January 2014 NEW

NOAA Earth System Research Lab

DIGITAL OZONESONDE CHECKLIST

HU879

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

DATE (LOCAL): 8-6-14
INITIALS: CLC
PUMP# (add x,y,z,R): Z6Z2310

1. Run zero air 10 minutes ✓ (√)
2. PUMP CURRENT: 66.48
3. PUMP PRESSURE: 710
4. ENSCI Press/vac: ✓
5. Bypass cell ✓ (√)
6. Add 5-6cc cathode ✓ (√)
7. 30 MINUTES HI O_3 ✓ (√)
8. 3 MINUTES NO O_3 ✓ (√)

9. DUMP CATHODE RINSE: ✓ (√)
10. ADD 3.0 CC FRESH CATHODE # 244
11. ADD 1.5 CC ANODE SOLUTION: ✓ (√)
12. RUN 10 MINUTES on NO O_3 ✓ (√)
13. RECORD CURRENT: **BG** = 0.064 µamps
14. RUN 10 MINUTES on 5 µamps O_3 ✓ (√) - then switch to NO O_3 AIR.
15. **RECORD:** TIME TO DROP FROM 4 TO 1.5 µamps: 25.94 sec.
16. Run sonde for 10 minutes on NO O_3 AIR ✓ (√)
17. Short the cell leads: ✓ (√)
18. Intake tube stored in sonde frame: ✓ (√)
19. Place Instrument inside plastic bag: ✓ (√)
20. Store inside Styrofoam flight box: ✓ (√)

AFTER 1 WEEK: REPLACE SOLUTIONS: DATE (LOCAL): 8-14-14

1. RUN 5 MINS on NO O_3 ✓ (√)
2. RECORD CURRENT: 0.010 µamps
3. RUN 5 MINS on 5 µamps O_3 ✓ (√) – then switch to NO O_3 AIR
4. RECORD TIME TO DROP FROM 4 TO 1.5 µamps: 24.36 sec
5. Short cell leads and Store in Styrofoam flight box: ✓ (√)

FLIGHT PREPARATION IN LAB. (Under 24 hours to launch)

DATE (LOCAL): 8-23-2014
INITIALS: BW

1. Cathode solution # or date written on bottle: 244
2. CHANGE CATHODE SOLUTION (3cc): 1 (√)
3. CHANGE ANODE SOLUTION (1.5cc): Yes (Yes/No)
4. RUN ON NO O_3 FOR 10 MINUTES: ✓ (√)
5. RECORD THE NO O_3 BACKGRND#1: **BG1**= 0.007 µamps
6. RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)
7. SWITCH TO NO O_3 AIR.
8. **RECORD:** THE TIME TO DROP FROM 4 TO 1.5 µamps: 28.99 sec
9. **RECORD:** 5 – T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 25.1 ROOM RH (%): 52
Flowrate Correction: ~~27.80%~~ 1.0%

FLOWRATE #1: 27.89 sec
FLOWRATE #2: 27.94 sec
FLOWRATE #3: 27.83 sec
FLOWRATE #4: 27.99 sec
FLOWRATE #5: 27.97 sec
AVERAGE T100: 27.92 sec

	1	2	3	Avg
dry	27.47	27.37	27.22	27.353
wet	27.64	27.63	27.60	27.623

DAY OF FLIGHT @ THE LAUNCH SITE.

Results: O_3 Sonde TCO extrap: _____ (DU)
O_3 Sonde TCO SBUV: _____ (DU)

FLIGHT NUMBER: HU879
GMT DATE (YYMMDD): 14/8/23
GMT LAUNCH TIME: 6:45
LOCAL DATE: 1:43
LOCAL TIME: 1:45
Operator Initials: BW

BALLOON SIZE: 1200 Grams: TOTEX ___ Hwoyee ✓ PAWAN ___ (√ one)
PAY-OFF-WEIGHT: _____ Grams: Burst Alt: _____ (km) Turn/Burst: _____

O_3 sn: Z6Z2310 **O_3 CELL BACKGROUND (µamps):** .007 O_3 Ventilation Holes: (Y/N) Y
O_3 Flowrate: 27.92 (sec) **O_3 Flowrate Correction:** 1% (%)
Radiosonde #: 2672L Freq: 403 (MHz) If Vais **RS-80,** Pressure offset written on bag: _____ (hPa)
NOAA FPH sn: 26471
Other instruments: _____

SURFACE PRES: _____ (hPa)
SURFACE TEMP: _____ (C)
SURFACE RH: _____ (%)
Sky Conditions: _____
REMARKS: _____