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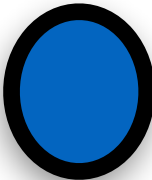

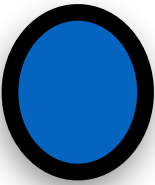

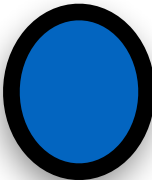

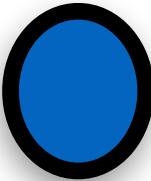

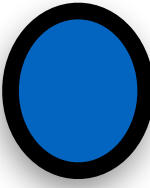

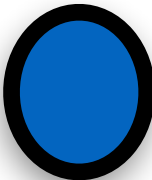

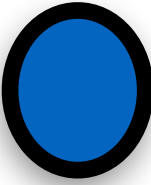

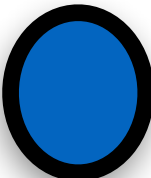

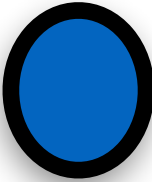

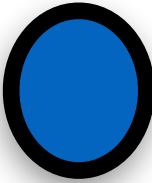

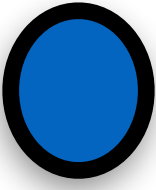

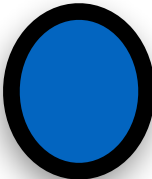

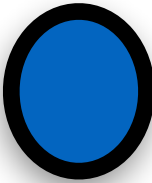

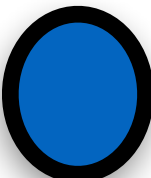

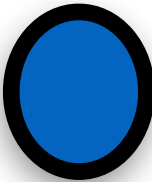

