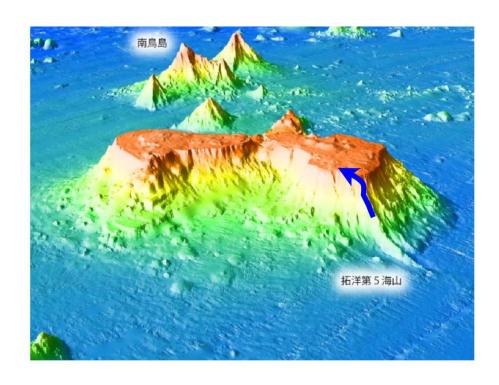
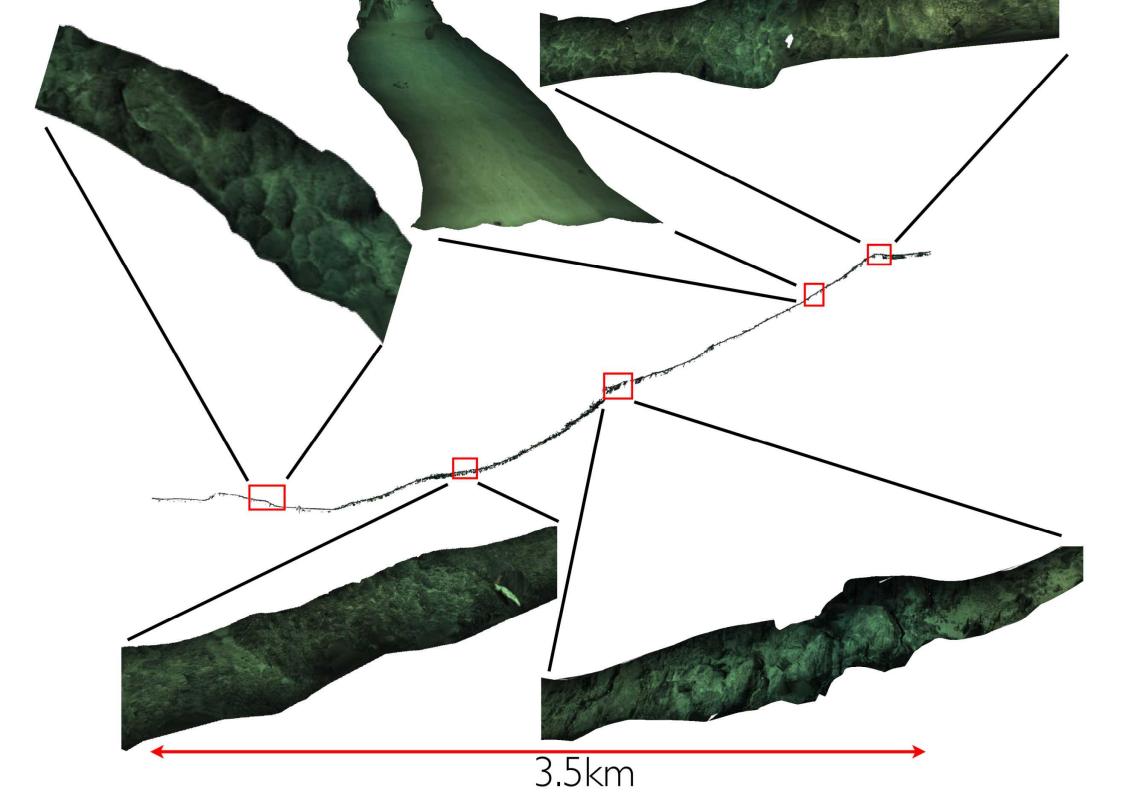
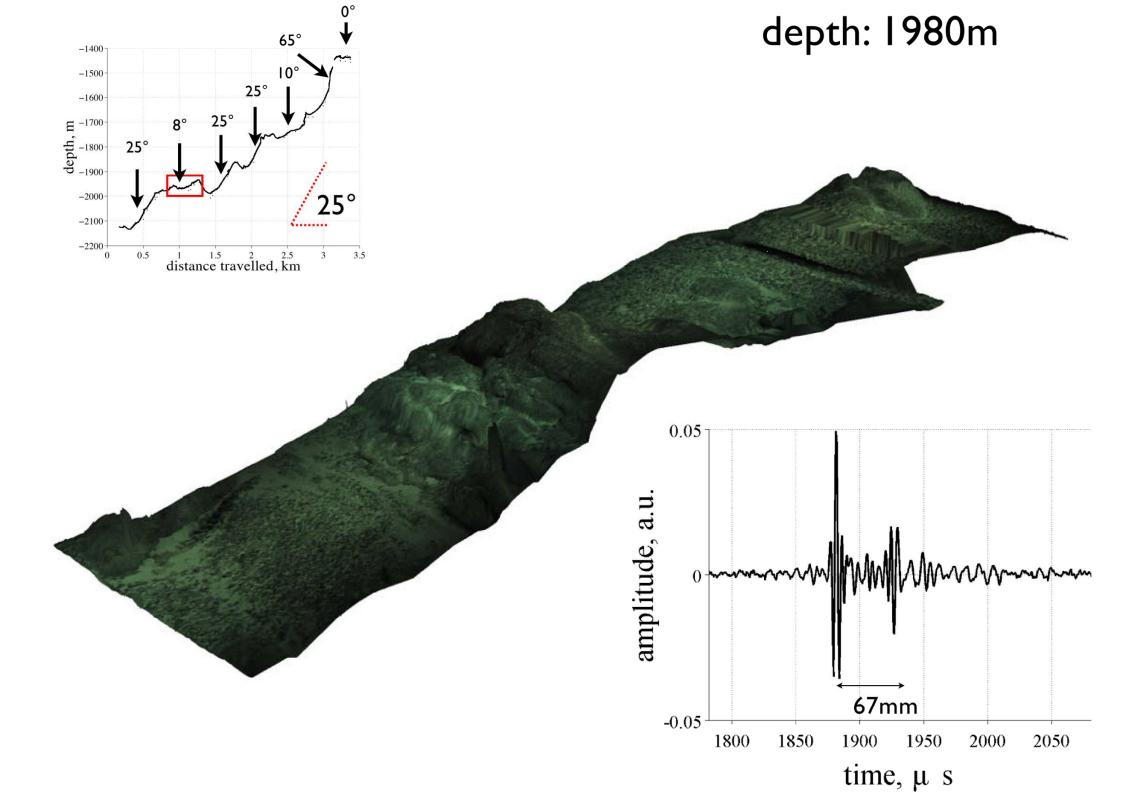
NT I 2-05: Daigo Takuyo

