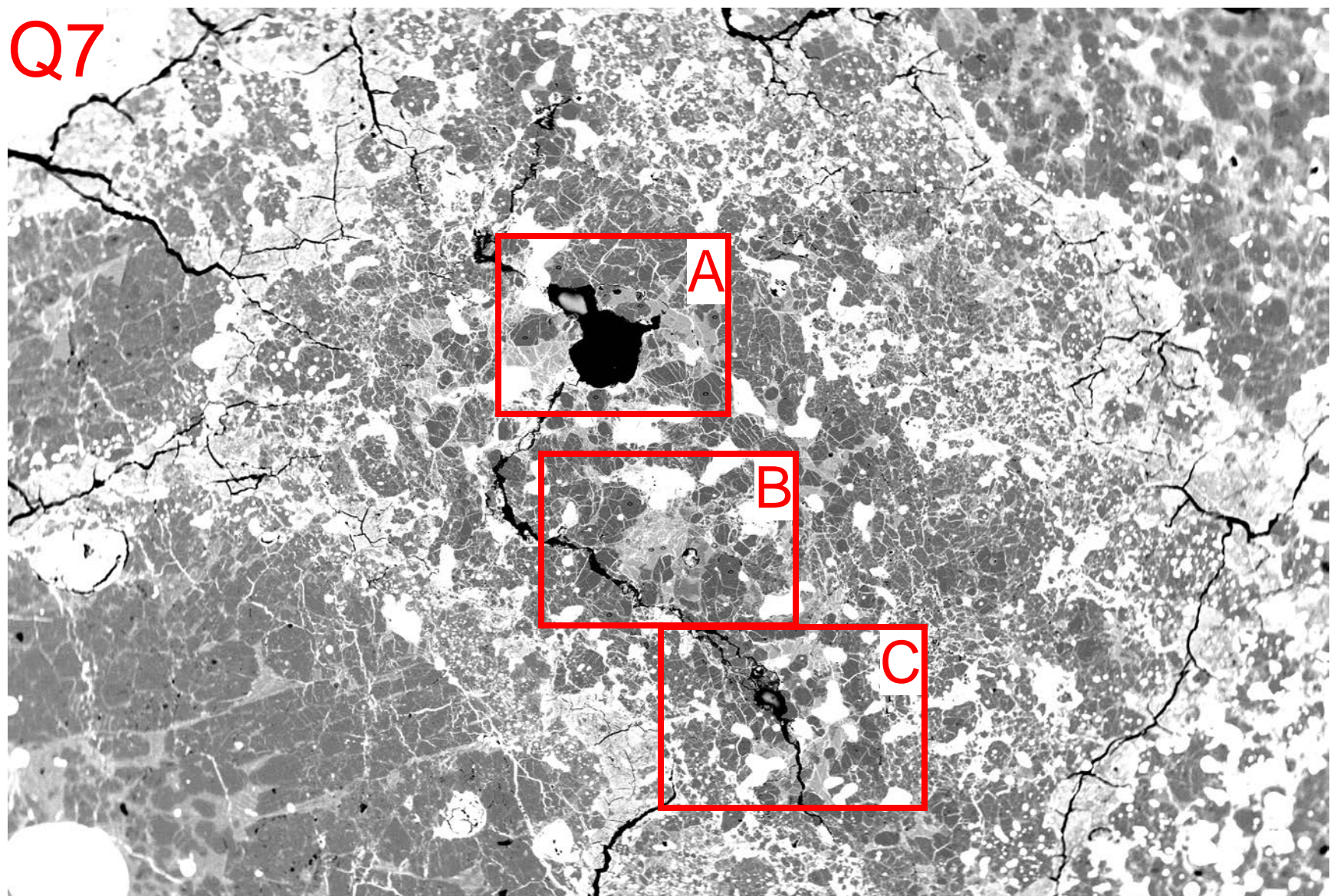


**EA4.** BSE images of chondrules, showing regions analyzed by SIMS Al-Mg isotope systematics. Unless otherwise noted, labeled regions of interest and subsequent SIMS pits are those of plagioclase. Olivine (Ol) and low-Ca pyroxene (LPx) are designated as such. In the images of SIMS pits, scalebars are 10 microns.



Q7

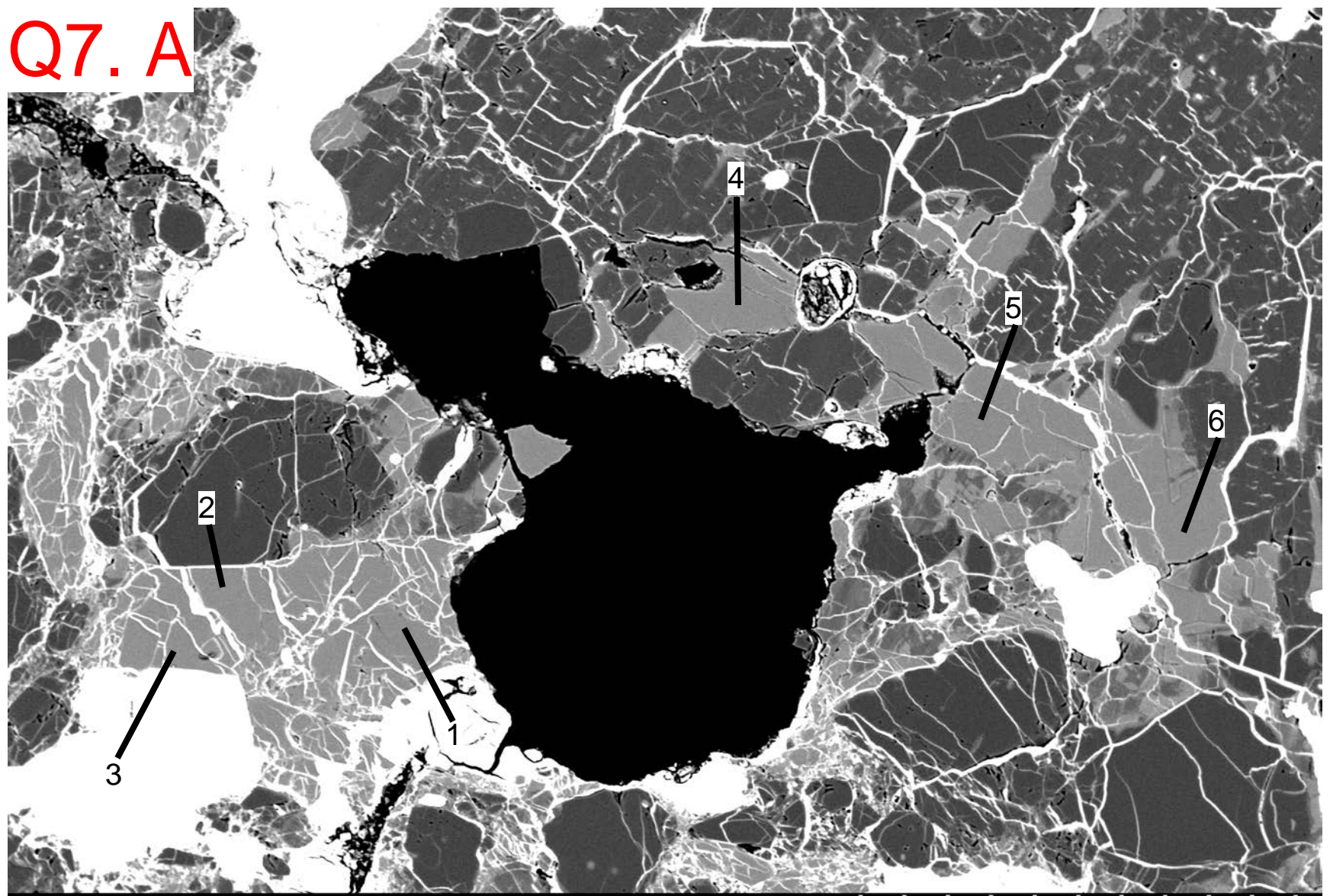
A

B

C

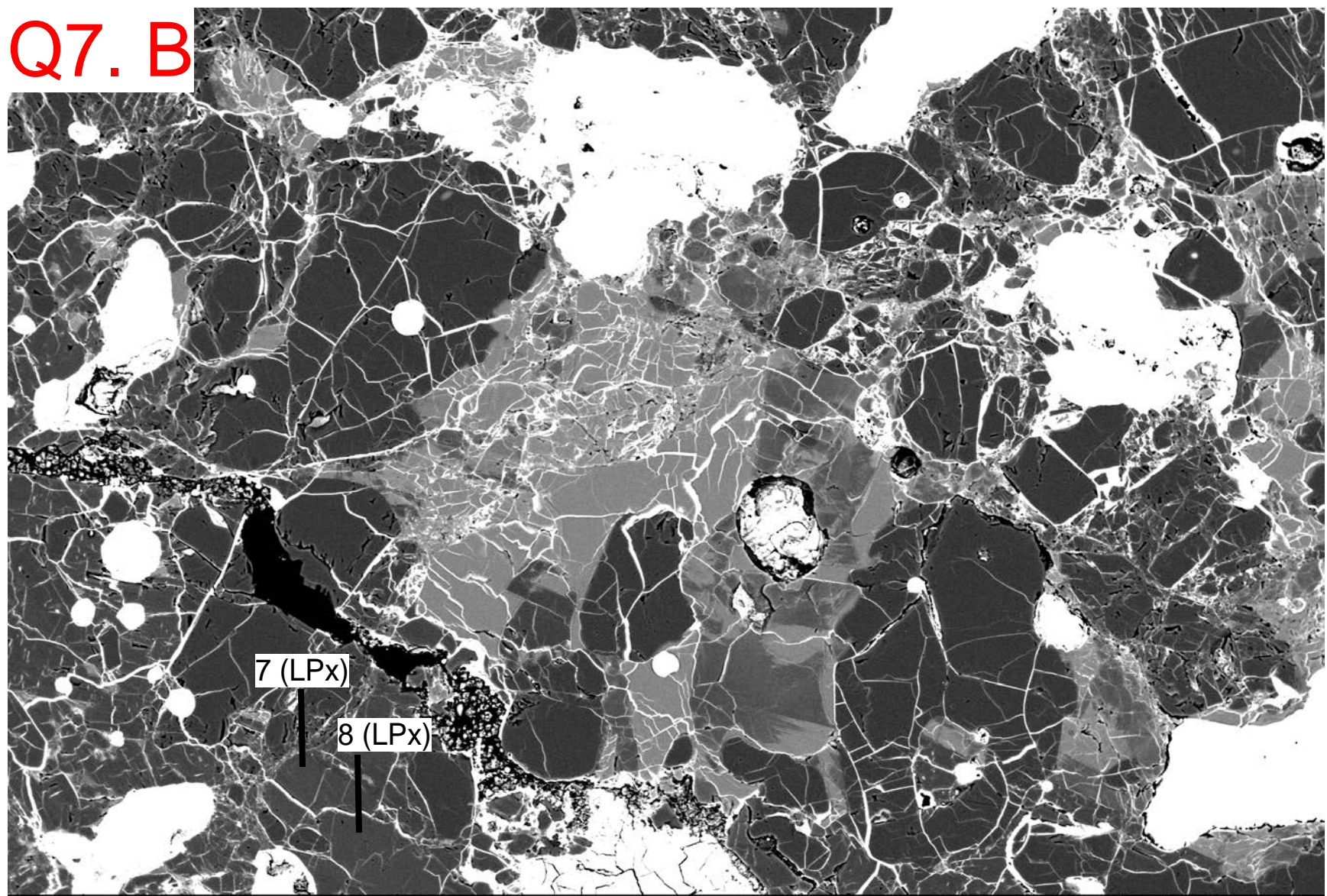


Q7. A





Q7. B



7 (LPx)

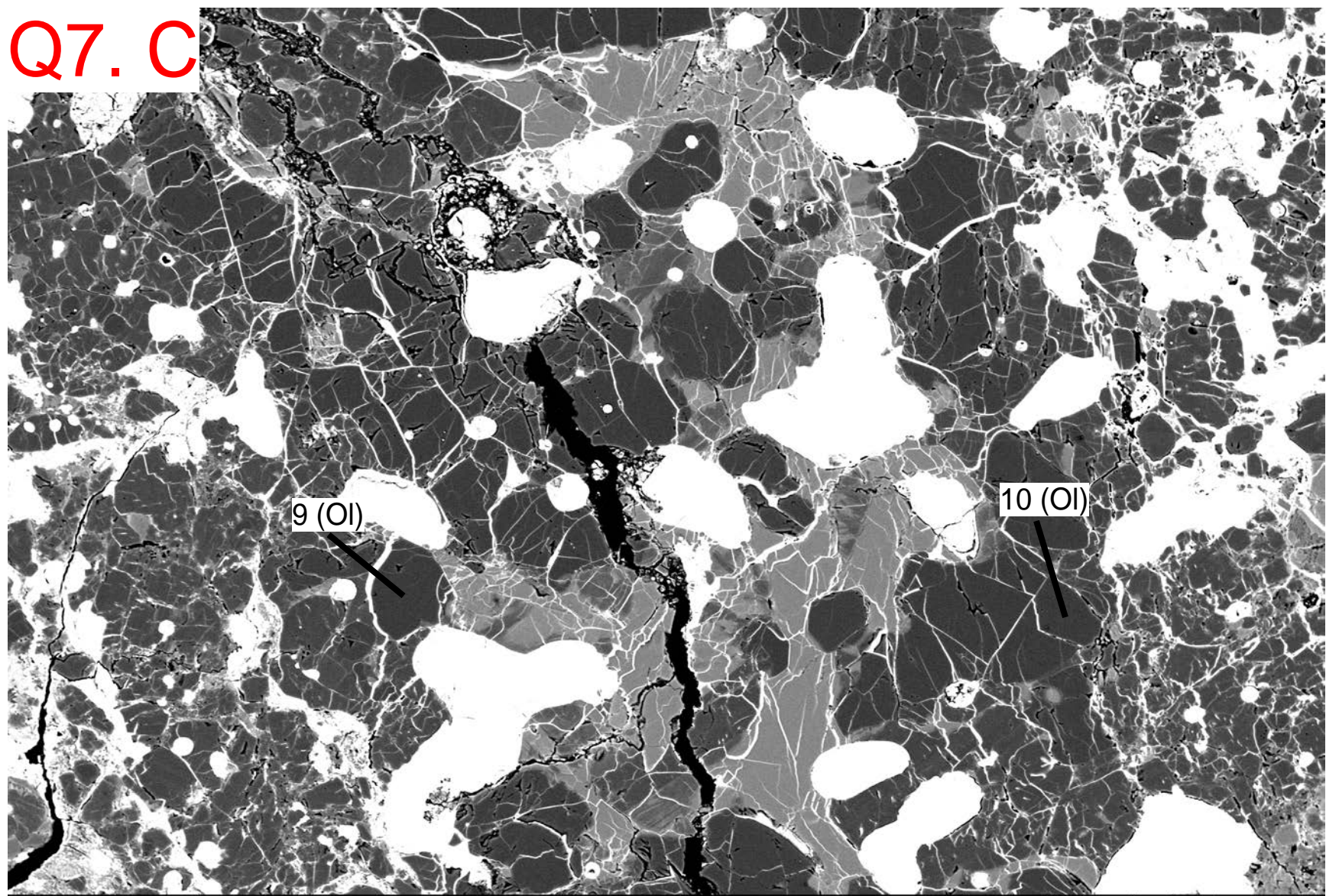
8 (LPx)

Q7 15.0kV x210 BSECOMP

200um



Q7. C

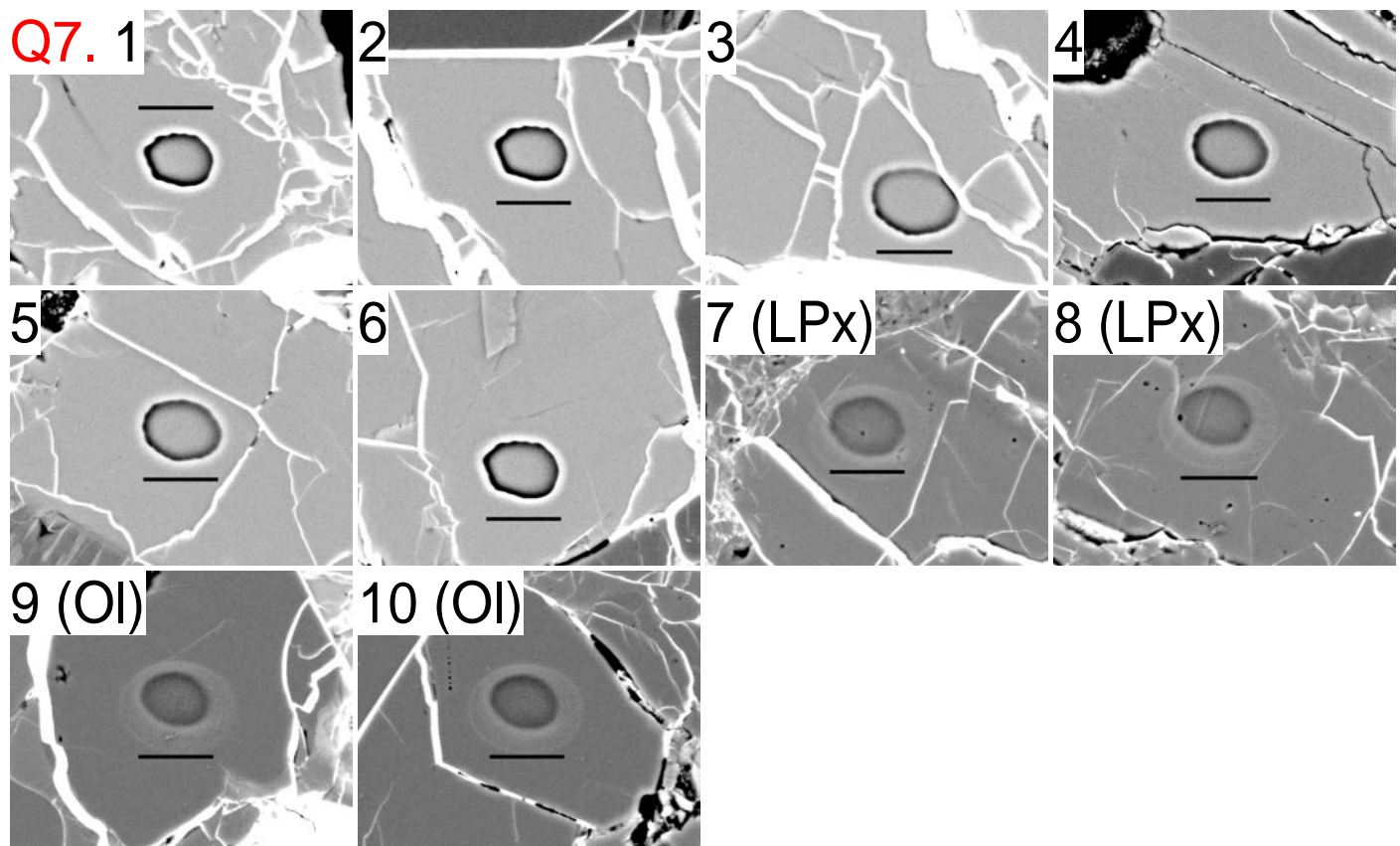


9 (OI)

10 (OI)

