

# Supplemental material – thin sections

Samples	Sampled lithologies
5A-21D-4I	Dyke (meladiorite)
5A-21D-4J	Dyke (quartz-diorite)
5A-32R-2C	Meladiorite and quartz-diorite
5G-35D-2B	Dyke (meladiorite)
6C-8D-6	Meladiorite and quartz-diorite
6C-15D-4G	Dyke (mafic)
6E-22D-6A	Meladiorite
PLD-6-1	Quartz-diorite and biotite-tonalite
PLD-29-8	Quartz-diorite
PLD-30-5A	Quartz-diorite
PLD-31-6B	Meladiorite
PMD-8-4	Quartz-diorite
PMD-9-5	Biotite-tonalite

## Elements of interest:

- Main phases (feldspar, quartz, amphibole, biotite);
- Porphyritic texture;
- Zoning in feldspar;
- Metamorphism and deformation (PMD samples).

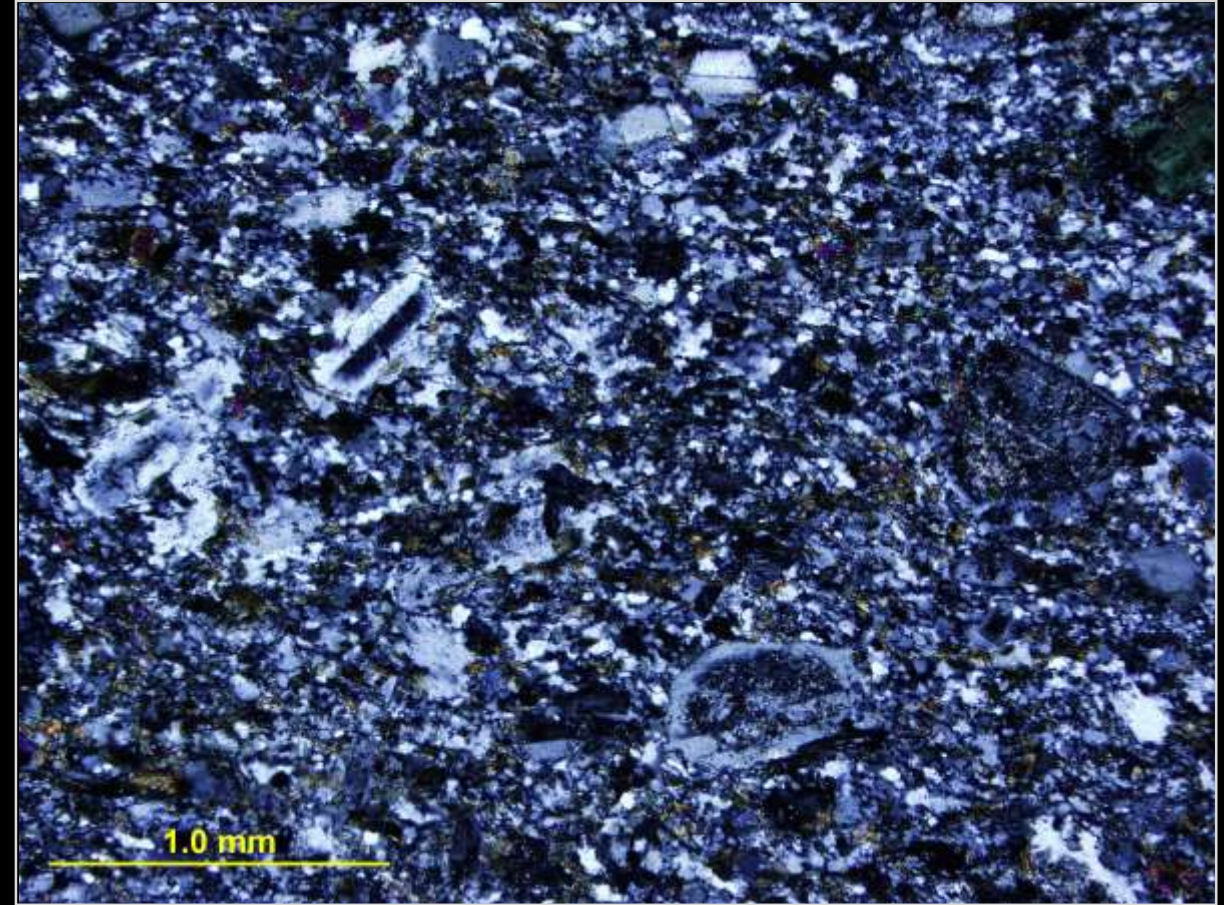
Note on sample selection: only the freshest samples are shown; i.e., with preserved feldspar and biotite.

# Sample 5A-21D-4I



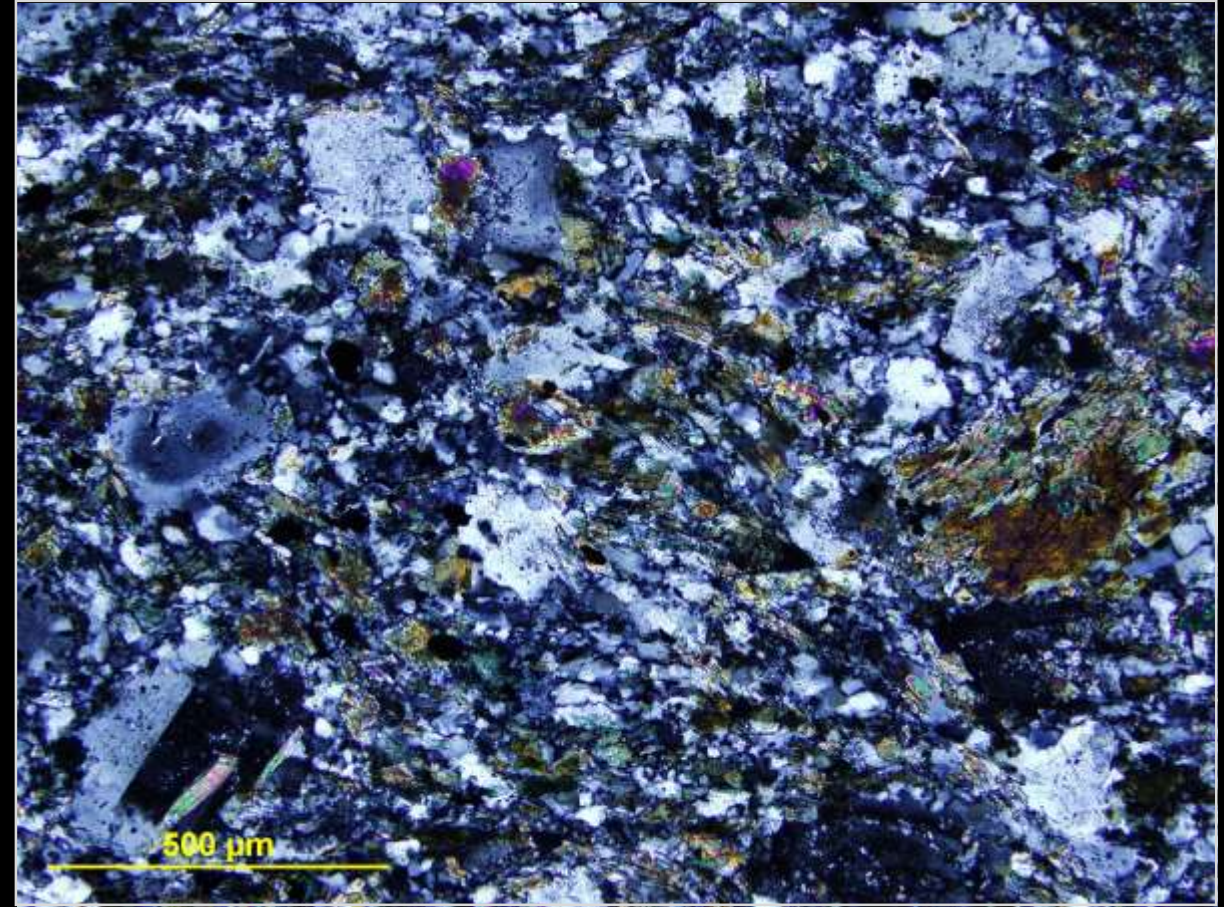
Plane transmitted and cross polarized light microphotographs

# Sample 5A-21D-4J



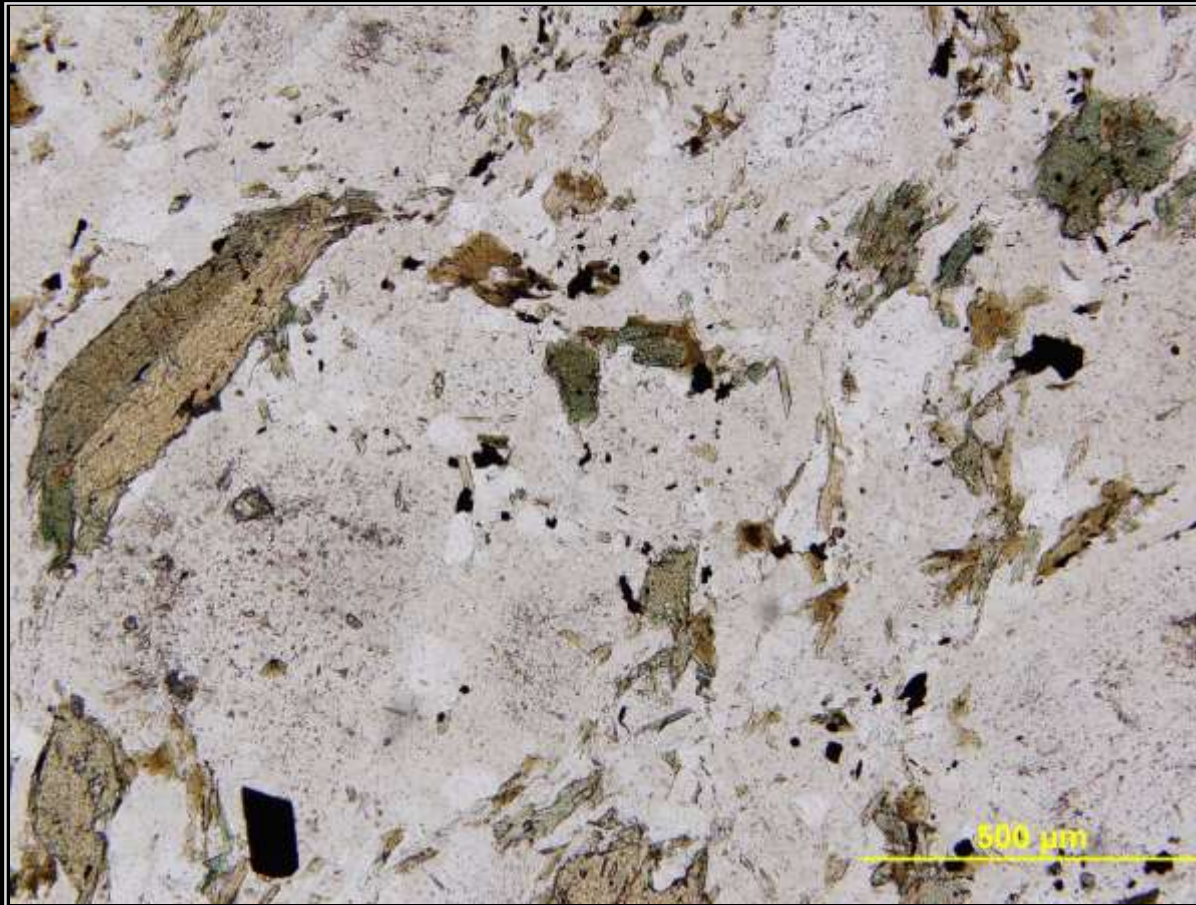
Plane transmitted and cross polarized light microphotographs

