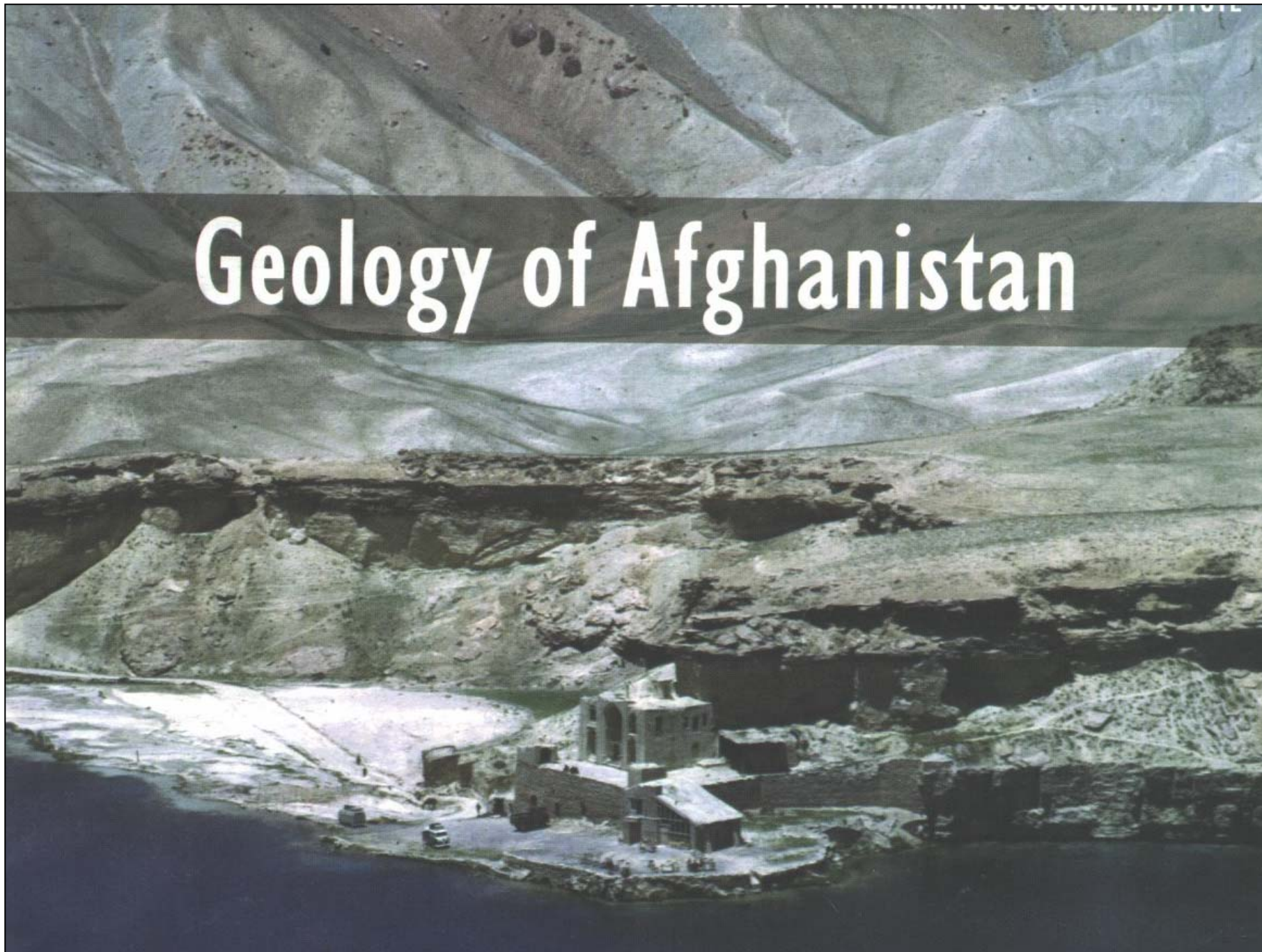


# Geology of Afghanistan



# Afghanistan

## Borders

- Pakistan: 2,430km
- Tajikistan: 1,206km
- Iran: 936km
- Turkmenistan: 744km
- Uzbekistan: 137km
- China: 76km



# Background Information

- **Largest Cities**

| <b><u>City</u></b> | <b><u>Population Estimated</u></b> |
|--------------------|------------------------------------|
| • Kabul (capital)  | 2,142,3002002                      |
| • Qandahar         | 339,2002002                        |
| • Mazer-e-Sharif   | 239,8002002                        |

