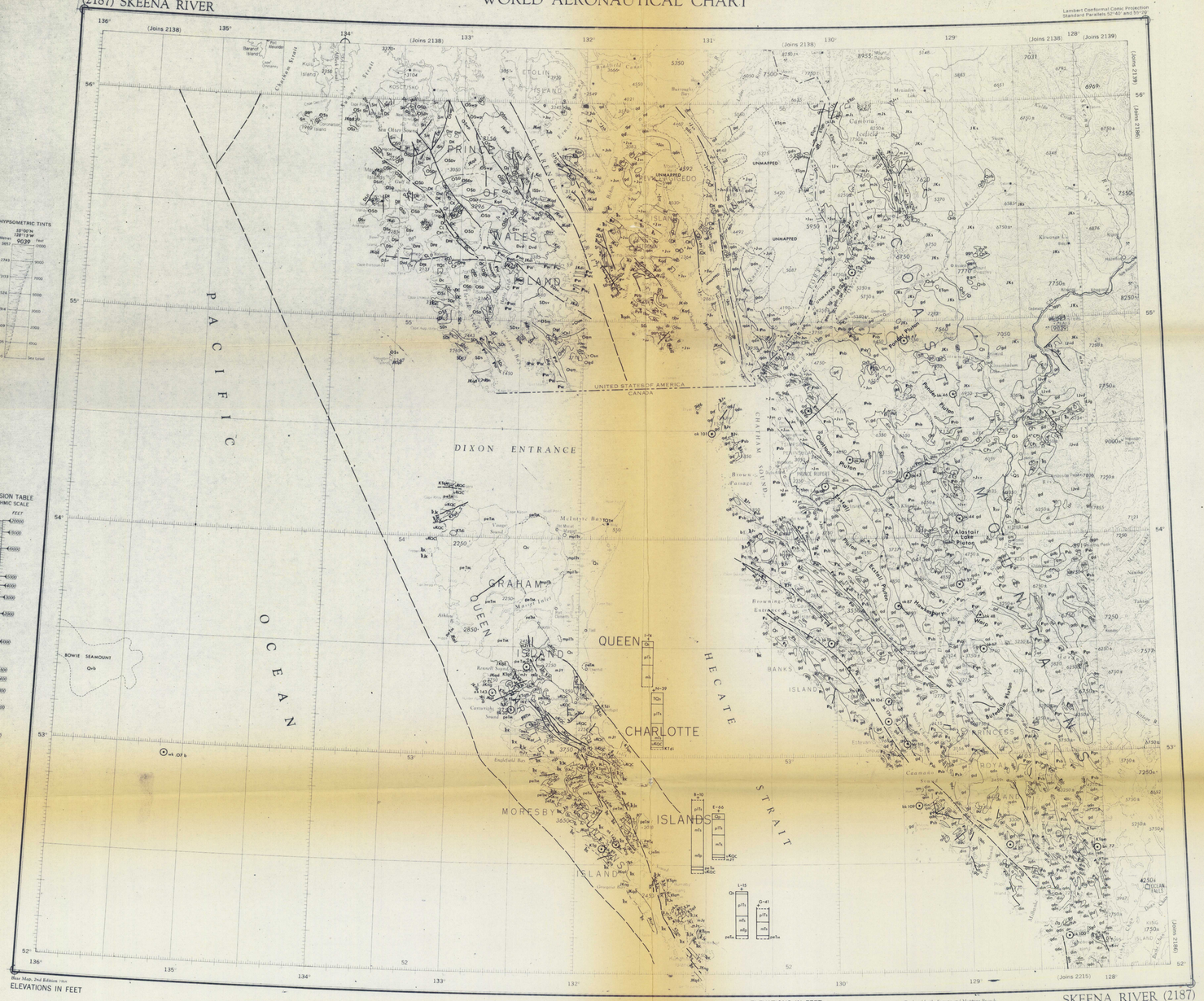
(2187) SKEENA RIVER

WORLD AERONAUTICAL CHART



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LEGEND

SKEENA RIVER

QUATERNARY

- Qab :basalt flows, ash
- Qs :continental and marine sand,glacial deposits
- Qm :non-marine shale

TERTIARY AND QUATERNARY
Pliocene and Pleistocene

- TQv :VOW HILL Hills olivine basalt
- TQn :non-marine sand

TERTIARY
Lower Pliocene

- pTn :continental sand, some shale

Miocene and Pliocene

- mpTn :SKUKUM sandstone,mudstone
- mpTab :basalt, tuff

Upper Miocene

- mTn :non-marine sand,coal,some shale
- mTn :marine and non-marine shale,coal

Paleocene and Eocene

- peTa :HASSET basalt,rhyolite

CRETACEOUS
Upper Cretaceous

- uKOC :QUEEN CHARLOTTE GROUP shale,siltstone, sandstone
- uKcs :sandstone,conglomerate,greywacke,slate

