



fcfm
FACULTAD DE CIENCIAS
FÍSICAS Y MATEMÁTICAS
UNIVERSIDAD DE CHILE

Ingeniería de Minas



Geo-Minero-Metalurgia

Diplomado Geo –Minero – Metalurgia

Curso Diseño Minero

Guía de Ejercicios

Uso de Slide de RocScience

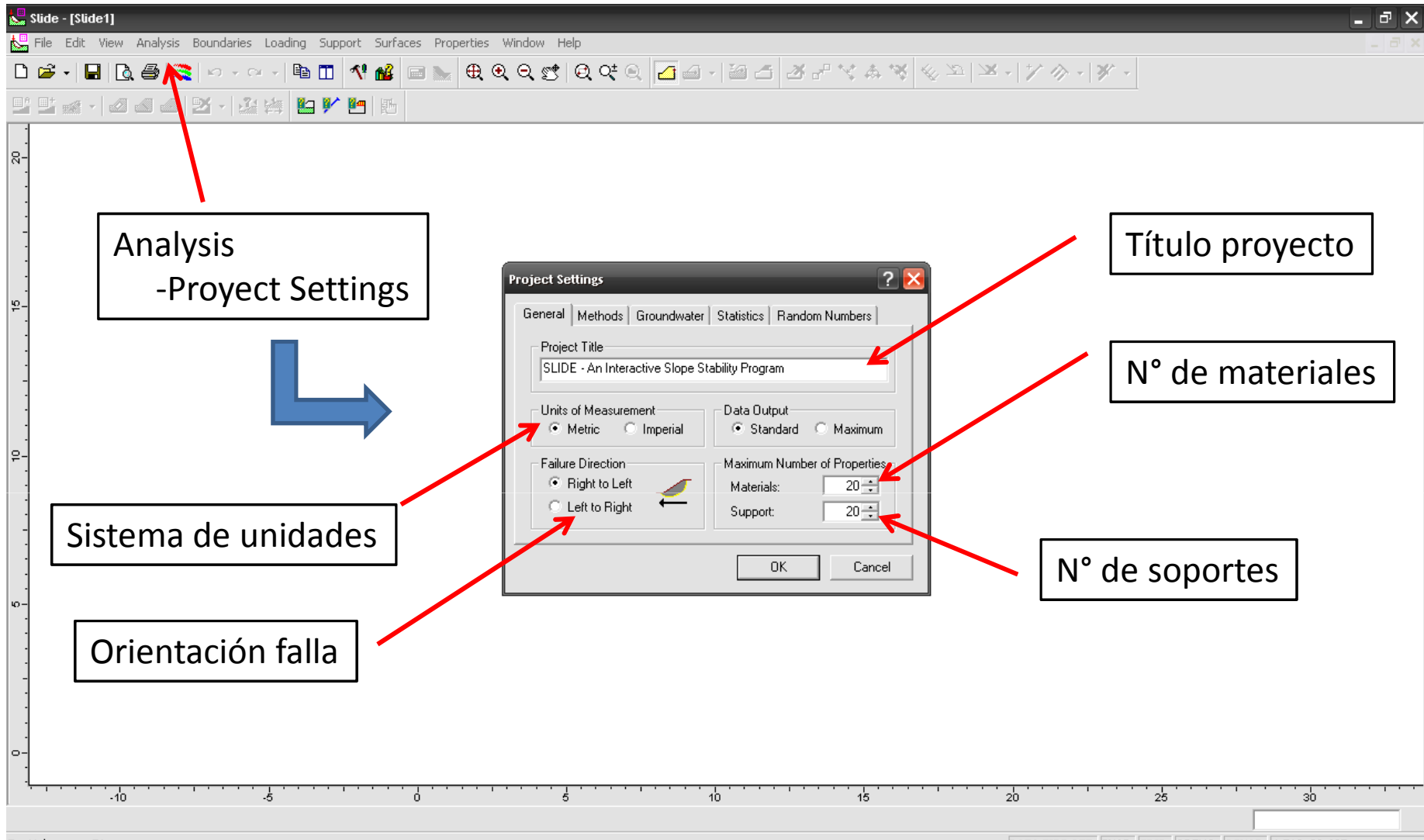
Profesor

Dr. Raúl Castro

Ayudantes

Miguel Angel Fuenzalida

Luis Felipe Orellana



Slide - [Slide1]

File Edit View Analysis Boundaries Loading Support Surfaces Properties Window Help

Analysis -Project Settings

Metodología

Project Settings

General Methods Groundwater Statistics Random Numbers

Methods

- ☒ Bishop simplified
- ☐ Corps of Engineers #1
- ☐ Corps of Engineers #2
- ☐ GLE/Morgenstern-Price
- ☒ Janbu simplified
- ☐ Janbu corrected
- ☐ Lowe-Karafiath
- ☐ Ordinary/Fellenius
- ☐ Spencer

Convergence Options

Number of slices: 25

Tolerance: 0.005

Maximum number of iterations: 50

Advanced...

Interslice force function

Half Sine Change...

