10.6 International Geodiversity Day 國際地質多樣性日

GEODIVERSITY OF HONG KONG UNESCO GLOBAL GEOPARK
香港聯合國教科文組織世界地質公園的地質多樣性

Alvin NG 吳善斌 (Geopark Officer 地質公園主任)

2022.9.28

unesco Global Geopark

HONG KONG GEOPARK 香港地質公園

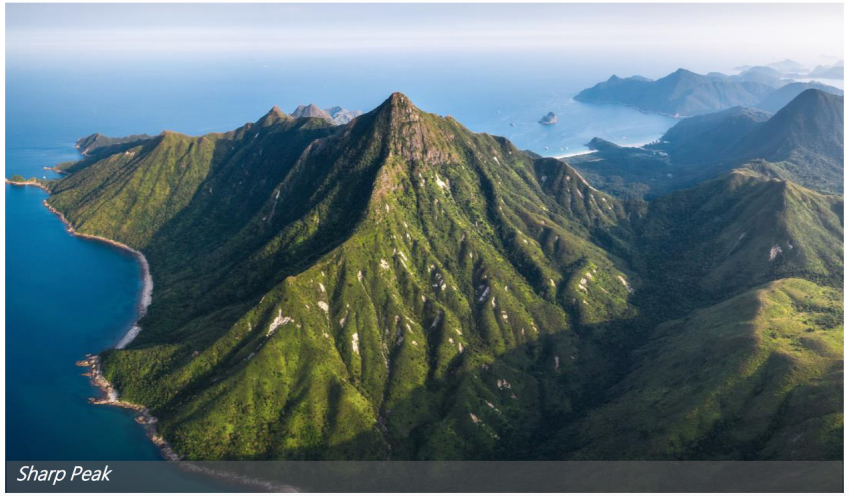
HONG KONG - A CONCRETE JUNGLE
香港 一個鋼筋水泥森林



