

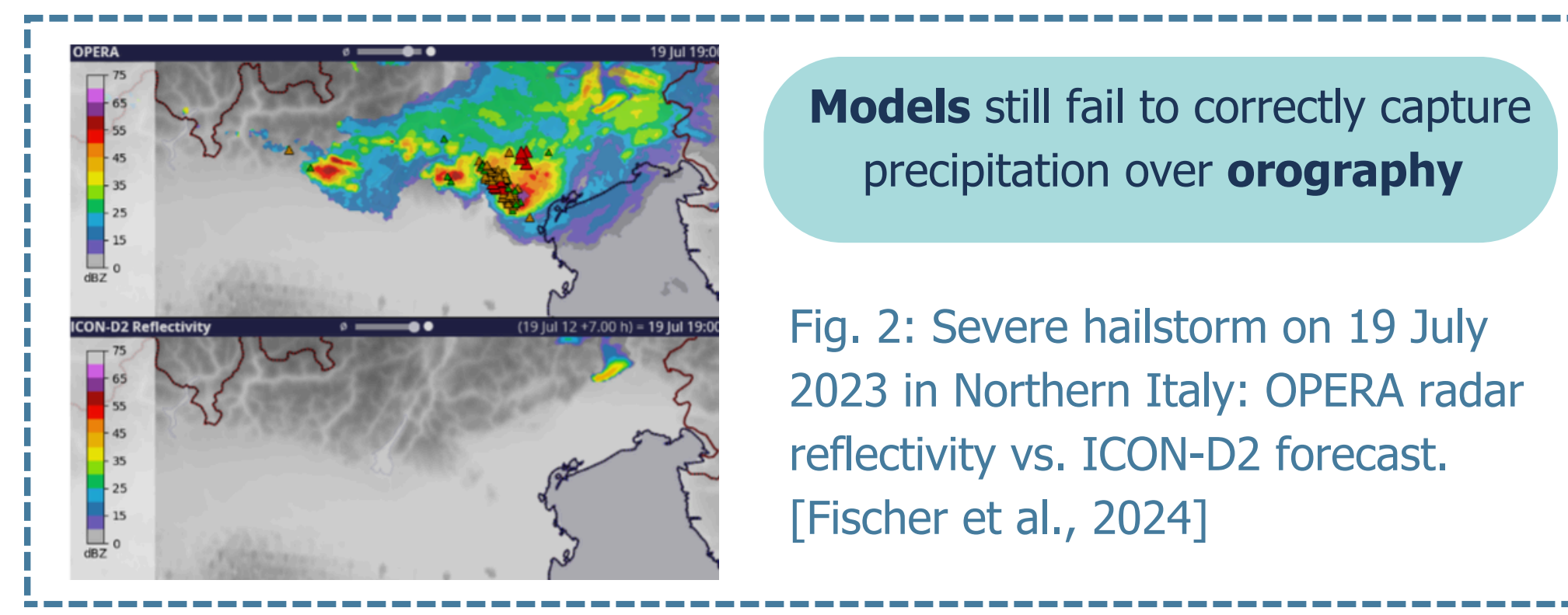
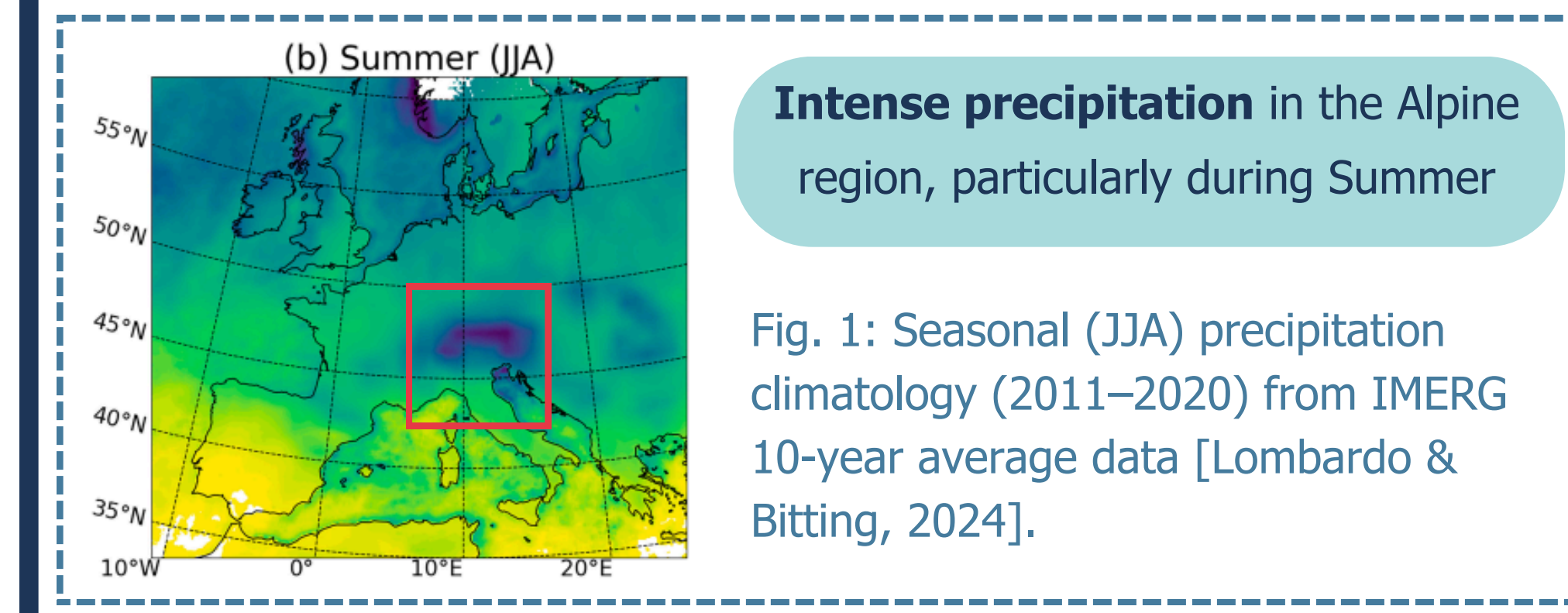
Characterizing cloud spatial structures and their