

Contours & Scale



33.07, 141° E

Feb 10, 2008

Google

Eye alt 1.08 km

The Food Forest model as an example...



Maps and scale...



Maps, scale and contour...



SCALE 1:50 000



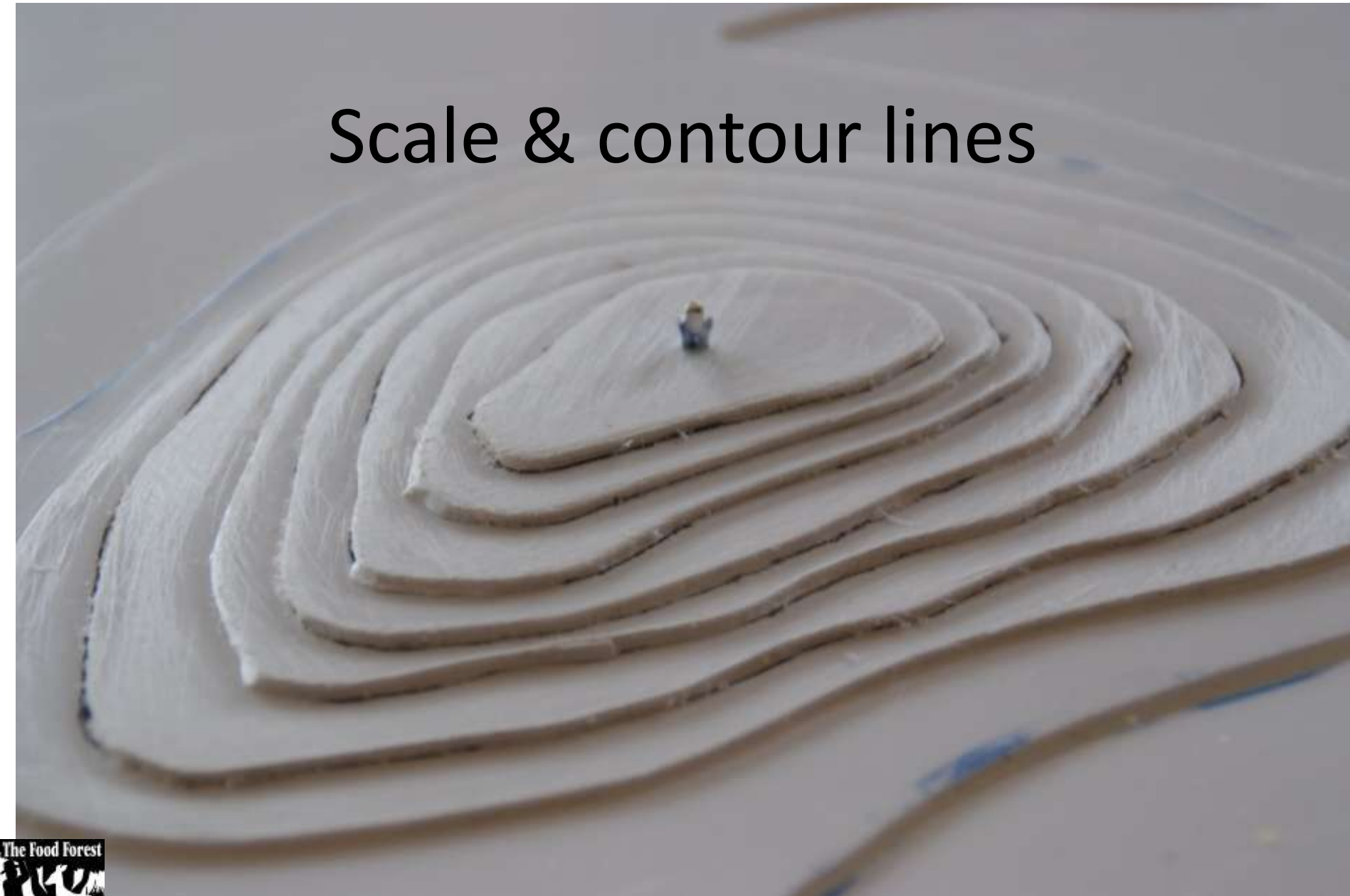
CONTOUR INTERVAL 10 METRES

Some roads and tracks shown on this map series are private and not available for public use.

