



Geologic formation database for Africa with projections onto plate reconstructions

Wen Du^{1,2}, James Ogg^{1,2,3}, Gabriele Ogg⁴, Rebecca Bobick³, Jacques LeBlanc⁵, Dércio José Levy⁶,
Aditya Sivathanu³, Suyash Mishra⁷, Yuzheng Qian⁸, and Sabrina Chang⁹



*1Deep-time Digital Earth (DDE) Research Center of Excellence (Suzhou), International Union of Geological Sciences (IUGS), China (wendu_0911@icloud.com; jogg@purdue.edu), *2Institute of Sedimentary Geology, Chengdu University of Technology, Chengdu, China

*3Electrical and Computer Engineering, Purdue University, West Lafayette, Indiana, USA *4Geologic TimeScale Foundation, West Lafayette, Indiana, USA, *5International Consulting Geologist, Alberta, Canada, *6Empresa Moçambicana de Hidrocarbonetos, Maputo, Mozambique

*7J.P. Morgan Chase & Co., New York, USA, *8Amazon.com Services LLC, San Francisco, USA, *9J.P. Morgan Chase & Co., Seattle, USA

Select one of the highlighted areas below to go to it's respective lexicon

<https://geolex.org>

Geologic TimeScale Foundation

Welcome to the African Basin Lexicon of Stratigraphic Units!

Please enter a formation name or group to retrieve more information.

Search Formation Name...

Search by

All

Lithology includes:

Fossil includes:

Select Province to search

INFORMATION AT A CLICK

1. Cloud-based open lexicons with clickable map navigator
2. User interface for Niger and Africa.
3. Google-like search for formation name or part of the name.
Or filter by period, and lithology etc.
4. Users can choose a plate tectonic model and a time slice
to view the formation in earth history with just one click!

INFORMATION AT A CLICK

1. Cloud-based open lexicons with clickable map navigator
 2. User interface for Niger and Africa.
 3. Google-like search for formation name or part of the name.
Or filter by period, and lithology etc.
 4. Users can choose a plate tectonic model and a time slice
to view the formation in earth history with just one click!

Change to Alphabetical Listing		Or		Change to By-Age Listing	
Katberg Fm	Arif el-Naga Fm	Nezla Fm	Ras El Hamia	Tripolitania And Sirte Basin Fm	Akbra Shale Yemen Basin General Lithology Fm
Balfour Fm	Balfour Karoo Basin Cape Fold Belt Fm	Middleton Fm	Middleton Karoo Basin Cape Fold Belt Fm	Zarzaitine Fm	Koonap Karoo Basin Cape Fold Belt Fm
Koonap Fm	Waterford Fm	Waterford Karoo Basin Cape Fold Belt Fm	Fort Brown Fm	Fort Brown Karoo Basin Cape Fold Belt Fm	Beaufort Gr
Ripon Karoo Basin Cape Fold Belt Fm	Collingham Fm	Collingham Karoo Basin Cape Fold Belt Fm	Whitehill Fm	Whitehill Karoo Basin Cape Fold Belt Fm	Ripon Fm
Tiguentourine Fezzan Basin Fm	Ecca Gr	Prince Albert Fm	Prince Albert Karoo Basin Cape Fold Belt Fm	Tiguentourine Fm	Continental Posttassilian Cyrenaica Basin Gr
Dwyka Gr	Dembaba Fm	Dimbabah Fezzan Basin Fm	El Adeb Larache Fm	Illizi Carb F Fm	Dwyka Karoo Basin Cape Fold Belt Gr
Ataqa Fm	Illizi Carb E Fm	Oubarakat Fm	Assed Jeffar Fm	Illizi Carb F Fm	Assedjefar Fezzan Basin Fm
Dome Of Collenia Beds Fezzan Basin Fm	Illizi Carb C Fm	Issendjel Fm	Illizi Carb B Fm	Illizi Carb A Fm	Illizi Carb D Fm
Mrar Fm	Sbaa Fm	Um Bogma Fm	Gara Mas Melouki Fm	Illizi Dev F2 Fm	Marar Fezzan Basin Fm
Illizi Dev C2 Fm	Aouinet Ouenine Fm	Witpoort Fm	Witteburg Gr	Witpoort Karoo Basin Cape Fold Belt Fm	Tahara Fm
					Illizi Dev F3 Fm

