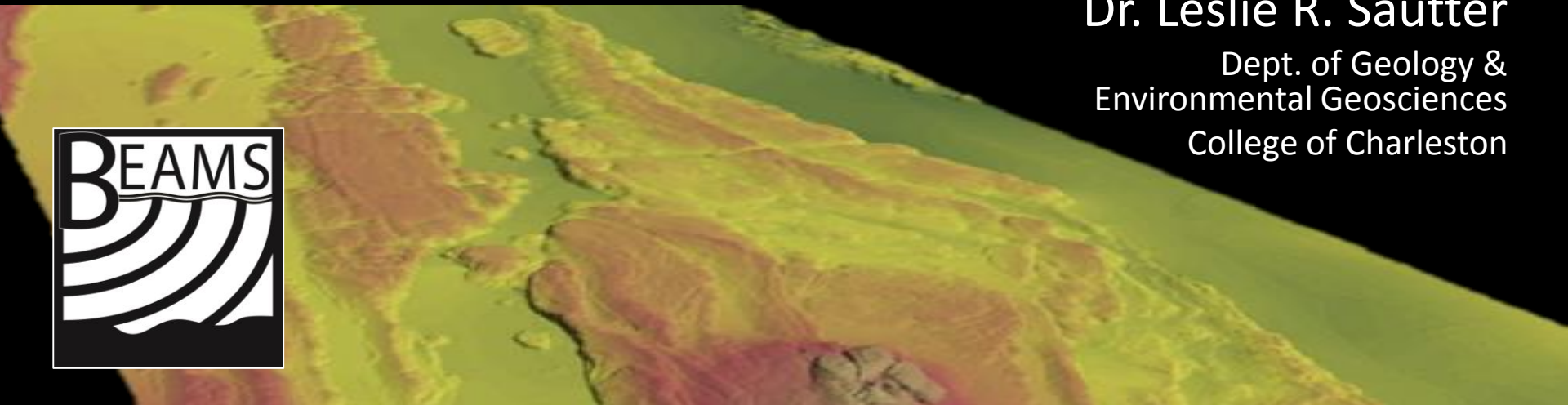


# Bathymetric and Geomorphological Analysis off Inishmore Island, Ireland

Treyson Gillespie &  
Dr. Leslie R. Sautter

Dept. of Geology &  
Environmental Geosciences  
College of Charleston

