

Samples with Conodonts

015087

6571

(105-G-15)

61° 52.5' N

130° 43' W

medium grey arenaceous fossiliferous (crinoids, possible fusilinae) limestone with light yellow brown weathering sandstone bands (collected by D.S. Jennings)

Norian -
late R

prominent light weathering carbonate unit traced for 18 km to west and 5 km to east - mapped previously as Ssdg (D.J.T.K. in open file 486) then re assigned to Triassic in fig 3 paper 79-14. This is probably the same outcrop D.J.T.K. sampled. Same unit as samples 6583 6751 and 6759

6583

(105-G-15)

61° 52.5' N

130° 48' W

bioclastic and clastic limestone as at 6582 possible brachiopod fragments. limestone contains unidentified off white siliceous rounded clasts. (collected by D.S. Jennings)

Norian -
late R

probable Triassic - same unit as above

6751

105-G-15

61° 51' N

130° 36.5' W

massive medium grey calcareous wacke and limy mudstone with much quartz sand. (collected by J.K. Mortenson)

Norian -
late R

probable Triassic - as above

6759

105-G-15

61° 52.5' N

130° 49' W

Sandy medium grey limestone to highly calcareous greywacke - abundant quartz sand also feldspar and subangular shale frags to 3 cm diam., slightly fetid (collected by J.K.M.)

Norian -
late R

probable Triassic as above

note: this sample had something in it that looked organic and was similar to an object seen in a conodont bearing sample. I have not identified conodonts in this sample however.

7281 10S-J-7 62° 17' N 130° 58' W

argillaceous thin bedded limestone interbedded with limy siltstones with phyllitic partings (collected by JKM)

This is thought to be a Rabbitkettle equivalent but it's an isolated outcrop and this is based on general lithologic similarity only. (i.e. it could be any age!)

Samples with Conodonts (cont)

6935

105-J-2

62° 04' N

130° 51' W

Norian -
late R

thin to thick bedded black carbonate/sandstone with minor buff sandy calcareous cross bedded sandstone and black calcareous shale. (collected by OSJ)

mapped as SD askin gp. based on proximity to rocks nearly continuous with known Askin and because of inferred stratigraphic position derived from more "diagnostic" nearby outcrops. Lithology sounds more like Triassic and outcrop is just north of red and green argillaceous cherts suggestive of Anvil Range Gp equivalents. adding to the uncertainty in this area. I suspect there may be some important unrecognized structures near here. Sampled outcrop is in a stream with good outcrop for several km in an area otherwise devoid of obvious outcrop and would make a good traverse

10226

(105-A-7)

60° 27' N

128° 54' W

light tan weathering medium to light grey quartz siltstone to fine sandstone, forms platy debris. looks like SD section but not as well developed laminae bedding visible on fresh surface. Some angular float here of dark grey to black probable bioclastic grainstone (collected by GA Wilson)

early middle
Devonian

mapped as SD askin equivalents but with considerable uncertainty (Silurian-Dev. and Triassic sections are not easy to distinguish while chopper hopping especially in the Watson Lake area) I believe Grant Abbott has identified Triassic rocks near here.

Yukon Tanana Terrane concordant experiment

#6178 105-G-14 61°50'N 131°13'W

light grey weathering very light grey to white finely crystalline thinly foliated marbles and argillaceous marbles (collected by DSJ)

isolated outcrops of marble interpreted to be structurally overlying unfoliated Anvil Range Group and possibly part of a panel of metamorphic rocks thrust on an Anvil Range Group thrust panel.

8092 105-G-11 61°34'N 131°28'W

medium brown weathering, pale grey marble heavily recrystallized - outcrop has rootless isoclinal in subtle compositional banding and strong foliation parallel to axial planes. (collected by JK Mortenson)

small marble pod in amphibolite and black phyllite unit of Yukon Tanana Terrane - lower part of Mortenson's (PHD thesis) upper unit. Thought to be Ordovician to Mississippian

9306 105-H-5 61°16'N 129°50'W

completely recrystallized pale grey weathering cream to buff crinoidal marble (JKM)

thin marble lense in metabasals of Campbell range probably equivalent to unit of Blussons Frances Lake map.

9830 105A 13 60°48'N 129°32'W

light grey to white recrystallized marble contains thin bands with quartz grains weathering out in relief. no fossils noted (collected by L.C. Piggart)

near base of large carbonate body west of Simpson Lake [unit of Gabrielse's Watson Lake map] - structurally overlies pink rhyolite dated by JK Mortenson at 354 my (sample PR-42 in his PhD thesis)

10057 (105-A-11) 60°33'N 129°13'W

Massive grey slightly recrystallized marble with
crinoid stems. (LCP)

part of Gabrielse's unit

10275L (105-A-6) 60 28' 129°12'W

limestone boulder conglomerate with boulders up
to several feet across, most are in one to a
few inches size range. Sample is from a base
of calcareous sandstone between two massive
conglomerate beds. Have another sample 10275F
of bioclastic limestone fragments from conglomerate.