Lower Cretaceous

- lK :LONGARM siltstone,greywacke,conglomerate

JURASSIC AND CRETACEOUS

- JKs :siltstone,argillite,greywacke,conglomerate (includes upper part of SKEIDUM GROUP)

JURASSIC
Middle Jurassic

- m-Jv :SKEIDUM GROUP andesite,tuff,basalt
- m-Jw :rhyolite, breccia,tuff, andesite
- m-Jc :SKEIDUM andesite, agglomerate
- m-Jn :SKEIDUM GROUP siltstone, greywacke, sandstone

Lower Jurassic

- lJl :limestone
- lJs :NAUDIE shale, argillite
- lJa :SKEELTON GROUP andesite, basalt
- lJsd :sandstone, some rhyolite

PRE-UPPER JURASSIC

- ₊Jr :amphibolite, schist, marble
- ₊Jn :amphibolite gneiss
- ₊Jx :schist, gneiss of amphibolite grade

TRIASSIC AND JURASSIC

- TJv :meta-volcanic rocks
- TJk :KUNGA limestone, argillite

TRIASSIC

- Ts :limestone conglomerate,greywacke,volcanic sandstone
- Tv :andesite,breccia,tuff,greywacke, argillite

Upper Triassic and/or earlier

- Tr :KARMUTSEN volcanics basalt,pillow lava, breccia

CARBONIFEROUS AND PERMIAN

- CPl :limestone, some chert
- CPt :greenstone, shale,limestone

PALEOZOIC
Upper Paleozoic and (?) older

- Pzh :meta-sediments, amphibolite, schist, gneiss of garnet to sillimanite grade
- Pz :quartzite
- Pzc :crystalline limestone
- Pzs :sericite phyllite, schist
- Pzb :biotite gneiss, gneissic granitic rocks, migmatite of almandine-amphibolite grade
- Pzr :amphibolite,gneiss, migmatite
- Pzp :granitoid gneiss,migmatite,schist, gneissic quartz diorite predominantly of sillimanite grade

AGE UNDETERMINED

COAST RANGE INTRUSIVE AND METAMORPHIC COMPLEX

- :schist,gneiss,quartzite of amphibolite grade
- :granitic and intermediate intrusive rocks
- g :granite
- gd :granodiorite
- gdb :biotite granodiorite
- gdh :foliated granodiorite and gneiss
- gm :quartz monzonite
- qd :quartz diorite
- qdh :foliated quartz diorite and gneiss
- d :diorite
- dm :foliated to gneissic diorite,migmatite, local amphibolite
- bd :gabbro-diorite migmatite complex
- mg :migmatitic complexes
- b :gabbro
- ub :ultramafic rocks

SYMBOLS

Lithologic contacts: known, inferred: ——— , — — — —

Limits of drift, ice and unmapped areas: .....

Faults: known, inferred: unknown displacement, thrust, reverse, normal

Folds: anticlines, synclines: ——— , — — —

Offshore wells: scale- 1" = 10,000': N-39—Shell Oil Co. number; well location

contact; uppermost layers not sampled

base of unit not reached

Radiometric age determinations: sample location and rock type: acidic to intermediate plutonic; basic and ultrabasic plutonic; metamorphic; schist

minerals analysed: biotite, amphibole; whole rock: b,o,w

age in millions of years: 104

isotopes determined: potassium/argon: k

laboratory designation: University of Alberta: a; University of British Columbia: b; Geological Survey of Canada: no letter used

SKEENA RIVER / SOUTHEAST ALASKA

QUATERNARY

- Qn :continental and marine sands, glacial deposits
- Qv :ARTHUSIAN Volcanics basalt, andesite

TERTIARY AND QUATERNARY
Pliocene and Pleistocene

- TQ1 :TLEVNA Volcanics, olivine basalt

TERTIARY

- Tm :sandstone,conglomerate,minor coal

Lower Tertiary

- Tv :basaltic and andesitic lava

TERTIARY
Early Tertiary

- tSqm :quartz monzonite

CRETACEOUS

- Kqd :quartz diorite
- Kqdh :gneissic quartz diorite
- Kdi :diorite
- Kb :gabbro
- Kub :ultramafic rocks
- Kpm :pyroxenite, some gabbro, diorite

