FLT # HU588

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): 09/12/2009
INITIALS: BH
PUMP NUMBER: 278390

PUMP CURRENT: 84.90
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: = 0.452 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 9/26/09
INITIALS: SL
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**= 0.037 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓(√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.43 sec
FLOWRATE #2: 29.46
FLOWRATE #3: 29.55
FLOWRATE #4: 29.47
FLOWRATE #5 29.43
AVERAGE T100: 29.47

DRY T100
#1: 27.96
#2: 28.09
#3: 28.15
DRY AVG: 28.1

WET T100
#1: 28.41
#2: 28.51
#3: 28.86
WET AVG: 28.49

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 17.21 sec.
RECORD: ROOM TEMP (C) 24 ROOM REL. HUMID. (%) 61
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction** 1.39 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU588
GMT DATE : 9/26/09
GMT LAUNCH TIME : _____

LOCAL DATE: 9/26/09
LOCAL TIME: _____

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

O_3 BACKGROUND (µamps from F9 key): 0.037

VAISALA NUMBER (9 digit): 72200709
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY : _____

SKY CONDITIONS: cloudy/overcast raining !!

~ BURST PRESSURE (mb) : 28.469 km w/ 15.697mb

REMARKS: Lots of signal problems, altitude and rise rate fluctuating wildly thraignout. Very slow ascent lost signal completely at end.

weighoff = _____ grams

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