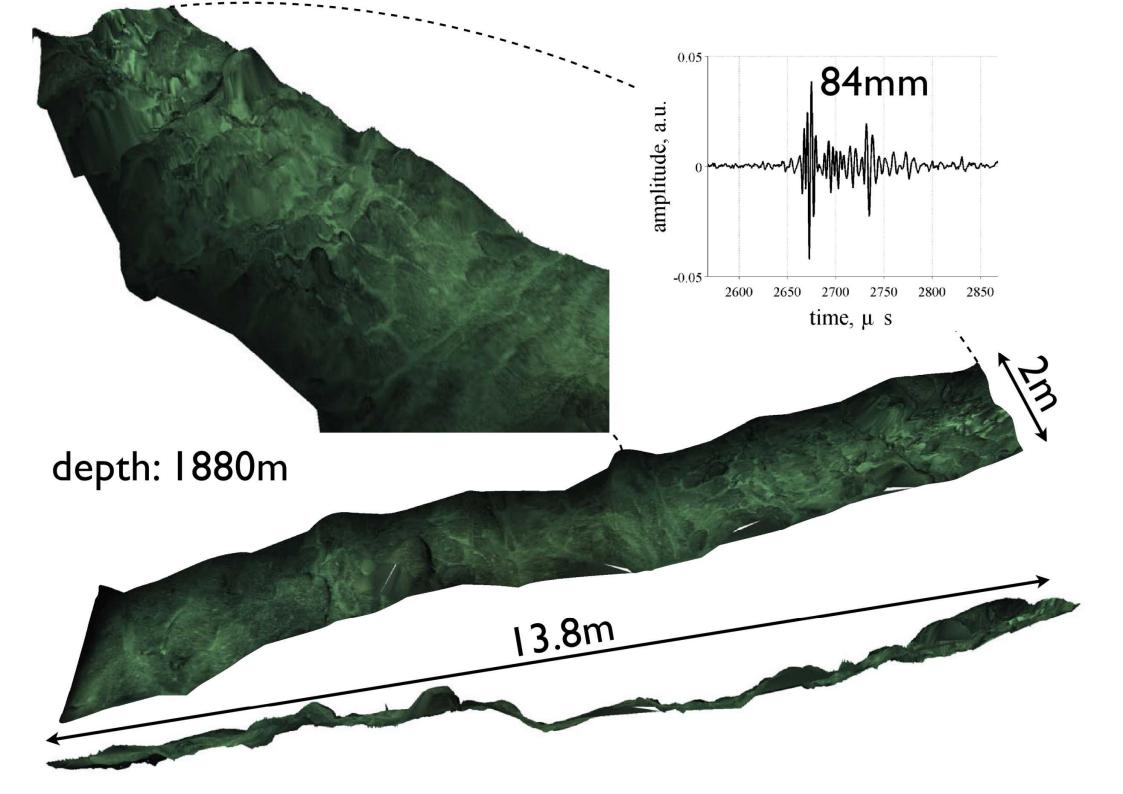




- Acoustic and visual mapping of slopes
- Continuous measurements on slpoes of seamount







Summary

 Continuous acoustic manganese crust thickness measurement at sea

Development of 3000m depth rated probe Confirmation of thickness with samples Use of gimbal for measurement on slopes

Combination of acoustic and visual data

Mmeasurements over 3.5km distance from 1.5m±0.5m Effective tool for crust survey to complement sampling

Basis for efficient manganese crust survey

Interpolation of sample data

More accurate estimate of volume of deposits

Data set	Scanned	Exposed crust	Sediment	Transition	¹ Av. crust	Mass of crust	² Crust per area	³ Crust per
	area [m ²]	[%]	[%]	[%]	thickness [mm]	[tonnes]	of crust [kg/m ²]	area [kg/m²]
A	$44.57_{-4.70}^{+4.84}$	80.8	5.8	9.6	$103.0^{+6.28}_{-6.28}$	$7.12_{-1.25}^{+1.41}$	$197.8^{+16.0}_{-15.6}$	$159.8^{+13.0}_{-12.6}$
В	$30.00^{+3.26}_{-3.16}$	41.3	0.4	40.5	$104.8^{+6.39}_{-6.39}$	$2.49^{+0.49}_{-0.44}$	$201.2^{+16.3}_{-15.9}$	$83.0_{-6.5}^{+6.7}$
С	$97.53^{+10.58}_{-10.29}$	21.8	37.1	29.6	$68.1_{-4.15}^{+4.15}$	$2.78^{+0.55}_{-0.49}$	$130.8^{+10.6}_{-10.3}$	$28.5^{+2.3}_{-2.2}$