Clastics in fault contact with same carbonate
body as 10057.

Conodonts

| | | <u>Lat</u> | <u>Long.</u> | | UNIT |
|---|-----------------|------------|--------------|---|-----------------------|
| 8 | NA 22 | 62 29 | 133 19 | ✓ | MAGM |
| 5 | 26 B | 62 25.3 | 133 13 | ✓ | ALBAS |
| 5 | 27 B | 62 25 | 133 06.5 | ✓ | " |
| 5 | 28 A | 62 23.7 | 133 00 | ✓ | " |
| 5 | 30 A | 62 22.4 | 132 59 | ✓ | " |
| 5 | 31 | 62 28.7 | 133 04 | ✓ | " |
| 5 | 32 | 62 25.7 | 133 10 | ✓ | " |
| 2 | NS 30 | 62 13.4 | 132 51.5 | ✓ | SB |
| 6 | φ 32 | 62 08.9 | 132. 47 | | 3D |
| 7 | 76-φ-7 | 62 14 | 132 43 | | ± .2 lat ± .5 long |
| 2 | C-1 | 62 12.2 | 132 55 | | |

See Joanne Jenkins
for other numbers

76-05 266° 8° @ 1200'

Conodont Samples

- ~~1772 (2)~~
- ~~1203 (2)~~
- ~~1148 (2)~~
- ~~1216 (2)~~
- ~~76X11, 354-356, 546-551, 361-370, 485.5-488, 561-564~~
- ~~1923~~
- ~~1100~~
- ~~1717~~
- ~~1625a (3) DP~~
- ~~1690~~
- ~~1916~~
- ~~1307~~

Volcanic Rocks

| | | |
|----------|----------|------|
| 1863 (3) | 1241 | 1912 |
| 1778 | 1776 (2) | 1487 |
| 788 | 366 (2) | 1485 |
| 1142 | 742 (2) | 1505 |
| 1192 | 1907 (3) | 1617 |
| 1129 | 1025 | 830 |
| 1329 | 1135 | 692 |
| 1922 | 1917 | 1480 |
| 1080 | 1739 (2) | 758 |
| 1481 | 1459 | 1497 |

Anvil Range Samples

| | | | |
|-------|----------|------|----------|
| 1926 | 1723 | 1702 | 1292 |
| 955 | 1898 | 1723 | 743 |
| 921 | 1896 | 1712 | 1681 |
| 914 | 1895 (2) | 1710 | 744 |
| 1924 | 1897 | 1696 | 1168 |
| 987 | 1683 | 1707 | 1784 |
| 1919 | 1901 | 1719 | 1680 |
| 1075 | 1008 | 1705 | 1165 |
| 875A | 1898 | 1711 | 1805 |
| 1688 | 1637 | 122 | 1164 |
| 881 | 402 | 1894 | 1782 |
| 1922 | 396 | 1715 | 1691 |
| 886A | 1706 | 1724 | 1216 |
| 887 | 1722 | 1714 | 1166 |
| 905 | 1690 | 697 | 1776 |
| 869 | 1684 | 172 | 1164 |
| 1134 | 1695 | 1895 | 1866 |
| 750 | 1639 | | 1137 |
| 1161 | 1680 | | 1684 |
| 1625b | 1717 | | 67-R1 |
| 870 | 1694 | | 70-Sun 1 |
| | 1699 | | RH71-032 |
| | 1708 (2) | | 885A |
| | 1692 | | 987 (2) |
| | 1699 | | 1919 |
| | | | 1297 |

| | | | | | |
|---|-----------|---|---------|---|----------|
| 1 | 75-02 | { 61-118 224, 372, 452 618, 639, 681 -763, 875 } | 62° 12' | ; | 132° 55' |
| 1 | 75-03 | | 62° 12' | ; | 132° 55' |
| 1 | 75-04 | { 132, 319, 590 660-665, 760 } | 62° 12' | ; | 132° 55' |
| 1 | 75-05 | | 62° 12' | ; | 132° 55' |
| 1 | 76-01 | | 62° 12' | ; | 132° 55' |
| 1 | 76-05 | { 3525-355, 463 482, 507, 618 } | 62° 12' | ; | 132° 55' |
| 2 | X72-06 RH | { 657, 661, 680 692 } | 62° 13' | ; | 132° 55' |
| 4 | CED 72-04 | | 62° 14' | | 132° 49' |
| 3 | 66-53 | | 62° 11' | | 132° 53' |
| 3 | 66-51 | | 62° 11' | | 132° 53' |

75-02

229 - station (3) in pail — send to BEBC

WAS ALREADY

LATS & LONGS
 STRAT POSITIONS
 LOCATION MAP.
 DK MAP