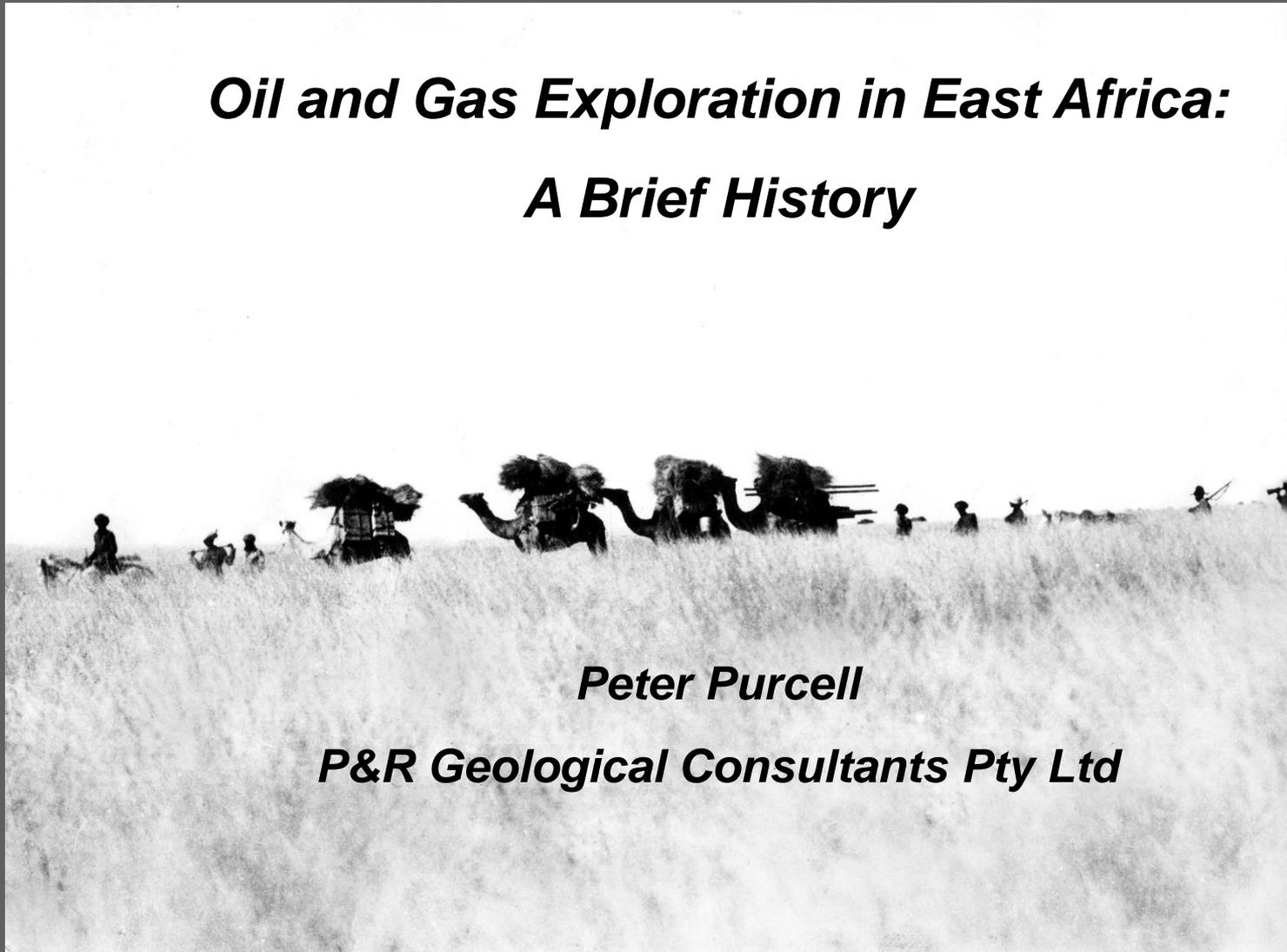


***Oil and Gas Exploration in East Africa:
A Brief History***



Peter Purcell

P&R Geological Consultants Pty Ltd



East Africa Rift
(courtesy of Tullow Oil)

Estimated resource discovered 2006-2013

- 3 - 4 billion barrels
- >200 Tcf



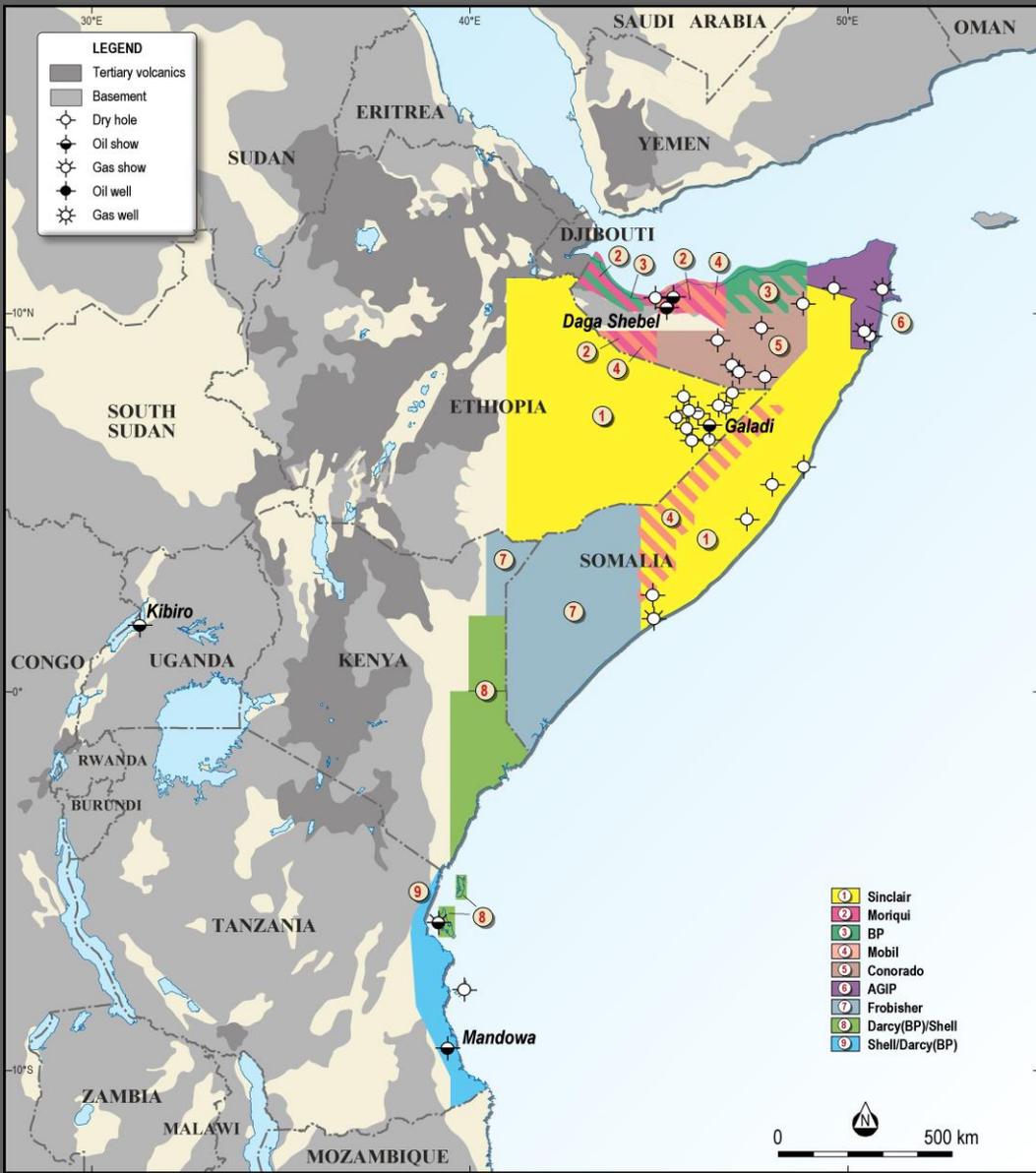
Deep water Tanzania

- Introduction
- Exploration history
- Company activity
- Drilling statistics
- Challenges



