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

DIGITAL OZONESONDE CHECKLIST **Huntsville**

FLT # HUSOS

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 4/5/08
INITIALS: SK
PUMP NUMBER: 23741?

PUMP CURRENT: 83
PUMP PRESSURE: >11
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: = 0.358 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 4/19/08
INITIALS: SL
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**= 0.021 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.69 sec
FLOWRATE #2: 28.72
FLOWRATE #3: 28.62
FLOWRATE #4: 28.75
FLOWRATE #5 28.64
AVERAGE T100: 28.68

DRY T100
#1: 28.34
#2: 28.37
#3: 28.47
DRY AVG: 28.39

WET T100
#1: 28.84
#2: 28.92
#3: 28.80
WET AVG: 28.85

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 23.58 sec.
RECORD: ROOM TEMP (C) 20 ROOM REL. HUMID. (%) 34
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 1.62 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HUSOS
GMT DATE : 4/19/08
GMT LAUNCH TIME : 18:34

LOCAL DATE: 4/19/08
LOCAL TIME: 13:34

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

O_3 BACKGROUND (µamps from F9 key): 0.021

VAISALA NUMBER (9 digit): 189210546
SURFACE PRESSURE:
SURFACE TEMP. (C):
SURFACE HUMIDITY :

SKY CONDITIONS: clear, windy

~ BURST PRESSURE (mb) : 8.87 at 31.7 km

REMARKS: launched at 13:30 for TES overpass

weighoff =_____ grams

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