

MATERHORN Experiment of May 2013

morning flights

Date: 5/26/2013 (UTC)

IOP# 9

GPS coordinates, lat: _____°N, long: _____°W, elevation: _____ m MSL

Sonde serial number: 24114193, Kestrel serial number: 578703, balloon vol: 5 m³

Operators: Whideman, Schner, Allen

File name: 1011

Ascent number: 1 Start ascent (UTC): 1214 Sonde p₀: 8610 mb

Kestrel: p₀ 8604 mb, T₀ 10.8 °C, RH₀ 42.3 %, ws₀ 1.3 m/s, wd₀ 275 true

Height attained (m AGL) 250 at 1219 UTC

Remarks: Sky condition, battery level, etc.

cloud cover $\frac{6}{8}$: A₀, C₁
morning after cloudy night

Ascent number: 2 Start ascent (UTC): 1225 Sonde p₀: 8611 mb

Kestrel: p₀ 8602 mb, T₀ 12.3 °C, RH₀ 38.7 %, ws₀ 1.5 m/s, wd₀ 275 true

Height attained (m AGL) 211 at 1229 UTC

Remarks: Sky condition, battery level, etc.

Ascent number: 3 Start ascent (UTC): 1234 Sonde p₀: 8612 mb

Kestrel: p₀ 8604 mb, T₀ 12.0 °C, RH₀ 39.2 %, ws₀ 1.1 m/s, wd₀ 275 true

Height attained (m AGL) 200 at 1239 UTC

Remarks: Sky condition, battery level, etc.

Ascent number: 4 Start ascent (UTC): 1244 Sonde p₀: 8610 mb

Kestrel: p₀ 8605 mb, T₀ 11.9 °C, RH₀ 42.5 %, ws₀ 0.9 m/s, wd₀ 275 true

Height attained (m AGL) 208 at 1249 UTC

Remarks: Sky condition, battery level, etc.

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Ascent number: 5 Start ascent (UTC): 1255 Sonde p₀: 861.5 mb
Kestrel: p₀ 860.3 mb, T₀ 14.4 °C, RH₀ 37.0 %, ws₀ 0.4 m/s, wd₀ 275 true
Height attained (m AGL) 210 at 1259 UTC
Remarks: Sky condition, battery level, etc.

1307

Ascent number: 6 Start ascent (UTC): 0607 Sonde p₀: 861.6 mb
Kestrel: p₀ 860.5 mb, T₀ 14.2 °C, RH₀ 33.6 %, ws₀ 0.3 m/s, wd₀ 280 true
Height attained (m AGL) 225 at 4:13 pm UTC
Remarks: Sky condition, battery level, etc. 1313

1327

Ascent number: 7 Start ascent (UTC): 1227 Sonde p₀: 860.8 mb
Kestrel: p₀ 860.8 mb, T₀ 14.6 °C, RH₀ 29.2 %, ws₀ 0 m/s, wd₀ true
Height attained (m AGL) 220 at 4:33¹³²³ UTC
Remarks: Sky condition, battery level, etc.

9/10 ACAs changed batt & recast before this flight. → file 1012

1340

Ascent number: 8 Start ascent (UTC): 1240 Sonde p₀: 860.8 mb
Kestrel: p₀ 860.6 mb, T₀ 13.4 °C, RH₀ 32.4 %, ws₀ 2 m/s, wd₀ 322 true
Height attained (m AGL) 214 at 4:45¹³⁴⁵ UTC
Remarks: Sky condition, battery level, etc.

1350

Ascent number: 9 Start ascent (UTC): 1250 Sonde p₀: 860.8 mb
Kestrel: p₀ 860.0 mb, T₀ 11.4 °C, RH₀ 30.6 %, ws₀ 0.5 m/s, wd₀ 210 true
Height attained (m AGL) 211 at 0156¹³⁵⁰ UTC
Remarks: Sky condition, battery level, etc.

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Ascent number: 10 Start ascent (UTC): ¹⁴⁰⁴0204 Sonde p₀: 801.5 mb
Kestrel: p₀ 860.6 mb, T₀ 14.5 °C, RH₀ 89.3 %, ws₀ 0.1 m/s, wd₀ 270 true
Height attained (m AGL) 263 at ¹⁴¹⁵0210 UTC
Remarks: Sky condition, battery level, etc.

Ascent number: 11 Start ascent (UTC): ¹⁴¹⁹0219 Sonde p₀: 861.5 mb
Kestrel: p₀ 860.7 mb, T₀ 15.2 °C, RH₀ 31.2 %, ws₀ 0.9 m/s, wd₀ 40 true
Height attained (m AGL) 222 at ¹⁴²⁴0224 UTC
Remarks: Sky condition, battery level, etc.

Ascent number: 12 Start ascent (UTC): ¹⁴³⁷0237 Sonde p₀: 861.6 mb
Kestrel: p₀ 860.8 mb, T₀ 15.4 °C, RH₀ 25.7 %, ws₀ 0.7 m/s, wd₀ 60 true
Height attained (m AGL) 206 at ¹⁴⁴²0242 UTC
Remarks: Sky condition, battery level, etc.

*Changed battery & recalibrated just before this ascent.
%c As + Ac => file 10.3*

Ascent number: 13 Start ascent (UTC): ¹⁴⁴⁷0247 Sonde p₀: 861.5 mb
Kestrel: p₀ 860.6 mb, T₀ 17.0 °C, RH₀ 17.6 %, ws₀ 0.4 m/s, wd₀ 100 true
Height attained (m AGL) 215 at ¹⁴⁵²0252 UTC
Remarks: Sky condition, battery level, etc.

Ascent number: _____ Start ascent (UTC): _____ Sonde p₀: _____ mb
Kestrel: p₀ _____ mb, T₀ _____ °C, RH₀ _____ %, ws₀ _____ m/s, wd₀ _____ true
Height attained (m AGL) _____ at _____ UTC
Remarks: Sky condition, battery level, etc.