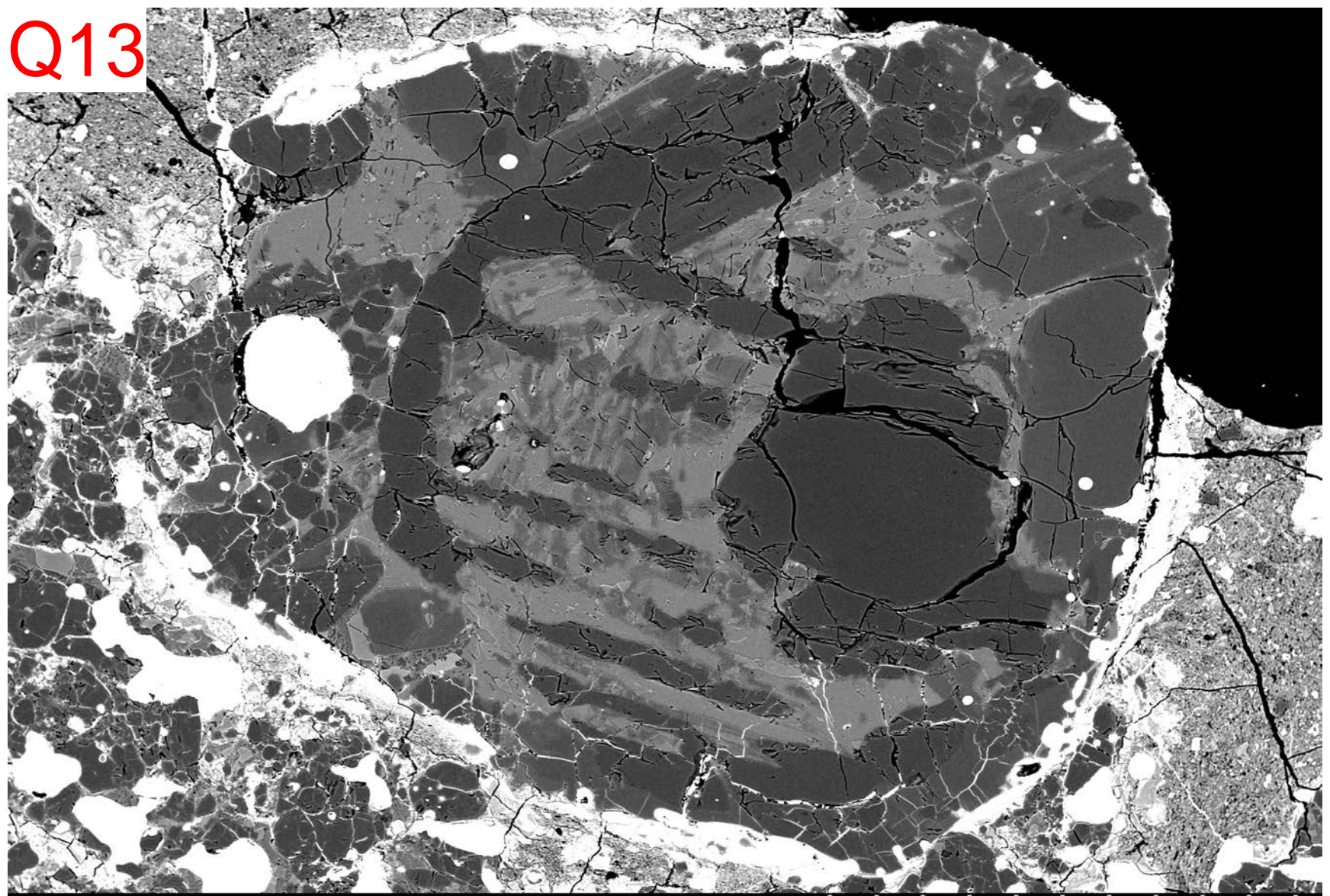
Q7 15.0kV x200 BSECOMP

200um





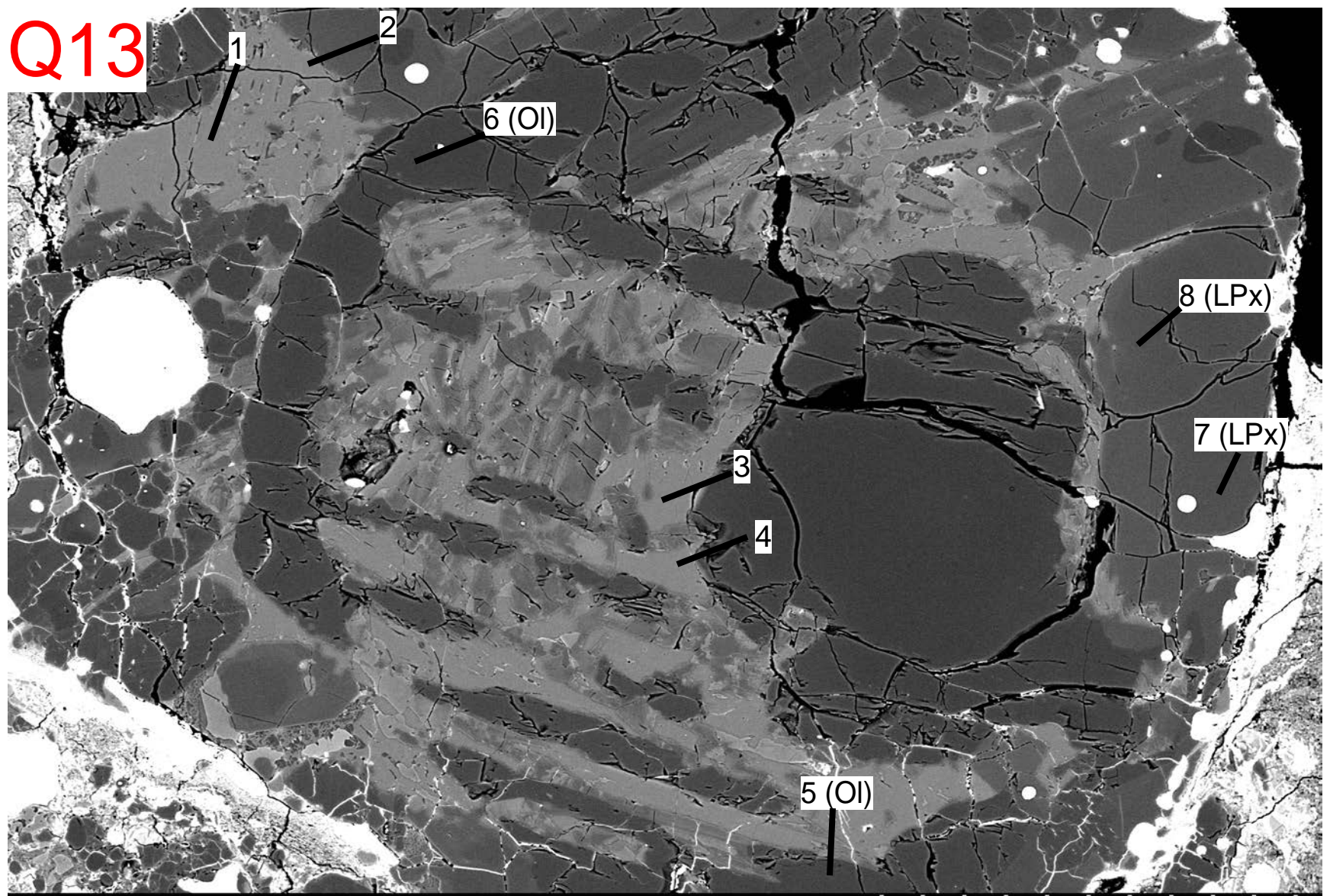
Q13



Q13 15.0kV x150 BSECOMP 300um



Q13

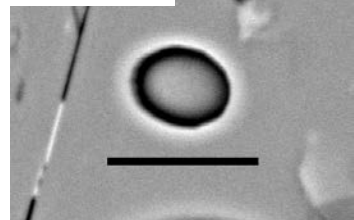


Q13 15.0kV x200 BSECOMP

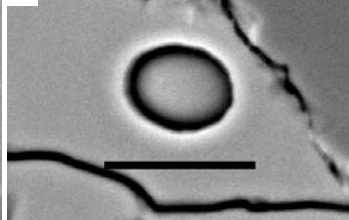
200um



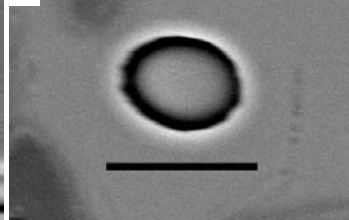
Q13. 1



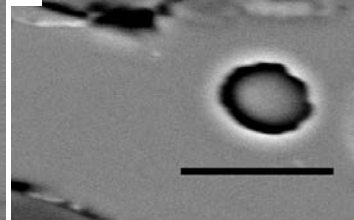
2



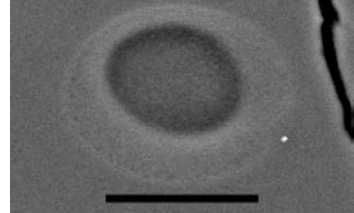
3



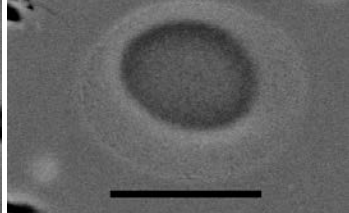
4



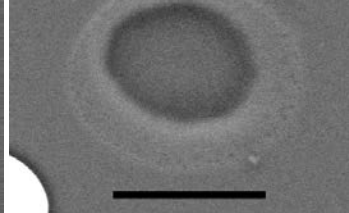
5 (OI)



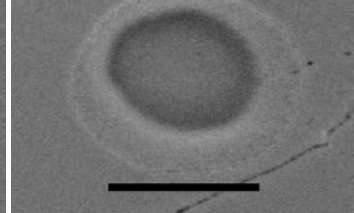
6 (OI)



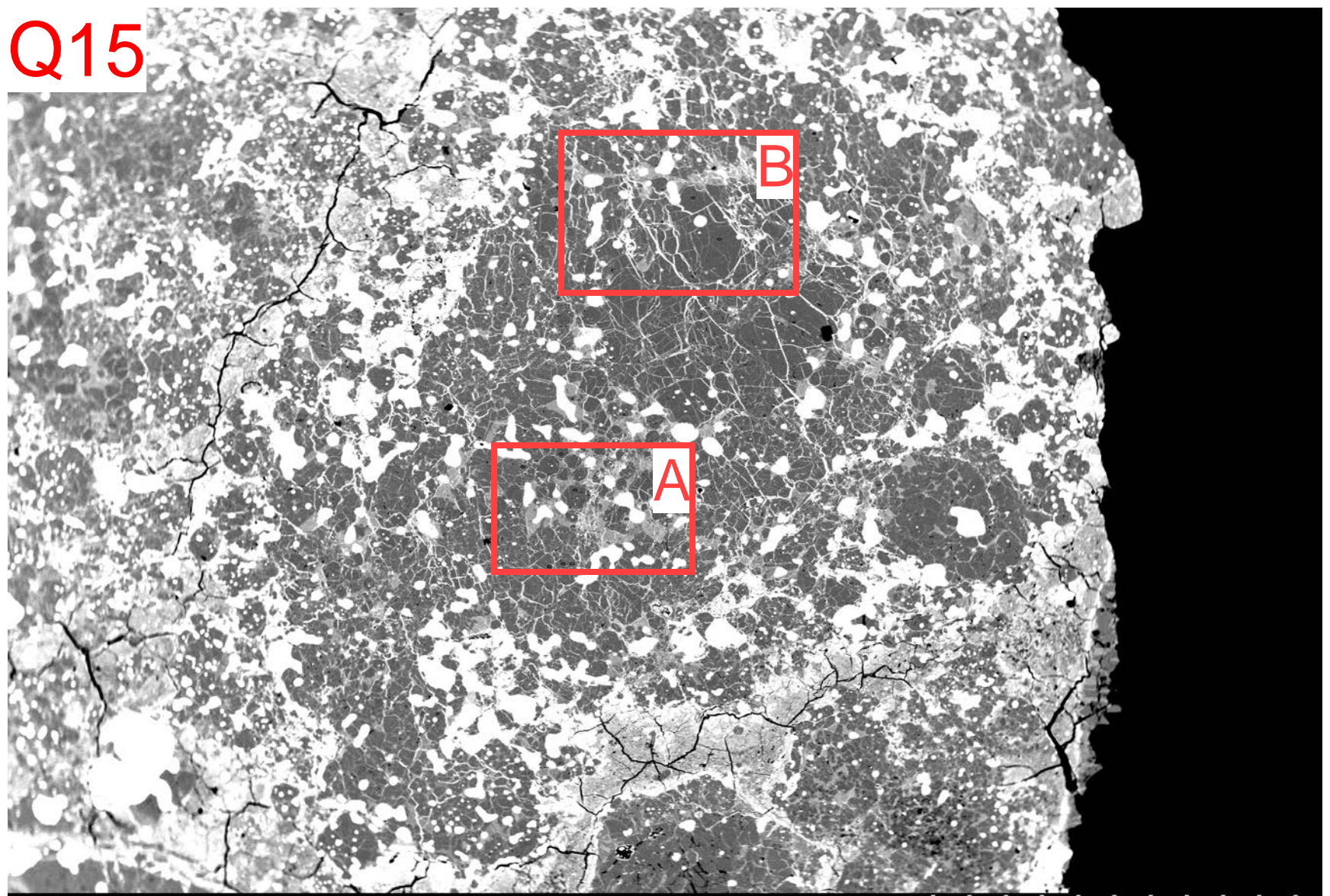
7 (LPx)



8 (LPx)



Q15



A

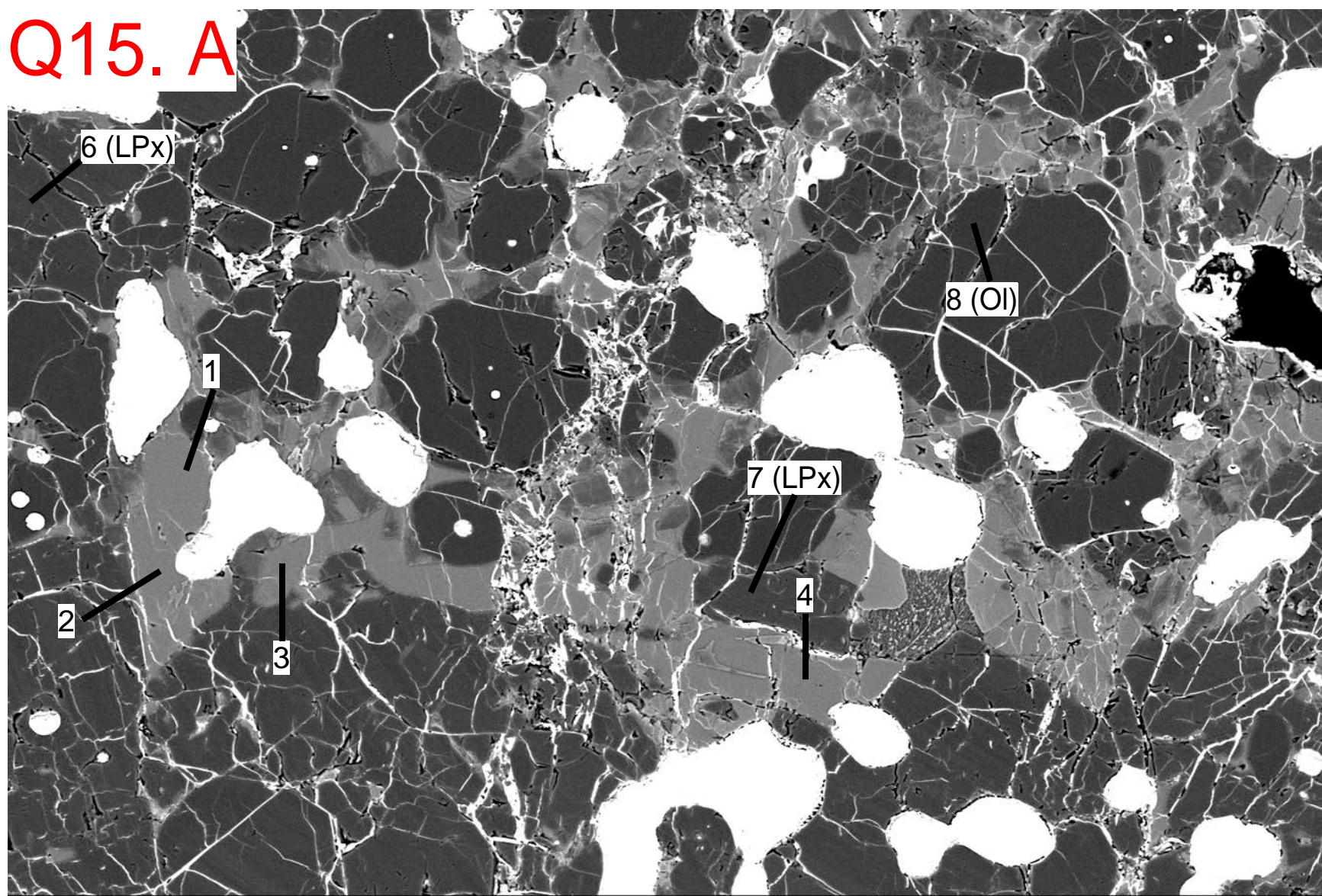
B

Q15 15.0kV x35 BSECOMP

1.00mm



Q15. A



6 (LPx)

1

8 (Ol)

7 (LPx)

2

3

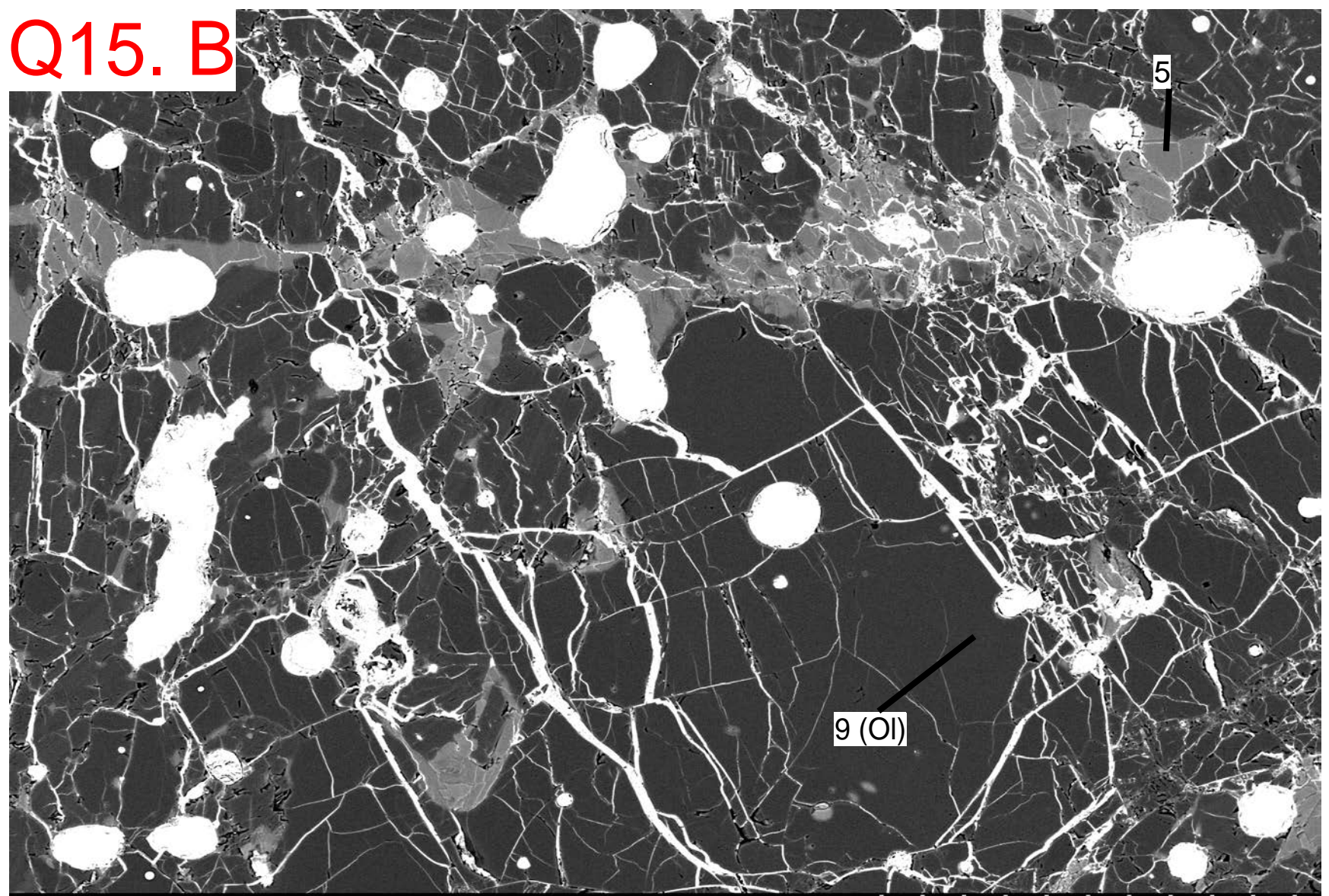
4

Q15 15.0kV x250 BSECOMP

200um



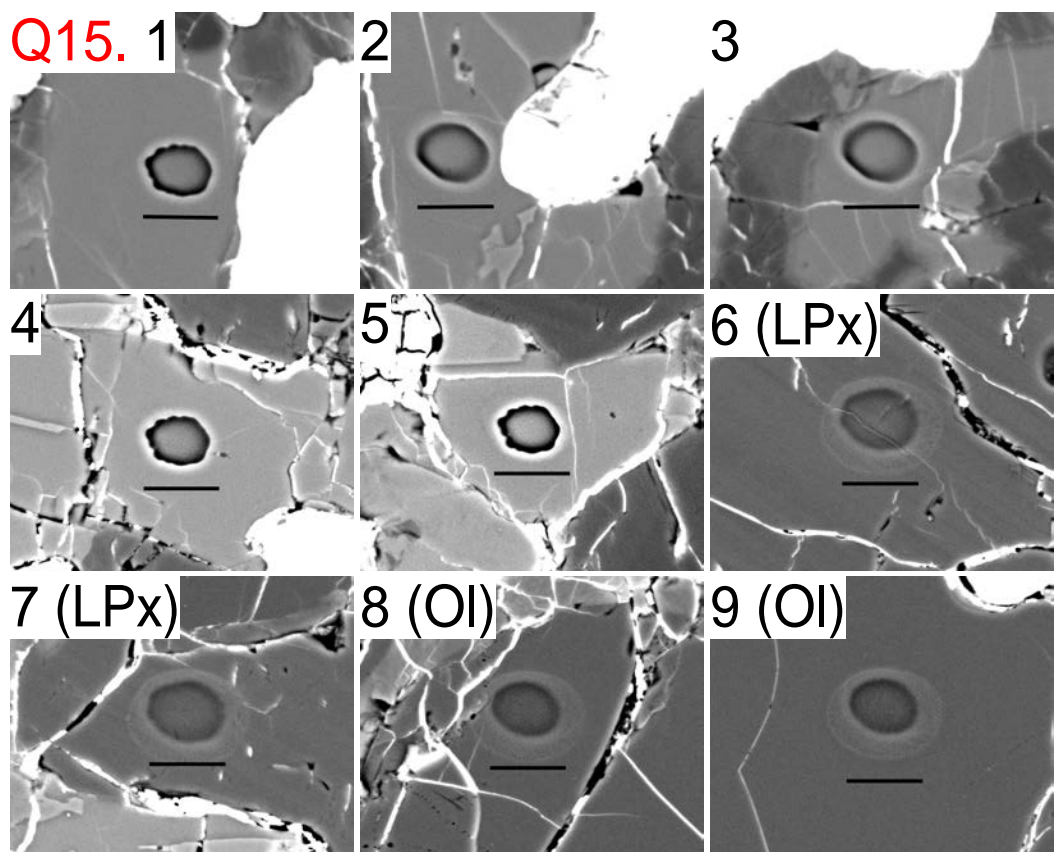
Q15. B



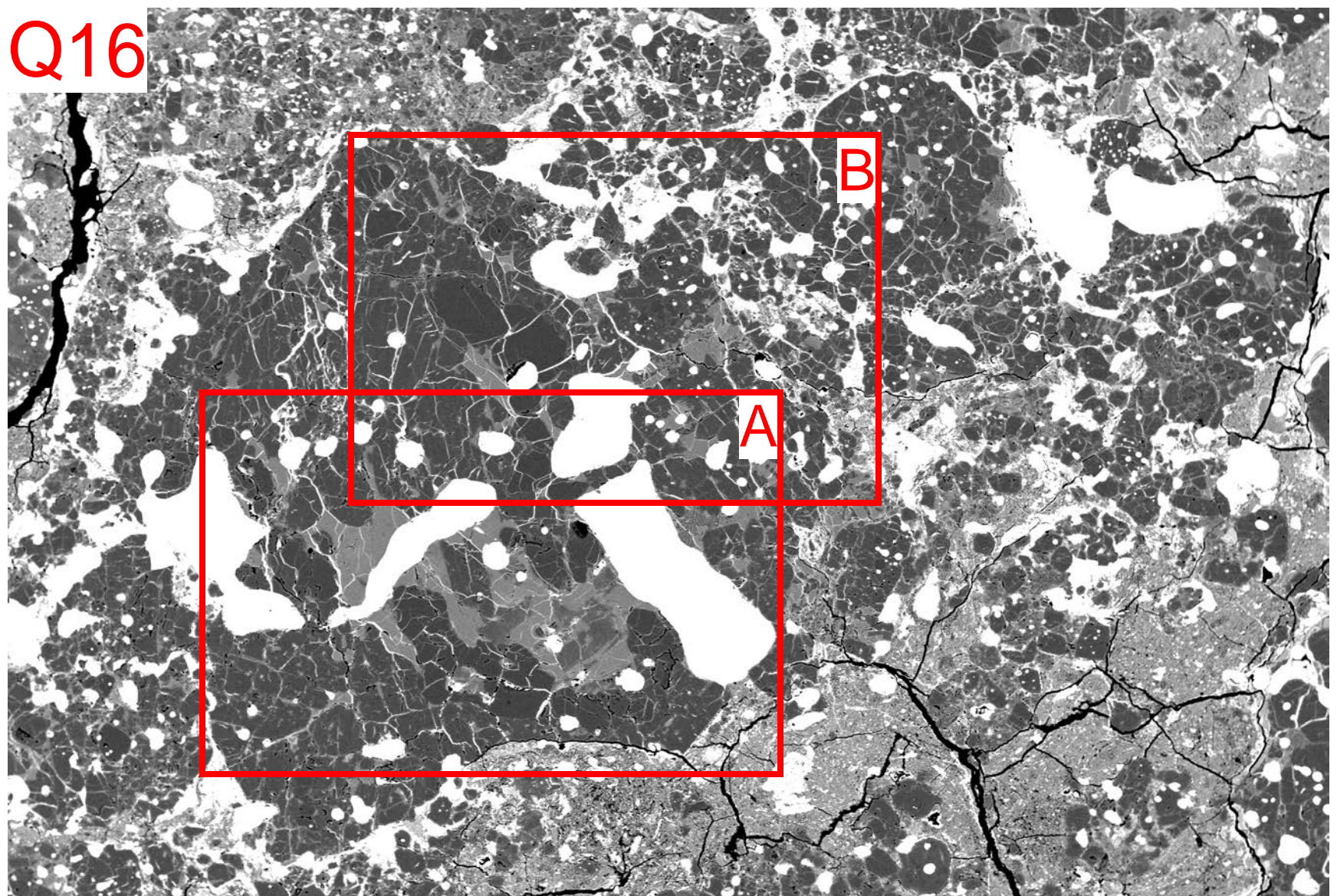
5

9 (OI)





