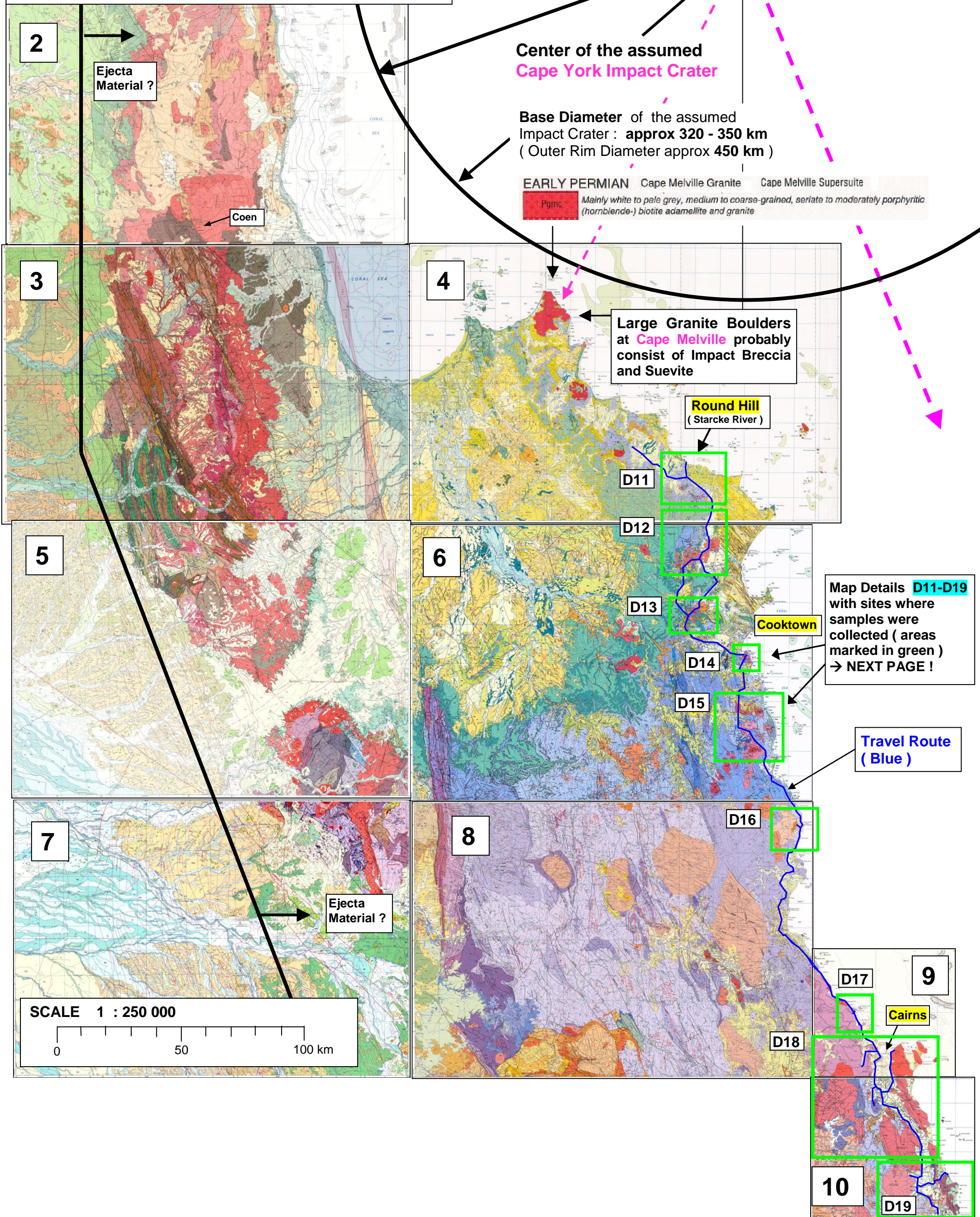


→ **2nd trip** to Cape York & Cooktown area (including samples from Gold Coast & Byron Bay) :

Geological Map (Cape York & Cooktown area)
with locations where rock samples were collected

→ **Combination of 10 geological maps** showing the Cape York Peninsula (north-east coast of Australia)



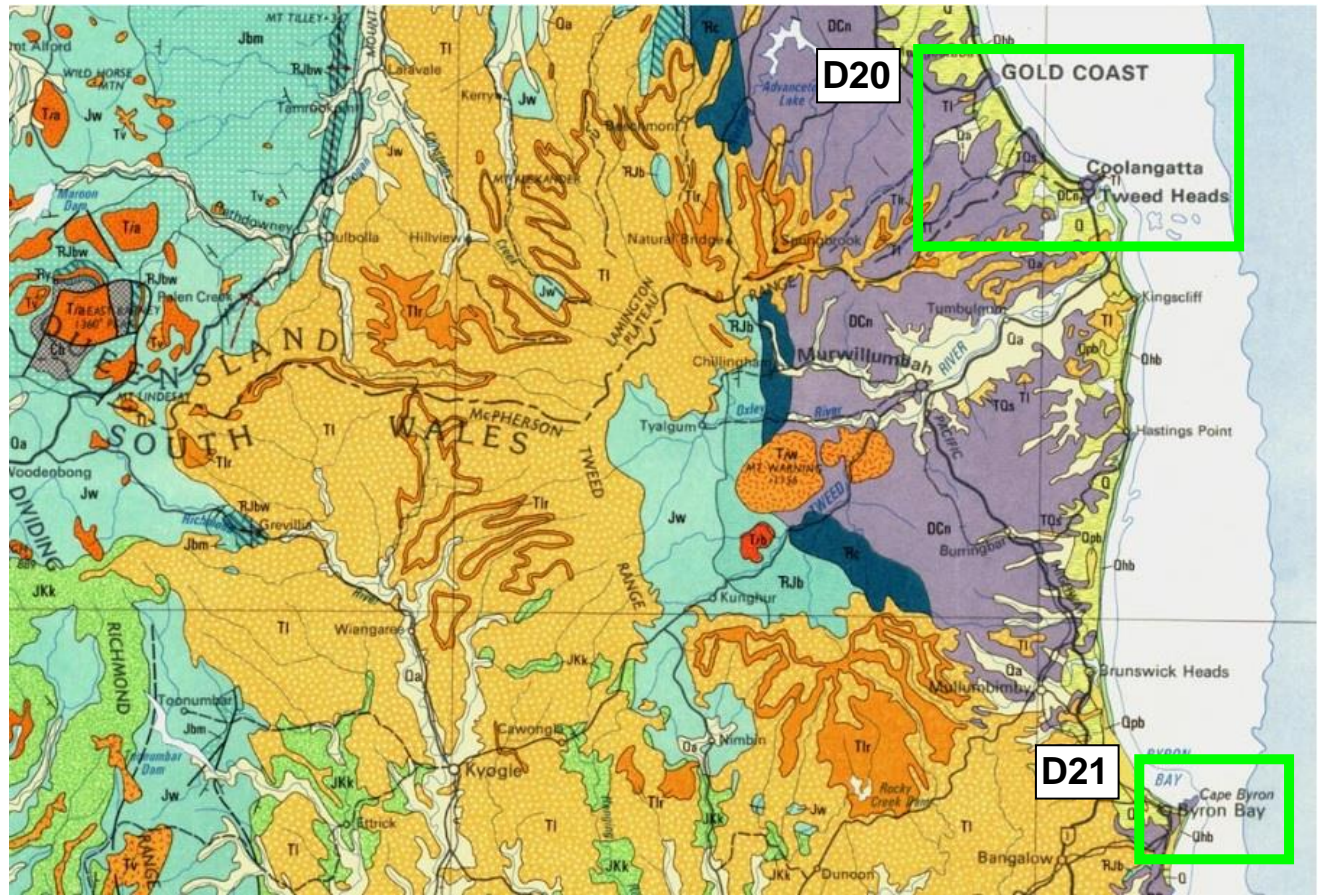
Geological Map :

