

AAD3, C Sugarloaf

Project	2018 CSI GPS
Created	2018-01-09 15:51:36 NZDT by Neville Palmer
Updated	2018-05-17 15:35:03 NZST by GeodeticOne Tectonophysics
Location	-43.63419171, 170.853181
Status	 Retrieved
Geodetic Code	AAD3
Station Name	C Sugarloaf
Station Height (m)	1051.8094
Station Height (ft)	3451

Mark, Site & Photo Details

Mark & Protection Details

Mark Type	Stainless Steel Pin
Mark Physical State	Reliable / Found
Mark Description	This mark is used for deformation monitoring do not alter the ground mark in any way. SS pin in 0.05m dia tube in earth mound. Branded 'C'. Buried mark not known. No pin.

Plates & Plaques

ID Plaque (bronze)	ID Plaque Exists
ID Plate (aluminium)	ID Plate Installed during this visit
Information Plate (aluminium)	Info Plate does Not Exist and was Not Installed

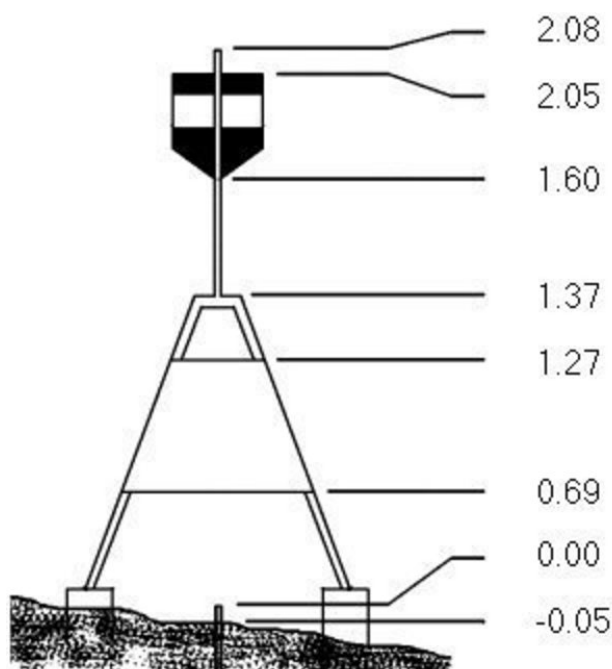
Protection

Primary Protection	2m Metal Beacon
Secondary Protection	No Protection

Beacon Details

Beacon Type	2m Metal Beacon, Clarke, Nelson, Gisborne
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Existing Beacon Diagram (read only).



Beacon Eccentricity

Previously Recorded Eccentricity 90Deg 0.07:Now Central

Height Details (all in metres)

Mark Ground Level Relationship in metres (+ve below GL / -ve above GL)	-0.05
Top of Vane or Black Strip	2.05
Bottom of Vane or Black Strip	1.6
Top of Head or Apex	1.37
Top of Side Panels	1.27
Bottom of Side Panels	0.69

Maintenance Completed and Required

Mark Maintenance Completed	No
Beacon Maintenance Completed	No
Protection Maintenance Completed	No
Mark Maintenance Required	No
Beacon Maintenance Required	No
Protection Maintenance Required	No

Verification

Have all mark and protection fields above been updated or verified to be correct?	Yes
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Site & Access Details

Diagram

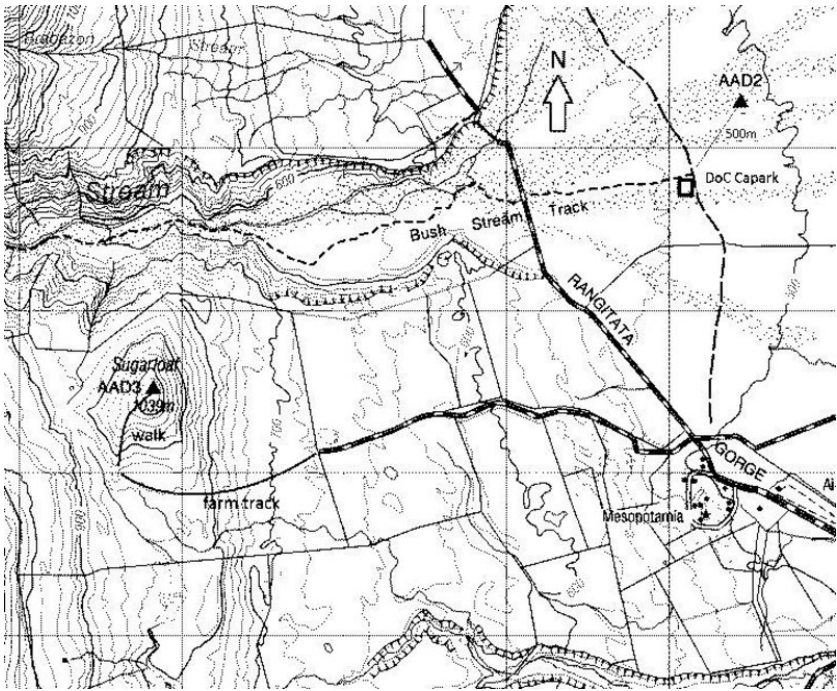


Diagram Notes

Use locus GPS track. In return the first track is the walking part and the second is the driving part

Access and Location Description

Take major left hand turn just past station house. The correct fork can be seen climbing up a hill steeply from the intersection. Follow road up high terrace (Butler Downs) and then straight to the Sugar loaf. Road veers south around prominent south ridge from Sugar loaf and continues to a high flat basin. From here the trig, which is located on the summit can be reached by climbing a moderate tussock hill side for about 200m. The site has a Nelson beacon in good condition.

