

Seacions August 2013

DIGITAL OZONESONDE CHECKLIST

FLT# HU 825

INITIAL PREPARATION ~7 DAYS BEFORE FLIGHT.

DATE (LOCAL): <u>9/8/2013</u>	1. Run zero air 10 minutes <input checked="" type="checkbox"/> (v)	5. Bypass cell <input checked="" type="checkbox"/> (v)
INITIALS: <u>WTC</u>	2. PUMP CURRENT: <u>99.63</u>	6. Add 5-6cc cathode <input checked="" type="checkbox"/> (v)
PUMP# (add x,y,z,R): <u>2722241</u>	3. PUMP PRESSURE: <u>11</u>	7. 30 MINUTES HI O ₃ <input checked="" type="checkbox"/> (v)
	4. ENSCI Press/vac: <u>29/20</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>0.178</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>35.17</u> sec.	

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

1. Replace Cathode/Anode <input checked="" type="checkbox"/> (v)	6. RECORD TIME TO DROP FROM 4 TO 1.5 μ amps: <u>23.53</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>0.035</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): 09/12/2013
INITIALS: NLP

T100 FLOWRATE TIMES:

ROOM TEMP (C): 23.6 ROOM RH (%): 40
Flowrate Correction: 3.08 (%)

FLOWRATE #1:	<u>28.96</u>	sec
FLOWRATE #2:	<u>28.84</u>	sec
FLOWRATE #3:	<u>28.93</u>	sec
FLOWRATE #4:	<u>28.83</u>	sec
FLOWRATE #5:	<u>28.77</u>	sec
*AVERAGE T100:	<u>28.87</u>	sec

1. Cathode solution # or date written on bottle: <u>239</u>
2. CHANGE CATHODE SOLUTION (3cc): <input checked="" type="checkbox"/> (v)
3. CHANGE ANODE SOLUTION (1.5cc): <input checked="" type="checkbox"/> (Yes/No)
4. RUN ON NO O ₃ FOR 10 MINUTES: <input checked="" type="checkbox"/> (v)
5. RECORD THE NO O ₃ BACKGRND#1: BG1 = <u>0.027</u> μ amps
6. RUN ON 5 microamps of O ₃ for 10 Minutes: <input checked="" type="checkbox"/> (v)
7. SWITCH TO NO O ₃ AIR.
8. RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: <u>22.82</u> sec
9. RECORD: 5 - T100 FLOWRATE TIMES:

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 825
GMT DATE (YYMMDD): 09/12/2013 LOCAL DATE: 09/12/2013
GMT LAUNCH TIME: 18:09 LOCAL TIME: 13:09

Operator Initials: NLP
BALLOON SIZE: 1200 Grams: TOTEX _____ Hwoyee (v one)
PAY-OFF-WEIGHT: 1700 Grams: Burst Alt: 35.86 (km)

O₃ sn: 2222241 O₃ CELL BACKGROUND (μ amps): 0.027
O₃ Flowrate: 28.87 (sec) O₃ Flowrate Correction: 3.08 (%)

Radiosonde s/n: 17776 Freq: 403 (MHz)

SURFACE PRES: 993.2 (hPa)
SURFACE TEMP: 33.0 (C)
SURFACE RH: 42.3 (%)

Sky Conditions: A 20 percent chance of showers and thunderstorms. Mostly sunny,
REMARKS: with a high near 92. Northwest wind around 5 mph.