Gold Coast & Byron Bay area

(Moreton Geology)

→ ~ 2000 km south of Cape York

→ with map Details D20 & D21



Details D11 - D21 from Map Combination-2 & Map "Moreton Geology" (Brisbane area) with sites (locations) where rock samples were collected :

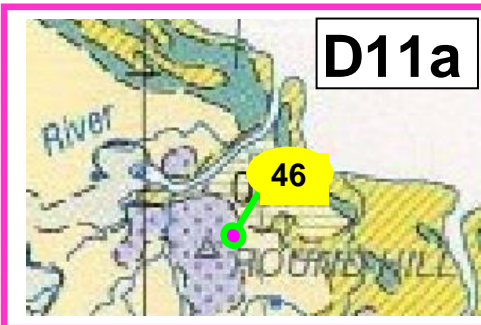
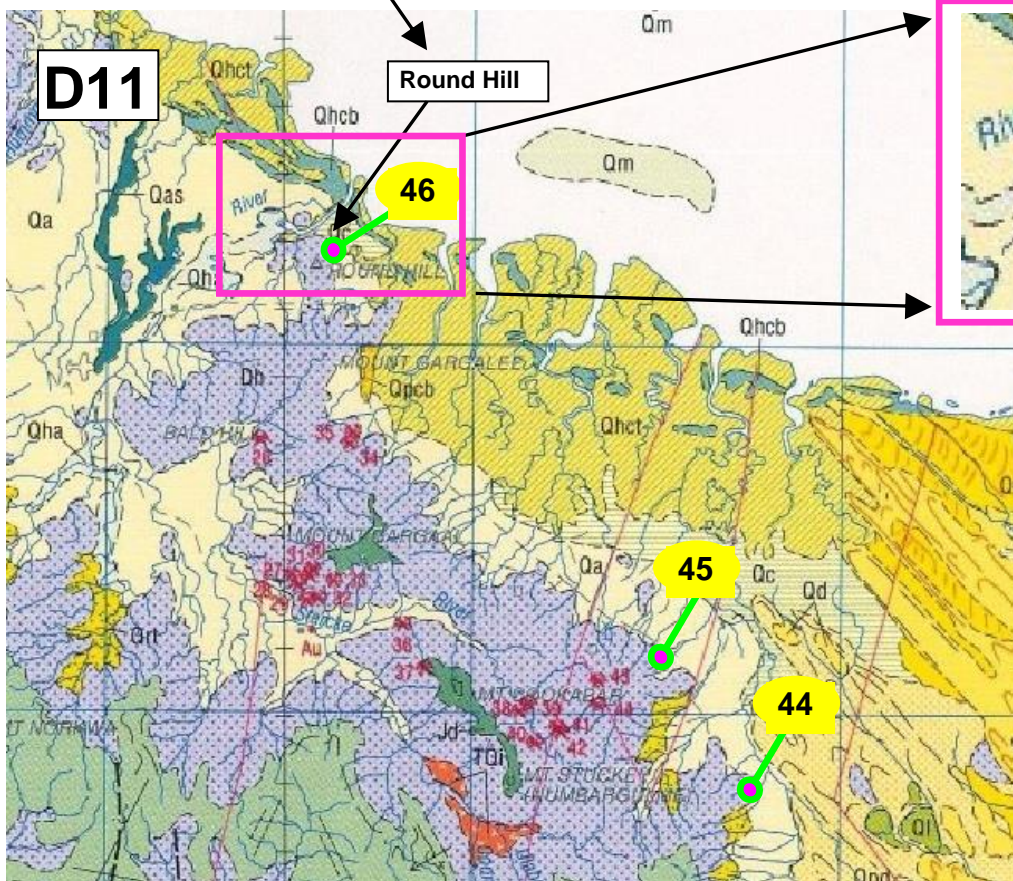
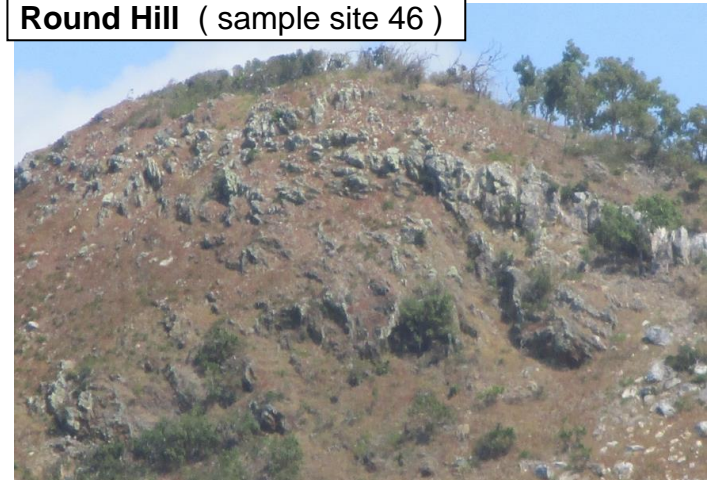
→ Weblinks zu den Geologischen Karten 1 bis 10 : [weblink to : www.geoscience.gov.au/...](http://www.geoscience.gov.au/)

Round Hill represents a hill consisting of Silurian-/Devonian-age rock material which is > 400 million years old and was directly effected by impact shock waves of the **CYC**. Therefore it should contain proof of the Impact.

Hodgkinson Formation
LATE SILURIAN? TO EARLY DEVONIAN?