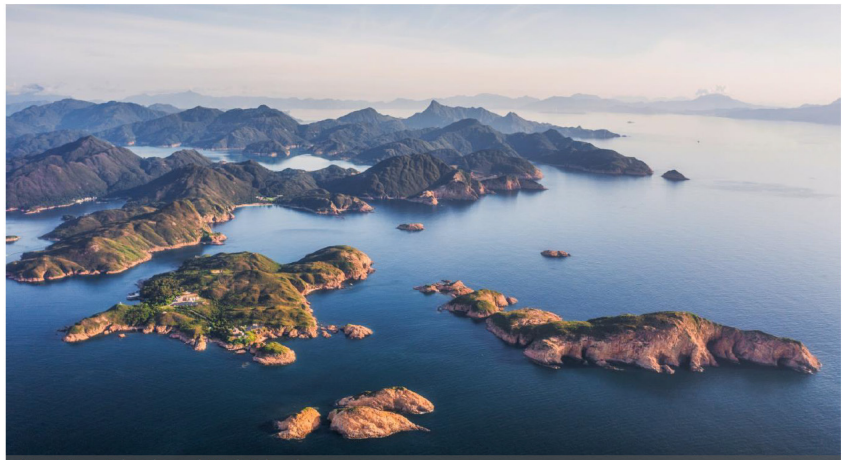
THIS IS HK
這是香港



THIS IS HK
這是香港



THIS IS HK
這是香港



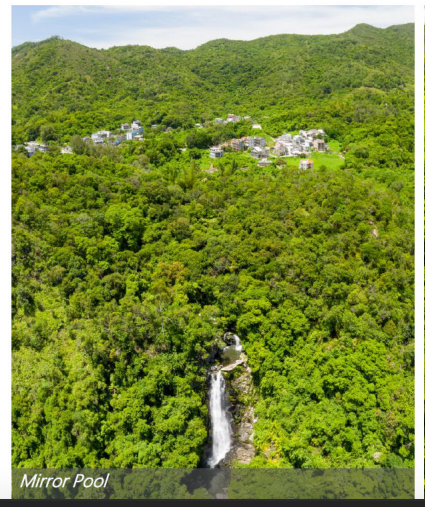
Ung Kong Islands and High Island

THIS IS HK
這是香港

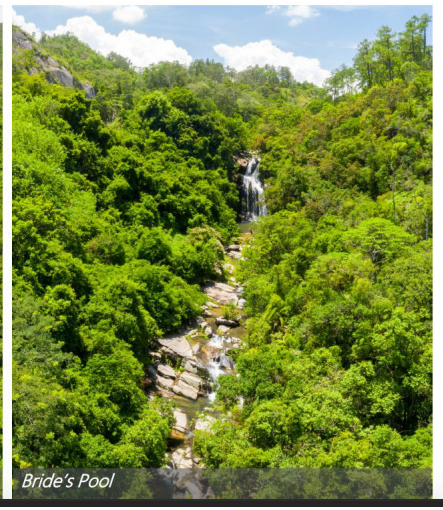


Double Haven

THIS IS HK
這是香港

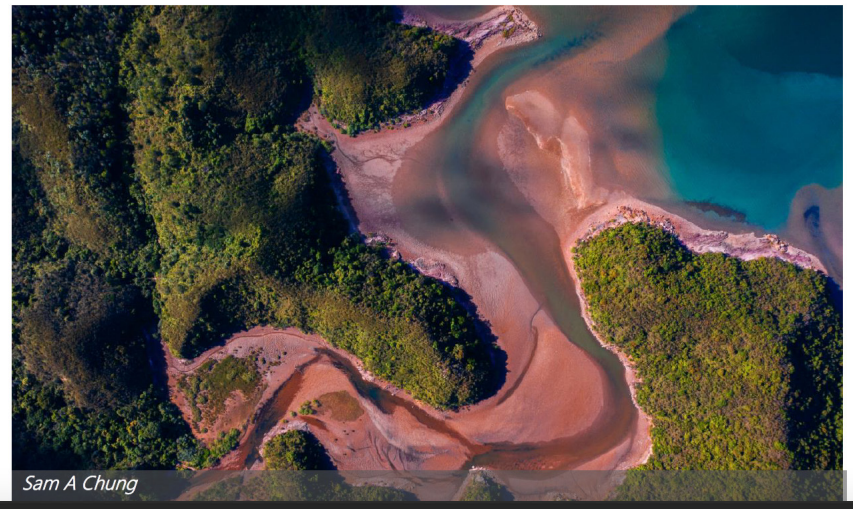


Mirror Pool



Bride's Pool

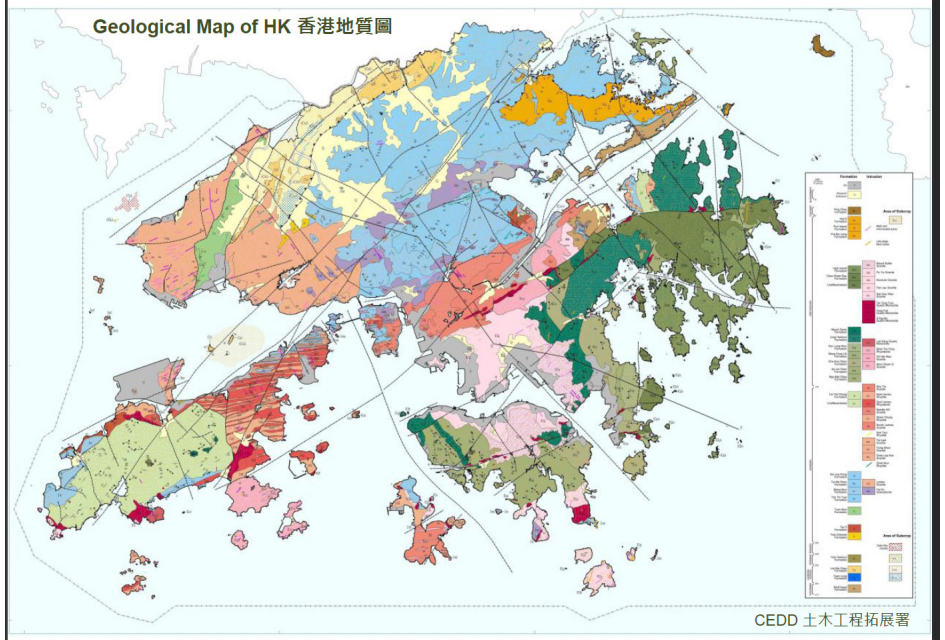
THIS IS HK
這是香港



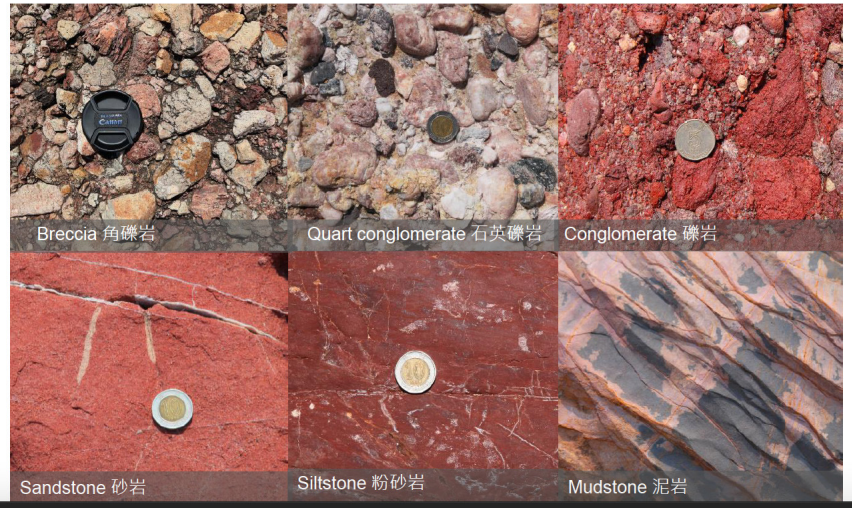
Sam A Chung

WHERE IS THE HONG KONG GEOPARK ?
香港地質公園在那裡 ?

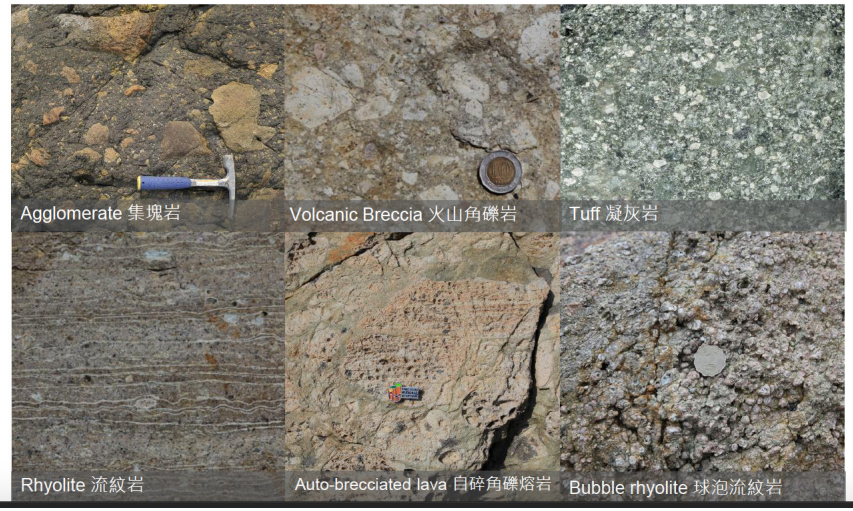




SEDIMENTARY ROCKS
沉積岩



VOLCANIC ROCKS
火山岩



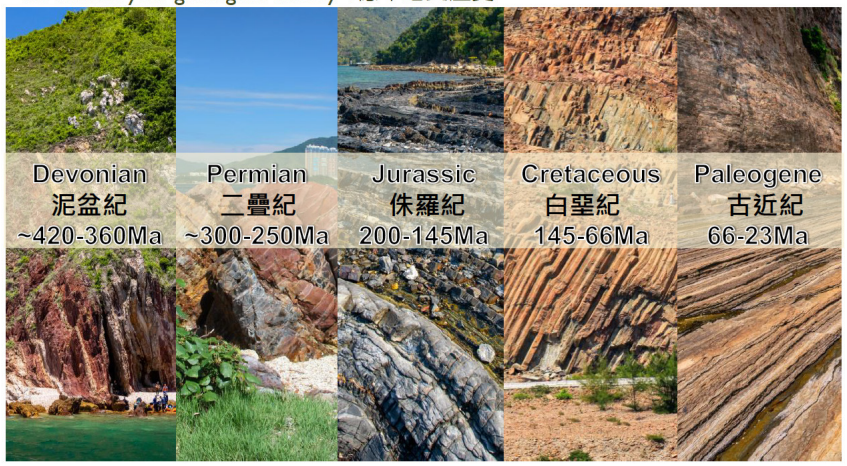
VOLCANIC SEDIMENTARY ROCKS & INTRUSIVE ROCKS
火山沉積岩與侵入岩


