

July 2, 2014

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 1-23-15
 INITIALS: BW
 PUMP#: 2321701
- Run zero air 10 minutes (✓)
 - PUMP CURRENT: 89.63 (mA)
 - PUMP PRESSURE: >10 (psi)
 - DMT Press/vac: 28 / 21 (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 # (✓)
 - ADD 1.5 CC ANODE SOLUTION: (✓)
 - RUN 10 MINUTES on NO O₃ (✓)
 - RECORD CURRENT BEFORE O₃: BG = 0.097 μA
 - RUN 10 MINS on 5 μA O₃ (✓) - then switch to NO O₃ AIR.
 - RECORD: TIME TO DROP FROM 4 TO 1.5 μA: 27.27 sec.
 - Run sonde for 10 mins on NO O₃ (✓)
 - RECORD CURRENT: BG = 0.143 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): 1-30-15
- RUN 5 MINS on NO O₃ (✓)
 - RECORD CURRENT: .079 μamps
 - RUN 5 MINS on 5 μamps O₃ (✓) - then switch to NO O₃ AIR
 - RECORD TIME TO DROP FROM 4 TO 1.5 μamps: 25.01 sec
 - Short cell leads and Store in Styrofoam flight box: (✓)

FLIGHT PREPARATION IN LAB.

- DATE (LOCAL): 2-7-15
 INITIALS: BW
- Cathode solution # or date written on bottle: Dec 1, 2014
 - 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 = 0.013 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: 27.59 sec
 - RECORD: 5 - T100 FLOWRATE TIMES:
- T100 FLOWRATE TIMES:
- ROOM TEMP (C): 15.6, ROOM RH (%): 17
- Flowrate Correction: 1.7 (%)
- FLOWRATE #1: 28.78 sec
 FLOWRATE #2: 28.63 sec
 FLOWRATE #3: 28.80 sec
 FLOWRATE #4: 28.74 sec
 FLOWRATE #5: 28.68 sec
- AVERAGE T100: 28.73 sec
- | | | | | |
|-----|-------|-------|-------|---------|
| | 1 | 2 | 3 | Average |
| dry | 28.93 | 28.86 | 28.87 | 28.89 |
| wet | 29.39 | 29.43 | 29.35 | 29.39 |

DAY OF FLIGHT @ THE LAUNCH SITE.

- FLIGHT NUMBER: HU903
 GMT DATE (YYMMDD): 2-7-15 LOCAL DATE: 2-7-15
 GMT LAUNCH TIME: 7:06 LOCAL TIME: 1:06
 Operator Initials: RT, 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: this sonde connection isn't stable.
3 GPS didn't work well.
computer crashed between 400-1000m alt.