JURASSIC AND CRETACEOUS

- JKg :granite
- JKqd :quartz diorite, diorite
- JKdi :diorite
- JKbd :gabbro, diorite

JURASSIC AND CRETACEOUS

- JKd :rhyolite,slate,greywacke,conglomerate
- JKs :schist
- JKmd :meta-andesite

JURASSIC
Lower Jurassic

- lJv :SKEELTON GROUP andesite, basalt

Pre-Upper Jurassic (includes SILURIAN to TRIASSIC rocks)

- ₊Jx :meta-volcanic(?)sediment and meta-volcanic rocks
- ₊Jr :amphibolite, schist, marble
- ₊Jd :rhyolite,quartzite,slate
- ₊Jb :schist,phyllite,marble
- ₊Jm :layered gneiss,schist, marble of amphibolite grade
- ₊Jn :amphibolite gneiss

TRIASSIC AND JURASSIC

- TJg :granite

TRIASSIC

- Ts :sedimentary rocks
- Tsv :sedimentary rocks, basalt

TRIASSIC

- Tqds :foliated quartz diorite

PALEOZOIC AND MESOZOIC (SILURIAN to TRIASSIC)

- PMzs :sedimentary and volcanic rocks

PERMIAN

- Pvb :basaltic Rocks

CARBONIFEROUS

- Cc :KLAMAK chlorite-mica siltstone
- Cl :LAUCOMES Limestone
- Cr :STARKOVEEN limestone,dolomite,chert

DEVONIAN

- Dz :KARMEN sandstone,conglomerate,shale, red beds
- Dm :MAGLEISH Limestone
- Dw :greywacke,slate,conglomerate,limestone, lava flows,breccia,tuff (may include SILURIAN and older rocks)
- Dc :CORGAHAN Hill andesite basalt, limestone
- Dla :SAINT JOSEPH limestone,minor basaltic rocks, minor argillite, limestone
- Dm :FORT REFUGIO greywacke,conglomerate, siltstone, basalt
- Dvd :sandsatic lava, breccia, conglomerate

Middle Devonian

- mDc :limestone
- mDv :rhyolite and andesite flows

SILURIAN AND DEVONIAN

- SDc :calcareous rocks
- SDr :clastic sedimentary rocks
- SDw :sedimentary and volcanic rocks
- SDv :volcanic rocks
- SDv :meta-rhyolite

SILURIAN

- Sm :BRUCETA Limestone limestone,conglomerate, sandstone, shale

Lower Silurian

- lSc :marble
- lSm :conglomerate
- lSqp :chert,argillite,tuff,greywacke
- lSw :volcanic greywacke,tuff,conglomerate, conglomerate
- lSsd :sandsatic lava,some clastic sedimentary rocks

SILURIAN

- Sj :strondjhemite

ORDOVICIAN AND SILURIAN

- OSr :clastic sedimentary rocks
- OScg :conglomerate } likely include DEVONIAN
- OSg :slate, argillite
- OSwp :greywacke,slate,minor andesitic volcanic rocks
- OSw :greywacke,tuff,conglomerate,conglomerate, lava

DEVONIAN —

- OSc :greywacke,sudstone,conglomerate,mafic volcanic rocks
- OSm :mafic volcanic rocks

ORDOVICIAN AND SILURIAN

- OSsb :thorndjhelite, pyroxenite

PRE-ORDOVICIAN AMLOR ORDOVICIAN

- ₊Oam :thornfels,schist,amphibolite
- ₊Ocd :black slate
- ₊Oss :schist,gneissic quartz monzonite
- ₊Om :amphibolite

ORDOVICIAN

- Ogm :quartz monzonite
- Ogd :granodiorite
- Ogd :quartz diorite

PALEOZOIC
Upper Paleozoic and (?)older

- Pm :amphibolite,gneiss,migmatite

Lower and Middle Paleozoic

WALES GROUP

- Pw :schist, amphibolite
- Pwm :marble

Lower Paleozoic

- lPm :amphibolite
- lPw :metamorphic rocks of greenschist grade

AGE UNDETERMINED

COAST RANGE INTRUSIVE AND METAMORPHIC COMPLEX

- ggr :acid and intermediate intrusive rocks
- g :granite
- gp :pegmatite
- gd :granodiorite
- gdh :foliated granodiorite and gneiss
- gd :quartz diorite
- qdh :foliated quartz diorite,gneiss
- d :diorite
- mg :migmatitic complexes
- b :gabbro

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JUL 1973
GEOLOGICAL SURVEY
OTTAWA

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