GRAPHITE

Chemical formula: C

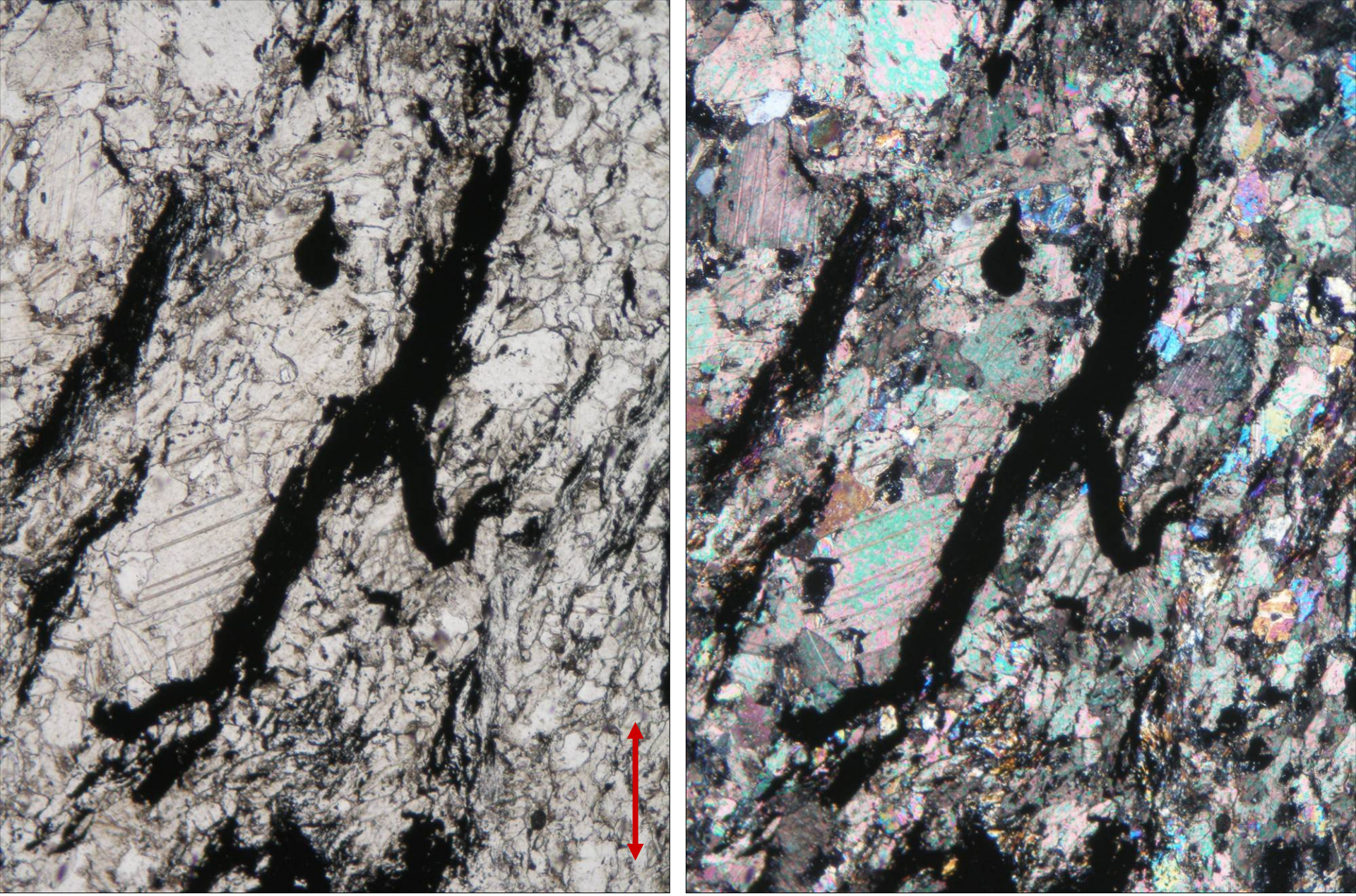
Crystal system: trigonal or hexagonal

Color in thin section: opaque

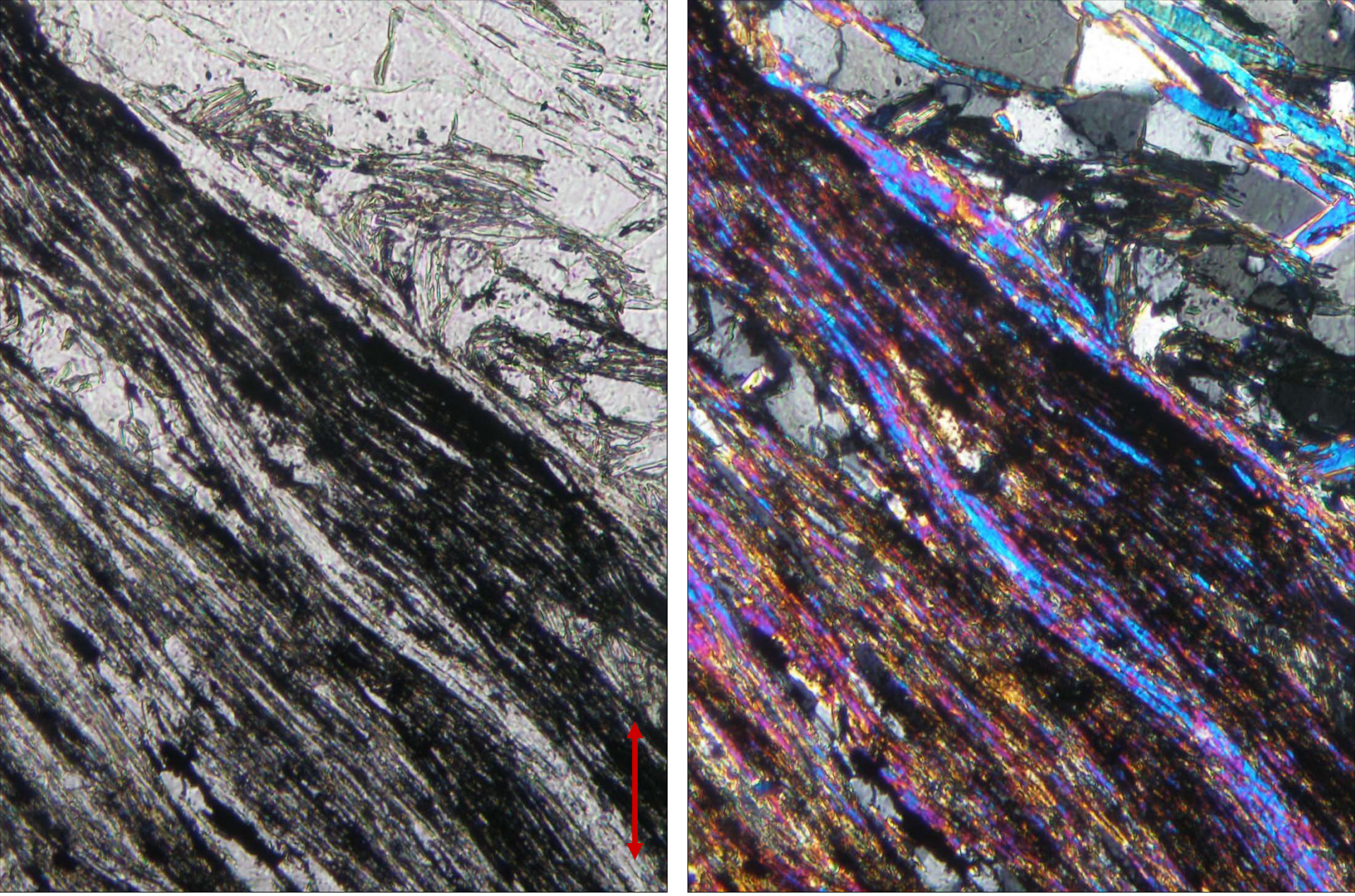
Form: flakes, scales, scaly masses, fine-grained aggregates, tabular crystals

