

Oceanside Geology

Faulting

Pink Normal

Blue Reverse

Stratigraphy

(K) Nanaimo orange

(Tr) Karmutsen green

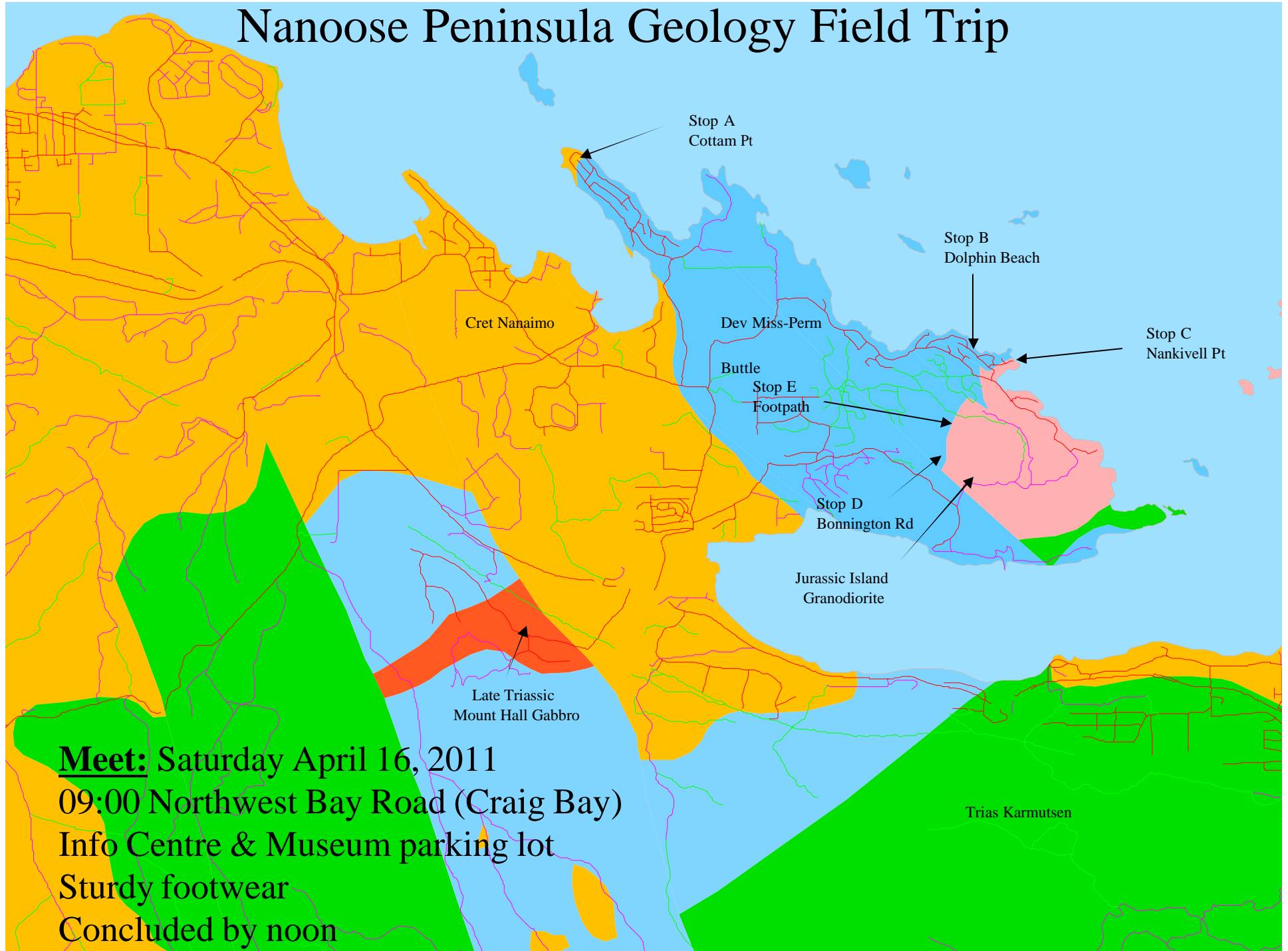
(D-PPn) Sicker - Buttle blue

Island intrusives

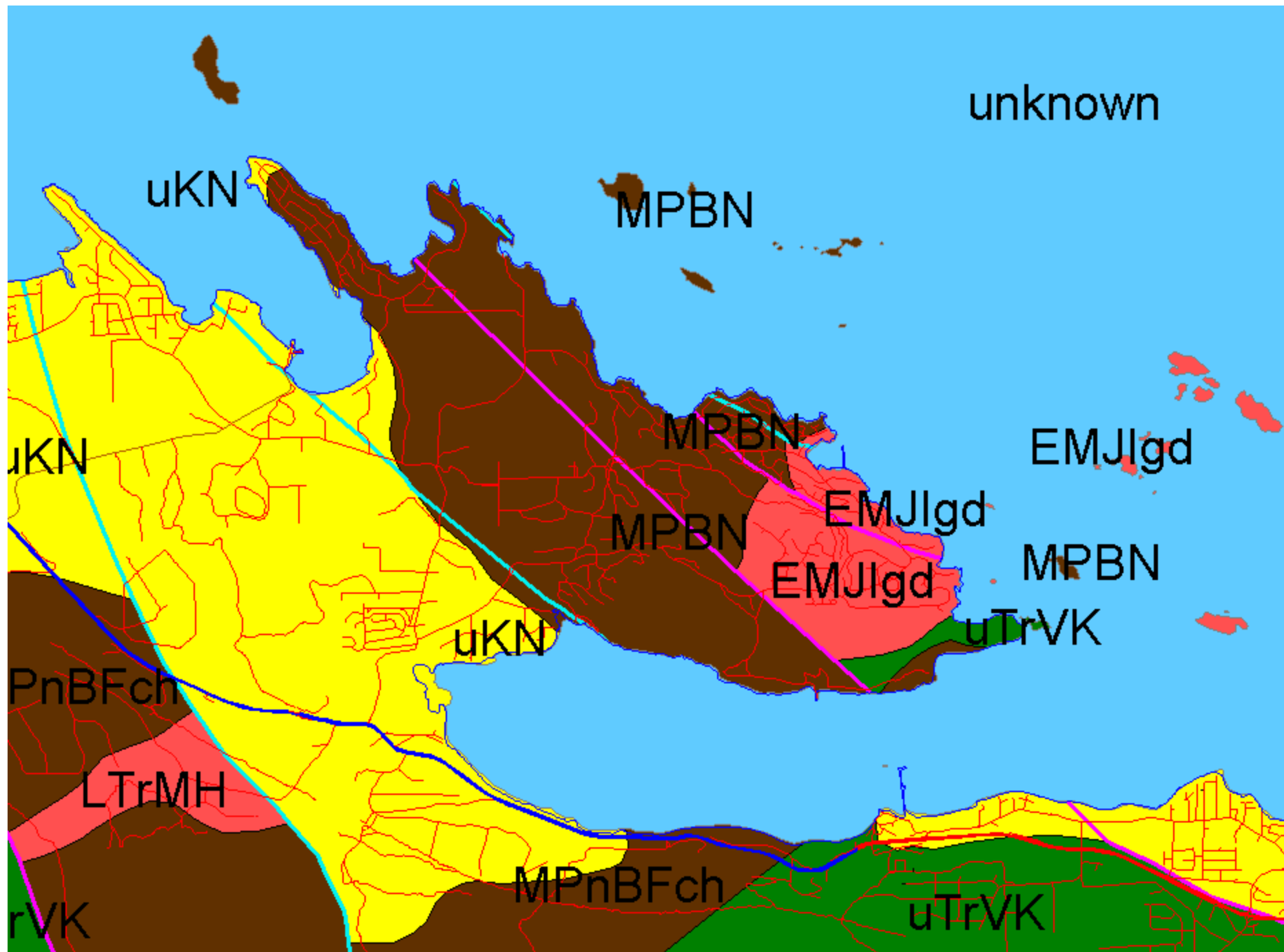
(J) Granodiorite pink

(J) Gabbro red

Nanoose Peninsula Geology Field Trip



Meet: Saturday April 16, 2011
09:00 Northwest Bay Road (Craig Bay)
Info Centre & Museum parking lot
Sturdy footwear
Concluded by noon