# Sample 5A-21D-4J



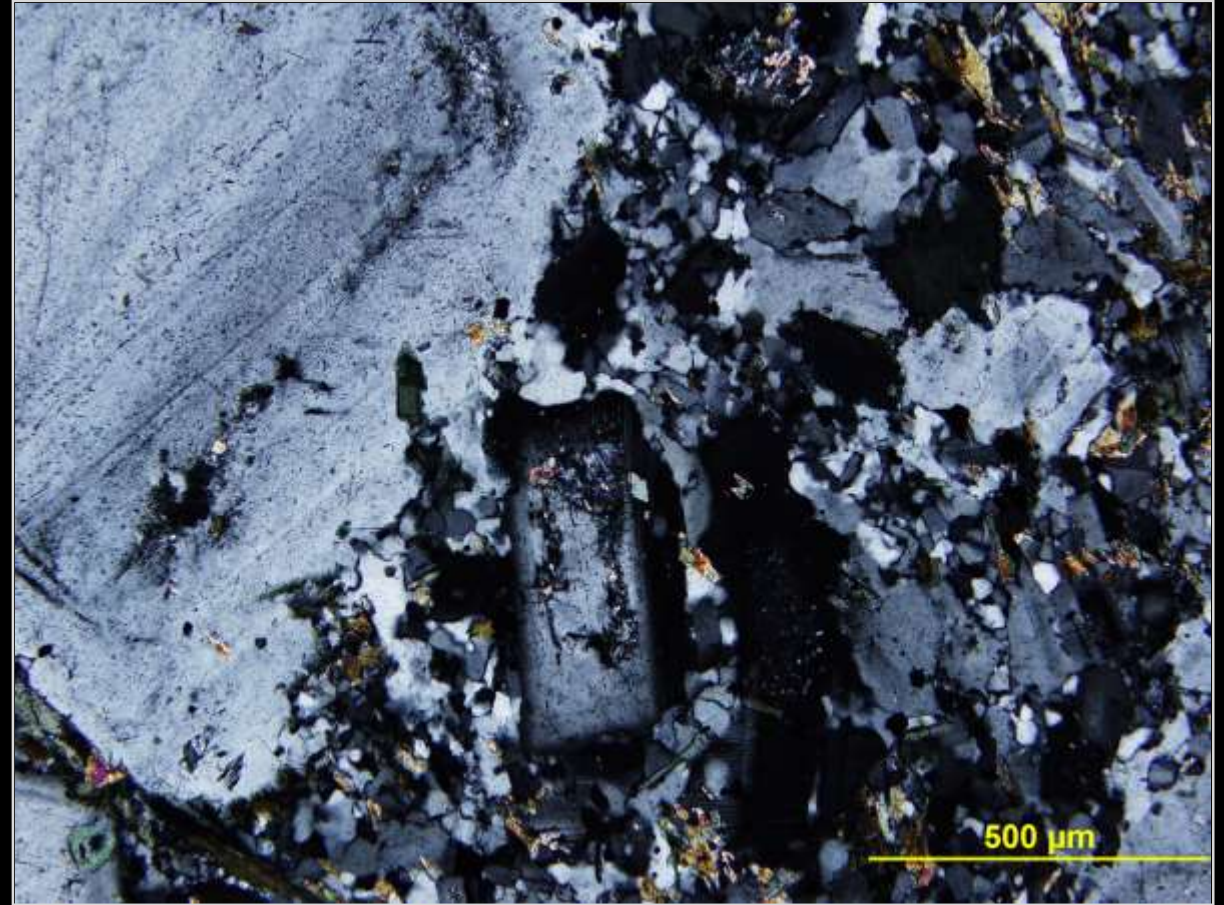
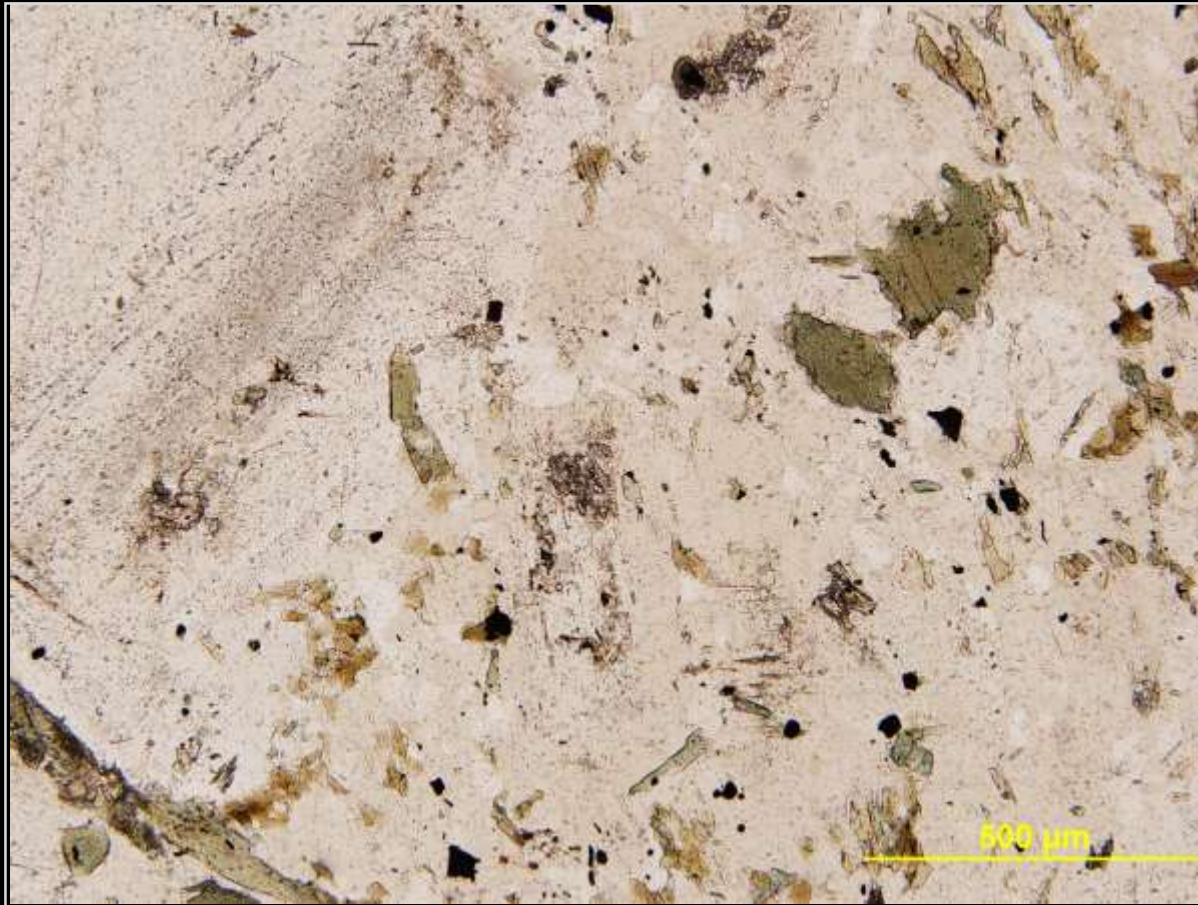
Plane transmitted and cross polarized light microphotographs

# Sample 5A-32R-2C



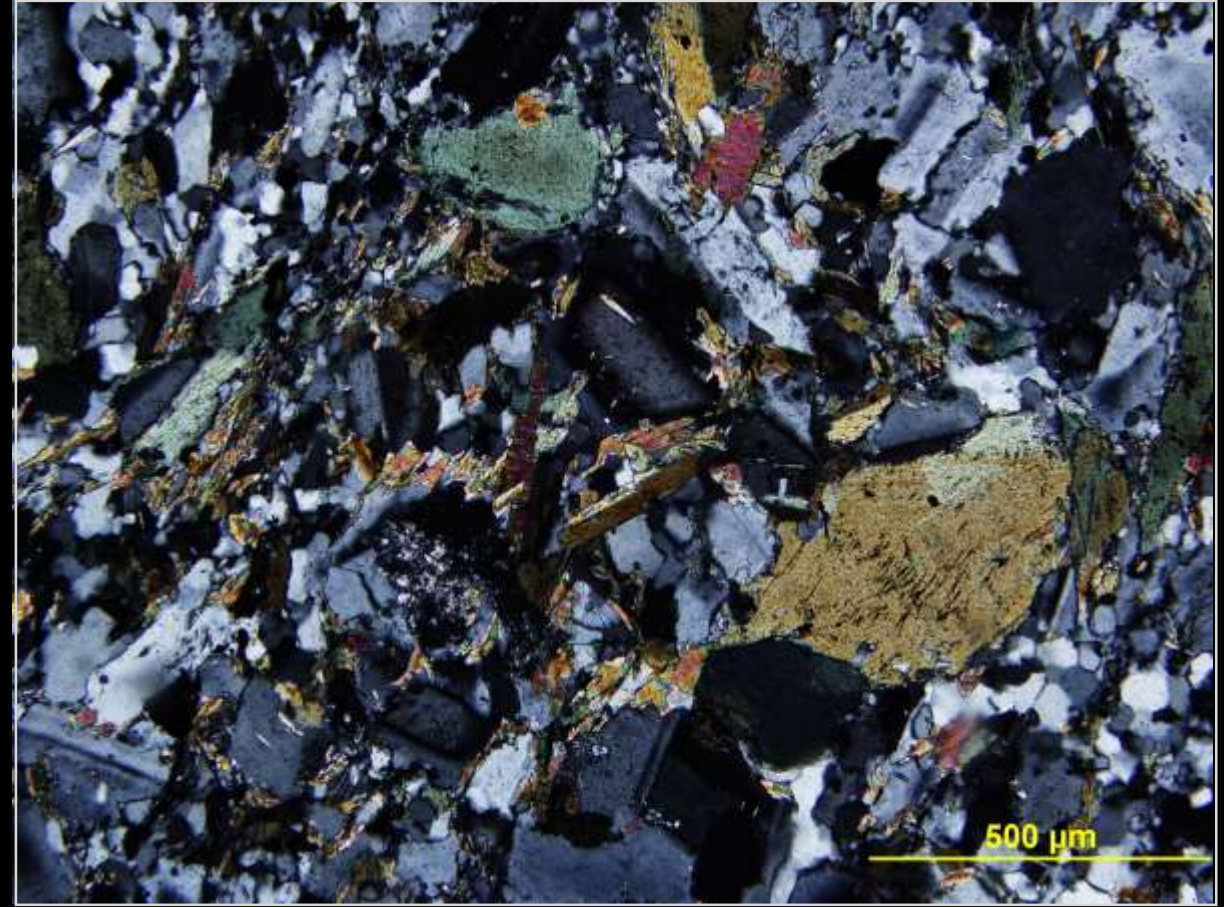
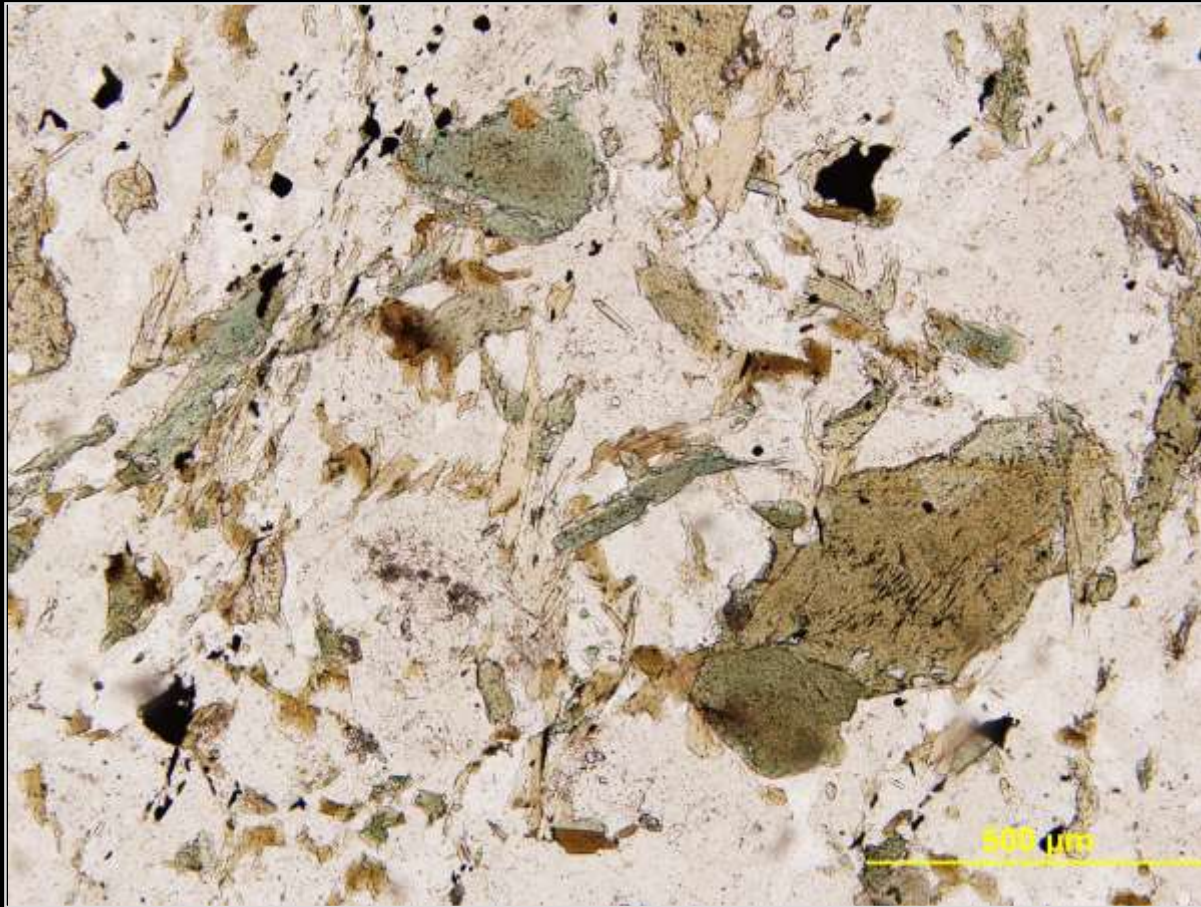
Plane transmitted and cross polarized light microphotographs