Volcanoclastic sedimentary rock 火山碎屑沉積岩


Quartz monzonite 石英二長岩

GEOLOGICAL HISTORY
地質歷史

400-million-year geological history 4億年地質歷史



NORTHEAST SEDIMENTARY ROCK REGION BLUFF HEAD
新界東北沉積岩園區 黃竹角咀

The oldest rock outcrops of Devonian period in Hong Kong
香港最古老的泥盆紀岩層剖面



NORTHEAST SEDIMENTARY ROCK REGION BLUFF HEAD
新界東北沉積岩園區 黃竹角咀

Whitish quartz sandstone, quartz-pebble conglomerate and quartzite VS reddish purple siltstone,
白色石英砂岩、石英礫岩與紫紅色粉砂岩互層



NORTHEAST SEDIMENTARY ROCK REGION BLUFF HEAD
新界東北沉積岩園區 黃竹角咀



Syncline 向斜



Anticline 背斜

NORTHEAST SEDIMENTARY ROCK REGION MA SHI CHAU
新界東北沉積岩園區 馬屎洲

The 2nd oldest rock outcrops of Permian Period in Hong Kong
香港第二古老的二疊紀岩層露頭

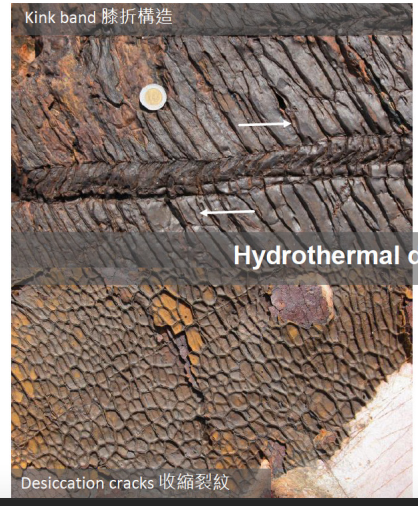


NORTHEAST SEDIMENTARY ROCK REGION MA SHI CHAU
新界東北沉積岩園區 馬屎洲

Colourful mudstone, siltstone, sandstone and conglomerate
色彩斑斕的泥岩、粉砂岩、砂岩和礫岩



NORTHEAST SEDIMENTARY ROCK REGION MA SHI CHAU
新界東北沉積岩園區 馬屎洲



Kink band 膝折構造

Desiccation cracks 收縮裂紋

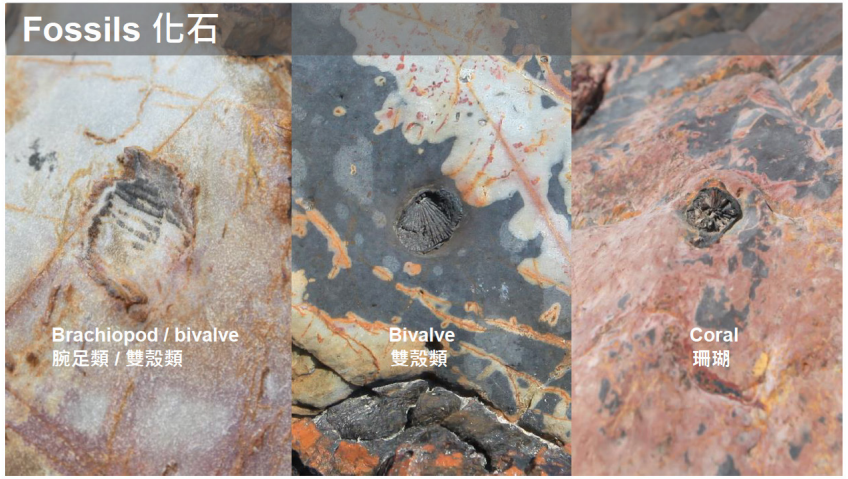


Traces of hydrothermal fluid flow 熱液流動的痕跡

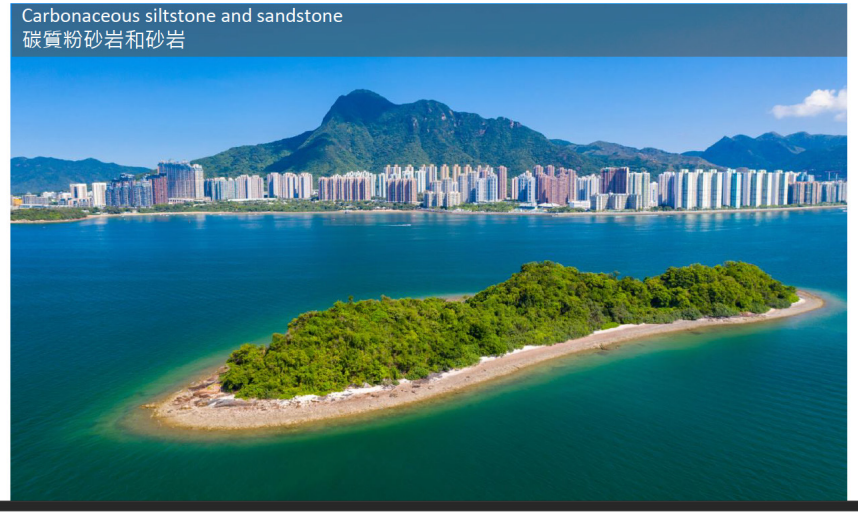