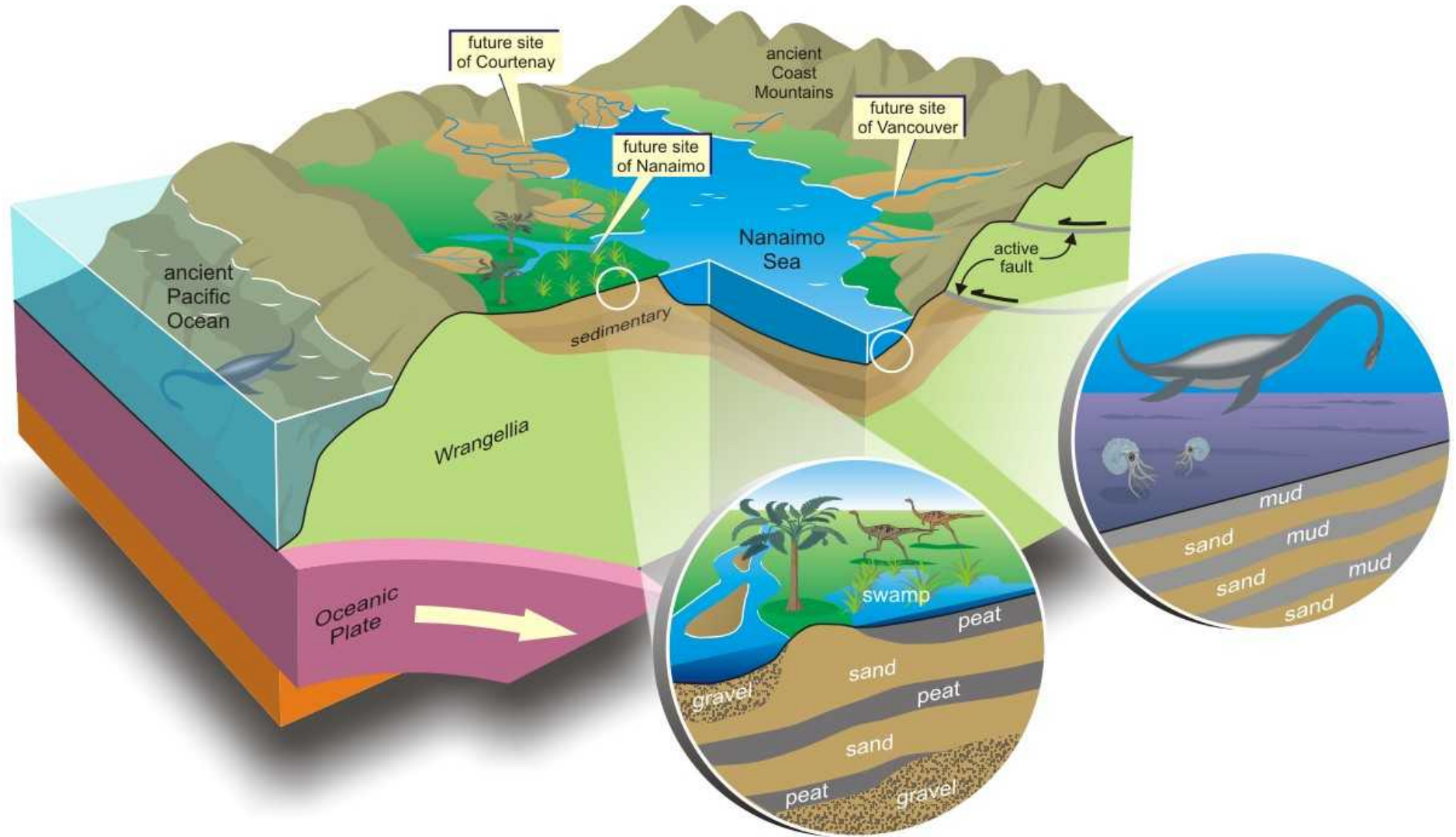


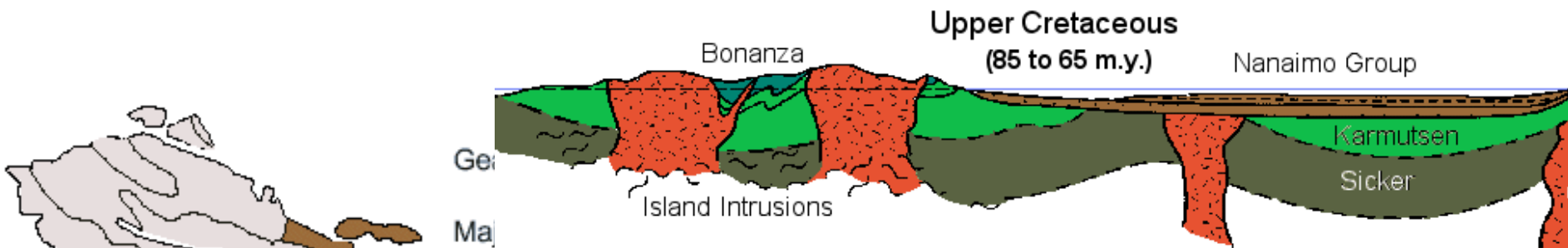
Topics of Interest

Nanoose Uplift Field Trip April 16, 2011

- Early Wrangelia 350 MMyrs
 - Sicker Gp olistostrome submarine landslide of argilite, volcanics, chert, limestone
 - Fracturing and faulting associated with docking of Wrangelia and younger (Tertiary) accretion of Crescent (42 MMyrs) and Pacific Rim (55MMyrs) Terrains
 - Pillow lavas
- Nanaimo Gp conglomerates and sandstone 95 MMyrs
 - Alluvial fan conglomerate, fluvial cross bedded sandstone and siltstone
 - Unconformable contact with underlying Sicker Gp
- Island Intrusive Granodiorite 170 MMyrs
 - Jurassic age igneous pluton in contact with Sicker Gp. hornfelses, xenoliths, gossans

Cretaceous of Vancouver Island


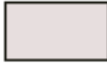




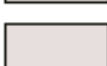





The Nanaimo Group sedimentary rocks were deposited into the basin between Wrangellia and North America.