Dh Undivided greywacke, meta-greywacke, mudstone, siltstone, chert, metabasalt, phyllitic mudstone,

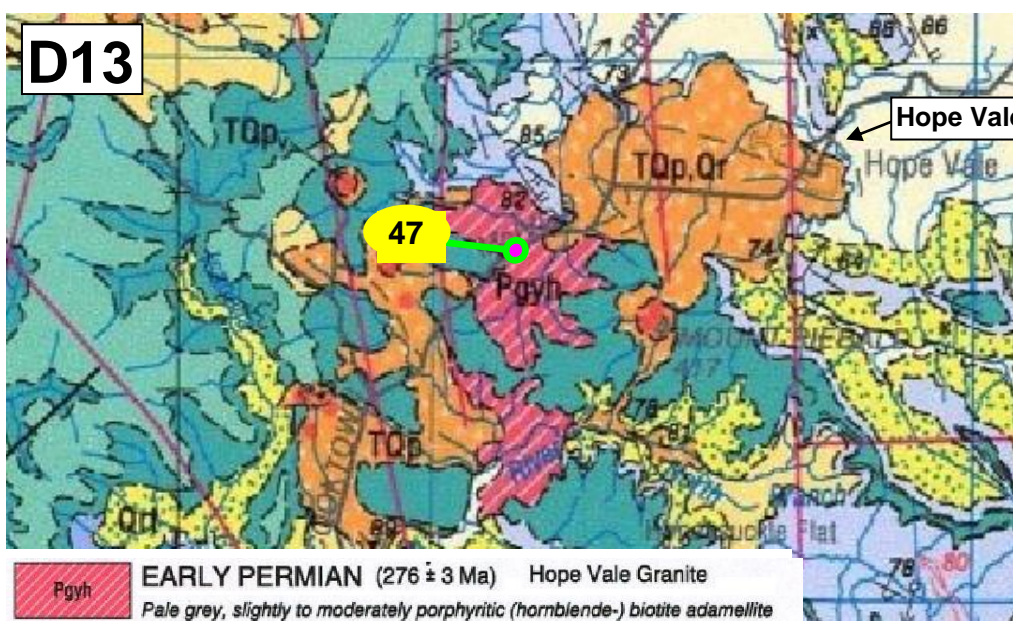
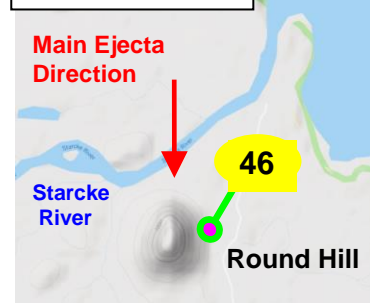
Round Hill (sample site 46)



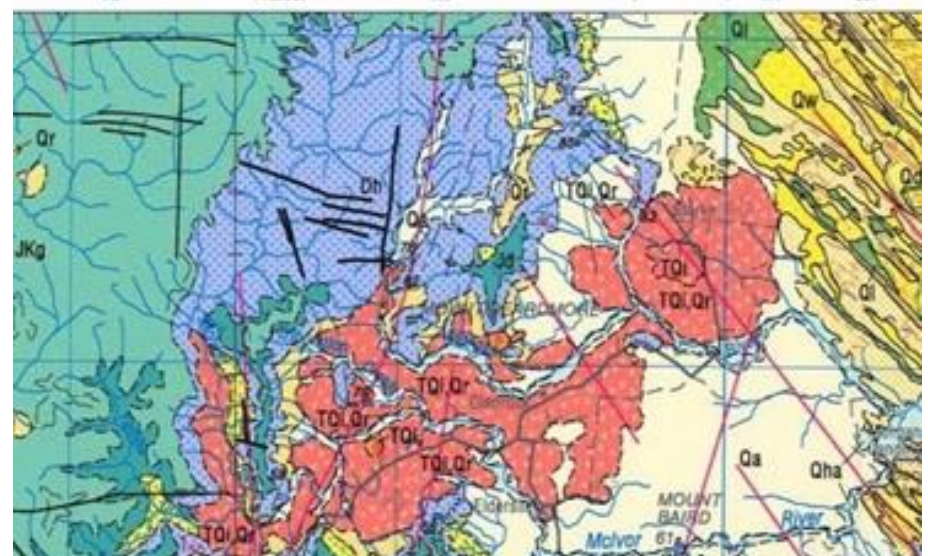
Round Hill - Detail

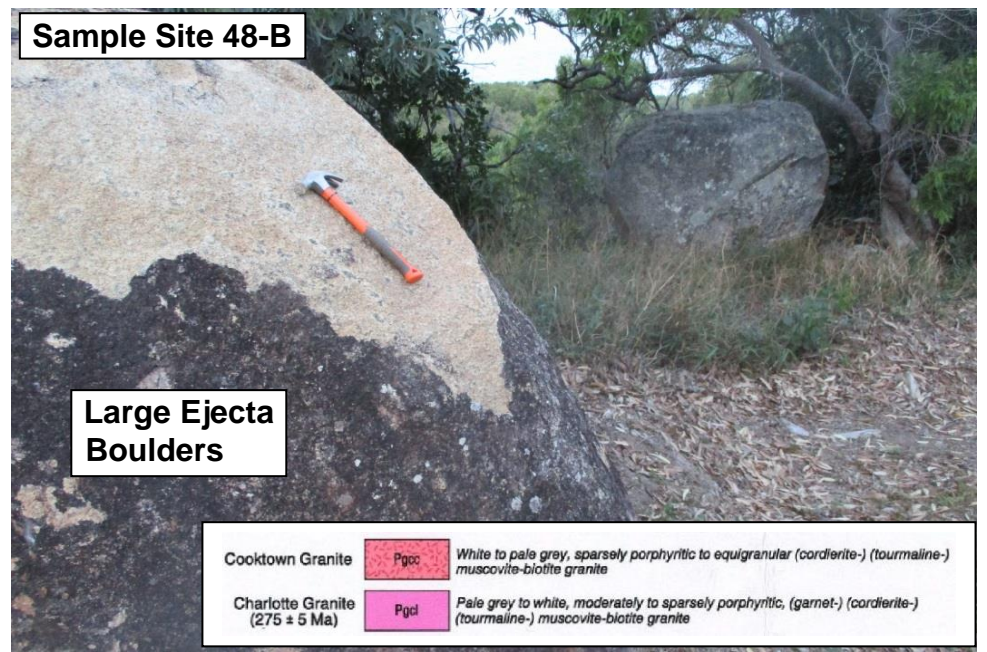
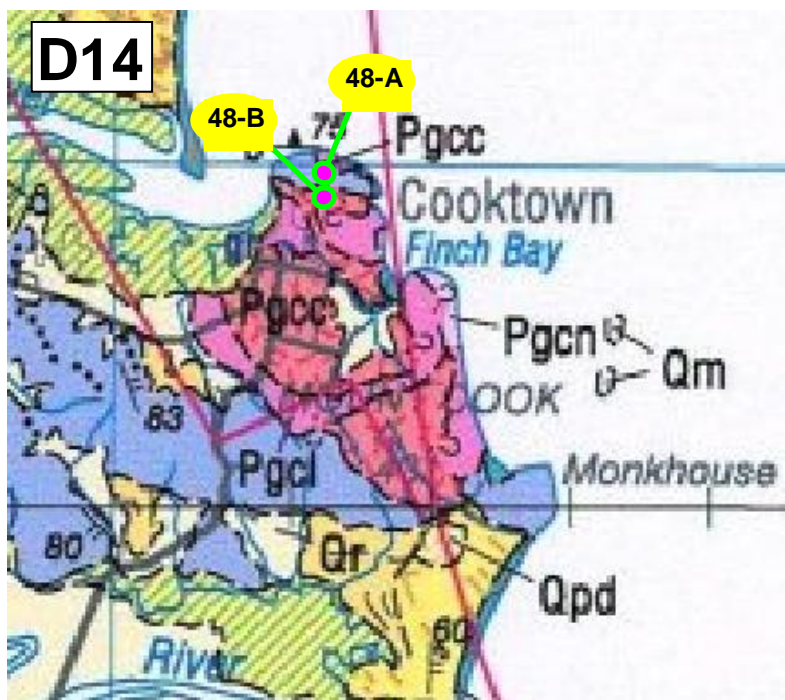