Q16

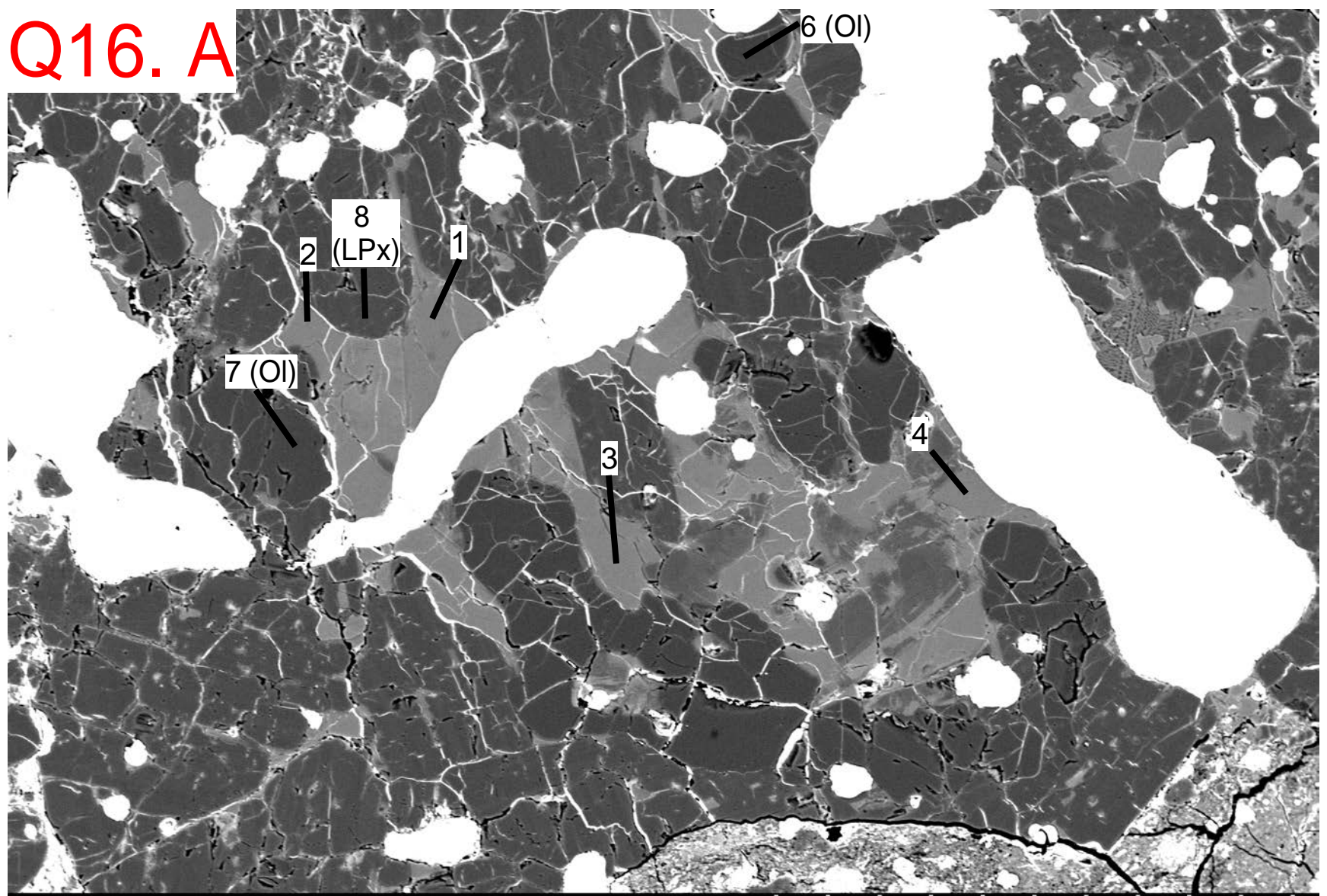


A

B

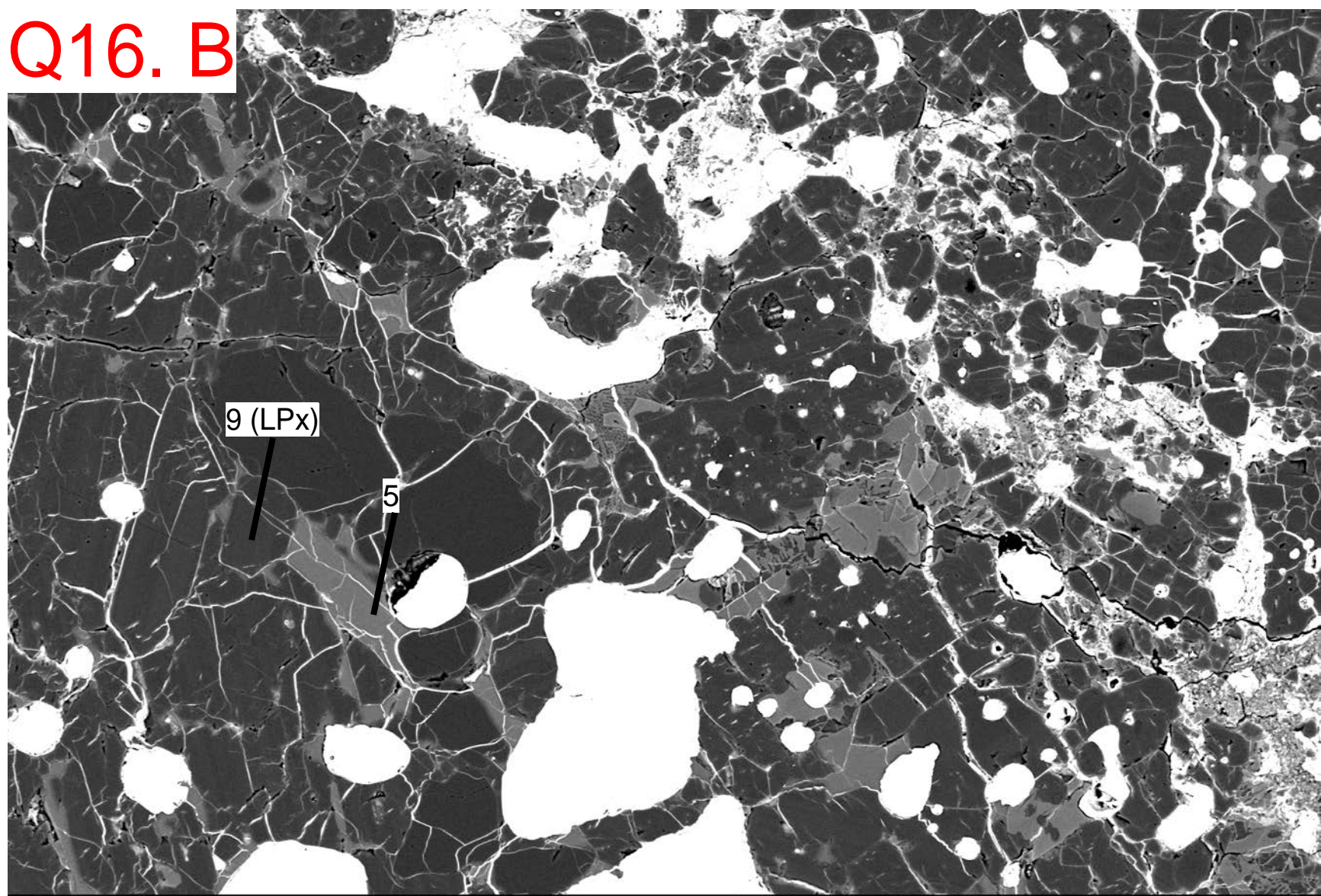


Q16. A





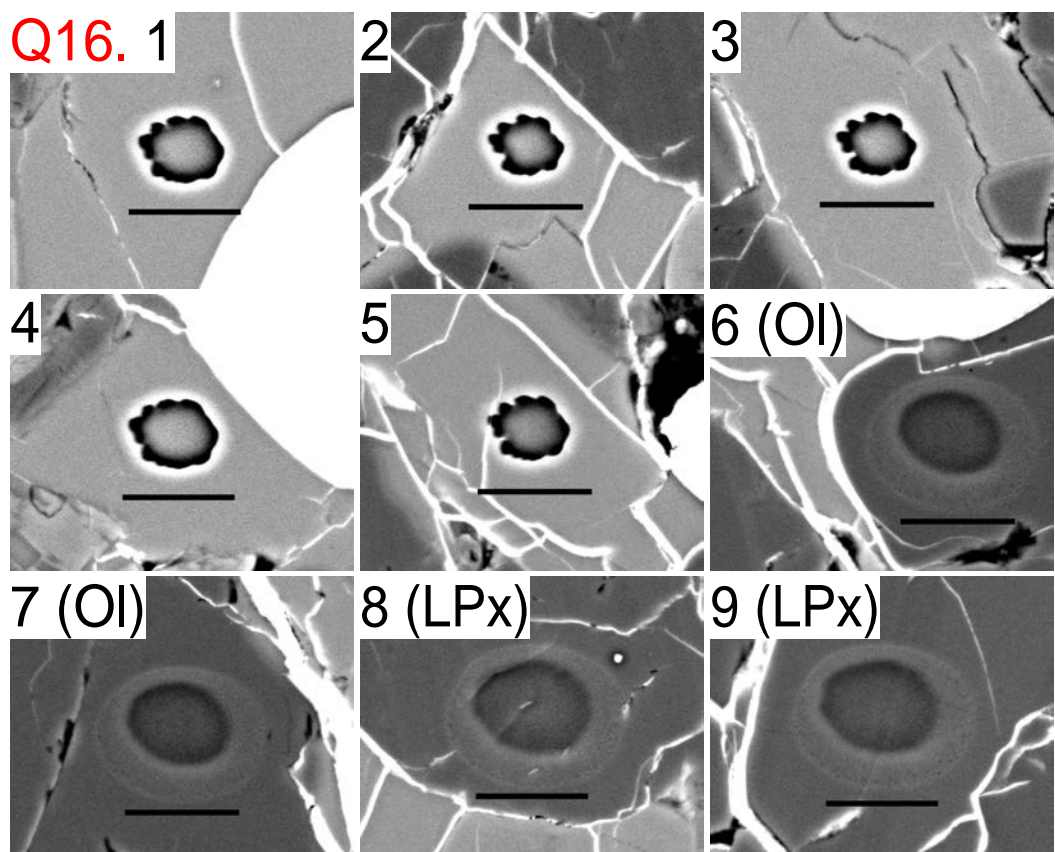
Q16. B



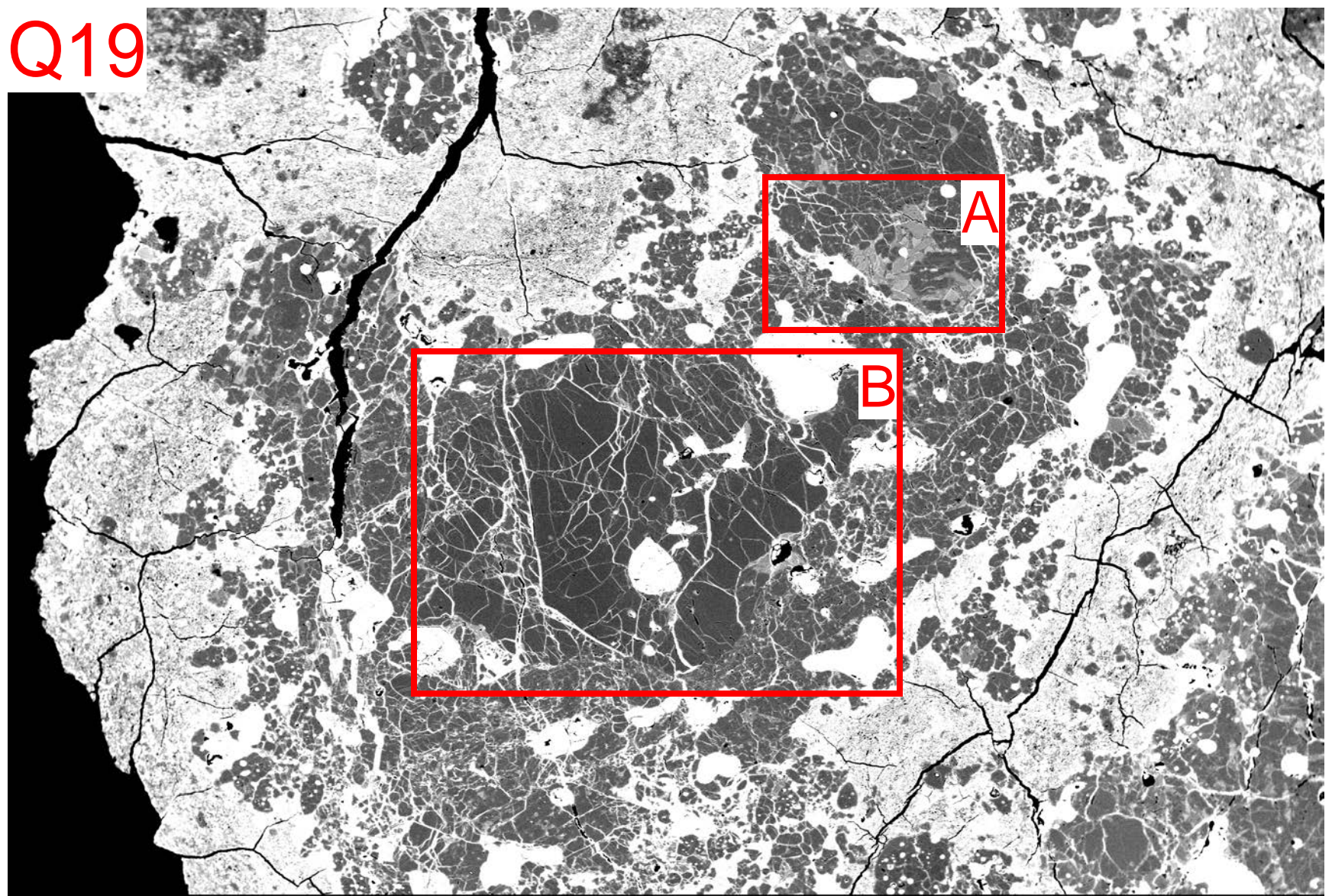
Q16 15.0kV x270 BSECOMP

200um





Q19



A

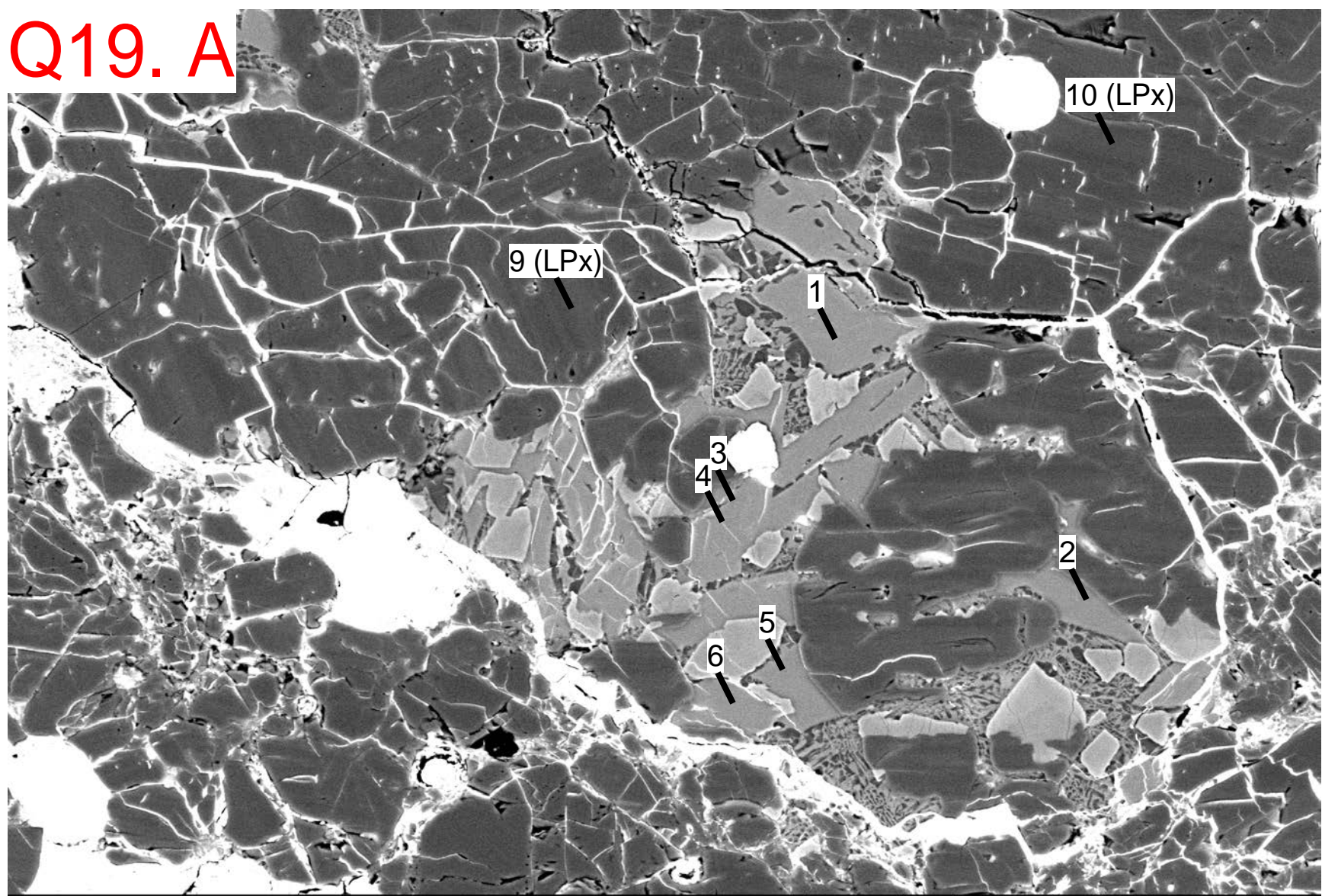
B

Q19 15.0kV x80 BSECOMP

500um



Q19. A

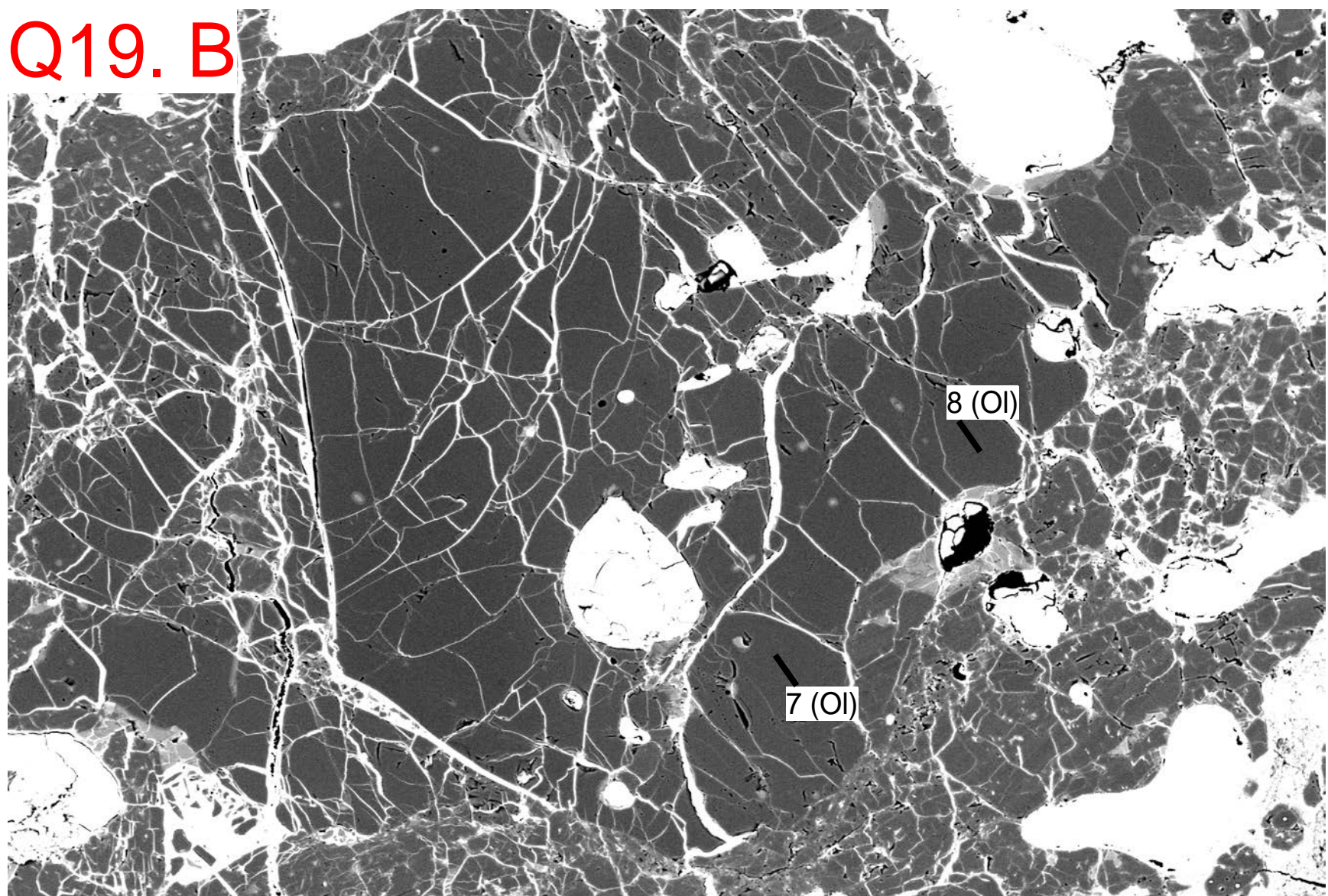


Q19 15.0kV x470 BSECOMP

100um



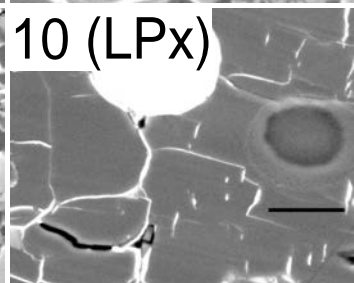
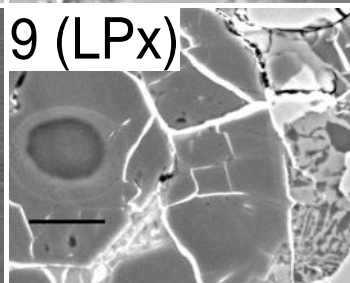
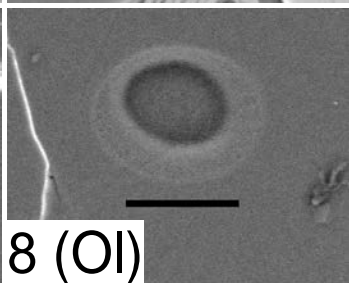
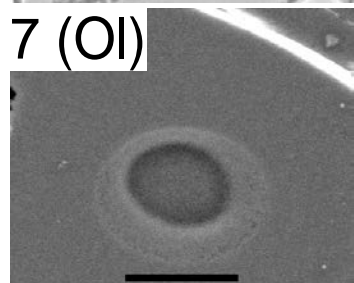
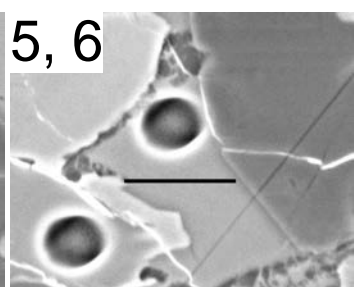
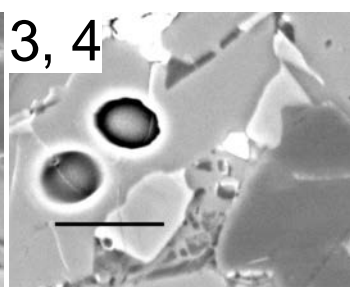
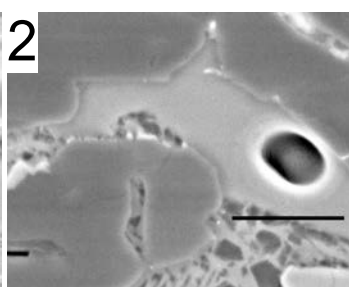