transitions to extreme precipitation over the Alps through self-supervised learning



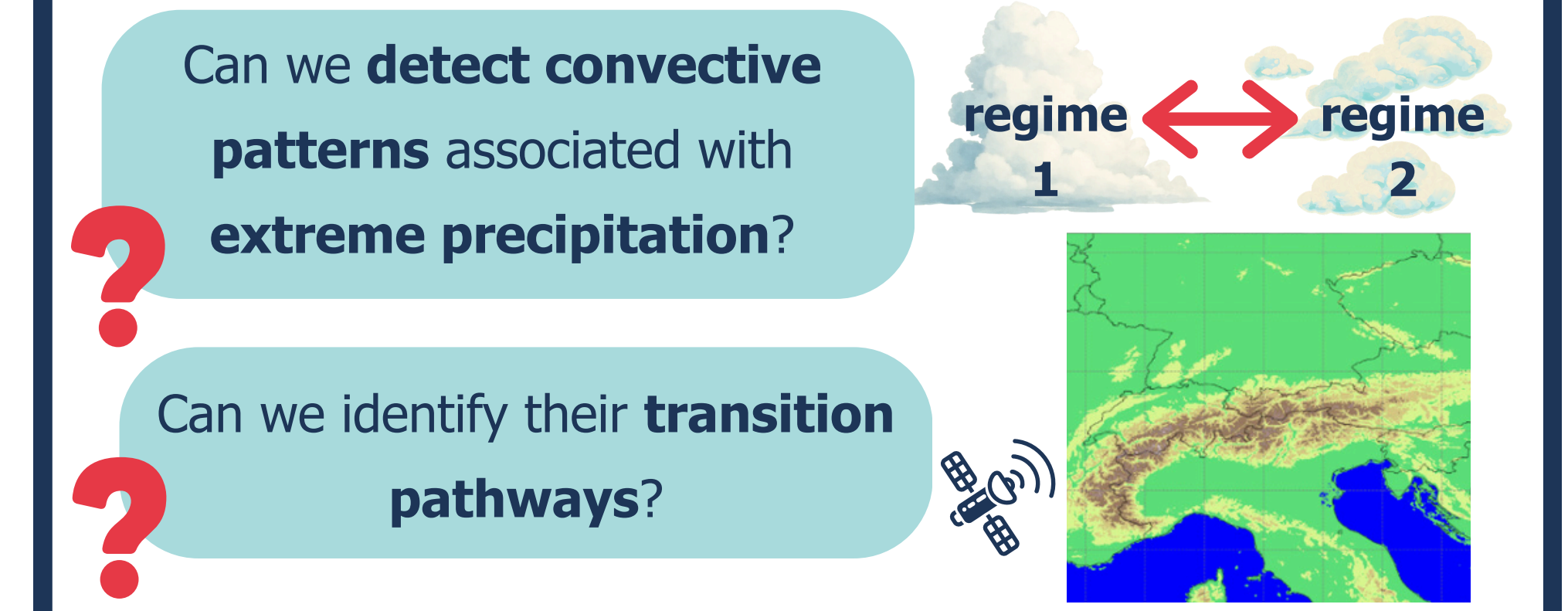