# Sample 5A-32R-2C



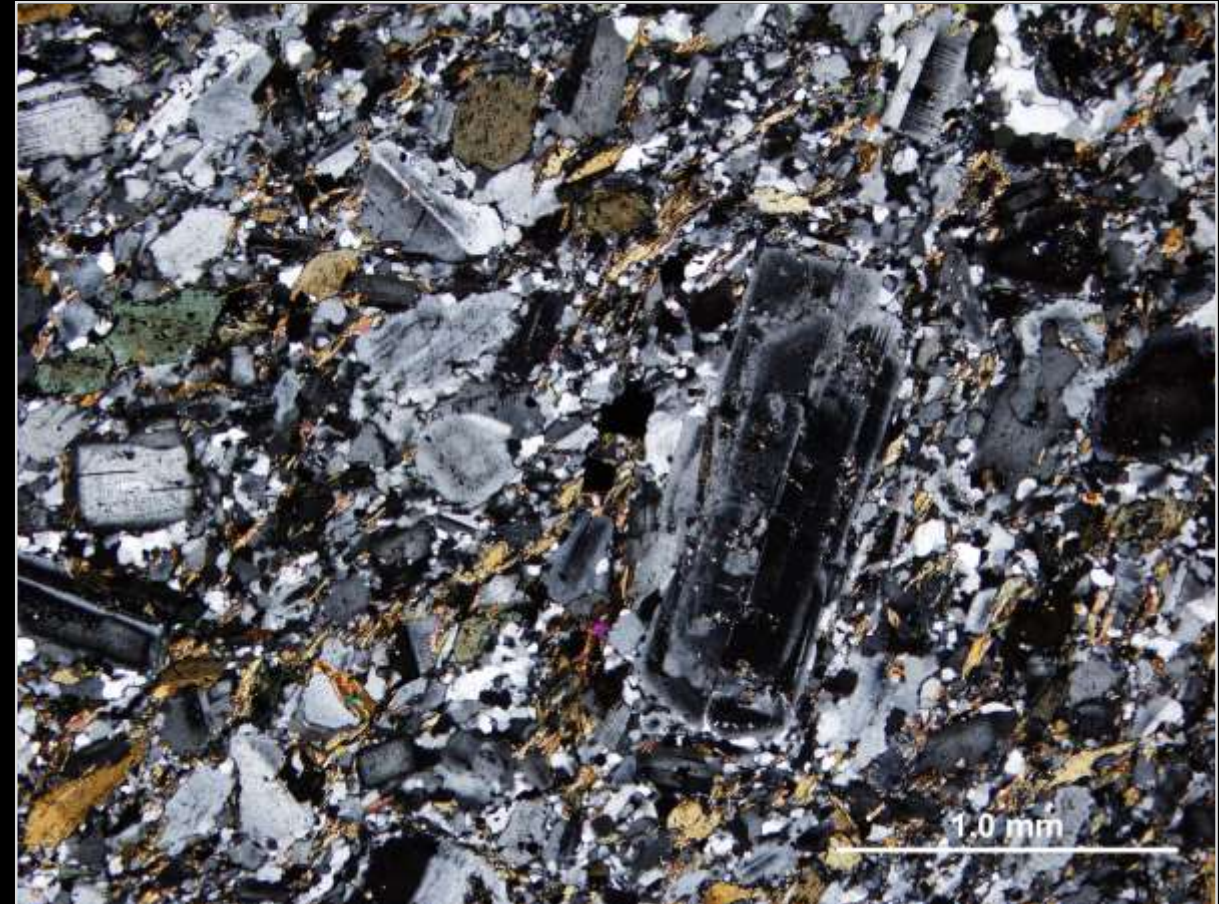
Plane transmitted and cross polarized light microphotographs

# Sample 5A-32R-2C



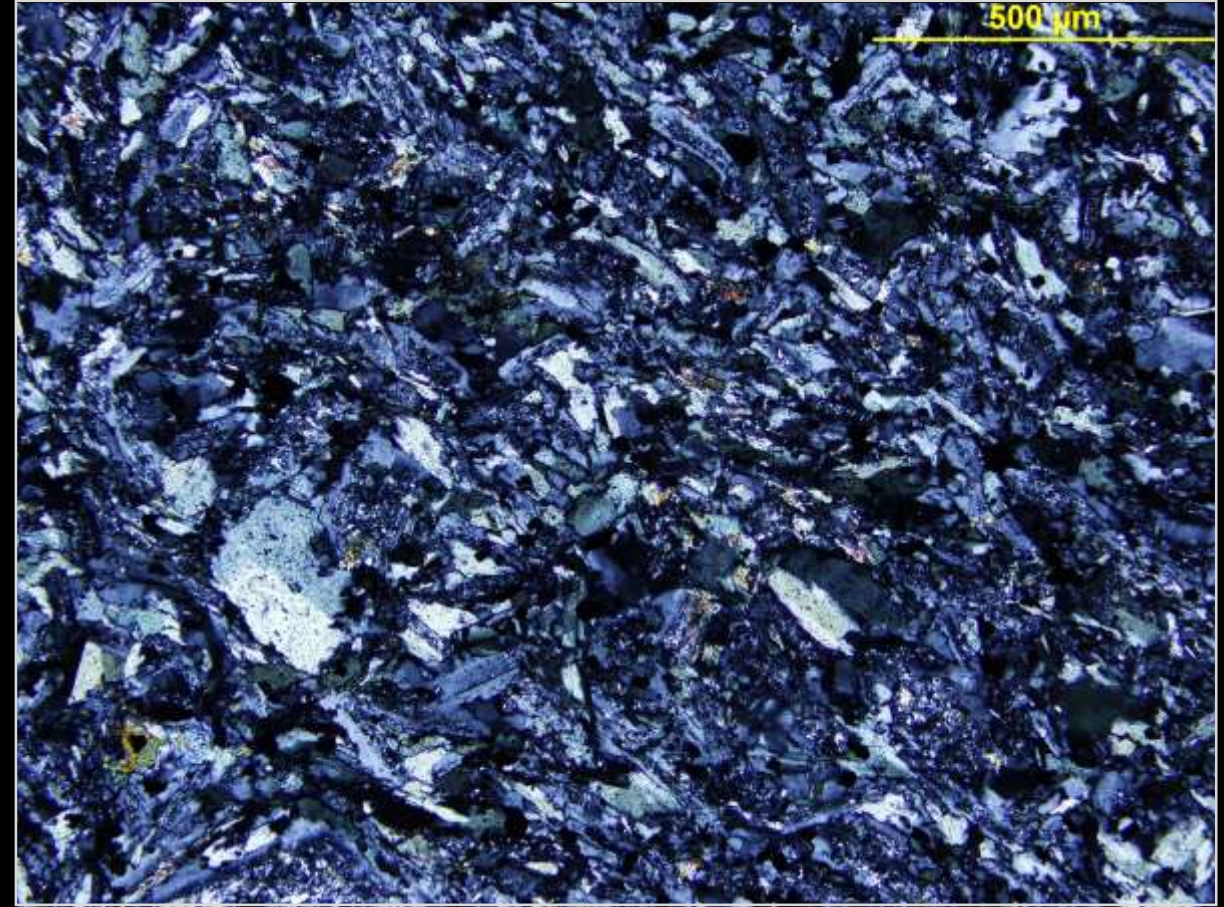
Plane transmitted and cross polarized light microphotographs

# Sample 5A-32R-2C



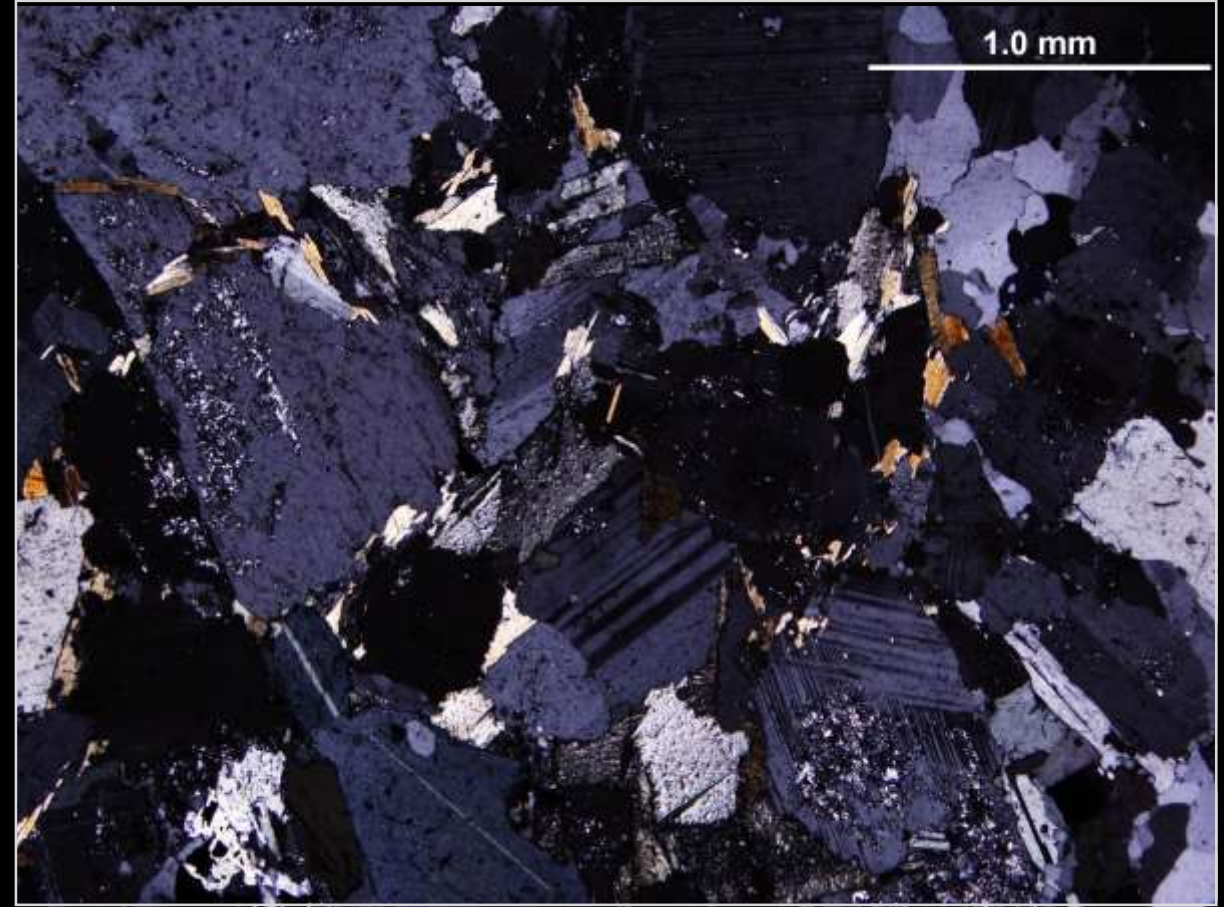
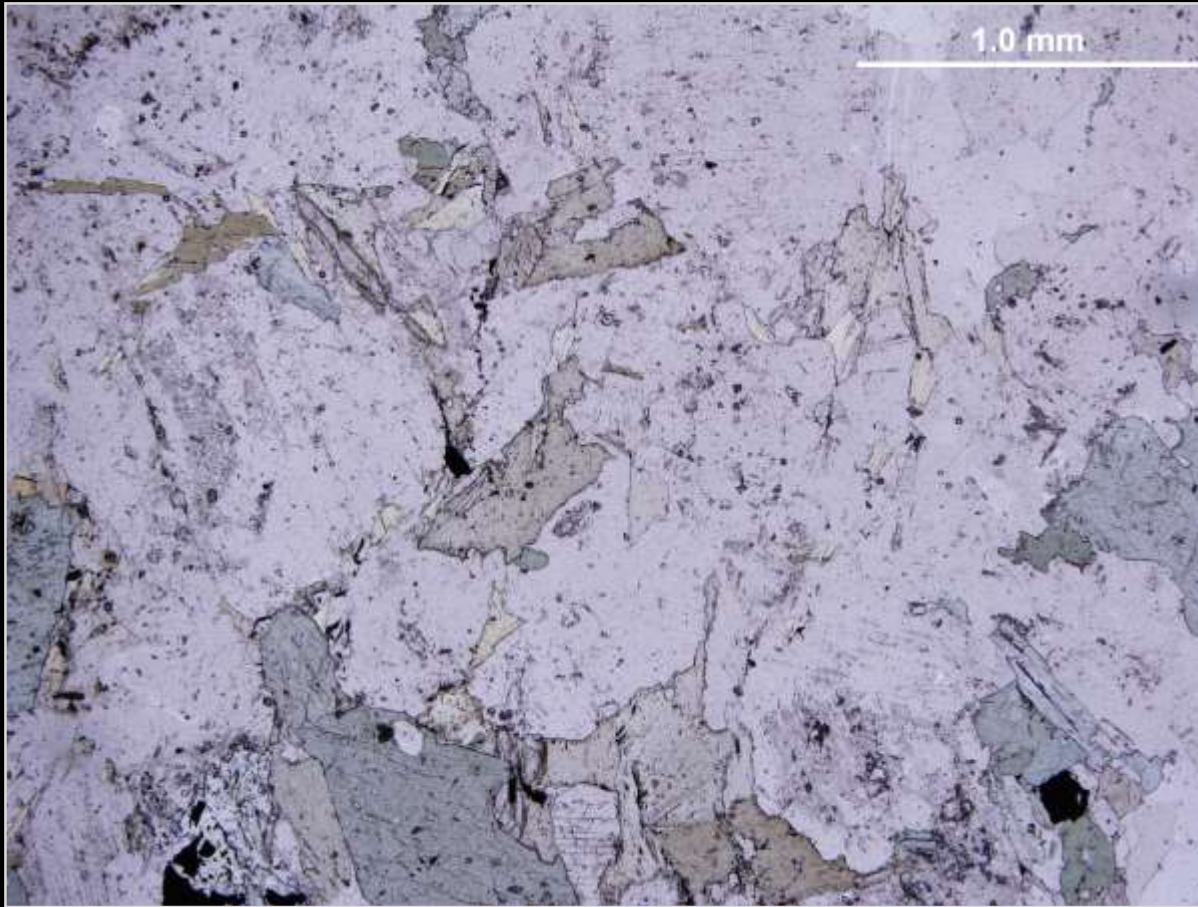
Cross polarized light microphotographs