.....		Survey beacon:	Spot elevation:
.....		Rock, bare or awash:	Reef:
.....		Lake, perennial:	Watercourse:
.....		Lake, intermittent:	Land subject to inundation:



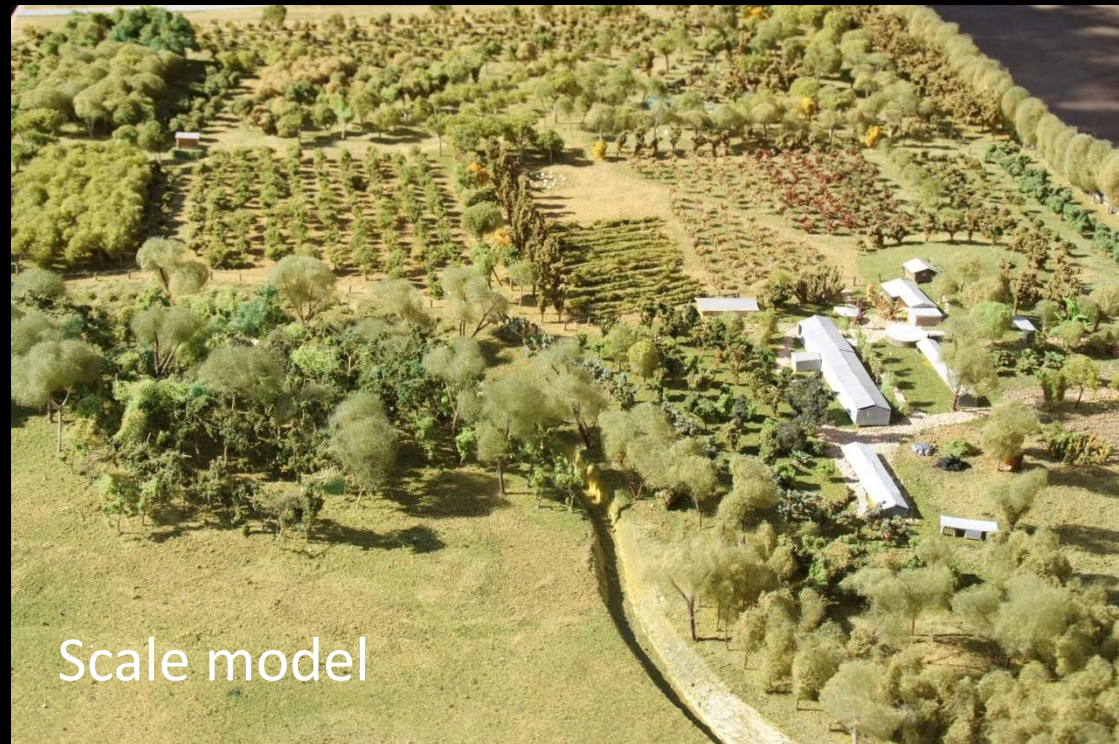
Scale & contour lines



Scale: size and measurements



Aerial photograph