OK Cancel

Presencia de Agua

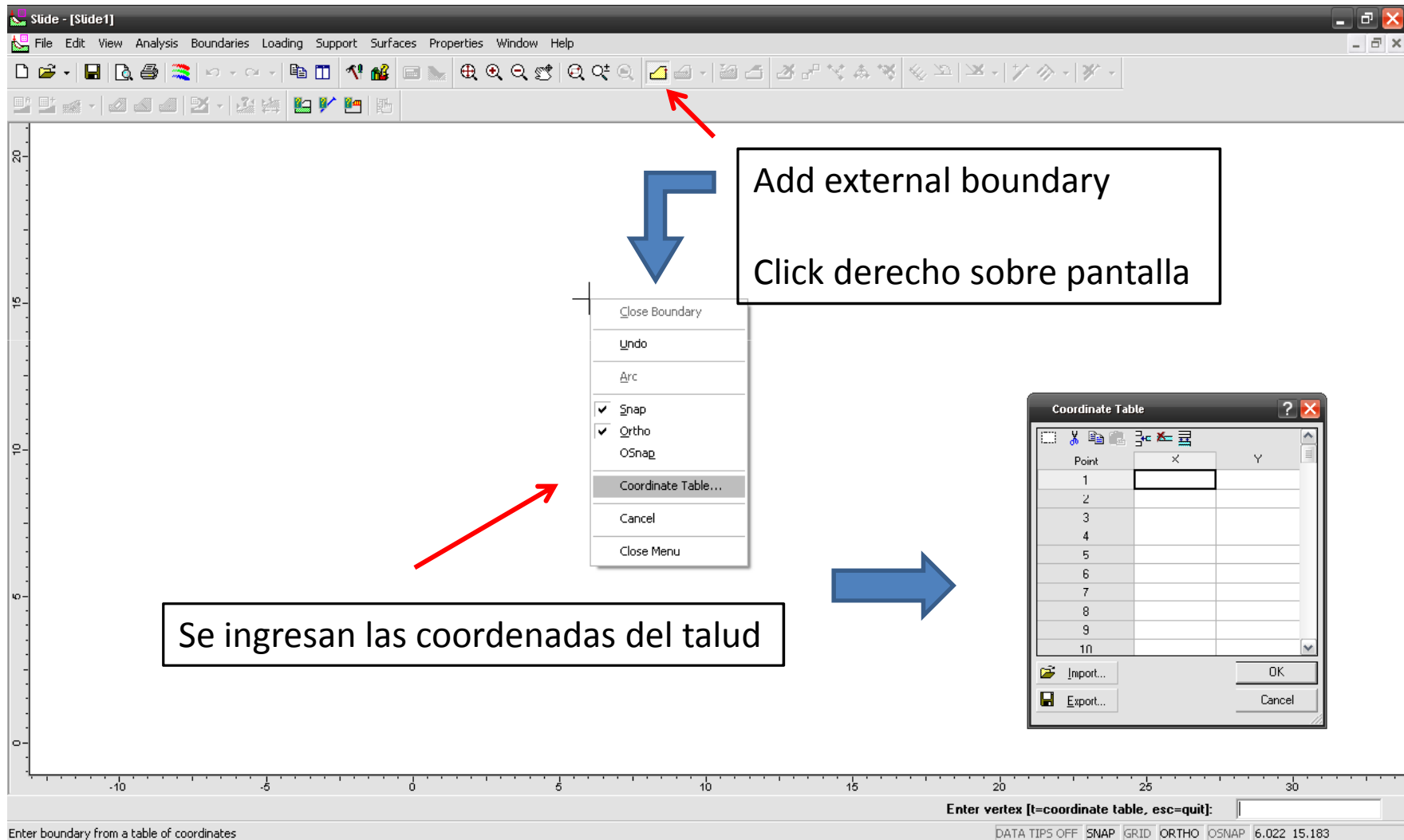
Opciones de convergencia

For Help, press F1

DATA TIPS OFF SNAP GRID ORTHO OSNAP 4.719 20.697

Inicio U-Cursos :: MI... Diplomado GM... Slide - [Slide1] Swedge 21-Falla_cunas... Presentación1 ES 12:14

Creación de bordes



Slide - [Slide1]

File Edit View Analysis Boundaries Loading Support Surfaces Properties Window Help

Close Boundary
Undo
Arc
✓ Snap
✓ Ortho
OSnap
Coordinate Table...
Cancel
Close Menu