Occurrence: slate, phyllite, mica schist, paragneiss, quartzite, marble

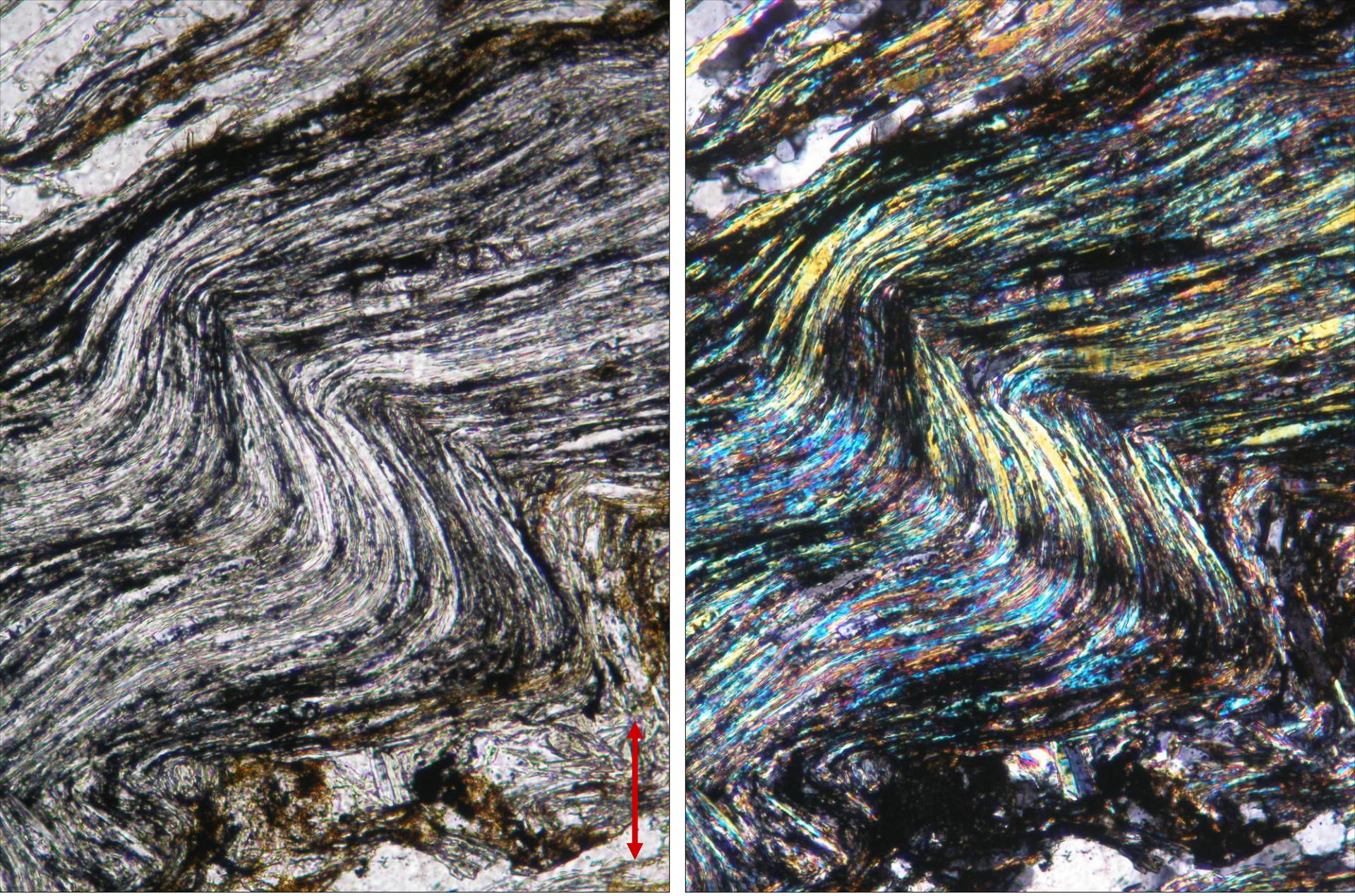
Similar minerals in thin sections: may be easily mistaken with hematite, ilmenite, magnetite, pyrite and other fine-grained opaque minerals