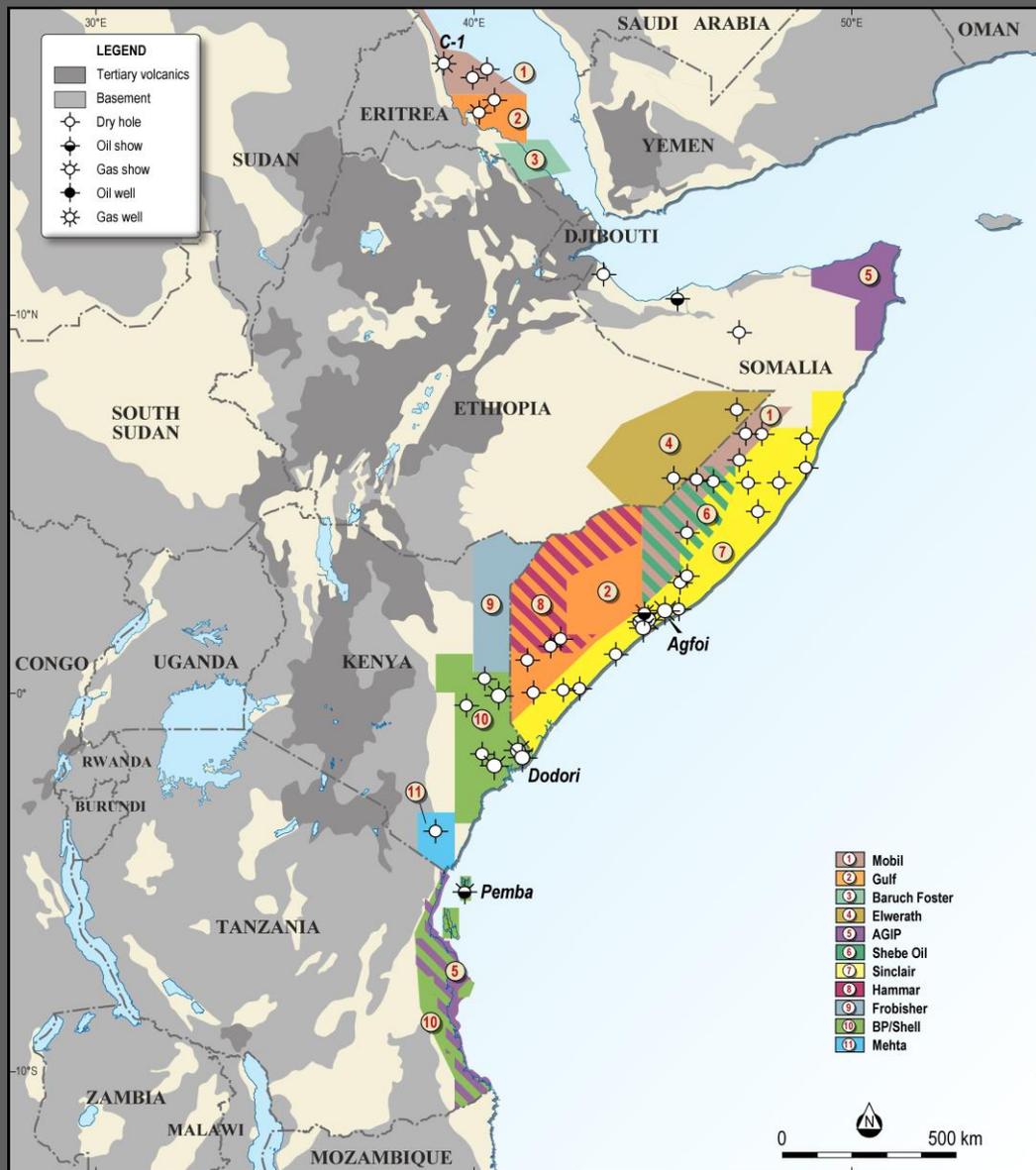
*Dudley Expedition to Abyssinia,
1920/1*

Exploration permits and wells, 1950s



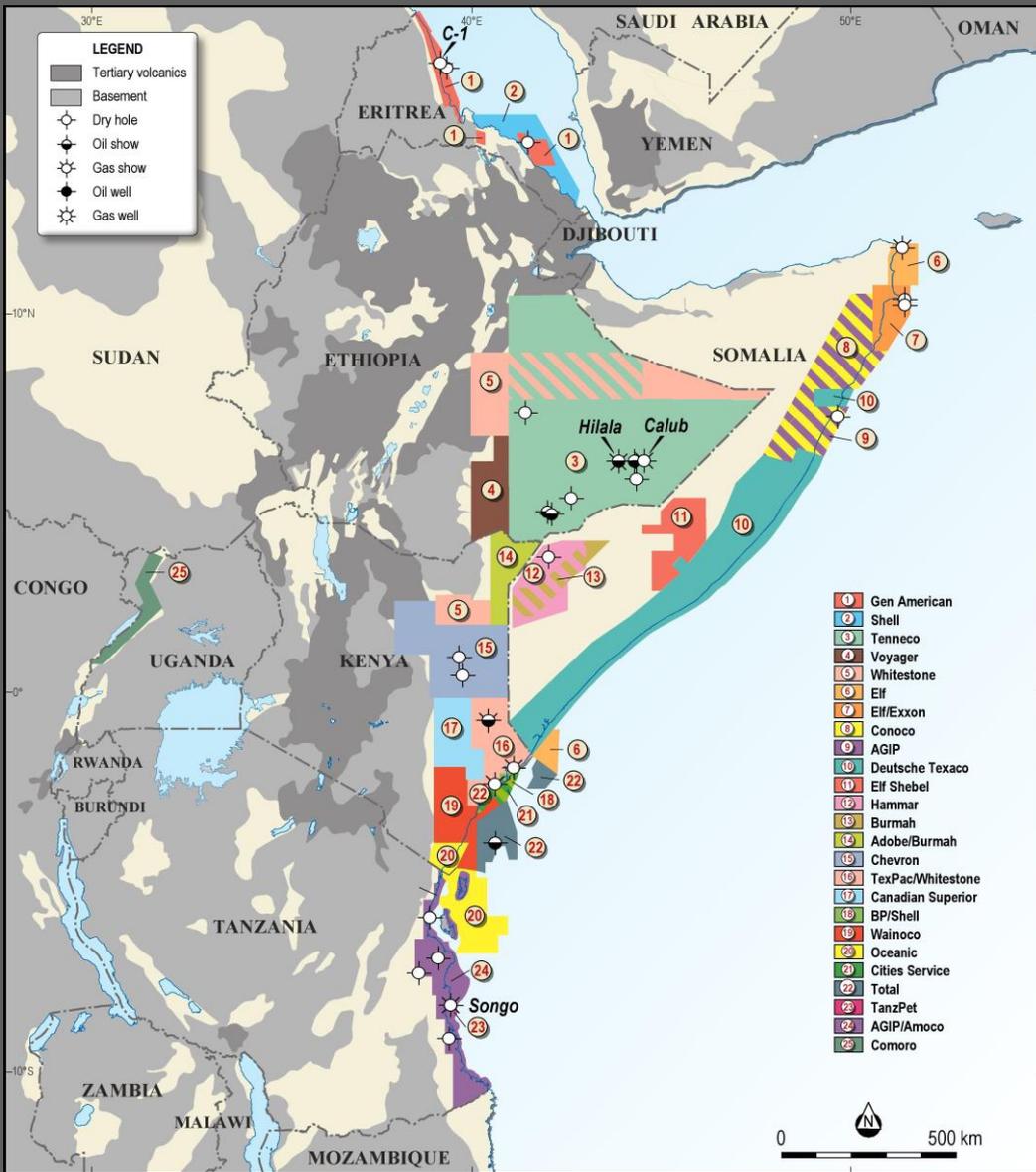
BP drilling site. Kenya
 (©BP plc. Courtesy of BP Archive)