Add external boundary
Click derecho sobre pantalla

Se ingresan las coordenadas del talud

Coordinate Table

Point	X	Y
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

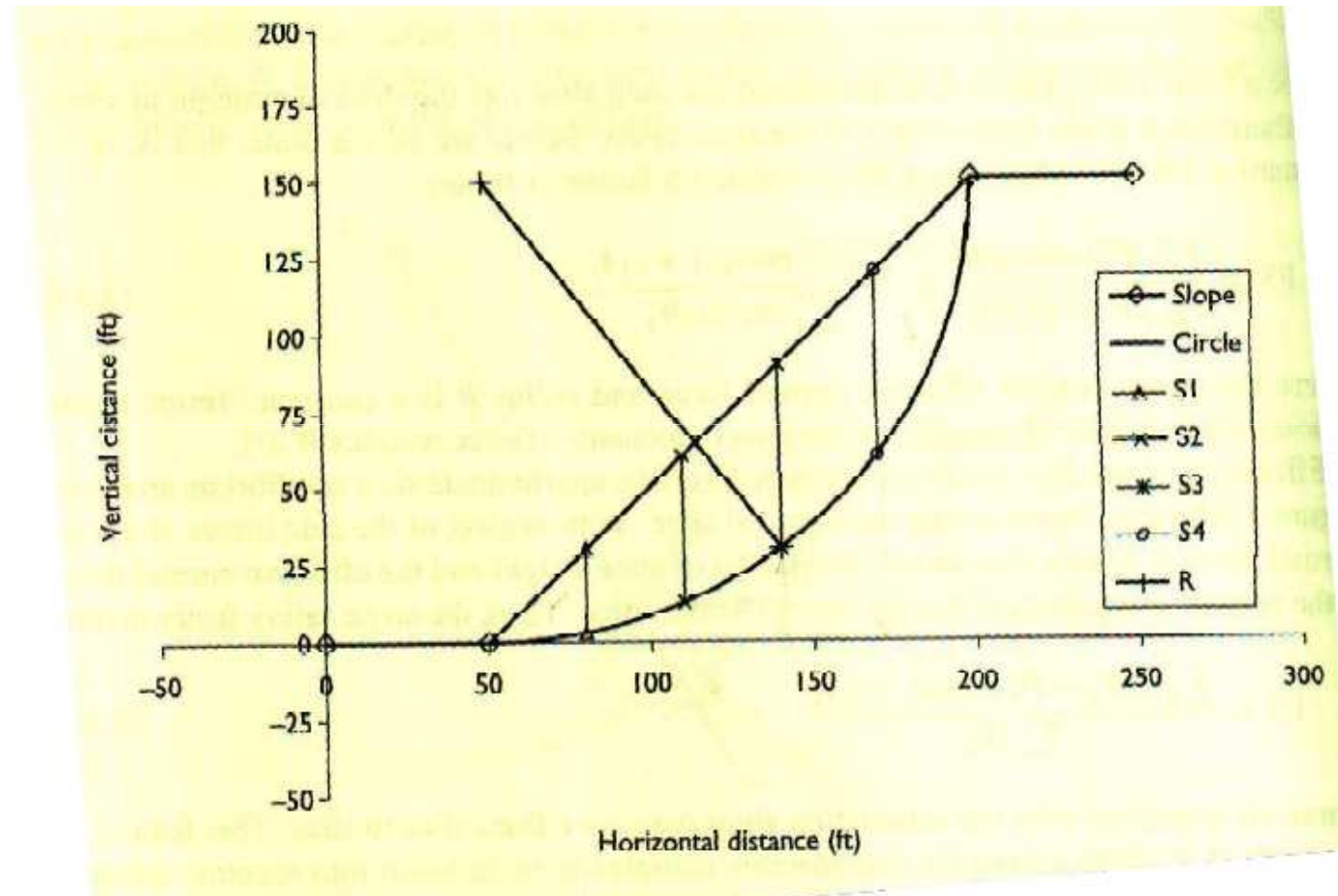
Import... OK
Export... Cancel

Enter vertex [t=coordinate table, esc=quit]:

Enter boundary from a table of coordinates

DATA TIPS OFF SNAP GRID ORTHO OSNAP 6.022 15.183

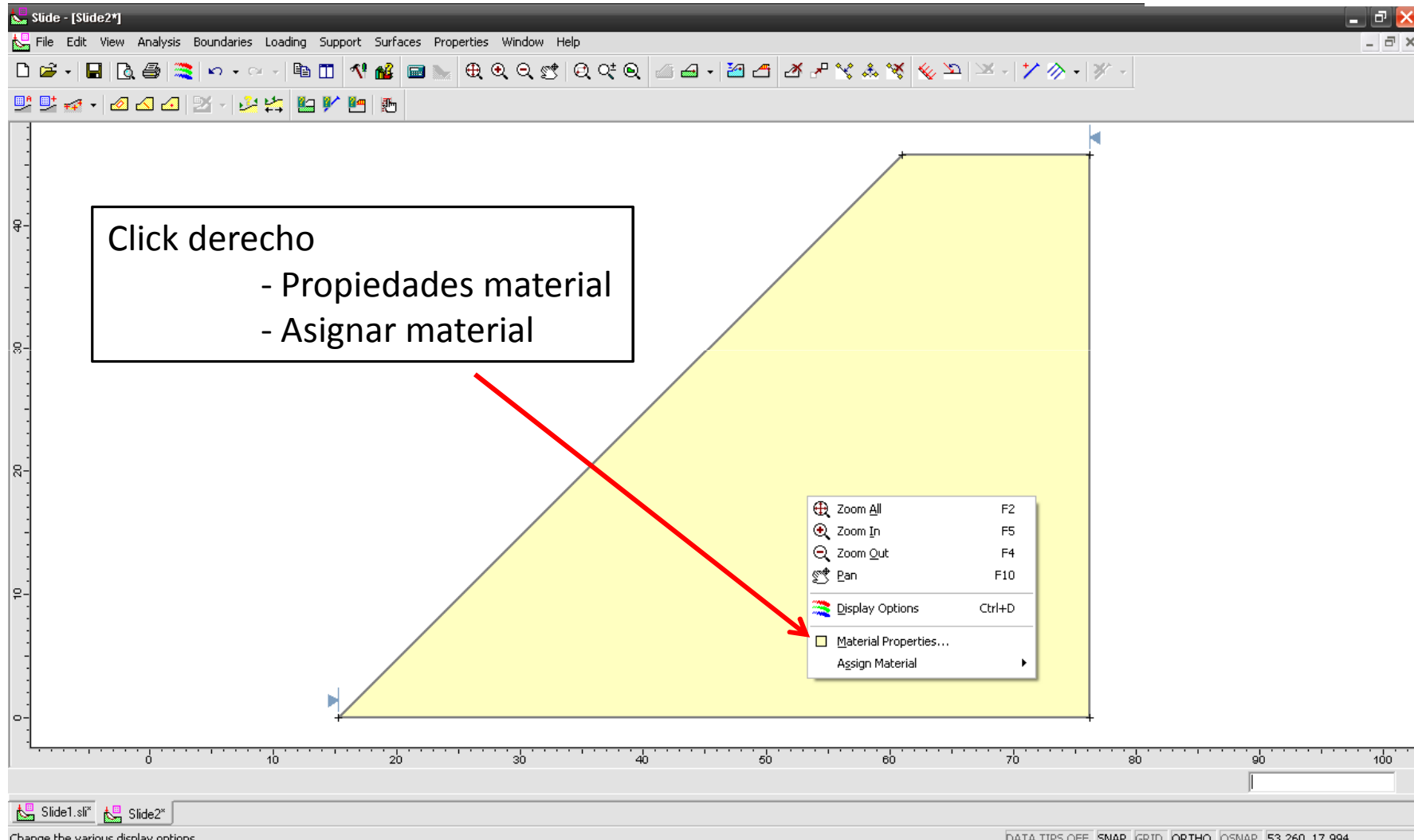
Coordenadas



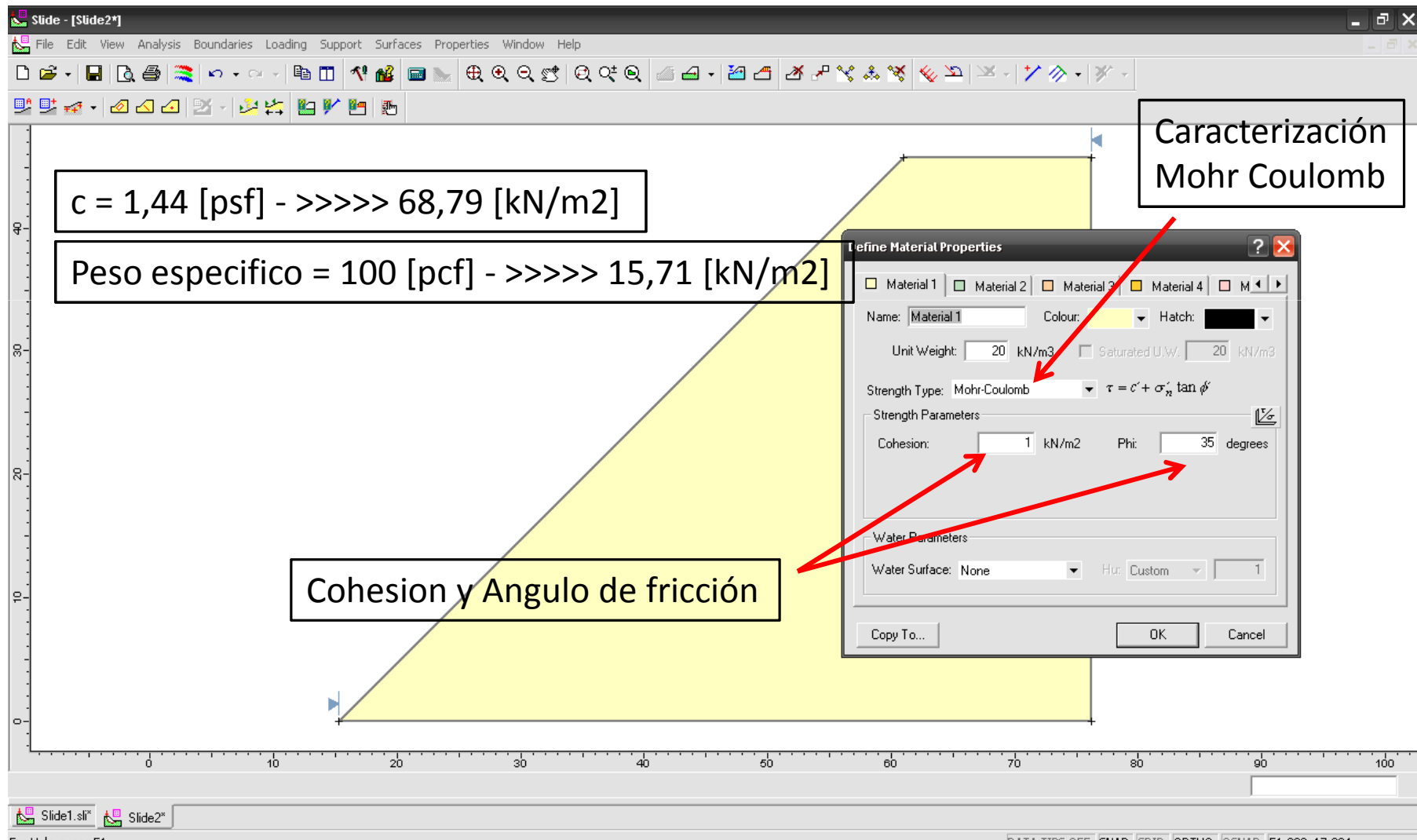
X [m]	Y [m]
15.24	0
76.2	0
76.2	45.72
60.96	45.72
15.24	0

