

# URANIUM EXPLORATION PLANNING, MANAGEMENT AND PRACTICE

(IAEA-TECDOC-2074)

## **CORRIGENDUM**

1. Page 50, Fig. 3.7. The labels of the last three types of rock listed in the right hand column of the legend have been corrected, and the page should be replaced by the page overleaf. These changes have been made in the PDF of the publication that is available for download.

represented include Ace–Fay–Verna and Port Radium, Canada; Shinkolobwe, Democratic Republic of the Congo; Jaduguda, India; Kamyshevoye, Kazakhstan; Schwartzwalder, USA. Within the subtypes there are three classes: monometallic veins; polymetallic veins and marble-hosted phosphate (Fig. 3.7) These deposits are highly variable in terms of size, uranium resources and grade.

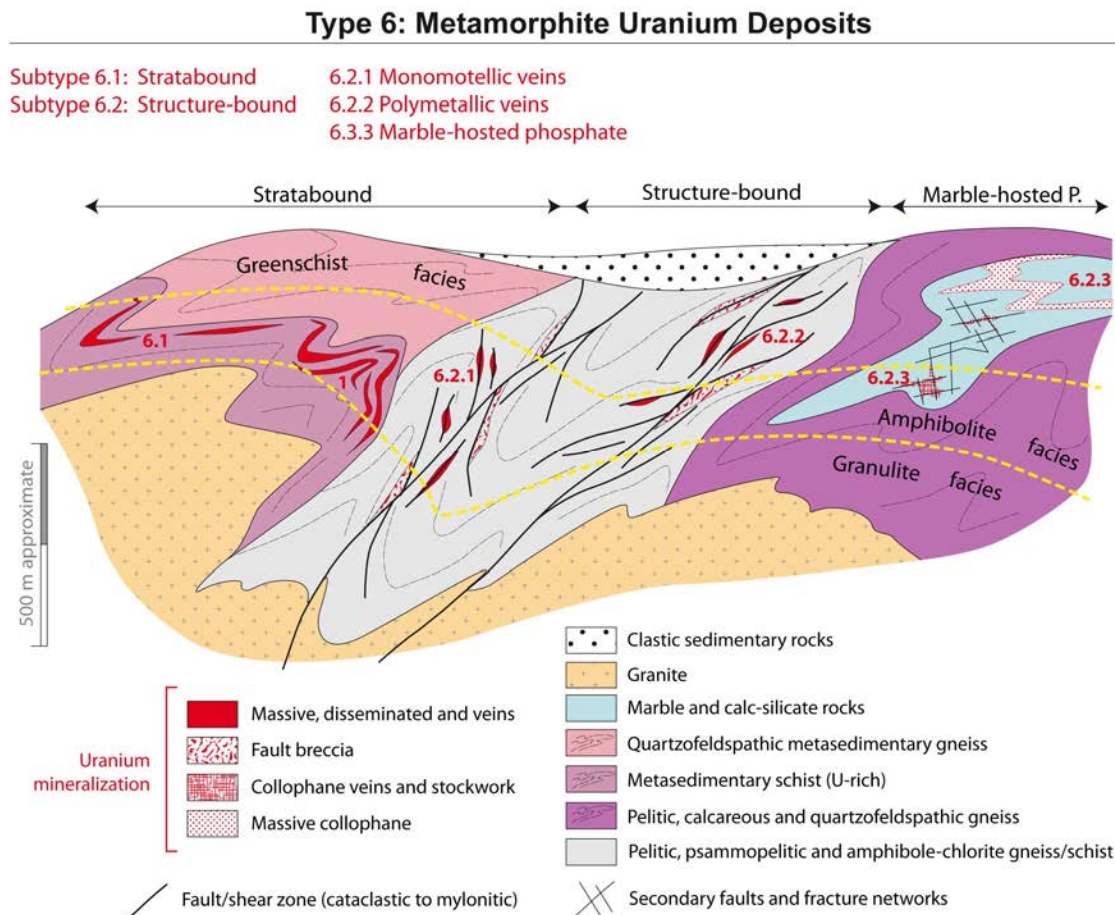


FIG. 3.7. Type 6: Metamorphite uranium deposits.

### 3.2.7 Type 7: Proterozoic unconformity

Unconformity deposits are associated with, and occur immediately below, above or spanning, an unconformable contact that separates Archean–Palaeoproterozoic crystalline basement from overlying, red bed clastic sediments of Proterozoic age [3.4]. The basement rocks immediately beneath the unconformity near these deposits are usually strongly haematized and exhibit clay alteration, possibly as a result of palaeoweathering and/or diagenetic or hydrothermal alteration [3.7]. Deposits consist of pods, veins and semi-massive replacements comprising mainly pitchblende. Strong quartz dissolution is generally associated with these deposits. They occur in two major districts: the Athabasca Basin (Canada) and the Pine Creek Orogen (Australia). The Proterozoic unconformity deposits include three subtypes (Fig. 3.8) of variable importance: (subtype 7.1) unconformity-contact deposits, which all occur in the Athabasca Basin (Canada), (subtype 7.2) basement-hosted deposits (examples: Millennium and Eagle Point in the Athabasca Basin, Kintyre, Jabiluka and Ranger, Australia; and Kiggavik and Andrew Lake in the Thelon Basin (Canada) and (subtype 7.3) stratiform structure-controlled deposits (examples: Chitrial and