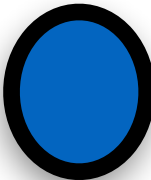

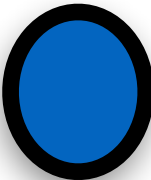

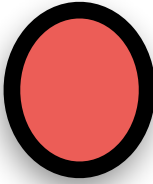

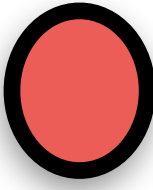

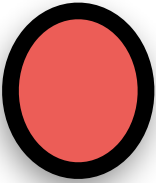

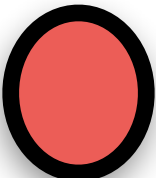

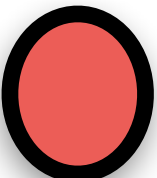

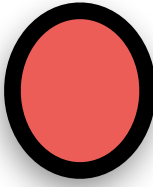

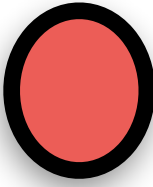

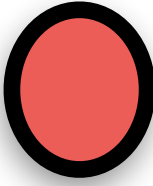

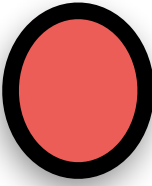

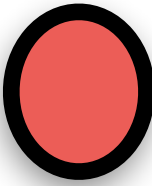

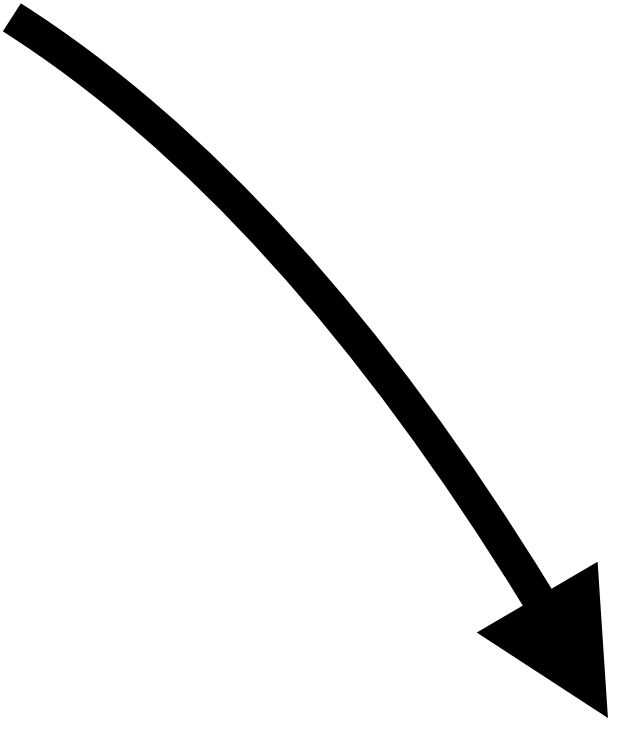

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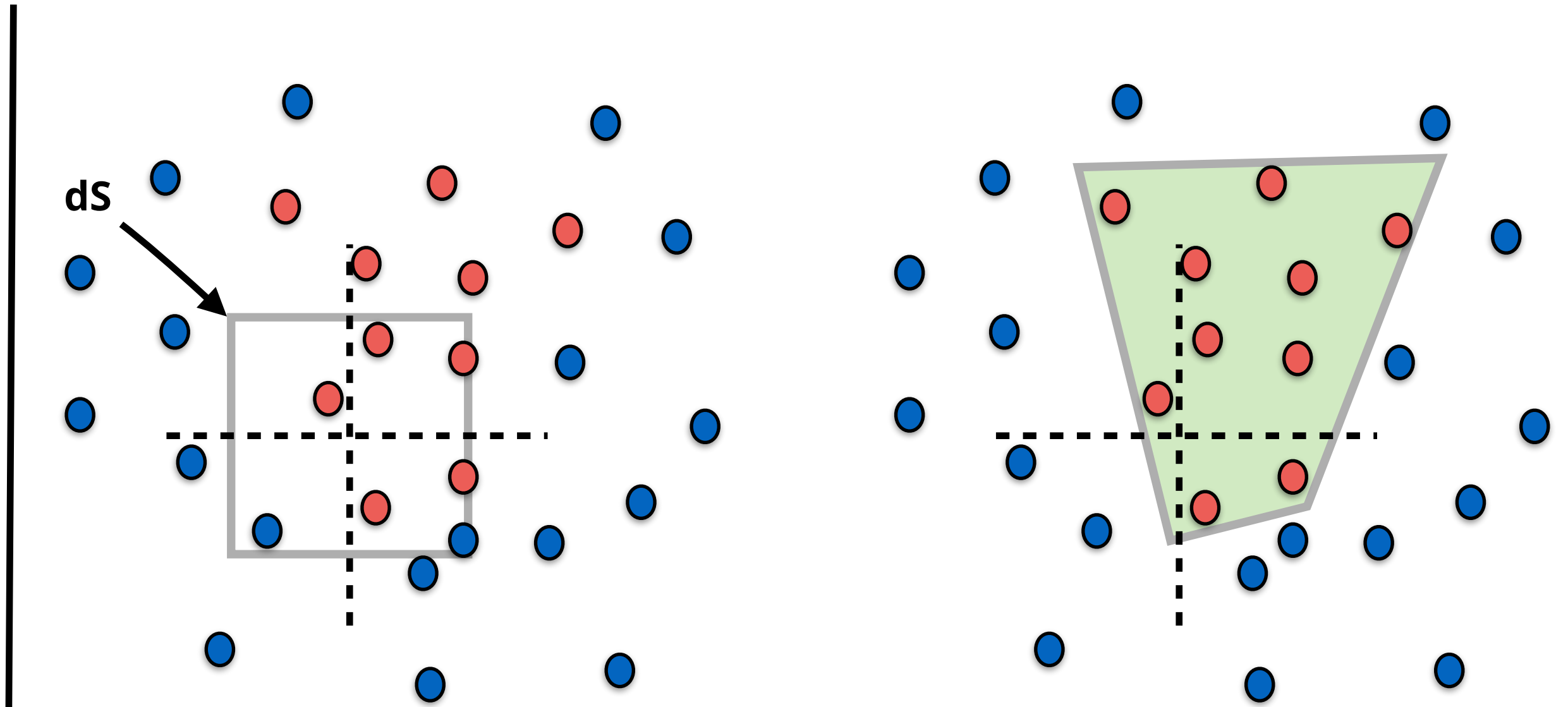
Eulerian vs Lagrangian approach

