048
 O₃ Flowrate: 29.37 (sec) O₃ Flowrate Correction: 2.71 (%)

Radiosonde s/n: 20989 Freq: 403 (MHz)

SURFACE PRES: 995.3 (hPa)
 SURFACE TEMP: 28 (C)
 SURFACE RH: 47.2 (%)

Sky Conditions: _____

REMARKS: _____