

Task 2

Survey Data

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```
dirMy = "/home/laurence/Desktop/sea++/mydas/tasks"
dirInp=file.path(dirMy,"inputs")
dirDat=file.path(dirMy,"data")
```

[1]	"species_fao"	"scientific_name"	"english_name"
[4]	"speccode"	"speciesgp"	"haulid"
[7]	"survey_acronym"	"speciessciname"	"fishlength_cm"
[10]	"number"	"densabund_n_sqkm"	"densbiom_kg_sqkm"
[13]	"ices_rectangle"	"ices_division"	"ship"
[16]	"geartype"	"gear"	"year"
[19]	"monthshot"	"dayshot"	"timeshot"
[22]	"hauldur_min"	"latitude"	"longitude"
[25]	"icesstsq"	"survstratum"	"depth_m"
[28]	"distance_km"	"wingspread_m"	"doorspread_m"
[31]	"netopen_m"	"wingswparea_sqkm"	"wingswpvol_corf"
[34]	"doorswptarea_corf"	"doorswptvol_corf"	"flag"
[1]	"Thornback ray "	"Small-eyed ray "	"Shagreen ray "
[4]	"Sandy ray "	"Spotted ray "	"Longnosed skate "
[7]	"Undulate ray "	"European sprat"	"Grey gurnard"
[10]	"Ling"	"Blue ling"	"Spanish ling"
[13]	"John dory"	"Saithe"	"Pollack"
[16]	"Turbot"	"Brill"	
[1]	"7G" "7A" "7H" "7J" "7B" "6A" "7C" "4C" "4B" "6B" "7E" " 8" "4A" "7D"		
[15]	"3A"		

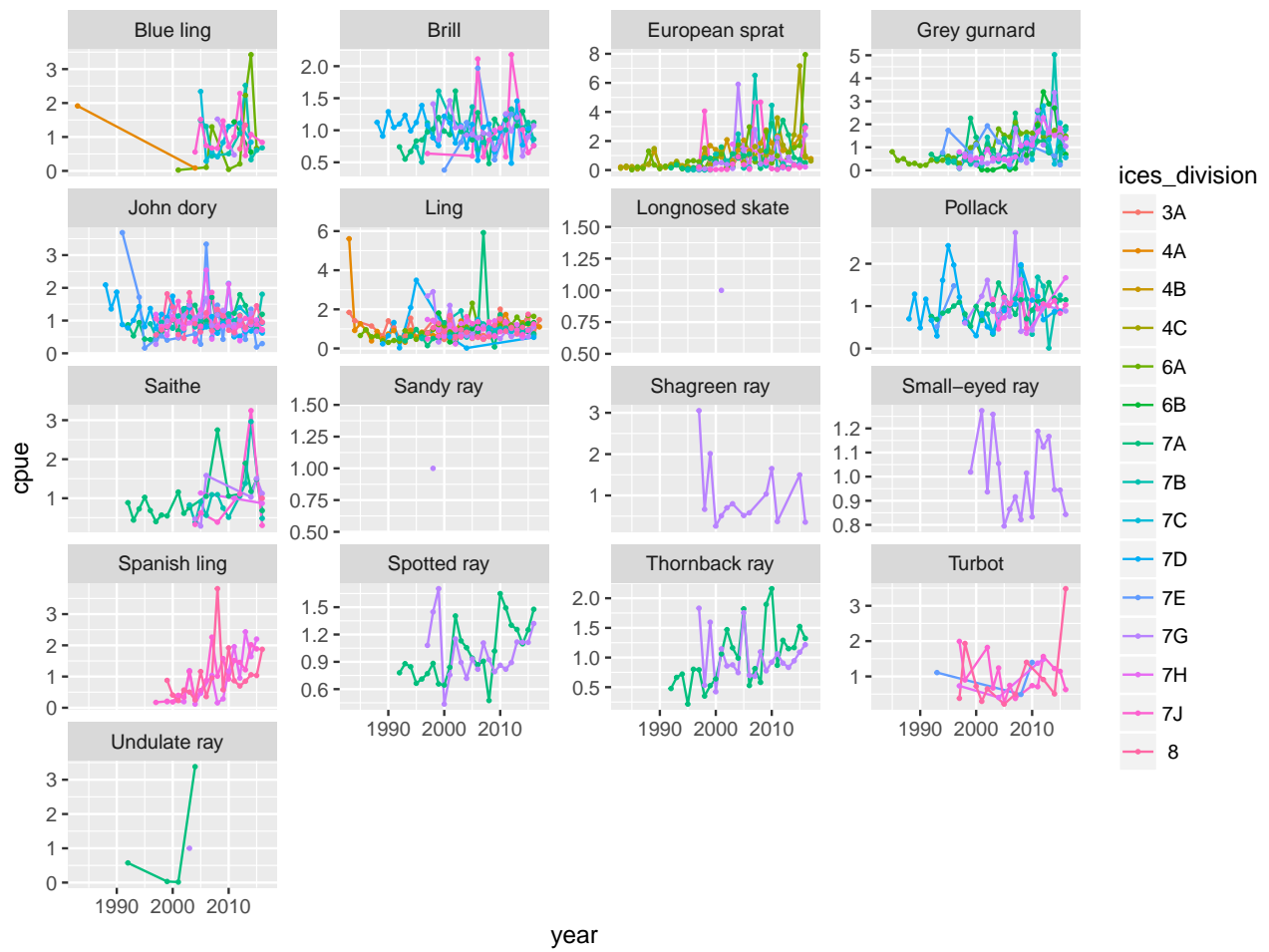


Figure 1. Time series of surveys.