

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 7/10/14
 INITIALS: CLC
 PUMP#: 272641
- Run zero air 10 minutes (✓)
 - PUMP CURRENT: 95.64 (mA)
 - PUMP PRESSURE: 710 (psi)
 - DMT Press/vac: 25 / 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 # 244
 - ADD 1.5 CC ANODE SOLUTION: (✓)
 - RUN 10 MINUTES on NO O₃ (✓)
 - RECORD CURRENT BEFORE O₃: BG = 0.139 μ A
 - RUN 10 MINS on 5 μ A O₃ (✓) - then switch to NO O₃ AIR.
 - RECORD: TIME TO DROP FROM 4 TO 1.5 μ A: 34.80 sec.
 - Run sonde for 10 mins on NO O₃ (✓)
 - RECORD CURRENT: BG = 0.206 μ A
 - 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): 7/17/14

- RUN 5 MINS on NO O₃ (✓)
- RECORD CURRENT: 0.183 μ amps
- RUN 5 MINS on 5 μ amps O₃ (✓) - then switch to NO O₃ AIR
- RECORD TIME TO DROP FROM 4 TO 1.5 μ amps: 25.6 sec
- Short cell leads and Store in Styrofoam flight box: (✓)

FLIGHT PREPARATION IN LAB.

- DATE (LOCAL): 7-26-14
 INITIALS: CLC
- Cathode solution # or date written on bottle: 244
 - 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 = .054 μ amps
 - RUN ON 5 microamps of O₃ for 10 Minutes: (✓)
 - SWITCH TO NO O₃ AIR
 - RECORD: DECAY TIME TO DROP FROM 4 TO 1.5 μ amps: 23.49 sec
 - RECORD: 5 - T100 FLOWRATE TIMES:
- T100 FLOWRATE TIMES:
 ROOM TEMP (C): 24.2, ROOM RH (%): 38
 Flowrate Correction: 1.4 (%)
- | | |
|---------------|-------------------|
| FLOWRATE #1: | <u>29.19</u> sec |
| FLOWRATE #2: | <u>29.28</u> sec |
| FLOWRATE #3: | <u>29.23</u> sec |
| FLOWRATE #4: | <u>29.19</u> sec |
| FLOWRATE #5: | <u>29.23</u> sec |
| AVERAGE T100: | <u>29.224</u> sec |
- dry | 27.42 | 27.33 | 27.34
 wet | 27.73 | 27.68 | 27.73 | 27.7133

DAY OF FLIGHT @ THE LAUNCH SITE.

- FLIGHT NUMBER: HU876
 GMT DATE (YYMMDD): 7-26-14 LOCAL DATE: 7-26-14
 GMT LAUNCH TIME: 17:51 LOCAL TIME: 12:51
 Operator Initials: CLC Keymont
- BALLOON SIZE: 800 Grams: _____ TOTEX _____ Hwoyee _____ PAWAN _____ (✓ one)
 PAY-OFF-WEIGHT: _____ Grams: _____ Burst Alt: 30 km Turn/Burst: _____
- O₃ sn: 2726241 O₃ CELL BACKGROUND (μ amps): 0.054 O₃ Ventilation Holes: 4
 O₃ Flowrate: 29.224 (sec) O₃ Flowrate Correction: 1.4 (%)
- Radiosonde sn: 26670 Freq: 403 (MHz)
- NOAA FPH sn: _____ (if using Frost Point Hygrometer.)
- SURFACE PRES: 992 (hPa)
 SURFACE TEMP: _____ (C)
 SURFACE RH: _____ (%)
- Sky Conditions: Clear
- REMARKS: _____