

Contents

ABSTRACT	1
INTRODUCTION	2
THE COAST MOUNTAINS BATHOLITH	2
A DESCRIPTION OF THE SKEENA RIVER TRANSECT	11
Eastern Belt: Stikine Terrane	11
Eastside Detachment: Stikinia–Central Gneiss Complex Boundary	13
The Core of the CMB: The Central Gneiss Complex	13
Coast Shear Zone: West Edge of the Central Gneiss Complex	16
Western Metamorphic Belt: Alexander and Yukon-Tanana Terranes	17
West of the Western Metamorphic Belt: Sinistral Faults and Jurassic–Cretaceous Plutons	18
OPEN QUESTIONS AND SUGGESTIONS FOR FUTURE WORK	19
A BRIEF OUTLINE OF THE FIELD TRIP	19
STOPS	20
DAY 1. East of the Coast Mountains Batholith: Stikinia	20
Stop 1-1. Bowser Lake Group Strata	20
Stop 1-2. Kitselas Volcanics	20
Stop 1-3. Carpenter Lake Pluton	21
Stop 1-4. Kleanza Pluton	21
Stop 1-5. Zymoetz Formation and View of Early Permian Carbonate Rocks	22
Stop 1-6. Kitsumkalum Pluton	22
Stop 1-7. Kalum Lake Detachment Fault	23
DAY 2. Coast Mountains Batholith: East of the Coast Shear Zone	23
Stop 2-1 (Optional). Hazelton Group Volcanic Rocks	23
Stop 2-2 (Optional). Paleozoic Granitoid Rocks of Stikine Terrane	24
Stop 2-3. Eocene Ponder Pluton	24
Stop 2-4. Eastside Detachment: Shames River Mylonite Zone	24
Stop 2-5 (Optional). Granite Orthogneiss of CGC	25
Stop 2-6. Exchamsiks Lower-Plate Rocks and Central Gneiss Complex	25
Stop 2-7. Kasiks Sill	26
Stop 2-8. Quottoon Pluton	26
Stop 2-9. Quottoon Pluton at Telegraph Point Rest Area	27
Stop 2-10 (Optional). Quarry in Migmatite	27
DAY 3. Central Gneiss Complex: Granulites and Helicopter Stops	28
Stop 3-1. Kwinitsa Quarry Granulites	28
Stop 3-2. Sillimanite–Garnet Restites on Recumbent Peak	29
Stop 3-3. Ridge Crest above Assimilation Lake near Upper Contact of Kasiks Sill	29

DAY 4. Western Metamorphic Belt: Prince Rupert Harbour Area	30
Stop 4-1. Chloritoid-Staurolite-Garnet Schist	31
Stop 4-2. Folded and Metamorphosed Alexander Terrane	32
Stop 4-3. Carbonate and Rhyolite of Alexander Terrane	32
Stop 4-4. Gravina Assemblage on Carr Island	32
DAY 5. Western Metamorphic Belt: East of Prince Rupert	33
Stop 5-1. Metamorphic Rocks on Hospital Hill	33
Stop 5-2. Galloway Rapids Islet	33
Stop 5-3. Structural Base of Ecstall Pluton	34
Stop 5-4. Rainbow Pass, Epidote-Rich Ecstall Pluton	34
Stop 5-5 (Optional). Ecstall Pluton	35
ACKNOWLEDGMENTS	35
REFERENCES CITED	35