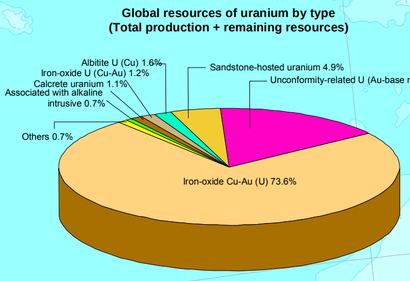

AUSTRALIAN URANIUM RESOURCES

(Sheet 2: Deposit types)

SCALE 1:10 000 000

0 100 200 300 400 500 Kilometres

LAMBERT CONFORMAL CONIC PROJECTION
Central Meridian: 134°E Standard Parallels: 18°S, 36°S
Geocentric Datum of Australia

Types of uranium deposits

Geological age (deposit symbols) is depicted by colour

Cenozoic | Mesozoic | Paleozoic | Proterozoic | Archean

Magmatic - related
- *Associated with alkaline intrusive*
- *Pegmatite U*
- *Carbonatite U*
- *Skarn U*
- *Albitite U (Cu)*

Surface - related
- *Calcrete uranium*

Hybrid
- *Iron-oxide Cu-Au (U)*
- *Iron-oxide U (Cu-Au)*
- *Volcanic U (Mo)*

Basin - related
- *Unconformity-related U (Au-base metals)*
- *Sandstone-hosted uranium*

Main mineralised regions by predominant geological age

Cenozoic | Mesozoic - Cenozoic | Paleozoic | Proterozoic | Archean

Compiled by: A.D. McKay, Y. Miezitis, and S. Jaireth

Cartography by G.A. Young

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This map is based on information compiled from publicly available sources on 96 Australian uranium deposits, including world-class and large deposits. Compilation of data is ongoing

Deposit size is the total tonnage of U_3O_8 in a deposit as estimated by Geoscience Australia. It was derived by summing the aggregate production from a deposit and the current or remaining resources in that deposit

Regional resources are the aggregate of resources in deposits occurring in the region. Regions defined here are based on Geoscience Australia's Georegions arcinfo coverage. Subdivisions of the Lachlan Fold Belt and Yilgarn Craton are based on data from published sources. Yeelirrie, Lake Way and other calcrete deposits have been assigned to Cenozoic paleochannel sediments that overlie the Yilgarn Craton. Mulga Rock deposit has been assigned to Cenozoic paleochannel sediments. Resources for Warrior deposit are assigned to Cenozoic paleochannel sediments that overlie the Gawler Craton as mapped by Rogers (1999). Paleochannels with undefined resources as mapped by Rogers (1999). Resources for Napperby calcrete deposit have been assigned to Cenozoic paleochannel sediments overlying the Arunta Region. Prominent Hill deposit is located in Paleoproterozoic sediments and volcanics of the Gawler Craton. Resources have been allocated to the Gawler Craton. Beverley and Honeymoon sandstone deposits have been assigned to the Frome Embayment sediments.

References: Hou, B., Zang, W., Fabris, A., Keeling, J., Stoian, L and Fairclough, M. (compilers), 2007. CRC LEME, Geological Survey, Primary Industries Resources South Australia. Palaeodrainage and Tertiary Coastal Barriers of South Australia. Digital Geological Map of South Australia, 1:2 000 000 Series (1st Edition).

It is recommended that this map be referred to as: McKay, A.D., Miezitis, Y., Jaireth, S., 2010, *Australian Uranium Resources, May 2010 Edition, (Sheet 2: Deposit types),* 1:10 000 000 scale map, Geoscience Australia, Canberra, Australia

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