Daniele Corradini (1), Paula Bigalke (1), Elsa Cattani (2), Dwaipayan Chatterjee (3), Claudia Acquistapace (4)

1. University of Cologne, Germany; 2. CNR-ISAC, Bologna, Italy; 3. IMKTRO, Karlsruhe Institute of Technology, Germany; 4. Department of Geoscience, University of Padua, Italy.

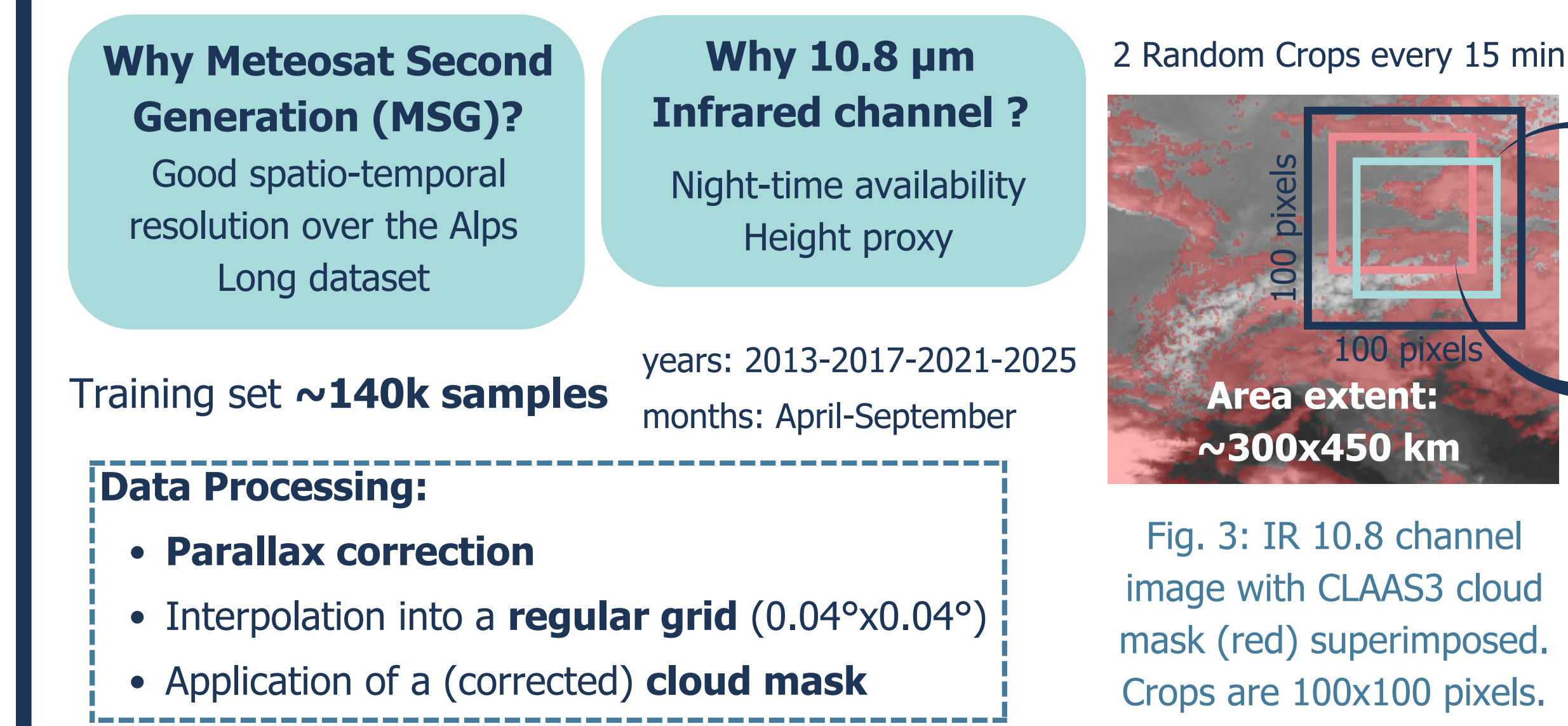
1. MOTIVATION



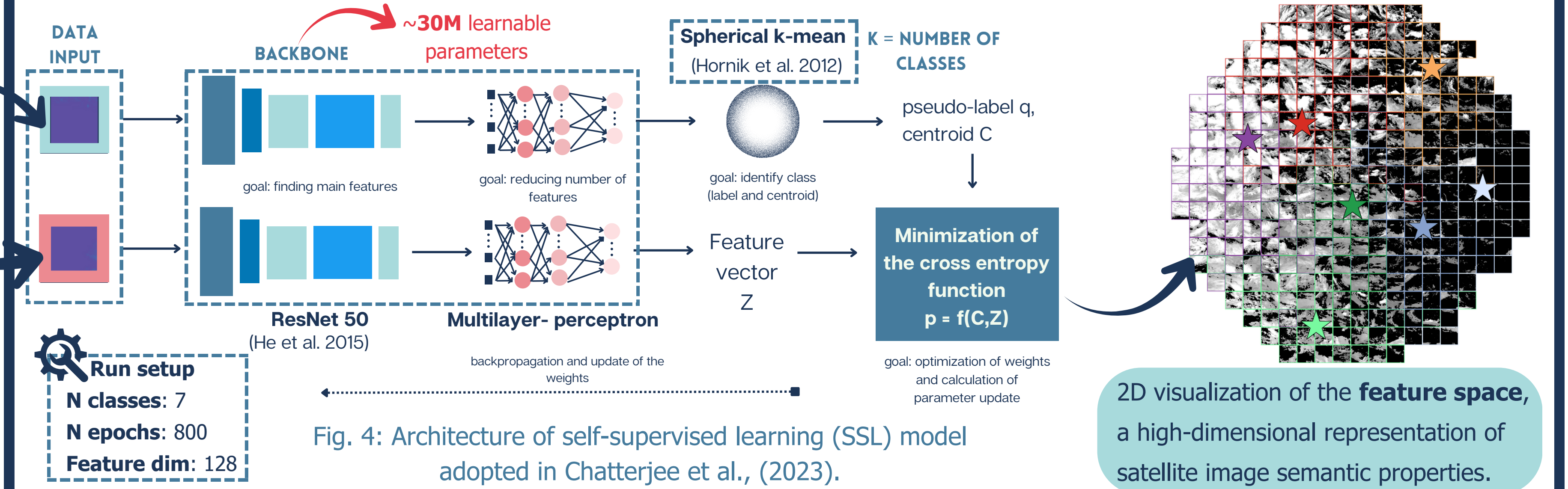
2. RESEARCH QUESTIONS