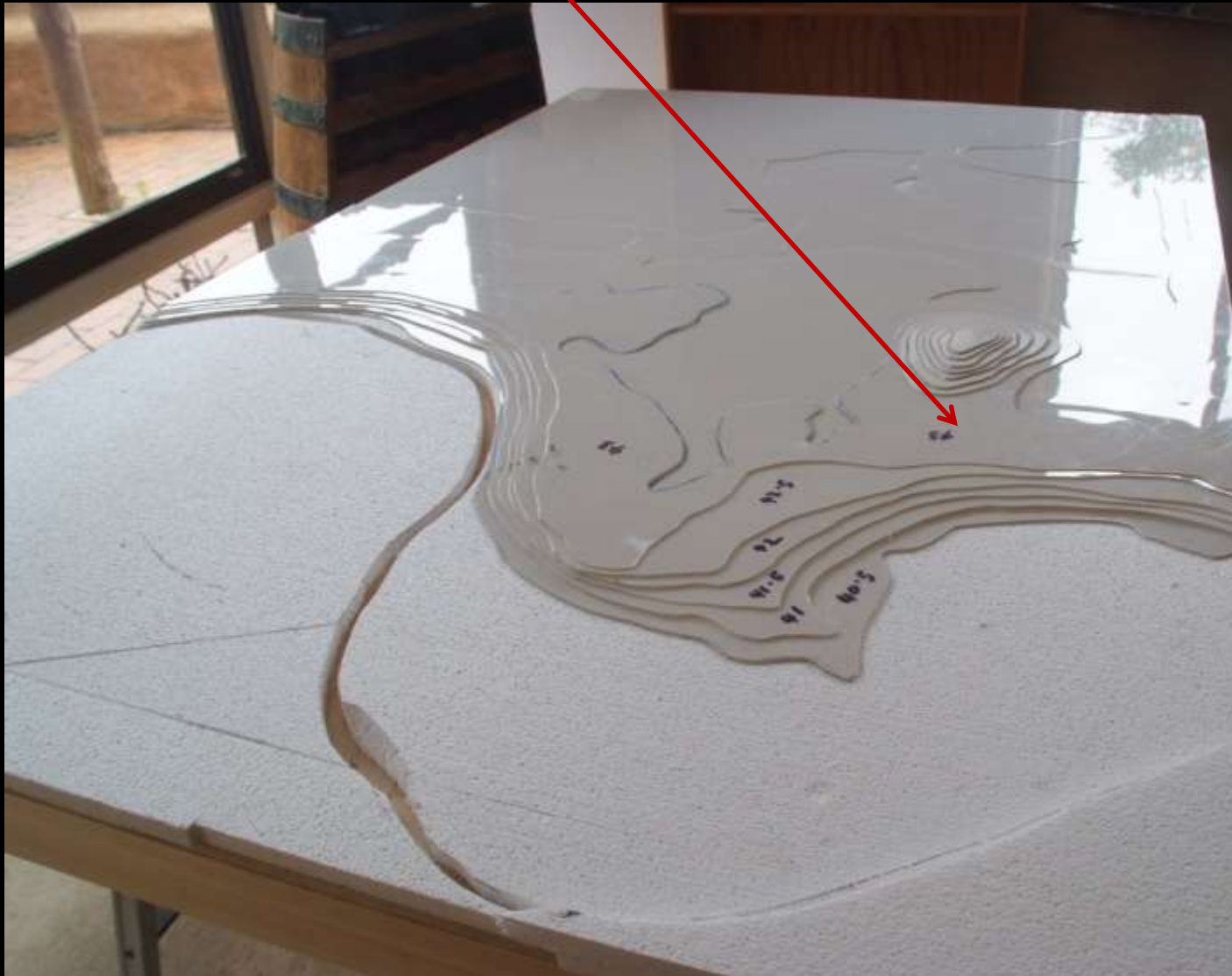


Scale model



Contours levels (lines):height above sea level

TFF house = at 43 m above sea level




Scale.....



BROOKMAN
ADD. AND ALTS
THE FOOD FOREST GAWLER


DWG NO. **1**

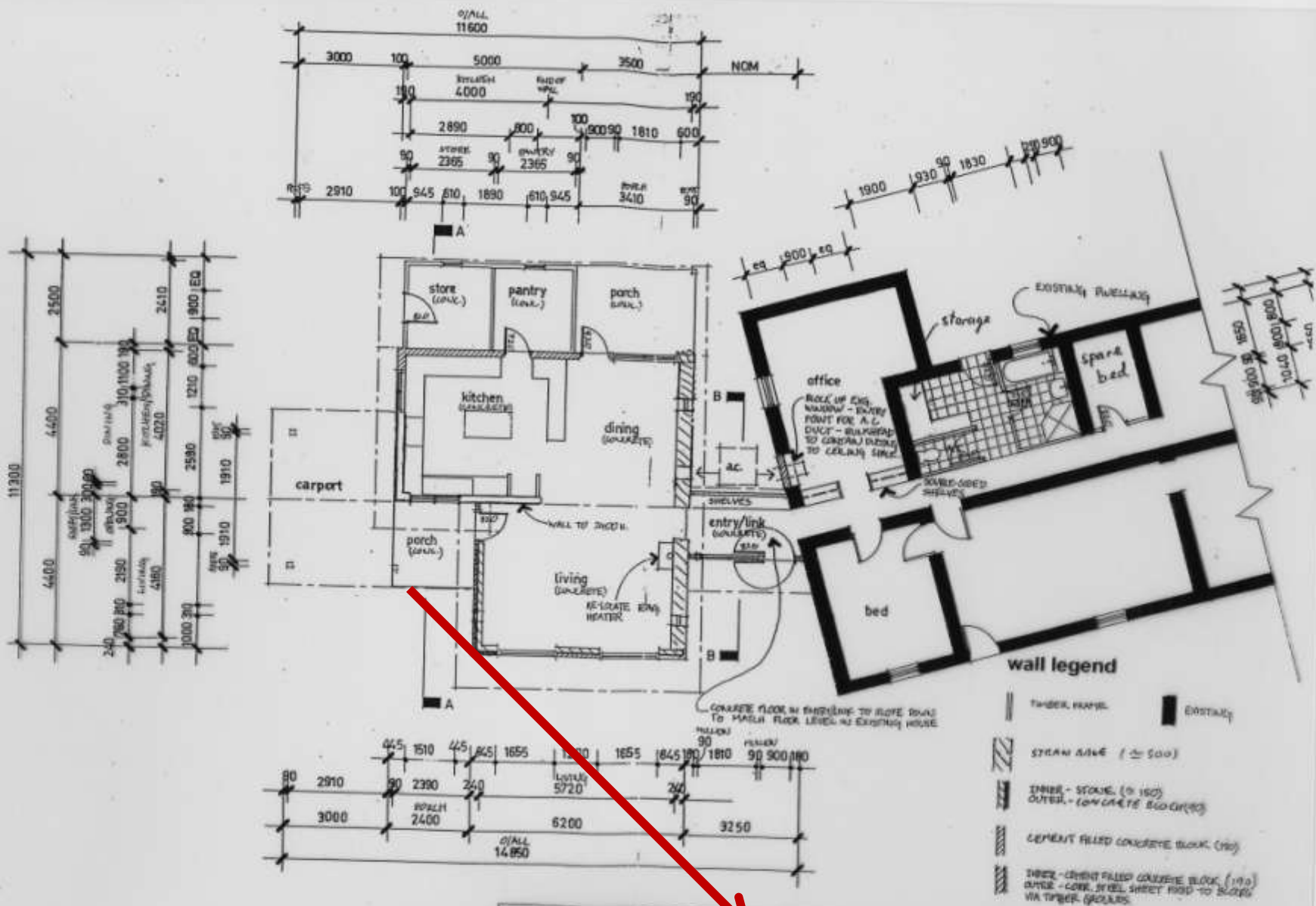
JOB NO. 10014
DATE: 28 OCT 99
SCALE 1:200
site plan



