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

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

FLT # HU959

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

DATE (LOCAL): 2/15/2016
INITIALS: JL
PUMP#: 22289 31

1. Run zero air 10 minutes ✓ (√)
2. PUMP CURRENT: 103.51 (mA)
3. PUMP PRESSURE: >11 (psi)
4. DMT Press/vac: 30 / 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 # 262
11. ADD 1.5 CC ANODE SOLUTION: ✓ (√)
12. RUN 10 MINUTES on NO O_3 ✓ (√)
13. **RECORD CURRENT BEFORE O3: BG =** .249 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:** 41.37 **sec.**
16. Run sonde for 10 mins on NO O_3 ✓ (√)
17. **RECORD CURRENT: BG =** .219 **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): 2/16/16

1. RUN 5 MINS on NO O_3 ✓ (√)
2. RECORD CURRENT: .128 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: 26.78 sec
5. Short cell leads and Store in Styrofoam flight box: ✓ (√)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 3/5/2016
INITIALS: BW

1. Cathode solution # or date written on bottle: Oct 21, 2015
2. CHANGE CATHODE SOLUTION (3cc): ✓ (√)
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= 0.039 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: 25.82 sec
9. **RECORD:** 5 – T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 20.1, ROOM RH (%): 26
Flowrate Correction: 2.39 (%)
FLOWRATE #1: 29.27 sec
FLOWRATE #2: 29.10 sec
FLOWRATE #3: 29.24 sec
FLOWRATE #4: 29.27 sec
FLOWRATE #5: 29.16 sec
AVERAGE T100: 29.21 sec

	1	2	3	average
dry	28.43	28.56	28.22	28.40
wet	29.00	29.17	29.07	29.08

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU959
GMT DATE (YYMMDD): 160305 LOCAL DATE: 160305
GMT LAUNCH TIME: _____ LOCAL TIME: 1:00PM
Operator Initials: BW MG
BALLOON SIZE: 1200 Grams: TOTEX ___ Hwoyee ___ PAWAN ___ (√ one)
PAY-OFF-WEIGHT: _____ Grams: Burst Alt: _____ (km) Turn/Burst: _____

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

Radiosonde sn: _____ Freq: _____ (MHz)

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

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