Quartz vein 石英脈

Hydrothermal deposits 熱液沉積

NORTHEAST SEDIMENTARY ROCK REGION MA SHI CHAU
新界東北沉積岩園區 馬屎洲



NORTHEAST SEDIMENTARY ROCK REGION CENTRE ISLAND
新界東北沉積岩園區 丫洲



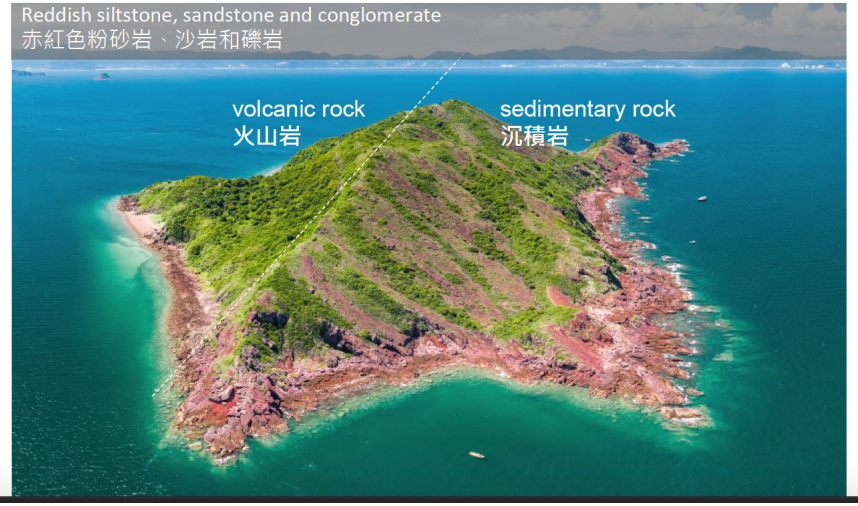
NORTHEAST SEDIMENTARY ROCK REGION CENTRE ISLAND
新界東北沉積岩園區 丫洲







NORTHEAST SEDIMENTARY ROCK REGION PORT ISLAND
新界東北沉積岩園區 赤洲



NORTHEAST SEDIMENTARY ROCK REGION PORT ISLAND
新界東北沉積岩園區 赤洲



NORTHEAST SEDIMENTARY ROCK REGION PORT ISLAND
新界東北沉積岩園區 赤洲



NORTHEAST SEDIMENTARY ROCK REGION TUNG PING CHAU
新界東北沉積岩園區 東平洲

The youngest rock formation of Hong Kong of ~55 Mys
香港最年輕的地層 ~ 5500萬年歷史





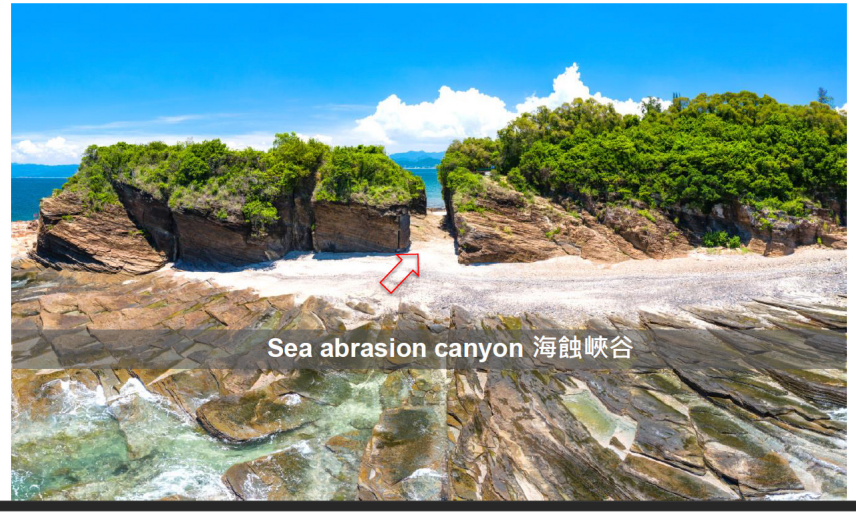
NORTHEAST SEDIMENTARY ROCK REGION TUNG PING CHAU
新界東北沉積岩園區 東平洲



NORTHEAST SEDIMENTARY ROCK REGION TUNG PING CHAU
新界東北沉積岩園區 東平洲



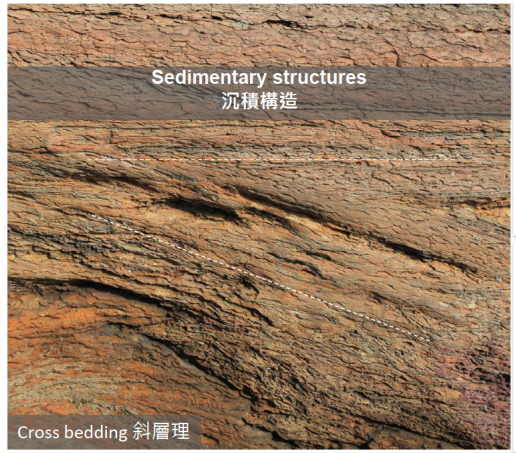
NORTHEAST SEDIMENTARY ROCK REGION TUNG PING CHAU
新界東北沉積岩園區 東平洲



NORTHEAST SEDIMENTARY ROCK REGION TUNG PING CHAU
新界東北沉積岩園區 東平洲



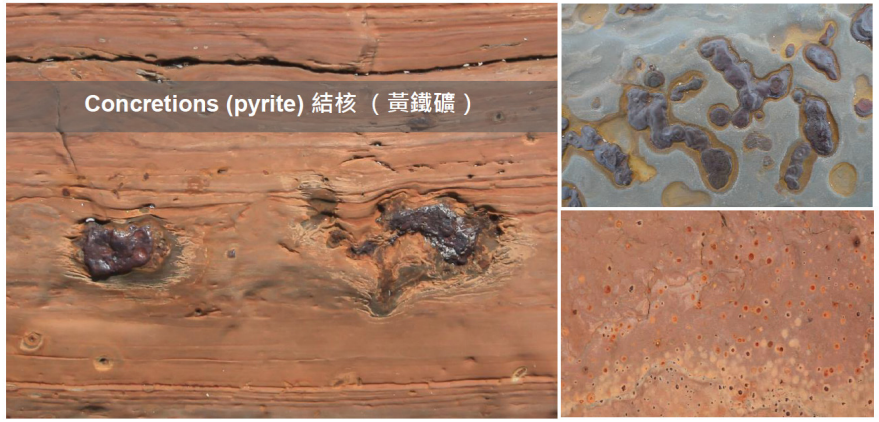
NORTHEAST SEDIMENTARY ROCK REGION TUNG PING CHAU
新界東北沉積岩園區 東平洲