● instant t+dt

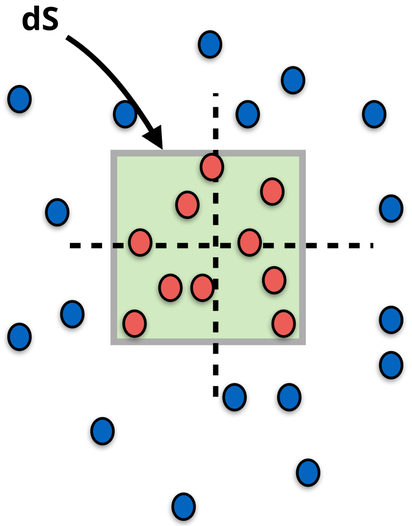


Eulerian: Evolution of a quantity inside a fixed box

Lagrangian: Evolution of a quantity following the particles in their motion

Eulerian vs Lagrangian approach

- instant t



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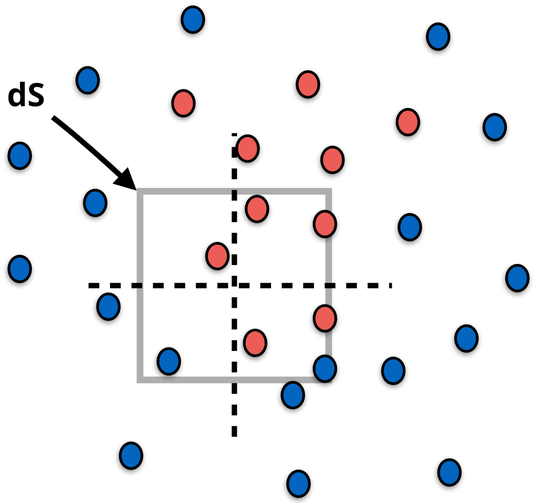