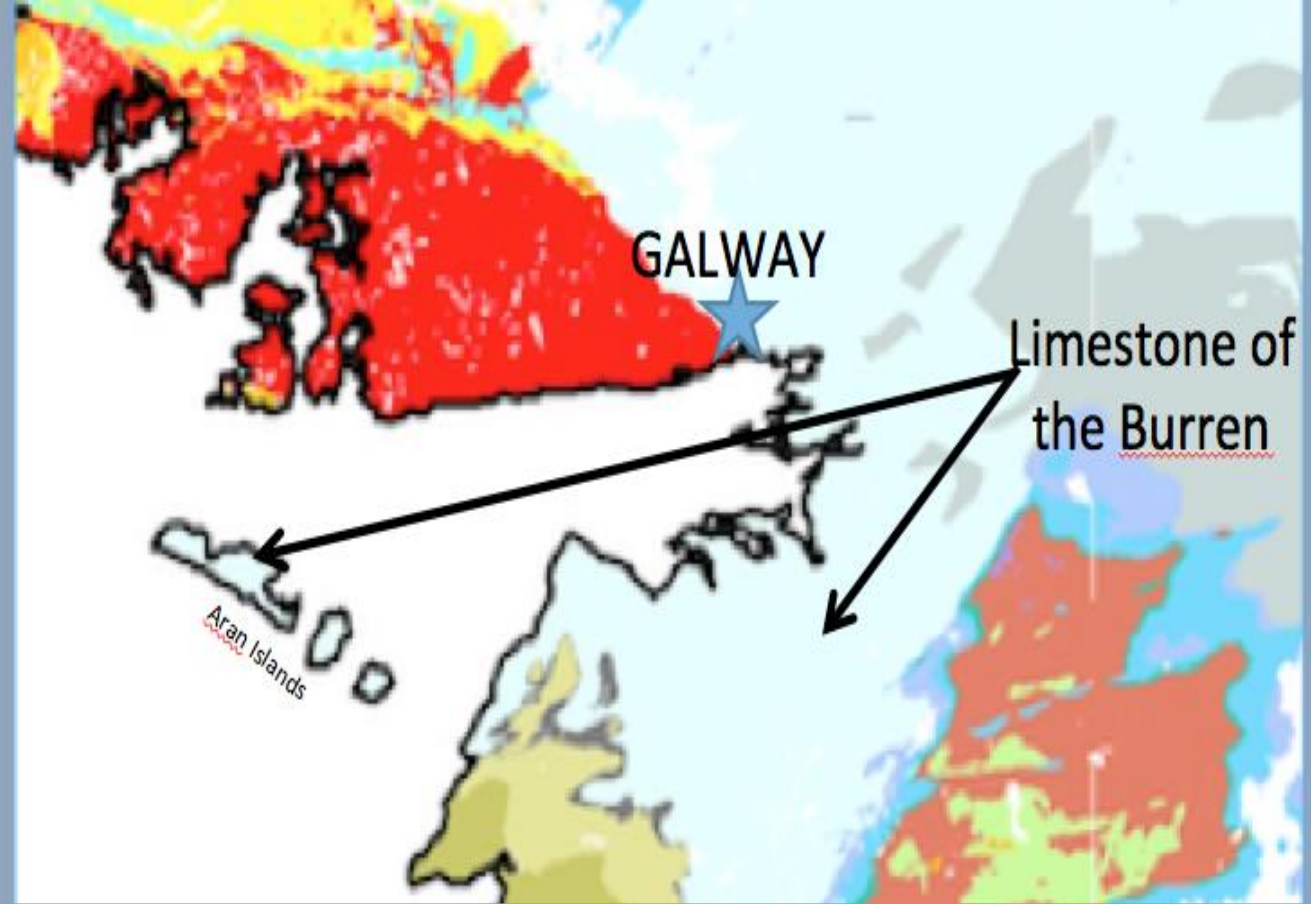


# Inishmore, Ireland



# Inishmore, Ireland

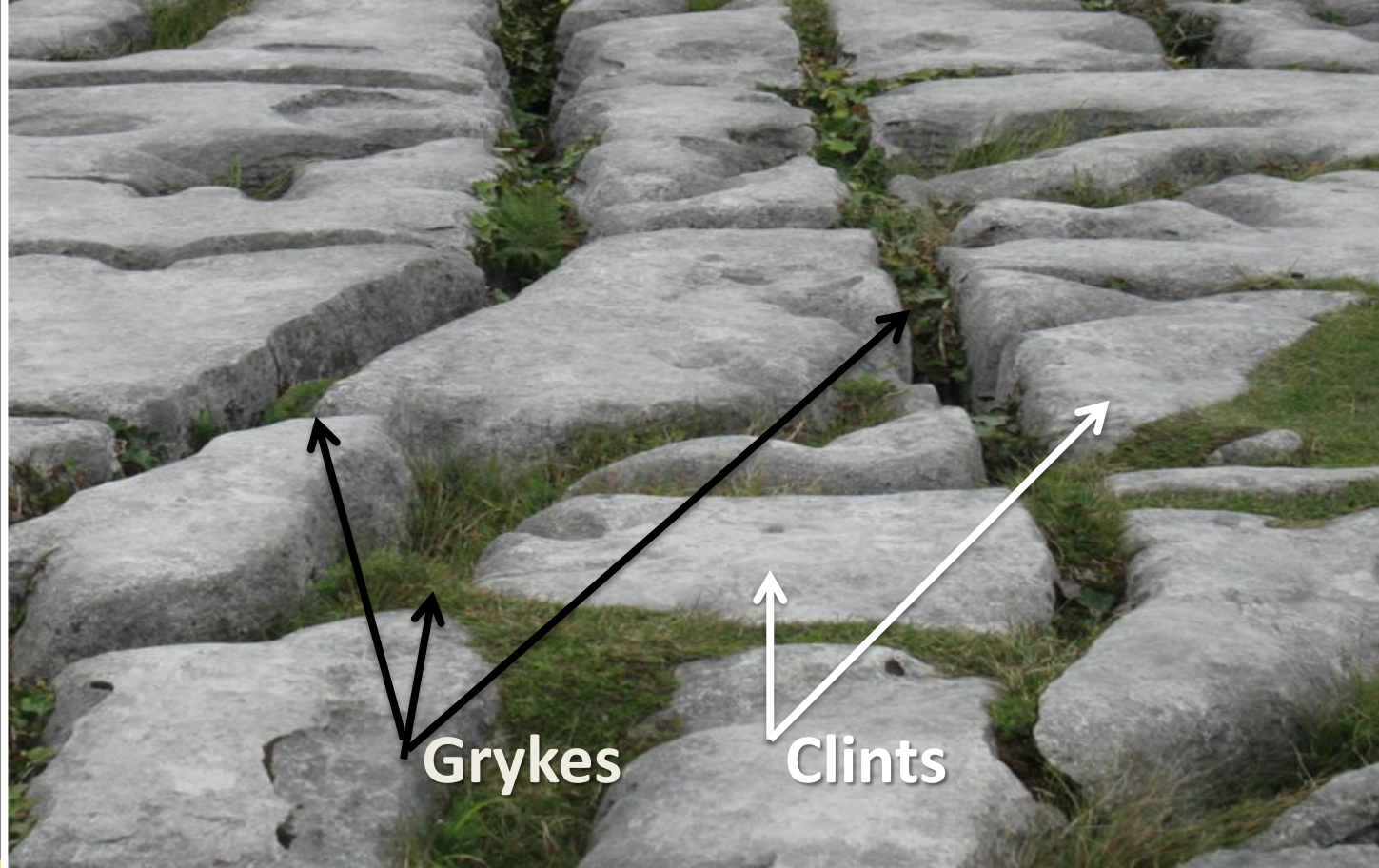




# GLACIO-KARST FEATURES



# GLACIO-KARST FEATURES



Grykes

Clints