- **Key Data**

- **Region:** Asia
- **Population:** 24,405,000 (estimated)
- **Area Total:** 647,500 km<sup>2</sup>
- **Coast Line:** Landlocked

# Afghanis

- **Ethnic Divisions**

- Pashtun 38%
- Tajiks 25%
- Hazara 19%
- Other 7%
- Uzbek 6%
- Turkmen 2%
- Qizilbash 1%

- **Religions**

- Sunni Muslim 84%
- Shi`a Muslim 15%
- Other 1%



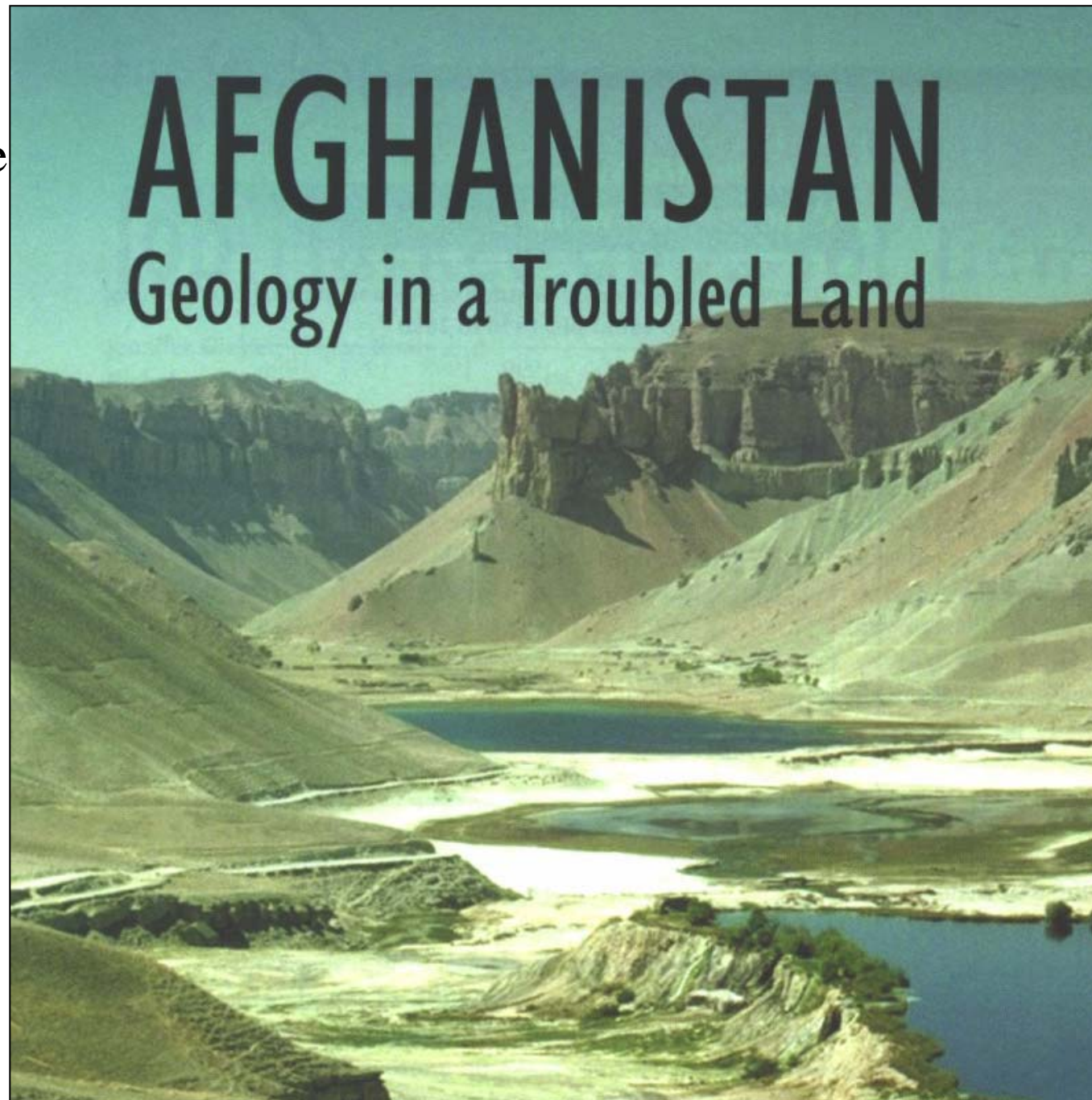
# More Key Data

- **Languages:**
- Pashtu
- Afghan Persian
- Turkic Languages
- 30 minor languages
- **Currency:** 1 afghani (AF) = 100 puls
- **Holiday:** Independence Day, 19 August
- **Climate** : arid to semiarid
- Kabul
  - **January:** 27°F
  - **July:** 76°F
- **Annual Rainfall:** 13"
- Cold winters and hot summers
- Similar to Denver, CO

