

March 2014 NEW

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 6-4-14
 INITIALS: CLC
 PUMP# (add x,y,z,R): 2Z26396
- Run zero air 10 minutes (v)
 - PUMP CURRENT: 90.72
 - PUMP PRESSURE: 710 lbs
 - ENSCI Press/vac: 25/21 in Hg
 - Bypass cell (v)
 - Add 5-6cc cathode (v)
 - 30 MINUTES HI O₃ (v)
 - 3 MINUTES NO O₃ (v)
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- DUMP CATHODE RINSE: (v)
 - ADD 3.0 CC FRESH CATHODE # 239
 - ADD 1.5 CC ANODE SOLUTION: (v)
 - RUN 10 MINUTES on NO O₃ (v)
 - RECORD CURRENT: BG = .183 μamps
 - RUN 10 MINUTES on 5 μamps O₃ (v) - then switch to NO O₃ AIR.
 - RECORD: TIME TO DROP FROM 4 TO 1.5 μamps: 39.23 sec.
 - Run sonde for 10 minutes on NO O₃ AIR (v)
 - Short the cell leads: (v)
 - Intake tube stored in sonde frame: (v)
 - Place Instrument inside plastic bag: (v)
 - Store inside Styrofoam flight box: (v)

AFTER 1 WEEK: REPLACE SOLUTIONS: DATE (LOCAL): 6-12-14

- RUN 5 MINS on NO O₃ (v)
- RECORD CURRENT: 0.069 μamps
- RUN 5 MINS on 5 μamps O₃ (v) - then switch to NO O₃ AIR
- RECORD TIME TO DROP FROM 4 TO 1.5 μamps: 24.72 sec
- Short cell leads and Store in Styrofoam flight box: (v)

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

DATE (LOCAL): 6/21/14
 INITIALS: CLC

T100 FLOWRATE TIMES:

ROOM TEMP (C): 26.7, ROOM RH (%): 59
 Flowrate Correction: 1.4 (%)

- Cathode solution # or date written on bottle: 239
- CHANGE CATHODE SOLUTION (3cc): (v)
- CHANGE ANODE SOLUTION (1.5cc): (Yes/No)
- RUN ON NO O₃ FOR 10 MINUTES: (v)
- RECORD THE NO O₃ BACKGRND#1: BG1=0.010 μamps
- RUN ON 5 microamps of O₃ for 10 Minutes: (v)
- SWITCH TO NO O₃ AIR.
- RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 23.67 sec
- RECORD: 5 - T100 FLOWRATE TIMES:

FLOWRATE #1: 29.64 sec
 FLOWRATE #2: 29.81 sec
 FLOWRATE #3: 29.73 sec
 FLOWRATE #4: 29.80 sec
 FLOWRATE #5: 29.73 sec

AVERAGE T100: 29.74 sec

	<u>27.68</u>	<u>27.43</u>	<u>27.52</u>	<u>27.5433</u>
<u>wet Dry</u>				
<u>wet</u>	<u>27.99</u>	<u>27.81</u>	<u>27.99</u>	<u>27.9167</u>

DAY OF FLIGHT @ THE LAUNCH SITE.

Results: O₃ Sonde TCO extrap: _____ (DU)

FLIGHT NUMBER: HU871
 GMT DATE (YYMMDD): 6/21/2014 LOCAL DATE: 6/21/2014
 GMT LAUNCH TIME: 18:02 LOCAL TIME: 1:02
 Operator Initials: CLC

BALLOON SIZE: 800 Grams: TOTEX _____ Hwoyee PAWAN _____ (v one)
 PAY-OFF-WEIGHT: _____ Grams: Burst Alt: 33 (km) Turn/Burst: _____

O₃ sn: 2Z26396 O₃ CELL BACKGROUND (μamps): 0.010 O₃ Ventilation Holes: (Y/N) Y
 O₃ Flowrate: 29.74 (sec) O₃ Flowrate Correction: 1.4% (%)
 Radiosonde #: 26236 Freq: 403 (MHz) If Vais RS-80, Pressure offset written on bag: _____ (hPa)
 NOAA FPH sn: _____
 Other instruments: _____

SURFACE PRES: 990.6 (hPa)
 SURFACE TEMP: 32 (C)
 SURFACE RH: 43.6 (%)

Sky Conditions: _____
 REMARKS: _____