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

FLT # HU501

DIGITAL OZONESONDE CHECKLIST **Huntsville**

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 03/15/08
INITIALS: SL
PUMP NUMBER: 227420

PUMP CURRENT: 89.18
PUMP PRESSURE: >10
PUMP VACUUM: 23

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: = 0.308 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 3/26/08
INITIALS: SL
Cathode solution date written on bottle: 8/24/08
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**= 0.006 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.36 sec
FLOWRATE #2: 28.34
FLOWRATE #3: 28.36
FLOWRATE #4: 28.29
FLOWRATE #5 28.36
AVERAGE T100: 28.342

DRY T100
#1: 28.31
#2: 28.29
#3: 28.34
DRY AVG: 28.313

WET T100
#1: 28.66
#2: 28.72
#3: 28.83
WET AVG: 28.736

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 26.03 sec.
RECORD: ROOM TEMP (C) 22 ROOM REL. HUMID. (%) 19
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction** 1.49 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU501
GMT DATE : 03/26/08
GMT LAUNCH TIME : 16:15:47
LOCAL DATE: 03/26/08
LOCAL TIME: 10:15:47

BALLOON TYPE 1200 **Gram :** Kaymont ✓ Scientific Sales____ (√ one)

O_3 BACKGROUND (µamps from F9 key): 0.006

VAISALA NUMBER (9 digit): 32030313
SURFACE PRESSURE:
SURFACE TEMP. (C):
SURFACE HUMIDITY :

SKY CONDITIONS: partly cloudy
~ BURST PRESSURE (mb) : 12-711
burst at 29.27km

REMARKS: Flight for NOAA HQ

weighoff =_____ grams

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