Do not scale dimensions. Inform the Architect in the event that conflict occurs between details. Ensure any alterations to the documents are in writing before proceeding.

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BROOKMAN
ADD. AND ALTS.
THE FOOD FOREST CAVVIER

DWG NO. **2**

JOB NO. 89814
DATE: 30 OCT 08
SCALE: 1:100

floor plan

Do not scale dimensions. Refer the Architect in the event that conflict occurs between details. Ensure any alterations to the documents, are in writing before proceeding.

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energy
Network



ed Corner

r corn Windbreak

Scale: 1cm = 1 of my large paces

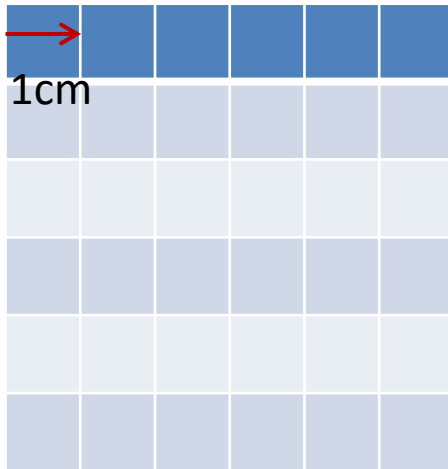
Scale & size



Scale is a maths thing!

First: What units are you working in: mm, cm, m, etc

- 1:1 is the same size
- 1:5 means the 1 unit in real life is 5 x bigger
- 1:10 means the 1 unit in real life is 10x bigger
- In other words ('working back') $1/10^{\text{th}}$ of the size



- Scale of 1:10
- The maths for 1 square: $1 \times 10 = 10\text{cm}$
- So 6 squares = $6 \times 10\text{cm} = 60\text{cm}$ long

- Scale of 1:100
- The maths: $1\text{cm} \times 100 = 100\text{cm} = 1\text{m}$



scale

if our unit measurements is in cm...

1	:	1		
1cm	=	1 cm		
1	:	10		
1cm	=	10cm		
1	:	100		
1cm	=	100cm	1m	
1	:	1000		
1cm	=	1000cm	10m	
1	:	10000		
cm	=	10000cm	100m	
1	:	100000		
1cm	=	100000cm	1000m	1km

if our unit measurements is in cm...