NORTHEAST SEDIMENTARY ROCK REGION TUNG PING CHAU
新界東北沉積岩園區 東平洲



NORTHEAST SEDIMENTARY ROCK REGION TUNG PING CHAU
新界東北沉積岩園區 東平洲



NORTHEAST SEDIMENTARY ROCK REGION AP CHAU
新界東北沉積岩園區 鴨洲



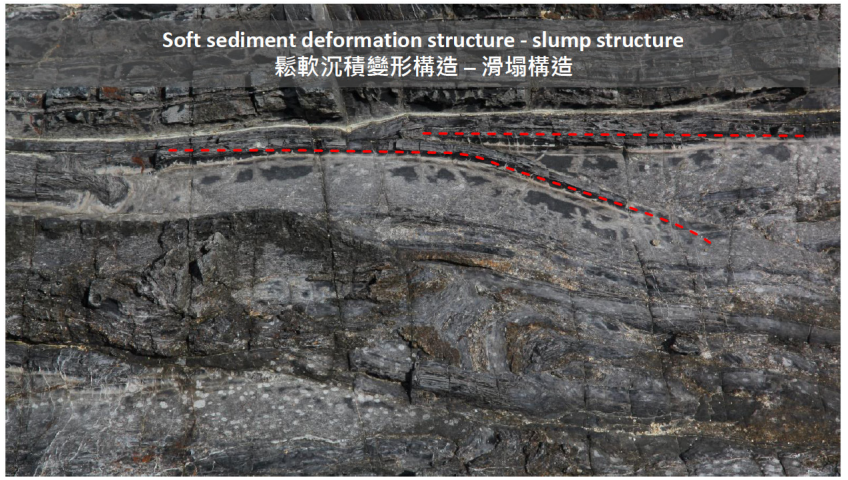
NORTHEAST SEDIMENTARY ROCK REGION AP CHAU
新界東北沉積岩園區 鴨洲



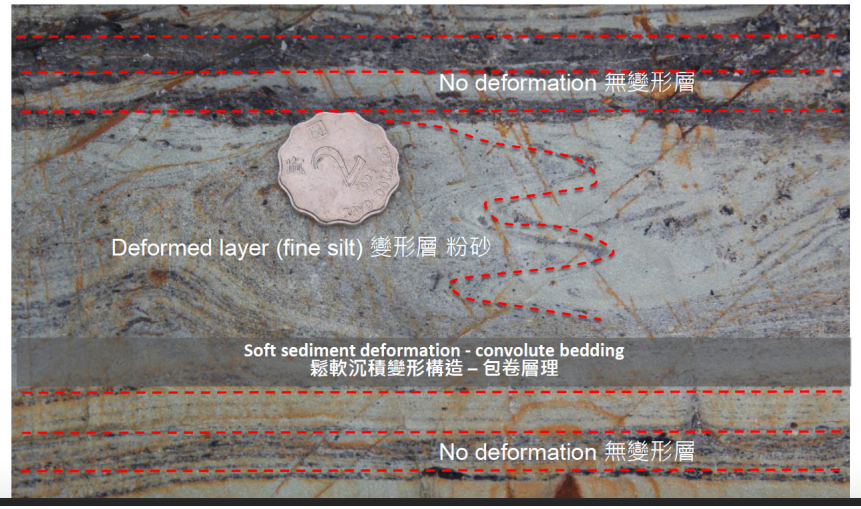
NORTHEAST SEDIMENTARY ROCK REGION LAI CHI CHONG
新界東北沉積岩園區 荔枝莊



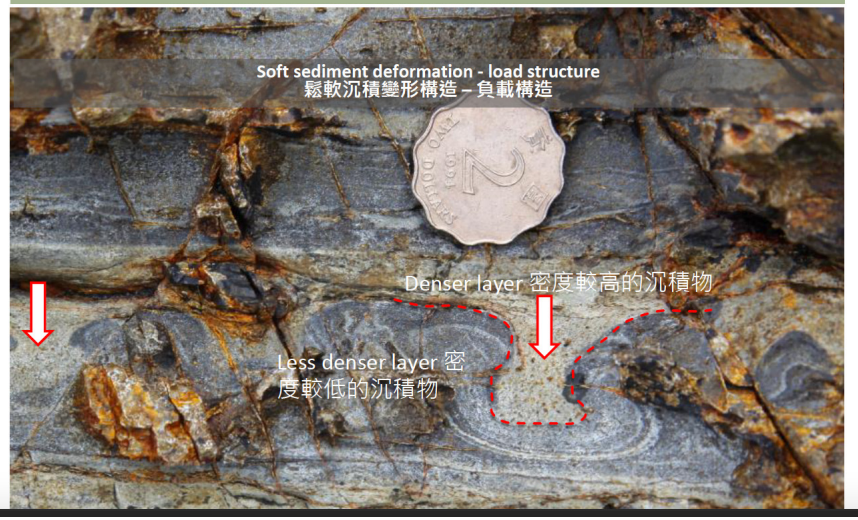
NORTHEAST SEDIMENTARY ROCK REGION LAI CHI CHONG
新界東北沉積岩園區 荔枝莊



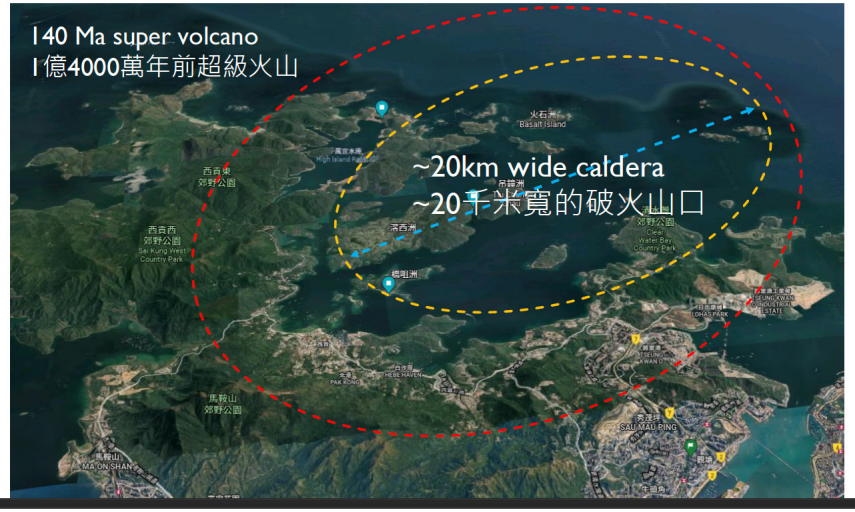
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新界東北沉積岩園區 L荔枝莊



