

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

FLT # HU531

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 9/3/08 PUMP CURRENT: 91.20 30 MINUTES HI O₃ (N)
INITIALS: SL PUMP PRESSURE: >10 5 MINUTE NO O₃ (N)
PUMP NUMBER: 227699 PUMP VACUUM: 23

ADD 3.0 CC CATHODE SOLUTION: (N) Short the cell leads: (N)
WAIT 2 MINUTES: (N) Add about 2.5 CC more Cathode Solution (2Z) (N)
ADD 1.5 CC ANODE SOLUTION: (N) Place Instrument inside plastic bag: (N)
RUN 20 MINUTES ON NO O₃ (N) Store inside Styrofoam flight box: (N)
Record the current after the 20 MINUTES ON NO O₃: = 0.605 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 09/06
INITIALS: BH/SK
Cathode solution date written on bottle: 07/04/08
CHANGE CATHODE SOLUTION (3cc): (N)
CHANGE ANODE SOLUTION (1.5cc): (Yes/No)
RUN ON NO O₃ FOR 5 MINUTES: (N)
RECORD THE NO O₃ BACKGRND#1: BG1=0.032 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (N)

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.45 sec
FLOWRATE #2: 29.32
FLOWRATE #3: 29.19
FLOWRATE #4: 29.50
FLOWRATE #5: 29.17
AVERAGE T100: 29.29

DRY T100
#1: 28.51
#2: 28.66
#3: 28.69
DRY AVG: 28.62
WET T100
#1: 29.59
#2: 29.43
#3: 29.48
WET AVG: 29.50

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 27.36 sec.

RECORD: ROOM TEMP (C) 23 ROOM REL. HUMID. (%) 64

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 3.07 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU531
GMT DATE: 09/06 LOCAL DATE: 09/06
GMT LAUNCH TIME: 18:05 LOCAL TIME: 13:05

BALLOON TYPE _____ Gram : Kaymont _____ Scientific Sales _____ (N one)

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 320602907
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY : _____

SKY CONDITIONS: cloudy, little windy
- BURST PRESSURE (mb): 32.130 / 9.052

REMARKS: _____

weighoff = _____ grams

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