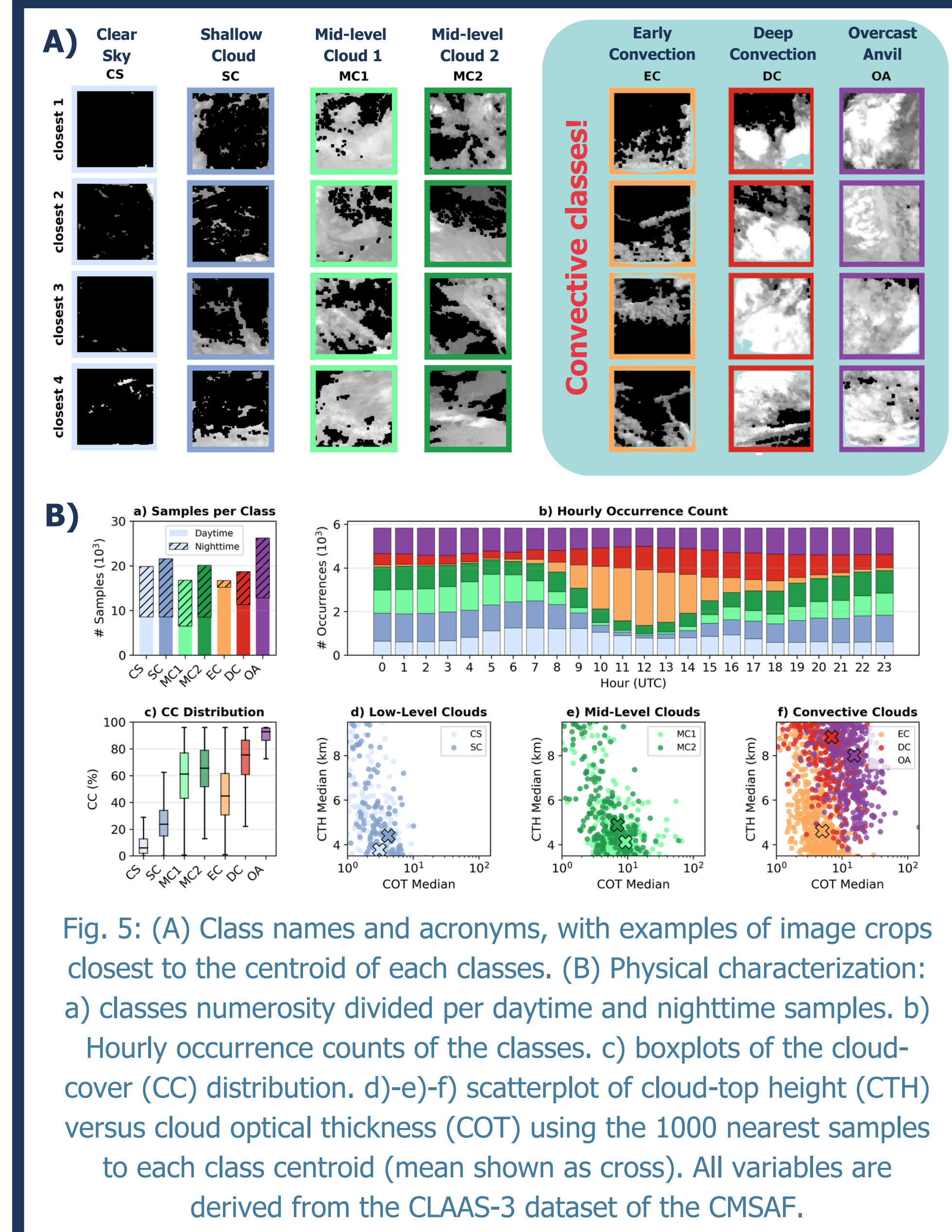
3. DATA



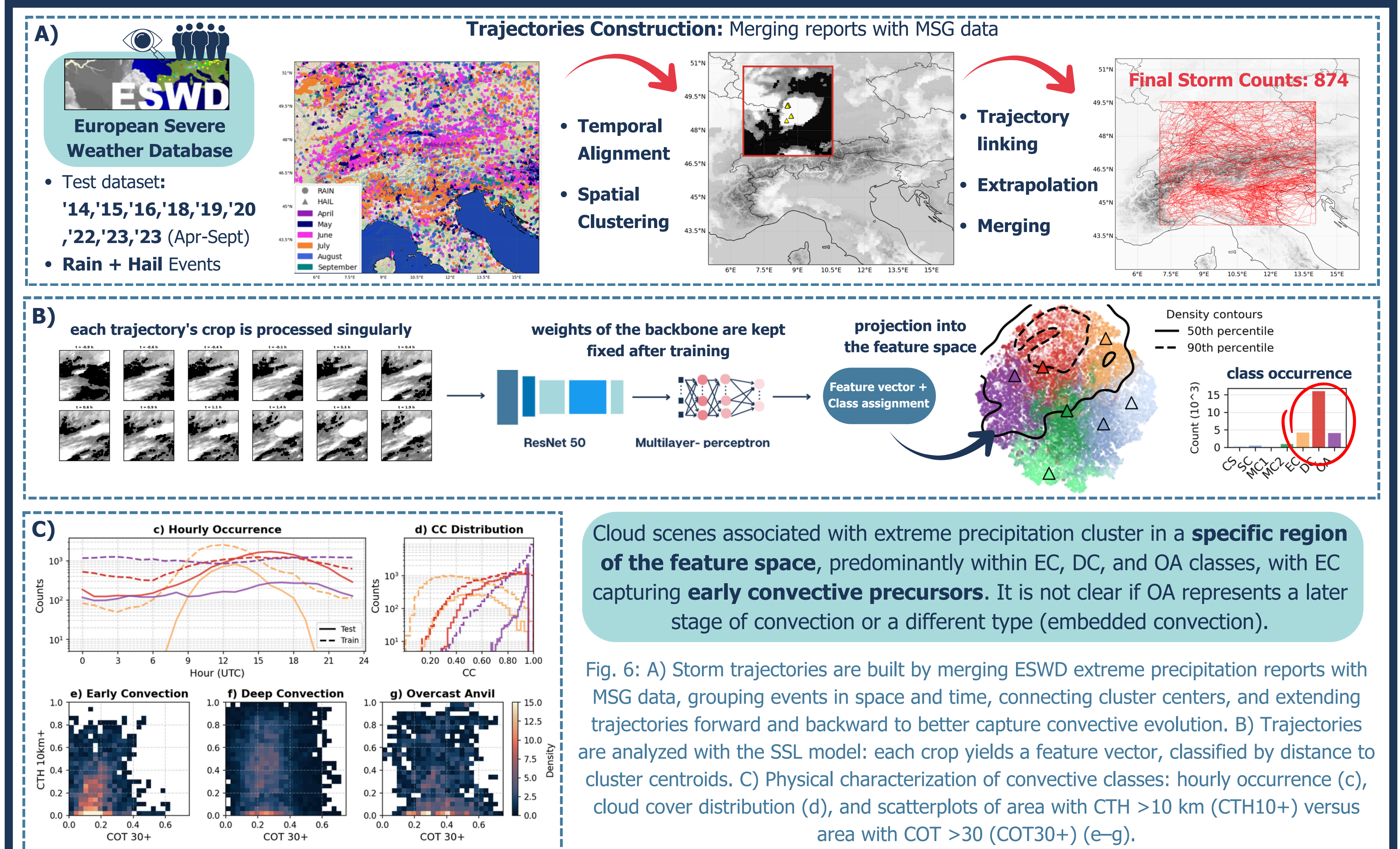
4. DEEP LEARNING METHOD