"Round Hill" – Height ~150 m
Topographic Map

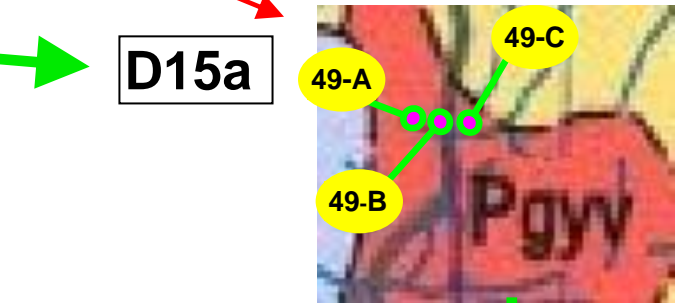
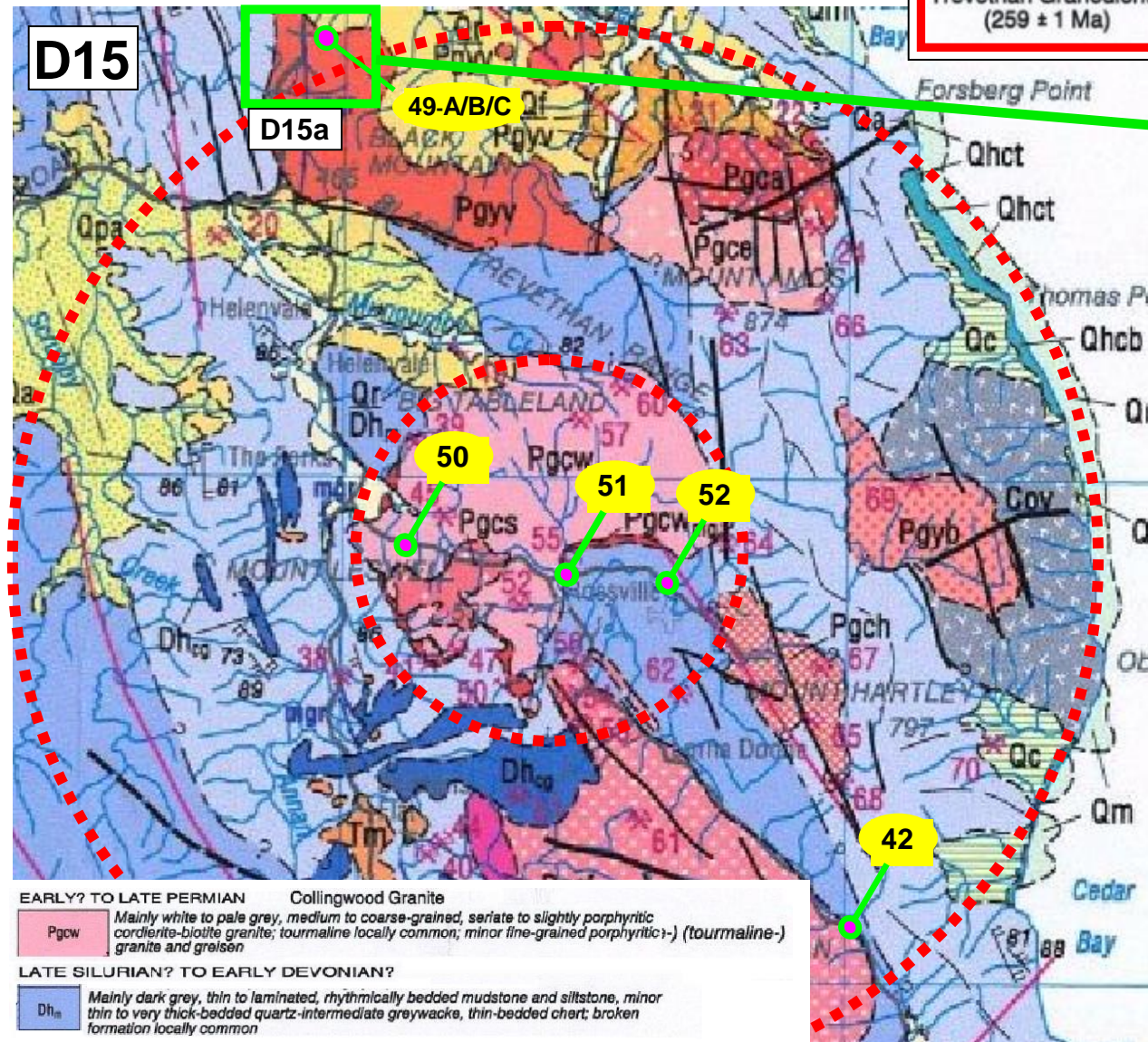


Pgyh EARLY PERMIAN (276 ± 3 Ma) Hope Vale Granite
Pale grey, slightly to moderately porphyritic (hornblende-) biotite adamellite

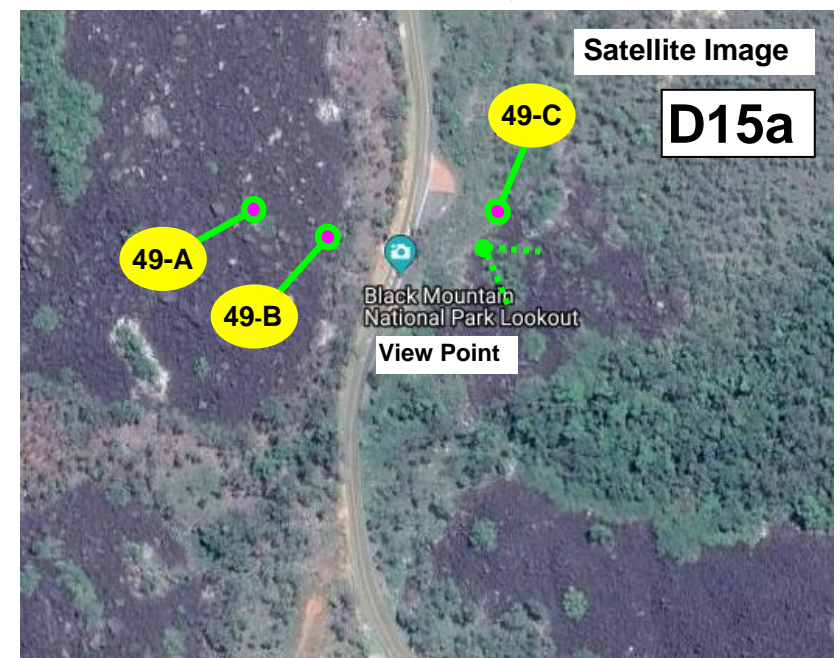




Note the P/T- age of the boulders !!



