

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 4/27/16
INITIALS: MG
PUMP#: 2730798
1. Run zero air 10 minutes (✓)
 2. PUMP CURRENT: 83.09 (mA)
 3. PUMP PRESSURE: 78 (psi)
 4. DMT Press/vac: 26.120 (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 # 262
 11. ADD 1.5 CC ANODE SOLUTION: (✓)
 12. RUN 10 MINUTES on NO O₃ (✓)
 13. RECORD CURRENT BEFORE O₃: BG = 0.326 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: 55.99 sec.
 16. Run sonde for 10 mins on NO O₃ (✓)
 17. RECORD CURRENT: BG = 0.271 uA
 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): 5/4/16

1. RUN 5 MINS on NO O₃ (✓)
2. RECORD CURRENT: 0.163 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: 29.00 sec
5. Short cell leads and Store in Styrofoam flight box: (✓)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 5/14/16
INITIALS: MG

1. Cathode solution # or date written on bottle: 262
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 = 0.055 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: 26.25 sec
9. RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 23.1, ROOM RH (%): 40

Flowrate Correction: 3.18 (%)

FLOWRATE #1: 29.14 sec

FLOWRATE #2: 29.09 sec

FLOWRATE #3: 29.17 sec

FLOWRATE #4: 29.15 sec

FLOWRATE #5: 29.10 sec

AVERAGE T100: 29.13 sec

Dry	<u>27.04</u>	<u>27.03</u>	<u>26.95</u>	<u>27.01</u>
Wet	<u>27.76</u>	<u>27.86</u>	<u>27.89</u>	<u>27.87</u>

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU969

GMT DATE (YYMMDD): 2016/05/14 LOCAL DATE: 5/14/16

GMT LAUNCH TIME: _____ LOCAL TIME: 2.00pm

Operator Initials: MG

BALLOON SIZE: 1000 Grams:

TOTEX _____ Hwoyee _____

PAWAN _____ (✓ one)

PAY-OFF-WEIGHT: _____ Grams:

Burst Alt: 27.0 (km)

Turn/Burst: _____

O₃ sn: _____ O₃ CELL BACKGROUND (μamps): _____ O₃ Flowrate: _____ (sec) O₃ Flowrate Correction: _____ (%)

O₃ Ventilation Holes: _____

Radiosonde sn: 35566 Freq: _____ (MHz)

Lost signal 11 km - 21.5 km

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

SURFACE PRES: _____ (hPa)

SURFACE TEMP: _____ (C)

SURFACE RH: _____ (%)

Sky Conditions: _____

REMARKS: _____