Exploration permits and wells, 1960s



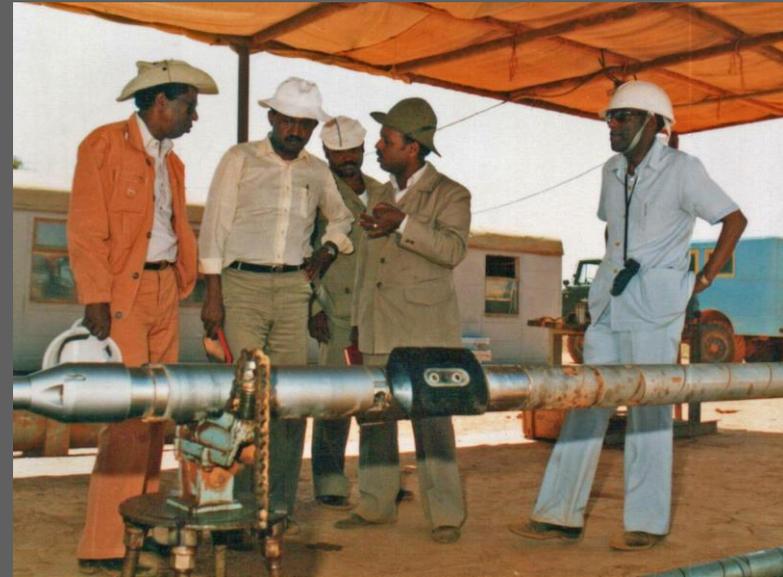
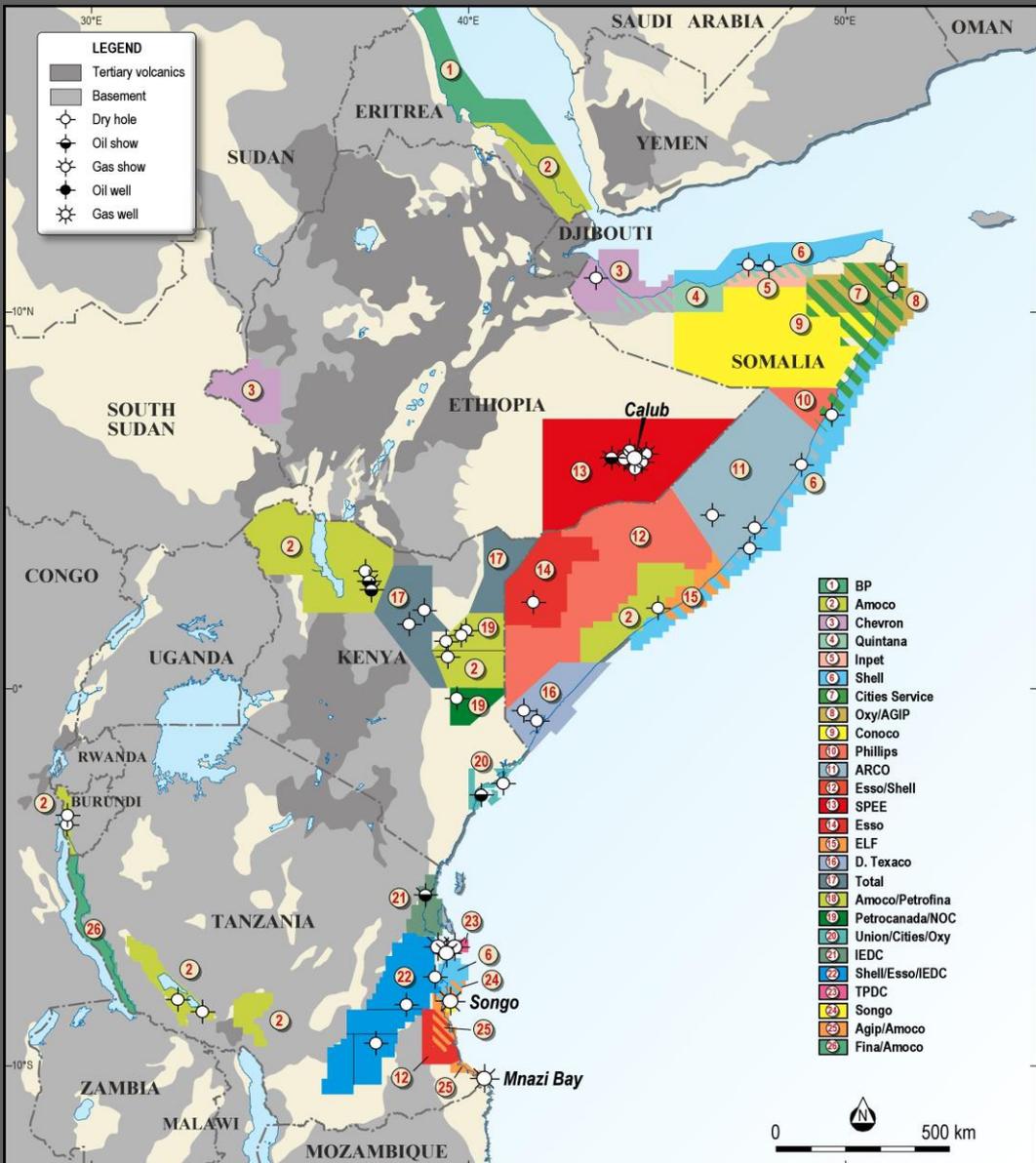
Elwerath seismic crew, Ethiopia, c1964

Exploration permits and wells, 1970s



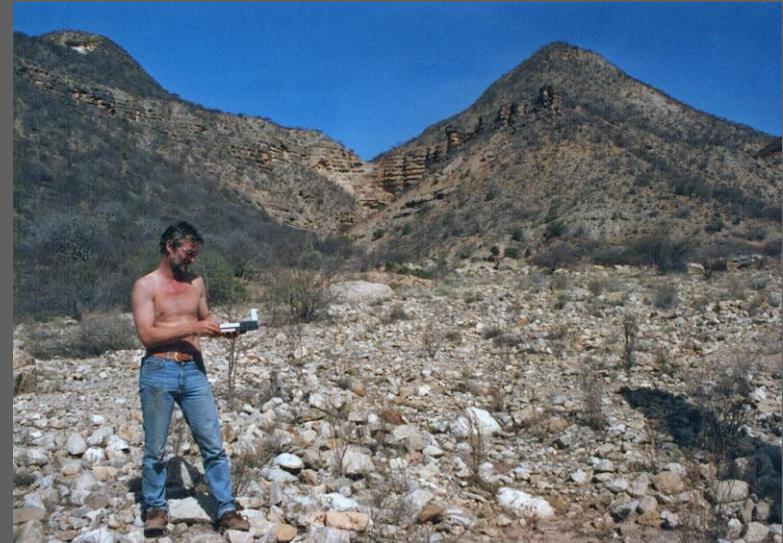
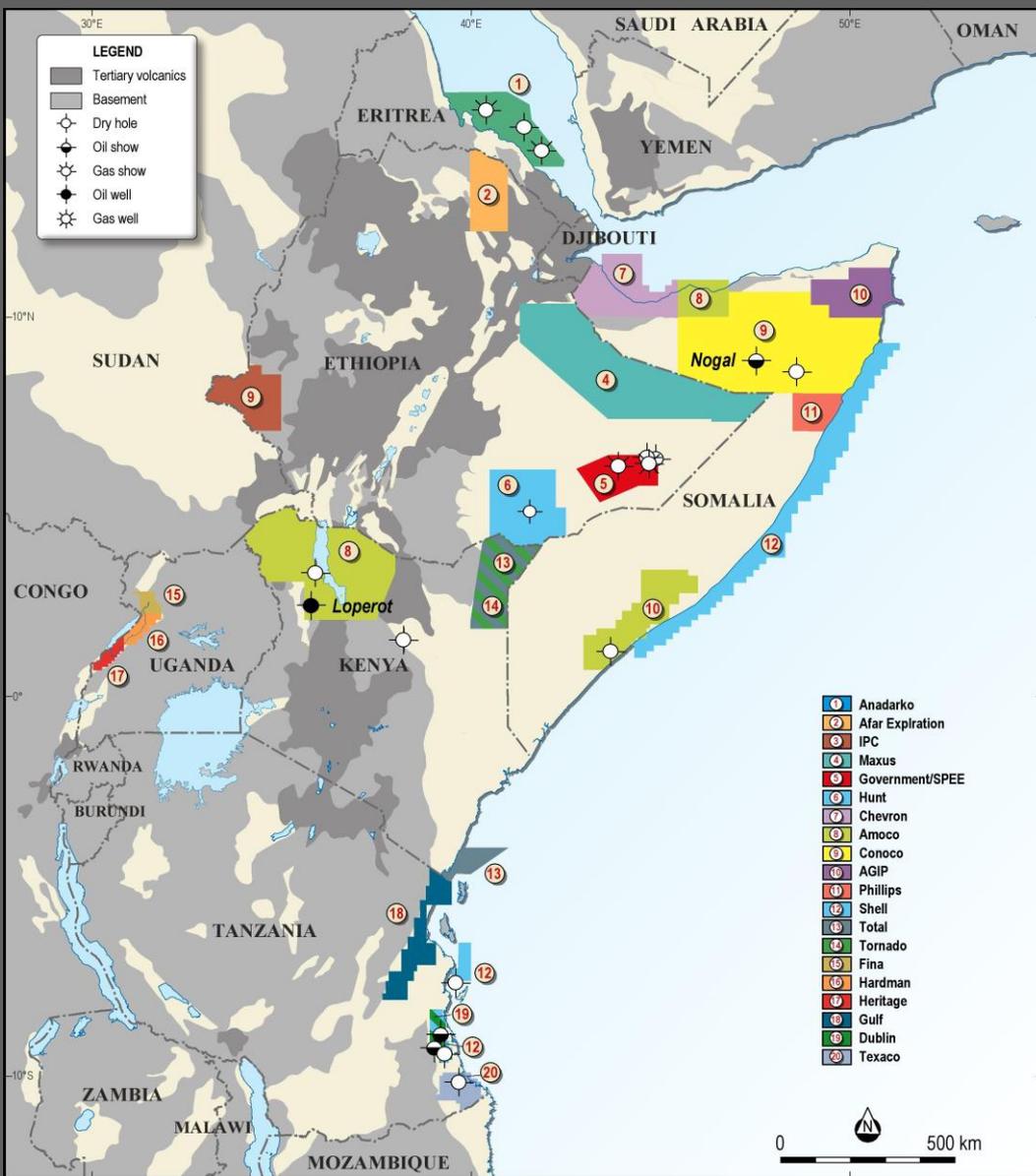
Emperor Haile Selassie at Tenneco's Calub-1 gas discovery, 1973