Nanaimo Group

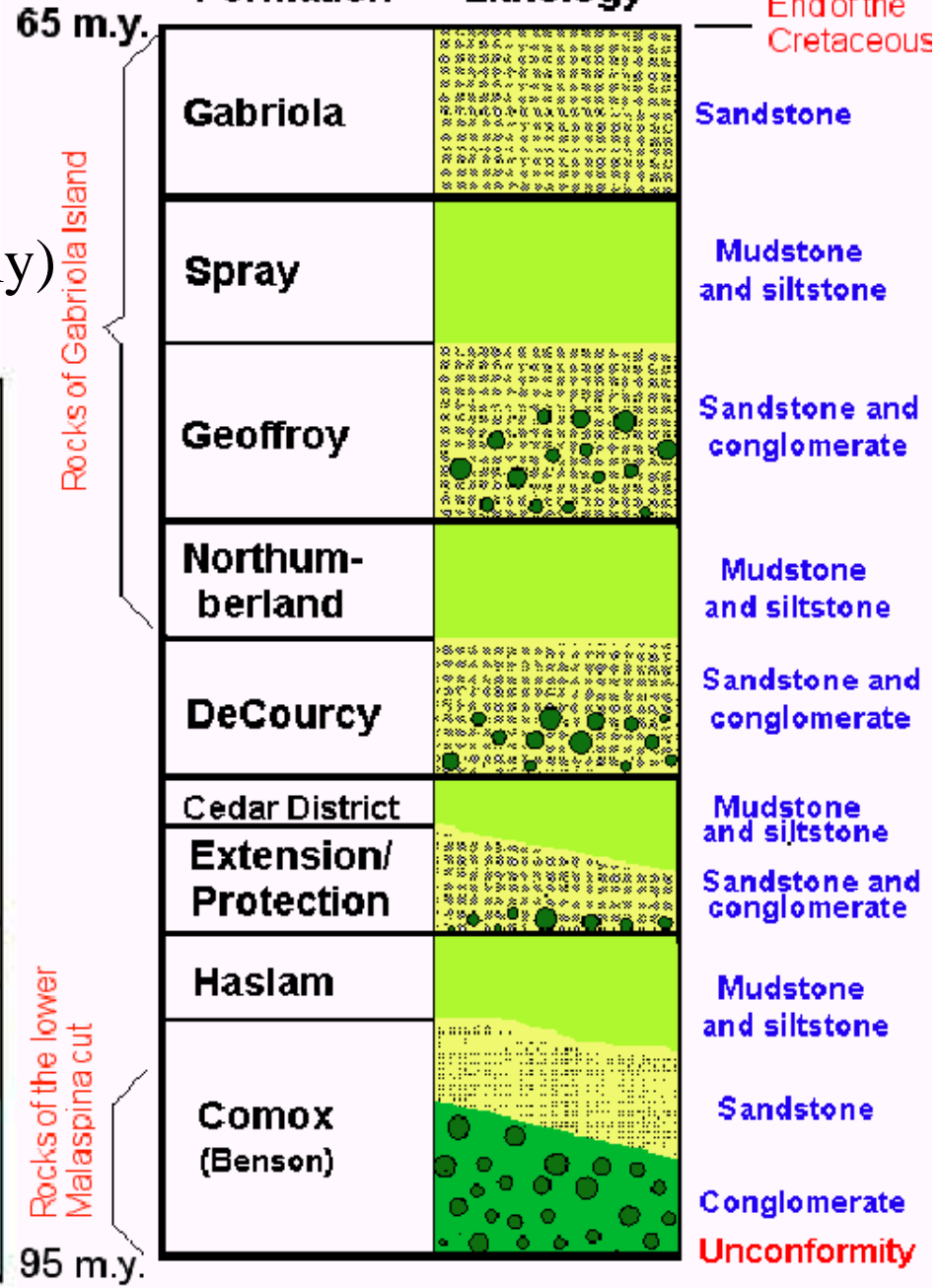
Rock Types

-  Tertiary volcanic rocks
-  Metchosin volcanic rocks
-  Leech River gneisses
-  Nanaimo sediments
-  Island and Westcoast intrusive rocks
-  Bonanza volcanic rocks
-  Karmutsen volcanic rocks and Quatsino limestone
-  Sicker and Buttle Lake volcanic rocks

5000 metres of Upper Cretaceous conglomerate, sandstone, muds & coal deposited shortly after Vancouver Island (Wrangellia) Accreted to North America (100 my)