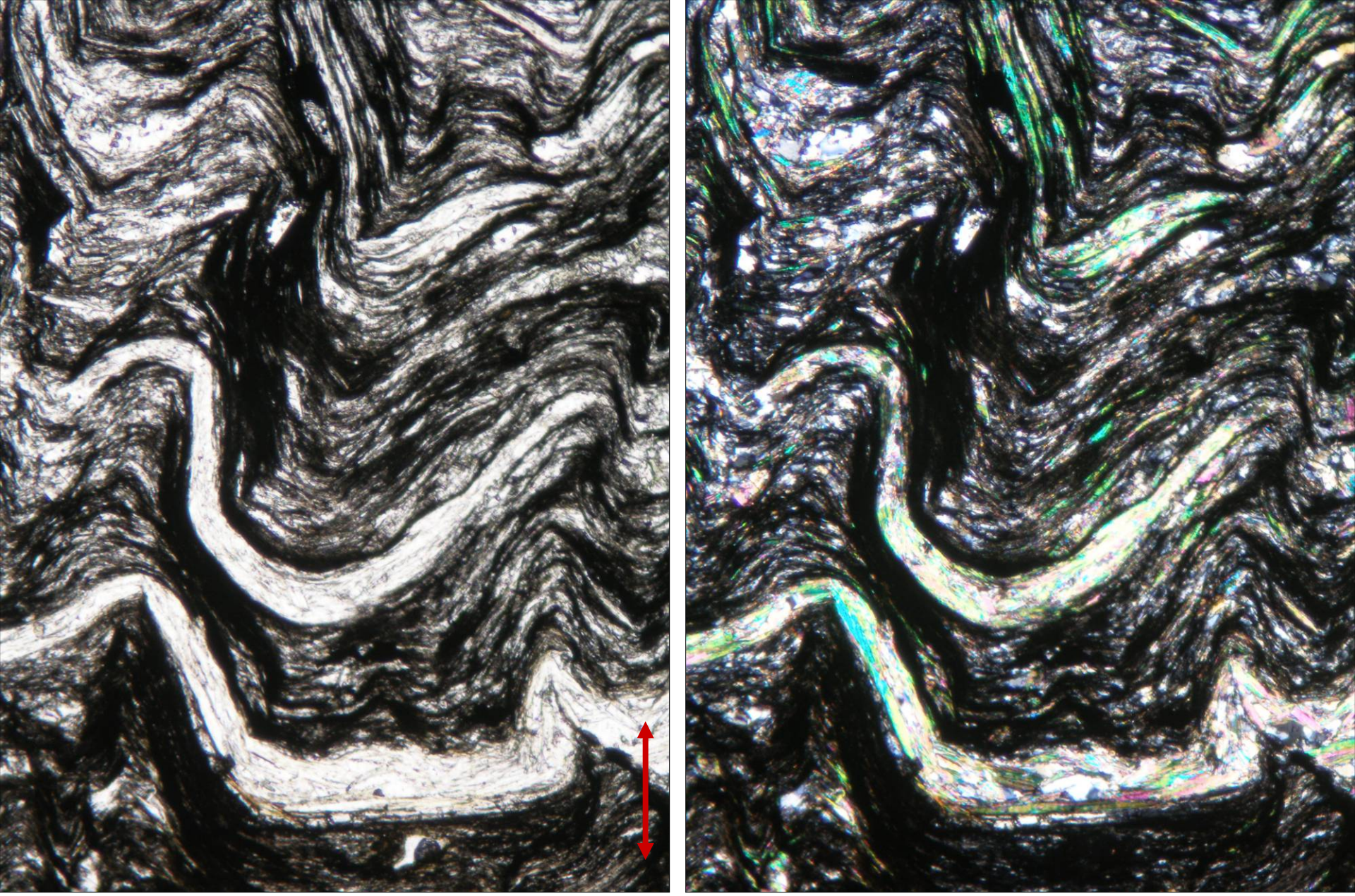
Graphite in marble from Heřmanovice, the Czech Republic; PPL (left) and XPL (right). Width of fields of view is ca. 1.8 mm. Photo: JiZi.