Cell Phone Network Coverage

Spark	No signal or unreliable signal
2 Degrees	Network signal not tested

Verification

Have all site & access fields above been updated or verified to be correct? Yes

Photographs

Existing Photo or Site Image



Photo of Survey Mark





Photo of Immediate Site



Photo of Extended Site



Verification

Is there at least one photo taken for each field above?	Yes
Have any mark, site or photo details been updated or verified?	Yes - All details have been fully updated or verified.
Updated by:	Chris Pearson

Owner & Contact Details

Owner & Contact

Contact Details from the LINZ GDB

Owner/Contact	Mesopotamia Station (Sue & Malcom Prouting)
Phone	03 6963738
Address	Mesopotamia Station, Rangitata Gorge Road, RD 22, Geraldine,

Contact Comments

Access permission restrictions (to report in LINZ GDB)	Permission required from Mesopotamia Station
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Owner

Is the owner known?	Yes
First Name	Sue & Malcom
Last Name	Prouting
Address	Mesopotamia Station, Rangitata Gorge Road, RD 22, Geraldine,
Phone	03 696 3738

Site Contact

Is the site contact person known?	Same as owner
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Access Contact

Is the access contact person known?	Same as site contact
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Verification

Have all owner & contact fields above been updated or verified to be correct?	Yes
Have any owner or contact details been updated or verified?	Yes - All details have been fully updated or verified.
Updated by:	Chris Pearson

Occupations

AAD3, 2018-01-29, 15:58, OU24, 0220414109, 5700, Trimble

Geodetic Code	AAD3
Station Name	C Sugarloaf

Deployment

Observer(s)	Chris Pearson, Isaac Brennan
GNSS Receiver	OU24, 0220414109, 5700, Trimble
GNSS Antenna	OU24, 60009348, Zephyr Geodetic, Trimble
Antenna radome used?	NONE

Plumbing

Antenna Mount or Monument	Nelson Beacon
Set-up using a rotating optical plummet?	Yes
Bubble Centred?	Yes
Cross-hair on target?	Yes

Plummet Check OK?	Yes
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Antenna Alignment

Magnetic Declination (+ve east / -ve west)	22
Compass should read (magnetic bearing)	338
Aligned to True North	Yes

Antenna Height

Height Measured To	Bottom of Antenna (Vertical)
1st Height	1.445
Check Height Units	Decimal Inches
Check Height	57
Check Height Converted to Metres	1.4478

Start Time

Occupation Start Date (local)	2018-01-29
Occupation Start Time (local)	15:58
Occupation Start UTC	Mon, 29 Jan 2018 02:58:00 GMT
Year and DoY (UTC)	2018-029

Battery Details

Number of batteries deployed	One
ID of Battery 1	17/b
Capacity of Battery 1 (Ahr)	24 Amp Hour
Voltage of Battery 1	12.75

This site is being deployed with multiple batteries. Please comment with all relevant details of the batteries deployed.

Retrieval

Observer(s)	Chris Pearson, Isaac Brennan
Was receiver logging on arrival?	No
Explain why receiver was not logging (eg Flat battery)	Flat bat

Battery Details

No batteries were recorded at deployment.

More than two batteries were recorded as deployed at this occupation. Comment below as necessary.

ID of Battery 1	17/b
Voltage of Battery 1 at Deployment	12.75
Voltage of Battery 1 at Retrieval	11.36

End Time

Occupation End Date (local)	2018-02-06
Occupation End Time (local)	14:01
Occupation End UTC	Tue, 06 Feb 2018 01:01:00 GMT
Year and DoY (UTC)	2018-037

Antenna Alignment

Magnetic Declination (+ve east / -ve west)	22
Compass should read (magnetic bearing)	338
Aligned to True North	No
Explain why not aligned north.	Antenna blown off mark by storm

Antenna Height

Height Measured To	Bottom of Antenna (Vertical)
1st Height	1.447
Check Height Units	Decimal Inches
Check Height	57
Check Height Converted to Metres	1.4478
Average Height recorded at Deployment	1.445

Plumbing

Bubble Centred?	No
Explain why bubble is not centred.	Blown off mark
Cross-hair on target?	No
Magnetic bearing from mark to cross-hair.	90
Distance in mm from mark to cross-hair	13
Explain why cross-hair is not on target.	Mark blown across top of Nelson by storm
Plummet Check OK?	Yes

Gns3, 41090290.t01, 41090330.01

Current Station	AAD3 - C Sugarloaf
Station Occupation times (UTC)	Start: 02:58 DoY 2018-029 UTC End: 01:01 DoY 2018-037 UTC
ID of Download Device	Gns3
Downloaded by:	Chris Pearson
Download Date	2018-02-06
Record the first and last file name of the block of files downloaded.	
Earliest File Name Downloaded	41090290.t01
Latest File Name Downloaded	41090330.01
Total number of files downloaded.	5
Optional Comment	41090290.t01 and 41090300.t01 recorded be for storm and thus undisturbed

Summary of Downloaded Files

Earliest Filenames Downloaded	41090290.t01
Latest Filenames Downloaded	41090330.01
Numbers of files Downloaded	5

For each block of downloaded files there will be an earliest and latest file downloaded, plus the total number of files downloaded. Typically there will only be one download block per occupation. Occasionally a receiver will be downloaded several times during an occupation (eg during an extended semi-cGPS occupation). In this instance there will be multiple earliest, latest, and number of files downloaded. These are summarised in the comma delimited lists above.