# Sample 5G-35D-2B



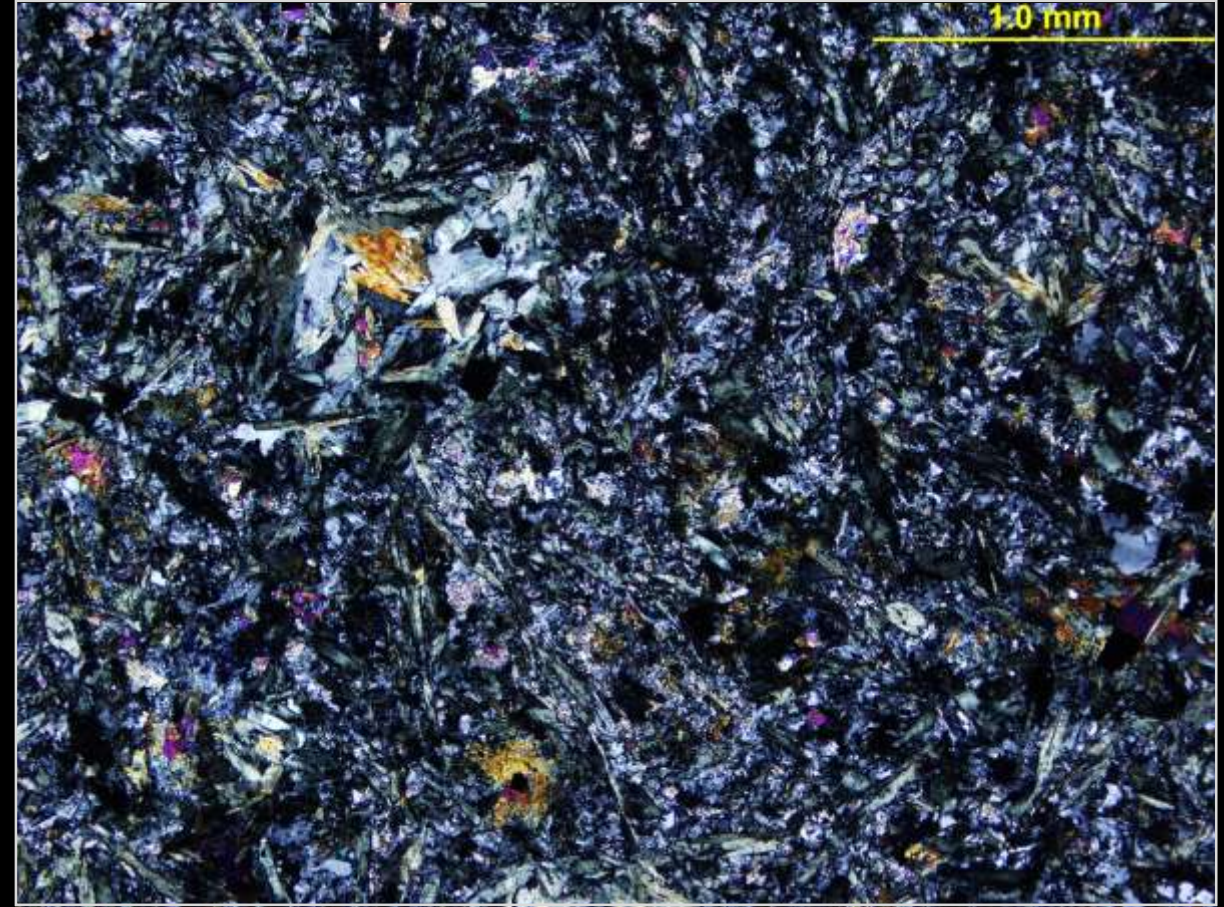
Plane transmitted and cross polarized light microphotographs

# Sample 6C-8D-6



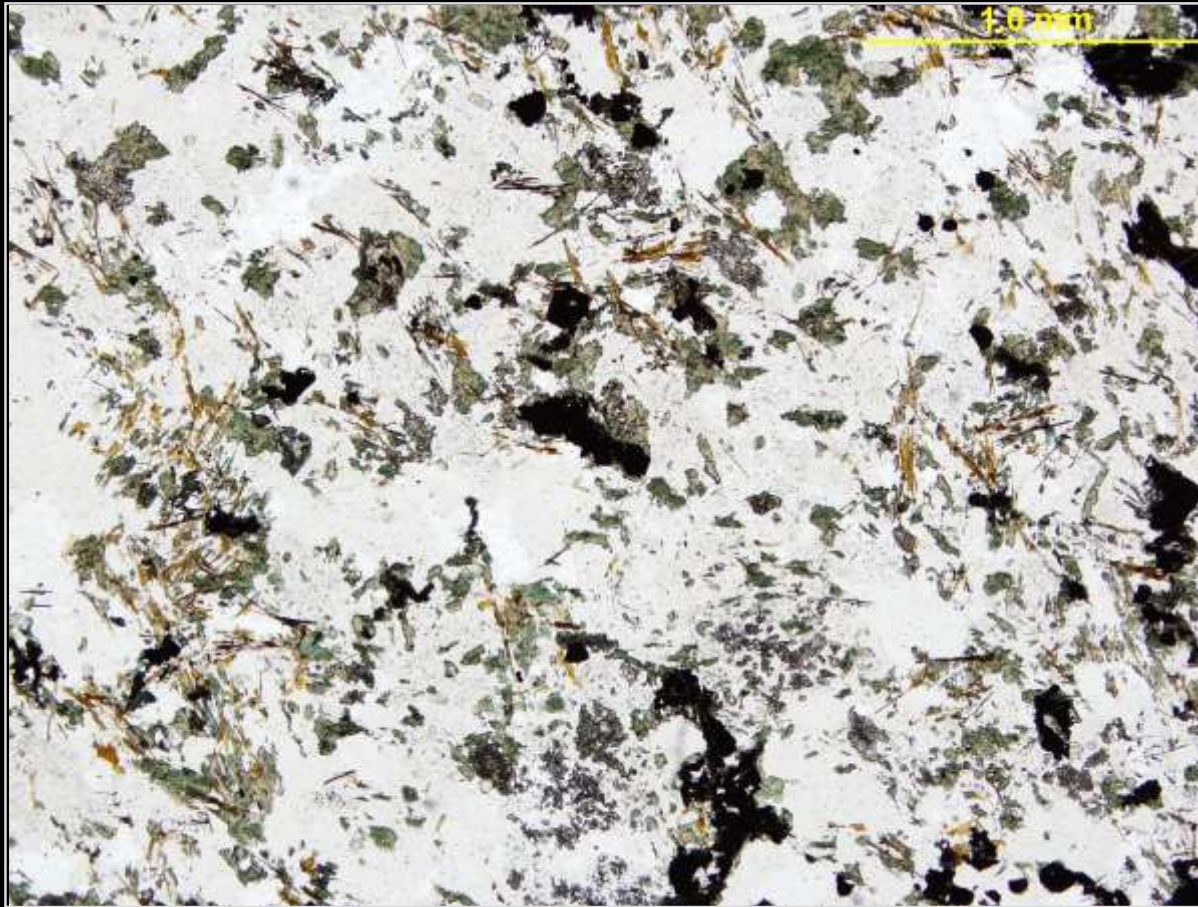
Plane transmitted and cross polarized light microphotographs

