

Seacions August 2013

DIGITAL OZONESONDE CHECKLIST

FLT# HU 820

INITIAL PREPARATION ~7 DAYS BEFORE FLIGHT.

DATE (LOCAL): <u>09/26/2013</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>101.57</u>	6. Add 5-6cc cathode <input checked="" type="checkbox"/> (v)
PUMP# (add x,y,z,R): <u>2224751</u>	3. PUMP PRESSURE: <u>210</u>	7. 30 MINUTES HI O ₃ <input checked="" type="checkbox"/> (v)
	4. ENSCI Press/vac: <u>28/19 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 = 0.0000 <u>0.029</u> μ amps	20. Store inside Styrofoam flight box: <input checked="" type="checkbox"/> (v)
14. RUN 10 MINUTES on 5 μ amps O ₃ <input checked="" type="checkbox"/> (v) - then switch to NO O ₃ AIR.	
15. RECORD: TIME TO DROP FROM 4 TO 1.5 μ amps: <u>40.44</u> sec.	

2-5 DAYS AFTER INITIAL PREP: REPLACE SOLUTIONS: DATE (LOCAL):

1. Replace Cathode/Anode <input checked="" type="checkbox"/> (v)	6. RECORD TIME TO DROP FROM 4 TO 1.5 μ amps: <u>22.83</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>0.090</u> μ amps	8. Short cell leads <input checked="" type="checkbox"/> (v)
4. RUN 5 MINS on 5 μ amps 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): 09/02/2013
INITIALS: NLP

T100 FLOWRATE TIMES:

ROOM TEMP (C): 24.3, ROOM RH (%): 46
Flowrate Correction: 2.14 (%)

1. Cathode solution # or date written on bottle: <u>238</u>	FLOWRATE #1: <u>27.87</u> sec
2. CHANGE CATHODE SOLUTION (3cc): <input checked="" type="checkbox"/> (v)	FLOWRATE #2: <u>27.80</u> sec
3. CHANGE ANODE SOLUTION (1.5cc): <input checked="" type="checkbox"/> (Yes/No)	FLOWRATE #3: <u>27.73</u> sec
4. RUN ON NO O ₃ FOR 10 MINUTES: <input checked="" type="checkbox"/> (v)	FLOWRATE #4: <u>27.70</u> sec
5. RECORD THE NO O ₃ BACKGRND#1: BG1= <u>0.052</u> μ amps	FLOWRATE #5: <u>27.68</u> sec
6. RUN ON 5 microamps of O ₃ for 10 Minutes: <input checked="" type="checkbox"/> (v)	• AVERAGE T100: <u>27.76</u> sec
7. SWITCH TO NO O ₃ AIR.	
8. RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: <u>23.88</u> sec	
9. RECORD: 5 - T100 FLOWRATE TIMES:	

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 820
GMT DATE (YYMMDD): 09/02/2013 LOCAL DATE: 09/02/2013
GMT LAUNCH TIME: 19:06:01 LOCAL TIME: 14:06:01

Operator Initials: NLP
BALLOON SIZE: 1000 Grams: TOTEX _____ Hwoyee (v one)
PAY-OFF-WEIGHT: 1700 Grams: Burst Alt: 29.4467 (km)

O₃ sn: 2224751 O₃ CELL BACKGROUND (μ amps): 0.052
O₃ Flowrate: 27.76 (sec) O₃ Flowrate Correction: 2.14 (%)

Radiosonde s/n: 20888 Freq: 403 (MHz)

SURFACE PRES: 989.7 (hPa)
SURFACE TEMP: 28.6 (C)
SURFACE RH: 63.2 (%)

Sky Conditions: _____
REMARKS: _____