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

DIGITAL OZONESONDE CHECKLIST **Huntsville**

FLT # HU5[illegible]60

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 03/07/09
INITIALS: BH
PUMP NUMBER: 23 7964

PUMP CURRENT: 87.01
PUMP PRESSURE: >10
PUMP VACUUM: 21

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: = 0.147 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 3/22/09
INITIALS: SK
Cathode solution date written on bottle: 3/4/08
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**= 0.008 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓(√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.11 sec
FLOWRATE #2: 29.19
FLOWRATE #3: 29.14
FLOWRATE #4: 29.19
FLOWRATE #5 29.25
AVERAGE T100: 29.18

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: 31.19 sec.
RECORD: ROOM TEMP (C) 22 ROOM REL. HUMID. (%) 14
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 1 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU5[illegible]560
GMT DATE : 3/22/09
GMT LAUNCH TIME : 18:57:27

LOCAL DATE: 3/22/09
LOCAL TIME: 13:57:27

BALLOON TYPE _____ **Gram :** Kaymont ✓ Scientific Sales ____ (√ one)

O_3 BACKGROUND (µamps from F9 key): _____

VAISALA NUMBER (9 digit): 517101211
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY : _____

SKY CONDITIONS: Clear, Southerly wind

~ BURST PRESSURE (mb) : 33.74

REMARKS: _____

weighoff = _____ grams

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