

January 2014 NEW

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 02/28/2014
 INITIALS: NLP
 PUMP# (add x,y,z,R): 2224670
- Run zero air 10 minutes (v)
 - PUMP CURRENT: >10
 - PUMP PRESSURE: 20
 - ENSCI Press/vac: 2224670
 - 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 # (v)
 - ADD 1.5 CC ANODE SOLUTION: (v)
 - RUN 10 MINUTES on NO O₃ (v)
 - RECORD CURRENT: BG = 0.374 μ amps (v)
 - RUN 10 MINUTES on 5 μ amps O₃ (v) - then switch to NO O₃ AIR.
 - RECORD: TIME TO DROP FROM 4 TO 1.5 μ amps: 47.63 sec. ~ 30 sec (≤ 1 min)
 - 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): 03/08/2014

- RUN 5 MINS on NO O₃ (v)
- RECORD CURRENT: 94.51 μ amps
- RUN 5 MINS on 5 μ amps O₃ (v) - then switch to NO O₃ AIR
- RECORD TIME TO DROP FROM 4 TO 1.5 μ amps: 32.97 sec
- Short cell leads and Store in Styrofoam flight box: (v)

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

DATE (LOCAL): 03/15/14
INITIALS: NLP

- 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 = 0.044 μ amps
- 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 μ amps: 28.27 sec
- RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:
 ROOM TEMP (C): 19.8, ROOM RH (%): 27
 Flowrate Correction: 2.67 (%)
 FLOWRATE #1: 29.47 sec
 FLOWRATE #2: 29.64 sec
 FLOWRATE #3: 29.55 sec
 FLOWRATE #4: 29.42 sec
 FLOWRATE #5: 29.40 sec
 AVERAGE T100: 29.50 sec

DAY OF FLIGHT @ THE LAUNCH SITE.

Results: O₃ Sonde TCO extrap: _____ (DU)
 O₃ Sonde TCO SBUV: _____ (DU)

FLIGHT NUMBER: HU 856
 GMT DATE (YYMMDD): 03/15/14 LOCAL DATE: 03/15/14
 GMT LAUNCH TIME: 18:00 LOCAL TIME: 13:00
 Operator Initials: NLP

BALLOON SIZE: 1000 Grams: TOTEX _____ Hwoyee PAWAN _____ (v one)
 PAY-OFF-WEIGHT: 1700 Grams: Burst Alt: _____ (km) Turn/Burst: _____

O₃ sn: 2224670 O₃ CELL BACKGROUND (μ amps): 0.044 O₃ Ventilation Holes: (Y)N 1
 O₃ Flowrate: 29.50 (sec) O₃ Flowrate Correction: 2.67 (%)
 Radiosonde #: 25251 Freq: 403 (MHZ) If Vais RS-80, Pressure offset written on bag: _____ (hPa)
 NOAA FPH sn: _____
 Other instruments: _____

SURFACE PRES: 993.0 (hPa)
 SURFACE TEMP: 21.1 (C)
 SURFACE RH: 20.8 (%)

Sky Conditions: Mostly cloudy, with a high near 69. Calm Wind

REMARKS: _____