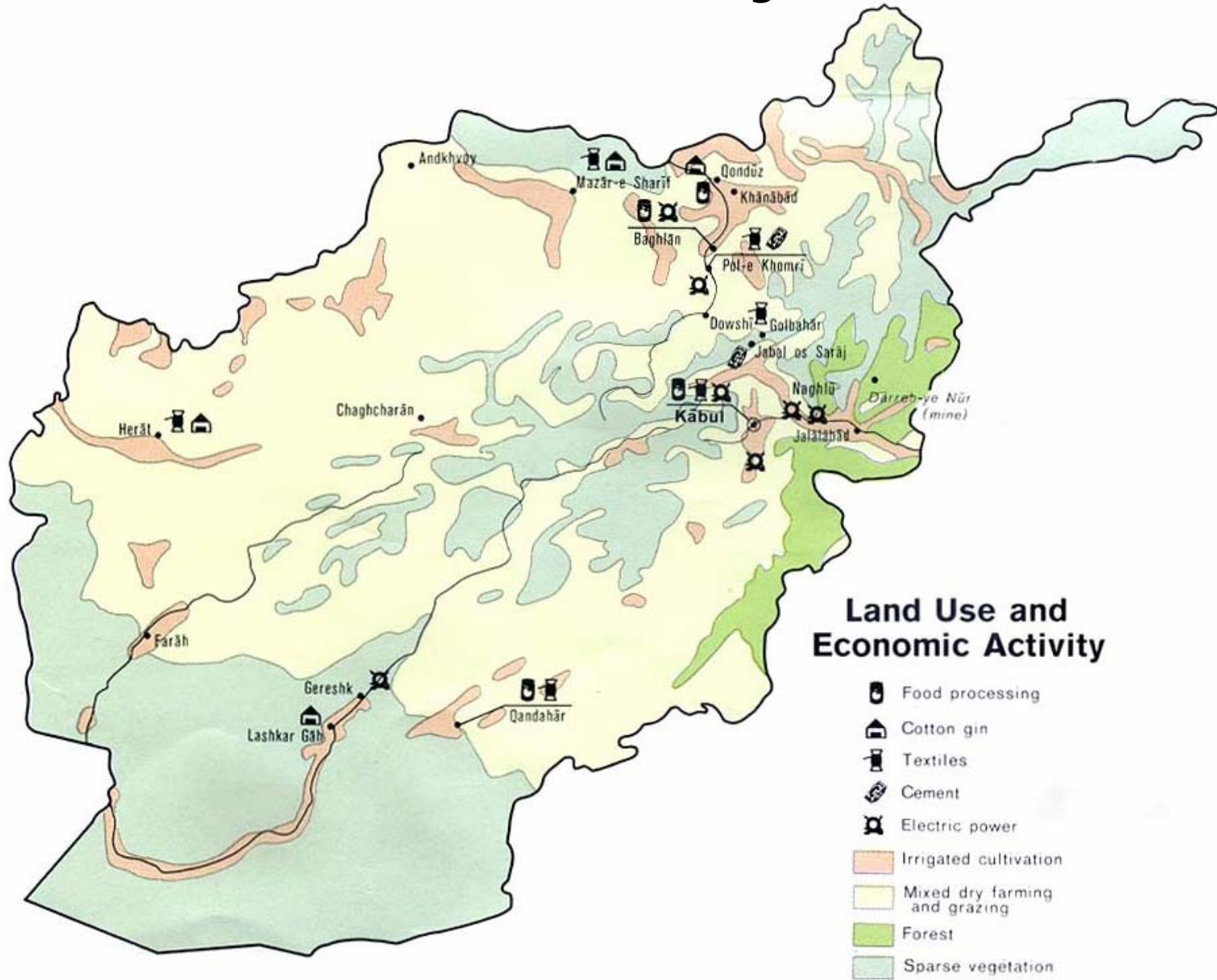




- Isolationism
- Russia's influence
- Outdated data
- Mining
- Key rock types

