

FLT # H0933

July 2, 2014

NOAA Earth System Research L
DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 8/17/2015
 INITIALS: NL
 PUMP#: 1328726
- Run zero air 10 minutes (✓)
 - PUMP CURRENT: 95.81 (mA)
 - PUMP PRESSURE: 711 (psi)
 - DMT Press/vac: 26.19 (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 # 258
 - ADD 1.5 CC ANODE SOLUTION: (✓)
 - RUN 10 MINUTES on NO O₃ (✓)
 - RECORD CURRENT BEFORE O₃: BG = 245 μA
 - RUN 10 MINS on 5 μA O₃ (✓) - then switch to NO O₃ AIR.
 - RECORD: TIME TO DROP FROM 4 TO 1.5 μA: 41.48 sec.
 - Run sonde for 10 mins on NO O₃ (✓)
 - RECORD CURRENT: BG = 240 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): 8/27/2015
- RUN 5 MINS on NO O₃ (✓)
 - RECORD CURRENT: 2098 μamps
 - RUN 5 MINS on 5 μamps O₃ (✓) - then switch to NO O₃ AIR
 - RECORD TIME TO DROP FROM 4 TO 1.5 μamps: 26.29 sec
 - Short cell leads and Store in Styrofoam flight box: (✓)

FLIGHT PREPARATION IN LAB.

- DATE (LOCAL): 9/5/2015
 INITIALS: NL
- Cathode solution # or date written on bottle: 258
 - 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 = 2025 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: 23.23 sec
 - RECORD: 5 - T100 FLOWRATE TIMES:
- T100 FLOWRATE TIMES:
 ROOM TEMP (C): 25.9, ROOM RH (%): 58
 Flowrate Correction: 1.35 (%)
- | | |
|---------------|------------------|
| FLOWRATE #1: | <u>29.77</u> sec |
| FLOWRATE #2: | <u>29.76</u> sec |
| FLOWRATE #3: | <u>29.79</u> sec |
| FLOWRATE #4: | <u>29.95</u> sec |
| FLOWRATE #5: | <u>29.73</u> sec |
| AVERAGE T100: | <u>29.80</u> sec |
- Avg
 Dry | 28.14 | 28.20 | 28.17 | 28.17
 Wet | 28.54 | 28.52 | 28.50 | 28.55

DAY OF FLIGHT @ THE LAUNCH SITE.

- FLIGHT NUMBER: H0933
 GMT DATE (YYMMDD): 9/15/2015 LOCAL DATE: 9/15/2015
 GMT LAUNCH TIME: 6:00pm LOCAL TIME: 1:00pm
 Operator Initials: NL
- BALLOON SIZE: 1000 Grams: TOTEX _____ Hwoyee _____ PAWAN (✓)
 PAY-OFF-WEIGHT: _____ Grams: Burst Alt: 32.4 (km) Turn/Burst: _____
- O₃ sn: _____ O₃ CELL BACKGROUND (μamps): 2025 O₃ Ventilation Holes: yes
 O₃ Flowrate: _____ (sec) O₃ Flowrate Correction: 1.35 (%)
 Radiosonde sn: 78440 Freq: 403 (MHz)
- NOAA FPH sn: _____ (if using Frost Point Hygrometer.)
- SURFACE PRES: 994.8 (hPa)
 SURFACE TEMP: 32.8 (C)
 SURFACE RH: 55.7 (%)
- Sky Conditions: _____
 REMARKS: _____