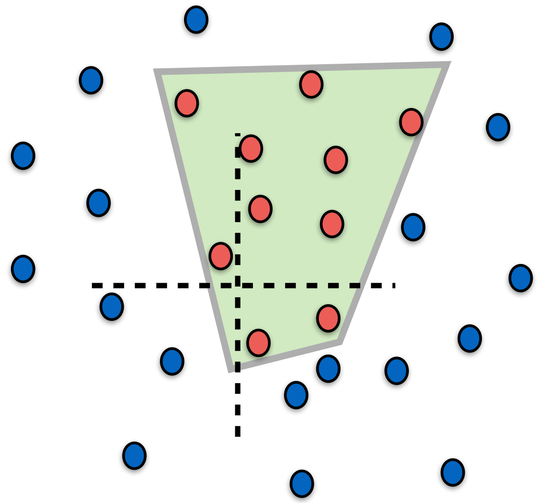

Eulerian: Evolution of a quantity inside a fixed box

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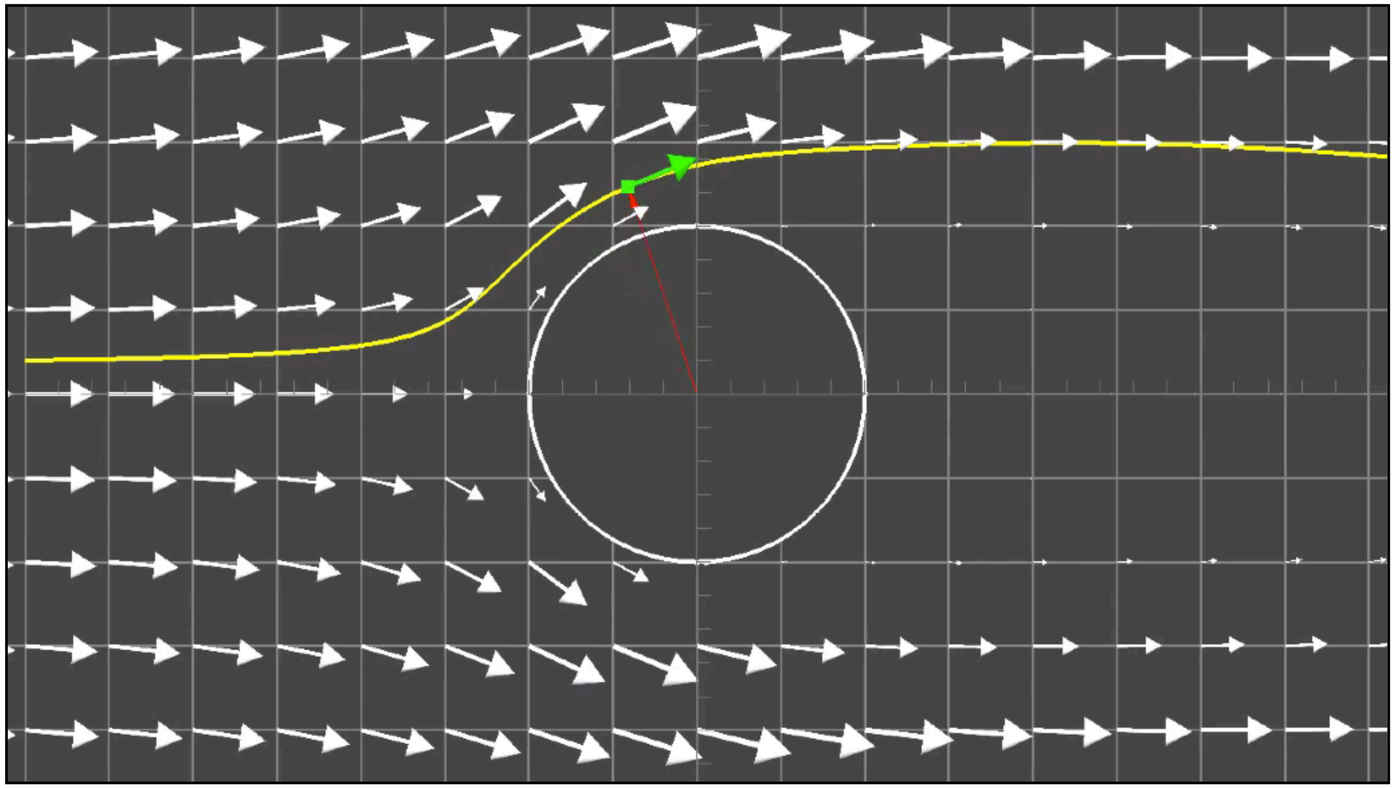
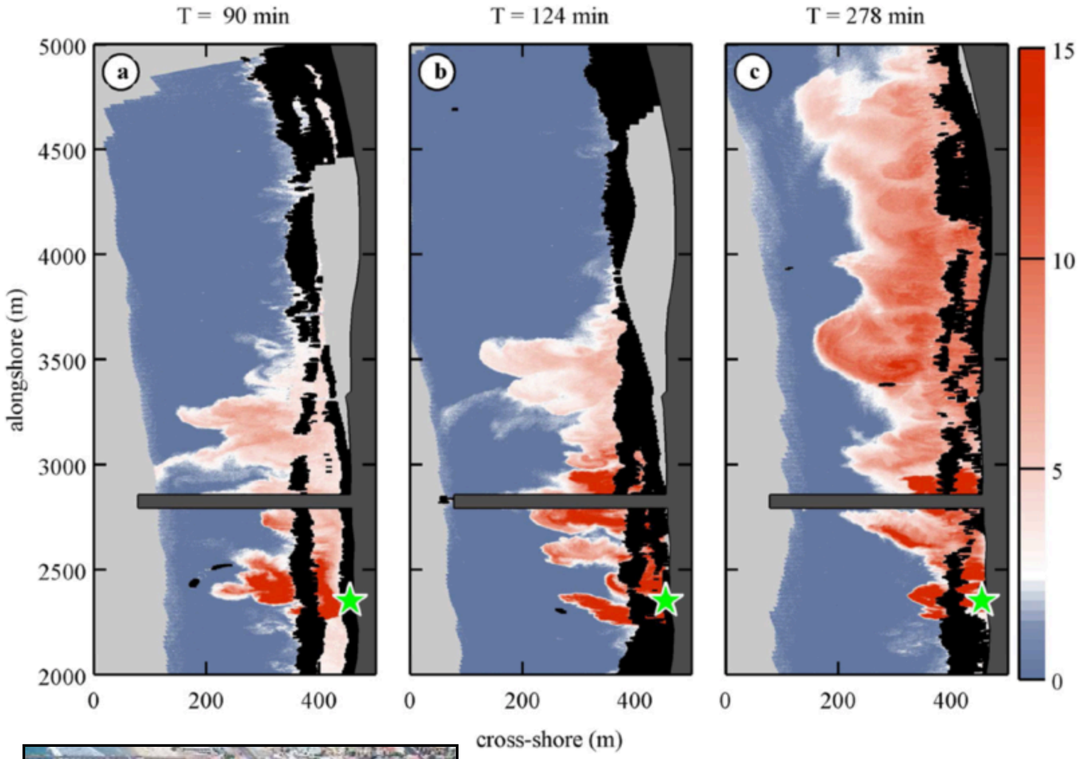
Eulerian vs Lagrangian approach



Particle pathline and velocity vector overlaid on the Eulerian vector description of the steady flow field around a circular cylinder (Re=40).

(Simulations with YAFFA Postprocessing with Paraview Tommi Mikkola)



Photographs of non-toxic fluorescent dye tracer (pink water) one hour after continual surfzone dye release at Imperial Beach California

(Clark et al. 2014)