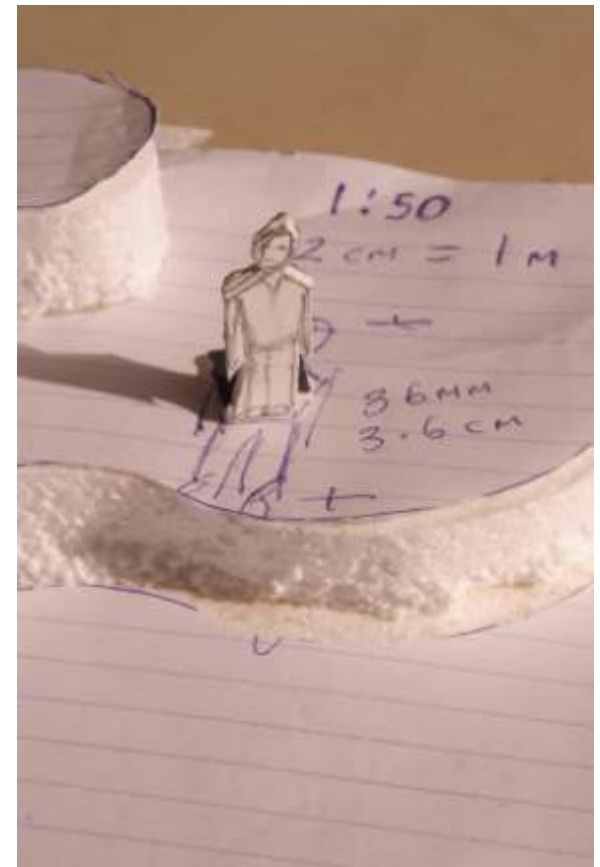
1	:	5		
1cm	=	5 cm		
1	:	50		
1cm	=	50cm		
1	:	500		
1cm	=	500cm	5m	
1	:	5000		
1cm	=	5000cm	50m	
1	:	50000		
cm	=	50000cm	500m	
1	:	500000		
1cm	=	500000cm	5000m	5km



Scale 1:50 means:

1cm = 50cm (1cm x 50)

2 cm = 1m (2cm x 50= 100cm=1m)



Real measurements -> scale on a '1:50'

2m tall = 4cm

HOW?.....*the maths:*

2m: $200\text{cm}/50=4\text{cm}$

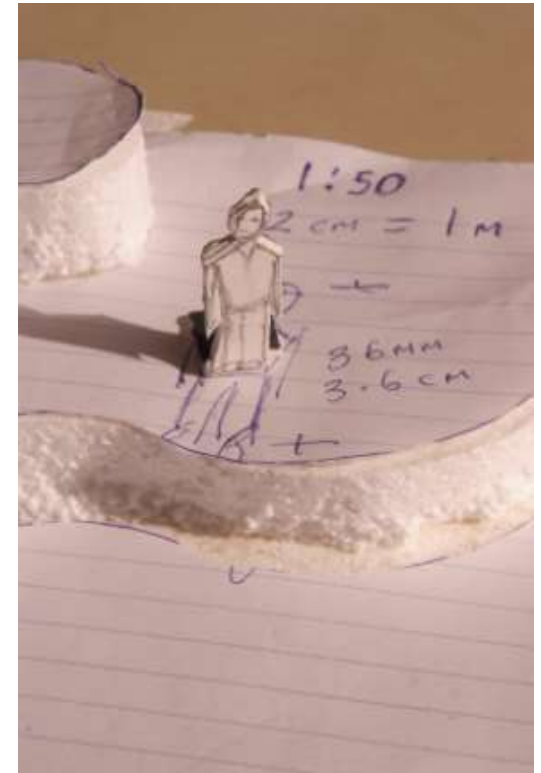
2m: $2000\text{mm}/50=40\text{mm}$

so if I am 1.8m tall.....

the scale model of me is

$1800\text{mm}/50=36\text{mm}=3.60\text{cm}$

or $180\text{cm}/50=3.6\text{cm}$



Scale model of TFF - 1:300



Scale 1:300

1mm = 300mm (=30cm)

