U.S. DEPT. OF C. MERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
CLIMATE MONITORING AND DIAGNOSTICS LABORATORY

FLT# 2cc43

June 2004 DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 7-1-2004
INITIALS: SH
PUMP NUMBER: 123559

1. Run zero air 10 minutes ✓ (√)
2. PUMP CURRENT: 85.4
3. PUMP PRESSURE: 13
4. PUMP VAC: 25
5. 30 MINUTES IN O_3 ✓ (√)
6. 5-10 MINUTES NO O_3 ✓ (√)

7. ADD 3.0 CC FRESH CATHODE: ✓ (√)
8. WAIT 2 Minutes ✓ (√)
9. ADD 1.5 CC ANODE SOLUTION: ✓ (√)
10. RUN 10 MINUTES on NO O_3 ✓ (√)
11. RECORD CURRENT: = 0.52 μamps
12. RUN 10 MINUTES on 5 μamps O_3 ✓ (√) - then switch to NO O_3 AIR.
13. RECORD: TIME TO DROP FROM 4 TO 1.5 μamps: 52 sec.
14. Run sonde for 10 minutes on NO O_3 AIR ✓ (√)
15. Short the cell leads: ✓ (√)
16. Add about 2 to 2.5 CC more Cathode Solution ✓ (√)
17. Place Instrument inside plastic bag: ✓ (√)
18. Store inside Styrofoam flight box: ✓ (√)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 7-30-2004
INITIALS: SH
Cathode solution # or date written on bottle: 6/24/04
CHANGE CATHODE SOLUTION (3cc): ✓ (√)
CHANGE ANODE SOLUTION (1.5cc): ✓ (√)
RUN ON NO O_3 FOR 5 MINUTES: ✓ (√)
RECORD THE NO O_3 BACKGRND#1: BG1= 0 μamps
RUN ON 5 microamps of O_3 for 5 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 34.44 sec.
FLOWRATE #2: 26.67
FLOWRATE #3: 35.54
FLOWRATE #4: 24.00
FLOWRATE #5 24.72
AVERAGE T100: 28.32

DRY T100
#1:
#2:
#3:
DRY AVG:

WET T100
#1:
#2:
#3:
WET AVG:

RESONSE TIME:
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 22.15 sec.
RECORD: ROOM TEMP (C) 20.3 ROOM REL. HUMID. (%) 52
RECORD: 5 - T100 FLOWRATE TIMES:
*T100 Flowrate correction: 0 %

SONDE= ppbv @ CALIB=

DAY OF FLIGHT @ THE LAUNCH SITE

FLIGHT NUMBER: 2cc43
GMT DATE (YYMMDD): 040710
LOCAL DATE: 040710
GMT LAUNCH TIME:
LOCAL TIME:

BALLOON TYPE 350 Gram: Kaymont ✓ Scientific Sales: (√ one)

O_3 BACKGROUND (μamps or HEX value in Y channel): 0.04

VAISALA NUMBER (9 digit): T8150443
SURFACE PRESSURE: 826.7 hPa
SURFACE TEMP. (C): 25.8 °C
SURFACE HUMIDITY: 71 %
SKY CONDITIONS: clear
~ BURST PRESSURE (mb): 28.8 mb

REMARKS:

Ventilation Holes:

weighoff = 5.002 grams
Store with Area 1

*T100 flow corr (%) = [(WET/DRY)-1.0] X 100