# GLACIO-KARST FEATURES

# GLACIO-KARST FEATURES

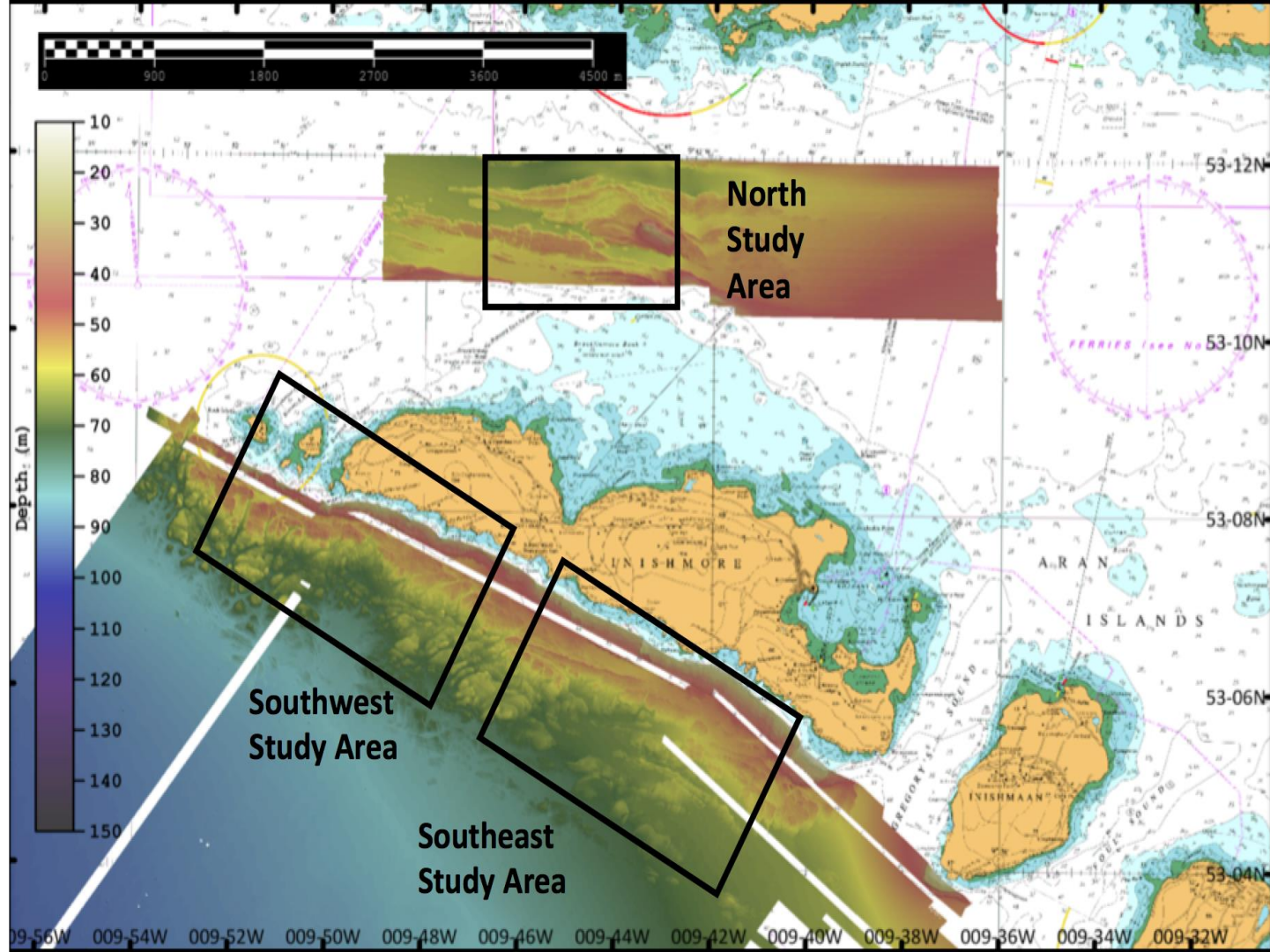


# Methods

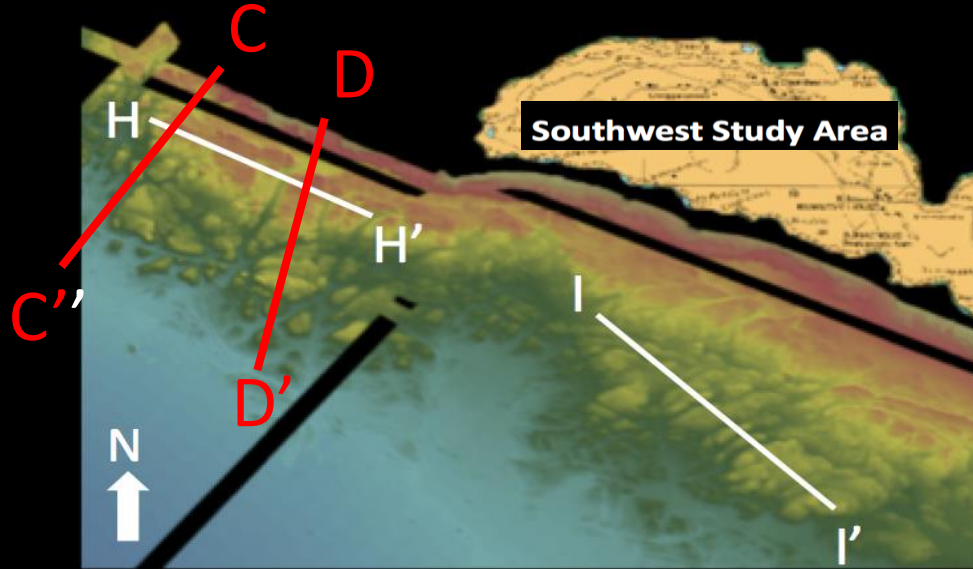
- Cruise # CV14\_01
- R/V *Celtic Voyager*
- June 2014
- CARIS HIPS & SIPS  
9.1
- 2m resolution  
bathymetric surface