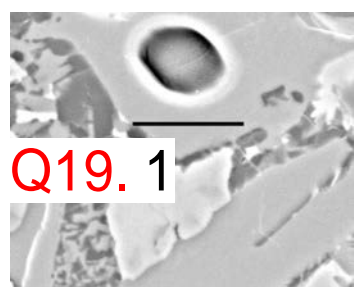
Q19. B



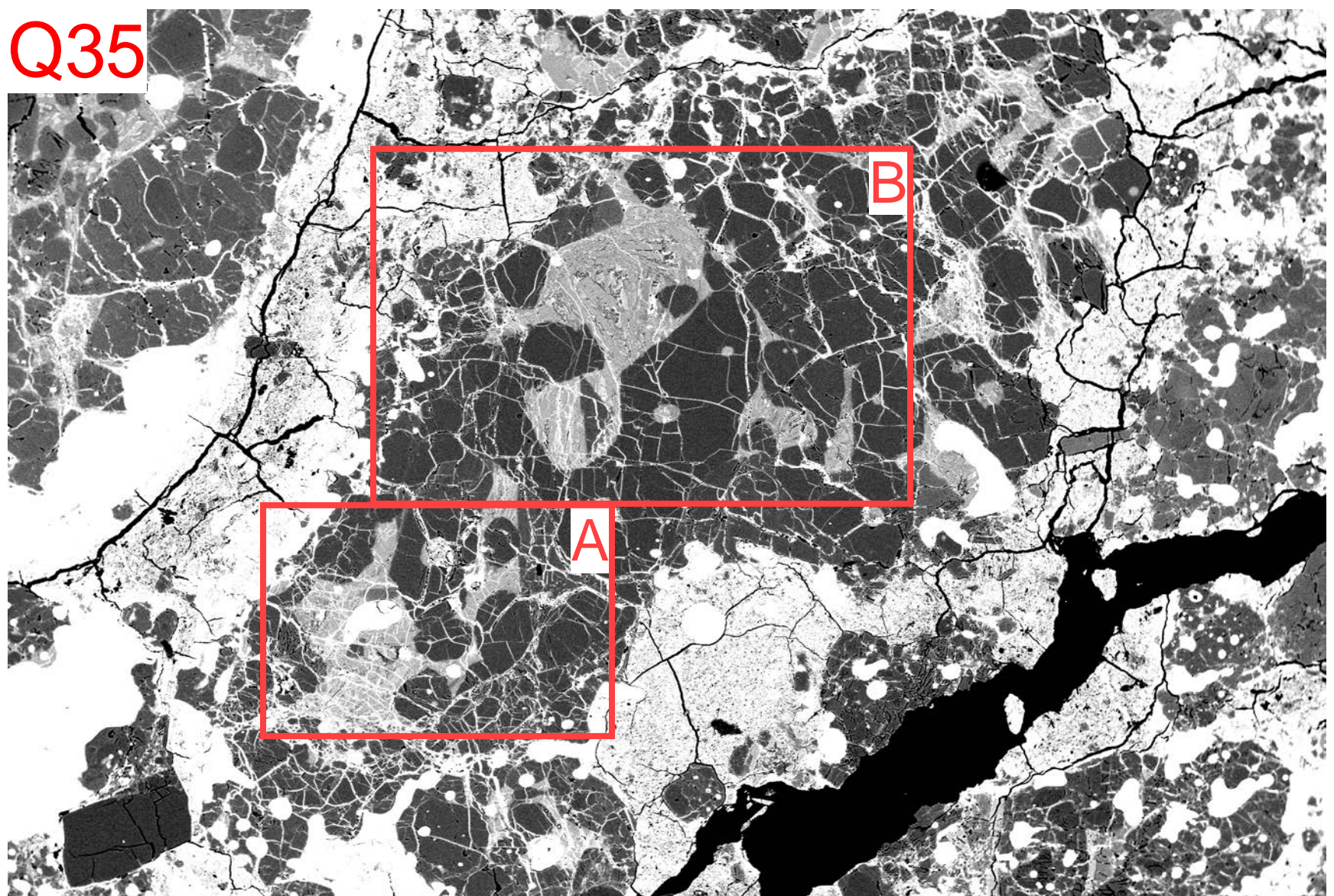
Q19 15.0kV x210 BSECOMP

200um





Q35

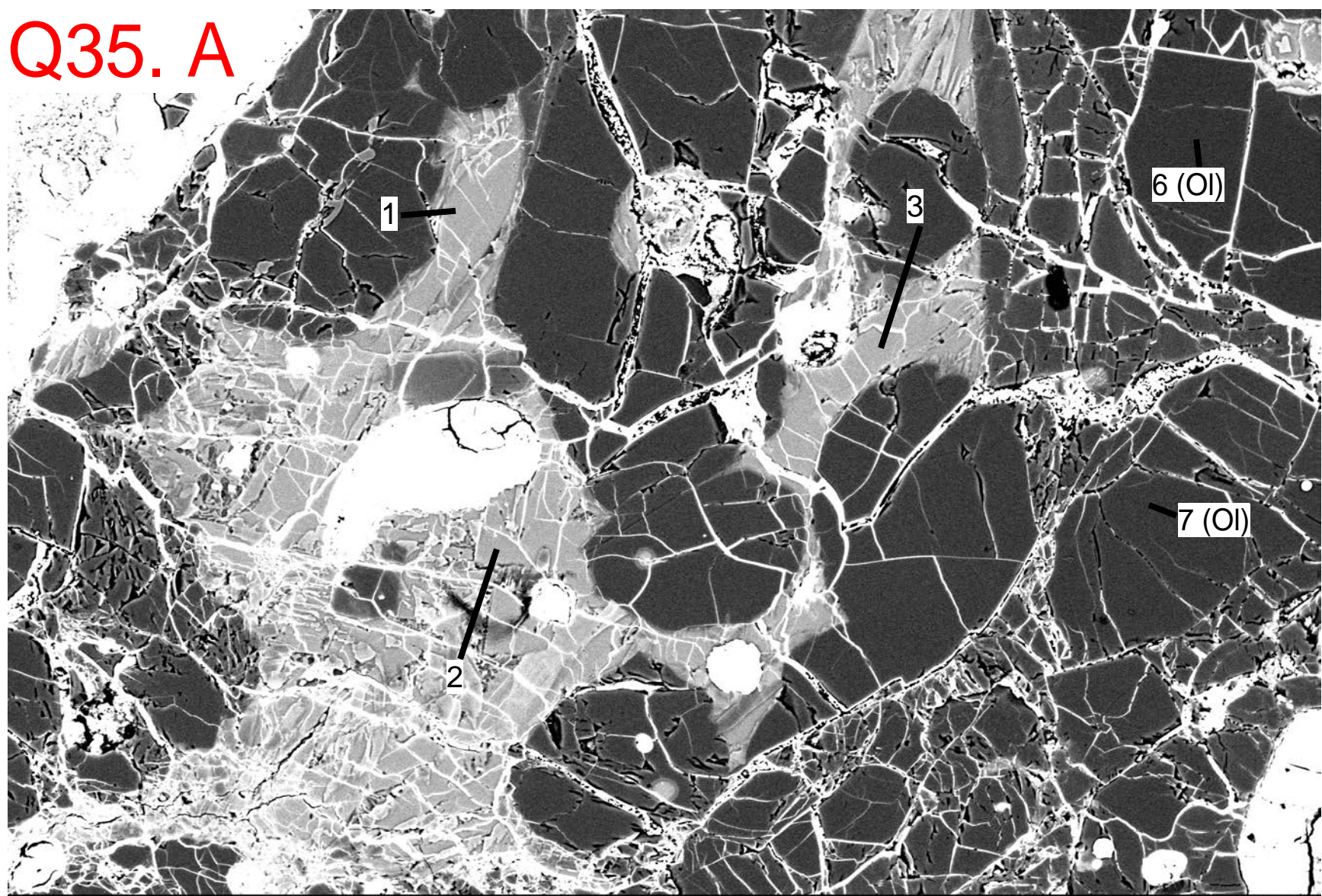


A

B



Q35. A

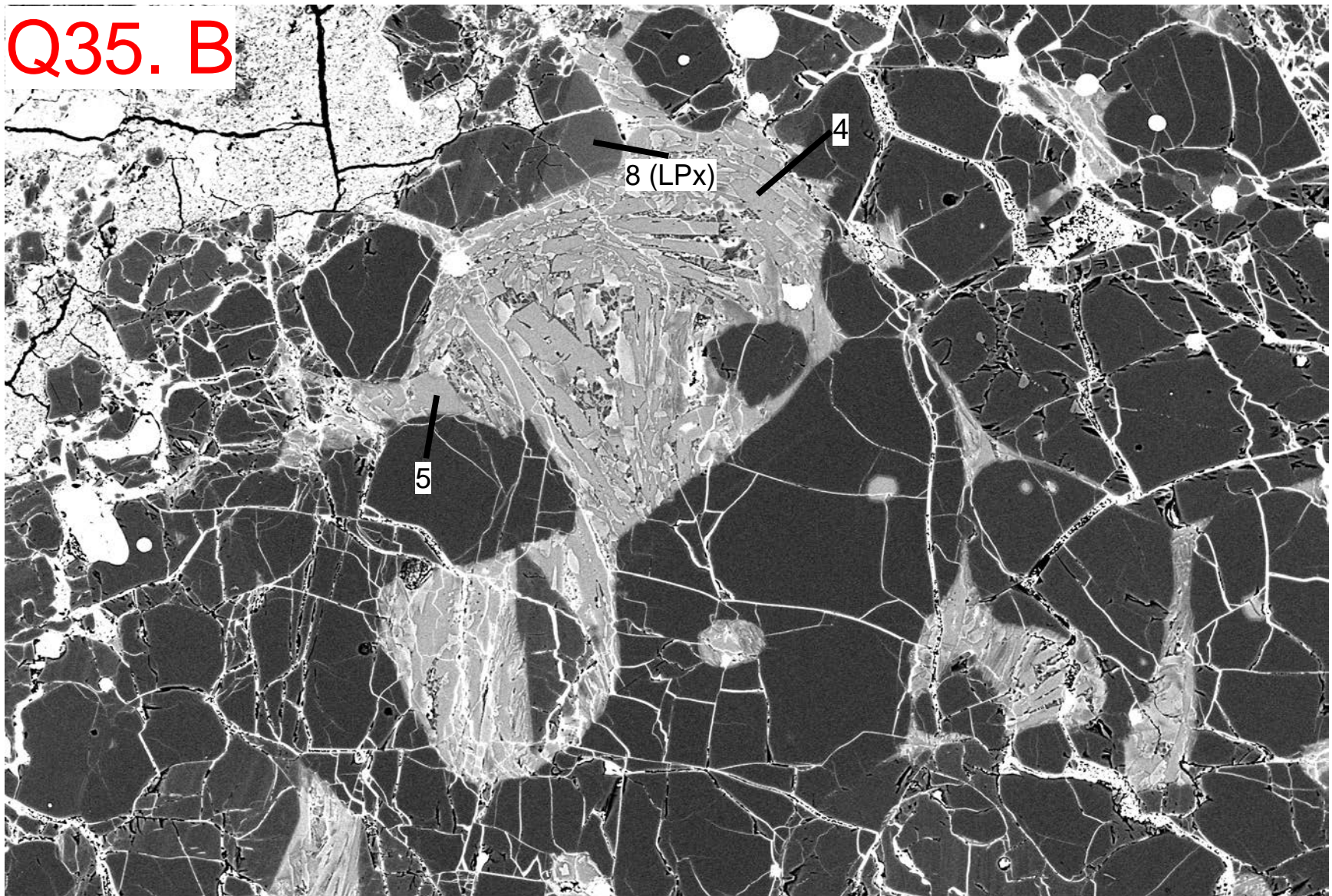


Q35 15.0kV x320 BSECOMP

100um

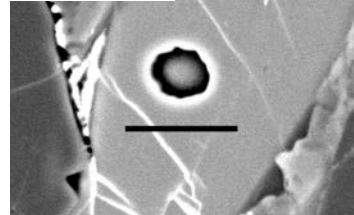


Q35. B

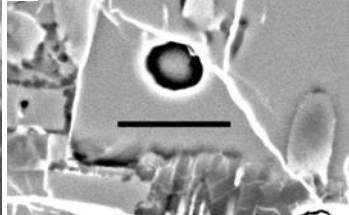




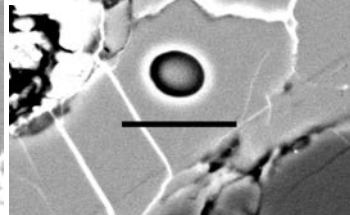
Q35. 1



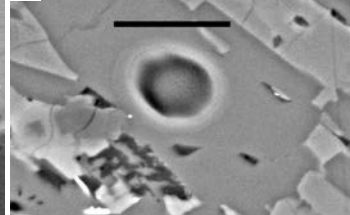
2



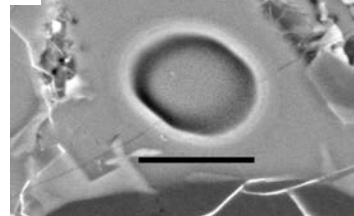
3



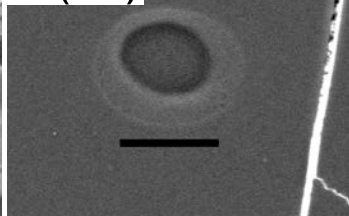
4



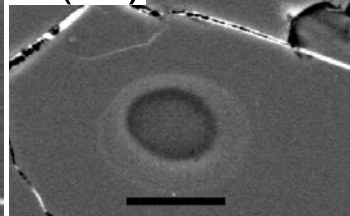
5



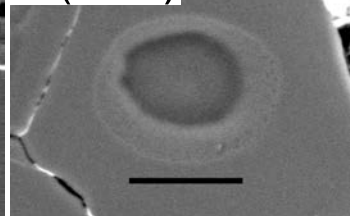
6 (OI)



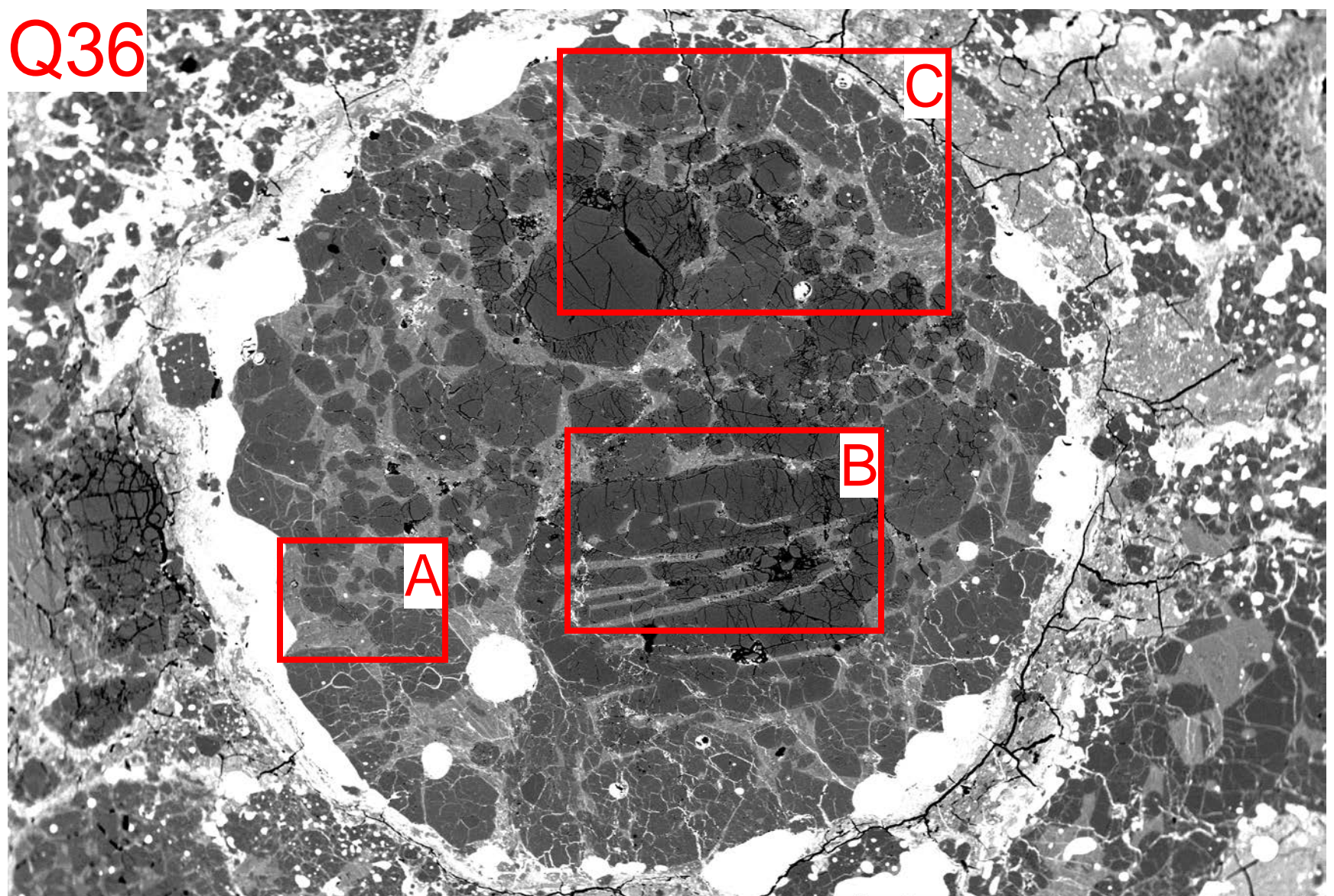
7 (OI)



8 (LPx)



