

John Warren

Sedimentary Copper: A salty exploration

Most applied courses dealing with the genesis of sedimentary copper mention the import of evaporites In controlling mineralisation. But they don't delve into the why.

We will

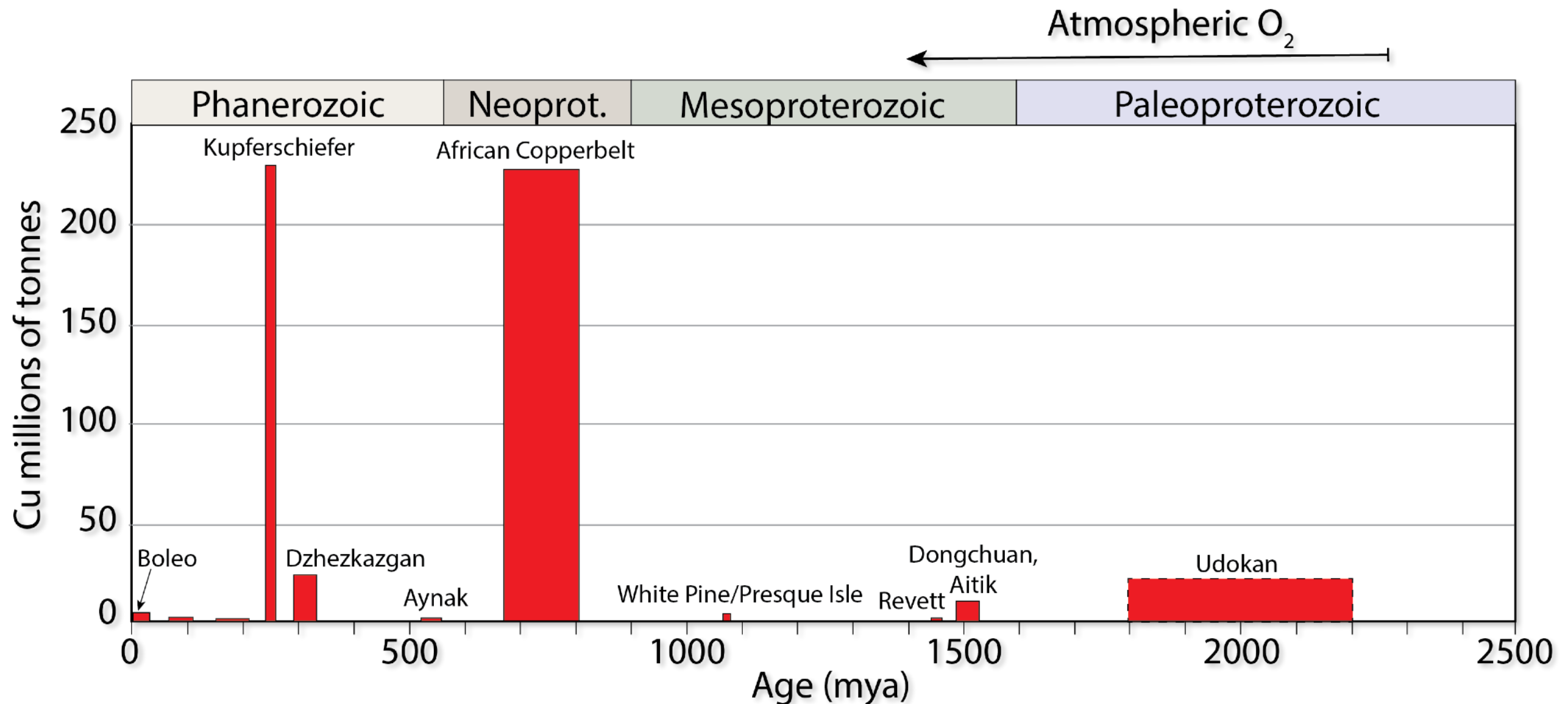
US\$ 495

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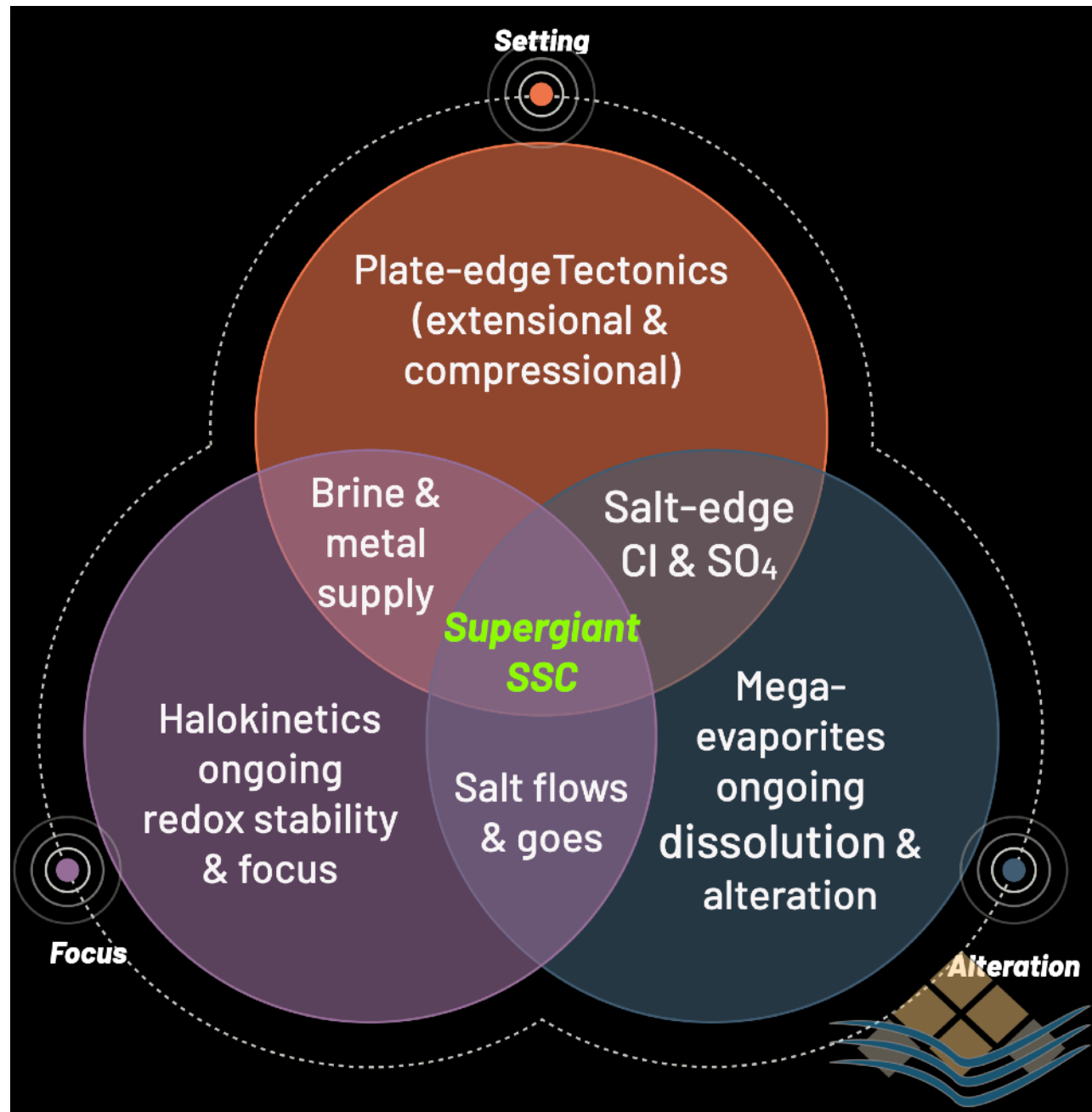
Giant sedimentary Cu - It's all Salty

- All are associated with intracontinental rifts at low-paleolatitudes, under hot, dry climates, but salt is now gone
- All are younger than 2.4 Ga (i.e., post-Great Oxidation Event) suggesting an interplay with atmospheric oxygen
- Larger deposits (>22Mt) have a salt-edge and salt flow focus and are multistage & epigenetic



The salty why

Appropriate positioning of the tectonic plates, the correct chemistry of the salt edge, in combination with a dissolving salt-floored halokinetic salt mass and a redbed source



- Evaporites don't make ore deposits; rather, they focus, stabilise, and enhance the positions and subsurface chemistries that change an otherwise patchy low-volume copper system into a focused region of large-scale epigenetic copper.
- This process is ongoing and happens across the diagenetic and metamorphic realms.
- Our course is all about helping you understand the how, why, and where of this set of related subsurface brine-driven processes.



Course construct

What's in it?