# SHORE PARALLEL PROFILES



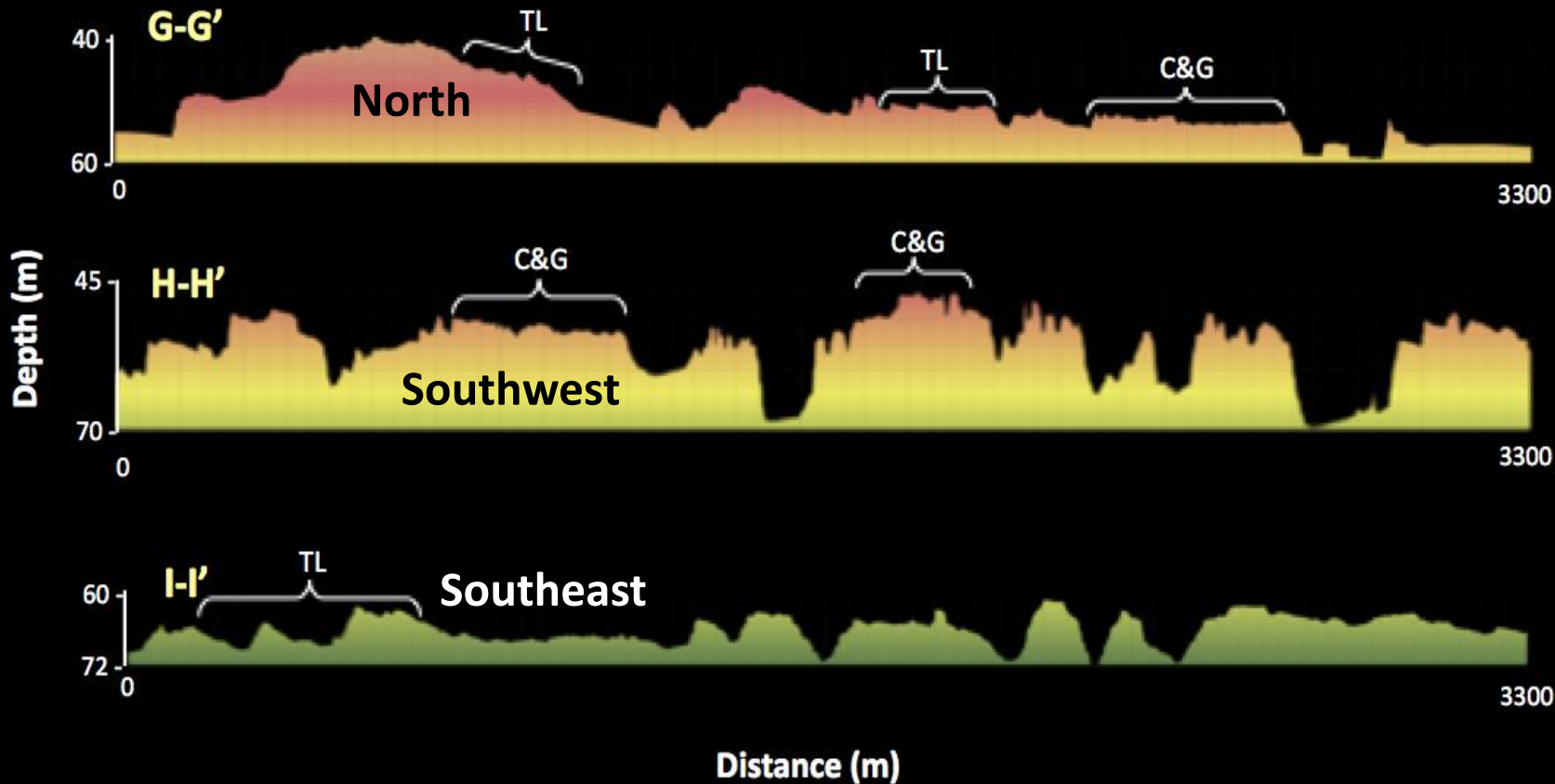
# SHORE NORMAL PROFILES

METHODS

All profiles: VE = 17x

# Shore-Parallel Profiles and Geomorphology

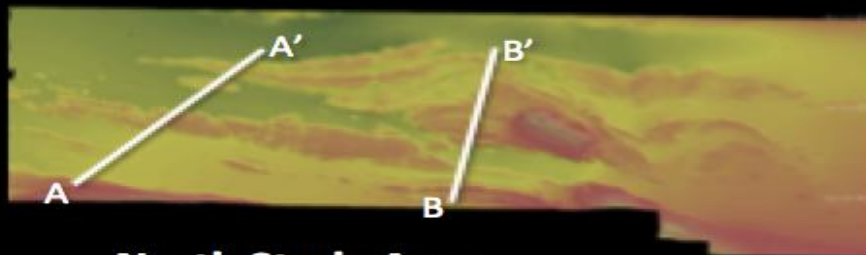
# RESULTS



# RESULTS

## Shore-Normal Profiles and Geomorphology

Profile VE = 17x



North Study Area

43

A-A'