Q36



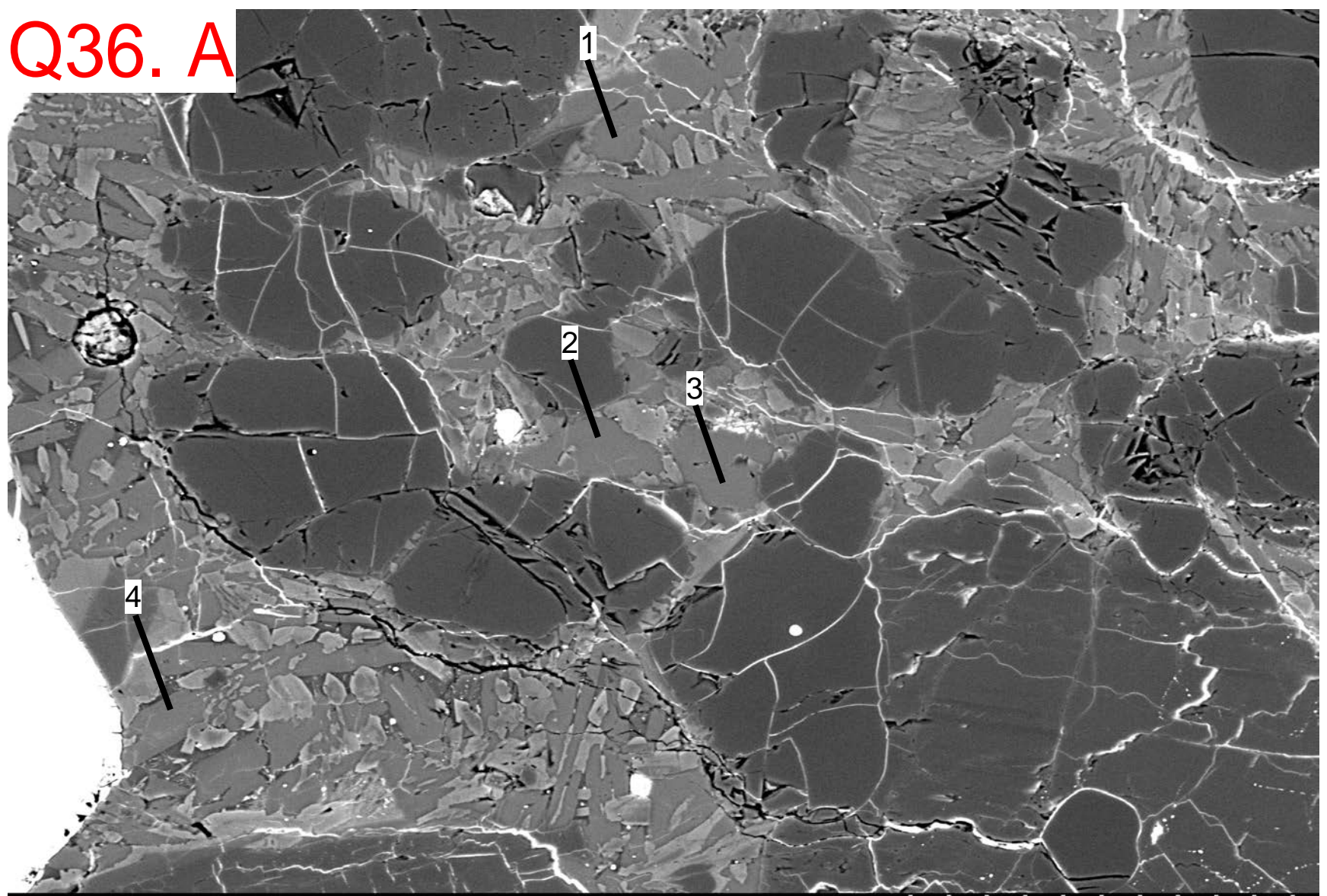
A

B

C

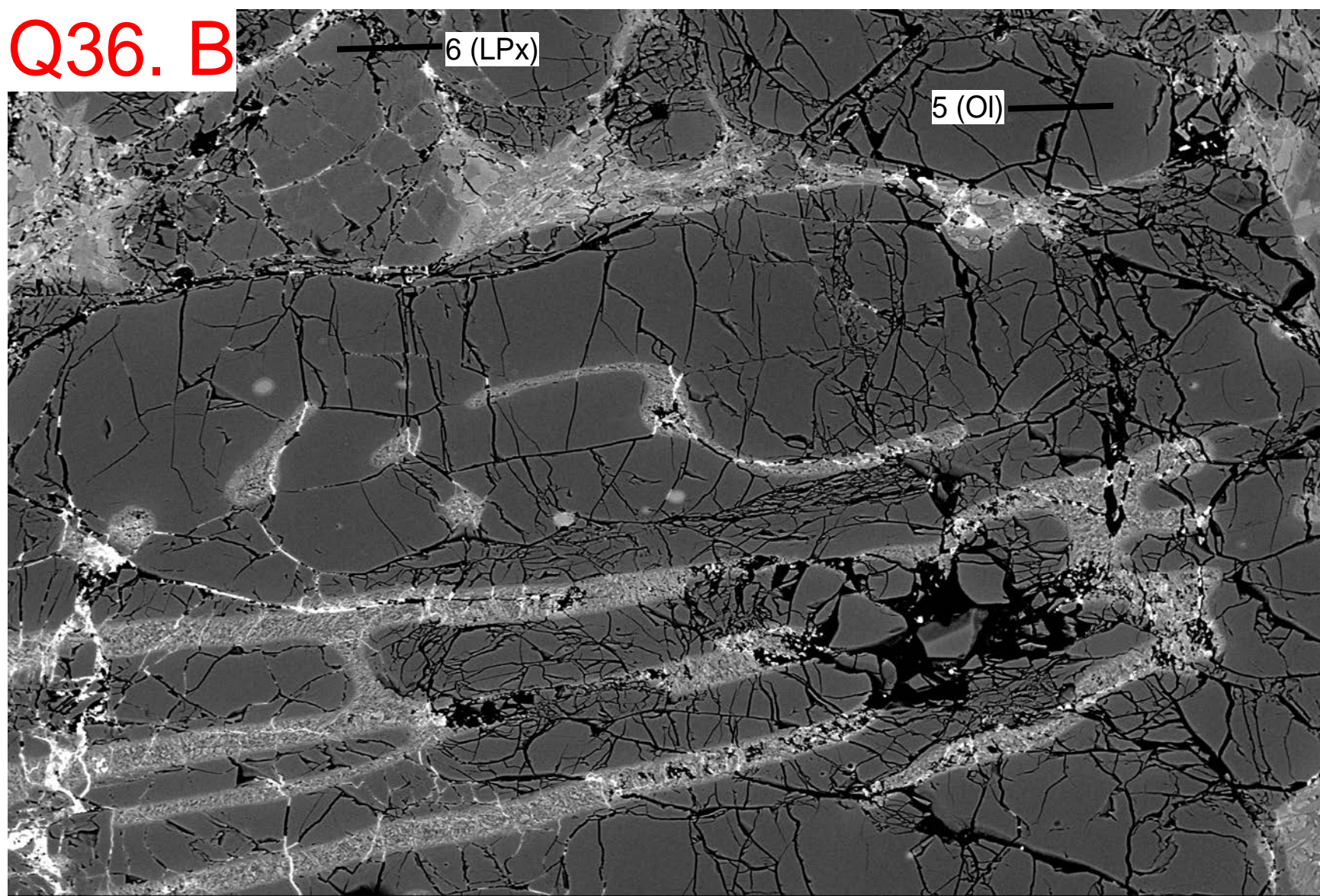


Q36. A





Q36. B

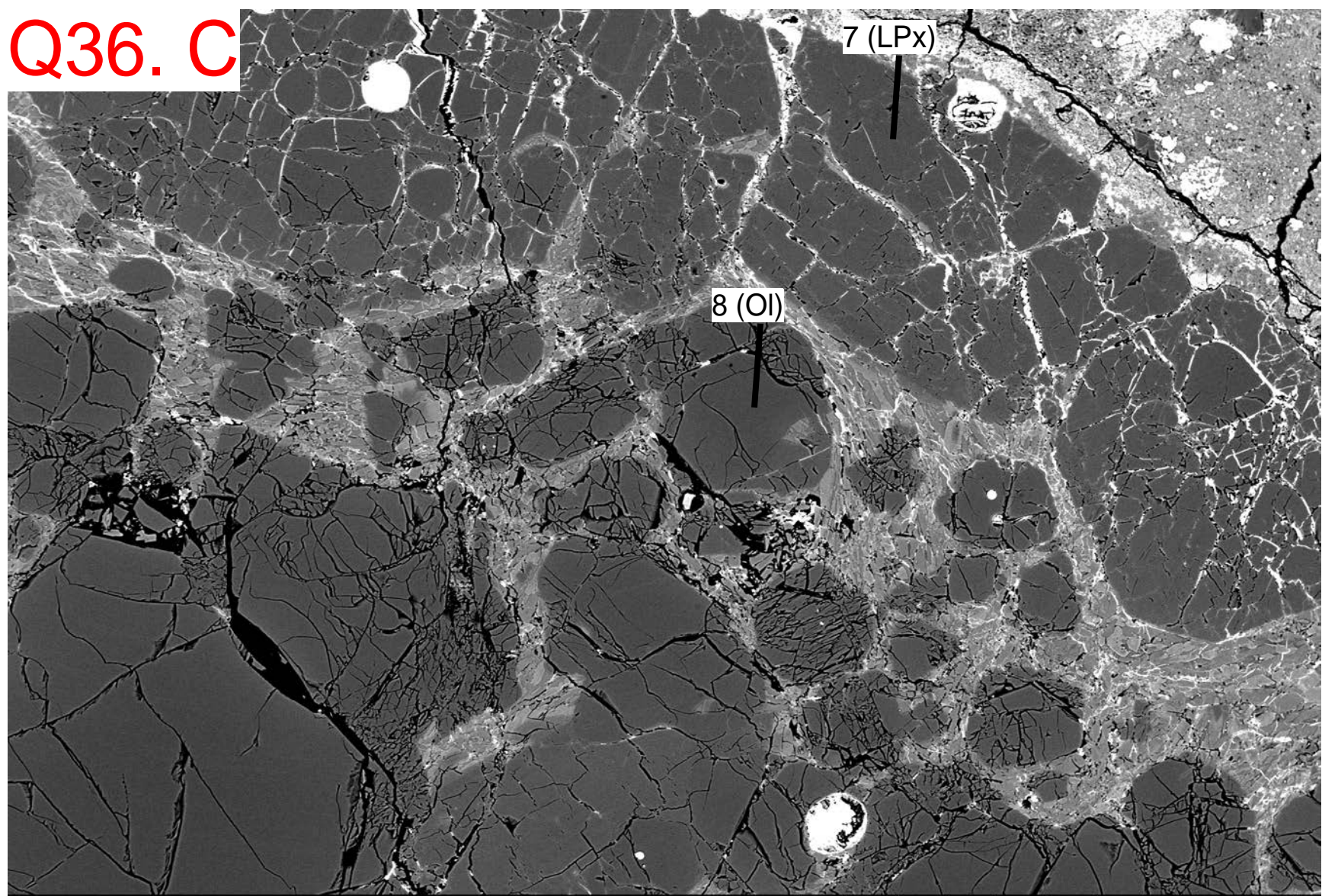


Q36 15.0kV x200 BSECOMP

200um

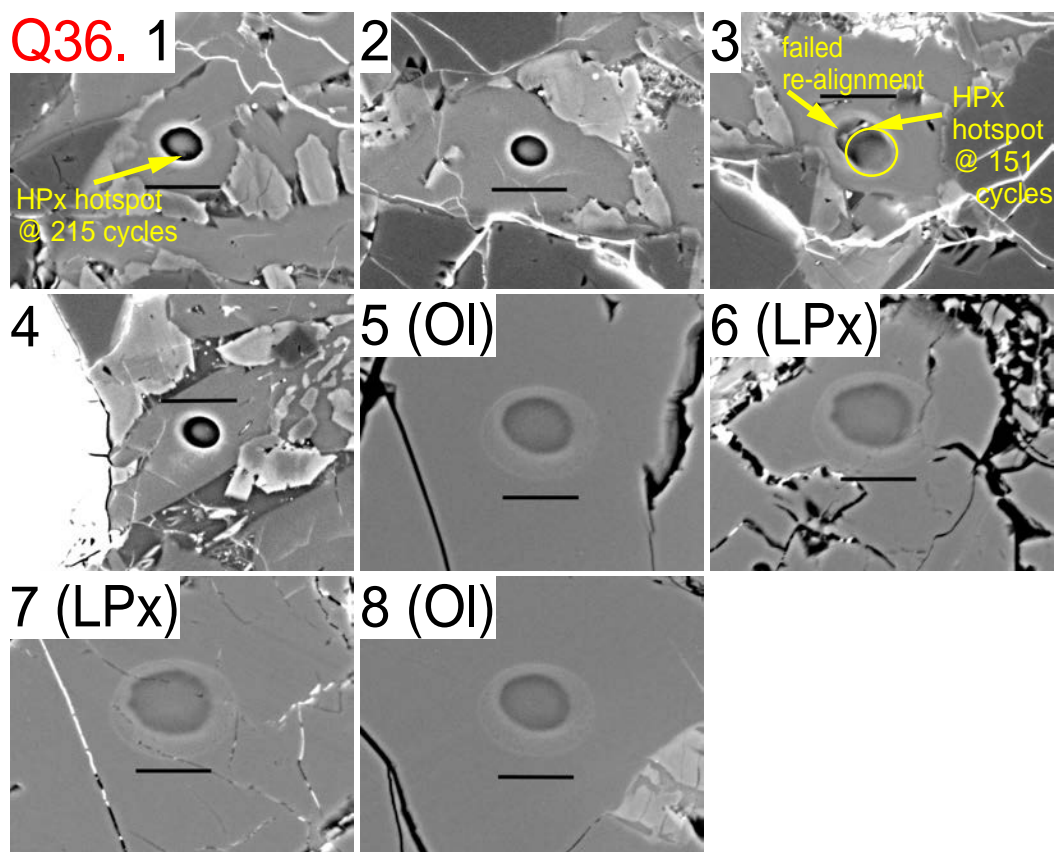


Q36. C



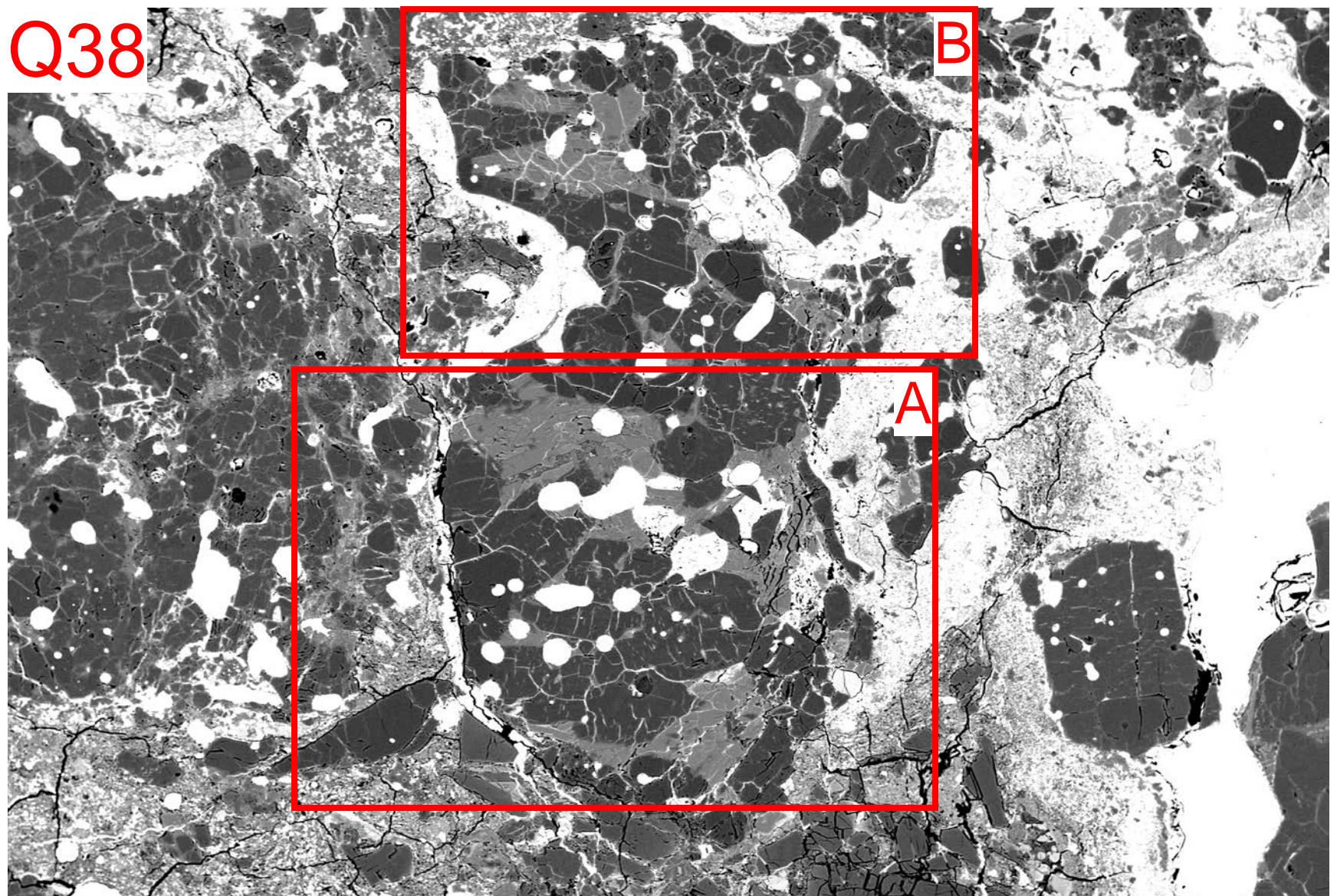
7 (LPx)

8 (OI)