# Sample 6C-15D-4G



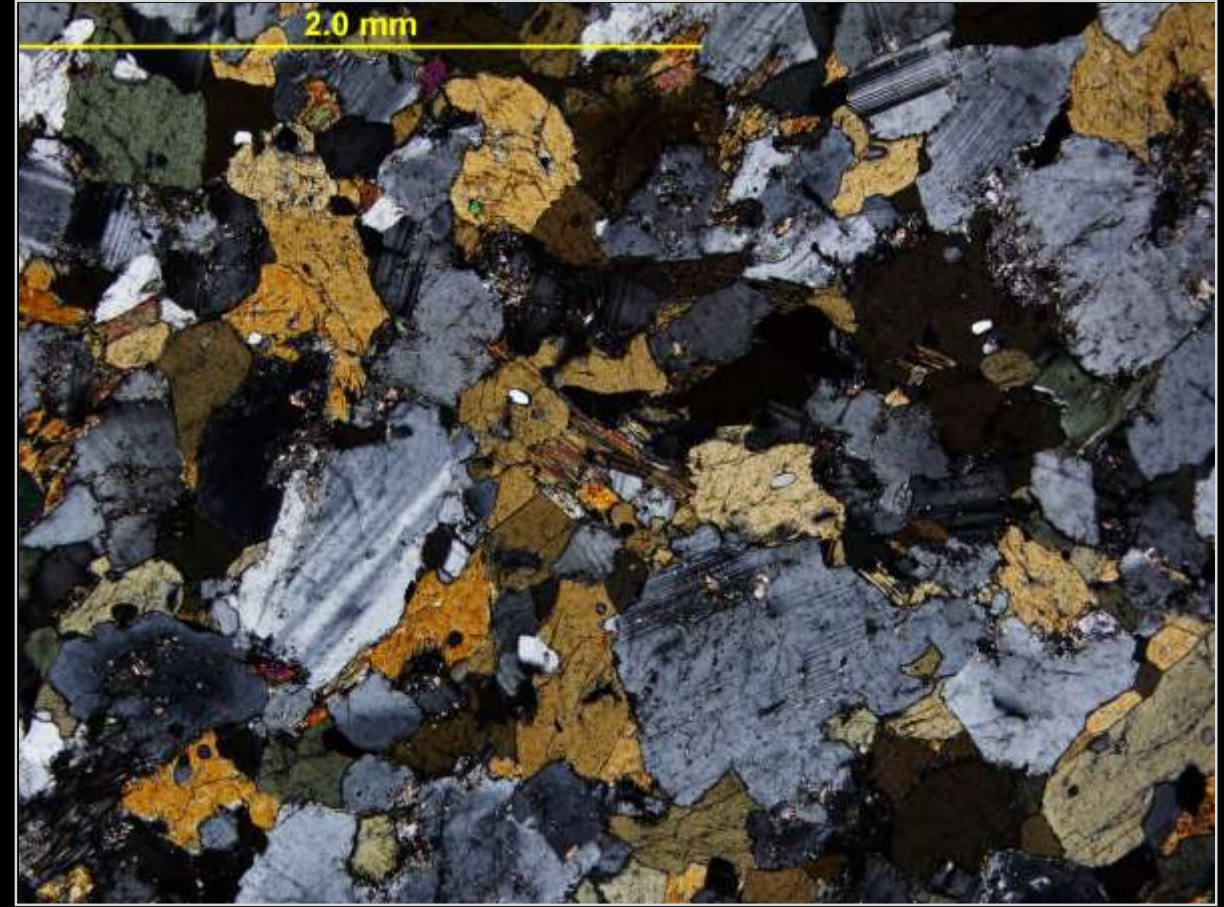
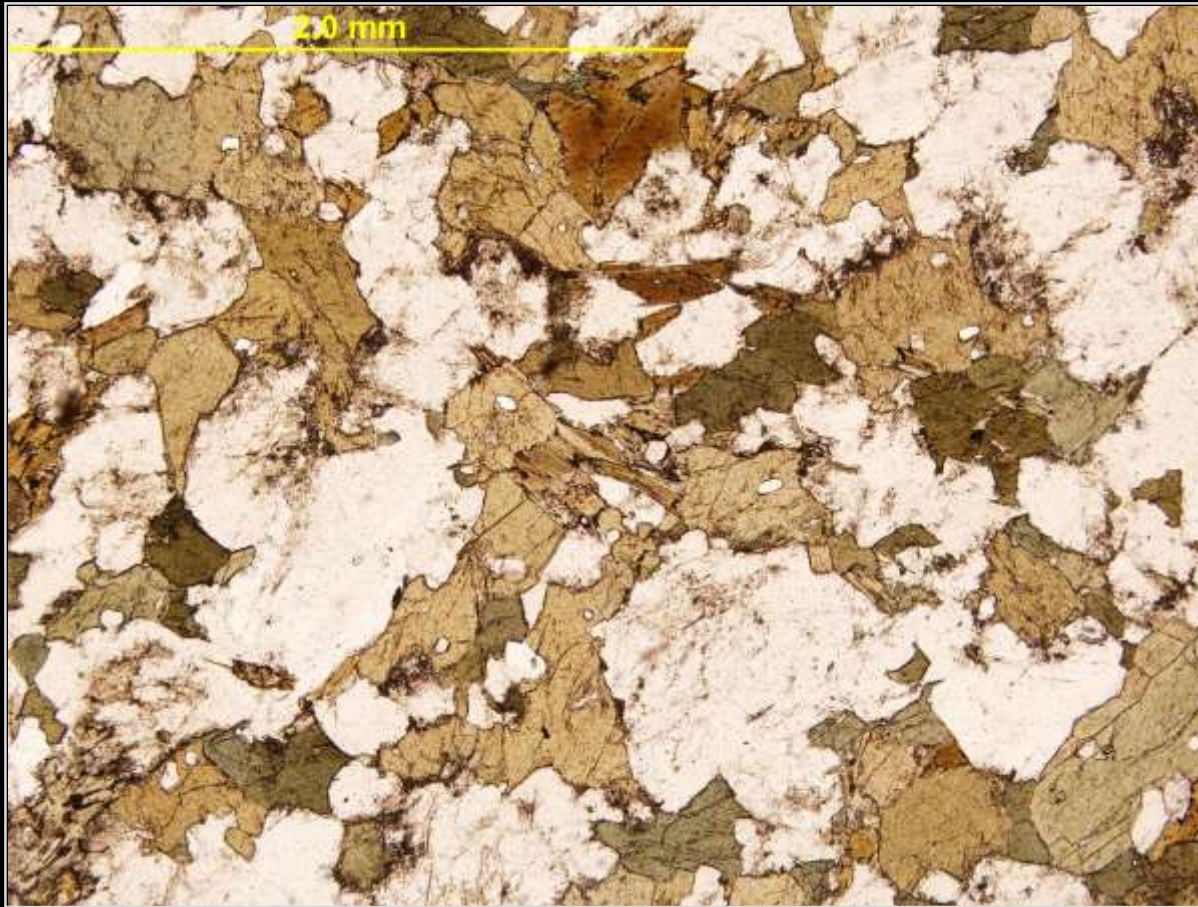
Plane transmitted and cross polarized light microphotographs

# Sample 6F-22D-6A



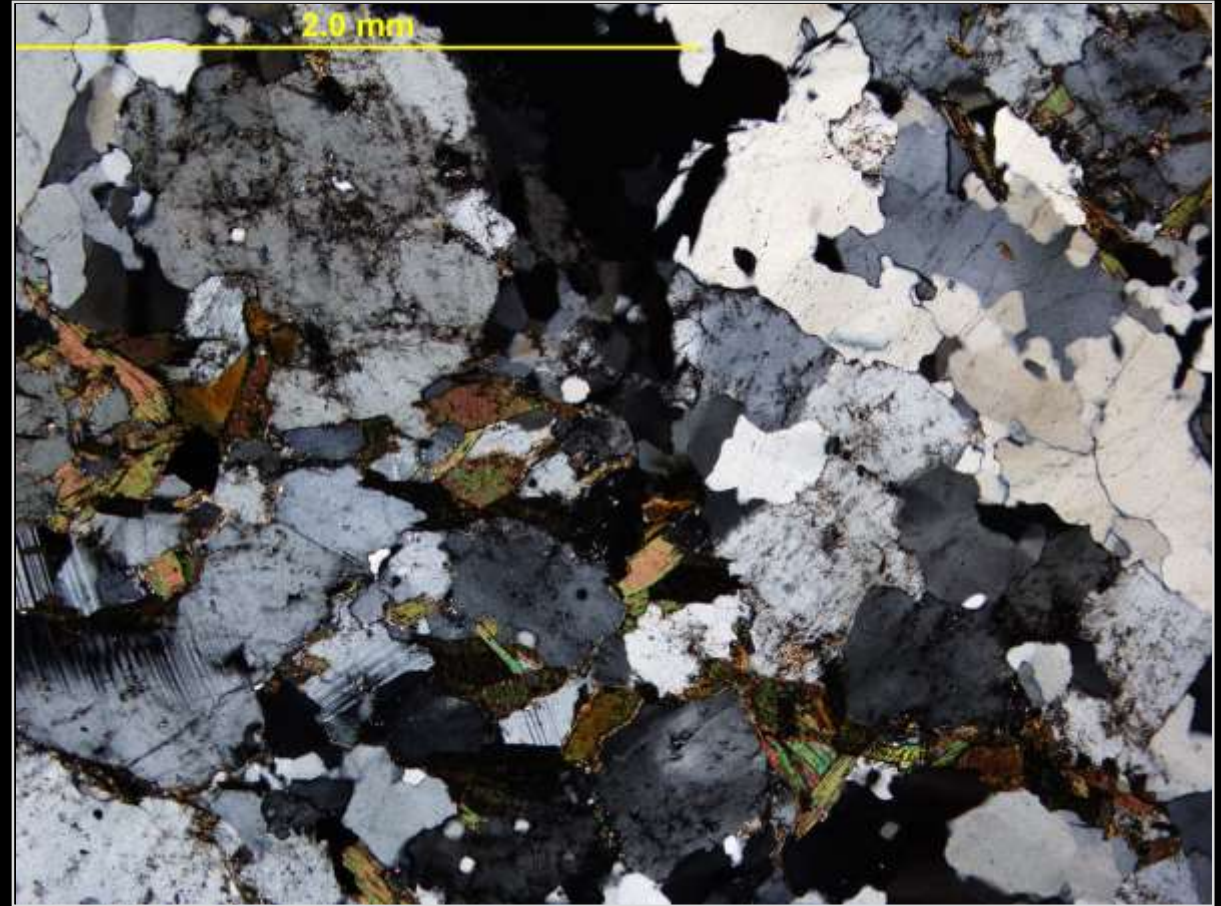
Plane transmitted and cross polarized light microphotographs

# Sample PLD-6-1



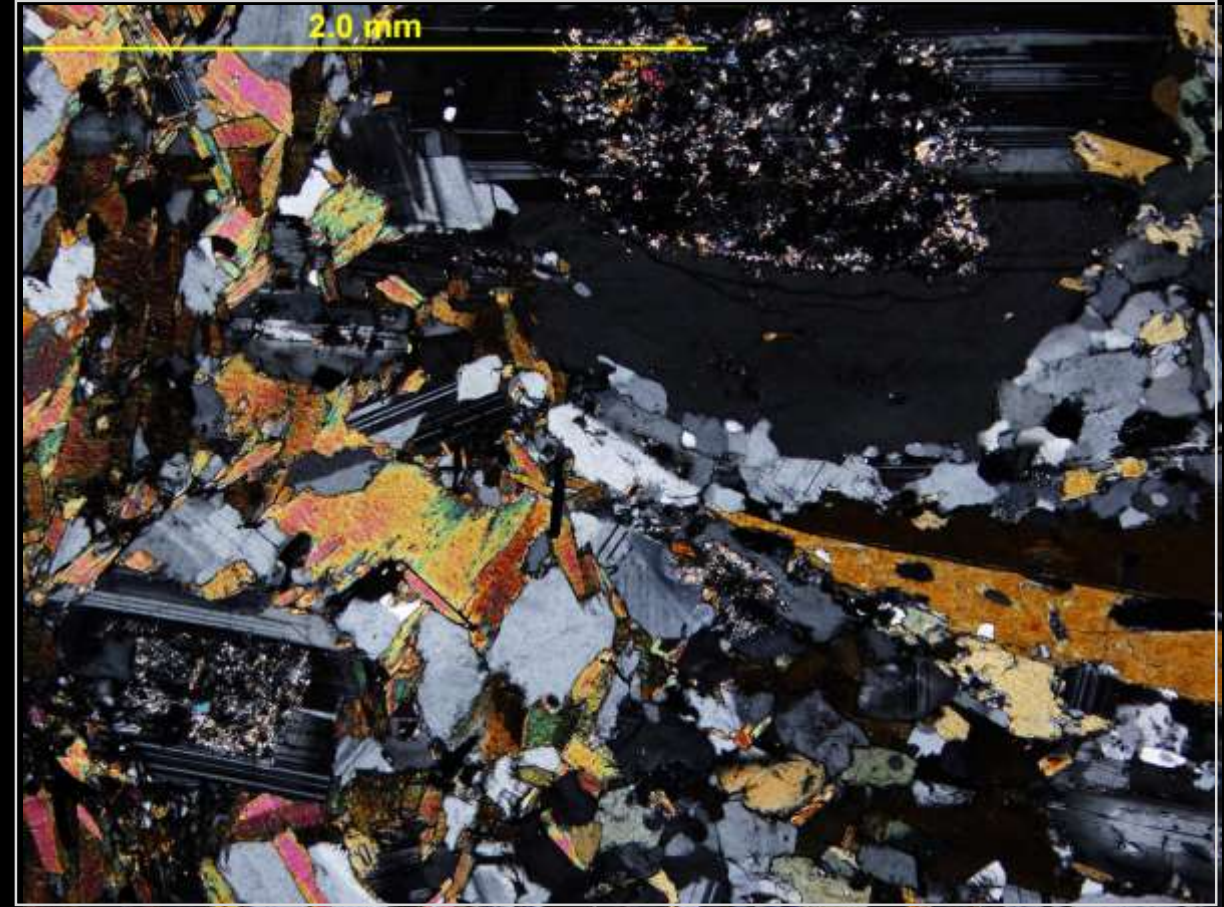
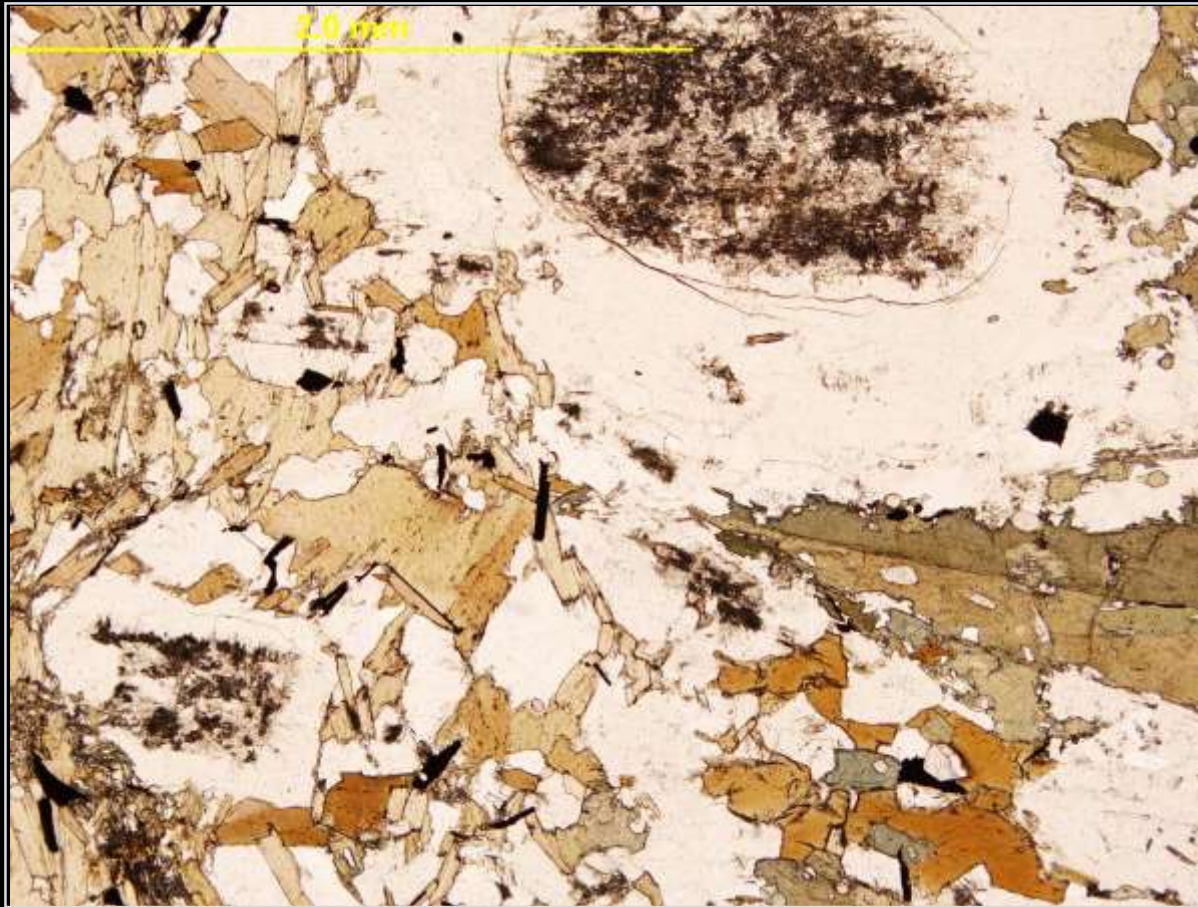
Plane transmitted and cross polarized light microphotographs