Exploration permits and wells, 1980s



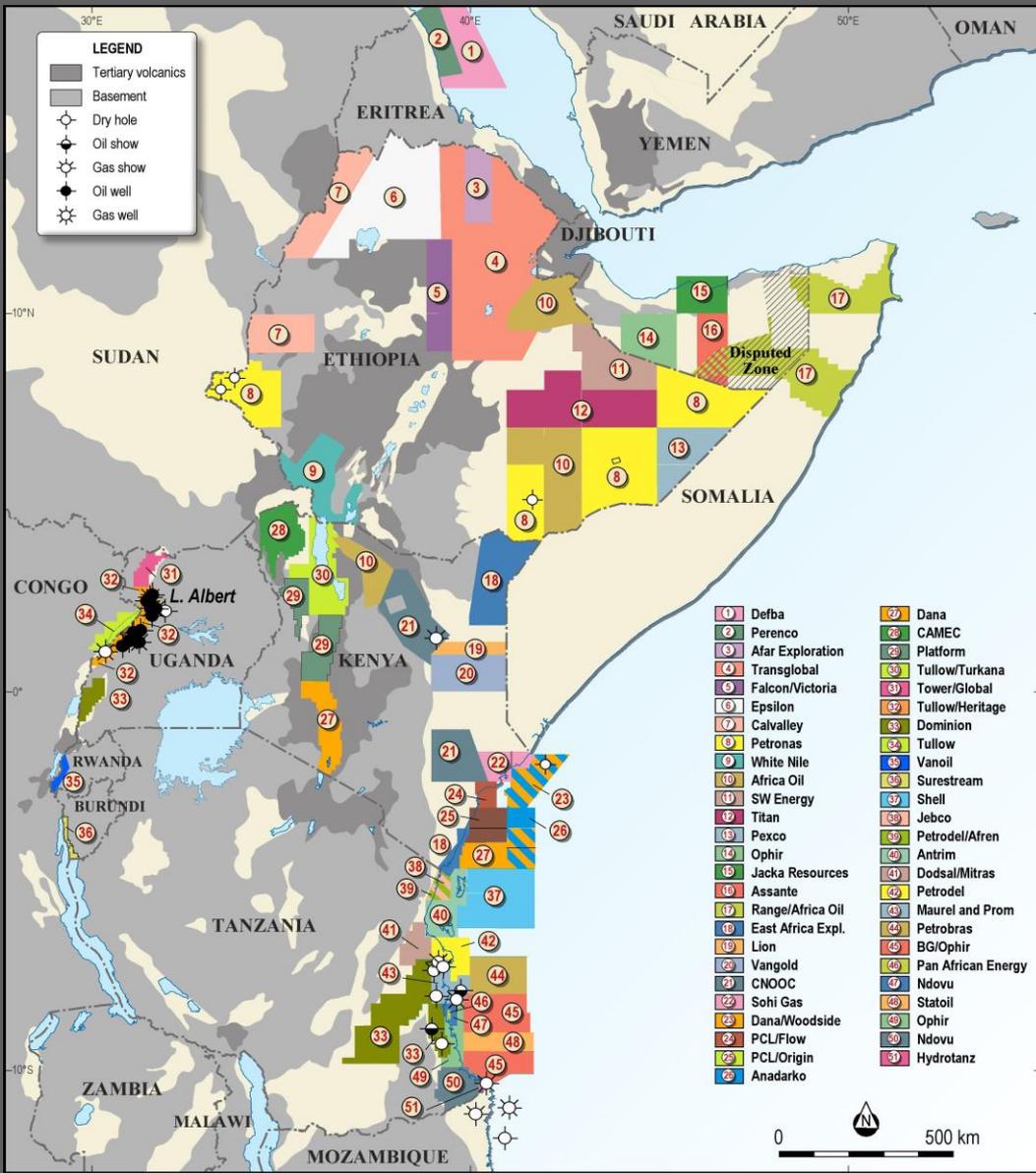
SPEE drilling site, Ethiopia, 1980s

Exploration permits and wells, 1990s



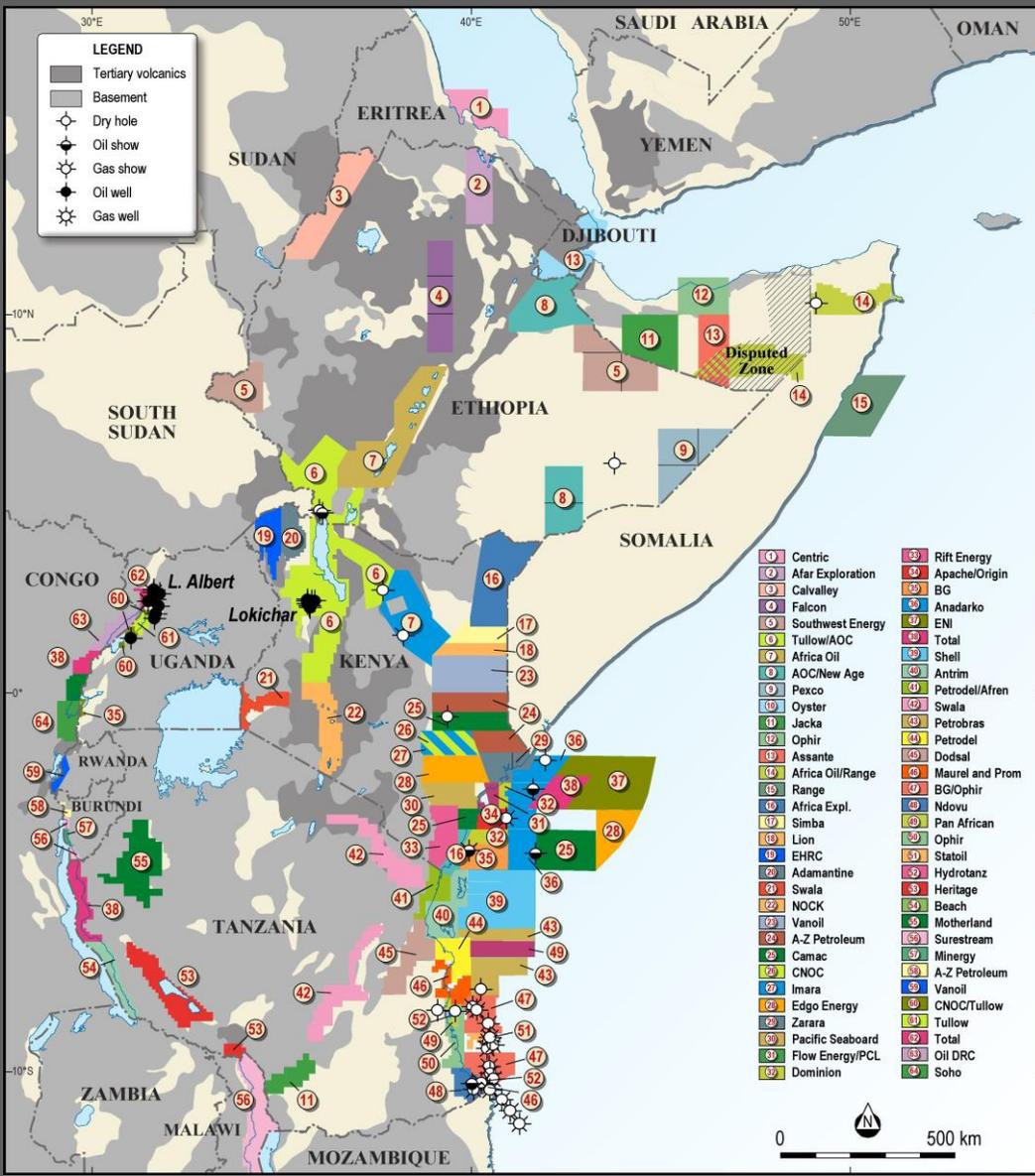
Hunt Oil geologist, Ethiopia, 1991

Exploration permits and wells, 2000s



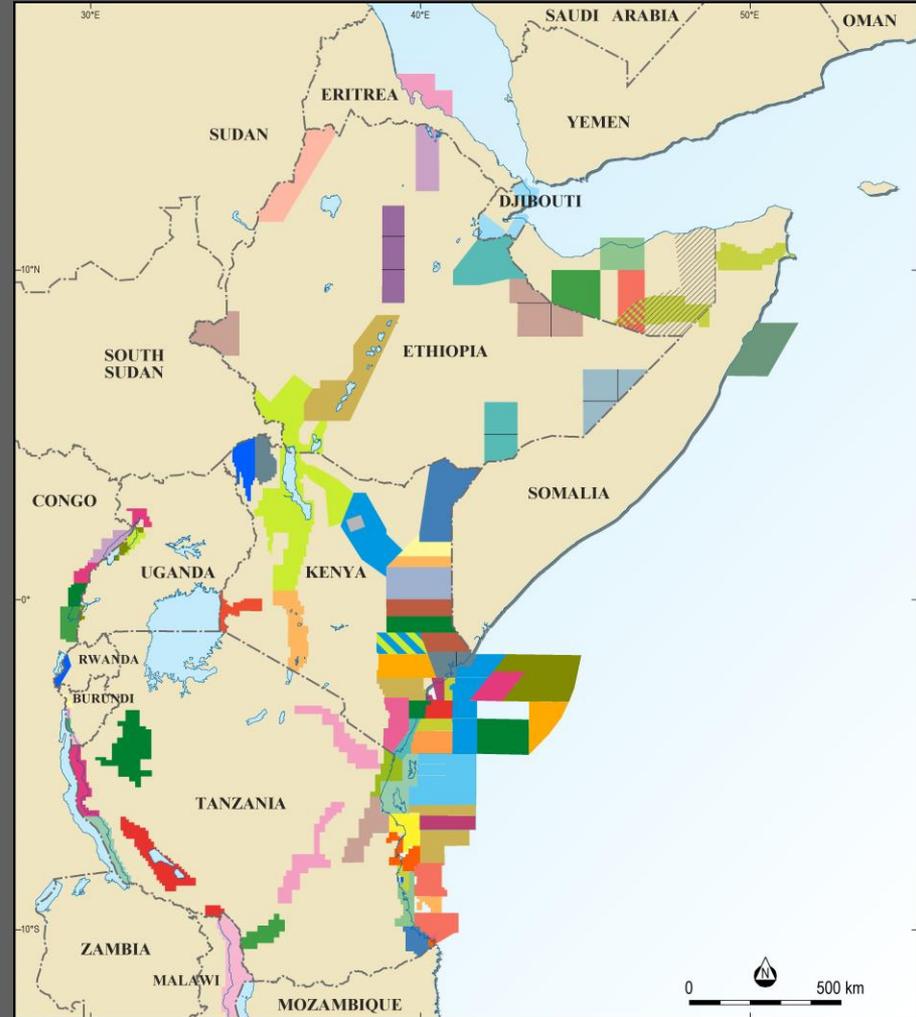