Q38



B

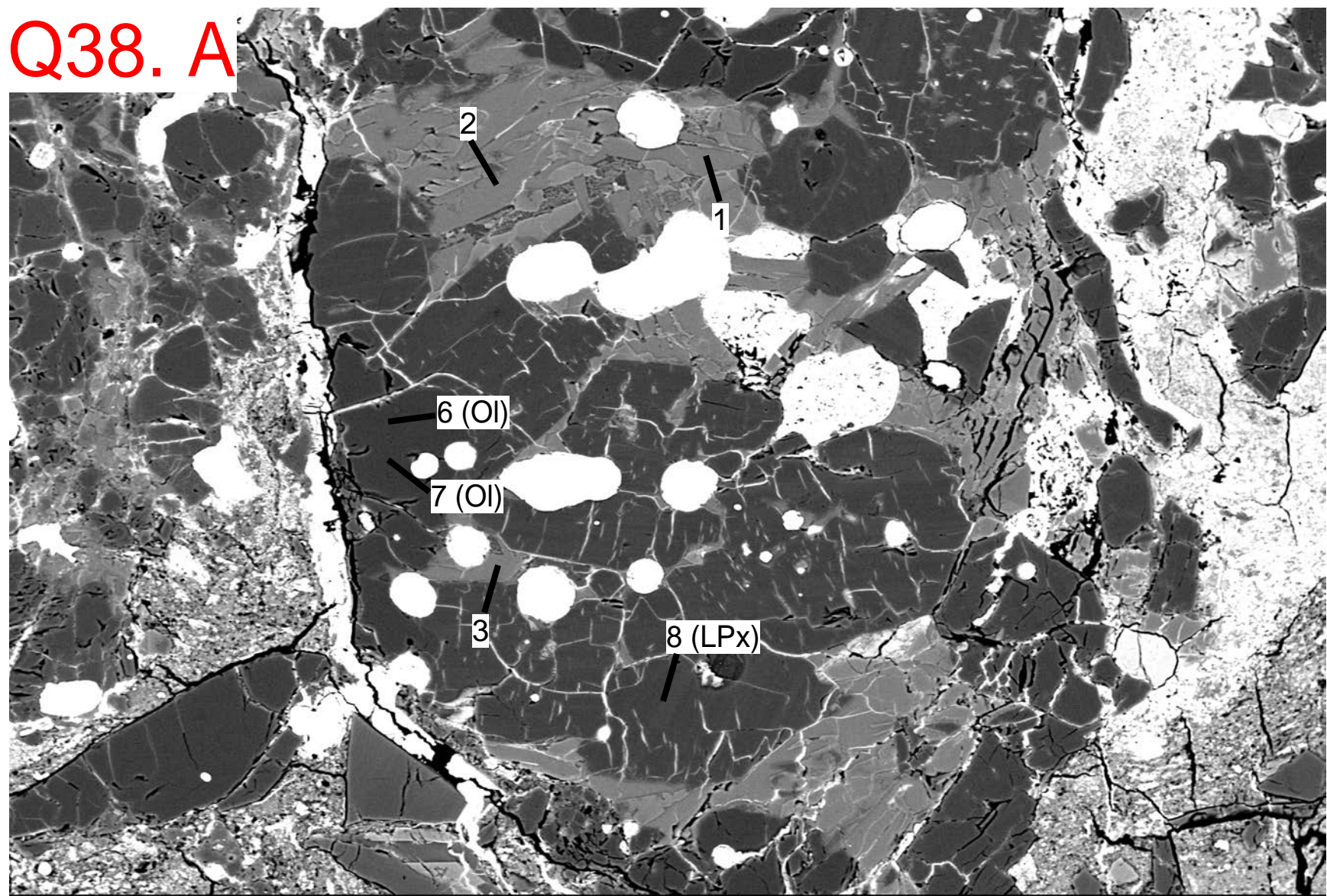
A

Q38 15.0kV x130 BSECOMP

400um



Q38. A

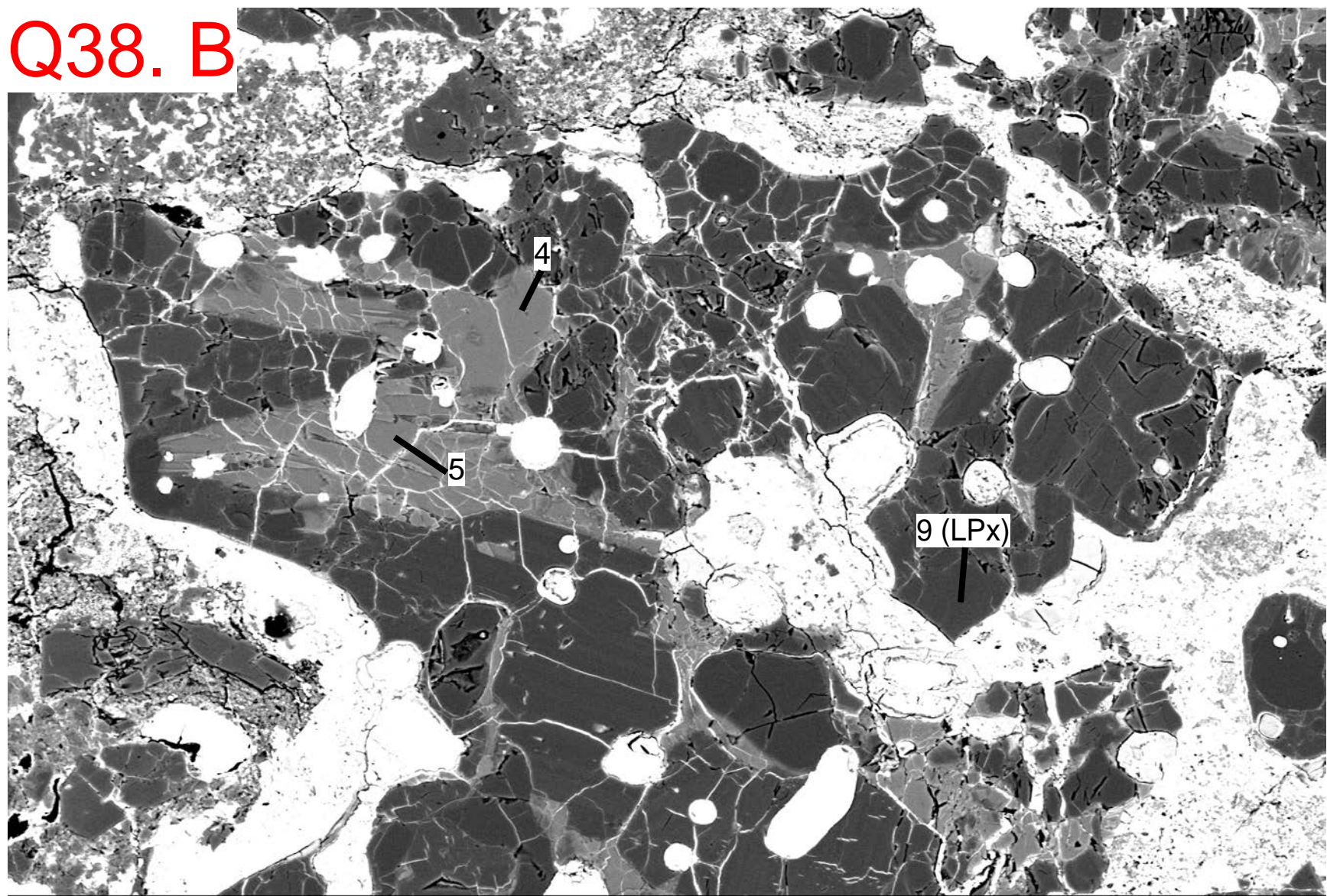


Q38 15.0kV x270 BSECOMP

200um

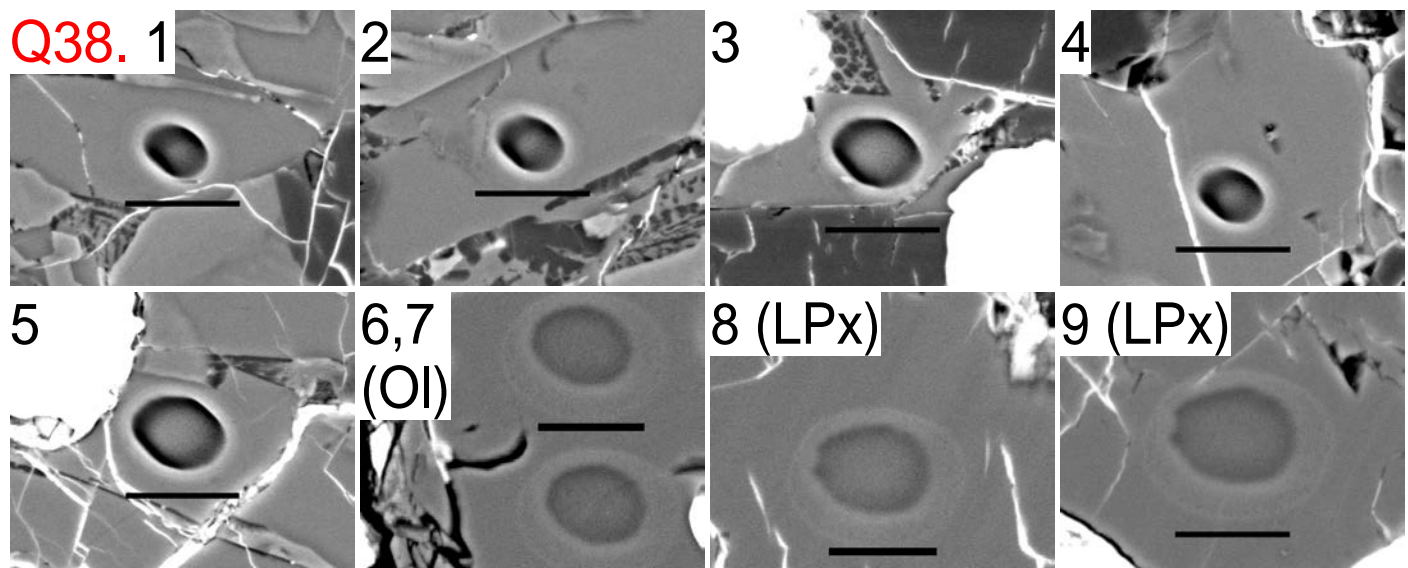


Q38. B



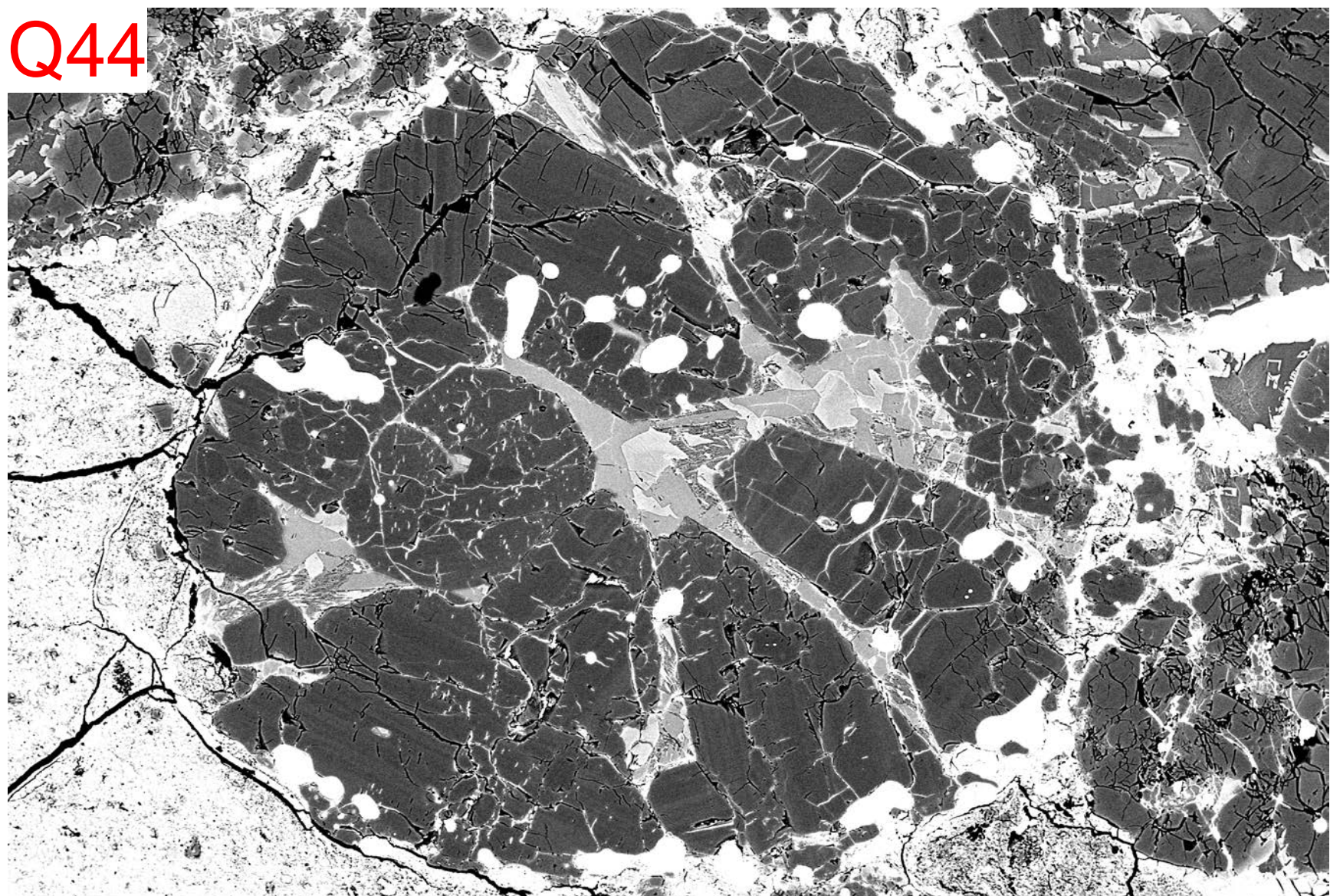
Q38 15.0kV x300 BSECOMP

100um





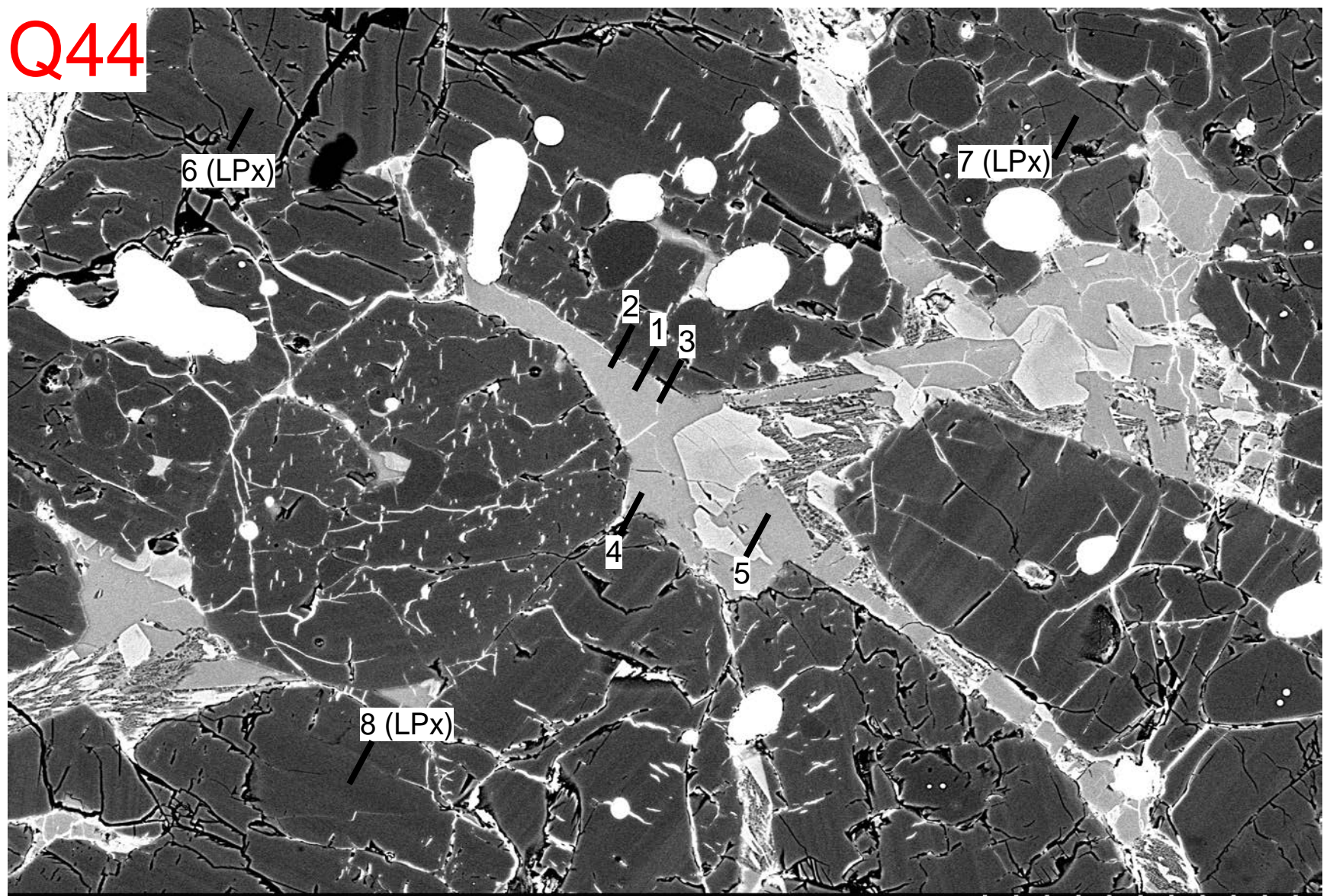
Q44



Q44 15.0kV x170 BSECOMP 300um



Q44



6 (LPx)

7 (LPx)

2

1

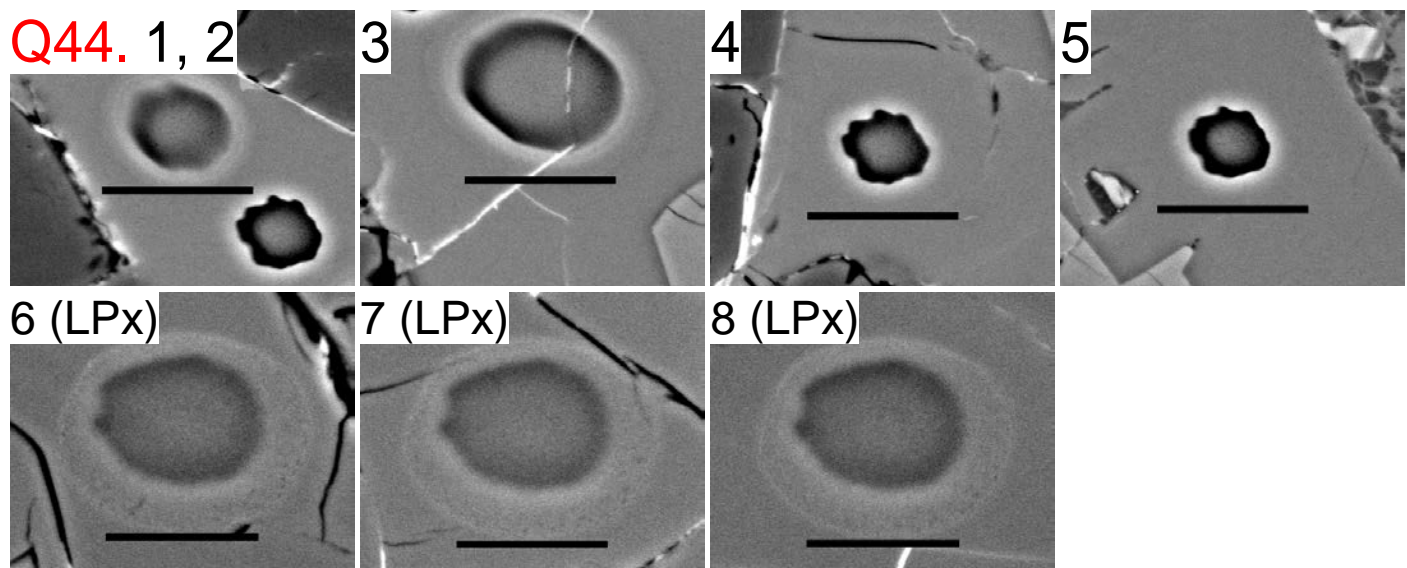
3

4

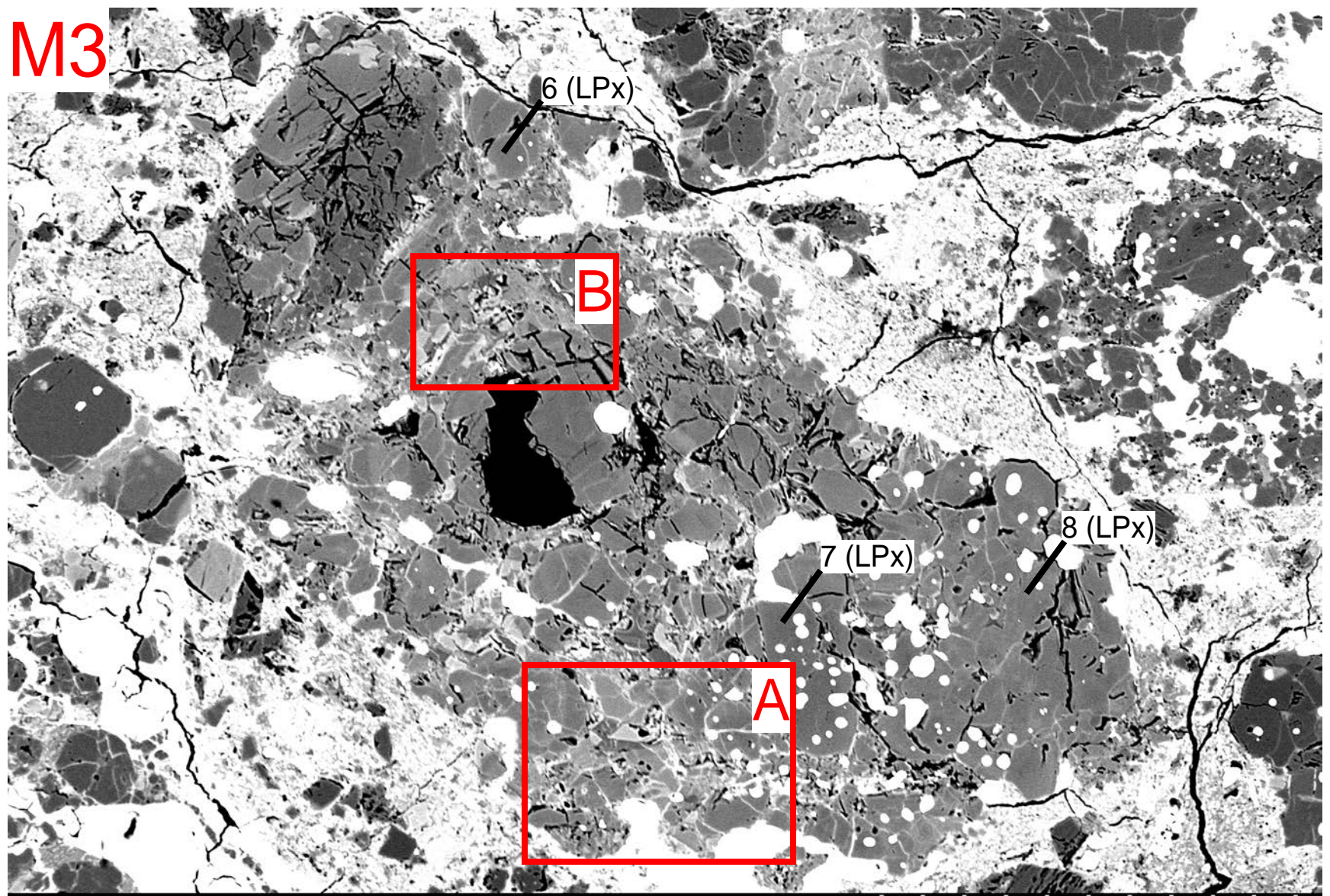
5

8 (LPx)





M3



B

A

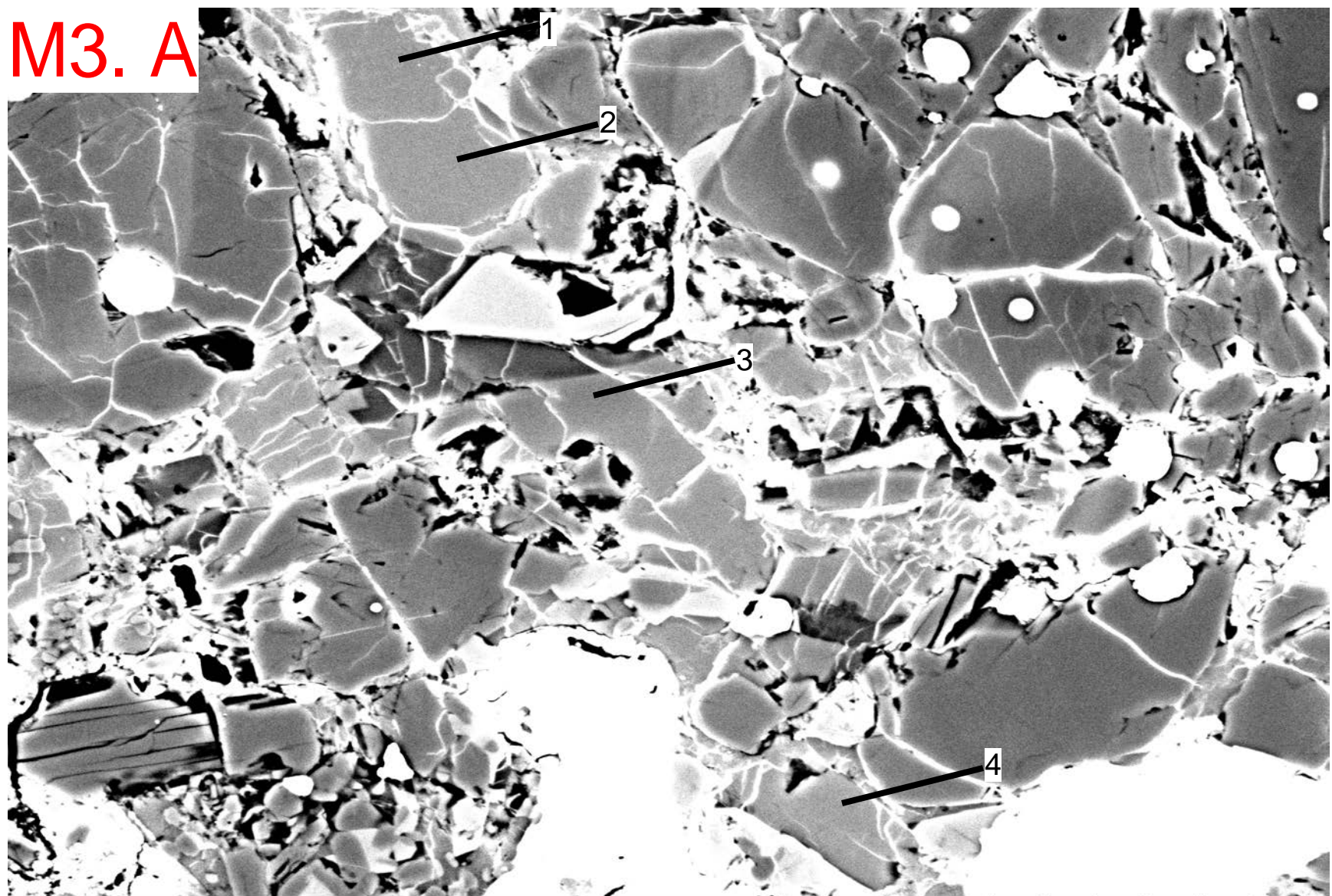
6 (LPx)

