

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 9/10/2015
 INITIALS: NL
 PUMP#: 2228741
- Run zero air 10 minutes (✓)
 - PUMP CURRENT: 94.75 (mA)
 - PUMP PRESSURE: 211 (psi)
 - DMT Press/vac: 30.121 (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 # 258
 - ADD 1.5 CC ANODE SOLUTION: (✓)
 - RUN 10 MINUTES on NO O₃ (✓)
 - RECORD CURRENT BEFORE O₃: BG = .411 μA
 - RUN 10 MINS on 5 μA O₃ (✓) - then switch to NO O₃ AIR.
 - RECORD: TIME TO DROP FROM 4 TO 1.5 μA: 42.52 sec.
 - Run sonde for 10 mins on NO O₃ (✓)
 - RECORD CURRENT: BG = 3.73 uA
 - 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): 9-17-2015

- RUN 5 MINS on NO O₃ (✓)
- RECORD CURRENT: .083 μamps
- RUN 5 MINS on 5 μamps O₃ (✓) - then switch to NO O₃ AIR
- RECORD TIME TO DROP FROM 4 TO 1.5 μamps: 25.07 sec
- Short cell leads and Store in Styrofoam flight box: (✓)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 9/26/2015
INITIALS: BW

- Cathode solution # or date written on bottle: Sept 9, 2015
- CHANGE CATHODE SOLUTION (3cc): (✓)
- CHANGE ANODE SOLUTION (1.5cc): Yes (Yes/No)
- RUN ON NO O₃ FOR 10 MINUTES: (✓)
- RECORD THE NO O₃ BACKGRND#1: BG1 = 0.045 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: 23.27 sec
- RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 23.5, ROOM RH (%): 58

- Flowrate Correction: 1.2 (%)
- FLOWRATE #1: 29.77 sec
 FLOWRATE #2: 29.75 sec
 FLOWRATE #3: 29.63 sec
 FLOWRATE #4: 29.66 sec
 FLOWRATE #5: 29.77 sec

AVERAGE T100: 29.72 sec

| | 1 | 2 | 3 | average |
|-----|-------|-------|-------|---------|
| dry | 28.02 | 28.10 | 28.11 | 28.11 |
| wet | 28.46 | 28.43 | 28.49 | 28.46 |

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU936
 GMT DATE (YYMMDD): 150926 LOCAL DATE: 150926
 GMT LAUNCH TIME: 6:00 PM LOCAL TIME: 6:00 PM

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

O₃ sn: _____ O₃ CELL BACKGROUND (μamps): _____ O₃ Ventilation Holes: _____
 O₃ Flowrate: _____ (sec) O₃ Flowrate Correction: _____ (%)
 Radiosonde sn: _____ Freq: _____ (MHz)
 NOAA FPH sn: _____ (if using Frost Point Hygrometer.)

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

Sky Conditions: _____
 REMARKS: _____