# Sample PLD-6-1



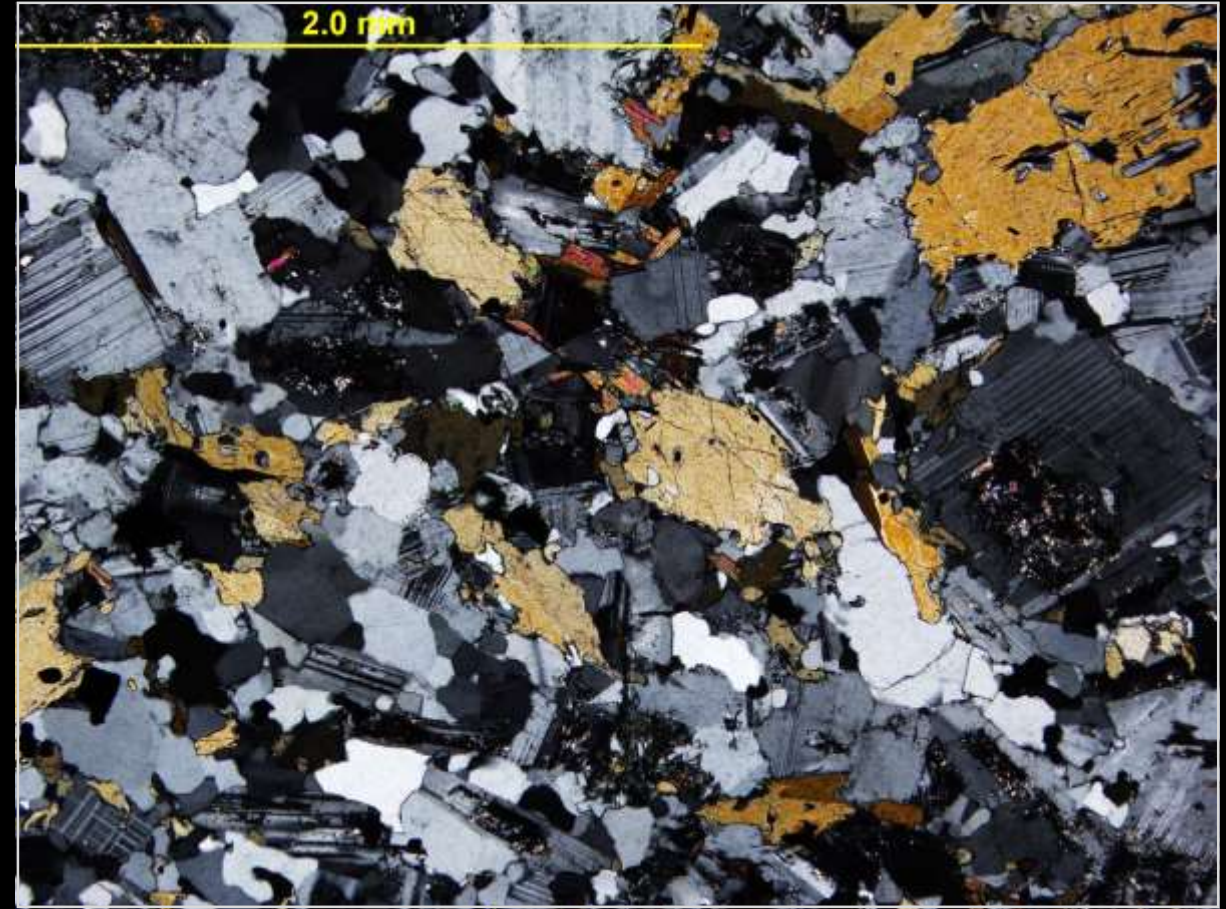
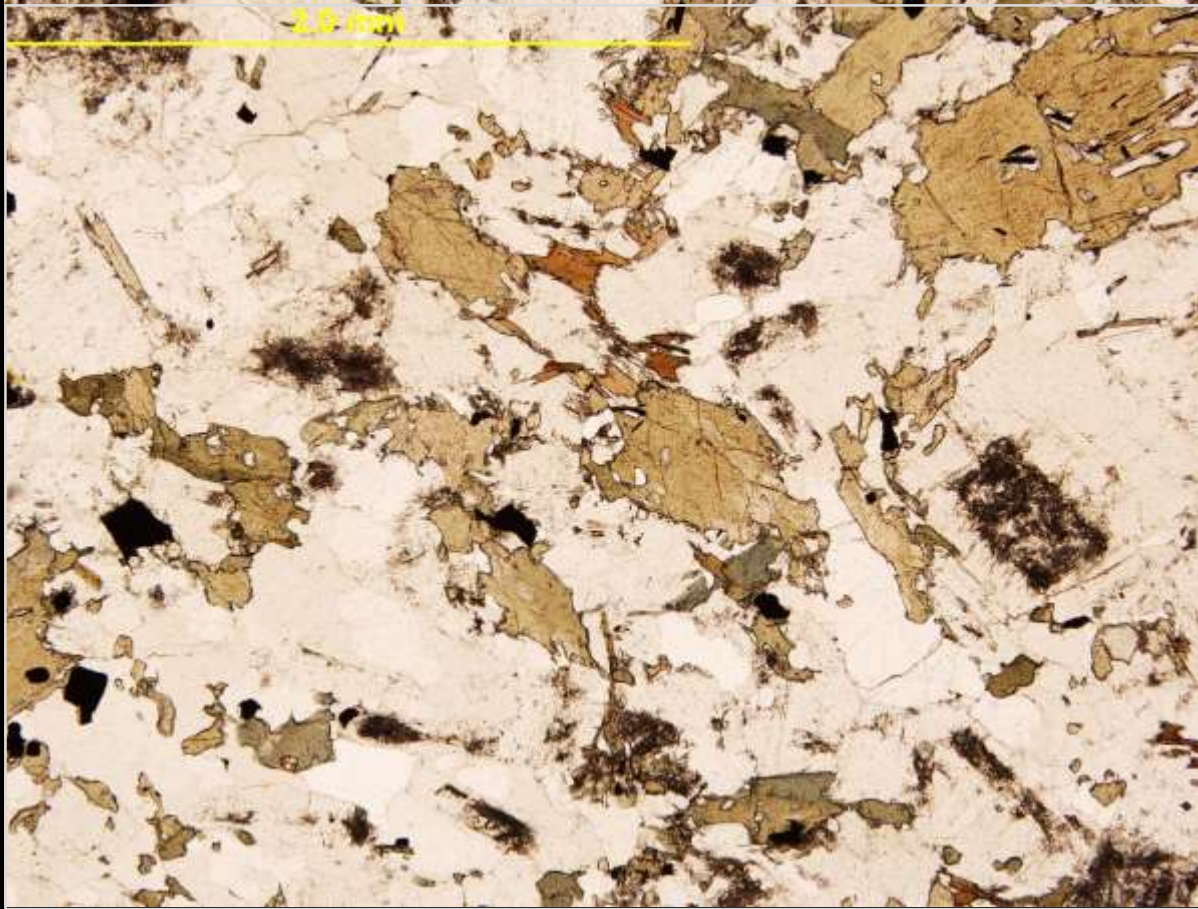
Plane transmitted and cross polarized light microphotographs

# Sample PLD-6-1



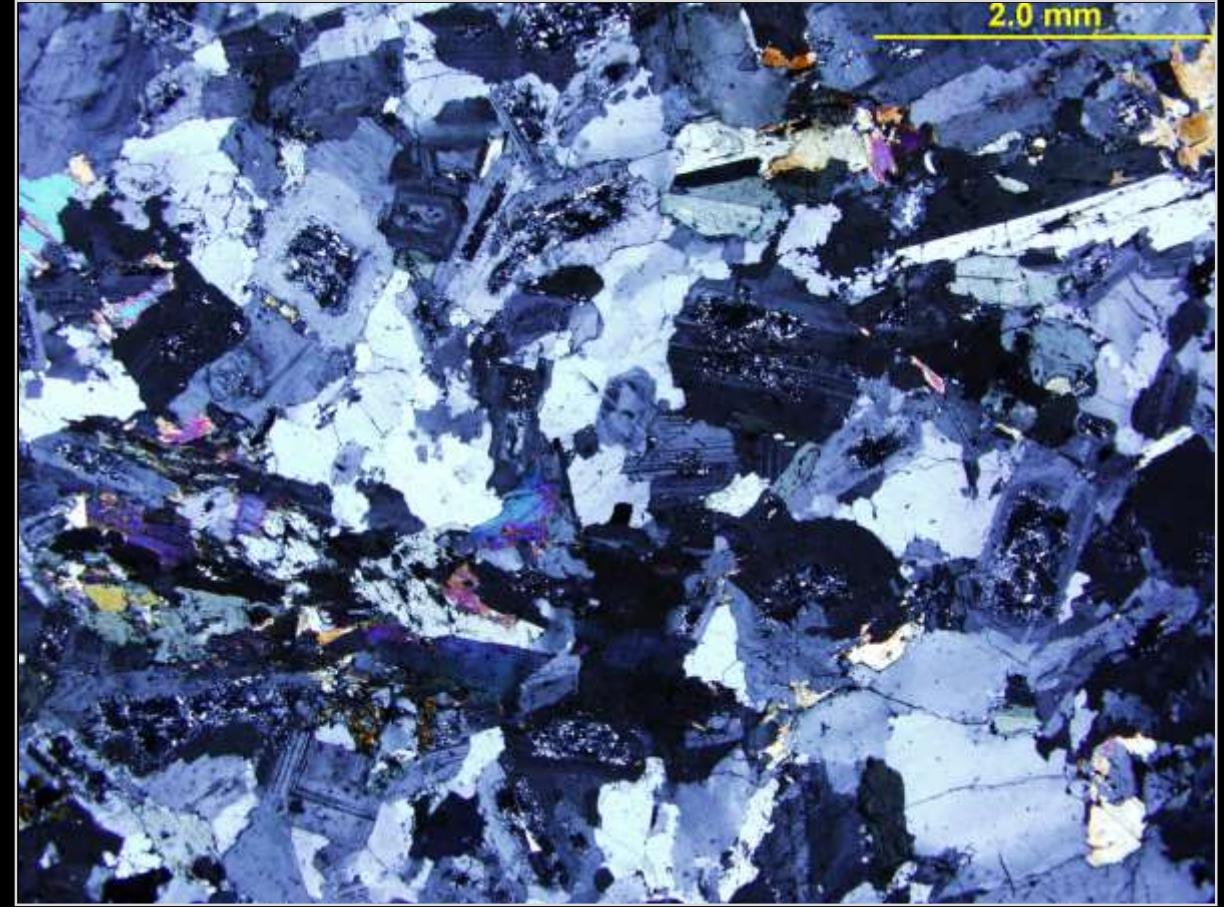
Plane transmitted and cross polarized light microphotographs