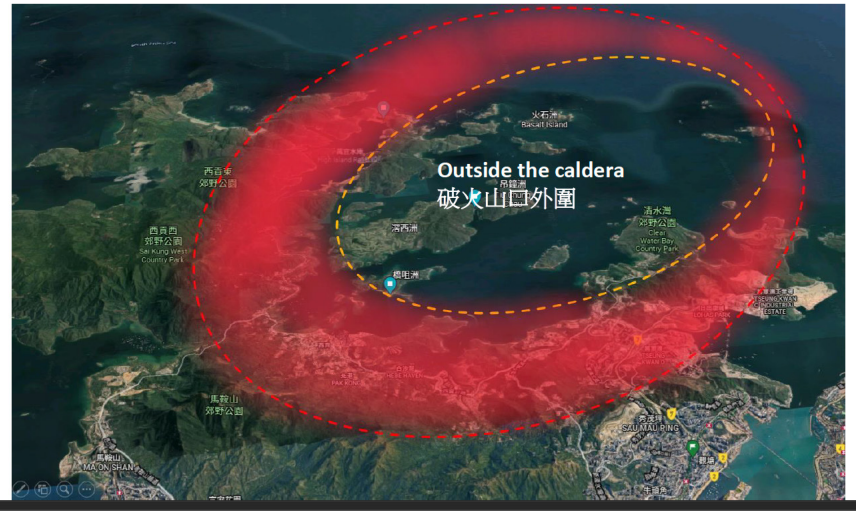
NORTHEAST SEDIMENTARY ROCK REGION LAI CHI CHONG
新界東北沉積岩園區 L荔枝莊



SAI KUNG VOLCANIC ROCK REGION RELICS OF A SUPER VOLCANO
西貢火山岩園區 超級火山遺跡



SAI KUNG VOLCANIC ROCK REGION RELICS OF A SUPER VOLCANO
西貢火山岩園區 超級火山遺跡

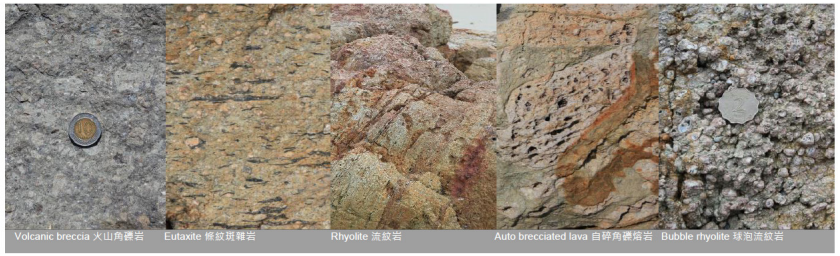


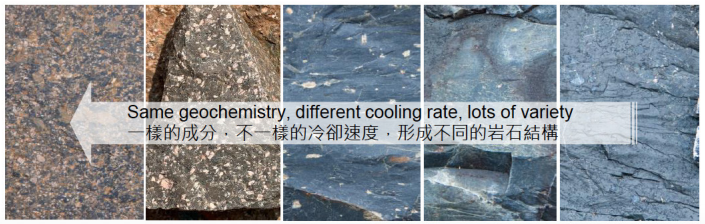
SAI KUNG VOLCANIC ROCK REGION RELICS OF A SUPER VOLCANO
西貢火山岩園區 超級火山遺跡

Huge volcanic blocks 巨大的火山巨礫 (tens of meters each 每塊直徑達數十米)

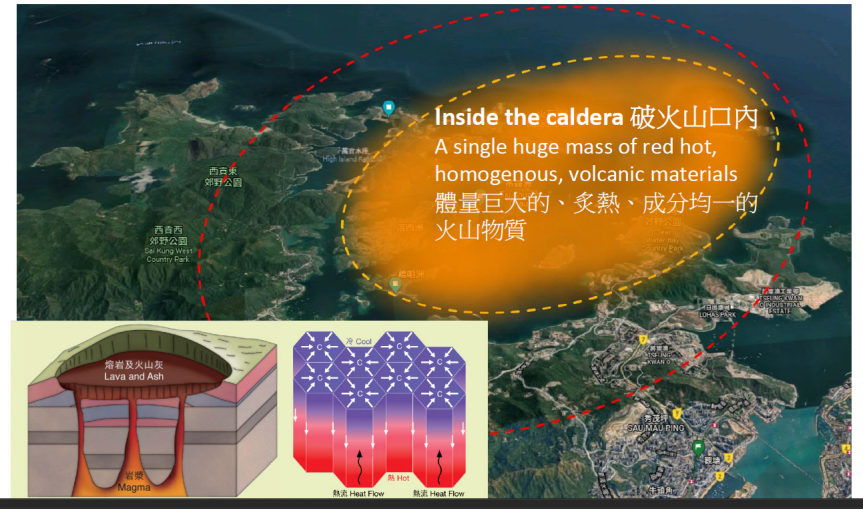


SAI KUNG VOLCANIC ROCK REGION VOLCANIC ROCKS
西貢火山岩園區 火山岩





SAI KUNG VOLCANIC ROCK REGION RELICS OF A SUPER VOLCANO
西貢火山岩園區 超級火山遺跡



SAI KUNG VOLCANIC ROCK REGION COLUMNAR ROCK FORMATION
西貢火山岩園區 岩柱群



SAI KUNG VOLCANIC ROCK REGION COLUMNAR ROCK FORMATION
西貢火山岩園區 岩柱群



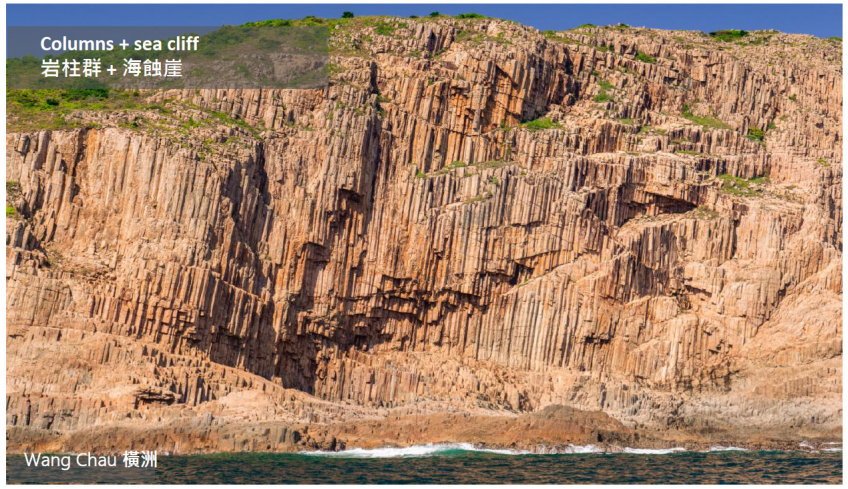
SAI KUNG VOLCANIC ROCK REGION COLUMNAR ROCK FORMATION
西貢火山岩園區 岩柱群



