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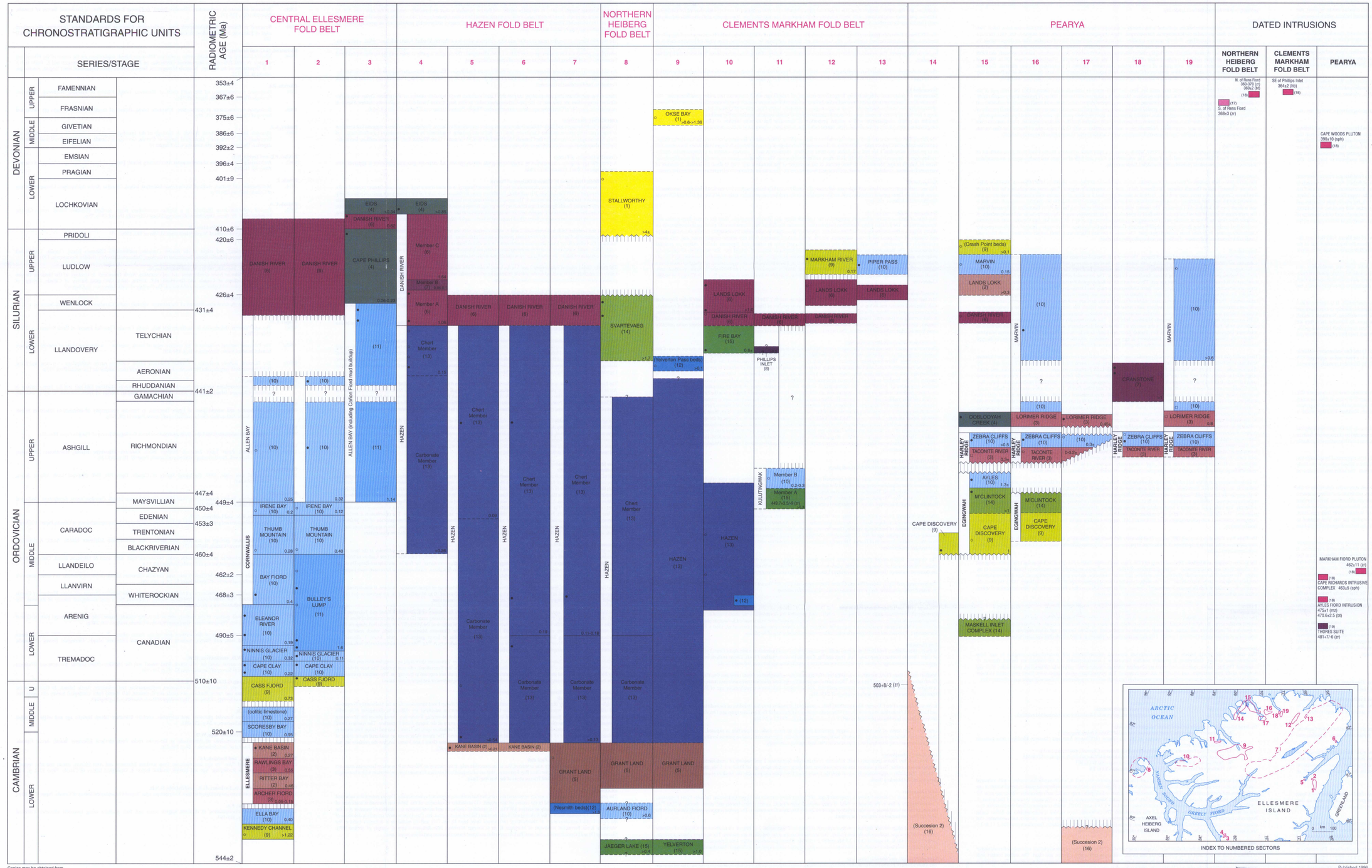