Black Mountains "Ejecta-Boulder-Mountains"



Sample Site 50 : landscape full of Ejecta Boulders



Note the surface of this boulder It has the appearance as it was exposed to an explosive and high-temperature „Blast-Event“

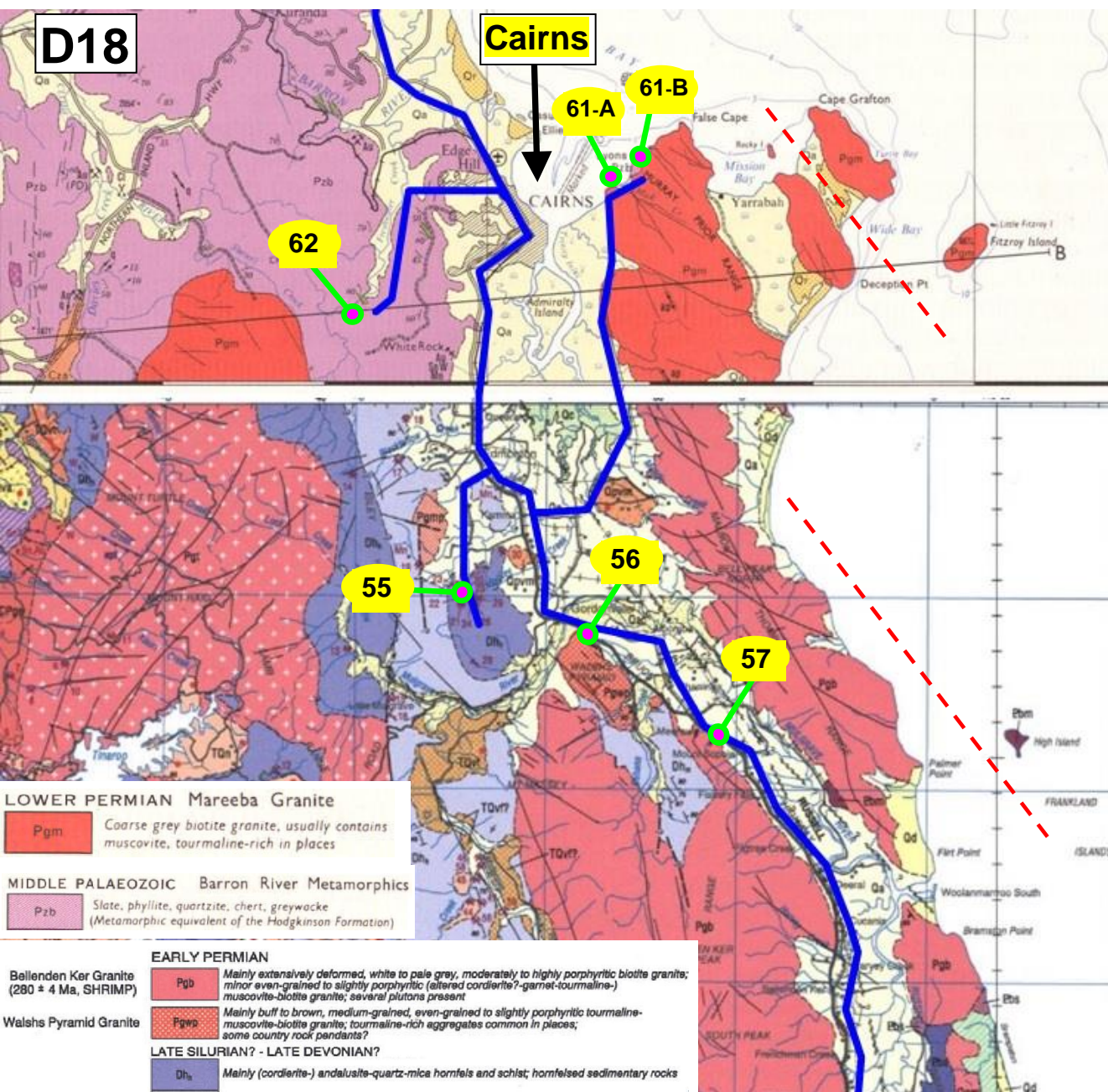
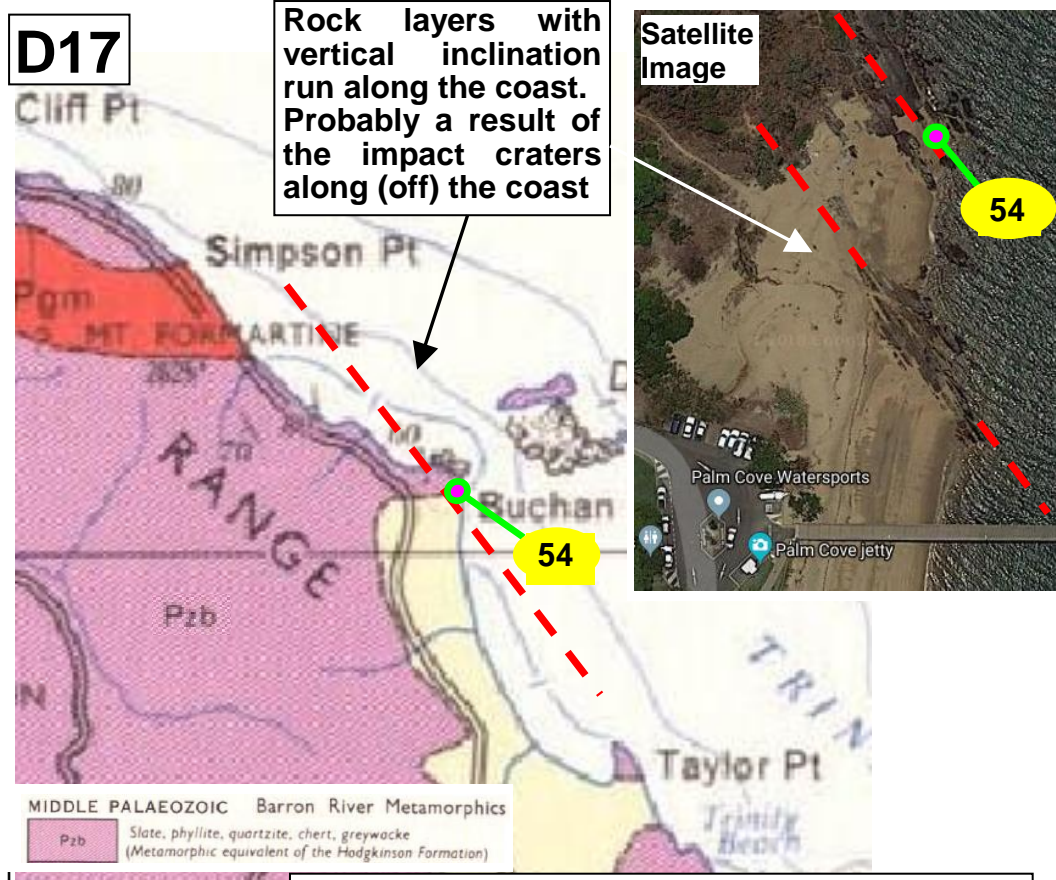
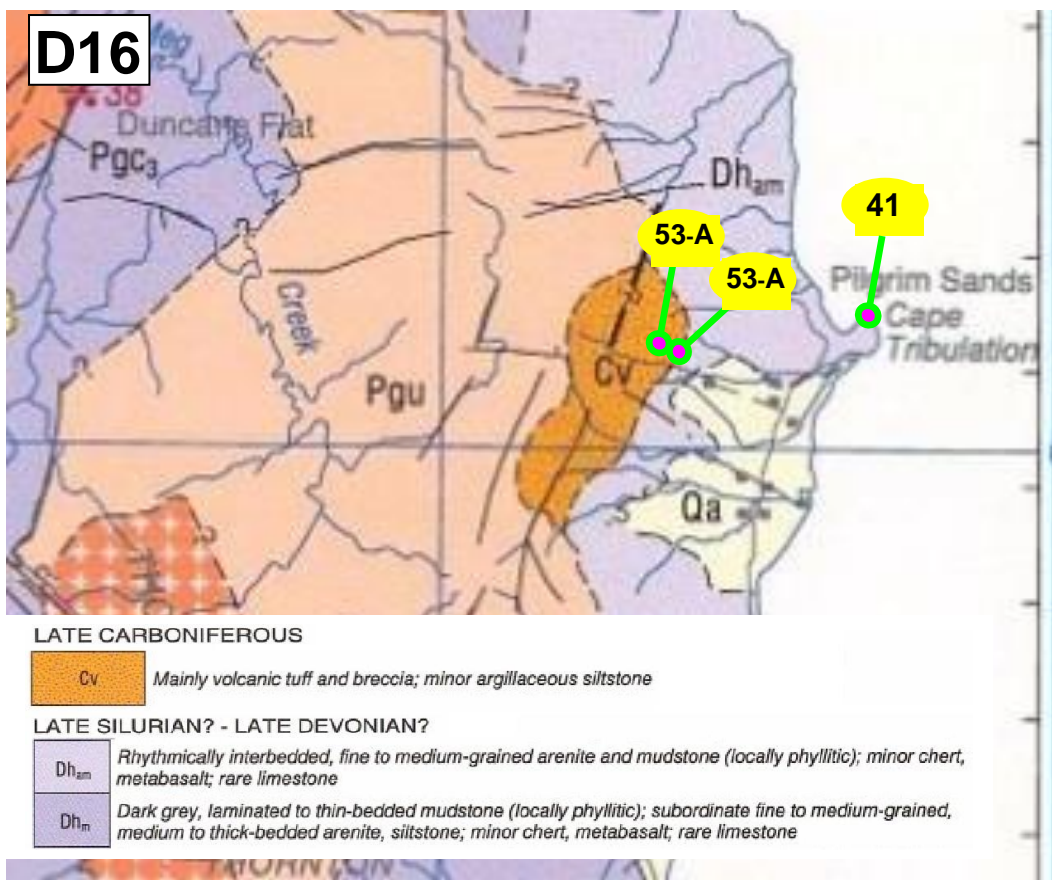


