

January 2014 NEW

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 3/22/2014
 INITIALS: WTC
 PUMP# (add x,y,z,R): 2325892
- Run zero air 10 minutes (v)
 - PUMP CURRENT: 106.03
 - PUMP PRESSURE: >10
 - ENSCI Press/vac: 25/20.4
 - 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 #
 - ADD 1.5 CC ANODE SOLUTION: (v)
 - RUN 10 MINUTES on NO O₃ (v)
 - RECORD CURRENT: BG = 0.273 μ amps
 - 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: 52.91 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): 3/26/2014

- RUN 5 MINS on NO O₃ (v)
- RECORD CURRENT: 0.091 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: 28.99 sec
- Short cell leads and Store in Styrofoam flight box: (v)

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

DATE (LOCAL): 04/03

INITIALS: BH

- Cathode solution # or date written on bottle: 08/13/2013
- 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: BGI = 0.085 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: 45.22 sec
- RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 18, ROOM RH (%): 24
 Flowrate Correction: 1.39 (%)
 FLOWRATE #1: 29.05 sec
 FLOWRATE #2: 29.39 sec
 FLOWRATE #3: 28.64 sec
 FLOWRATE #4: 28.71 sec
 FLOWRATE #5: 28.14 sec
 AVERAGE T100: 29.47 sec

wet: 29.32, 29.17, 29.34/29.28

dry: 28.82, 28.92, 28.89/28.88

DAY OF FLIGHT @ THE LAUNCH SITE.

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

FLIGHT NUMBER: HU859

GMT DATE (YYMMDD): 140405

LOCAL DATE: 4/5/2014

GMT LAUNCH TIME: 18:50

LOCAL TIME: 13:50

Operator Initials: WTC

BALLOON SIZE: 1000 Grams: TOTEX _____ Hwoyee PAWAN _____ (v one)

PAY-OFF-WEIGHT: 1200 Grams: Burst Alt: _____ (km) Turn/Burst: _____

O₃ sn: 2225892 O₃ CELL BACKGROUND (μ amps): 0.085 O₃ Ventilation Holes: (Y/N) N

O₃ Flowrate: 29.47 (sec) O₃ Flowrate Correction: 1.39 (%)

Radiosonde #: 21095 Freq: 403 (MHz) If Vais RS-80, Pressure offset written on bag: _____ (hPa)

NOAA FPH sn: _____

Other instruments: _____

SURFACE PRES: _____ (hPa)

SURFACE TEMP: _____ (C)

SURFACE RH: _____ (%)

Sky Conditions: _____

REMARKS: _____