



Pebble beds: lag gravel between sand waves.



Cross-bedding in 3D: Indicators of deposition and direction.



Wave cut bench: Evidence of sea-level change.

- The OGG has established two Earth Age Displays with Rock Gardens at Betty's Bay (Harold Porter Botanical Garden) and Gansbaai (African Penguin Sanctuary). Designed to educate lay-persons and learners about the make up and origins of the Earth and the rocks around us.

Welcome to the Earth-Age Display

A journey through 4.600 million years of geological history

This is the starting-point of the Earth Age display.

Walk along this path for the next 40 minutes and read the story of the Earth's history. It begins with the birth of the planet, and how the Earth's history was shaped by geological forces over a period of 4.600 million years.

Geology in the nature of the Earth - the rocks and minerals which make it up, and the different processes which formed these rocks and minerals, and then changed them over the lengthy period of geological time.

Important geological events and milestones, also showing interesting facts that occurred during certain time periods, including the presence of early living organisms, the fossils and structures are highlighted.

Rock Displays

In the course of the walk you will see a variety of rock types, from the oldest to the youngest, and the different processes which formed these rocks and minerals, and then changed them over the lengthy period of geological time.

Betty's Bay: Earth Age Display and Rock Garden - Harold Porter Botanical Garden

- The OGG also holds regular online and ad hoc meetings, and field excursions for members and interested parties, with nominal membership fees of R250 per annum.
- Donations and sponsorship from interested parties are important to fund these larger projects.

The OGG is registered as a Non-Profit Organisation (Reg. No. 275-138 NPO).

Banking details: Bank: Standard Bank
Account Name: Overberg Geoscientists Group NPC
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Please advise your name and address with payment.

EXPERIENCE THE STORY BEHIND THE EXTRAORDINARY ROCKS ALONG THE HERMANUS CLIFF PATH

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OGG Brochure #4

OVERBERG GEOSCIENTISTS GROUP (OGG)

LOCATIONS

Mosselberg "wrinkles": Extreme deformation, forces of Nature (Cape Fold Belt).



Planar and cross-bedding: Indicators of sedimentary Deposition (Estuary, beach and shallow sea).



Cross-bedding or structural imbrication?
(Contradictions in the detail)

HERMANUS CLIFF PATH

Geology walk

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Highlights:

- Gearings Point: Picture the geological setting.
 - How old are these rocks and how did they form?
- Intriguing geological shapes in the rocks.
 - Sedimentary structures:
 - Planar and cross-bedding.
 - Pebble beds.
 - Deformation features:
 - Folds, faults and veins.
 - The "wrinkles" on Mosselberg.
- Shape of the coast line.
 - Why is it so steep?
 - Evidence of past sea levels.
- Evidence of early life:
 - Trace fossils.



Trace fossils: Evidence of early life (Worm trails?).