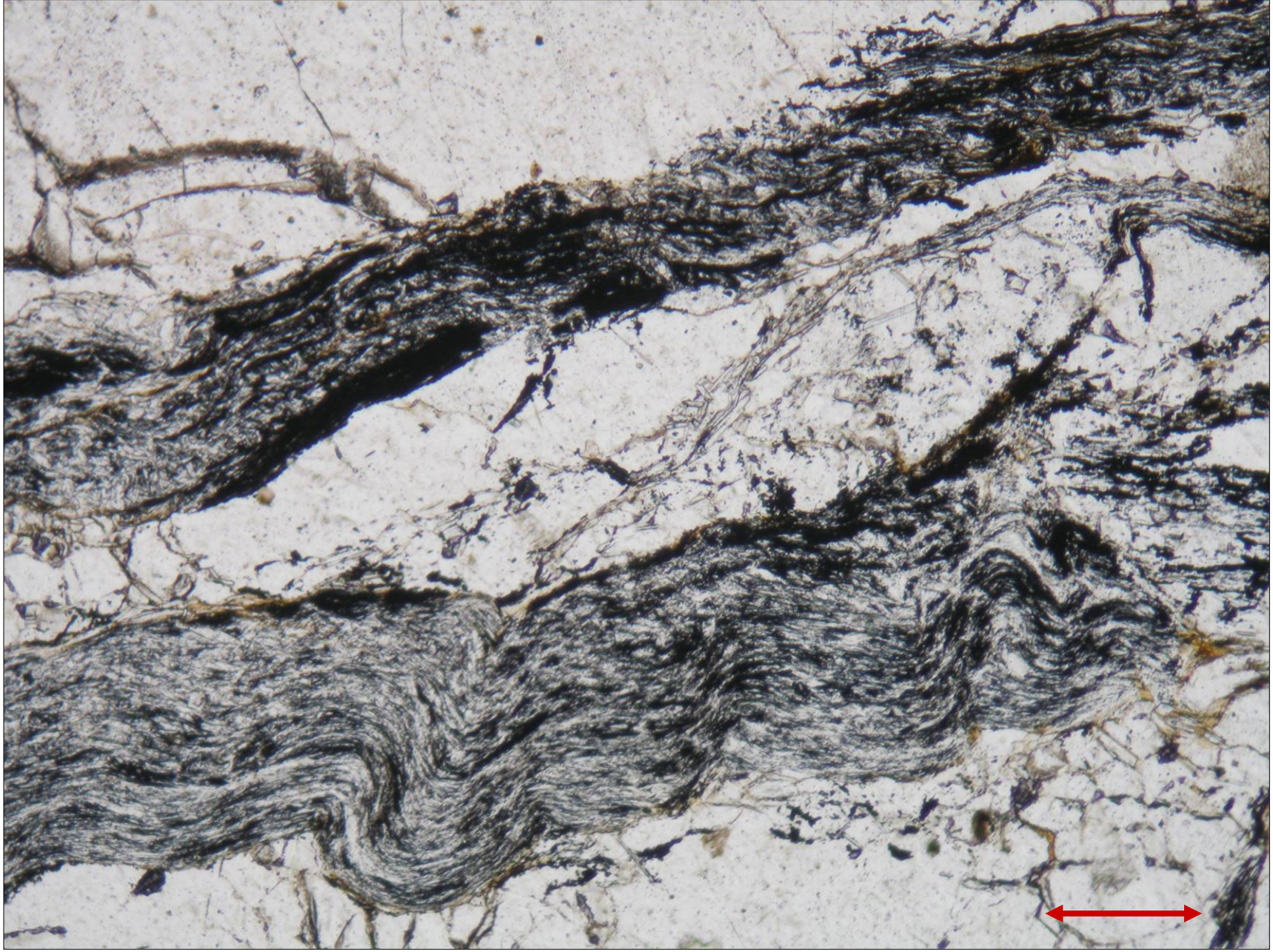
Opaque minerals (mainly graphite) in phyllite from Nový Malín, the Czech Republic; PPL (left) and XPL (right). Width of fields of view is ca. 0.4 mm. Photo: JiZi.



