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Abteilung für angewandte Lagerstättenlehre RWTH

5100 Aachen Süsterfeldstraße 22

4675 m - 4575 m
Collision with a massive boulder or manganese encrusted outcrop. The force of the collision has jarred the numbers.
A pillow shaped outcrop or boulder about 1.5 meters in cross-section.
The troika has overturned giving a unique view of a highly rounded manganese encrusted boulder with several sea pens growing around.
The troika has righted itself. The bottom has changed to a bioturbated ooze with scattered half buried nodules.
Low density of nodules largely smaller, polynucleate types. A cast likely from an abyssal short-armed starfish (Porcellanaster) is apparent in the center of the photo.
A barren bottom covered with tracks.
Burrows and feces.
Holothurian tracks, possible buried nodules (humps in the background).
An animal is escaping from the troika in the upper left of the photo. The colour and swimming posture suggest it may be one of the starfish which have created the ubiquitor casts.
Track, burrows and feces on a very flat, calm moderately bioturbated abyssal bottom.

from:

PLÜGER, W.L. et al.: Exploration von Manganknollen im Südwestpazifischen Becken; Forschungsbericht MF 0273, BMFT, 1981

Abteilung für angewandte Lagerstättenlehre RWTH 5100 Aachen Süsterfeldstraße 22

Profile 5	5540 m - 5585 m
3.47	Cannonball nodules (8-10 cm) in the upslope area.
3.51	A cloud of very fine sediment stirred by the cable passing near the bottom.
3.53	There are extensive tracks between the nodule indicating considerable bioturbation.
4.07	A rare sight, a broken nodule is seen toward the center of the photo.
4.09	A cone shaped burrow probably of a holothurian is seen amid a nodule field which exhibits a considerable tendency for the nodules to be in rows.
4.22	Strong linear trends of nodules many of which are buried below the equatorial rim. In the lower center is an interesting crater which may be generated by a worm or actinarian (HEEZEN and HOLLISTER 1971).
4.28	Characteristic switchback looped feces of an abyssal acorn worm in the center of the picture.
4.32	Slightly denser packing of the nodules than earlier in the profile.
4.34	Nodules showing very rough possibly dissolution surface textures.
4.53	This photo is toward the end of the profile, the nodules are often almost buried. There is no current action to sweep the sediment clean.

from:
PLÜGER, W.L. et al.: Exploration von Manganknollen im Südwestpazifischen
Becken; Forschungsbericht MF 0273, BMFT, 1981

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