

March 2014 NEW

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 6/12/14 1. Run zero air 10 minutes (✓) 5. Bypass cell (✓)
- INITIALS: CLC 2. PUMP CURRENT: 88.30 6. Add 5-6cc cathode (✓)
- PUMP# (add x,y,z,R): ZE26389 3. PUMP PRESSURE: 710 7. 30 MINUTES HI O₃ (✓)
4. ENSCI Press/vac: 29/19 8. 3 MINUTES NO O₃ (✓)
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9. DUMP CATHODE RINSE: (✓) 16. Run sonde for 10 minutes on NO O₃ AIR (✓)
10. ADD 3.0 CC FRESH CATHODE # (✓) 17. Short the cell leads: (✓)
11. ADD 1.5 CC ANODE SOLUTION: (✓) 18. Intake tube stored in sonde frame: (✓)
12. RUN 10 MINUTES on NO O₃ (✓) 19. Place Instrument inside plastic bag: (✓)
13. RECORD CURRENT: BG = 0.712 - 0.197 μ amps 20. Store inside Styrofoam flight box: (✓)
14. RUN 10 MINUTES on 5 μ amps O₃ (✓) - then switch to NO O₃ AIR.
15. RECORD: TIME TO DROP FROM 4 TO 1.5 μ amps: 37.25 sec.

AFTER 1 WEEK: REPLACE SOLUTIONS: DATE (LOCAL): 6-19-14

1. RUN 5 MINS on NO O₃ 0.63 (✓) 3. RUN 5 MINS on 5 μ amps O₃ (✓) - then switch to NO O₃ AIR
2. RECORD CURRENT: 0.63 μ amps 4. RECORD TIME TO DROP FROM 4 TO 1.5 μ amps: 23.69 sec
5. Short cell leads and Store in Styrofoam flight box: (✓)

FLIGHT PREPARATION IN LAB. (Under 24 hours to launch)

DATE (LOCAL): 6-28-14 T100 FLOWRATE TIMES:
INITIALS: CLC ROOM TEMP (C): 25.0, ROOM RH (%): 45%

1. Cathode solution # or date written on bottle: 239
2. CHANGE CATHODE SOLUTION (3cc): (✓)
3. CHANGE ANODE SOLUTION (1.5cc): (Yes/No)
4. RUN ON NO O₃ FOR 10 MINUTES: (✓)
5. RECORD THE NO O₃ BACKGRND#1: BG1 = 0.019 μ amps
6. RUN ON 5 microamps of O₃ for 10 Minutes: (✓)
7. SWITCH TO NO O₃ AIR.
8. RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 21.81 sec
9. RECORD: 5 - T100 FLOWRATE TIMES:

Flowrate Correction: 1.5 (%)

FLOWRATE #1:	<u>29.39</u>	sec		
FLOWRATE #2:	<u>29.33</u>	sec		
FLOWRATE #3:	<u>29.45</u>	sec		
FLOWRATE #4:	<u>29.29</u>	sec		
FLOWRATE #5:	<u>29.16</u>	sec		
AVERAGE T100:	<u>29.329</u>	sec avg		
wet	<u>27.92</u>	<u>28.01</u>	<u>27.93</u>	<u>27.953</u>
Dry	<u>27.57</u>	<u>27.58</u>	<u>27.44</u>	<u>27.53</u>

DAY OF FLIGHT @ THE LAUNCH SITE.

Results: O₃ Sonde TCO extrap: _____ (DU)

FLIGHT NUMBER: HU872

GMT DATE (YYMMDD): 6-28-14 LOCAL DATE: 6-28-14

GMT LAUNCH TIME: _____ LOCAL TIME: _____

Operator Initials: CLC

BALLOON SIZE: 800 Grams: TOTEX _____ Hwoyee PAWAN _____ (✓ one)

PAY-OFF-WEIGHT: _____ Grams: Burst Alt: 30720 (km) Turn/Burst: _____

O₃ sn: ~~2624647~~ O₃ CELL BACKGROUND (μ amps): 0.019 O₃ Ventilation Holes: (Y/N) Y

O₃ Flowrate: 29.324 (sec) O₃ Flowrate Correction: 1.5 (%)

Radiosonde #: 26725 Freq: 403 (MHz) If Vais RS-80, Pressure offset written on bag: _____ (hPa)

NOAA FPH sn: _____

Other instruments: _____

SURFACE PRES: 106.7 (hPa)

SURFACE TEMP: 28.6 (C)

SURFACE RH: 58.2 (%)

Sky Conditions: _____

REMARKS: _____