Sample Site 49-C : Ejecta Boulders of the CY-Event



Sample Site 49-C : Mountain consisting of Ejecta-Boulders





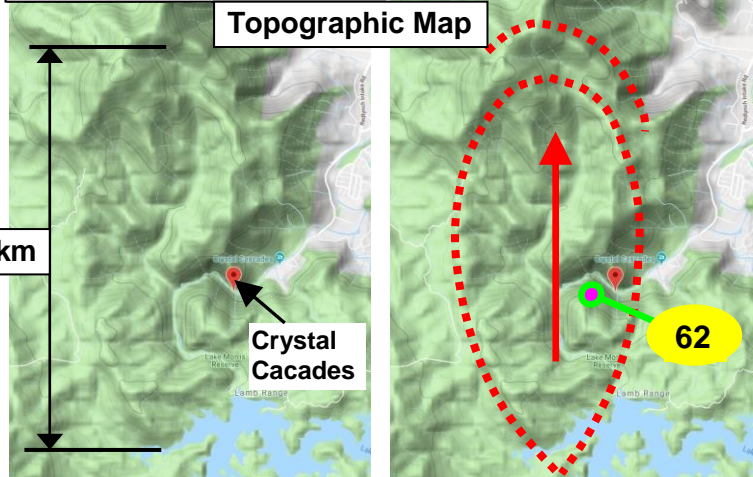
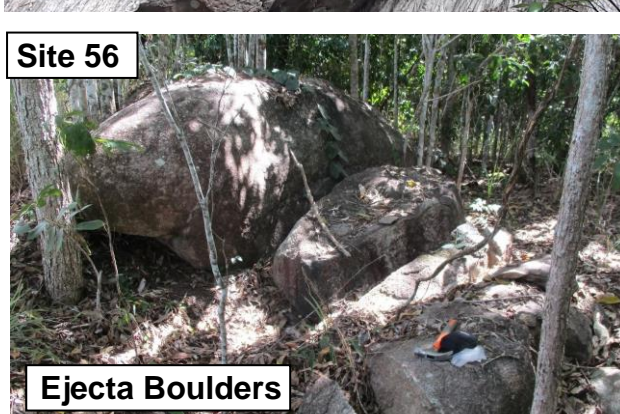
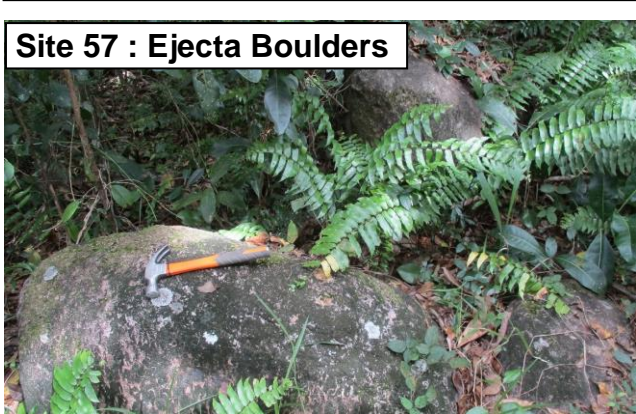
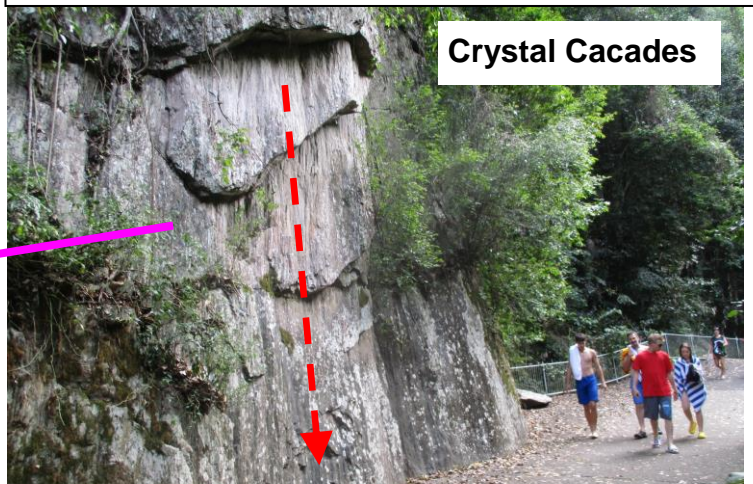
Site 54 : Note vertical inclination of rock layers