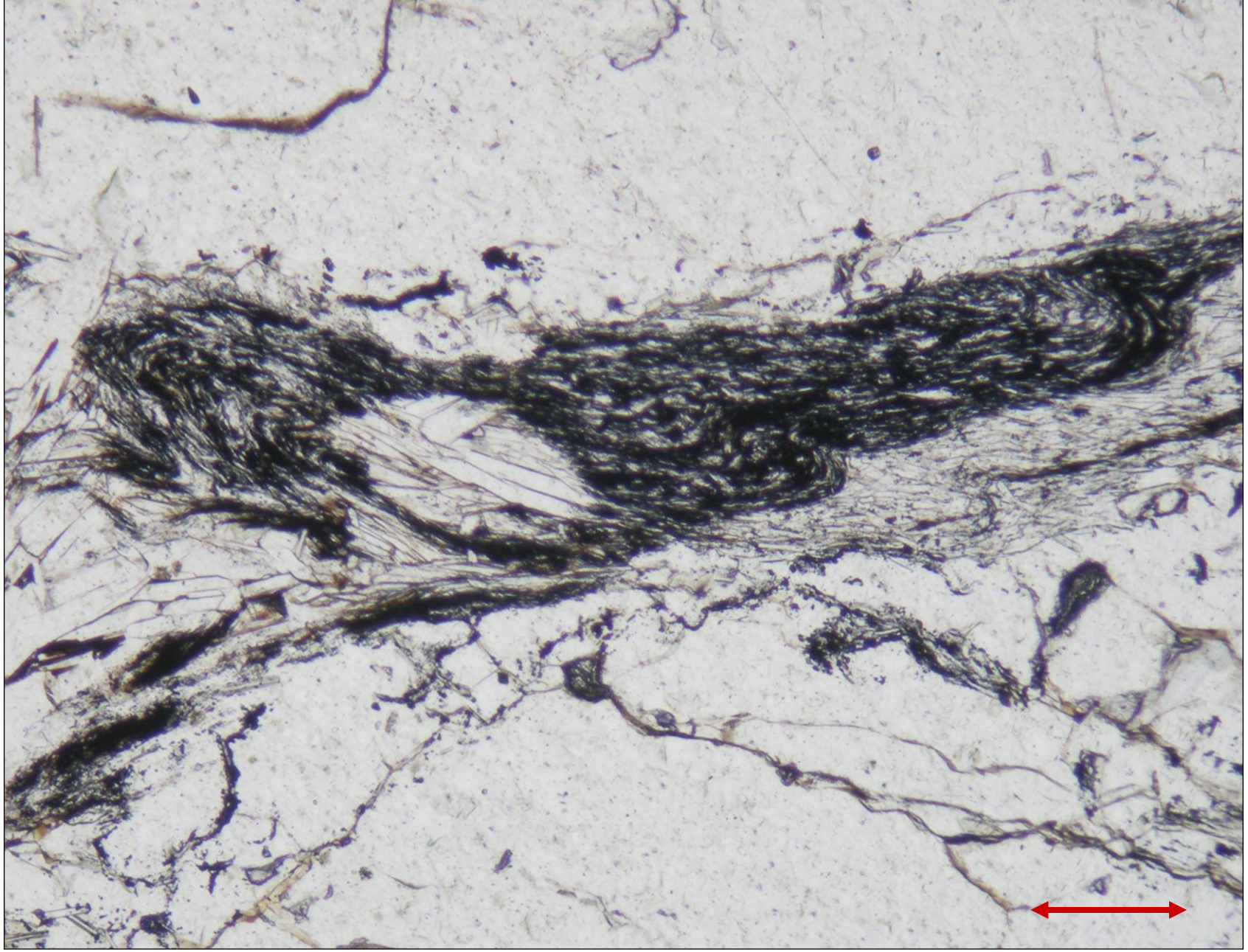
Opaque minerals (mainly graphite) in phyllite from Nový Malín, the Czech Republic; PPL (left) and XPL (right). Width of fields of view is ca. 0.7 mm. Photo: JiZi.