66

0

2705

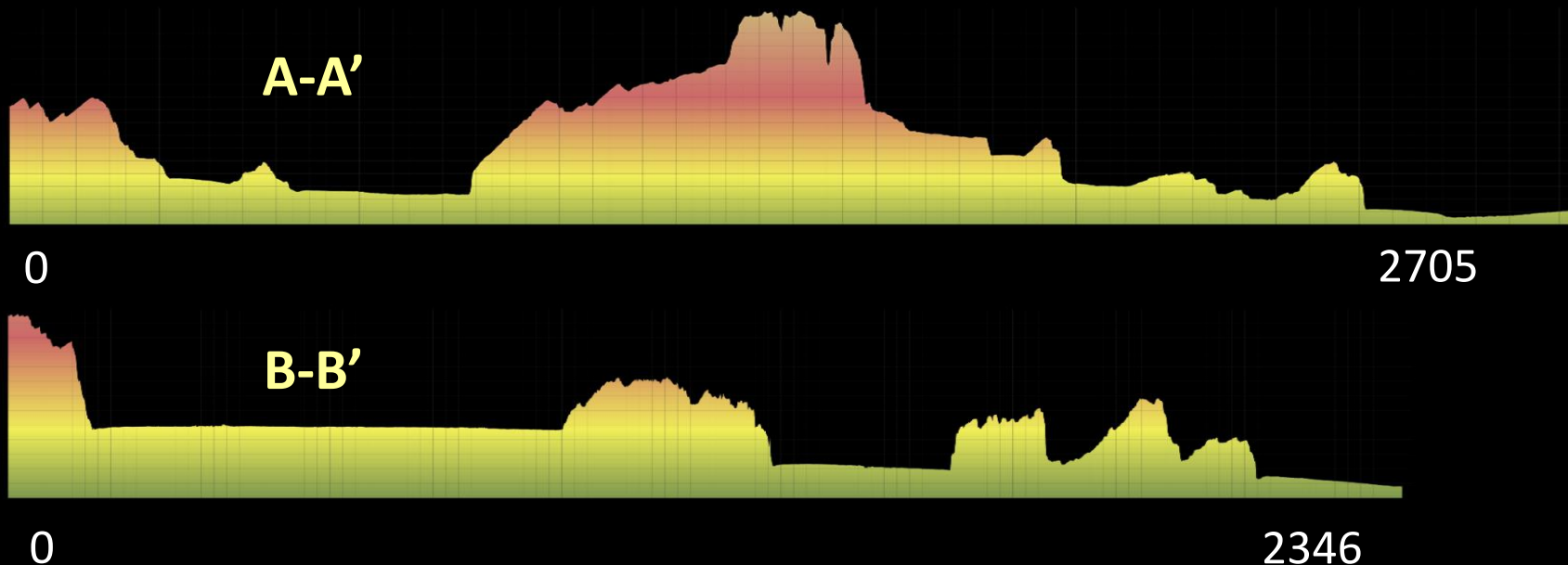
47

B-B'