# Sample PLD-29-8



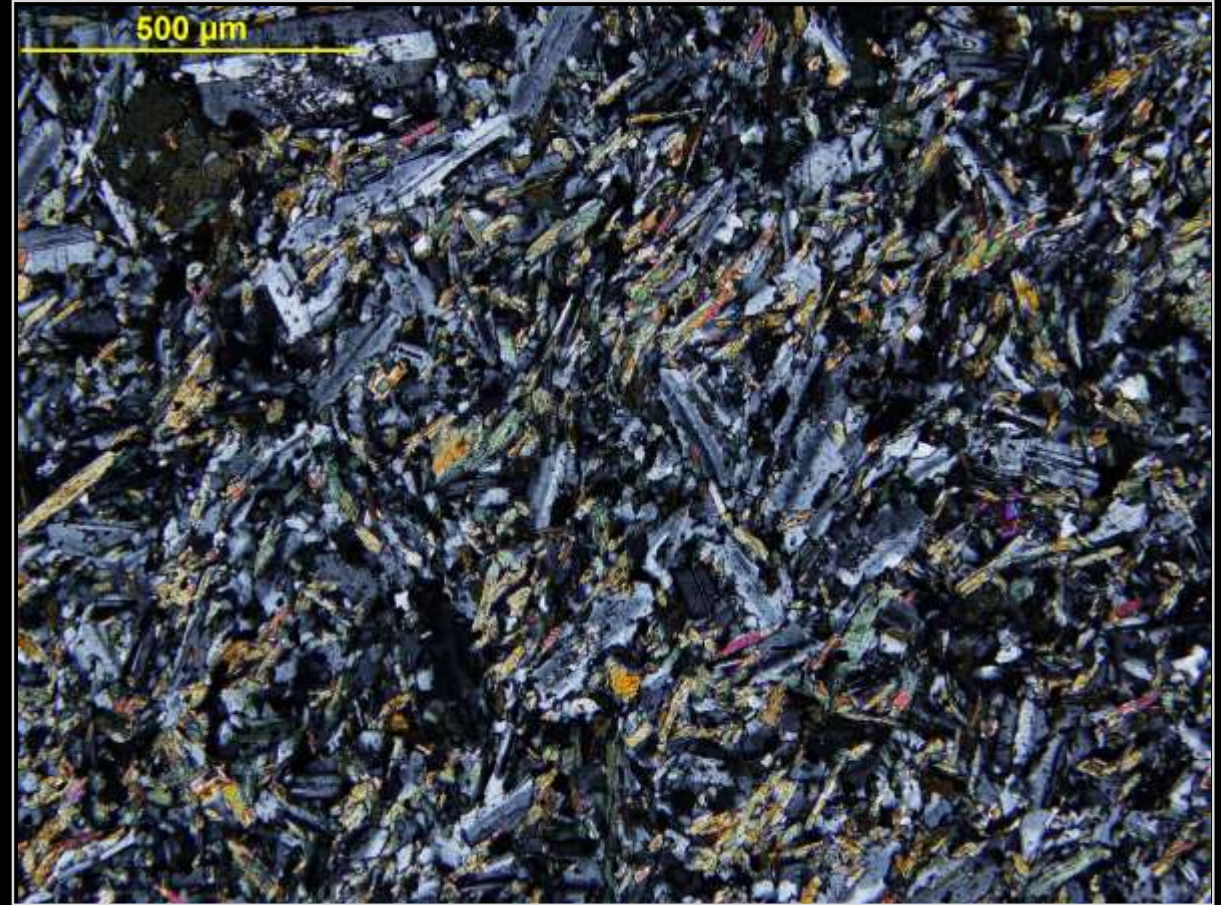
Plane transmitted and cross polarized light microphotographs

# Sample PLD-30-5A



Plane transmitted and cross polarized light microphotographs

# Sample PLD-31-6B



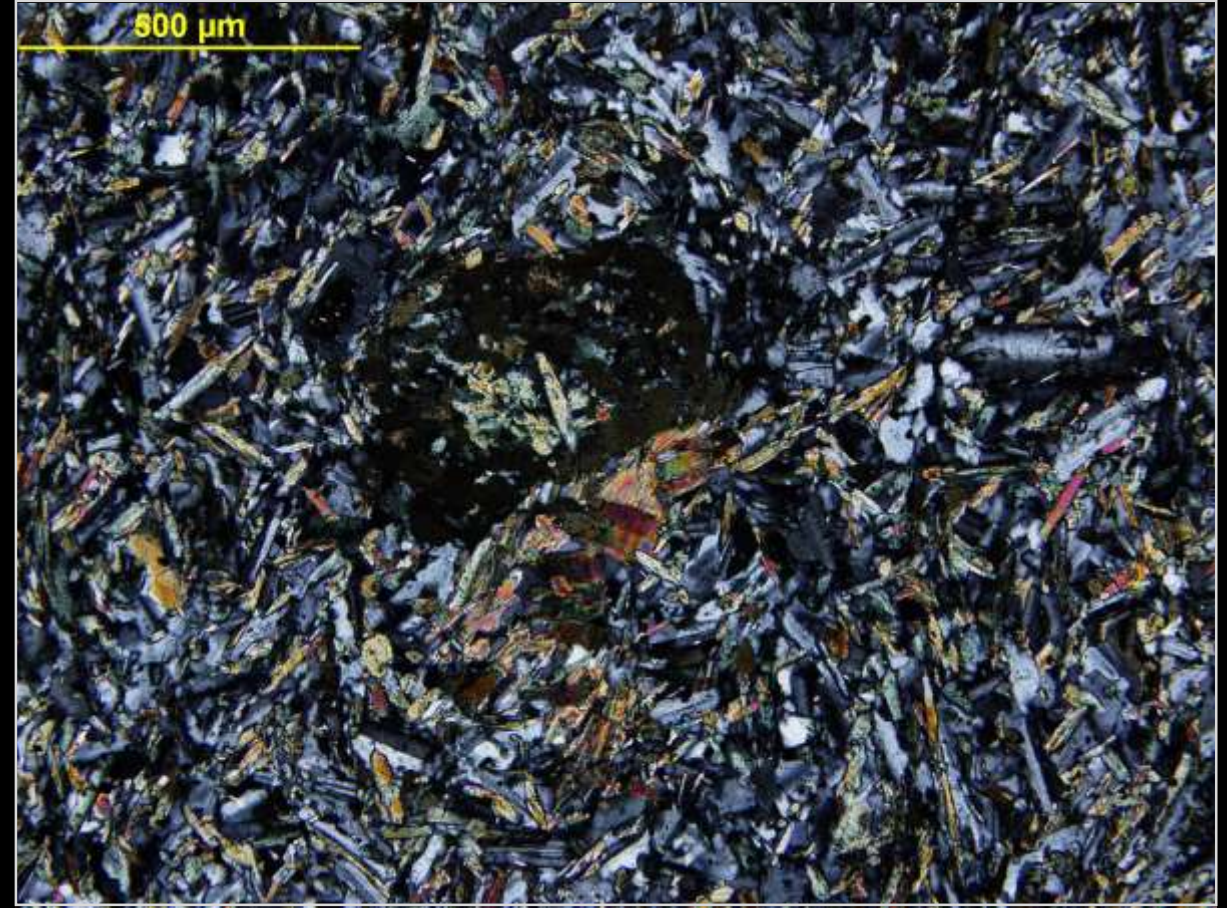
Plane transmitted and cross polarized light microphotographs

# Sample PLD-31-6B



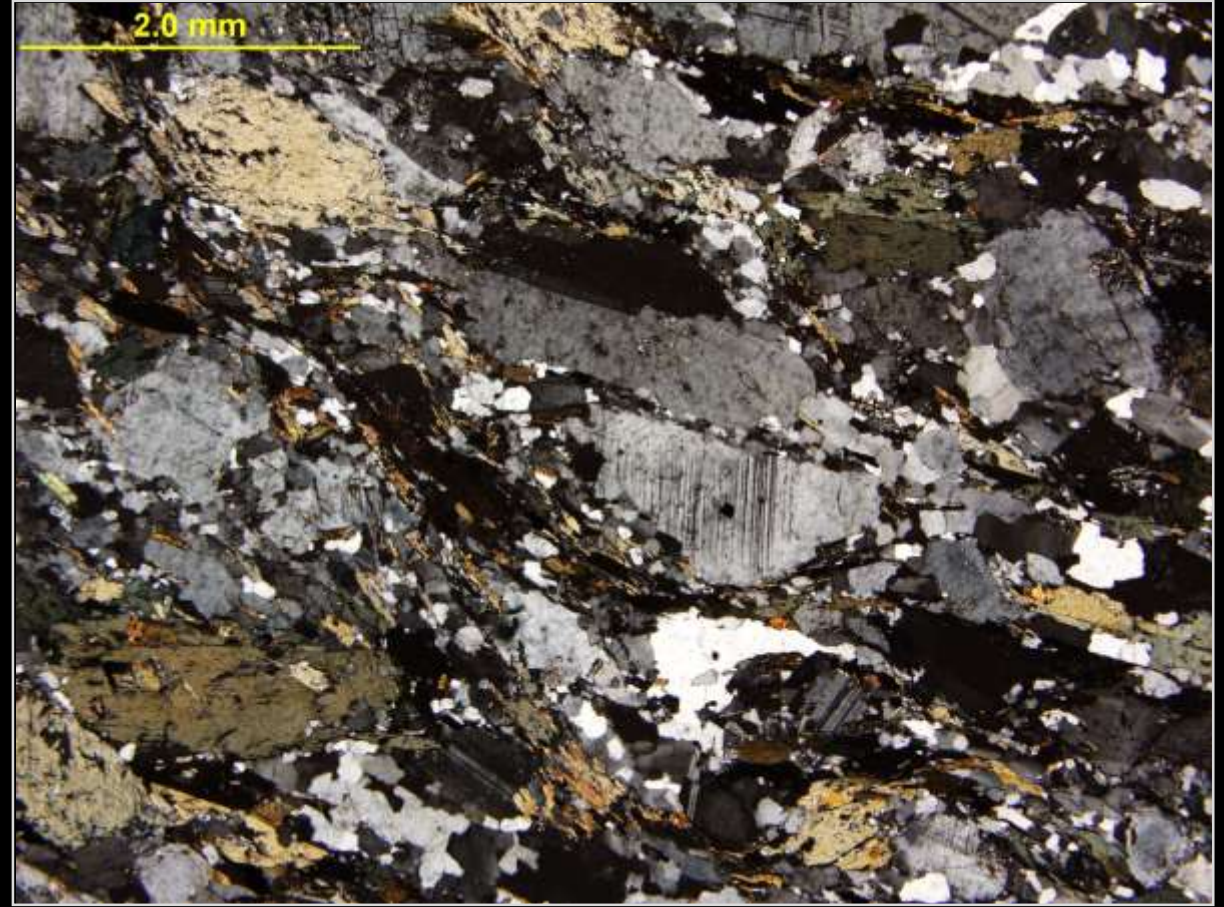
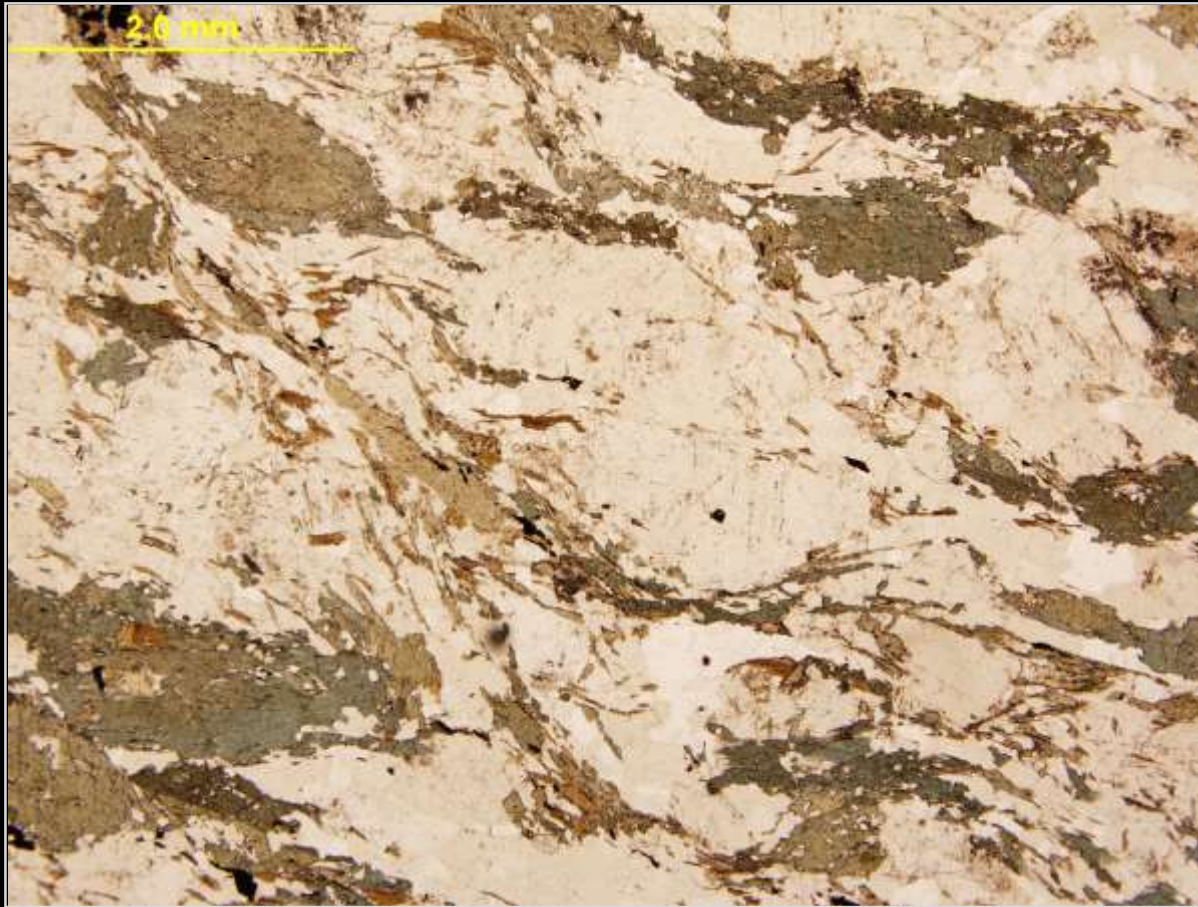
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# Sample PLD-31-6B