1.8m high fence = 6mm.... ??? HOW..... $1800\text{mm}/300=6\text{mm}$



Google maps for measurements and roof lines



Lots of 'real' measurements on the ground



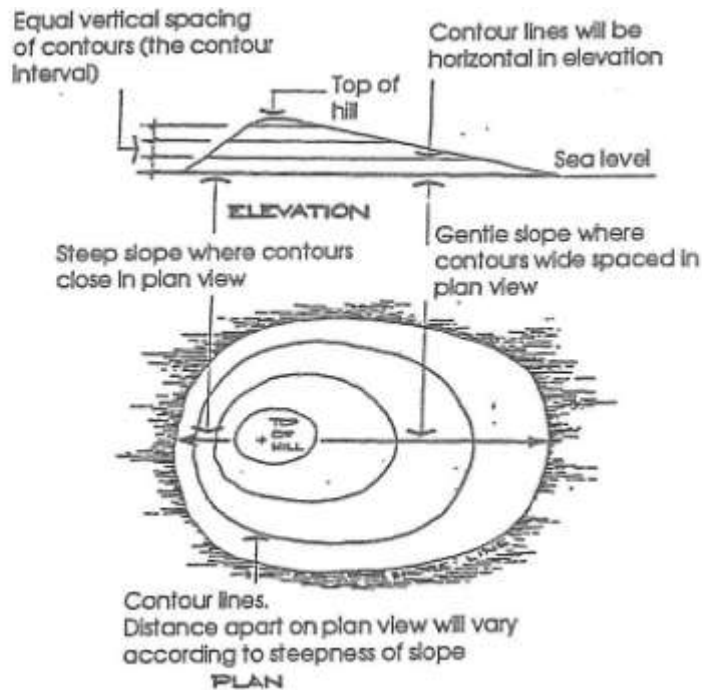
Many hours went into making TFF model



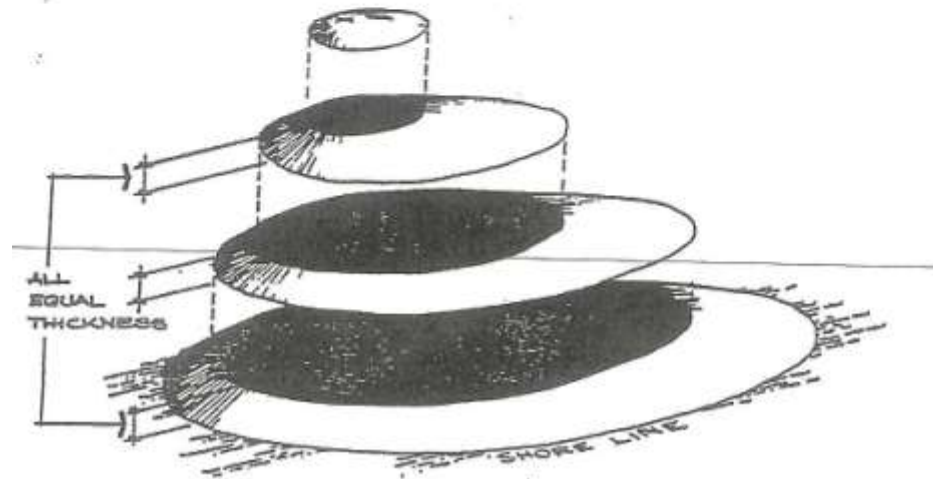
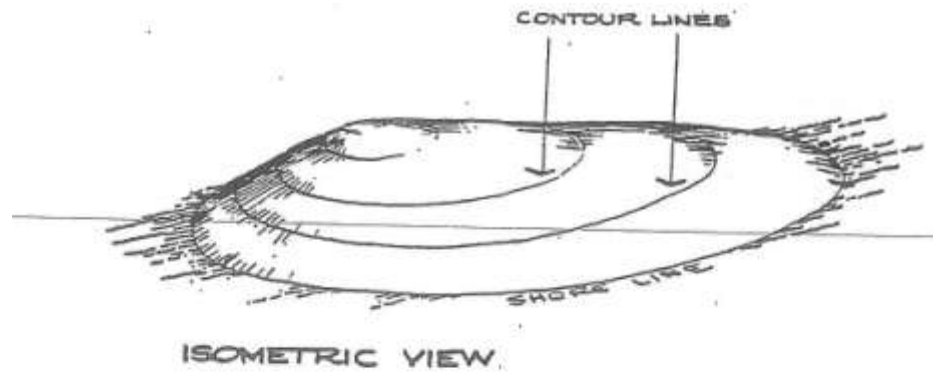
Contours



Contour lines:
are horizontal
measured from sea level
are equal in vertical spacing