7 (LPx)

8 (LPx)



M3. A

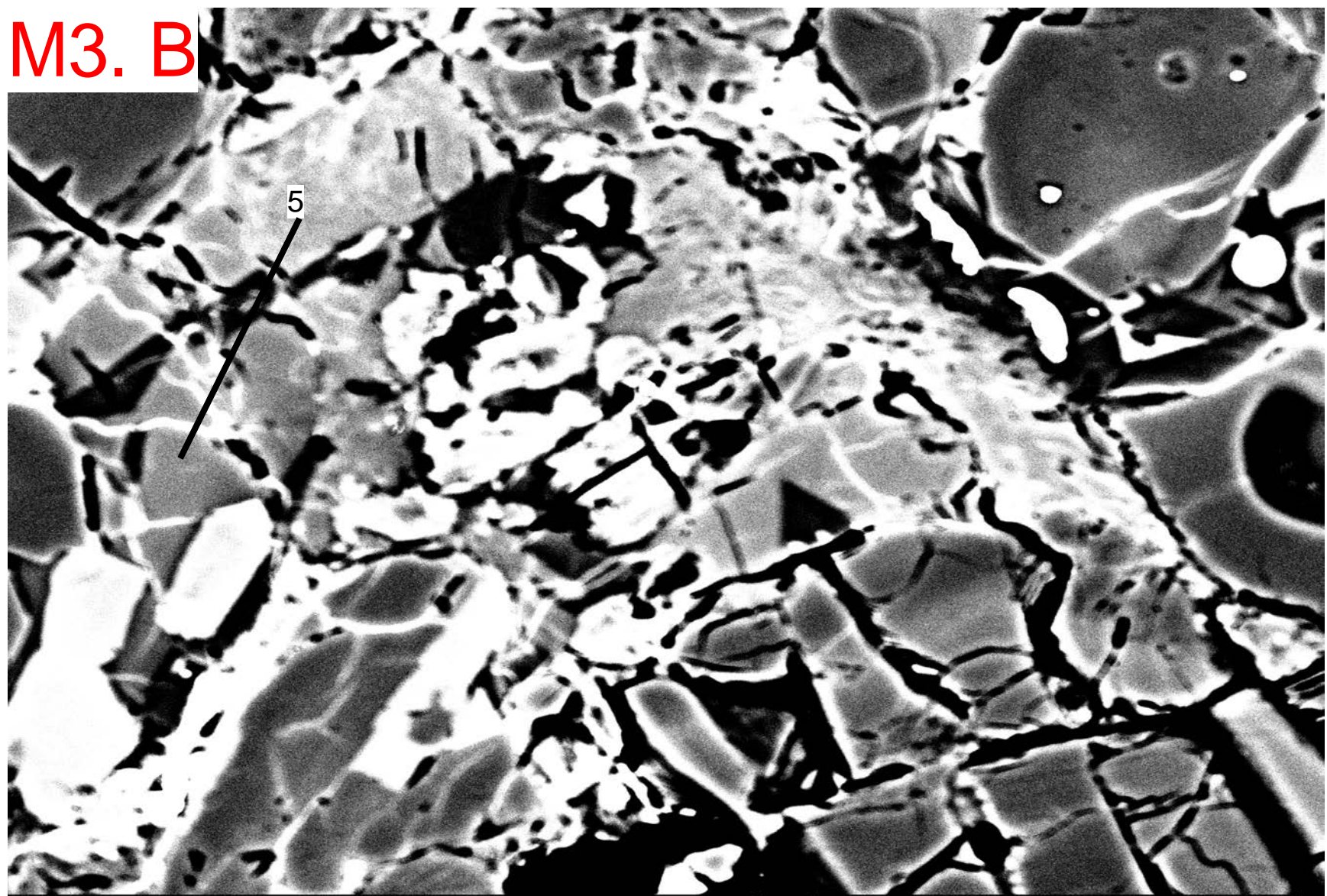


M3 15.0kV x1.00k BSECOMP

50.0um



M3. B



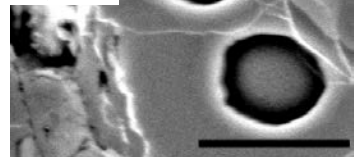
M3 15.0kV x1.30k BSECOMP

40.0um

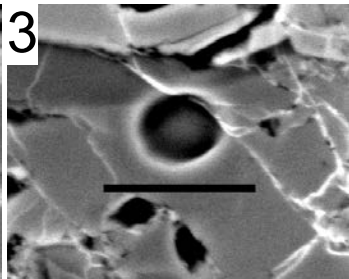


**M3.**

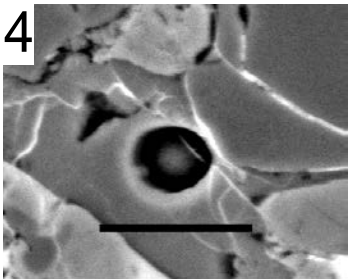
1,2



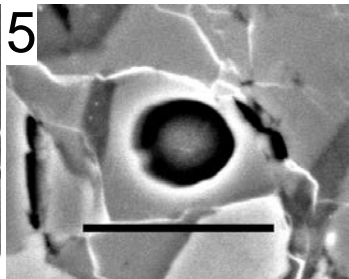
3



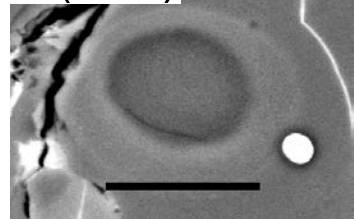
4



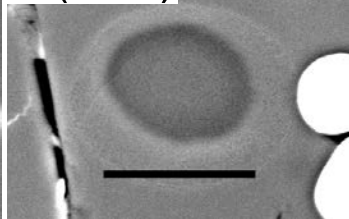
5



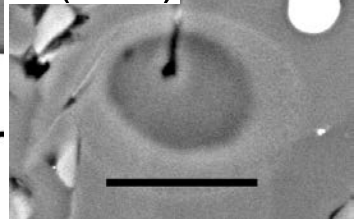
6 (LPx)



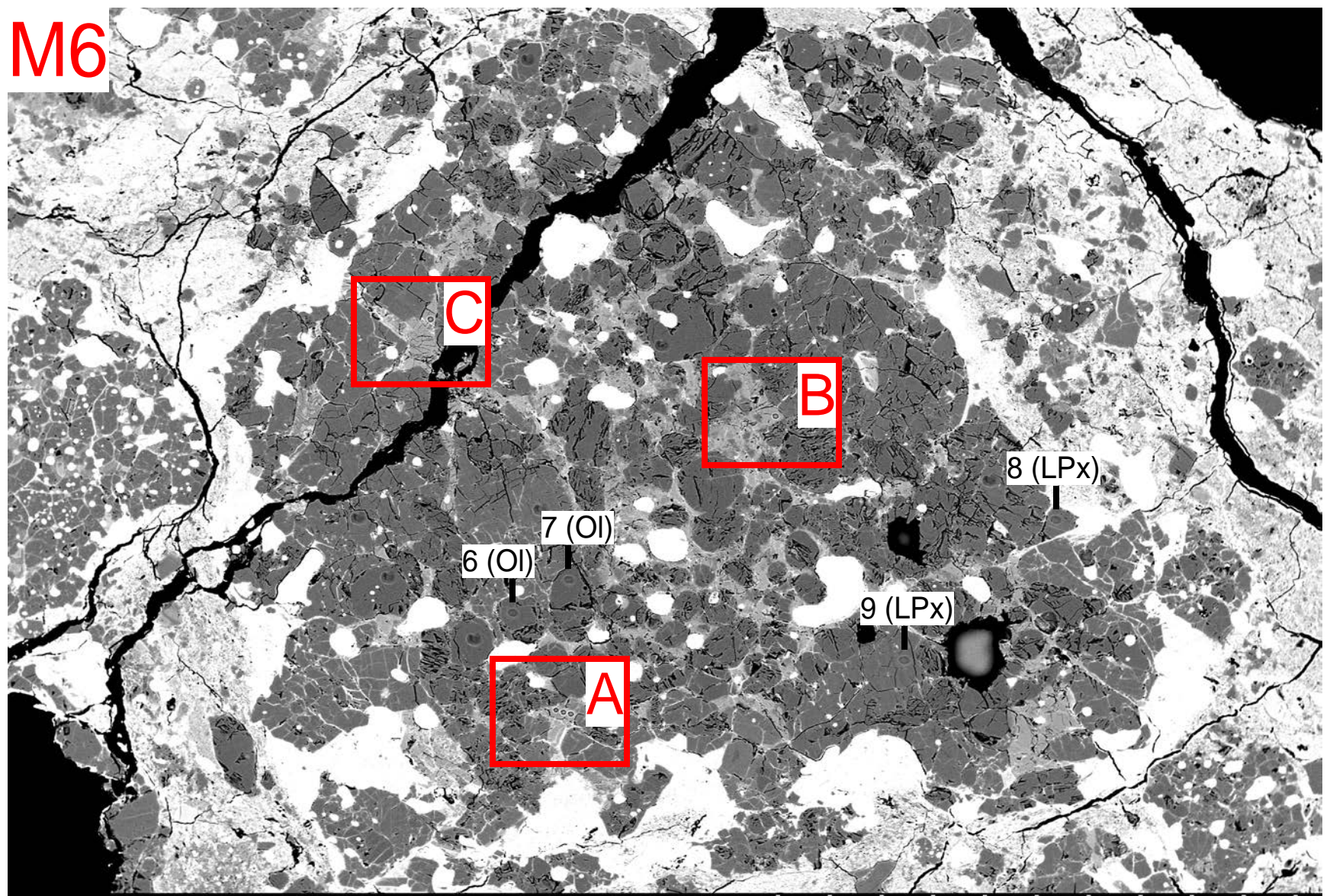
7 (LPx)



8 (LPx)



M6



C

B

A

6 (OI)

7 (OI)

8 (LPx)

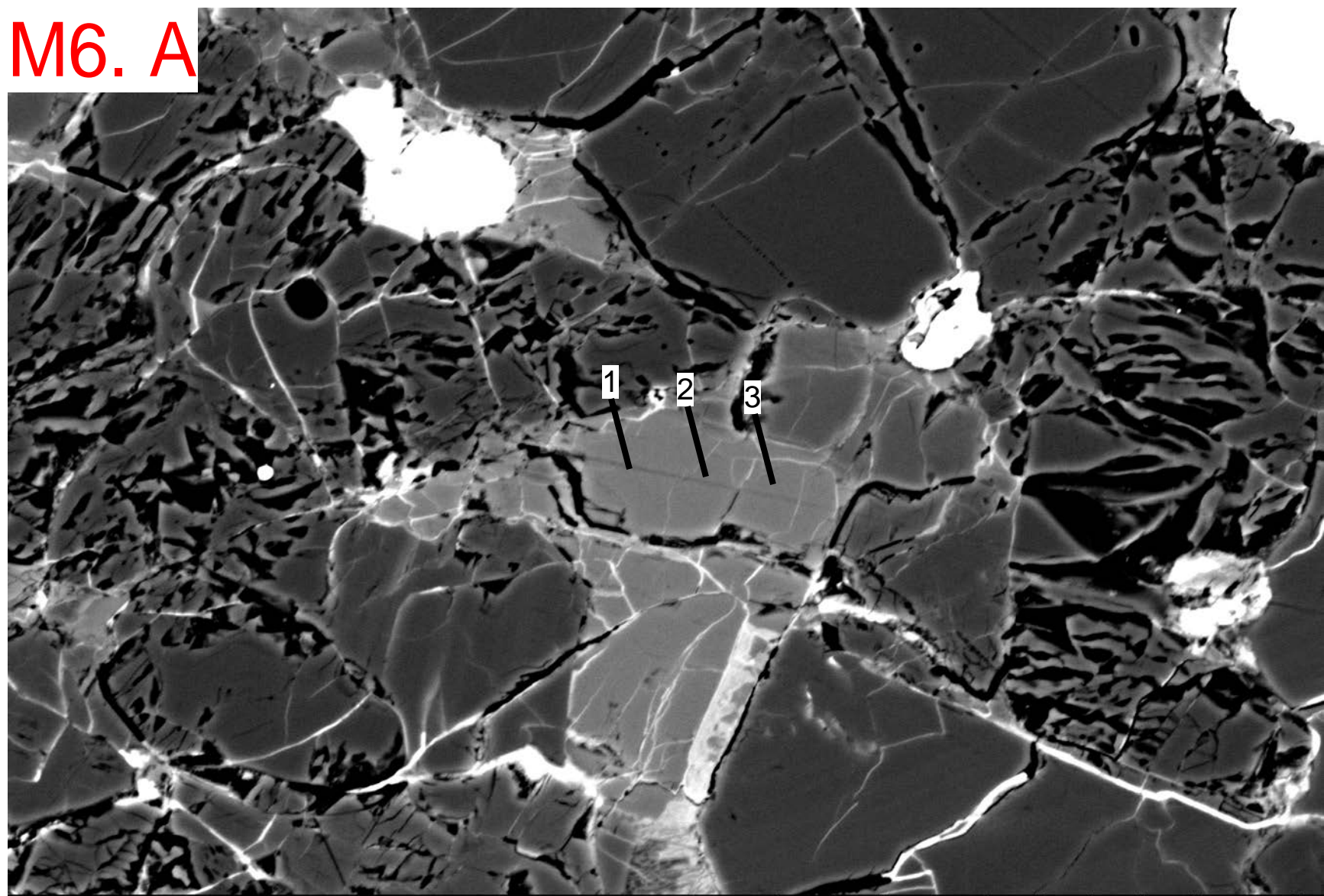
9 (LPx)

M6 15.0kV x100 BSECOMP

500um



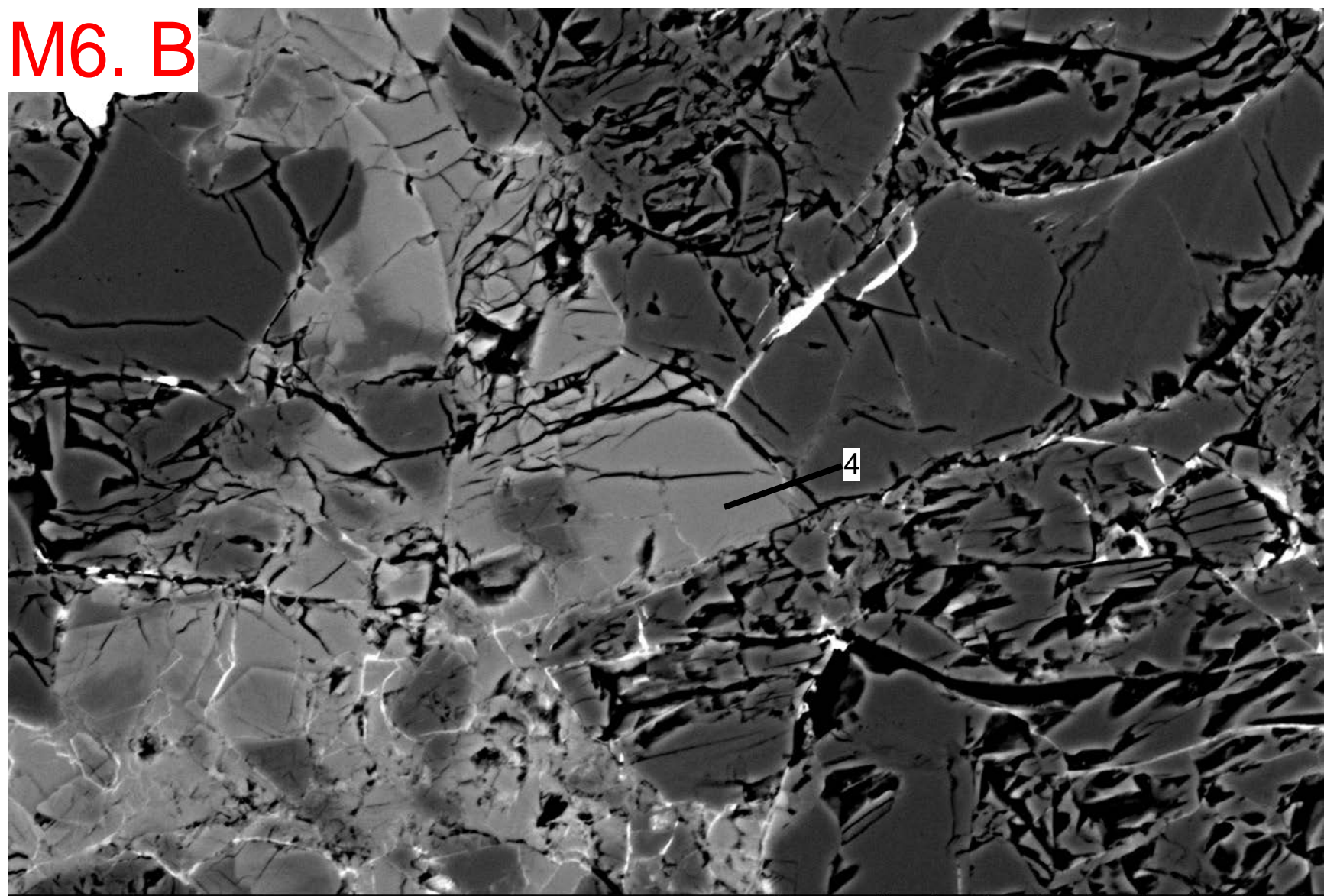
M6. A



M6 15.0kV x1.00k BSECOMP

50.0um

M6. B

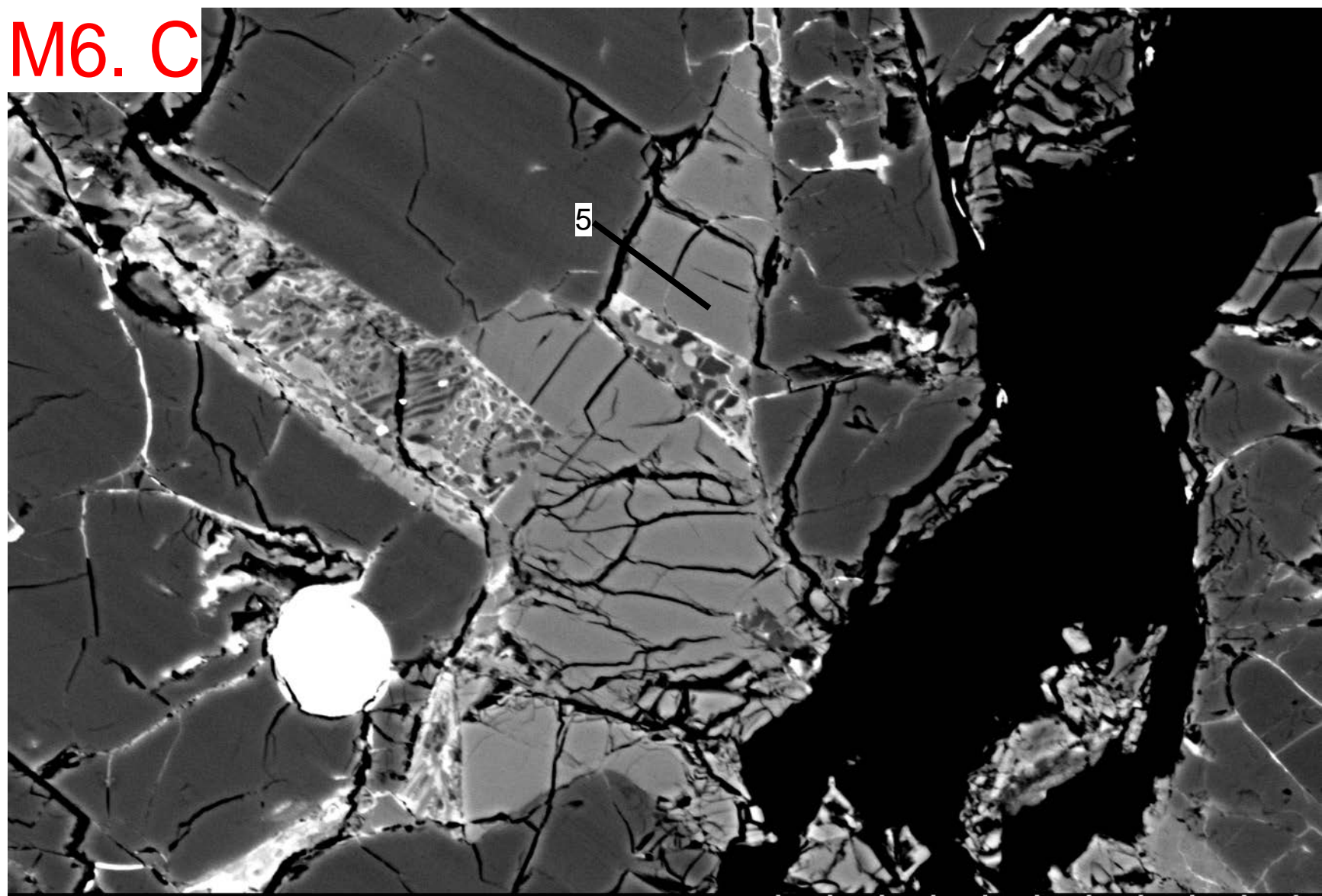


M6 15.0kV x1.00k BSECOMP

50.0um

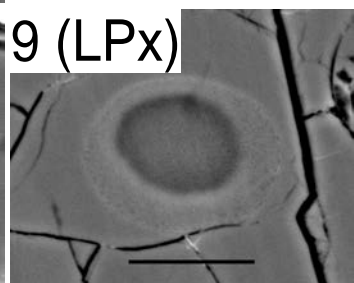
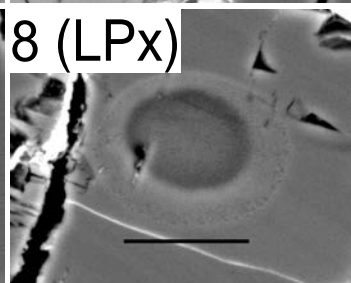
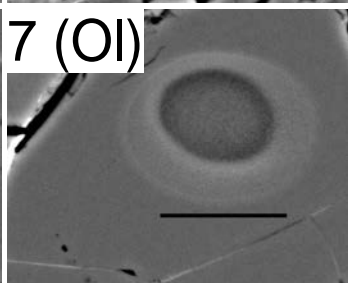
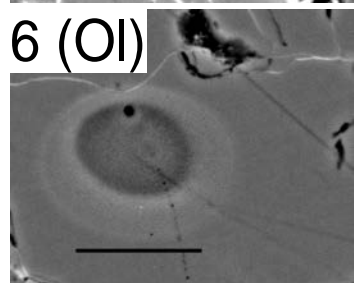
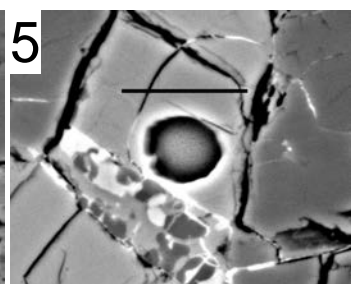
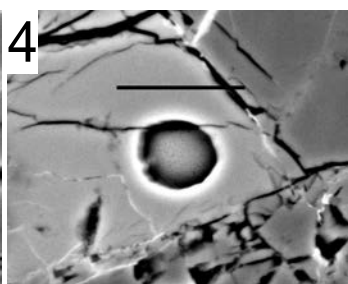
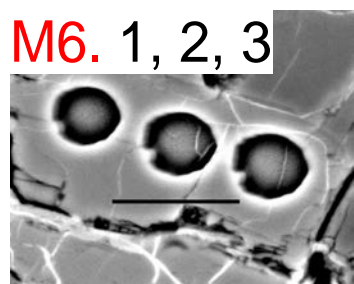