Conversion [ft] a [m] = 0.3048

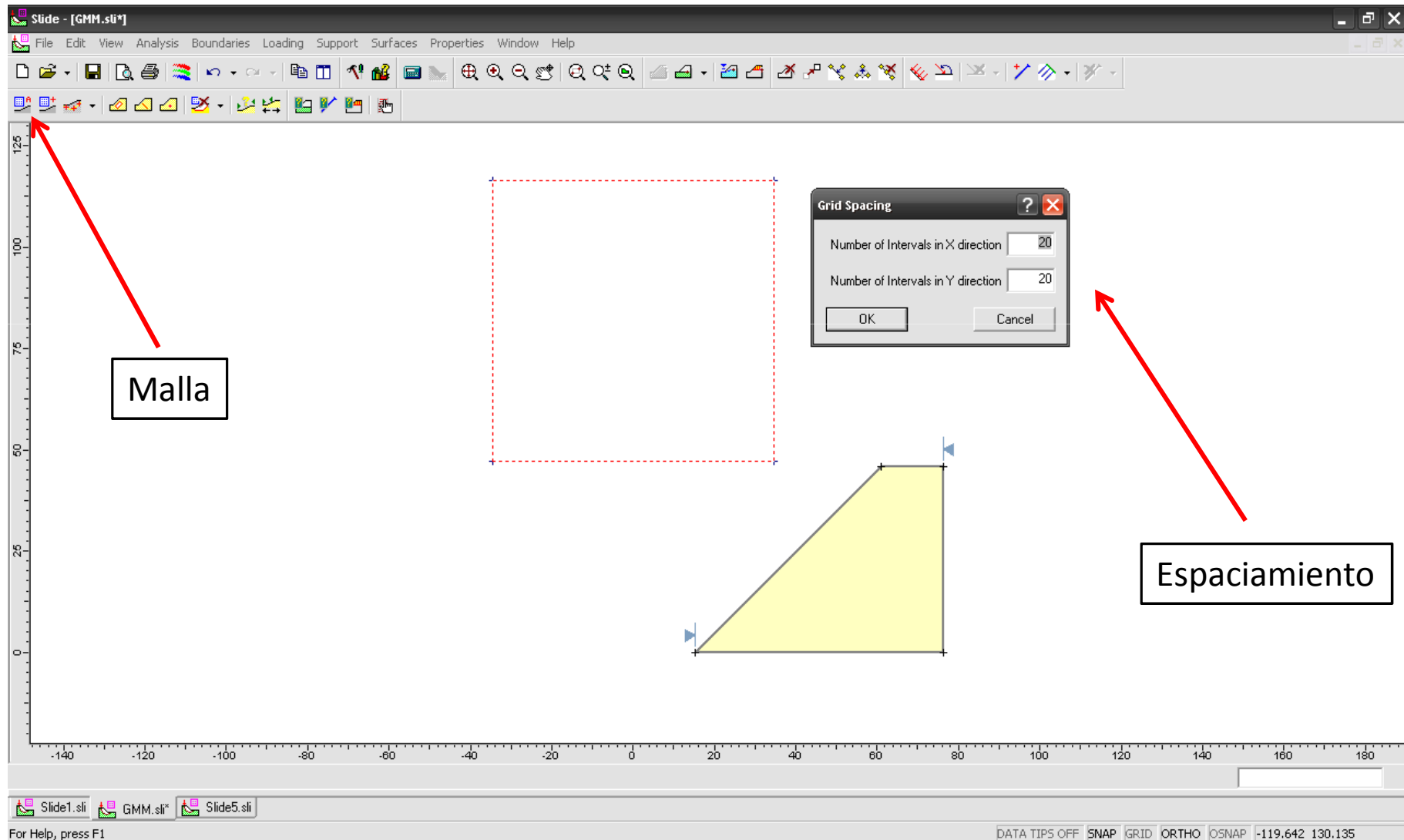
Propiedades macizo



