U.S. DEPT. OF COMMERCE
NOAA Earth System Research Lab

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

FLT # HU929

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

DATE (LOCAL): 7/23/2015
INITIALS: BW
PUMP#: 2327860

1. Run zero air 10 minutes ✓ (√)
2. PUMP CURRENT: 104.67 (mA)
3. PUMP PRESSURE: 710 (psi)
4. DMT Press/vac: 26 / 28 (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 # ✓
11. ADD 1.5 CC ANODE SOLUTION: ✓ (√)
12. RUN 10 MINUTES on NO O_3 ✓ (√)
13. **RECORD CURRENT BEFORE O3: BG =** 0.227 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:** 33.87 sec.
16. Ruh sonde for 10 mins on NO O_3 ✓ (√)
17. **RECORD CURRENT: BG =** 0.245 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): 8/28/15

1. RUN 5 MINS on NO O_3 ✓ (√)
2. RECORD CURRENT: .081 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: 24.30 sec
5. Short cell leads and Store in Styrofoam flight box: ____ (√)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 8/8/15
INITIALS: NL

1. Cathode solution # or date written on bottle: 258
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= .051 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: 22.85 sec
9. **RECORD:** 5 – T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 25.7, ROOM RH (%): 57%
Flowrate Correction: 1.5 (%)
FLOWRATE #1: 29.80 sec
FLOWRATE #2: 29.85 sec
FLOWRATE #3: 29.83 sec
FLOWRATE #4: 30.03 sec
FLOWRATE #5: 29.95 sec
AVERAGE T100: 29.89 sec

				Avg
wet	28.87	28.78	28.68	28.776
dry	28.39	28.28	28.36	28.34

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU929
GMT DATE (YYMMDD): 150818
LOCAL DATE: 8/8/15
GMT LAUNCH TIME: 6:00Pm
LOCAL TIME: 1:00pm
Operator Initials: NL
BALLOON SIZE: 1200 Grams:
PAY-OFF-WEIGHT: _____ Grams:
TOTEX ___ Hwoyee ___ PAWAN ___ (√ one)
Burst Alt: 30.9 (km)
Turn/Burst: _____

O_3 sn: _____
O_3 Flowrate: _____ **(sec)**
O_3 CELL BACKGROUND (µamps): _____
O_3 Flowrate Correction: _____ **(%)**
O_3 Ventilation Holes: Yes

Radiosonde sn: 36153 Freq: 403 (MHz)

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

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