- Backbone of the course is a series of high-quality videos, covering all aspects of large sedimentary copper deposits
- Self-paced and available 24/7
- Interactive online discussion with the instructor is available throughout the course
- A digital copy of Dr Warren's evaporite book is part of the course materials
- Downloads of relevant technical information
- All course material is referenced
- A certificate of completion is issued on your successful completion of the course

Course details

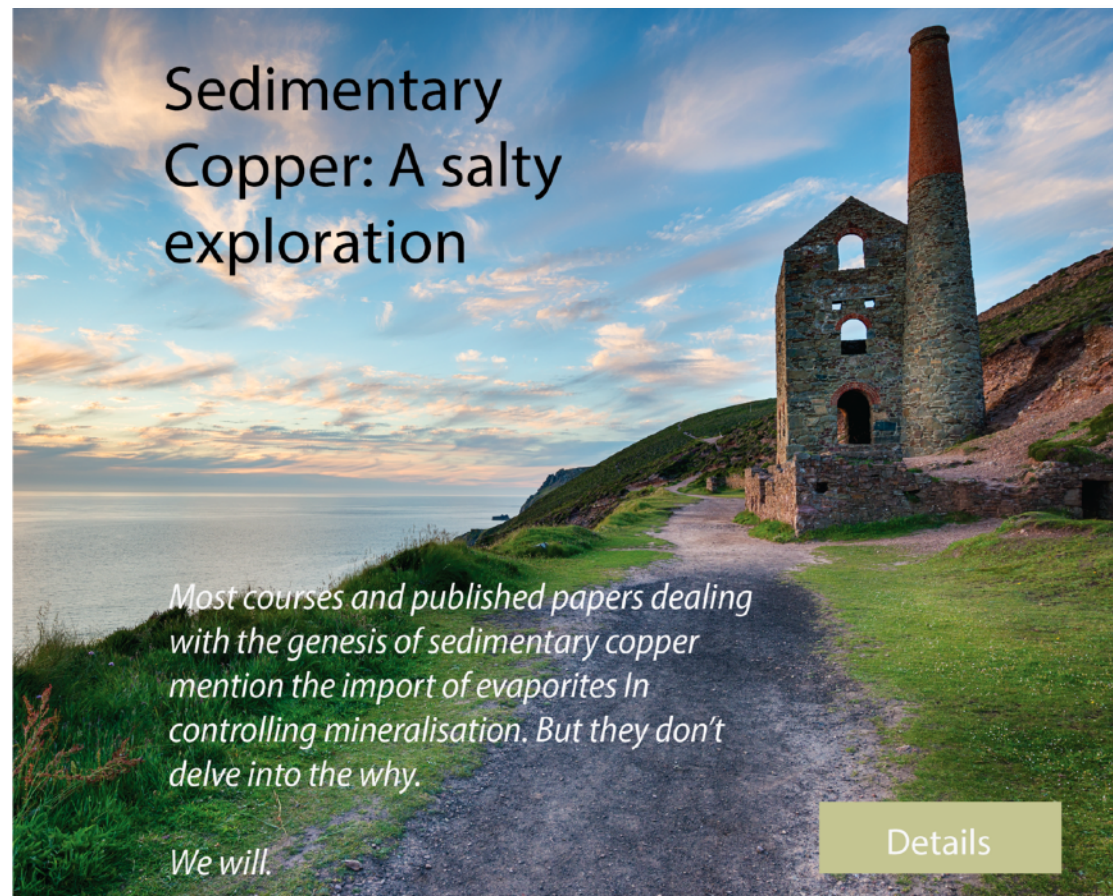
Course topics

Module 1. The where and why of the World's copper resource

Module 2. Copper transport and fixation in a salty diagenetic realm

Module 3. What we know about Stratabound Sedimentary Copper deposits (SSCs)

Module 4. Adding a little salt to the mix



Module 5. Redbeds and evaporites at the plate tectonic scale

Module 6. What happens at a salt edge? Caps and underbelly residues

Module 7 Red Sea Zn-Cu in the Atlantis II deeps - A modern Sedex or MVT or a modern example of a salty ore deposit?

Module 8. Classifying the World's Larger SSCs - Subsalt, Suprasalt and Infrsalt

Module 9. Subsalt Giants and other deposits

Module 10. Suprasalt Sedimentary Copper deposits

Module 11. Intrasalt Copper - African copperbelt deposits

Module 12. Meta-evaporitic stratabound and breccia-hosted copper -Dongchuan region, China

Module 13. Summary and deposit prediction - Why salt is bigger and better

The instructor

John Warren

Training and research experience in saline geosystems, both modern and ancient, with more than 30 years in the industry

Salty expertise across:

- Brine chemistries relevant to copper exploration applications in economic geology
- Rock properties and ore quality issues
- Applied sedimentology, seismic and wireline analysis

[John's Resume](#)