NANAIMO GROUP

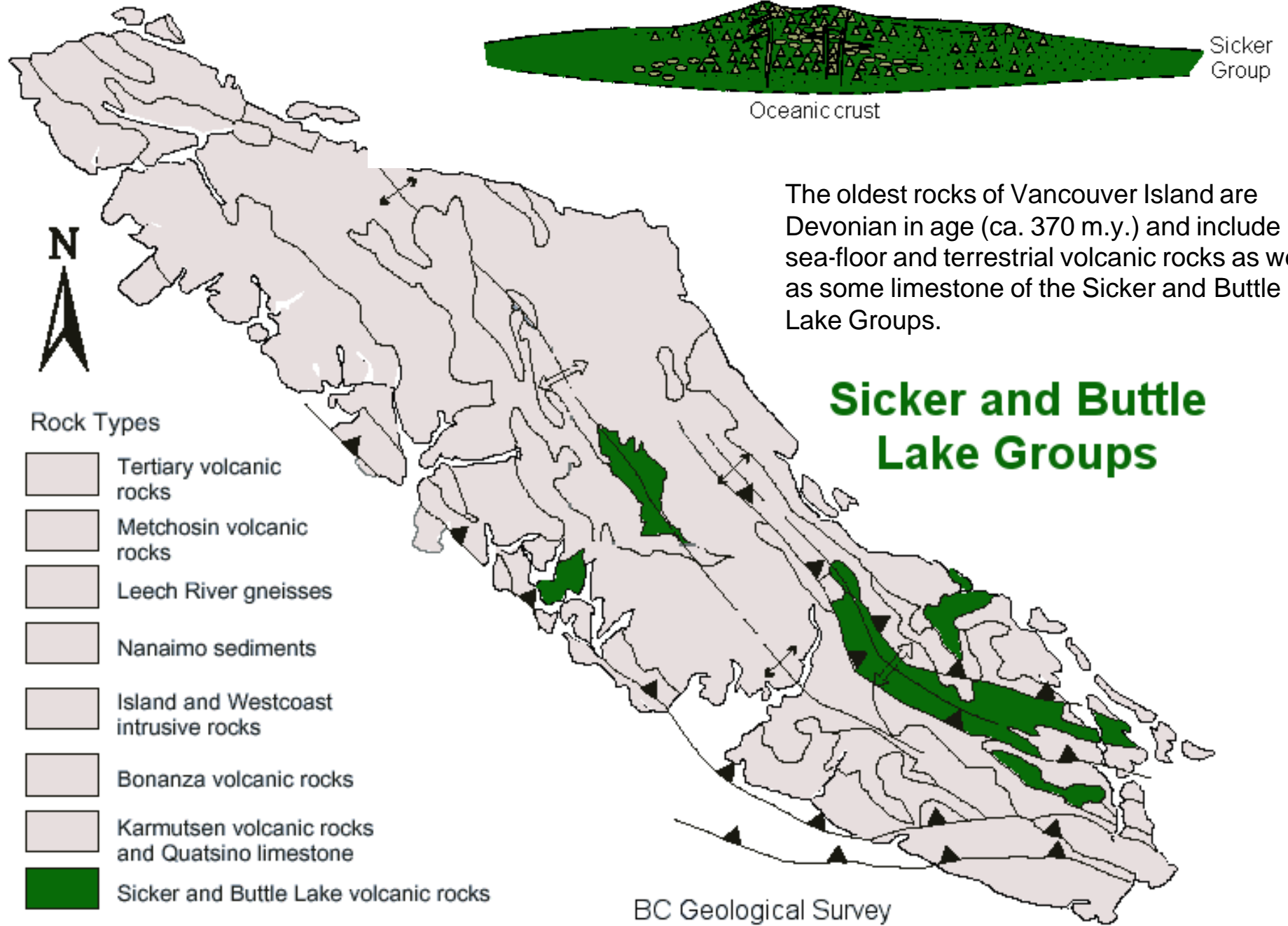
Formation Lithology



**Devonian
(~370 m.y.)**

West Coast

East Coast



The oldest rocks of Vancouver Island are Devonian in age (ca. 370 m.y.) and include sea-floor and terrestrial volcanic rocks as well as some limestone of the Sicker and Buttle Lake Groups.