FLT # H4583

U.S. DEPT. OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
CLIMATE MONITORING AND DIAGNOSTICS LABORATORY
DIGITAL OZONESONDE CHECKLIST **Huntsville**

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 8/8/09
INITIALS: B
PUMP NUMBER: 27 8399

PUMP CURRENT: 85.34
PUMP PRESSURE: 2 1.1
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: = 0.466 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 8/22/09
INITIALS: WC
Cathode solution date written on bottle: 4/17/09
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: 29.58 sec
FLOWRATE #2: 29.54
FLOWRATE #3: 29.53
FLOWRATE #4: 29.49
FLOWRATE #5 29.43
AVERAGE T100: 29.51

DRY T100
#1: 28.05
#2: 28.14
#3: 27.77
DRY AVG: 28.00

WET T100
#1: 28.45
#2: 28.30
#3: 28.32
WET AVG: 28.36

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 24.65 sec.
RECORD: ROOM TEMP (C) 24 ROOM REL. HUMID. (%) 50
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 1.25 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: H4583
GMT DATE : 8/22/09
GMT LAUNCH TIME : 13:04:22
LOCAL DATE: 8/22/09
LOCAL TIME: 1:04:22

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

O_3 BACKGROUND (µamps from F9 key): 0.021

VAISALA NUMBER (9 digit): 72 1404109
SURFACE PRESSURE:
SURFACE TEMP. (C):
SURFACE HUMIDITY :

SKY CONDITIONS: Partly Cloudy

~ BURST PRESSURE (mb) : 7.887
Alt: 33.16 km

REMARKS:

weighoff = _____ grams

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