

July 2, 2014

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 6-26-15
INITIALS: chc
PUMP#: 2228721
- Run zero air 10 minutes (v)
 - PUMP CURRENT: 89.47 (mA)
 - PUMP PRESSURE: 710 (psi)
 - DMT Press/vac: 26/20 (in Hg)
 - 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 # 258
 - ADD 1.5 CC ANODE SOLUTION: (v)
 - RUN 10 MINUTES on NO O₃ (v)
 - RECORD CURRENT BEFORE O₃: BG = .116 μA
 - RUN 10 MINS on 5 μA O₃ (v) - then switch to NO O₃ AIR.
 - RECORD: TIME TO DROP FROM 4 TO 1.5 μA: 28.87 sec.
 - Run sonde for 10 mins on NO O₃ (v)
 - RECORD CURRENT: BG = .165 μA
 - Short the cell leads: (v)
 - Intake tube stored in sonde frame: (v)
 - Place Sonde inside plastic bag: (v)
 - Store inside Styrofoam flight box: (v)

AFTER 1 WEEK: REPLACE SOLUTIONS: DATE (LOCAL): 7/2/15

- RUN 5 MINS on NO O₃ (v)
- RECORD CURRENT: .069 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: 21.55 sec
- Short cell leads and Store in Styrofoam flight box: (v)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 7/11/15
INITIALS: chc

- Cathode solution # or date written on bottle: 258
- CHANGE CATHODE SOLUTION (3cc): 258 (v)
- CHANGE ANODE SOLUTION (1.5cc): (Yes/No)
- RUN ON NO O₃ FOR 10 MINUTES: (v)
- RECORD THE NO O₃ BACKGRND#1: BG1 = .025 μamps
- RUN ON 5 microamps of O₃ for 10 Minutes: (v)
- SWITCH TO NO O₃ AIR
- RECORD: DECAY TIME TO DROP FROM 4 TO 1.5 μamps: 20.01 sec
- RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 25.5, ROOM RH (%): 59%
Flowrate Correction: 2.34 (%)

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|---------------|---------------|--------------|--------------|--------------|
| FLOWRATE #1: | <u>28.54</u> | sec | | |
| FLOWRATE #2: | <u>28.29</u> | sec | | |
| FLOWRATE #3: | <u>28.51</u> | sec | | |
| FLOWRATE #4: | <u>28.73</u> | sec | | |
| FLOWRATE #5: | <u>29.14</u> | sec | | |
| AVERAGE T100: | <u>28.642</u> | sec | | |
| wet | <u>28.42</u> | <u>28.56</u> | <u>28.63</u> | <u>28.53</u> |
| dry | <u>27.77</u> | <u>27.99</u> | <u>27.85</u> | <u>27.81</u> |

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU925
GMT DATE (YYMMDD): _____
GMT LAUNCH TIME: _____

LOCAL DATE: 7/11/15
LOCAL TIME: 1:00

Operator Initials: _____

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

O₃ sn: 2228721 O₃ CELL BACKGROUND (μamps): .025 O₃ Ventilation Holes: N
O₃ Flowrate: 28.642 (sec) O₃ Flowrate Correction: 2.34 (%)
Radiosonde sn: 28456 Freq: 903 (MHz)

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

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

Sky Conditions: _____

REMARKS: The times on the flowrate are accurate. I have tried to adjust reset the capacitor because the cathode was spewing into the air pipe, which has soap residue, and I was afraid this would bubble back into the cell. I'm going with the measured numbers.