

DIGITAL OZONESONDE CHECKLIST

July 2, 2014

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 8-14-14
 INITIALS: CLC
 PUMP#: 2622458
- Run zero air 10 minutes 83.1 (✓)
 - PUMP CURRENT: 83.16 (mA)
 - PUMP PRESSURE: 210 (psi)
 - DMT Press/vac: 28 / 21 (in Hg)
 - Bypass cell ✓ (✓)
 - Add 5-6cc cathode ✓ (✓)
 - 30 MINUTES HI O₃ ✓ (✓)
 - 3 MINUTES NO O₃ ✓ (✓)
 - 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 = 0.191 μA
 - RUN 10 MINS on 5 μA O₃ 35.56 (✓) - then switch to NO O₃ AIR.
 - RECORD: TIME TO DROP FROM 4 TO 1.5 μA: 35.56 sec.
 - Run sonde for 10 mins on NO O₃ ✓ (✓)
 - RECORD CURRENT: BG = 0.190 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): 8-21-14

- RUN 5 MINS on NO O₃ ✓ (✓)
- RECORD CURRENT: 0.122 μamps
- RUN 5 MINS on 5 μamps O₃ ✓ (✓) - then switch to NO O₃ AIR
- RECORD TIME TO DROP FROM 4 TO 1.5 μamps: 30.60 sec
- Short cell leads and Store in Styrofoam flight box: ✓ (✓)

FLIGHT PREPARATION IN LAB.

- DATE (LOCAL): 8-30-14
 INITIALS: BW
- Cathode solution # or date written on bottle: Jan 13, 2014 244
 - 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 = 0.057 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: 24.89 sec
 - RECORD: 5 - T100 FLOWRATE TIMES:
- T100 FLOWRATE TIMES:
 ROOM TEMP (C): 24.1 ROOM RH (%): 49%
 Flowrate Correction: 1.2% (%)
- FLOWRATE #1: 28.51 sec
 FLOWRATE #2: 28.51 sec
 FLOWRATE #3: 28.47 sec
 FLOWRATE #4: 28.55 sec
 FLOWRATE #5: 28.57 sec
- AVERAGE T100: 28.52 sec
 dry 27.36 27.21 27.13 27.23
 wet 27.59 27.53 27.57 27.56

DAY OF FLIGHT @ THE LAUNCH SITE.

- FLIGHT NUMBER: HU880
 GMT DATE (YYMMDD): 8-30-14 LOCAL DATE: 8-30-14
 GMT LAUNCH TIME: 6:22 LOCAL TIME: 1:22
 Operator Initials: QO
- BALLOON SIZE: 800 Grams: TOTEX ✓ Hwoyee _____ PAWAN _____ (✓ one)
 PAY-OFF-WEIGHT: _____ Grams: Burst Alt: 32000 (km) Turn/Burst: _____
- O₃ sn: 2622458 O₃ CELL BACKGROUND (μamps): 0.057 O₃ Ventilation Holes: Y
 O₃ Flowrate: 28.52 (sec) O₃ Flowrate Correction: 1.2 (%)
 Radiosonde sn: 818545 Freq: 403 (MHz)
- NOAA FPH sn: _____ (if using Frost Point Hygrometer.)
- SURFACE PRES: _____ (hPa)
 SURFACE TEMP: _____ (C)
 SURFACE RH: _____ (%)
- Sky Conditions: _____
- REMARKS: _____