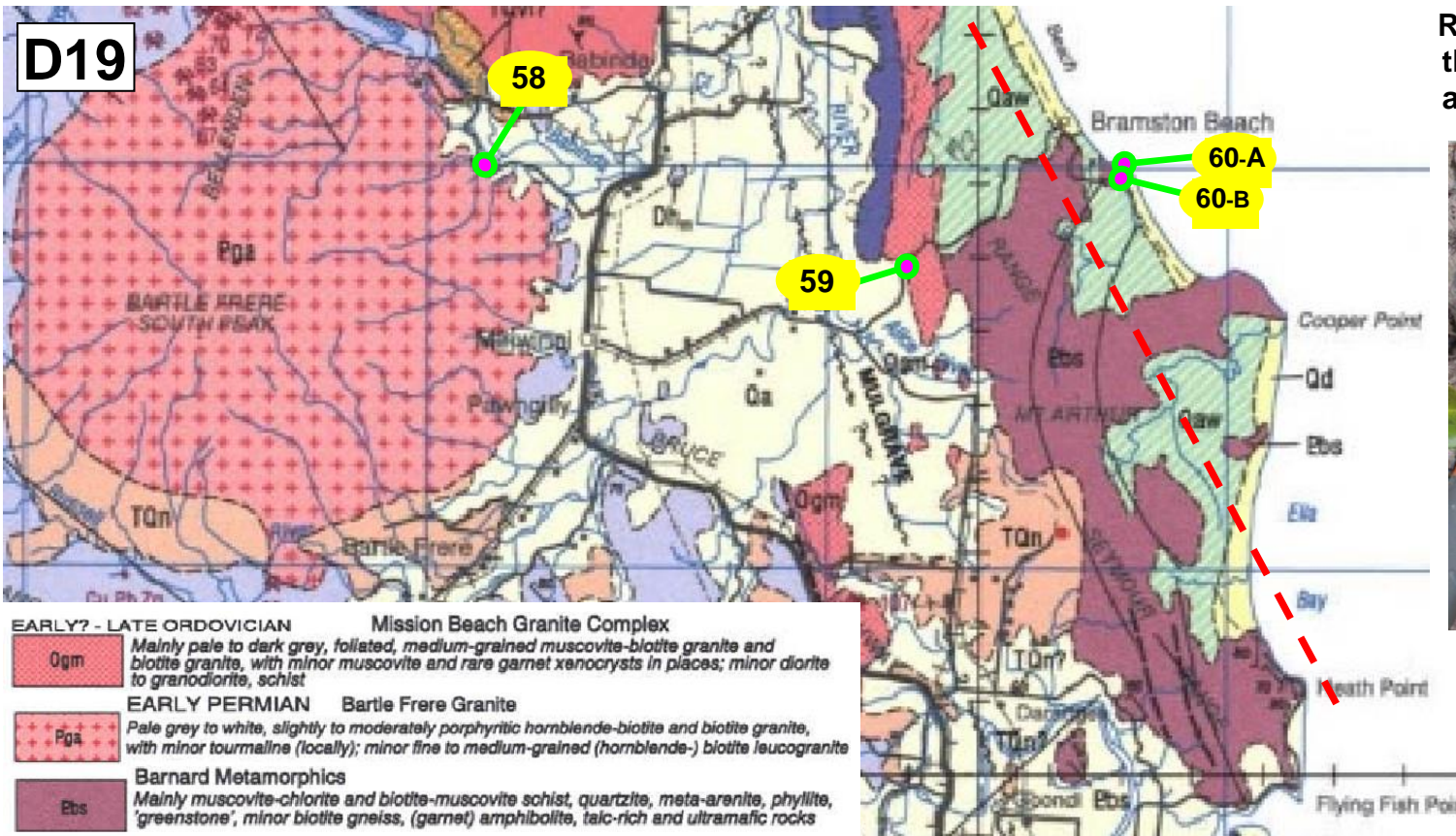


Site 61-B



Site 62 : Note large-scale shutter-cone structure

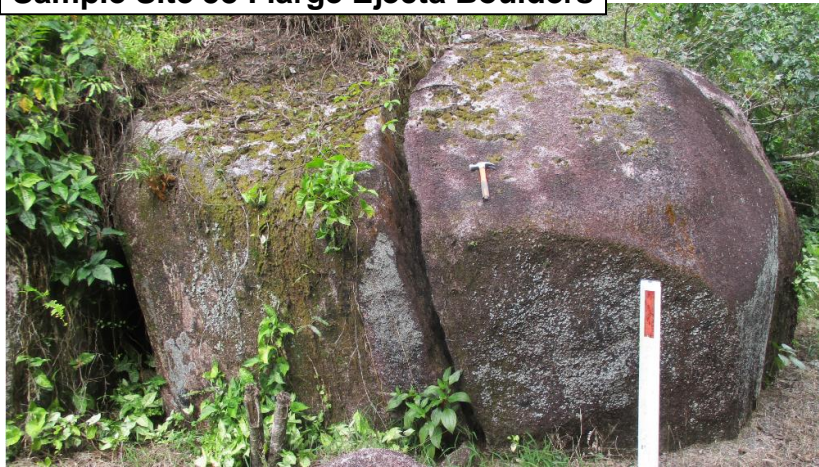




Rock from Sample Site 55 : It seems that this rock was effected by an explosive and high-temperature „Blast-Event“