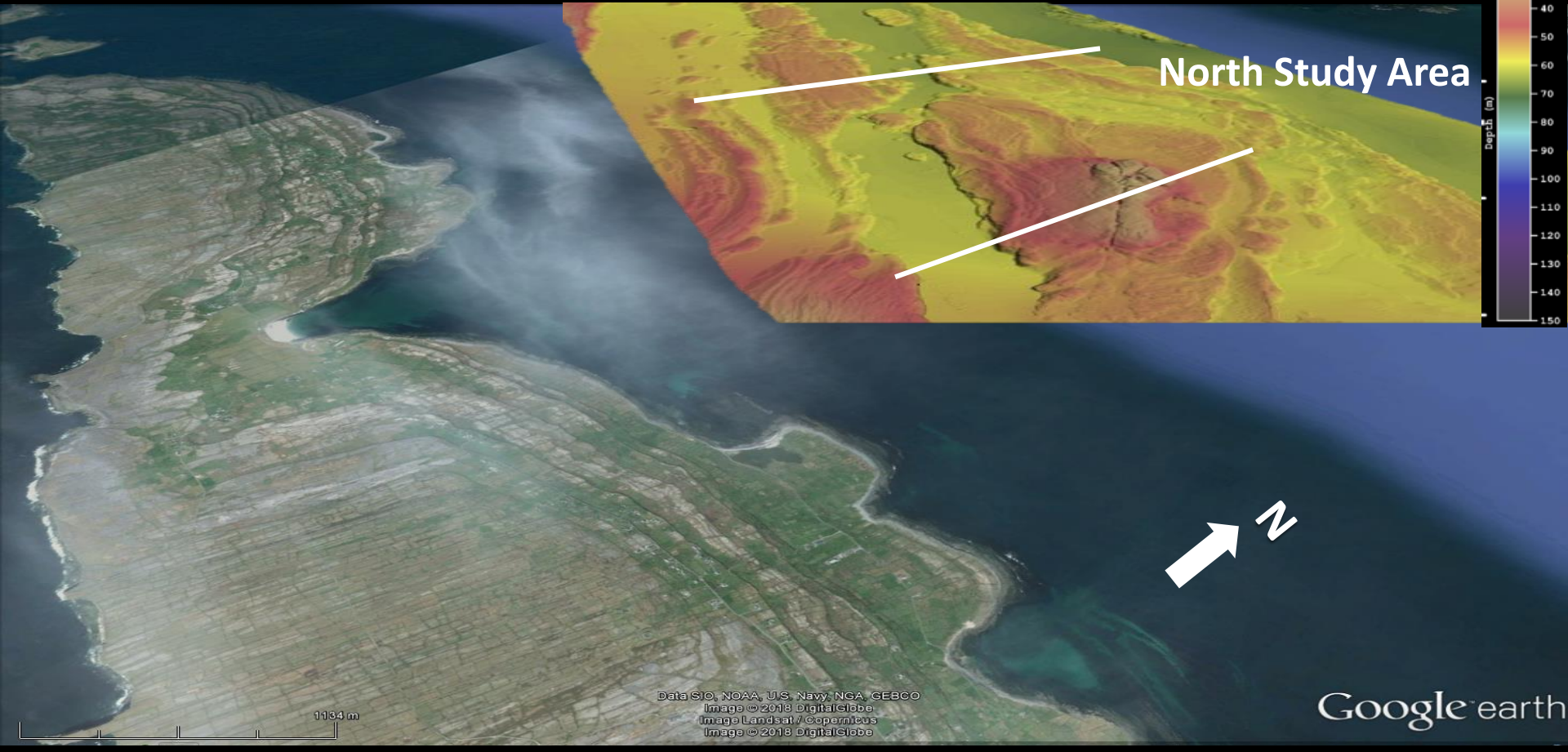
63

0

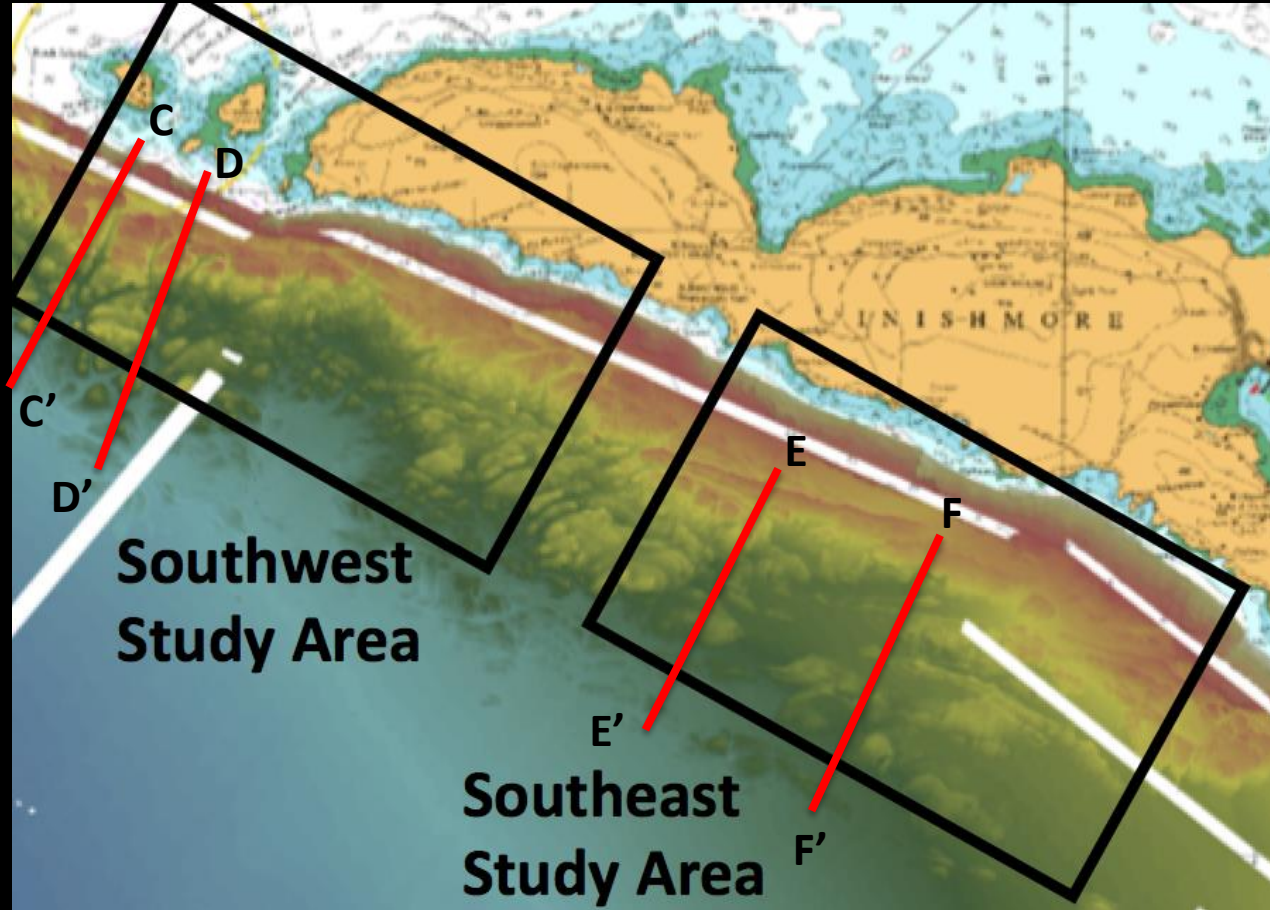
2346



# Study Sites (3D)

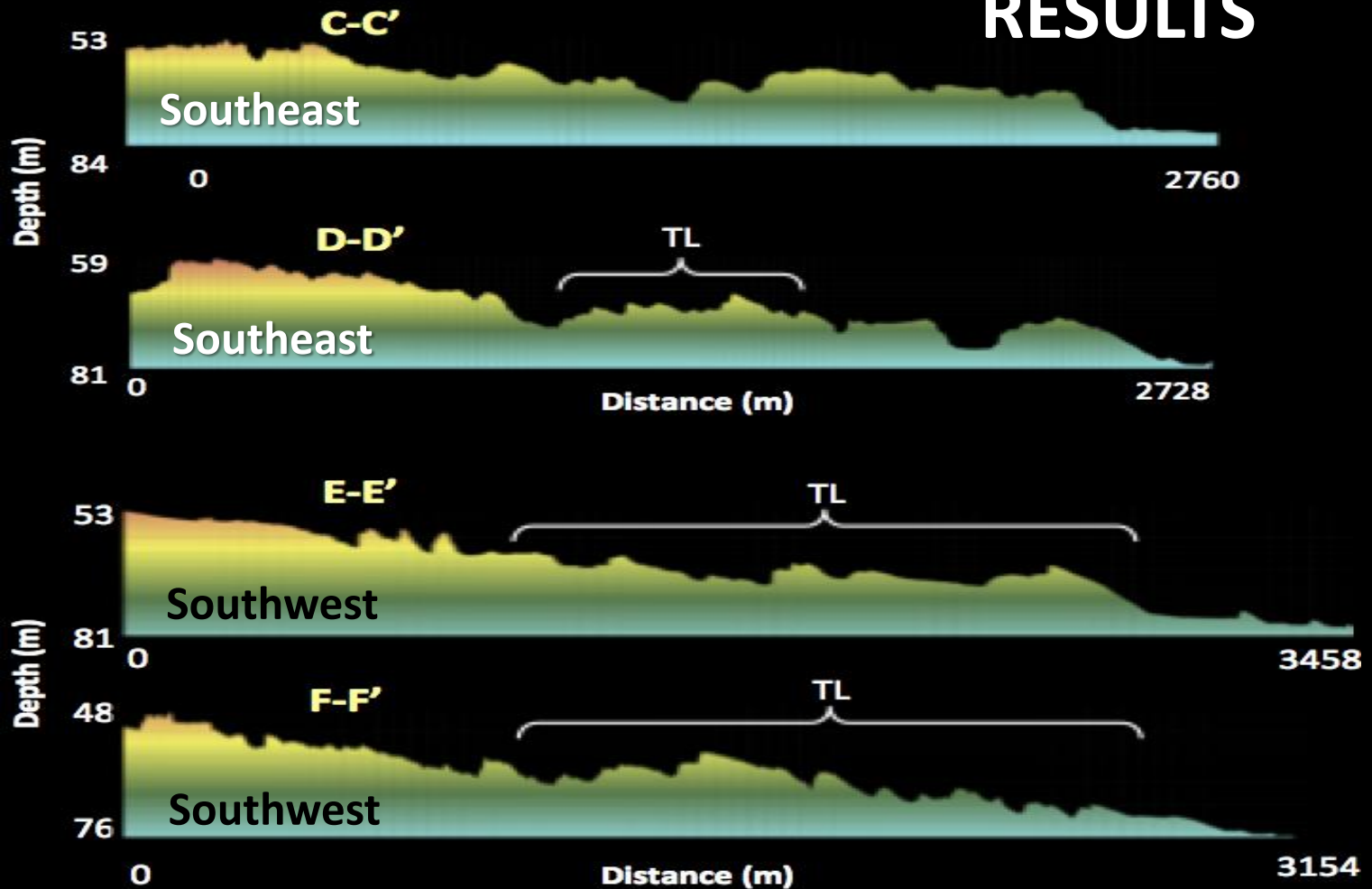


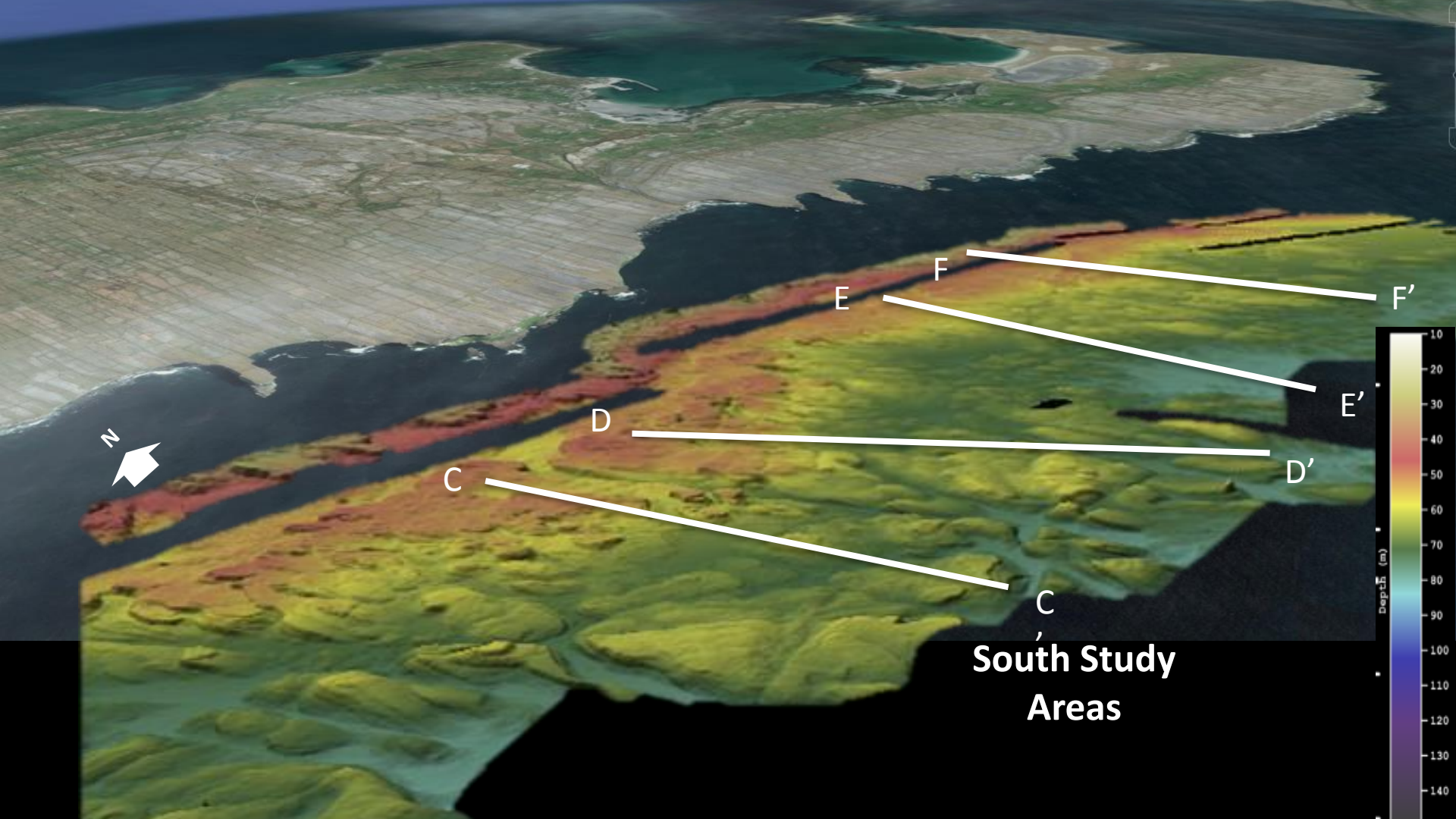
# RESULTS



# RESULTS

All profiles:  
VE = 17x



