

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 12/10/2015
INITIALS: NL
PUMP#: 2329167
- Run zero air 10 minutes (✓)
 - PUMP CURRENT: 113.32 (mA)
 - PUMP PRESSURE: 211 (psi)
 - DMT Press/vac: 30/19 (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 # 261
 - ADD 1.5 CC ANODE SOLUTION: (✓)
 - RUN 10 MINUTES on NO O₃ (✓)
 - RECORD CURRENT BEFORE O₃: BG = 267 μA
 - RUN 10 MINS on 5 μA O₃ (✓) - then switch to NO O₃ AIR.
 - RECORD: TIME TO DROP FROM 4 TO 1.5 μA: 45.73 sec.
 - Run sonde for 10 mins on NO O₃ (✓)
 - RECORD CURRENT: BG = 246 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): 12/17/2015
- RUN 5 MINS on NO O₃ (✓)
 - RECORD CURRENT: 099 μamps
 - RUN 5 MINS on 5 μamps O₃ (✓) - then switch to NO O₃ AIR
 - RECORD TIME TO DROP FROM 4 TO 1.5 μamps: 29.22 sec
 - Short cell leads and Store in Styrofoam flight box: (✓)

FLIGHT PREPARATION IN LAB.

- DATE (LOCAL): NL 1/2/2016
INITIALS: NL
- Cathode solution # or date written on bottle: 261
 - 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 = 038 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: 27.5 sec
 - RECORD: 5 - T100 FLOWRATE TIMES:
- T100 FLOWRATE TIMES:
ROOM TEMP (C): 19.1, ROOM RH (%): 24
Flowrate Correction: 2.8 (%)
- | | |
|---------------|------------------|
| FLOWRATE #1: | <u>30.09</u> sec |
| FLOWRATE #2: | <u>30.07</u> sec |
| FLOWRATE #3: | <u>30.04</u> sec |
| FLOWRATE #4: | <u>30.10</u> sec |
| FLOWRATE #5: | <u>30.12</u> sec |
| AVERAGE T100: | <u>30.8</u> sec |
- | | | | | |
|-----|-------|-------|-------|---------|
| | 1 | 2 | 3 | Average |
| dry | 27.85 | 27.84 | 27.78 | 27.82 |
| wet | 28.60 | 28.64 | 28.57 | 28.60 |

DAY OF FLIGHT @ THE LAUNCH SITE.

- FLIGHT NUMBER: HU949
GMT DATE (YYMMDD): 160102 LOCAL DATE: 160102
GMT LAUNCH TIME: _____ LOCAL TIME: 1:02PM
Operator Initials: BW, NL
- 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: _____