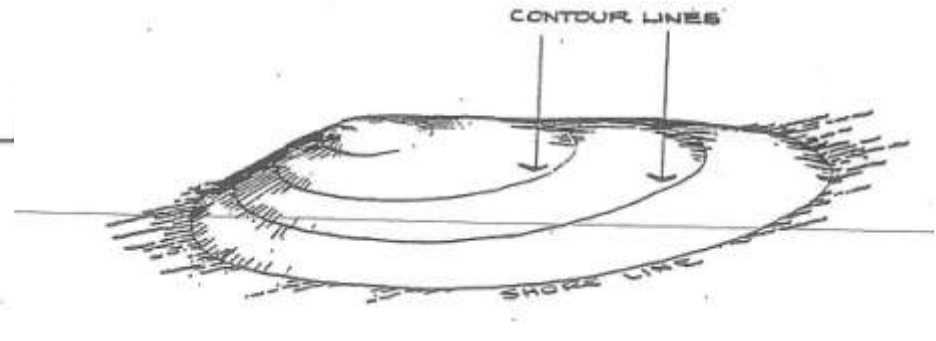
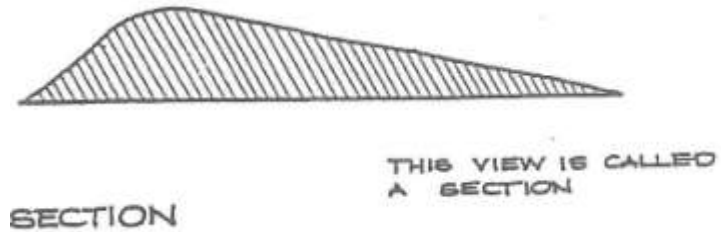
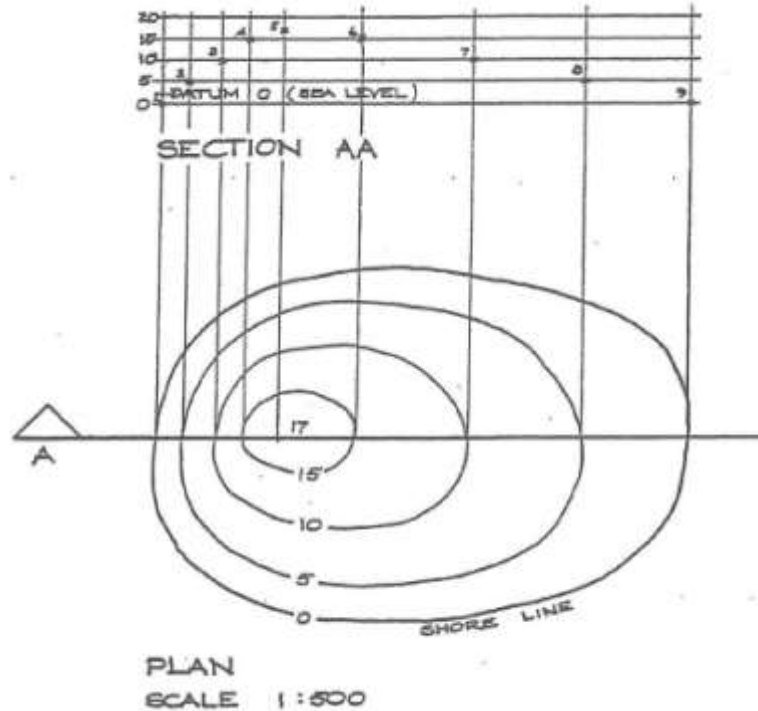