## LITHOLOGICAL COLOUR CODE

- 1 — Clastics; coarse, nonmarine (sandstone, mudrock, conglomerate)
- 2 — Clastics; fine, shallow marine (mudrock ± sandstone)
- 3 — Clastics; coarse, mainly shallow marine; may include carbonates and/or nonmarine sediments (sandstone, mudrock ± conglomerate ± limestone)
- 4 — Clastics, fine, deep water and transitional (mudrock ± sandstone ± resedimented carbonates ± chert)
- 5 — Clastics; coarse and fine, mainly deep water sediment gravity flows, craton-derived (sandstone, mudrock ± conglomerate)
- 6 — Clastics; coarse and fine, mainly deep water sediment gravity flows, orogen-derived (sandstone, mudrock ± conglomerate ± resedimented)
- 7 — Clastics; coarse, deep water sediment gravity flows orogen-derived (conglomerate, sandstone, mudrock)
- 8 — Clastics; coarse, mainly deep water sediment gravity flows derived from serpentinite (sandstone, conglomerate, mudrock)
- 9 — Carbonates and clastics, shallow marine (± volcanics in Pearya)
- 10 — Mainly carbonates, shallow marine (may include clastics)
- 11 — Shelf margin carbonate buildups
- 12 — Mainly shallow marine carbonates, resedimented in deep water settings (including large olistoliths)
- 13 — Condensed deep water deposits (chert, resedimented carbonates, mudrock; minor sandstone)
- 14 — Volcanic and sedimentary rocks (arc)
- 15 — Volcanic and sedimentary rocks (origin uncertain)
- 16 — Sedimentary and volcanic rocks metamorphosed in greenschist and amphibolite facies
- 17 — Felsic dykes and hypabyssal plugs
- 18 — Granitoid plutons
- 19 — Ultramafic-mafic plutonic complexes with minor granitoid components

## NUMERICAL AGE DETERMINATIONS

*Isotopic age in millions of years* ..... 375±2
$^{40}Ar$ - $^{39}Ar$ *determination on biotite* ..... (bt)
$^{40}Ar$ - $^{39}Ar$ *determination on hornblende* ..... (hb)
*U-Pb determination on monazite* ..... (mz)
*U-Pb determination on sphene* ..... (sph)
*U-Pb determination on zircon* ..... (zr)

## CONTACTS

*Conformable (age established, approximate, assumed)*
*Disconformable (age established, approximate, assumed)*
*Possibly disconformable*
*Unconformable; low-angle (age established)*
*Unconformable; high-angle (age established, approximate, assumed)*

## AGE FROM FOSSILS

*Fossils indicating age to a stage or better* ..... ●
*Fossils indicating age to a series or better* ..... ○
*Fossils indicating age to a system* ..... □

## OTHER CONVENTIONS

*Group* ..... ELLESMERE
*Formation* ..... SVARTEVAEG
*Member* ..... Member A
*Informal unit* ..... (Crash Point beds)
*Thickness (kilometres)* ..... 1.14

*Compiled by H.P. Trettin, 1995*

*Digital cartography by the Geological Survey of Canada (Calgary)*

*Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada*

## NOTES

Concerning North American Ordovician Stage boundaries: In accordance with conodont identification by Nowlan, the term Whiterockian is used as originally defined (Cooper, 1956) and not as revised to Series level by Ross, et al. (1982)

Time scale adapted from Okulitch, 1995

Published 1996

Copies may be obtained from
the Geological Survey of Canada
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Canada

1881A to 1888A → **CORRELATION CHART FOR CAMBRIAN TO DEVONIAN UNITS**

ESIC CIST
JUN 6 1997
Earth Sciences Sector / Secteur des sciences de la Terre

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Recommended citation:
Trettin, H.P.
1996: Correlation chart for Cambrian to Devonian units, northern Ellesmere and Axel Heiberg islands, and geological summary.

1881A to 1888A Correlation Chart

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