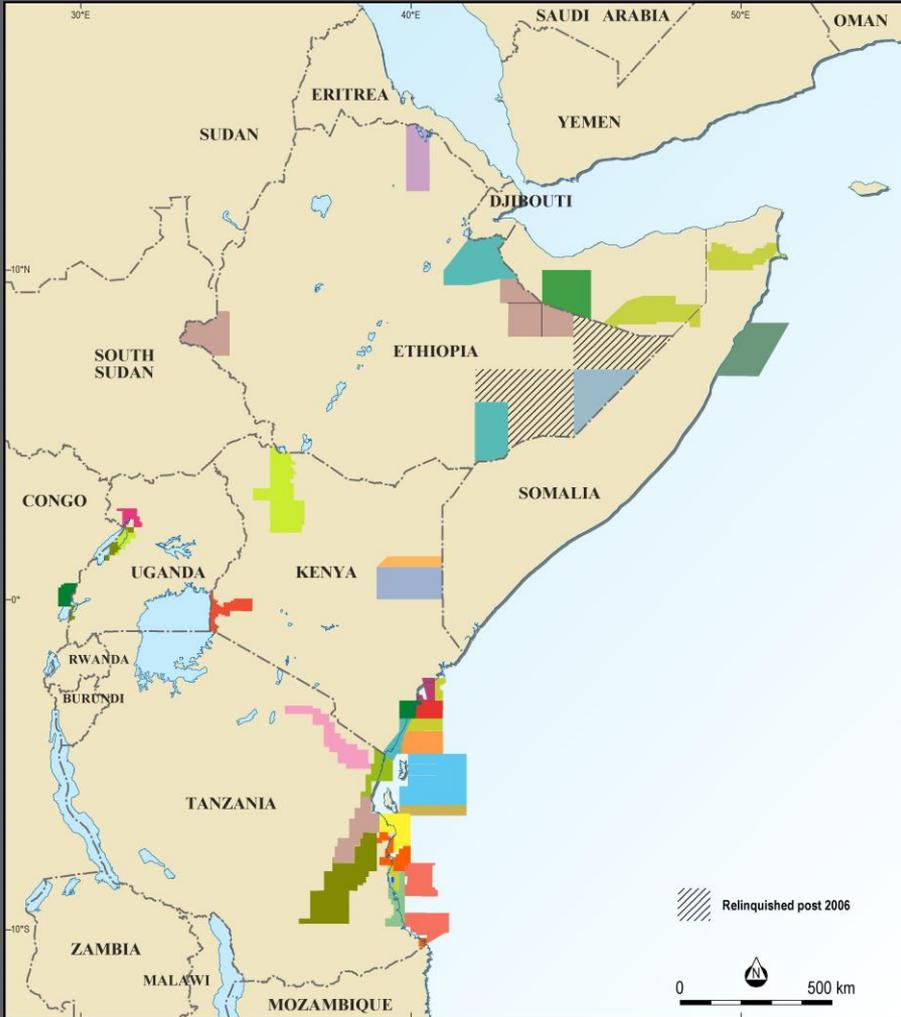
Tullow drilling site, Lake Albert, Uganda (courtesy of Tullow Oil)

Exploration permits and wells, 2010s

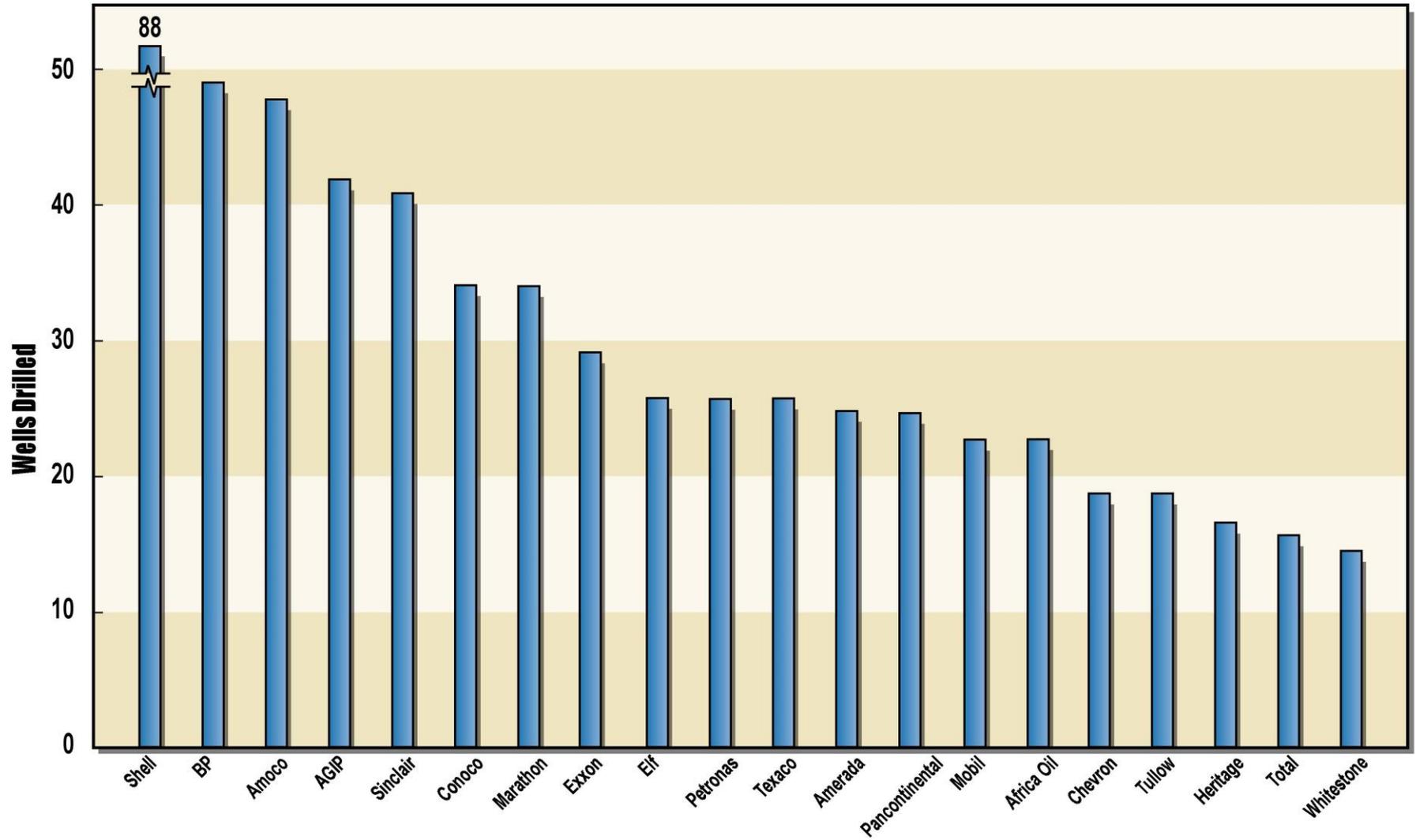


BG/Ophir's Ngisi-1 well, Tanzania

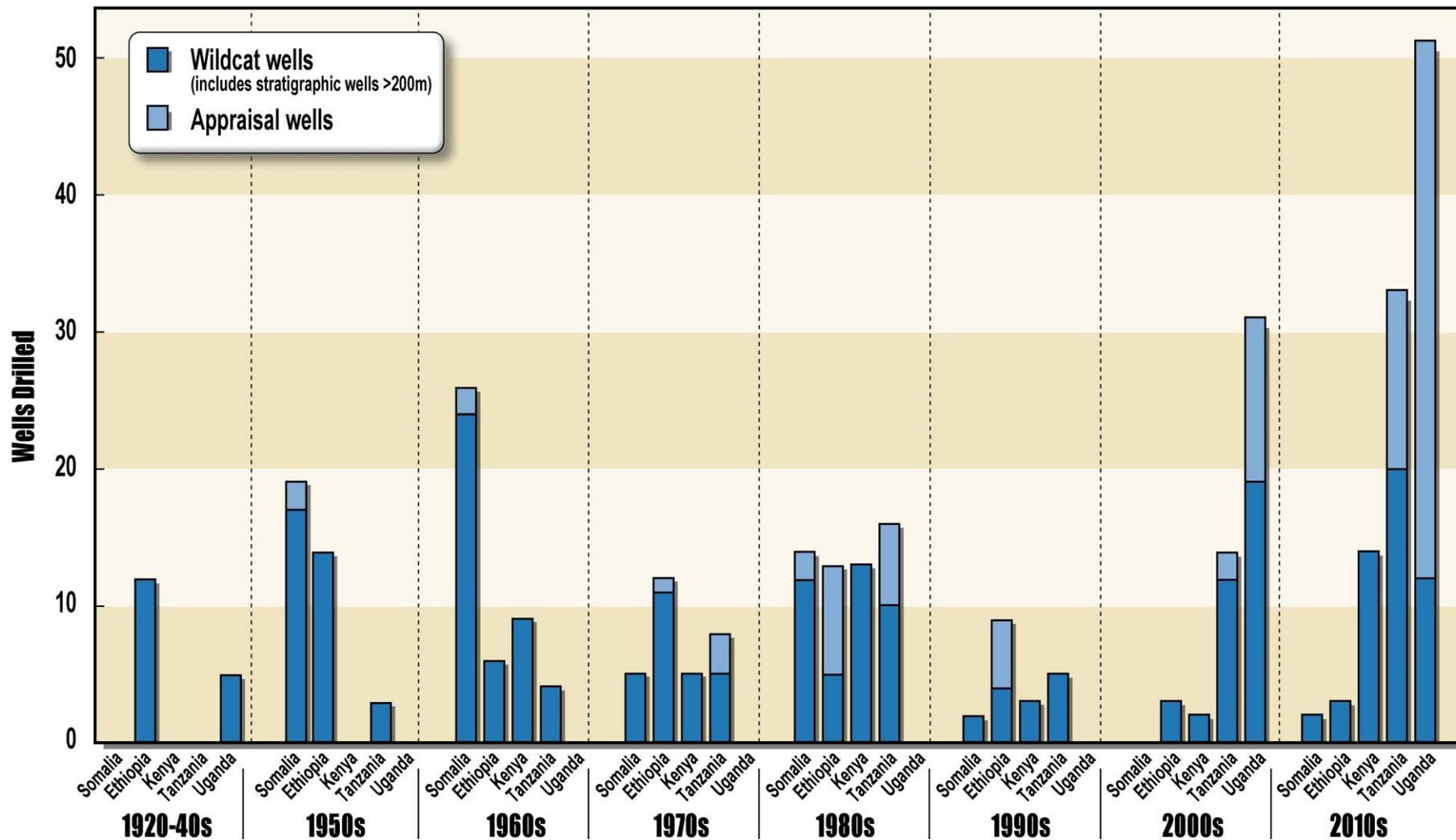
Exploration permits and wells 2006 and 2012