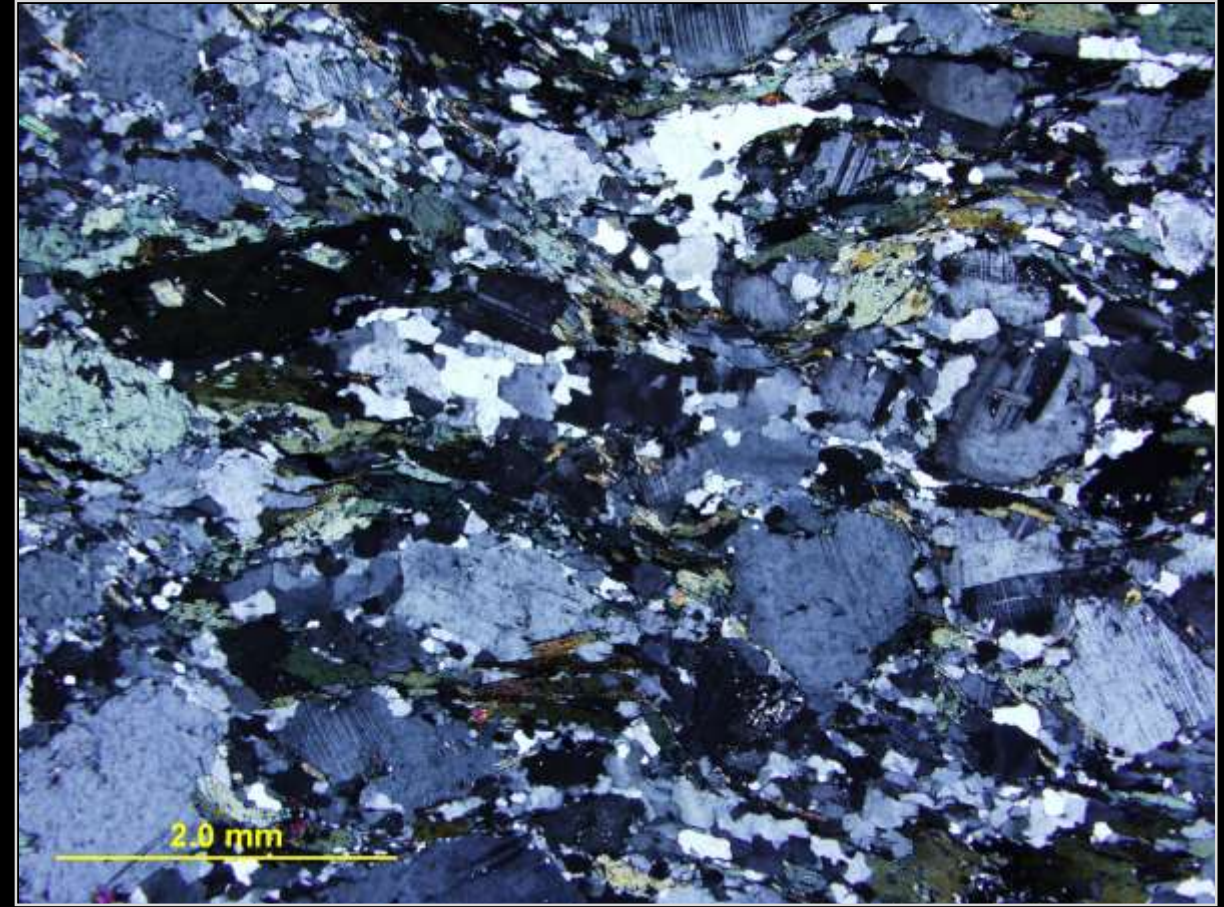
Plane transmitted and cross polarized light microphotographs

# Sample PMD-8-4



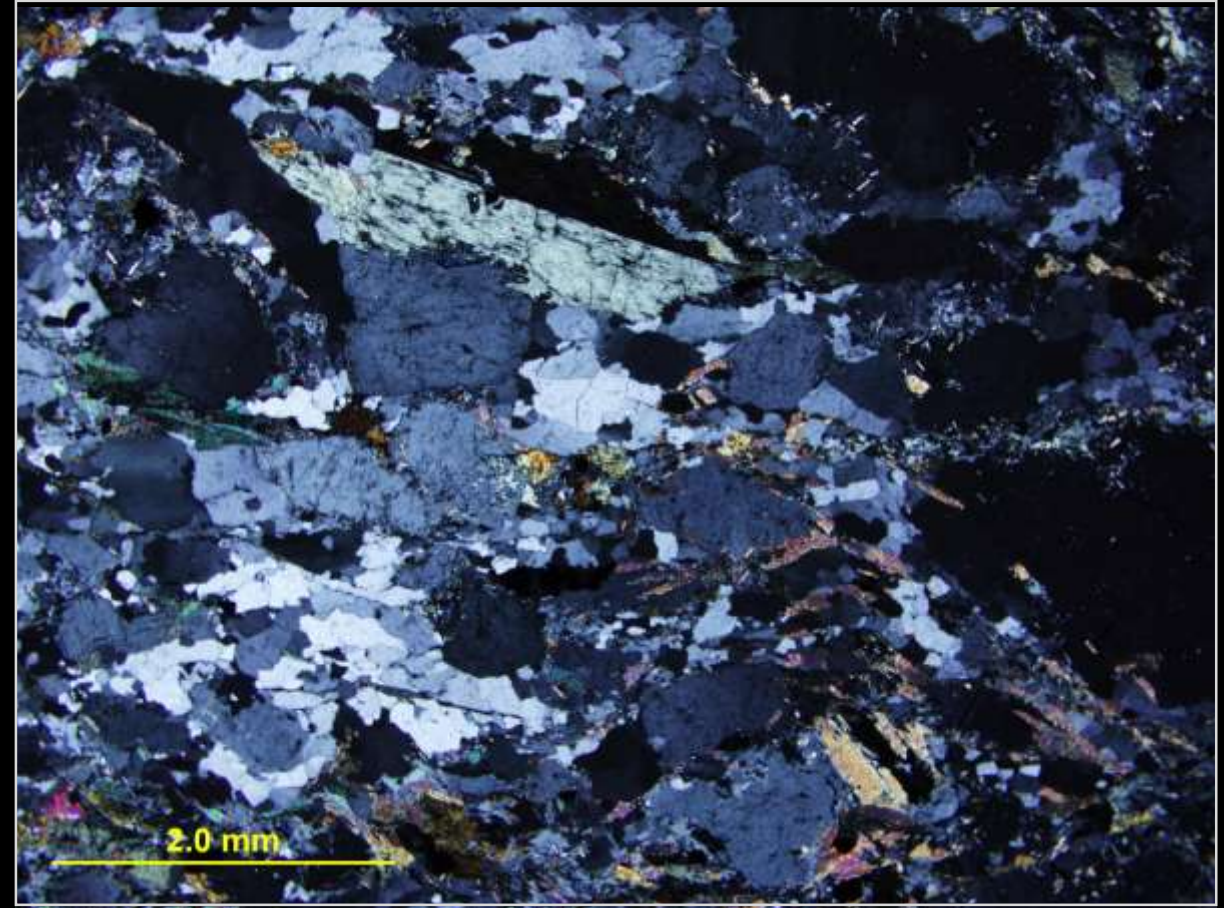
Plane transmitted and cross polarized light microphotographs

# Sample PMD-8-4



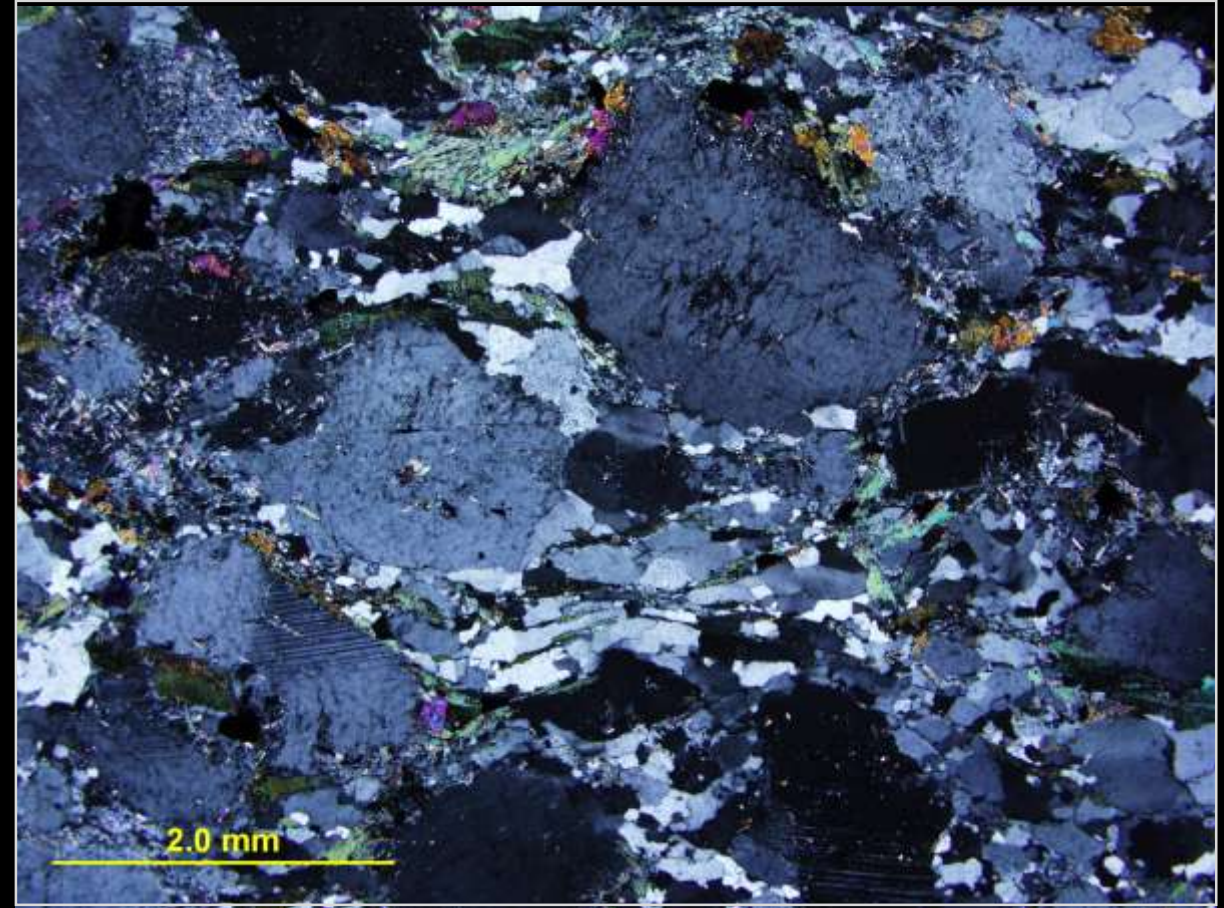
Plane transmitted and cross polarized light microphotographs

# Sample PMD-9-5



Plane transmitted and cross polarized light microphotographs

# Sample PMD-9-5



Plane transmitted and cross polarized light microphotographs