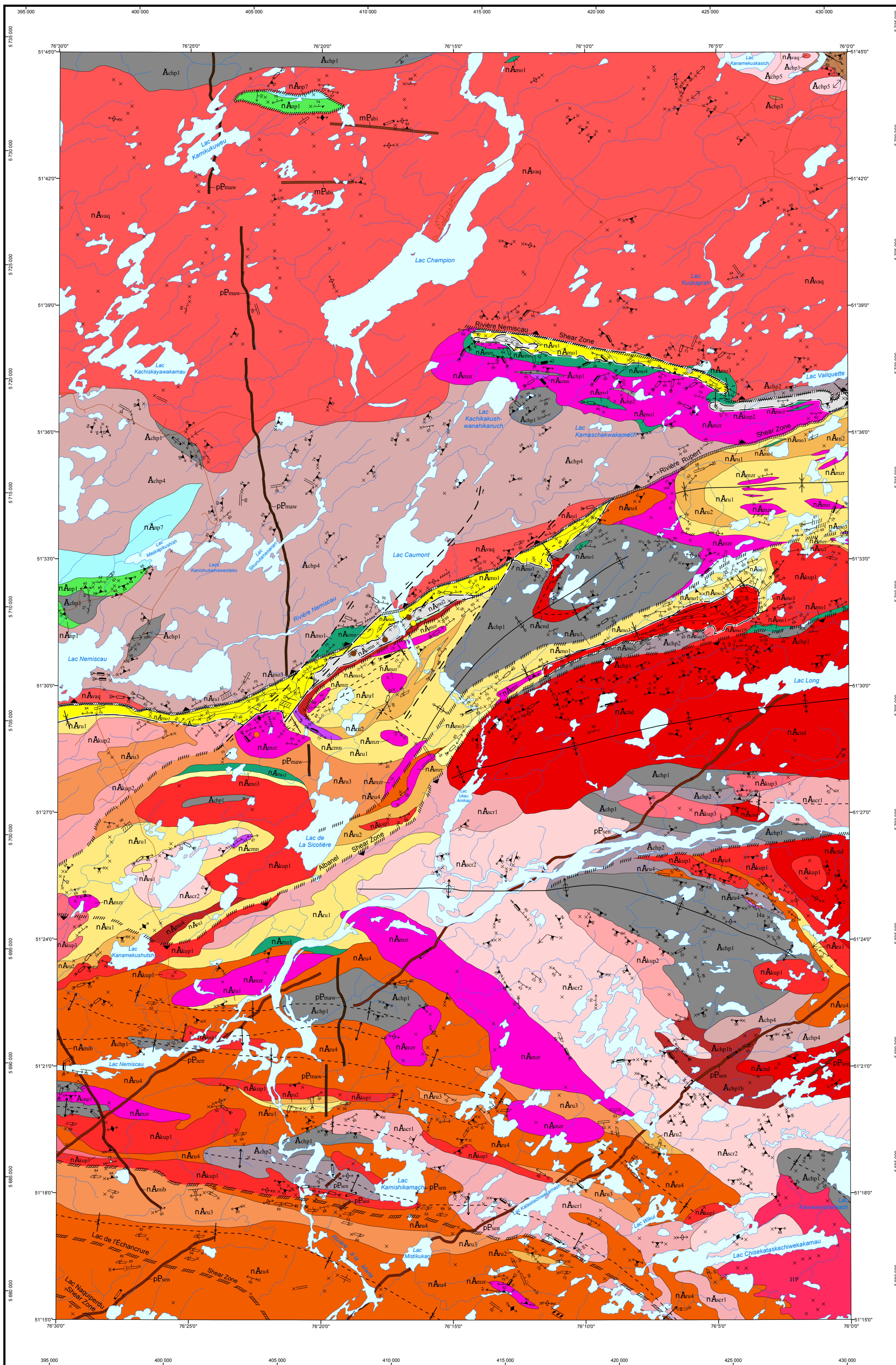


# Geology of the Champion Lake Region, La Grande and Nemiscau Subprovinces, East of Waskaganish, Eyou Istchee James Bay, Quebec, Canada



### STRATIGRAPHIC LEGEND

**MESOPROTEROZOIC**

Abitibi Dykes (1140.6 ± 2 Ma, Krogh et al., 1987)  
**nAmd** Diabase dyke (E-W): Olivine gabbro diabase