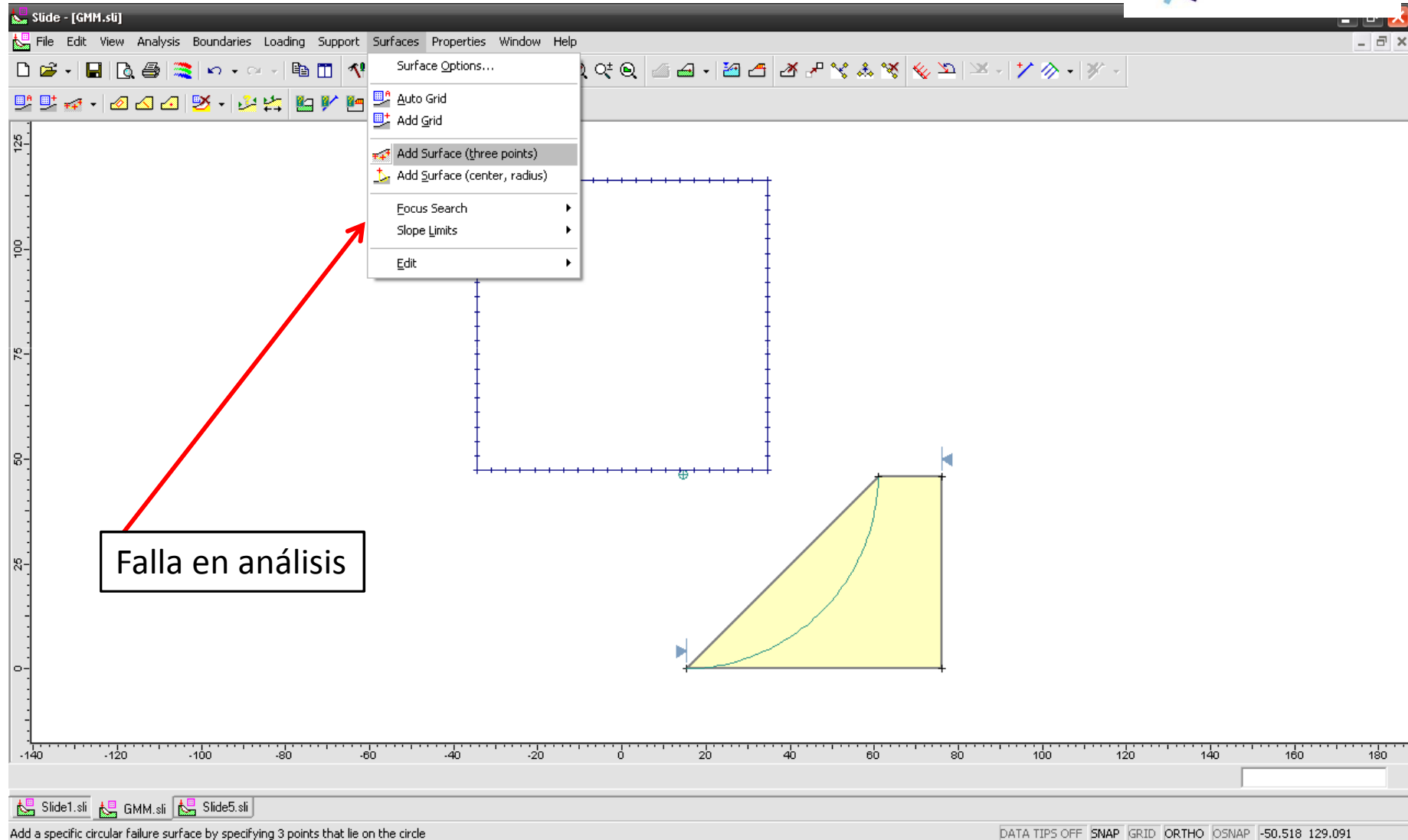
Propiedades macizo



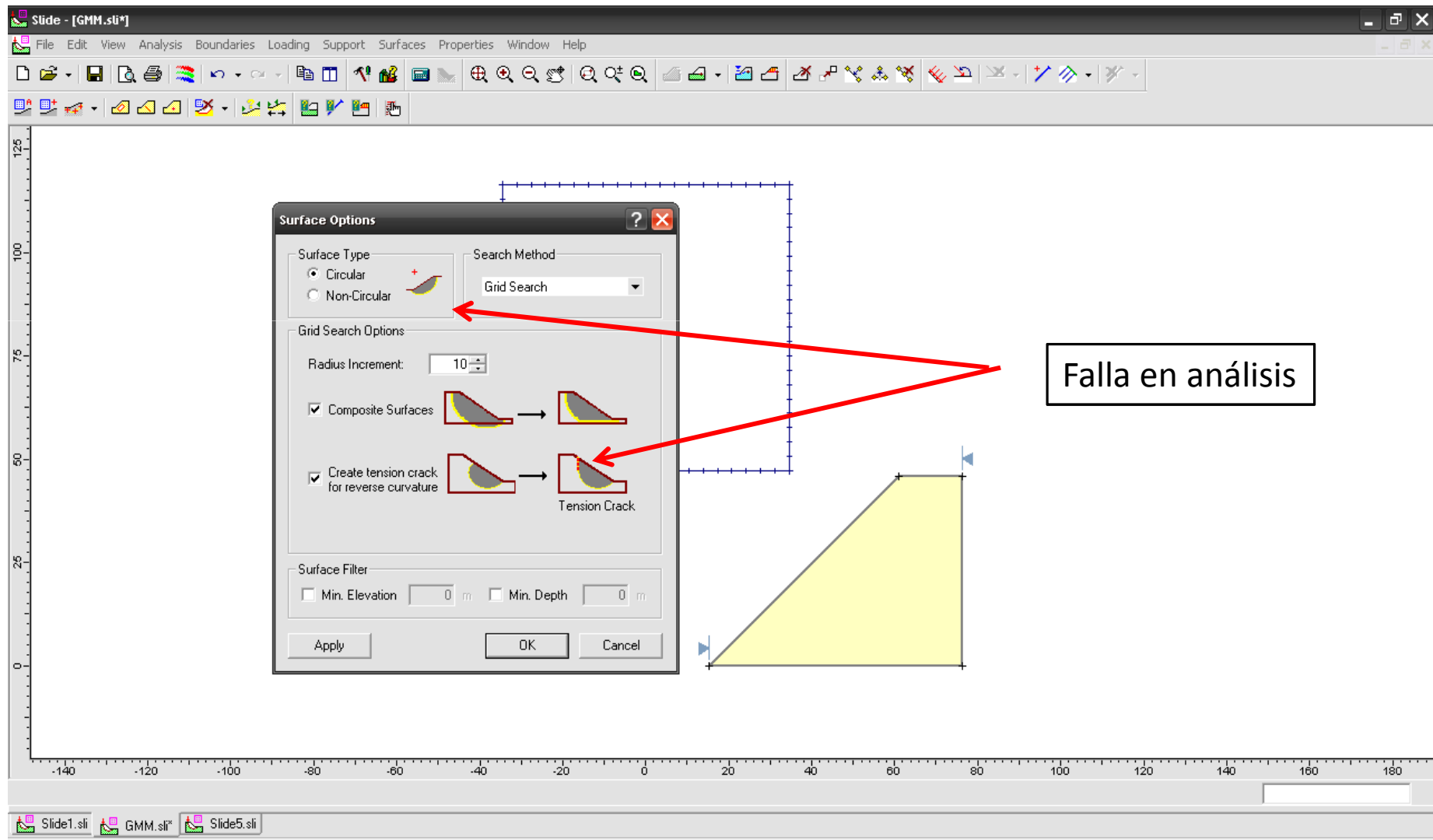