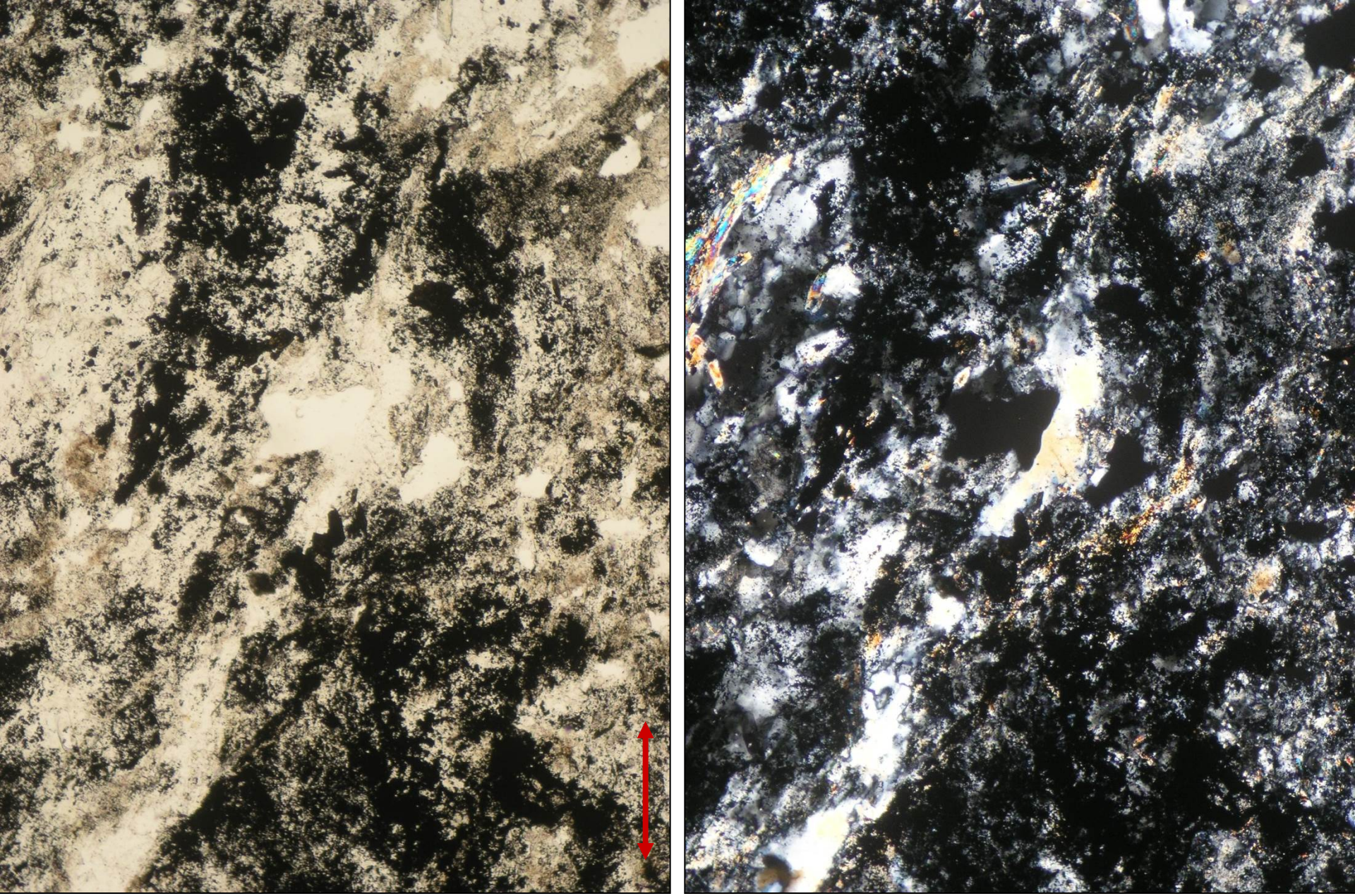
Graphite in phyllite from Bělá pod Pradědem, the Czech Republic; PPL (left) and XPL (right). Width of fields of view is ca. 2.0 mm. Photo: JiZi.