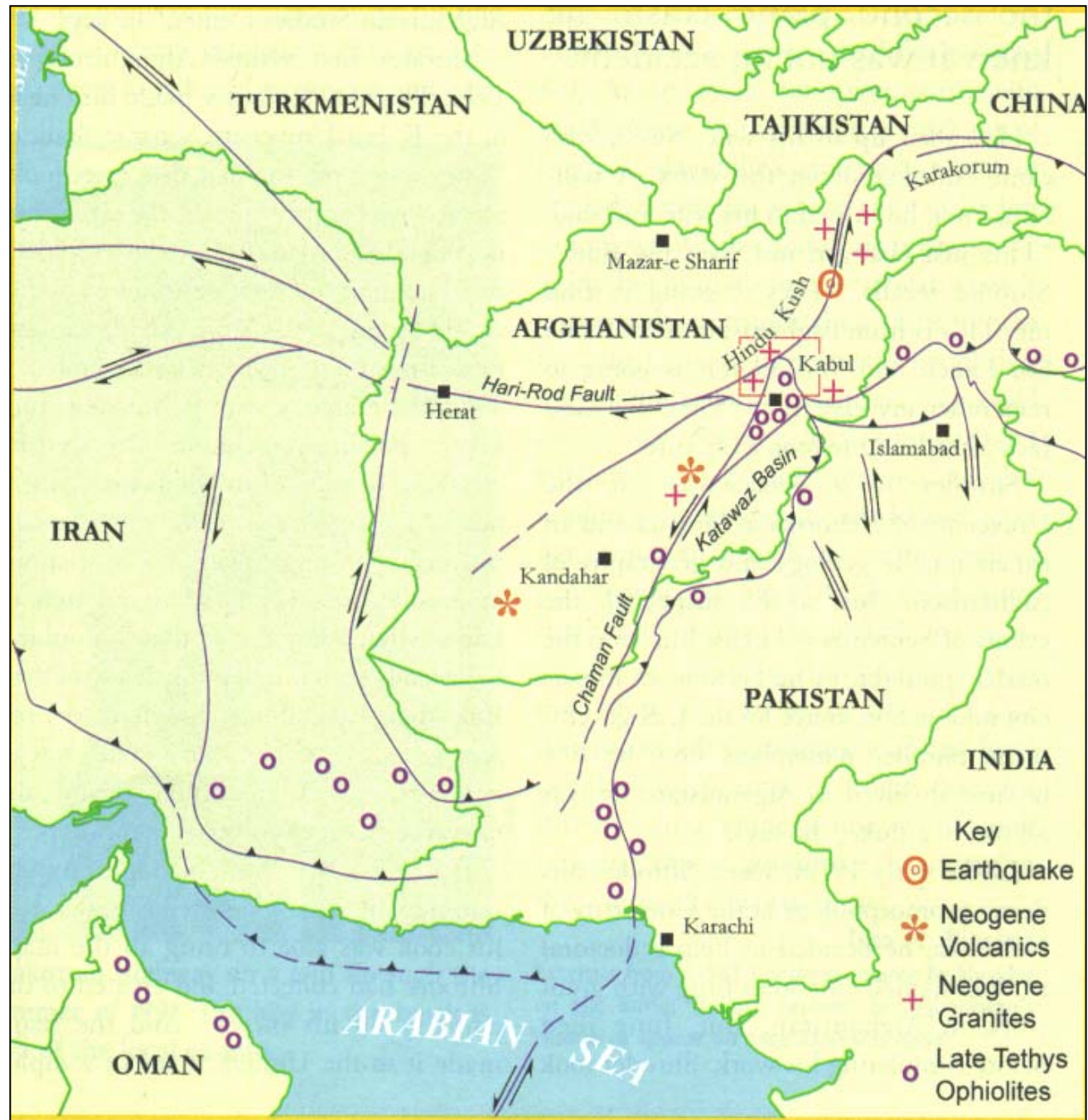


# -Fuel Resources mostly in North



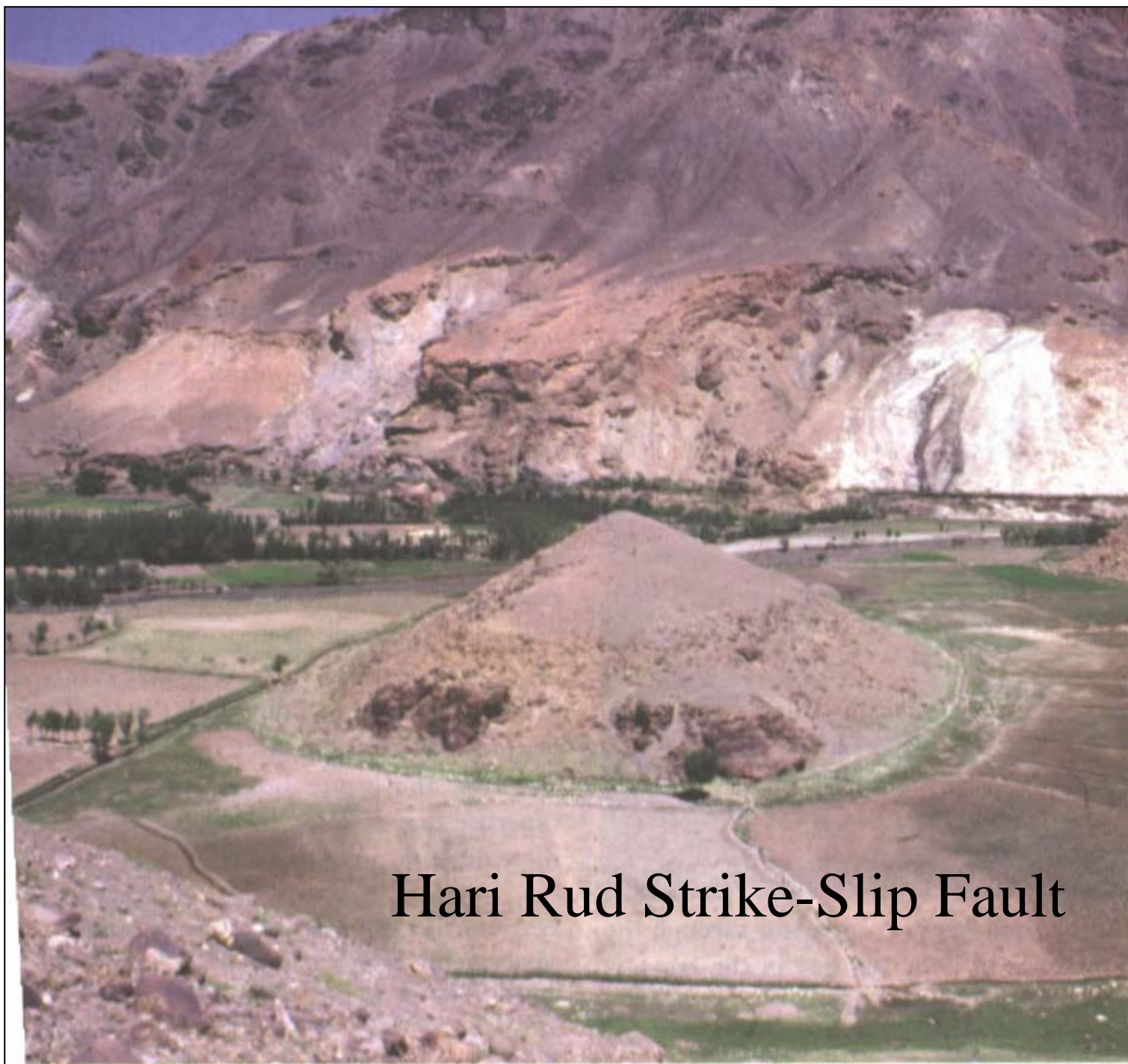


- Tectonic compression zone, formed with Himalayas
- Many Gas Pockets mostly in Jurassic, some in the Cretaceous
- Few Oil Traps in Neogene and Paleogene Beds
- Stable since Mesozoic