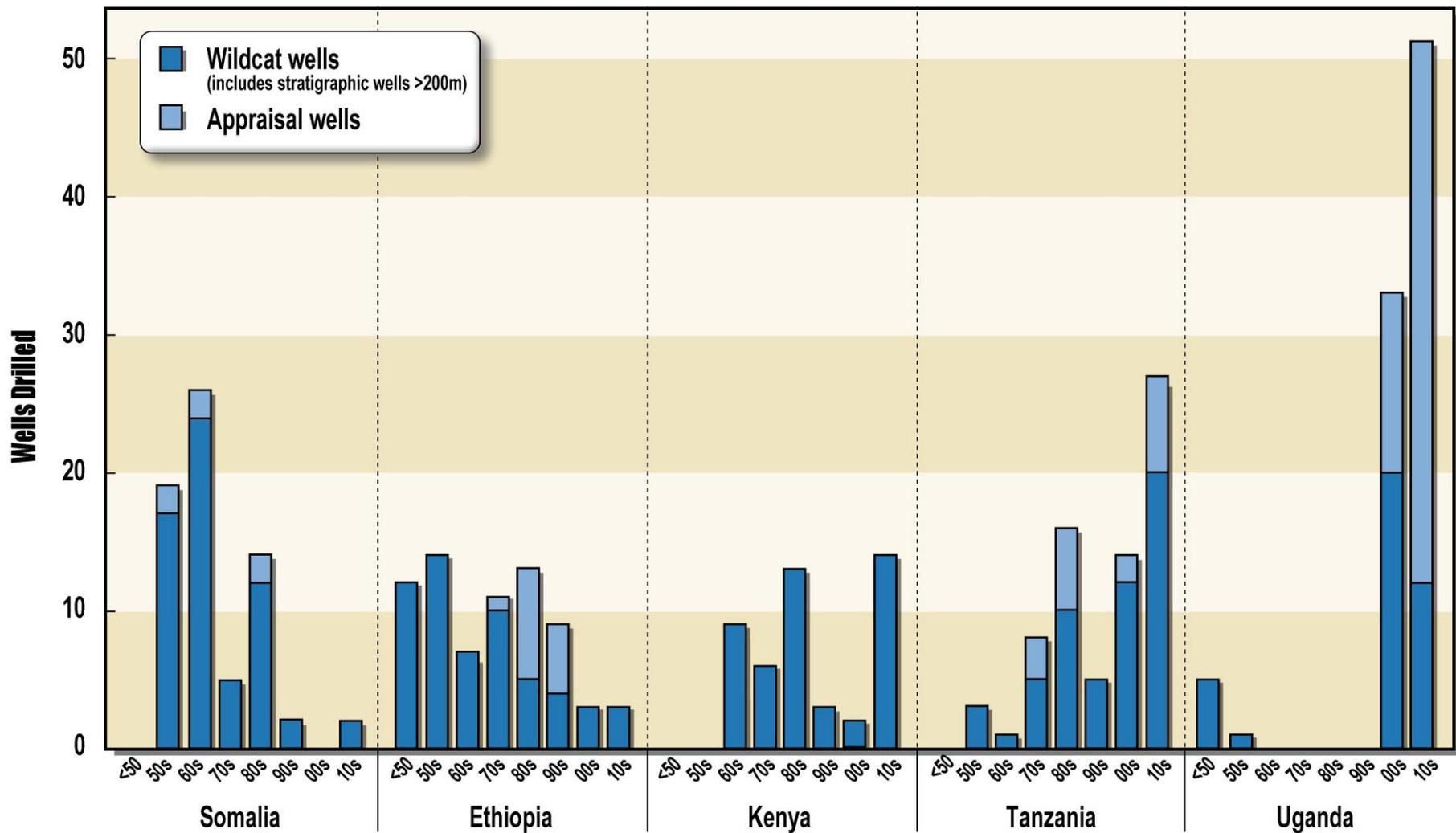
Company exploration permit-years in East Africa 1950-2010



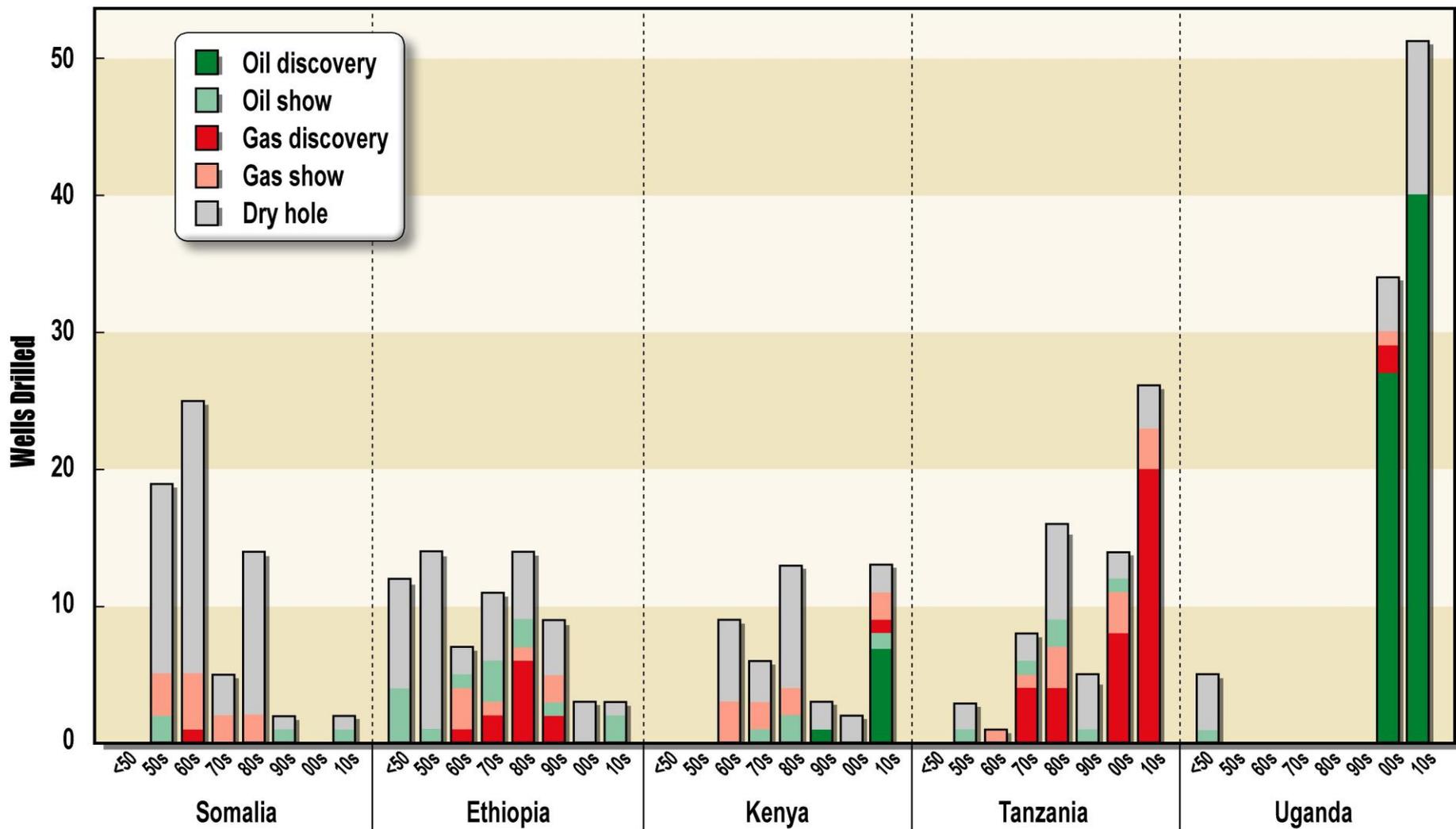
Drilling activity by decade, 1950s -2010s