Malla



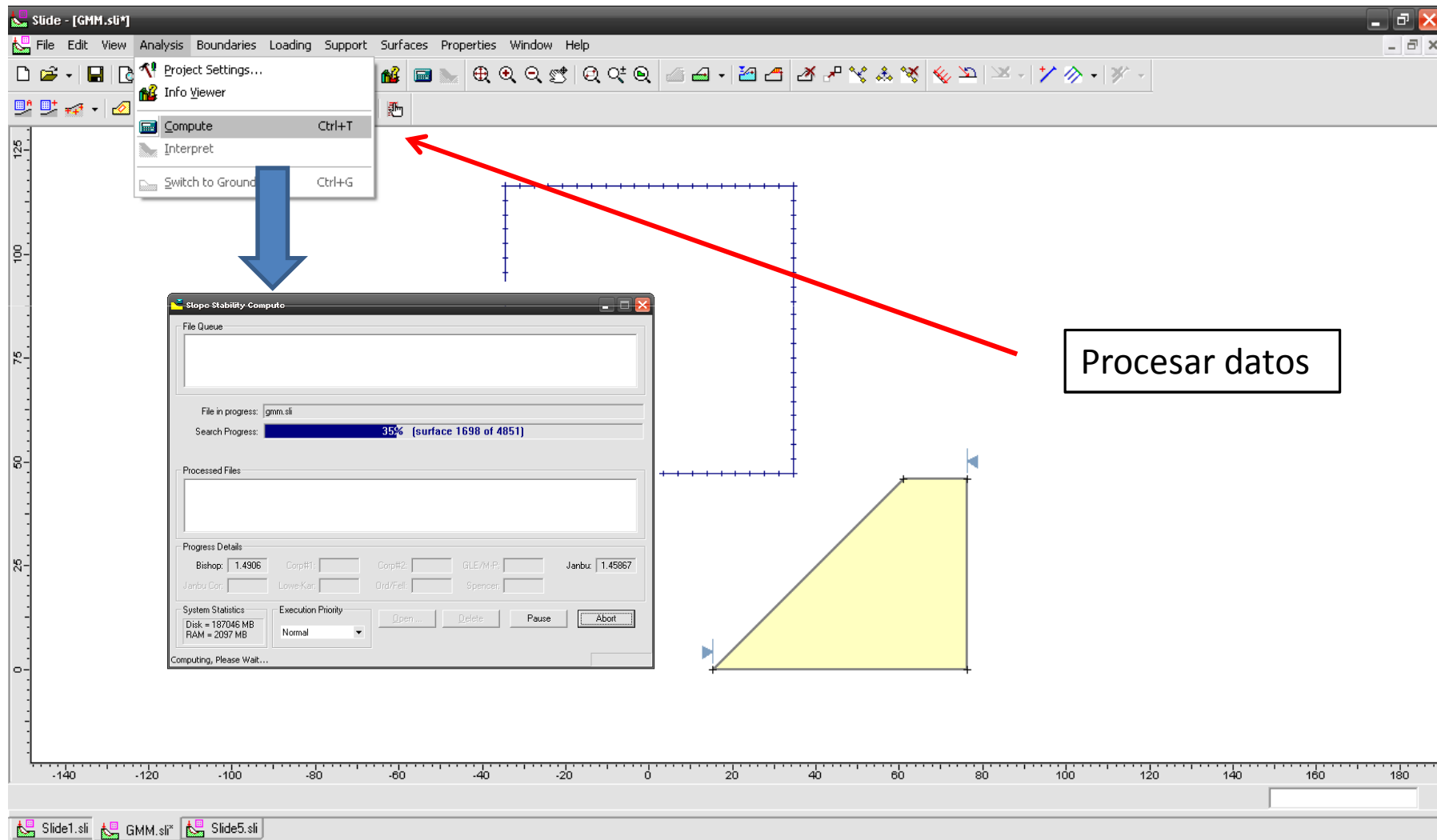
Falla circular



