**Main structure**

snapwave

read\_snapwave\_input

initialize\_snapwave\_domain

read\_boundary\_conditions

nc\_output\_map\_init

do while t<tstop

update\_boundary\_conditions(t)

compute\_wave\_field

ncoutput\_update\_map(t, it)

t = t + timestep

enddo

ncoutput\_map\_finalize

**Detailed structure**

snapwave

read\_snapwave\_input

read\_real\_input  
 read\_real\_array\_input  
 read\_int\_input  
 read\_char\_input

initialize\_snapwave\_domain

fm\_surrounding\_points  
 find\_upwind\_neighbours

read\_boundary\_data

read\_boundary\_data\_singlepoint  
 read\_boundary\_data\_timeseries  
 find\_boundary\_indices

nc\_output\_map\_init

do while t<tstop

update\_boundary\_conditions(t)

compute\_wave\_field

ncoutput\_update\_map(t, it)

t = t + timestep

enddo

ncoutput\_map\_finalize