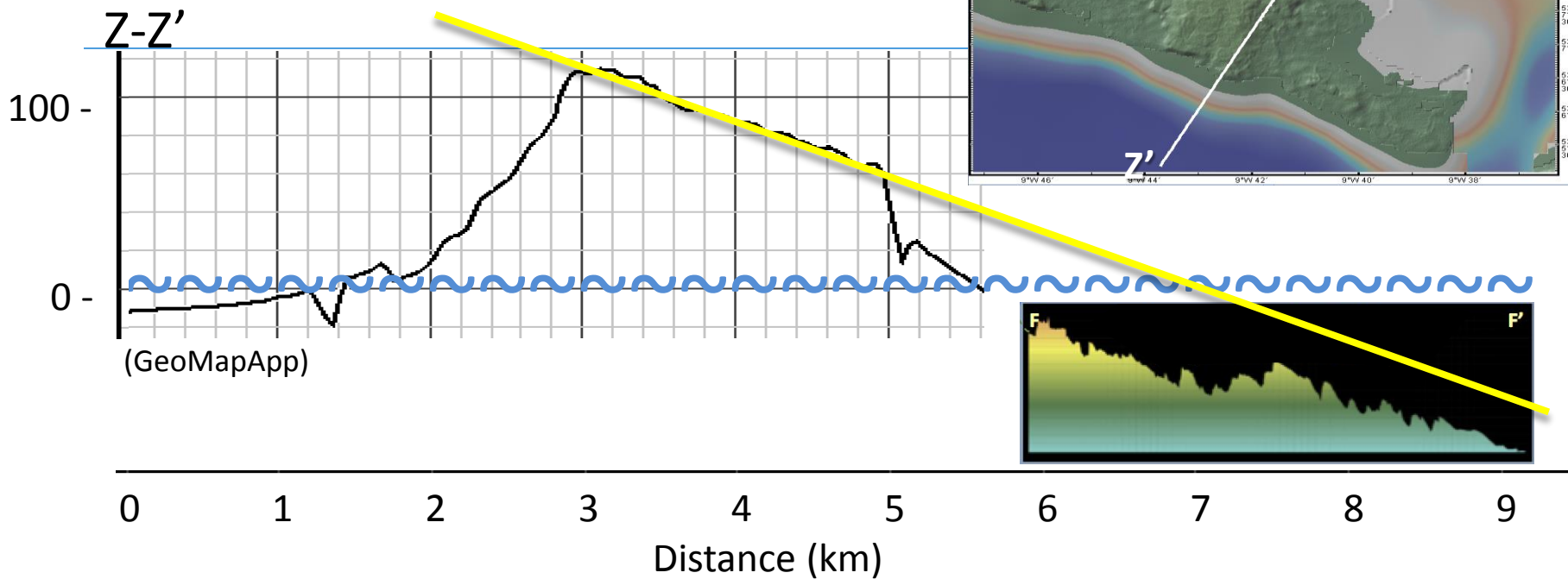




# CROSS-ISLAND PROFILE

+120 m to -76 m

VE = 17x



(GeoMapApp)

# CROSS-ISLAND PROFILE

VE = 6x

Last Glacial Maximum  
(-120m, 18 kya)

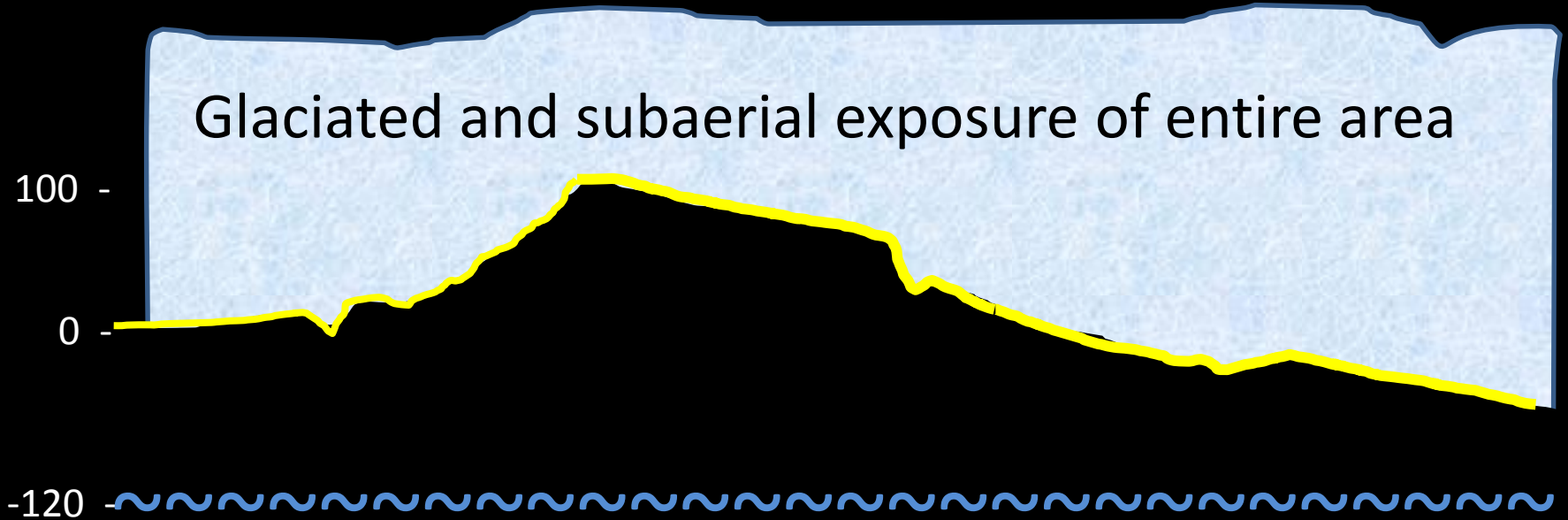


# CROSS-ISLAND PROFILE

Last Glacial Maximum  
(-120m, 18 kya)

VE = 6x

Glaciated and subaerial exposure of entire area



# CONCLUSIONS

**Extension of Limestone  
Seaward**

**Extension of structural tilt  
seaward**

**Glaciokarst features  
observed in North Area  
Morphology**