Drilling activity by country, 1950s -2010s

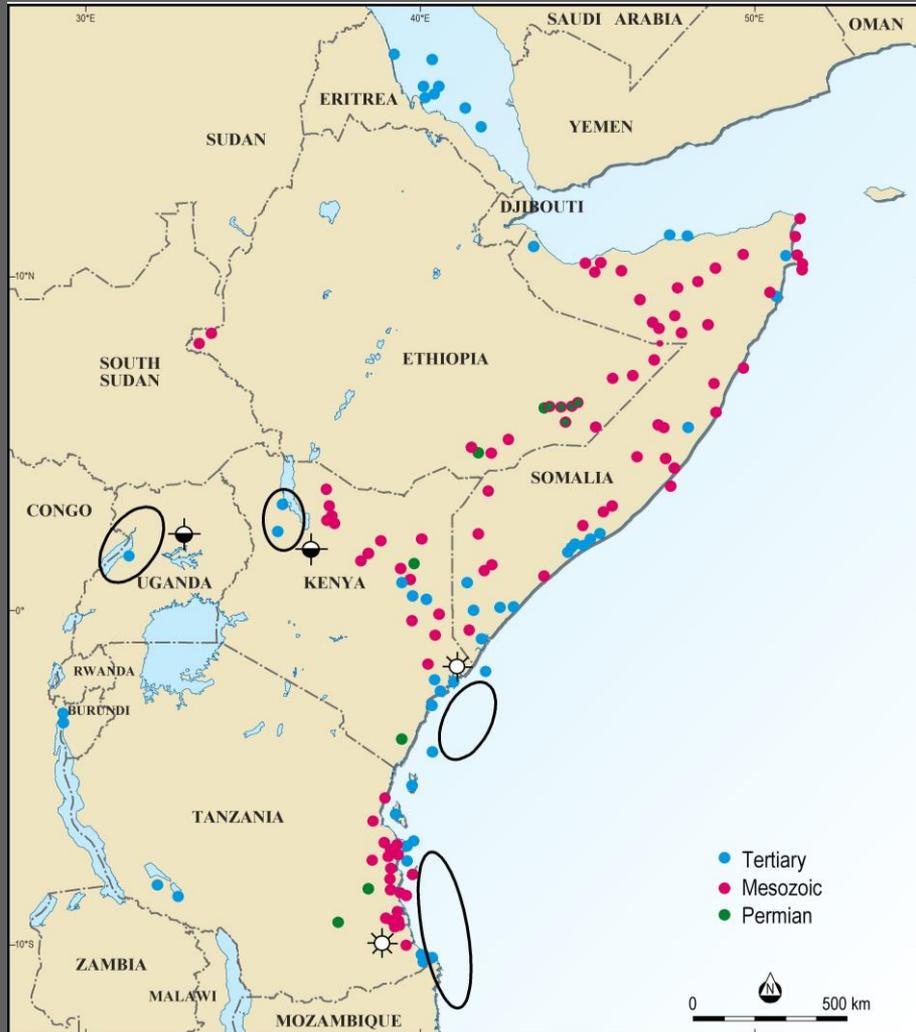


Drilling results by country, 1950s -2010s

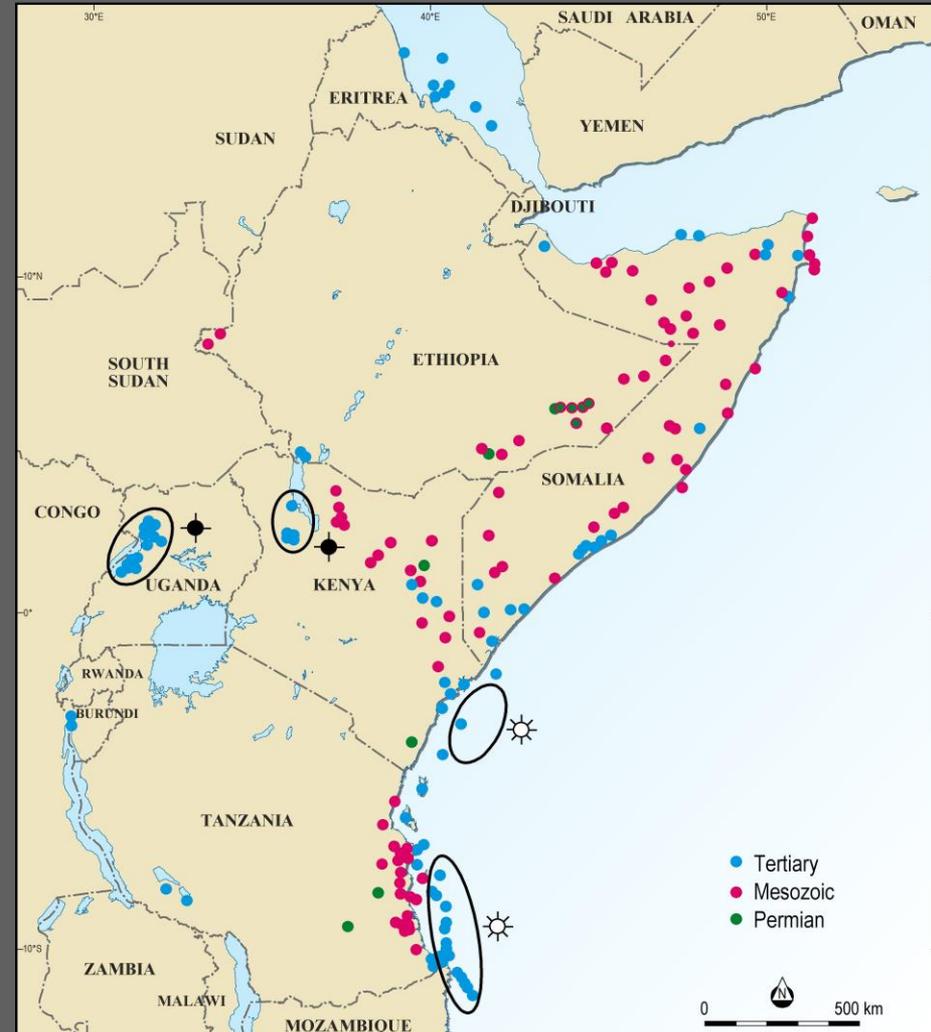


Age and location of main target

P&R

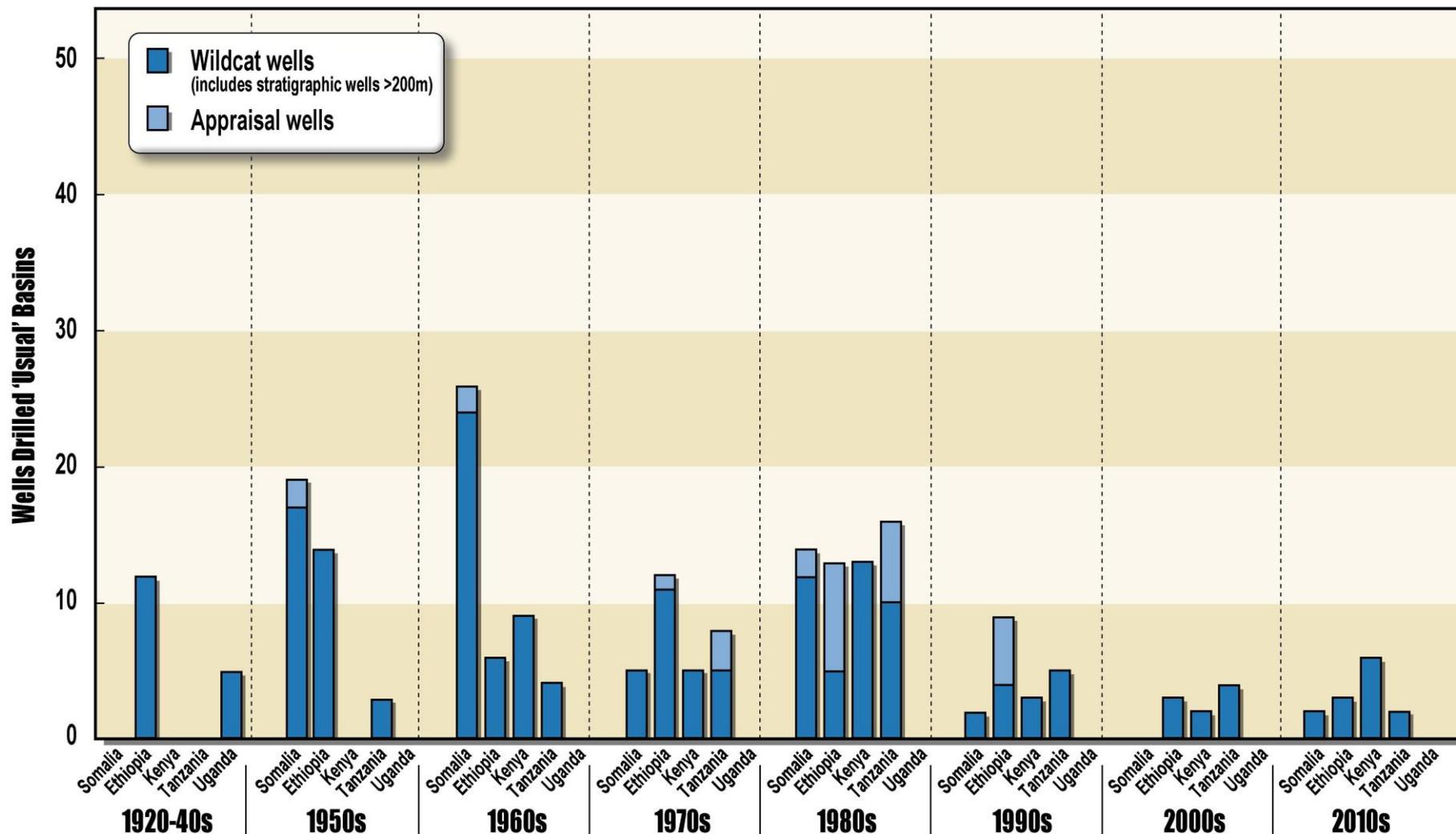


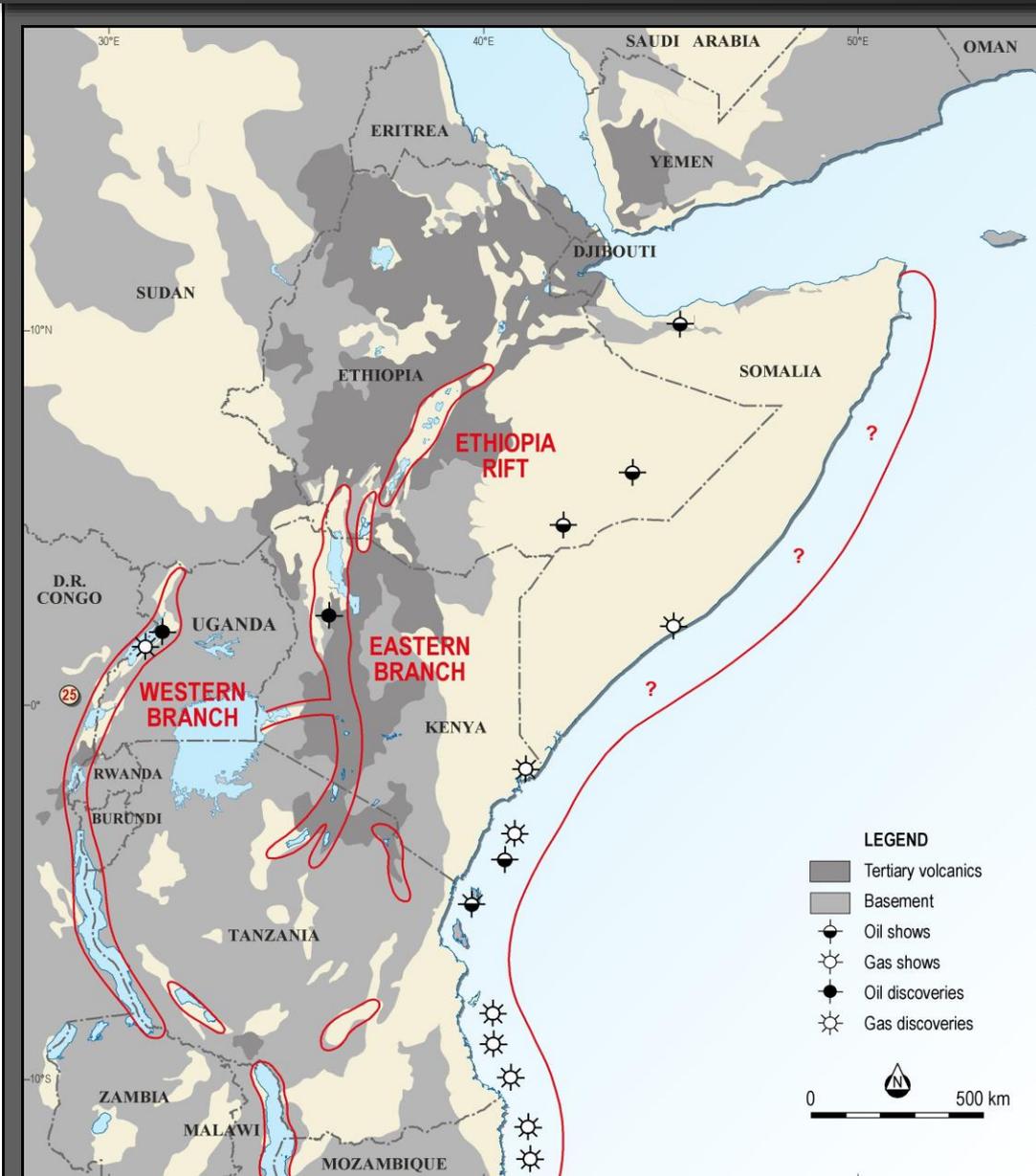
2006



2013

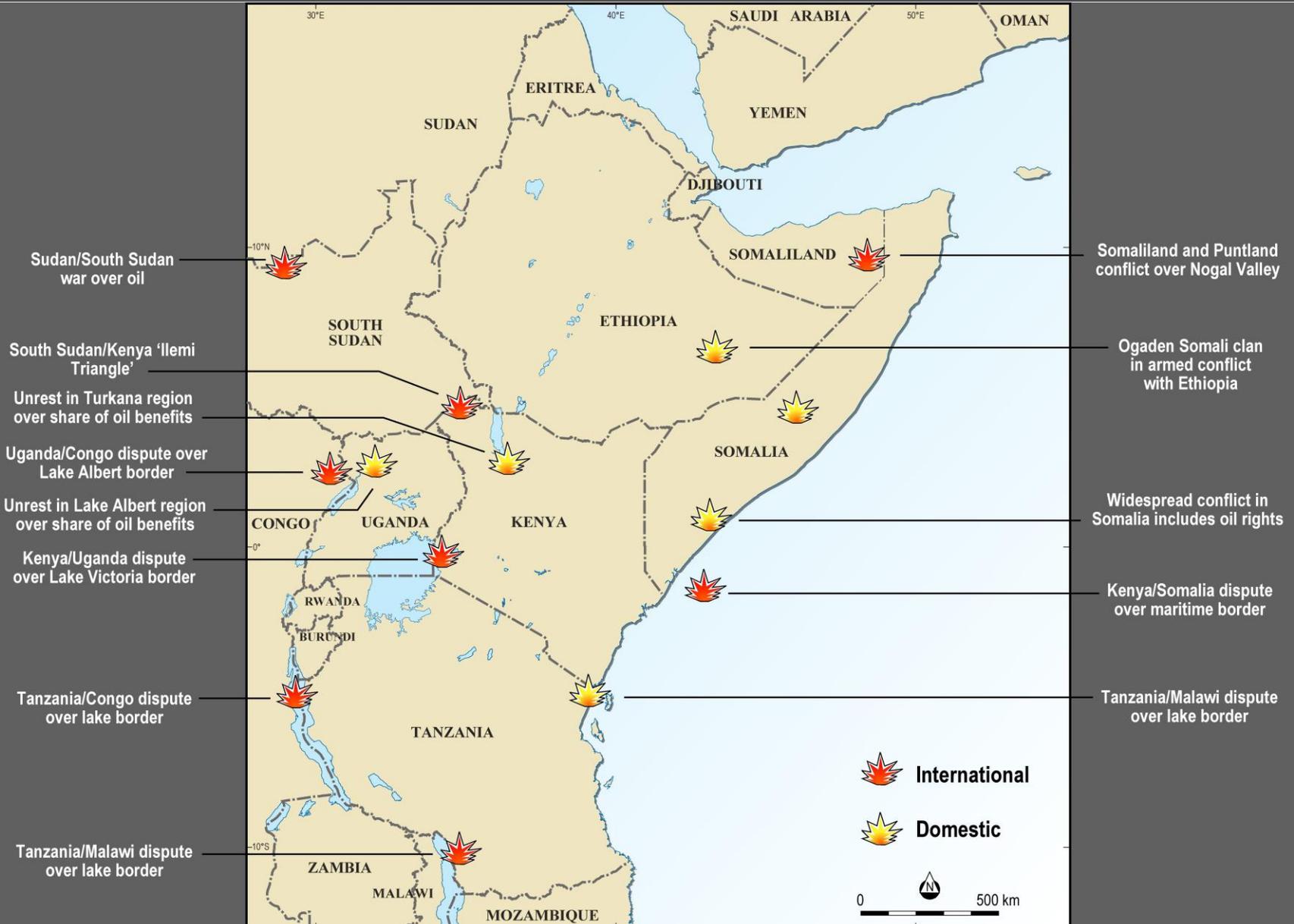
Drilling activity 1950 - 2013, excluding recent discovery areas





- Early results must be carefully considered, especially where there are seeps and shows
- Other basins of the East Africa Rift might also host large oilfields, especially the Western Branch
- Portions of the more volcanogenic Eastern Branch are also prospective
- Offshore Somalia, along trend with the giant gas province, has good potential
- Other basins in East Africa are not upgraded, only those which are geologically analogous.

Conflict areas in East Africa



Sometimes the past does look like another country:

Ethiopian Airforce officers and Elwerath staff rest in the shade of their aircraft in the Ogaden, circa 1962