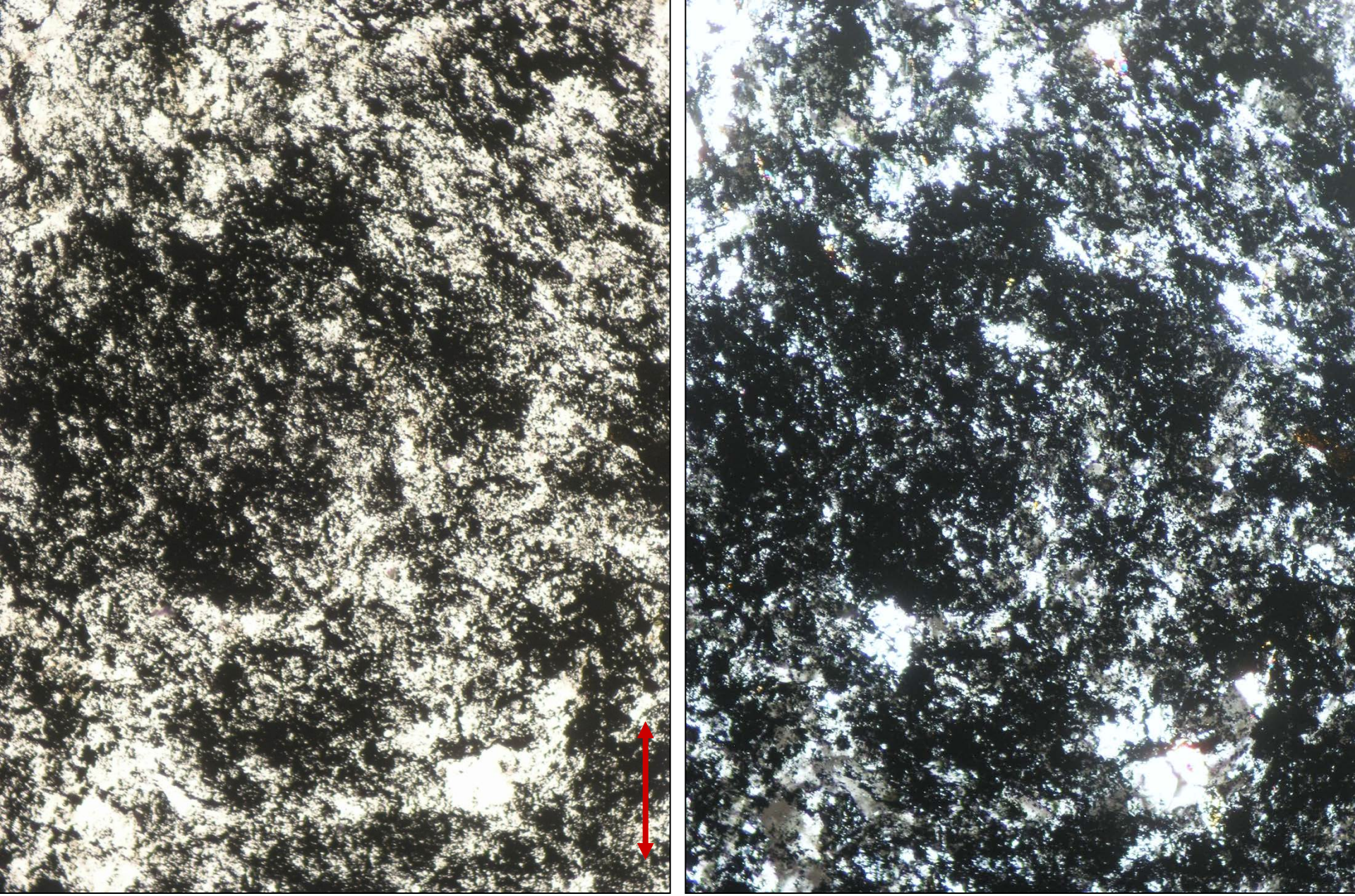
Graphite in mica schist from Petrov nad Desnou, the Czech Republic; PPL. Width of the field of view is ca. 2.5 mm. Photo: JiZi.