**PALEOPROTEROZOIC**

Senneterre Dykes (221 ± 4 Ma and 2216 ± 8 Ma, Buchan et al., 2007; Davis et al., 2016)  
**pPmaw** Diabase dyke (NE-SW): Gabbro/diorite diabase  
**pPmaw** Matachewan Dyke Swarm (2473-2446 Ma, Heaman, 1997)  
**pPmaw** Diabase dyke (N-S): Gabbro diabase

**NEOARCHAIC**

Mistassini Dyke Swarm (2515 ± 3 Ma, Hamilton, 2009)  
**nAmi** Diabase dyke (NW-SE): Olivine gabbro/diorite diabase, locally plagioclase porphyritic

**SUPERIOR PROVINCE**

**Kaupanaukau Suite**  
**nAsup3** Pink granitic pegmatite  
**nAsup2** Pink granitic pegmatite and granite  
**nAsup1** Pink biotite ± magnetite granite

**Canards Suite**  
**nAcan** Foliated biotite granite

**La Sicotière Suite**  
**nAsc2** Foliated porphyritic granodiorite  
**nAsc1** Porphyritic quartz monzonite and quartz monzonite

**NEMISCAU SUBPROVINCE**

**Mezières Suite**  
**nAmz** White biotite ± garnet ± muscovite granitic pegmatite

**Caumont Mafic-Ultramafic Suite**  
**nAmn** Peridotite, pyroxenite and gabbro

**Rupert Complex**  
**nAru4** Diatexite derived from paragneiss, containing 50-90% mobilisate and 10-30% paragneiss enclaves  
**nAru3** Metatexite derived from paragneiss, containing 20-50% mobilisate; biotite ± garnet granite intrusions  
**nAru2** Migmatitized paragneiss, containing 10-20% mobilisate; biotite ± garnet granite intrusions  
**nAru1** Biotite-hornblende ± garnet ± sillimanite ± cordierite paragneiss, containing less than 10% mobilisate

**Lac des Montagnes Group**  
**nAmo4** Iron formation  
**nAmo3** Felsic volcanoclastics  
**nAmo2** Intermediate volcanics  
**nAmo1** Amphibolitized basalt

**LA GRANDE SUBPROVINCE**

**Valiquette Pluton**  
**nAval** Biotite granite

**Eastmain Group**

**Anatacau-Pivert Formation**  
**nAup7** Metagrawacke; conglomerate horizons  
**nAup1** Amphibolitized basalt and amphibolite

**ARCHEAN**

**Champion Complex**  
**Achp5** Porphyritic granodiorite  
**Achp4** Granodiorite, local tonalite  
**Achp3** Diorite and quartz diorite  
**Achp2** Tonalite, pyroxene-hornblende granodiorite  
**Achp1** Tonalitic gneiss, locally granitic  
**Achpb** Diatexite derived from tonalitic to dioritic rocks, containing 50-90% mobilisate and 10-30% tonalite or diorite enclaves

### LITHOLOGIC LEGEND

**NEOARCHAIC**

**IIP** Charnockite  
**I4a** Peridotite and pyroxenite

**PROSPECTIVE ZONE FOR MINING EXPLORATION**

Platinum Group Elements  
 Gold  
 Zinc

**SHOWING AND DEPOSIT**

**Metallic Substance**

● Silver, Copper  
 ● Nickel, Gold  
 ● Zinc

Symbols and abbreviations used on this map are described in publication DV 2014-06 of the Ministère de l'Énergie et des Ressources naturelles.

### Location

32N15	32N16	32O13
32N10	32N09	32O12
32N07	32N08	32O05
32N02	32N01	32O04

### Metadata

Geodetic reference frame: Ellipsoïde GRS 80  
 Geodetic reference system: NAD 83 compatible with the world geodetic system WGS 84  
 Cartographic projection: Universal Transverse Mercator (UTM), zone 18  
 Original longitude: 76°15'  
 Original latitude: 0°

**Sources**

Base de données pour l'aménagement du territoire (BDAT 100)

**Organization**

Ministère de l'Énergie et des Ressources naturelles

### Realization

Geology: Daniel Bandyayera et Yannick Daouene (2017)  
 References: Dubé, C. (1974) - DP 278  
 Dubé, C. Y. (1976) - DPV 445  
 Dubé, C. (1978) - DPV 585  
 Valiquette, G. (1963) - RP 500  
 Wallech, J. (1973) - DP 146

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Map of the Bulletin géologique: [http://gq.mines.gouv.qc.ca/bulletins-geologiques/lac-champion\\_en/](http://gq.mines.gouv.qc.ca/bulletins-geologiques/lac-champion_en/)

To obtain the most recent data for this region, we suggest that you consult the geomatics products of Quebec's Geomatics Information System (SIGEM).

Bulletin géologique

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