Sandstone Bluffs  
typify the Central Region



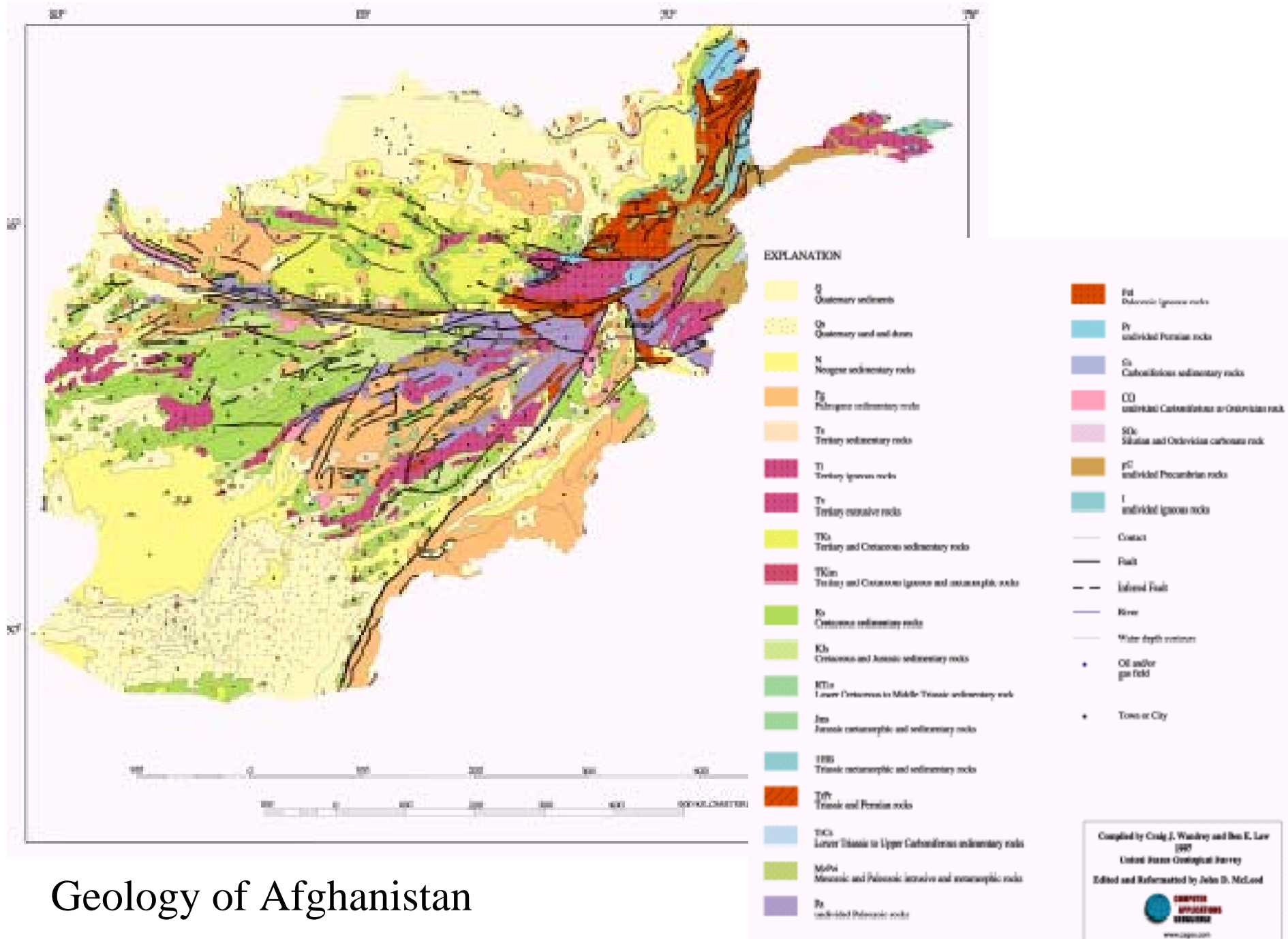


Hari Rud Strike-Slip Fault

## Aerial Photo of Northern Kabul Region

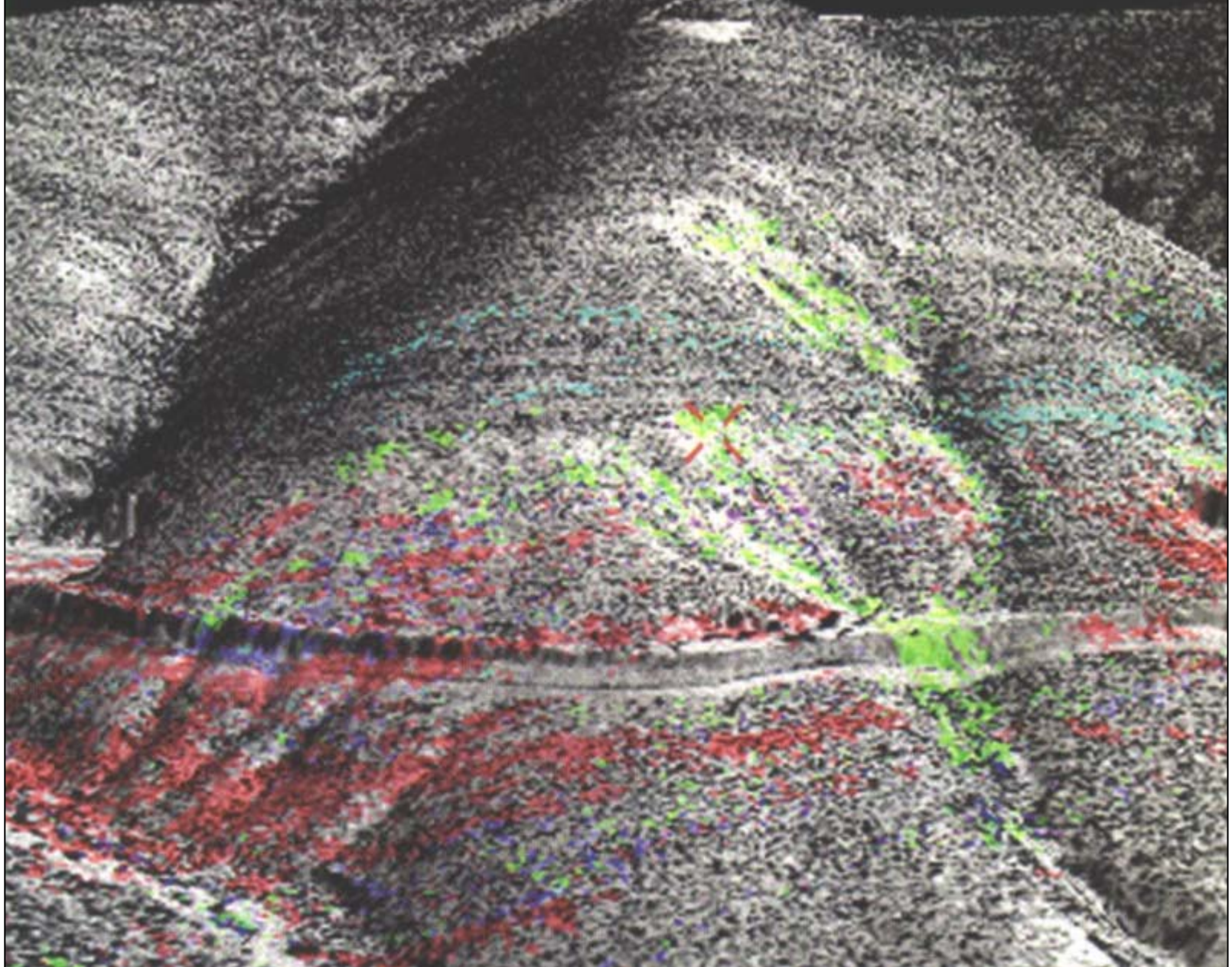


-Mountains surrounding river valley with alluvial vegetated area at valley end



# Geology of Afghanistan

# Simulated Hyperspectral Classification of Surface Materials



# References

- Schindler, J. Stephen. Geotimes, “Afghanistan, Geology in a Troubled Land.” February 2002, p14-18.
- [www.countrywatch.com](http://www.countrywatch.com) (maps and population statistics online).
- Arnold, Anthony. Afghanistan: The Soviet invasion in perspective. Hoover Institution Press, Stanford University, 1985.
- Collins, Joseph J. The Soviet Invasion of Afghanistan. Lexington Books, 1986.

# References

- Fletcher, Arnold. Afghanistan: Highway of Conquest. Cornell University Press, 1965.
- Griffiths, John C. Afghanistan: Key to a Continent. Westview Press, Colorado, 1981.
- Journal of Petroleum Geology: Petroleum Geology of Afghanistan, Part I and II, (Courtesy of Bill Osten, Houston Geological Society): Internet Geology News Letter No. 117, October 1, 2001 No. 118, October 8, 2001.