

July 2, 2014

NOAA Earth System Research Lab
DIGITAL OZONESONDE CHECKLIST

FLT # HU950

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 12/17/2015
- INITIALS: NL
- PUMP#: 2328727
- 1. Run zero air 10 minutes ✓ (✓)
- 2. PUMP CURRENT: 91.45 (mA)
- 3. PUMP PRESSURE: 210 (psi)
- 4. DMT Press/vac: 26 / 19 (in Hg)
- 5. Bypass cell ✓ (✓)
- 6. Add 5-6cc cathode ✓ (✓)
- 7. 30 MINUTES HI O₃ ✓ (✓)
- 8. 3 MINUTES NO O₃ ✓ (✓)

- 9. DUMP CATHODE RINSE: ✓ (✓)
- 10. ADD 3.0 CC FRESH CATHODE # 261
- 11. ADD 1.5 CC ANODE SOLUTION: ✓ (✓)
- 12. RUN 10 MINUTES on NO O₃ ✓ (✓)
- 13. RECORD CURRENT BEFORE O₃: BG = 240 μA
- 14. RUN 10 MINS on 5 μA O₃ ✓ (✓) - then switch to NO O₃ AIR.
- 15. RECORD: TIME TO DROP FROM 4 TO 1.5 μA: 42.89 sec.
- 16. Run sonde for 10 mins on NO O₃ ✓ (✓)
- 17. RECORD CURRENT: BG = 218 μA
- 18. Short the cell leads: ✓ (✓)
- 19. Intake tube stored in sonde frame: ✓ (✓)
- 20. Place Sonde inside plastic bag: ✓ (✓)
- 21. Store inside Styrofoam flight box: ✓ (✓)

- ✓ AFTER 1 WEEK: REPLACE SOLUTIONS: DATE (LOCAL): 1/1/2016
- 1. RUN 5 MINS on NO O₃ ✓ (✓)
 - 2. RECORD CURRENT: 1288 μamps
 - 3. RUN 5 MINS on 5 μamps O₃ ✓ (✓) - then switch to NO O₃ AIR
 - 4. RECORD TIME TO DROP FROM 4 TO 1.5 μamps: 29.38 sec
 - 5. Short cell leads and Store in Styrofoam flight box: ✓ (✓)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 1/09/16
INITIALS: JL

- 1. Cathode solution # or date written on bottle: 261
- 2. CHANGE CATHODE SOLUTION (3cc): ✓ (✓)
- 3. CHANGE ANODE SOLUTION (1.5cc): ✓ (Yes/No)
- 4. RUN ON NO O₃ FOR 10 MINUTES: ✓ (✓)
- 5. RECORD THE NO O₃ BACKGRND#1: BG1 = 240 μamps
- 6. RUN ON 5 microamps of O₃ for 10 Minutes: ✓ (✓)
- 7. SWITCH TO NO O₃ AIR
- 8. RECORD: DECAY TIME TO DROP FROM 4 TO 1.5 μamps: 27.43 sec
- 9. RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 20.0, ROOM RH (%): 38%
 Flowrate Correction: 3.82 (%)

FLOWRATE #1:	<u>28.89</u> sec
FLOWRATE #2:	<u>28.94</u> sec
FLOWRATE #3:	<u>28.87</u> sec
FLOWRATE #4:	<u>28.93</u> sec
FLOWRATE #5:	<u>28.99</u> sec
AVERAGE T100:	<u>28.864</u> sec

Avg

Dry	<u>27.7</u>	<u>27.82</u>	<u>28.01</u>	<u>27.842</u>
Wet	<u>28.82</u>	<u>28.93</u>	<u>28.97</u>	<u>28.906</u>

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: _____
 GMT DATE (YYMMDD): _____ LOCAL DATE: _____
 GMT LAUNCH TIME: _____ LOCAL TIME: _____
 Operator Initials: _____

BALLOON SIZE: _____ Grams: _____ TOTEX _____ Hwoyee _____ PAWAN _____ (✓ one)
 PAY-OFF-WEIGHT: _____ Grams: _____ Burst Alt: 109 (km) Turn/Burst: _____

O₃ sn: _____ O₃ CELL BACKGROUND (μamps): _____ O₃ Ventilation Holes: _____
 O₃ Flowrate: _____ (sec) O₃ Flowrate Correction: _____ (%)
 Radiosonde sn: 36169 Freq: 403 (MHz)

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

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

Sky Conditions: _____
 REMARKS: _____

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