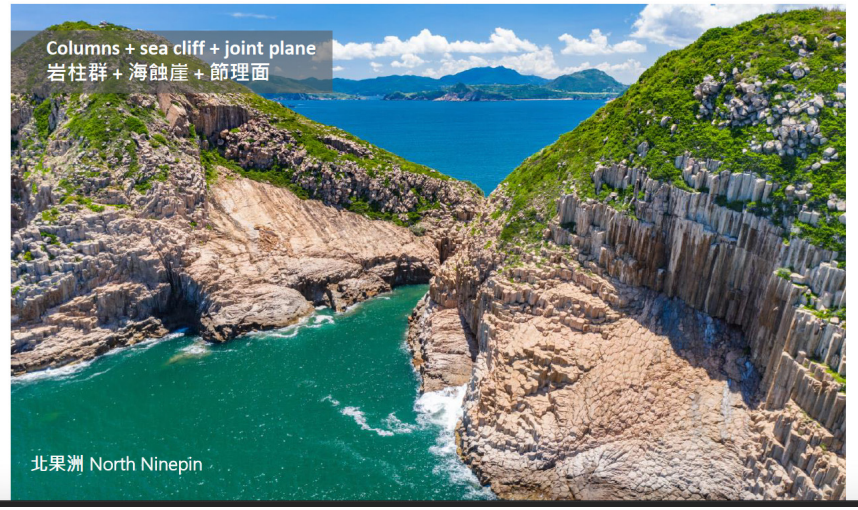
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西貢火山岩園區 岩柱群



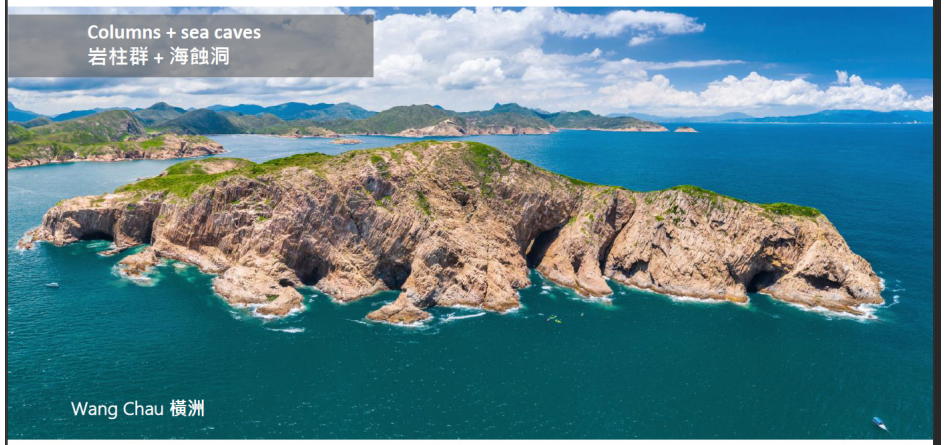
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西貢火山岩園區 岩柱群



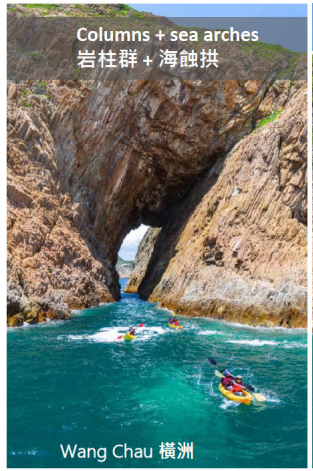
SAI KUNG VOLCANIC ROCK REGION COLUMNAR ROCK FORMATION
西貢火山岩園區 岩柱群