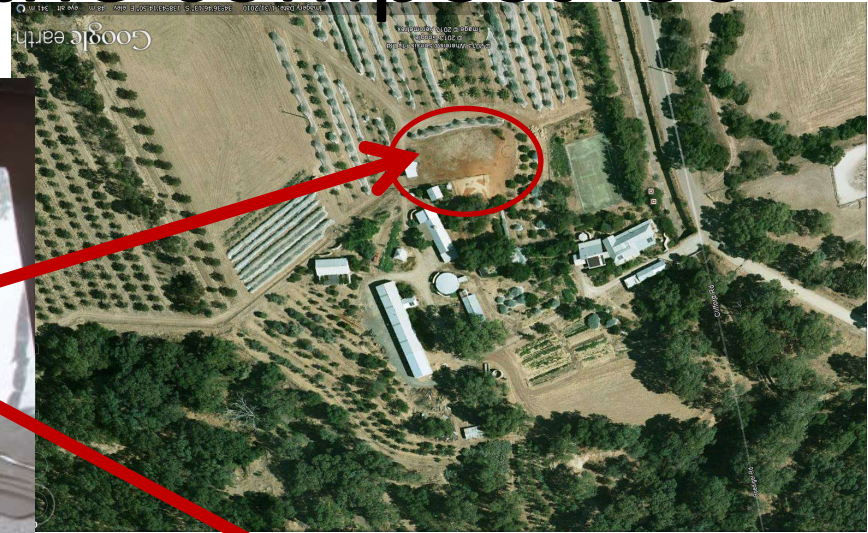
From TAFE publication



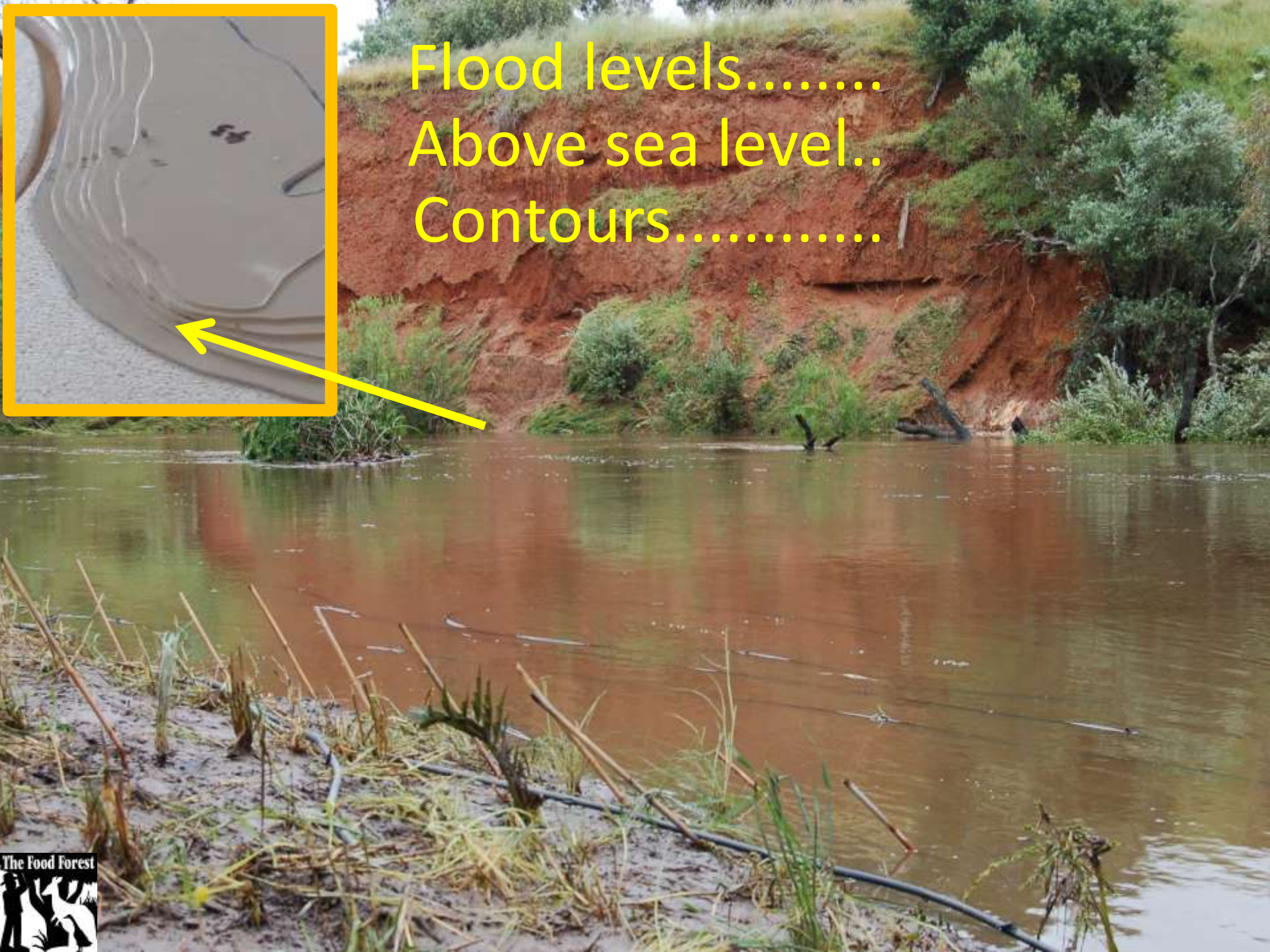
Contours, section



The hill behind the compost loo



Flood levels.....
Above sea level..
Contours.....



Here endeth contours and scale



Laser levels used in levelling of floors...
a form of contours if you like