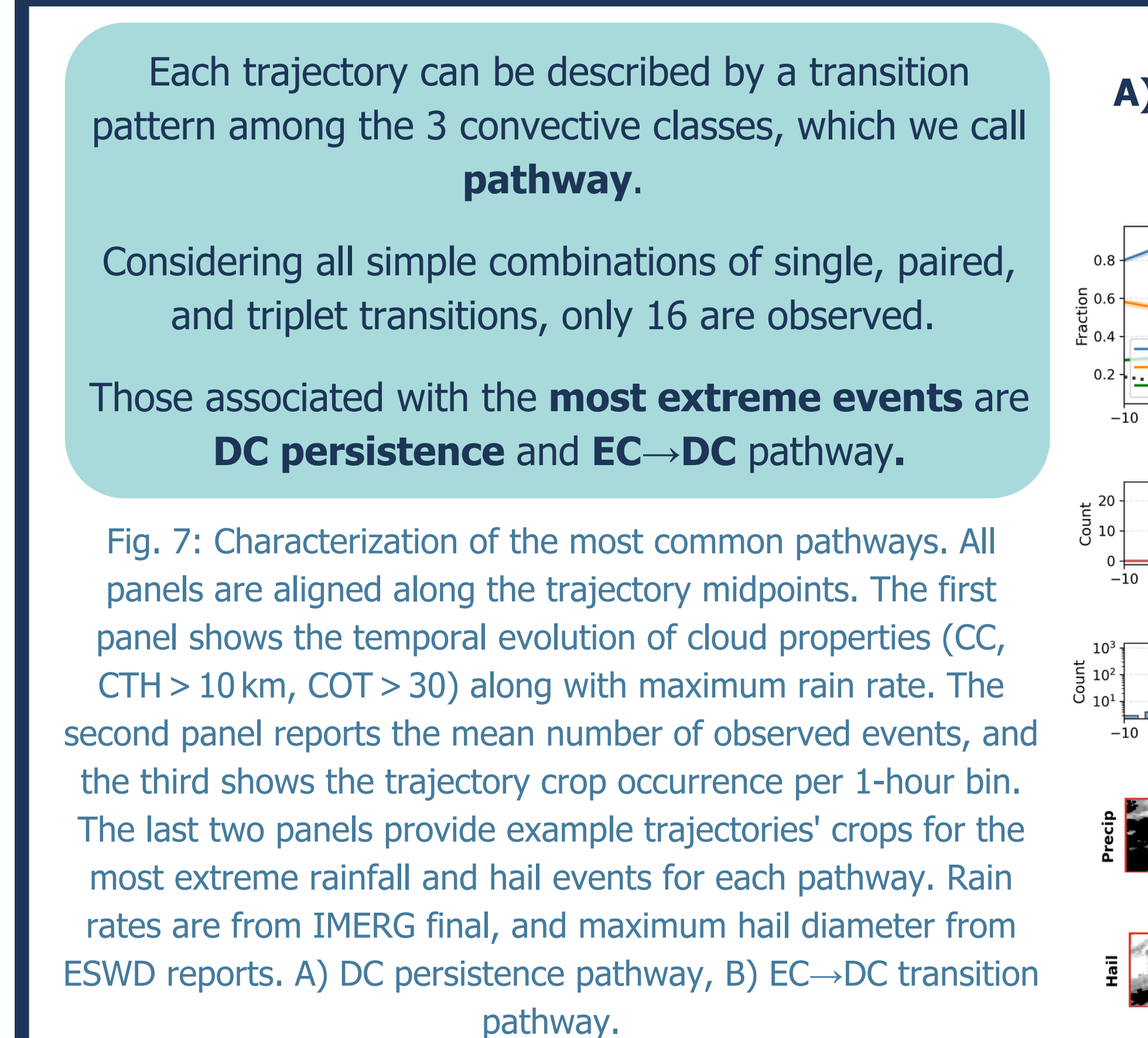
5. CHARACTERIZATION



6. IDENTIFYING EXTREME EVENTS



7. PATHWAYS ANALYSIS



8. CONCLUSION

