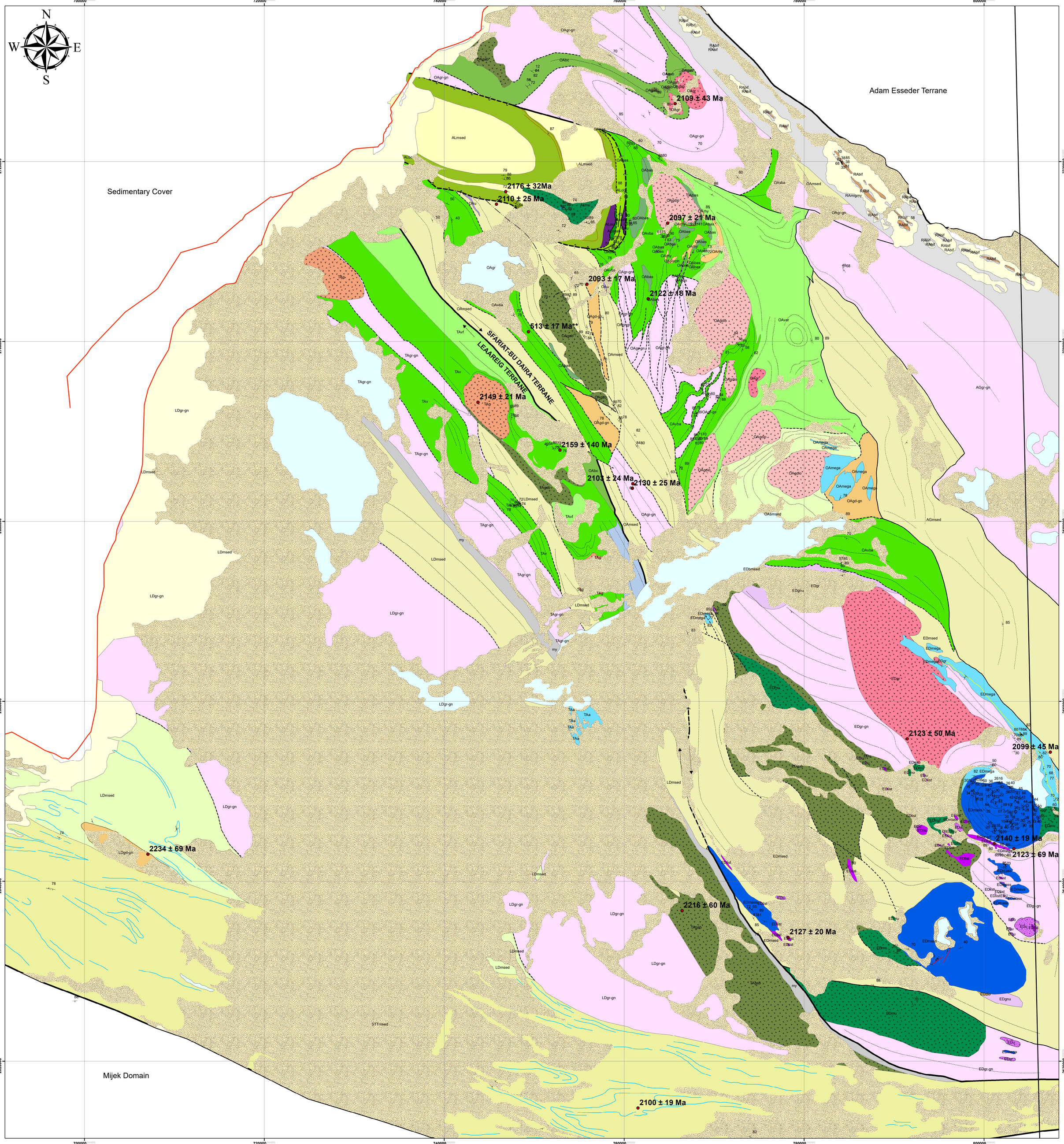
Geological Map of the Adam Ahmed Mouloude Region, Western Sahara



Leaareig Terrane

Stratigraphy

- my — *Mylonite*
- STTmsed — **Sassaiat-Temmimchate-Tsabya Complex** *Metasedimenary rocks - Migmatite (U-Pb zircon 2100 ± 19 Ma), Fe-quartzite and marble*
- *Marble*
- **Agarasras Lackdar** *Ferruginous Chert*
- TAbmar — **Taghsoumat-Aghsoumal** *Marble, minor metabasalt*
- TAvf — **Taghsoumat-Aghsoumal** *Metavolcanics - Andsite, Rhyolite, minor Basalt*
- TAv — **Taghsoumat-Aghsoumal** *Metavolcanics - Basalt, Andesite, sub-volcanic porphyry (U-Pb zircon 2159 ± 140 Ma)*
- ALmsed — **Agarasras Lackdar** *Paragneiss, chert and quartzite (U-Pb detrital zircons 2176 ± 32Ma)*
- LDmsed — **Leaareig** *Metasedimentary rocks*
- LDbmsed — **Leaareig Domain** *Metasedimentary rocks with minor basalt*
- ALbc — **Agarasras Lackdar** *Metabasalt and Chert*
- ALob — **Agarasras Lakhadar Ophiolite** *Basalt*
- ALogab — **Agarasras Lakhadar Ophiolite** *Gabbro*
- ALou — **Agarasras Lakhadar Ophiolite** *Ultramafic Rocks*