M6. C



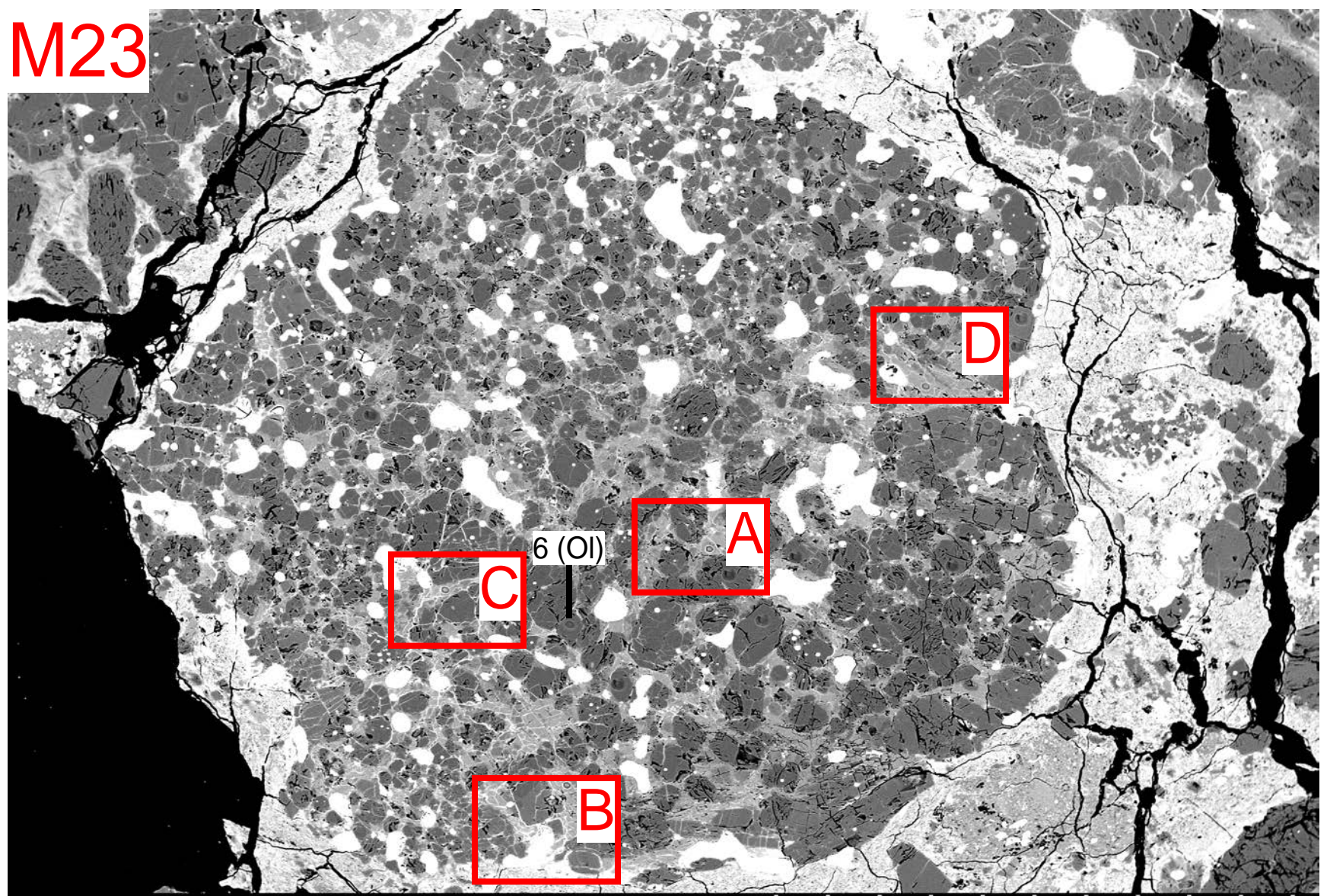
M6 15.0kV x1.00k BSECOMP

50.0um





M23



C

A

D

B

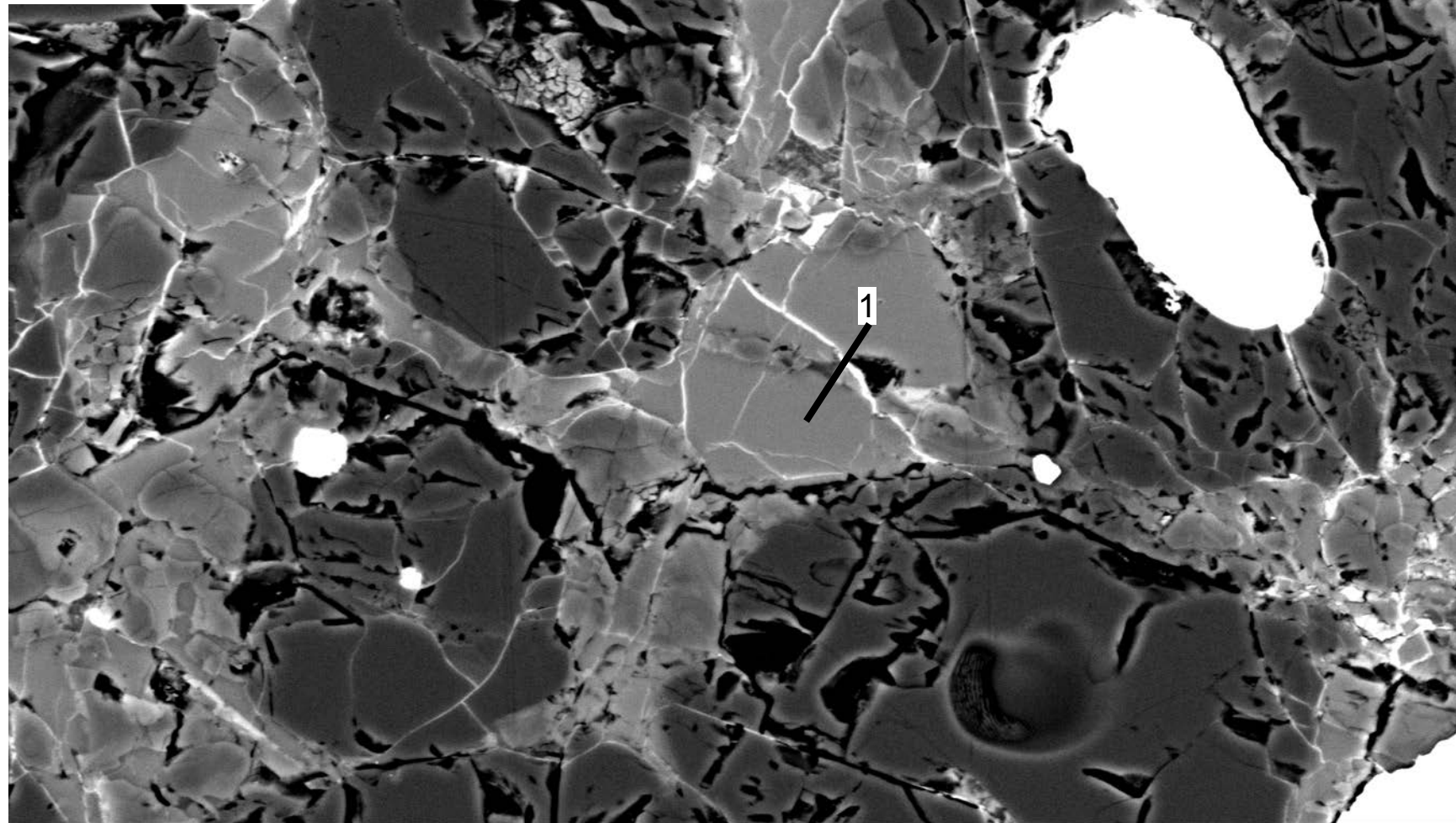
6 (O)

M23 15.0kV x100 BSECOMP

500um



M23. A

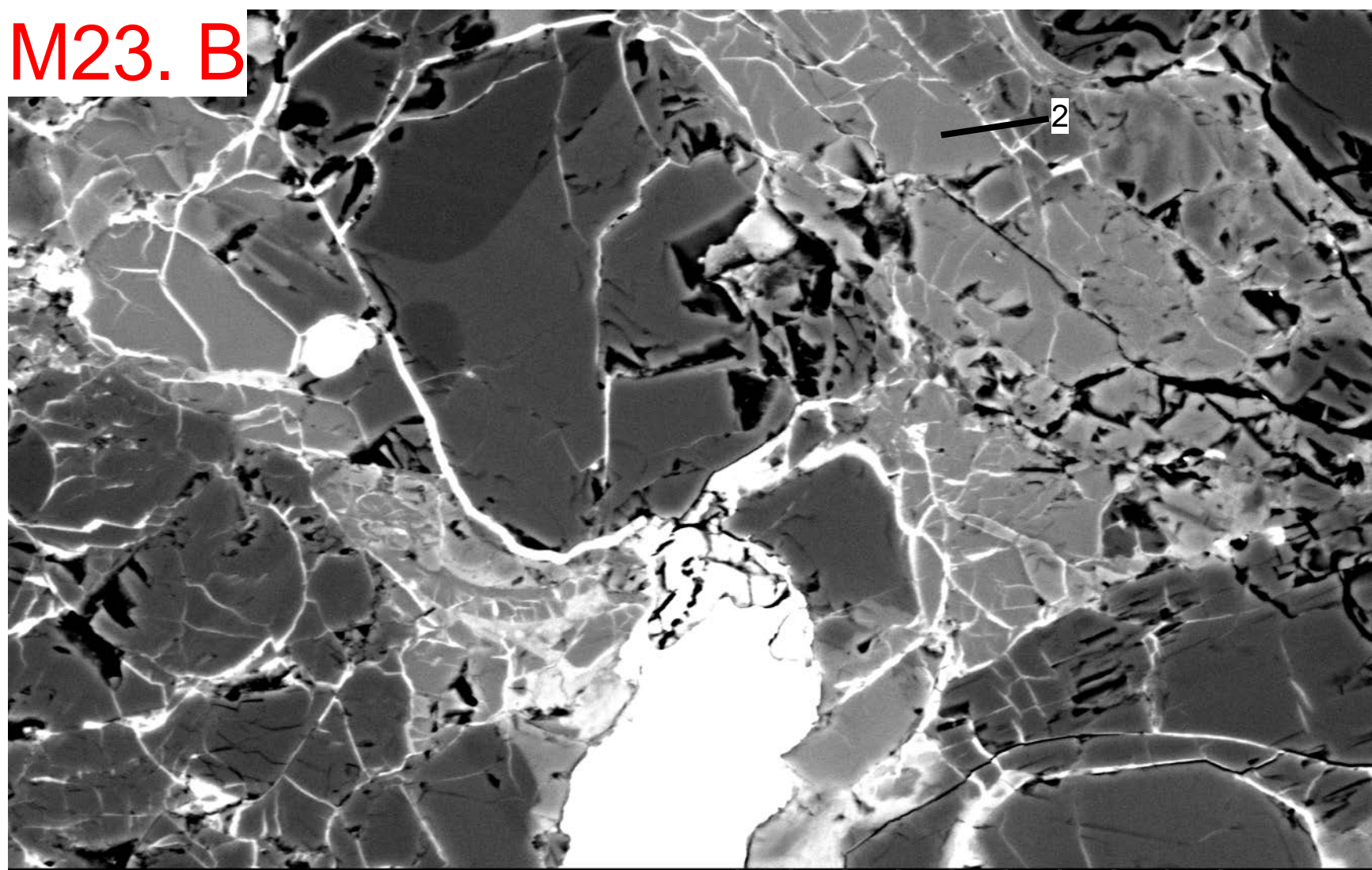


M23 15.0kV x1.00k BSECOMP

50.0um



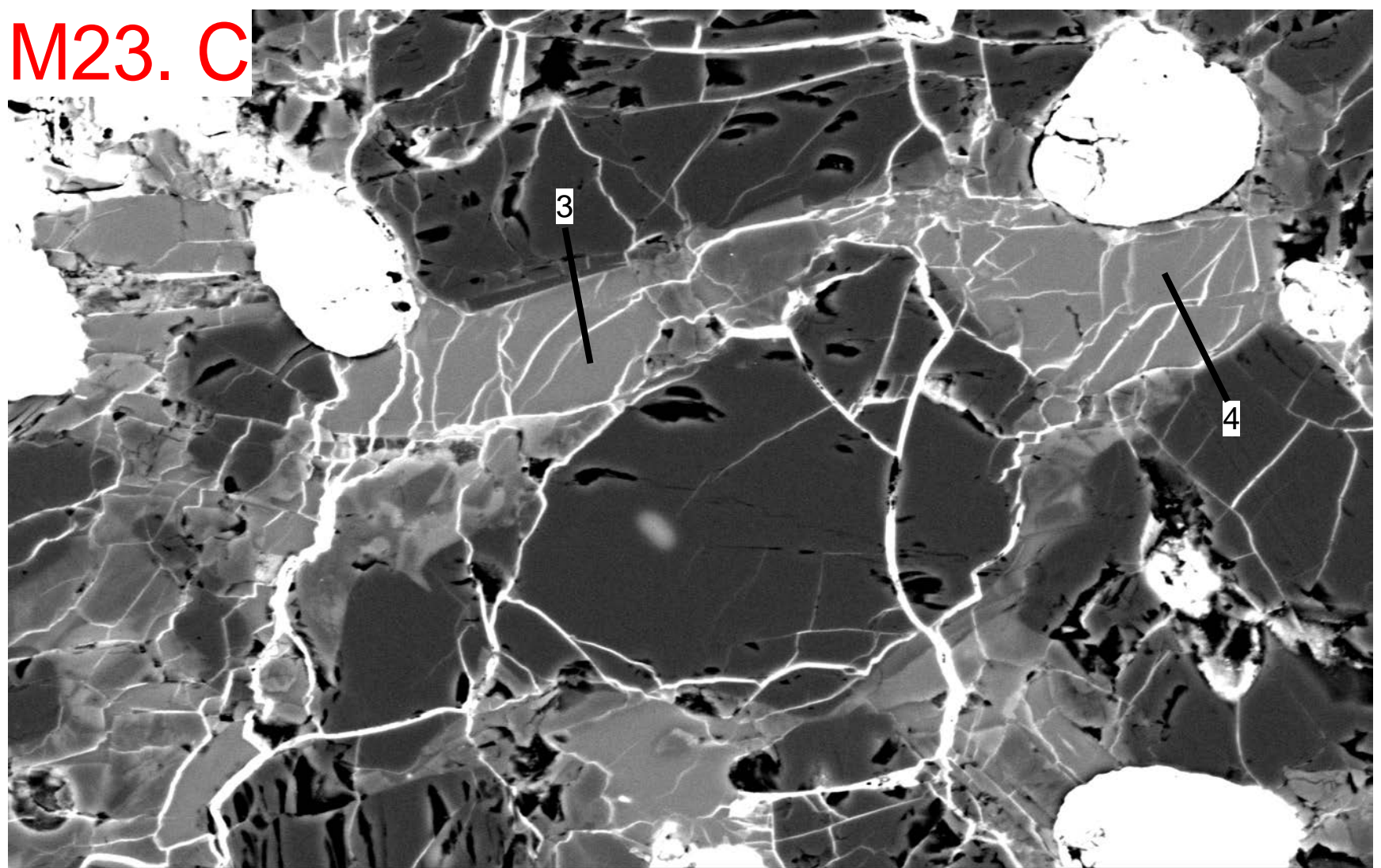
M23. B



M23 15.0kV x1.00k BSECOMP

50.0um

M23. C

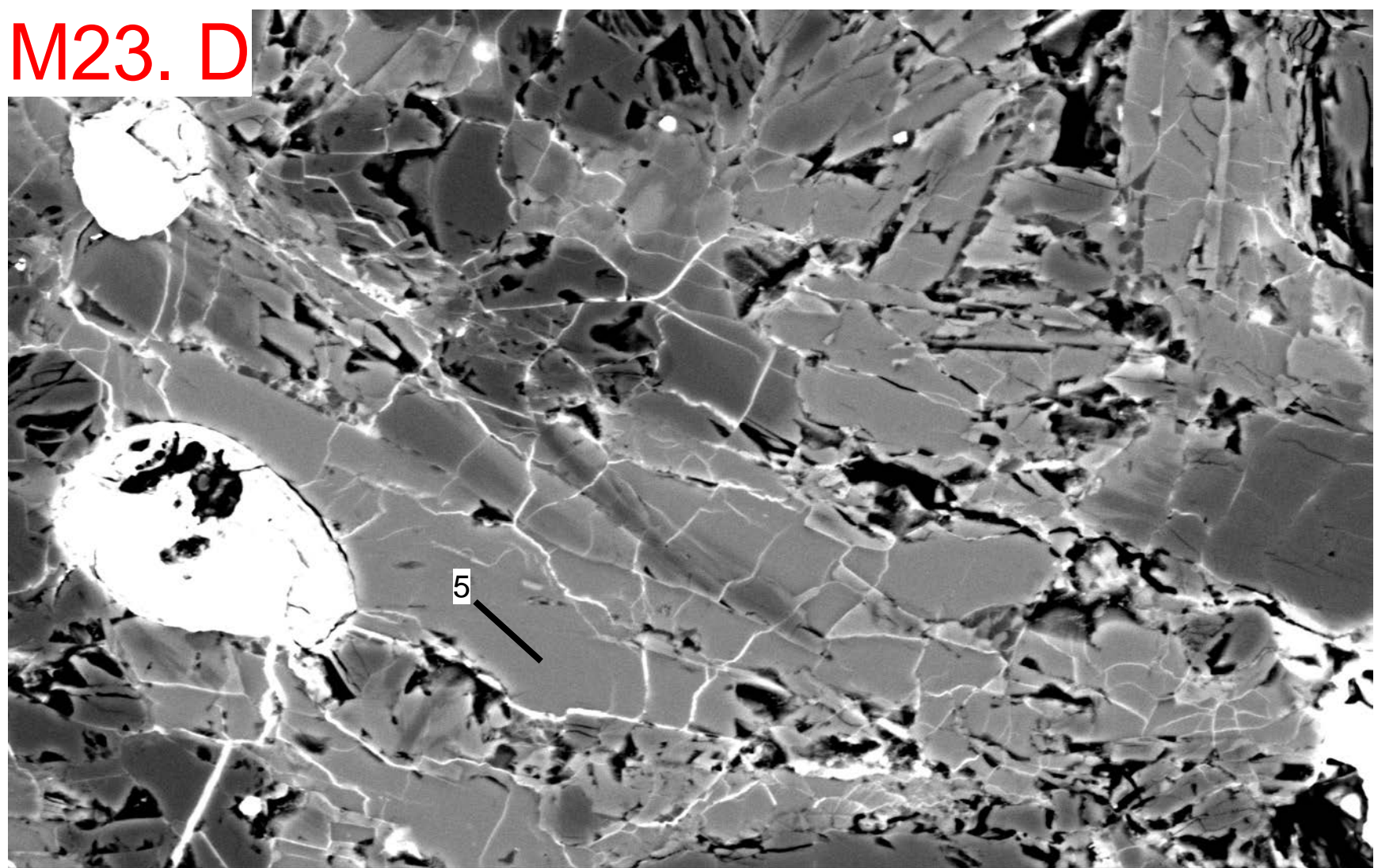


M23 15.0kV x1.00k BSECOMP

50.0um



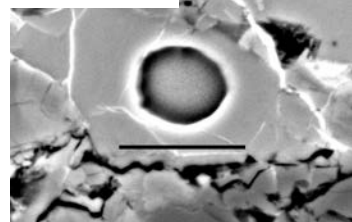
M23. D



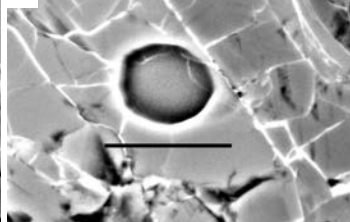
M23 15.0kV x1.00k BSECOMP

50.0um

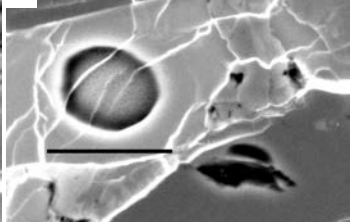
M23. 1



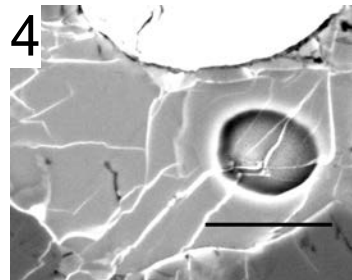
2



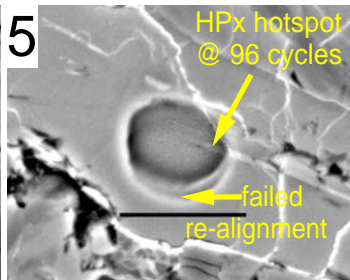
3



4



5



6 (OI)

