U.S. DEPT. OF COMM. E
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
CLIMATE MONITORING AND DIAGNOSTICS LABORATORY

FLT # HU492

DIGITAL OZONESONDE CHECKLIST

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 1-12-08
INITIALS: DLN
PUMP NUMBER: 227298

PUMP CURRENT: 75.22
PUMP PRESSURE: 9
PUMP VACUUM: 22

30 MINUTES HI O_3 ✓(√)
5 MINUTE NO O_3 ✓(√)

ADD 3.0 CC CATHODE SOLUTION: ✓(√)
WAIT 2 MINUTES: ✓(√)
ADD 1.5 CC ANODE SOLUTION: ✓(√)
RUN 20 MINUTES ON NO O_3 ✓(√)

Short the cell leads: ✓(√)
Add about 2.5 CC more Cathode Solution (2Z) ✓(√)
Place Instrument inside plastic bag: ✓(√)
Store inside Styrofoam flight box: ✓(√)

Record the current after the 20 MINUTES ON NO O_3: = 0.238 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 1-26-08
INITIALS: DLN
Cathode solution date written on bottle: 8-24-07
CHANGE CATHODE SOLUTION (3cc) : ✓ (√)
CHANGE ANODE SOLUTION (1.5cc): ✓ (Yes/No)
RUN ON NO O_3 FOR 5 MINUTES: ✓ (√)
RECORD THE NO O_3 BACKGRND#1: **BG1=** 0.015 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.23 sec
FLOWRATE #2: 29.15
FLOWRATE #3: 29.21
FLOWRATE #4: 29.29
FLOWRATE #5 29.31
AVERAGE T100: 29.24

DRY T100
#1: 28.17
#2: 28.24
#3: 28.43
DRY AVG: 28.28

WET T100
#1: 28.93
#2: 28.97
#3: 29.04
WET AVG: 28.98

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 24.81 sec.
RECORD: ROOM TEMP (C) 18 ROOM REL. HUMID. (%) 24
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction** 2.48 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU492
GMT DATE : 1-26-08
GMT LAUNCH TIME : 19:09:06

LOCAL DATE: 1-26-08
LOCAL TIME: 13:09:06

BALLOON TYPE _____ **Gram :** Kaymont___ Scientific Sales___ (√ one)

O_3 BACKGROUND (µamps from F9 key): 0.015

VAISALA NUMBER (9 digit): 516101708
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY : _____

SKY CONDITIONS: Overcast & rain

~ BURST PRESSURE (mb) : 9.734
30.83

REMARKS: _____

weighoff = _____ grams

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