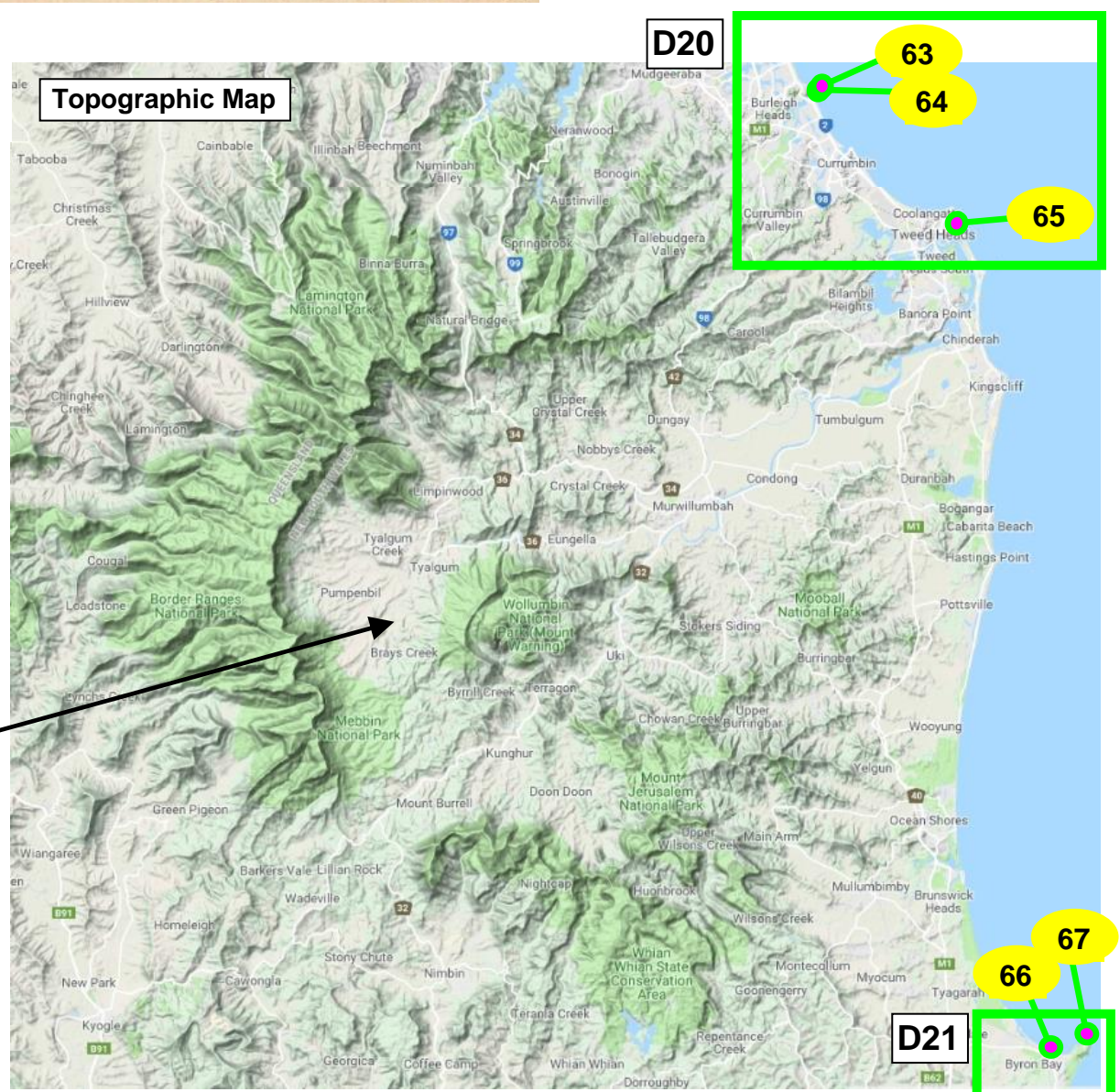
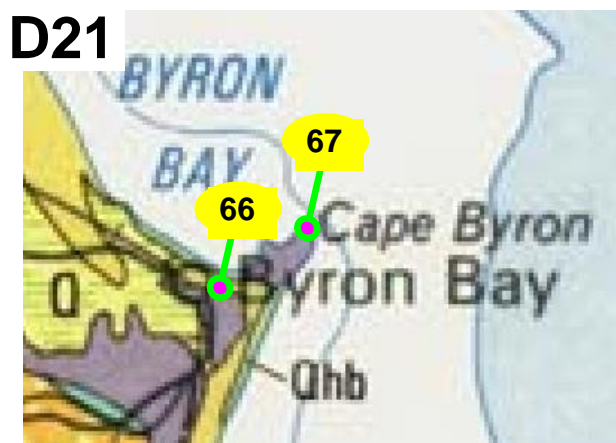
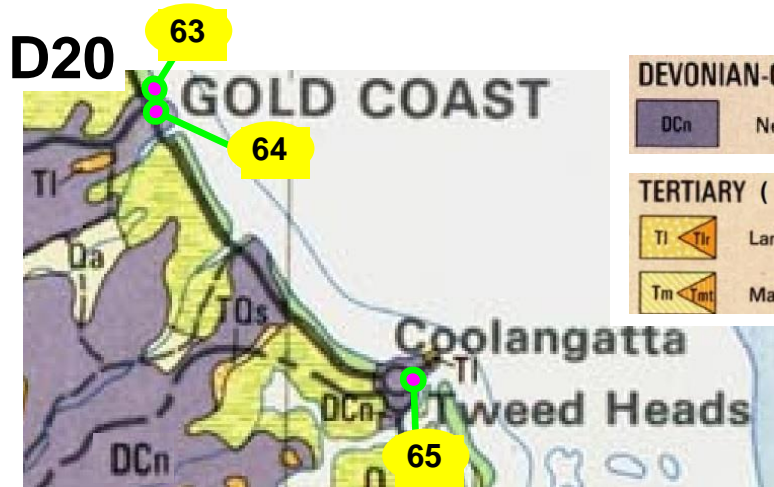
Sample Site 58 : large Ejecta Boulders



Sample Site 60-B : base rock : partly melted ejecta



Samples from Gold Coast & Byron Bay area (~ 2000 km south of Cape York)



The Ø 30 km crater-like area with Mount Warning in the center probably is the result of a large secondary impact caused by the Cape York Impact Event. And it is not the rest of an eroded shield-volcano as currently believed !

The secondary impactor probably caused cracks in Earth's crust which caused post impact volcanism for a certain time and a volcano growing on top of the impact crater which later eroded.

Sample Site 63 : large Ejecta Boulders form the headland Burleigh Heads. Note the “coating of the boulders with a layer of rock-material that was once melted, probably during the Cape York Impact Event, and then solidified again. All boulders here have this kind of burned & melted surface



Sample Site 64 : The whole headland of Burleigh consists of Ejecta Boulders from the Cape York Impact Event



Sample Site 65 :



Sample Site 65 : The rocks show internal shutter-structures. This indicates that the rock-material represents CYC-Ejecta



Sample Site 67 : Note the strong inclination of the rock layers along the coast. Inclination is around 60-70° to the horizontal plane. This probably is a result of powerful “Mount Warning” Secondary Impact Event caused by the CY- Impact Cape Byron



Sample Site 67 : rock layers with an inclination of around 60-70° to the horizontal plane.



For comparison :

→ Here the sample site areas from the **1st trip** to Cape York & Cooktown area

D1

D3

D5

D8

