July 2, 2014

NOAA Earth System Research Lab

DIGITAL OZONESONDE CHECKLIST

FLT # HU888

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

DATE (LOCAL): 10/8/14
INITIALS: CLC
PUMP#: Z7Z7548

1. Run zero air 10 minutes ✓ (√)
2. **PUMP CURRENT:** 93.61 **(mA)**
3. **PUMP PRESSURE:** 710 **(psi)**
4. **DMT Press/vac:** 28 / 20 **(in Hg)**
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 # 245
11. ADD 1.5 CC ANODE SOLUTION: ✓ (√)
12. RUN 10 MINUTES on NO O_3 ✓ (√)
13. **RECORD CURRENT BEFORE O3: BG =** .274 **µA**
14. RUN 10 MINS on 5 µA O_3 ✓ (√) - then switch to NO O_3 AIR.
15. **RECORD: TIME TO DROP FROM 4 TO 1.5 µA:** 37.19 **sec.**
16. Run sonde for 10 mins on NO O_3 ✓ (√)
17. **RECORD CURRENT: BG =** .307 **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): 10/15/14

1. RUN 5 MINS on NO O_3 ✓ (√)
2. RECORD CURRENT: .121 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: 26.21 sec
5. Short cell leads and Store in Styrofoam flight box: ✓ (√)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 10/25/14
INITIALS: CLC

1. Cathode solution # or date written on bottle: 245
2. CHANGE CATHODE SOLUTION (3cc): ✓ (√)
3. CHANGE ANODE SOLUTION (1.5cc): ✓ (Yes/No)
4. RUN ON NO O_3 FOR 10 MINUTES: ✓ (√)
5. RECORD THE NO O_3 BACKGRND#1: BG1= .045 µamps
6. RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)
7. SWITCH TO NO O_3 AIR
8. **RECORD:** DECAY TIME TO DROP FROM 4 TO 1.5 µamps: 24.33 sec
9. **RECORD:** 5 – T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 22.7, ROOM RH (%): 30
Flowrate Correction: 2.1 (%)

FLOWRATE #1: 28.96 sec
FLOWRATE #2: 28.93 sec
FLOWRATE #3: 28.89 sec
FLOWRATE #4: 28.97 sec
FLOWRATE #5: 28.88 sec
AVERAGE T100: 28.926 sec

					avg
wet	28.96	28.89	29.07	28.973	
dry	28.49	28.37	28.30	28.366	

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU888
GMT DATE (YYMMDD): 14/10/25
GMT LAUNCH TIME: 6:15
Operator Initials: CLC
BALLOON SIZE: 1200 Grams:
PAY-OFF-WEIGHT: _____ Grams:

LOCAL DATE: 14/10/25 10/25/14
LOCAL TIME: 1:15

TOTEX ___ Hwoyee ___ PAWAN ___ (√ one)
Burst Alt: _____ (km) Turn/Burst: _____

O_3 sn: Z7Z7548
O_3 Flowrate: 28.926 **(sec)**
O_3 CELL BACKGROUND (µamps): .045
O_3 Flowrate Correction: 2.1 **(%)**
O_3 Ventilation Holes: N

Radiosonde sn: 28366 Freq: 403 (MHz)

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

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

REMARKS: _____