

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 10/15/13
 INITIALS: RWS
 PUMP#: 2229105
- Run zero air 10 minutes (✓)
 - PUMP CURRENT: 86.97 (mA)
 - PUMP PRESSURE: 711 (psi)
 - DMT Press/vac: 28 / 20 (in Hg)
 - Bypass cell (✓)
 - Add 5-6cc cathode (✓)
 - 30 MINUTES HI O₃ (✓)
 - 3 MINUTES NO O₃ (✓)
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- DUMP CATHODE RINSE: (✓)
 - ADD 3.0 CC FRESH CATHODE #: 261
 - ADD 1.5 CC ANODE SOLUTION: (✓)
 - RUN 10 MINUTES on NO O₃ (✓)
 - RECORD CURRENT BEFORE O₃: BG = 0.270 μA
 - RUN 10 MINS on 5 μA O₃ (✓) - then switch to NO O₃ AIR.
 - RECORD: TIME TO DROP FROM 4 TO 1.5 μA: 55 sec.
 - Run sonde for 10 mins on NO O₃ (✓)
 - RECORD CURRENT: BG = 0.248 μA
 - Short the cell leads: (✓)
 - Intake tube stored in sonde frame: (✓)
 - Place Sonde inside plastic bag: (✓)
 - Store inside Styrofoam flight box: (✓)

AFTER 1 WEEK: REPLACE SOLUTIONS: DATE (LOCAL): 10/22/13

- RUN 5 MINS on NO O₃ (✓)
- RECORD CURRENT: 0.146 μamps
- RUN 5 MINS on 5 μamps O₃ (✓) - then switch to NO O₃ AIR
- RECORD TIME TO DROP FROM 4 TO 1.5 μamps: 29.57 sec
- Short cell leads and Store in Styrofoam flight box: (✓)

FLIGHT PREPARATION IN LAB.

- DATE (LOCAL): 10/31/13
 INITIALS: RWS
- Cathode solution # or date written on bottle: 261
 - CHANGE CATHODE SOLUTION (3cc): (✓)
 - CHANGE ANODE SOLUTION (1.5cc): (Yes/No)
 - RUN ON NO O₃ FOR 10 MINUTES: (✓)
 - RECORD THE NO O₃ BACKGRND#1: BG1 = 0.063 μamps
 - RUN ON 5 microamps of O₃ for 10 Minutes: (✓)
 - SWITCH TO NO O₃ AIR
 - RECORD: DECAY TIME TO DROP FROM 4 TO 1.5 μamps: 34.29 sec
 - RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 20.4, ROOM RH (%): 33

Flowrate Correction: 1.97 (%)

FLOWRATE #1:	<u>29.14</u>	sec
FLOWRATE #2:	<u>29.17</u>	sec
FLOWRATE #3:	<u>29.78</u>	sec
FLOWRATE #4:	<u>29.00</u>	sec
FLOWRATE #5:	<u>29.07</u>	sec
AVERAGE T100:	<u>29.092</u>	sec

	<u>27.92</u>	<u>27.97</u>	<u>28.01</u>	<u>27.97</u>	avg
dry					
wet	<u>28.65</u>	<u>28.44</u>	<u>28.46</u>	<u>28.52</u>	

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU941
 GMT DATE (YYMMDD): 10/31/13 LOCAL DATE: 10/31/13
 GMT LAUNCH TIME: 1:05 LOCAL TIME: 1:05 PM
 Operator Initials: RWS

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

O₃ sn: _____ O₃ CELL BACKGROUND (μamps): 0.063 O₃ Ventilation Holes: 2
 O₃ Flowrate: 29.07 (sec) O₃ Flowrate Correction: 1.97 (%)

Radiosonde sn: 35574 Freq: _____ (MHz)

NOAA FPH sn: _____ (if using Frost Point Hygrometer.)

SURFACE PRES: _____ (hPa)
 SURFACE TEMP: _____ (C)
 SURFACE RH: _____ (%)

Sky Conditions: _____

REMARKS: _____