

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

FLT # ^{HU} 666

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 03/27/2010
INITIALS: lsh
PUMP NUMBER: 228871

PUMP CURRENT: 72.18
PUMP PRESSURE: 22.710
PUMP VACUUM: 22

30 MINUTES HI O₃ ☒ (✓)
5 MINUTE NO O₃ ☒ (✓)

ADD 3.0 CC CATHODE SOLUTION: ☒ (✓)

WAIT 2 MINUTES: ☒ (✓)

ADD 1.5 CC ANODE SOLUTION: ☒ (✓)

RUN 20 MINUTES ON NO O₃ ☒ (✓)

Record the current after the 20 MINUTES ON NO O₃: = 0.782 μ amps

Short the cell leads: ☒ (✓)

Add about 2.5 CC more Cathode Solution (2Z) ☒ (✓)

Place Instrument inside plastic bag: ☒ (✓)

Store inside Styrofoam flight box: ☒ (✓)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 4/10/2010
INITIALS: wtc

Cathode solution date written on bottle: 10/14/2009

CHANGE CATHODE SOLUTION (3cc): ☒ (✓)

CHANGE ANODE SOLUTION (1.5cc): ☒ (Yes/No)

RUN ON NO O₃ FOR 5 MINUTES: ☒ (✓)

RECORD THE NO O₃ BACKGRND#1: BG1=0.012 μ amps

RUN ON 5 microamps of O₃ for 10 Minutes: ☒ (✓)

T100 FLOWRATE TIMES:

FLOWRATE #1: 27.89 sec

FLOWRATE #2: 27.93

FLOWRATE #3: 27.93

FLOWRATE #4: 27.92

FLOWRATE #5: 27.85

AVERAGE T100: 27.90

DRY T100

#1: 27.87

#2: 27.78

#3: 27.60

DRY AVG: 27.75

WET T100

#1: 28.14

#2: 28.41

#3: 28.33

WET AVG: 28.29

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 32.60 sec.

RECORD: ROOM TEMP (C) 20 ROOM REL. HUMID. (%) 22

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction: 1.94 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU616

GMT DATE: 4/10/2010

LOCAL DATE: 4/10/2010

GMT LAUNCH TIME: 18:16:42

LOCAL TIME: 13:16:42

BALLOON TYPE 1200 Gram: Kaymont ☒ Scientific Sales ☐ (✓ one)

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 148752746

SURFACE PRESSURE: _____

SURFACE TEMP. (C): _____

SURFACE HUMIDITY: _____

SKY CONDITIONS: Clear

~ BURST PRESSURE (mb): 9.13

Alt: 31.6 KM

REMARKS: B6 current stayed negative for ~5 minutes then settled to 0.002 μ A after 10 minutes during prep. Everything else was normal.

weighoff = _____ grams

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