SAI KUNG VOLCANIC ROCK REGION COLUMNAR ROCK FORMATION
西貢火山岩園區 岩柱群



SAI KUNG VOLCANIC ROCK REGION COLUMNAR ROCK FORMATION
西貢火山岩園區 岩柱群

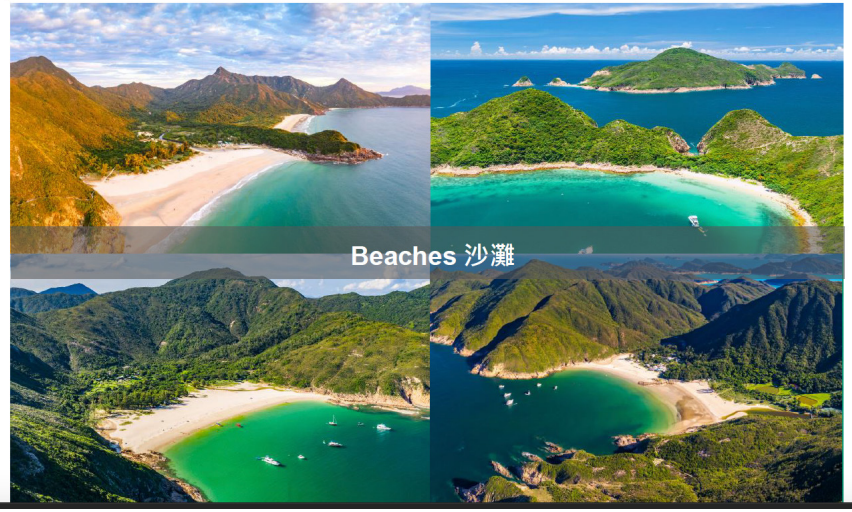




SAI KUNG VOLCANIC ROCK REGION COLUMNAR ROCK FORMATION
西貢火山岩園區 岩柱群



DEPOSITIONAL LANDFORMS
沉積地貌



DEPOSITIONAL LANDFORMS
沉積地貌









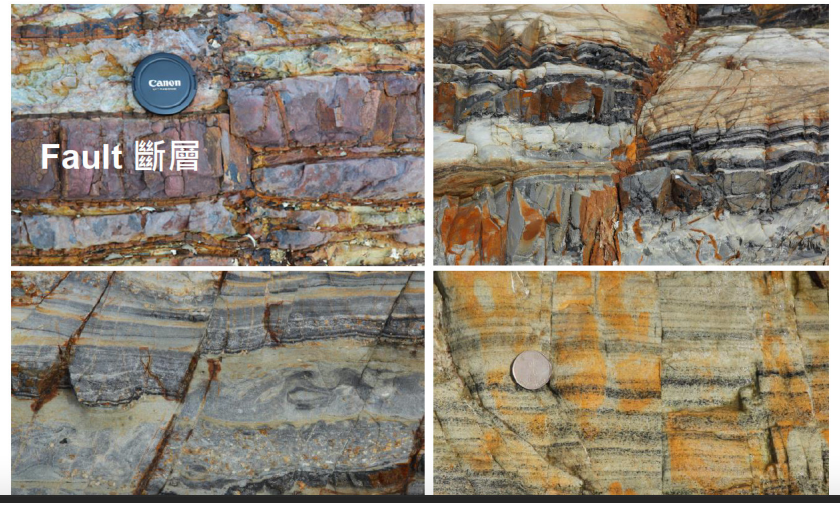
DEPOSITIONAL LANDFORMS
沉積地貌



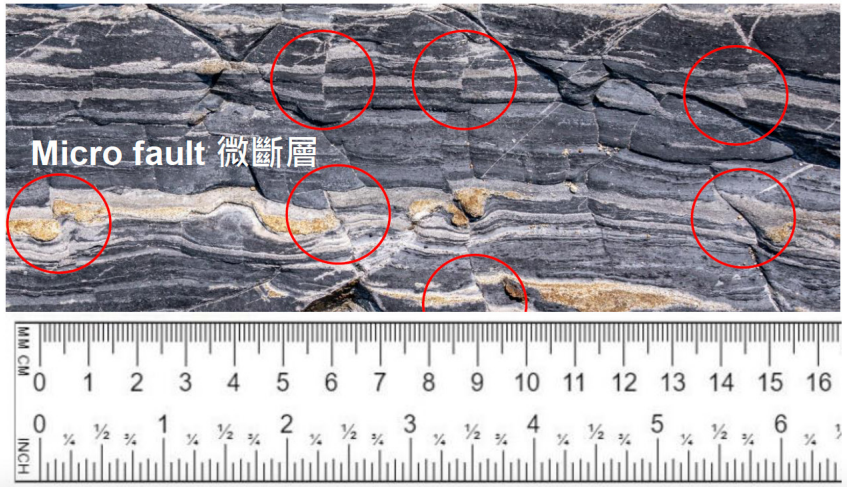
GEOLOGICAL STRUCTURES
地質構造



GEOLOGICAL STRUCTURES
地質構造



GEOLOGICAL STRUCTURES
地質構造

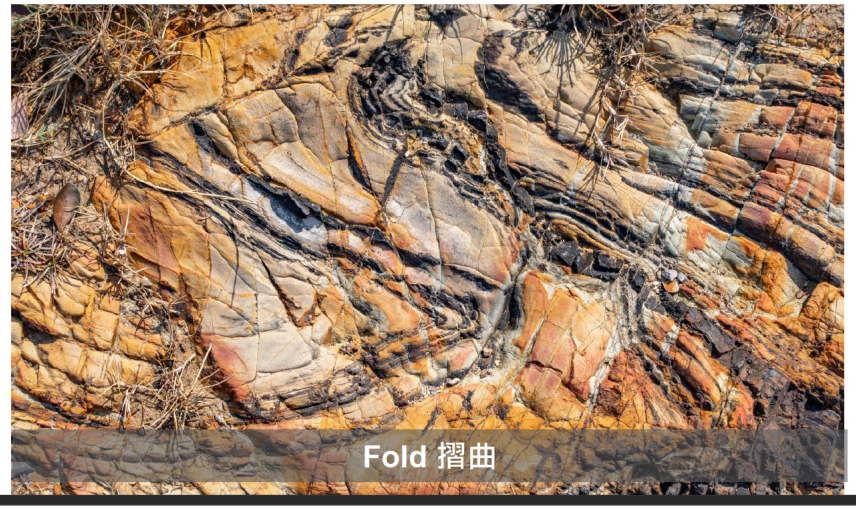


GEOLOGICAL STURCTURES
地質構造



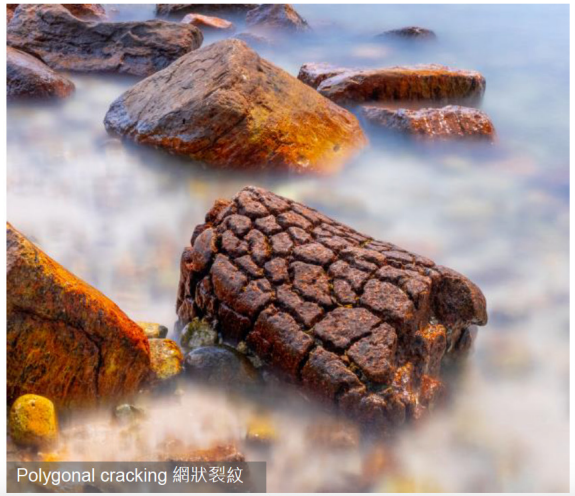
Fold 摺曲

GEOLOGICAL STRUCTURES
地質構造



Fold 摺曲

WEATHERING & EROSION PATTERN
風化侵蝕特徵



Polygonal cracking 網狀裂紋



Exfoliation 頁狀剝落



Honeycomb weathering 蜂巢狀侵蝕

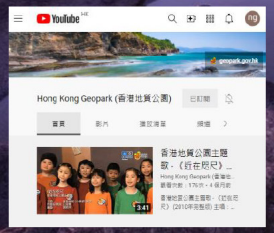
GEODIVERSITY, BIODIVERSITY AND CULTURAL HERITAGE
地質多樣性、生物多樣性與我們的文化遺產



CONCLUSION 總結



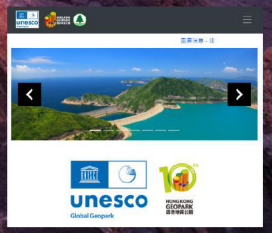
Thank You 謝謝！



Hong Kong Geopark



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