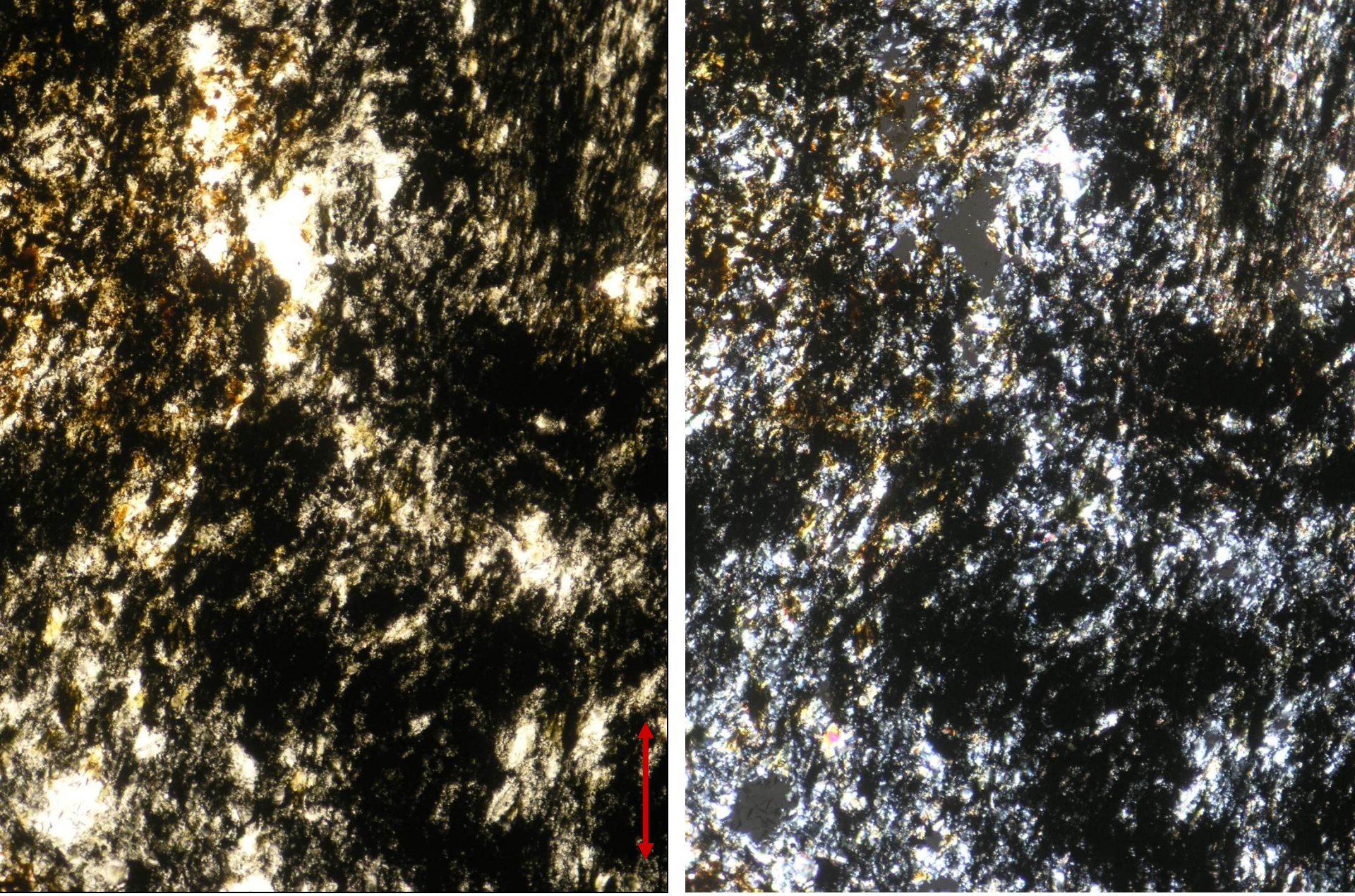
Graphite in mica schist from Petrov nad Desnou, the Czech Republic; PPL. Width of the field of view is ca. 1.8 mm. Photo: JiZi.



Graphite in phyllite from Nedvědice, the Czech Republic; PPL (left) and XPL (right). Width of fields of view is ca. 2.4 mm. Photo: JiZi.



Graphite in phyllite from Nedvědice, the Czech Republic; PPL (left) and XPL (right). Width of fields of view is ca. 2.4 mm. Photo: JiZi.



Graphite in phyllite to mica schist from Branná, the Czech Republic; PPL (left) and XPL (right). Width of fields of view is ca. 2.4 mm. Photo: JiZi.