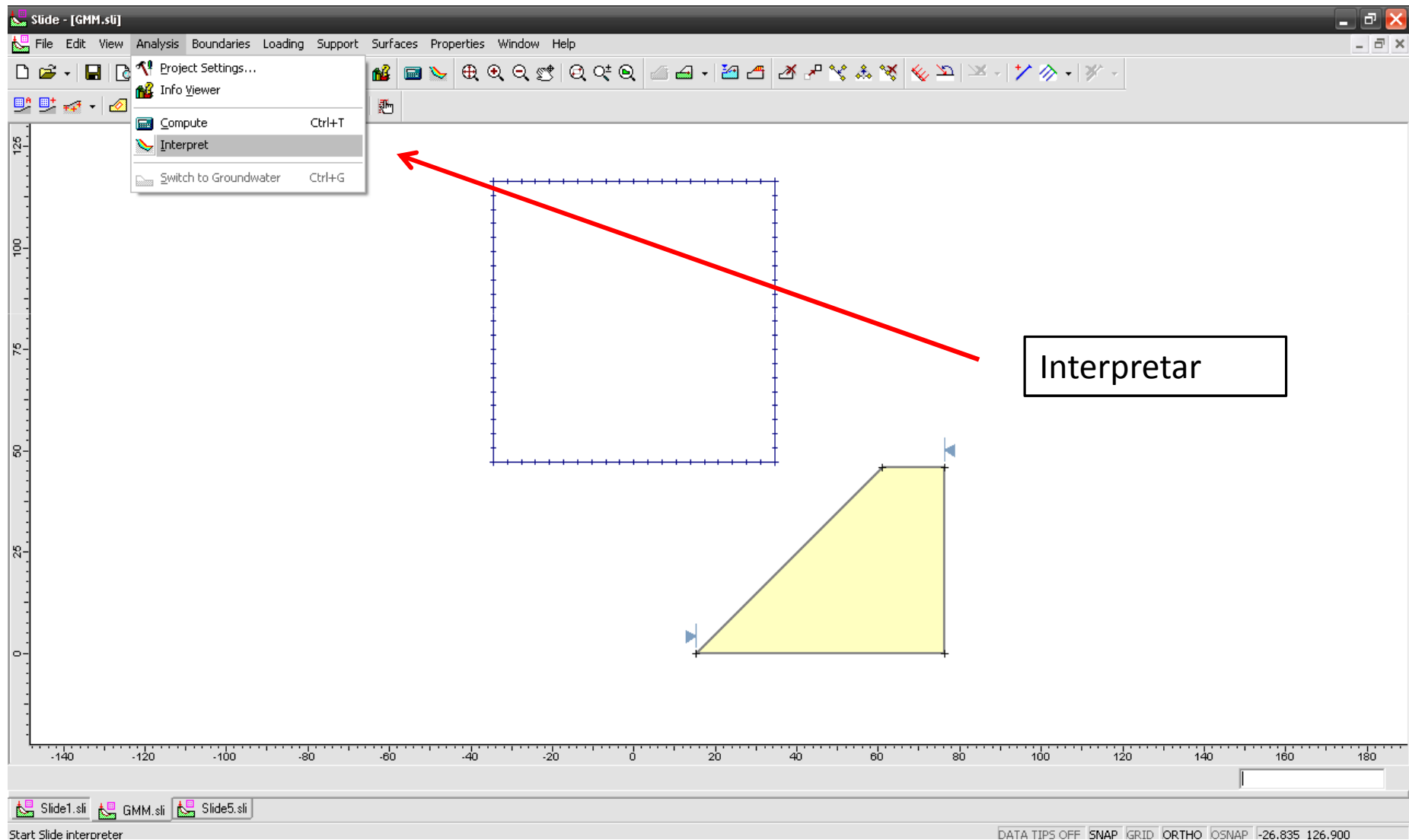
Falla circular



Análisis



Interpretación



Interpretación

