

January 2014 NEW

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 01/22/14
 INITIALS: NLP
 PUMP# (add x,y,z,R): 2224667
- Run zero air 10 minutes (v)
 - PUMP CURRENT: ~~710~~ 100,19
 - PUMP PRESSURE: 210
 - ENSCI Press/vac: 30/20 in Hg
 - Bypass cell (v)
 - Add 5-6cc cathode (v)
 - 30 MINUTES HI O₃ (v)
 - 3 MINUTES NO O₃ (v)
 - 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 = ~~87.83~~ 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: 35.24 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): 02/28/2014

- RUN 5 MINS on NO O₃ (v)
- RECORD CURRENT: 0.075 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: 31.44 sec
- Short cell leads and Store in Styrofoam flight box: (v)

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

DATE (LOCAL): 03/08/2014
INITIALS: NLP

T100 FLOWRATE TIMES:

- 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 = 0.039 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: 28.53 sec
- RECORD: 5 - T100 FLOWRATE TIMES:

ROOM TEMP (C): 18.0, ROOM RH (%): 31%
 Flowrate Correction: 2.86 (%)
 FLOWRATE #1: 29.66 sec
 FLOWRATE #2: 29.53 sec
 FLOWRATE #3: 29.69 sec
 FLOWRATE #4: 29.57 sec
 FLOWRATE #5: 29.65 sec
 AVERAGE T100: 29.62 sec

DAY OF FLIGHT @ THE LAUNCH SITE.

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

FLIGHT NUMBER: HU 855
 GMT DATE (YYMMDD): 03/08/2014 LOCAL DATE: 03/08/2014
 GMT LAUNCH TIME: 19:00 LOCAL TIME: 13:00
 Operator Initials: NLP

BALLOON SIZE: 1200 Grams: TOTEX _____ Hwoyee PAWAN _____ (v one)
 PAY-OFF-WEIGHT: 1700 Grams: Burst Alt: 35.99 (km) Turn/Burst: _____

O₃ sn: 2224667 O₃ CELL BACKGROUND (μamps): 0.039 O₃ Ventilation Holes: 0/N 1
 O₃ Flowrate: 29.62 (sec) O₃ Flowrate Correction: 2.86 (%)
 Radiosonde #: 21015 Freq: 403 (MHz) If Vais RS-80, Pressure offset written on bag: _____ (hPa)
 NOAA FPH sn: _____
 Other instruments: _____

SURFACE PRES: 995.1 (hPa)
 SURFACE TEMP: 19.7 (C)
 SURFACE RH: 35.8 (%)

Sky Conditions: _____
 REMARKS: Mostly sunny with a high near 68. Southwest wind 5 to 10 mph. per NOAA