Plutonic Rocks

- TAa — **Taghsoumat-Aghsoumal** *Megacrystic anorthosite*
- TAgab — **Taghsoumat-Aghsoumal** *Gabbro and Orthogneiss*
- Abmtu — **Agarasras Lackdar** *Mafic and ultramafic rocks*
- TAgr — **Taghsoumat-Aghsoumal** *Granite (U-Pb zircon 2149 ± 21 Ma)*
- TAgr-gn — **Taghsoumat-Aghsoumal** *Orthogneiss*
- LDgd-gn — **Leaareig Domain** *Granodiorite-gneiss (U-Pb zircon 2174 ± 69 Ma)*
- LDgr-gn — **Leaareig Domain** *Orthogneiss (U-Pb zircon 2216 ± 60 Ma)*

Sfariat-Bu Daira Terrane

Stratigraphy

- *Marble*
- **Oum Abana** *Ferruginous chert*
- RAbif — **Riche Anajim Group** *Banded Iron Formation*
- RAmigmy — **Riche Anajim Group** *Migmatitic gneiss and mylonite*
- AGmsed — **Anajim Guebli** *Metasedimentary rocks (U-Pb detrital zircon 2099 ± 45 Ma)*
- OAmsed — **Oum Abana** *Metasedimentary rocks (U-Pb detrital zircon 2110 ± 25 Ma)*
- OAgrgph — **Oum Abana** *Porphyry*
- OArhy — **Oum Abana** *Rhyolite*
- OAbmsed — **Oum Abana** *Metasedimentary rocks with minor basalt*
- OAvar — **Oum Abana** *Metavolcanics - Andsite, Rhyolite, minor Basalt*
- OAvba — **Oum Abana** *Metavolcanics - Basalt, Andesite, minor Rhyolite (2122 ± 18 Ma), Chert*
- OAbc — **Oum Abana** *Metabasalt and chert*
- OAbas — **Oum Abana** *Metabasalt*

Plutonic Rocks

- QAgsb — **Oum Abana** *Gabbro*
- AGgr-gn — **Anajim Guebli** *Orthogneiss*
- OAgdio — **Oum Abana** *Granodiorite-tonalite (U-Pb zircon 2097 ± 21 Ma)*
- OAgd-gn — **Oum Abana** *Granodiorite-gneiss (U-Pb zircon 2093 ± 17 Ma)*
- OAgr — **Oum Abana** *Granite (U-Pb zircon 2109 ± 43 Ma)*
- OAgr-gn — **Oum Abana** *Orthogneiss (U-Pb zircon 2130 ± 25 Ma, 2103 ± 24 Ma)*
- OAmega — **Oum Abana** *Megacrystic anorthosite*

Elmalhat Anorthosite Complex

- EDbmsed — **Elmalhat** *Metabasalt and metasedimentary rocks*
- **Elmalhat** *Chromitite*
- **Elmalhat** *Fe-Ti-V oxide*
- EDmass — **Elmalhat** *Massif-type anorthosite*
- EDdio — **Elmalhat** *Diorite*
- EDgab — **Elmalhat** *Gabbro*
- EDmu — **Elmalhat** *Mafic and ultramafic rocks*
- EDu — **Elmalhat** *Ultramafic rocks*
- EDlist — **Elmalhat** *Listwanite*
- EDmsed — **Elmalhat** *Metasedimentary rocks and paragneiss (U-Pb detrital zircon 2127 ± 20 Ma)*
- EDgr — **Elmalhat** *Granite (U-Pb zircon 2123 ± 50 Ma, 2123 ± 69 Ma)*
- EDgnu — **Elmalhat** *Orthogniess with ultramafic lenses (U-Pb zircon 2140 ± 19 Ma)*
- EDmega — **Elmalhat** *Megacrystic anorthosite*
- EDgr-gn — **Elmalhat** *Orthogneiss*

1:150,000

Coordinate System: WGS 1984 UTM Zone 28N

0 2.5 5 10 15 20 Kilometers

Cover

- Sand/Alluvium
- Sabkha
- Colluvium

Physical Features

- Geochronology sample
- Suture
- Inferred Suture
- Inferred faults
- Fault

Geographic Features

- International Border
- Berm

