

# Shortlist Master plan Wind Monitoring fish eggs and larvae in the Southern North Sea: Final report *Part B*

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## Appendix A. Egg and larvae spatial and temporal distributions

Appendix A contains the spatial and temporal distribution maps by species for each egg and larvae development stage. For those species which do not produce pelagic eggs or eggs could not be identified to species only maps for the different larvae stages are shown.

For the explanation of the different stages see the materials and methods section in Part A of the report.

### Herring *Clupea harengus*

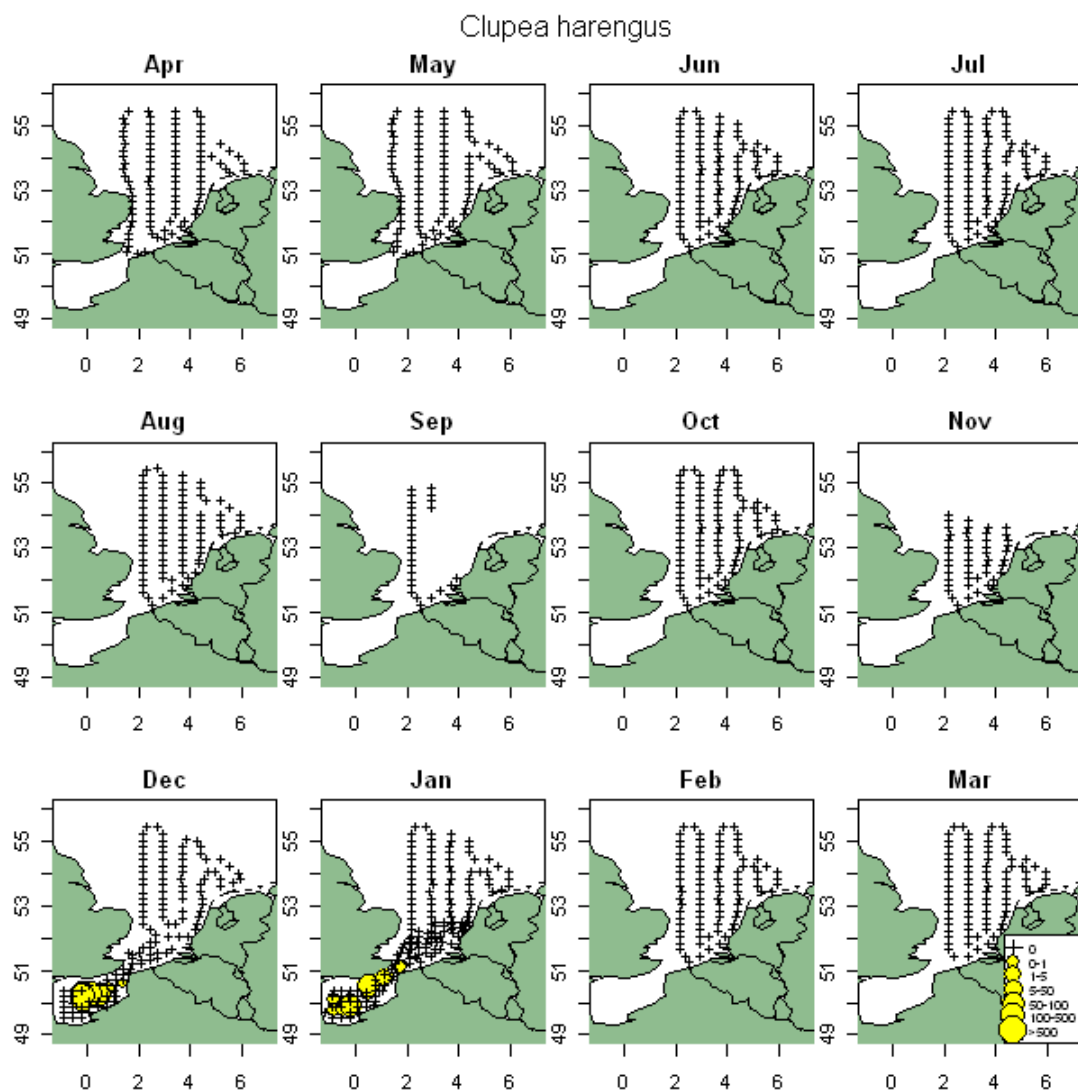


Figure 1a. Spatial and temporal distribution of yolk sac herring larvae.

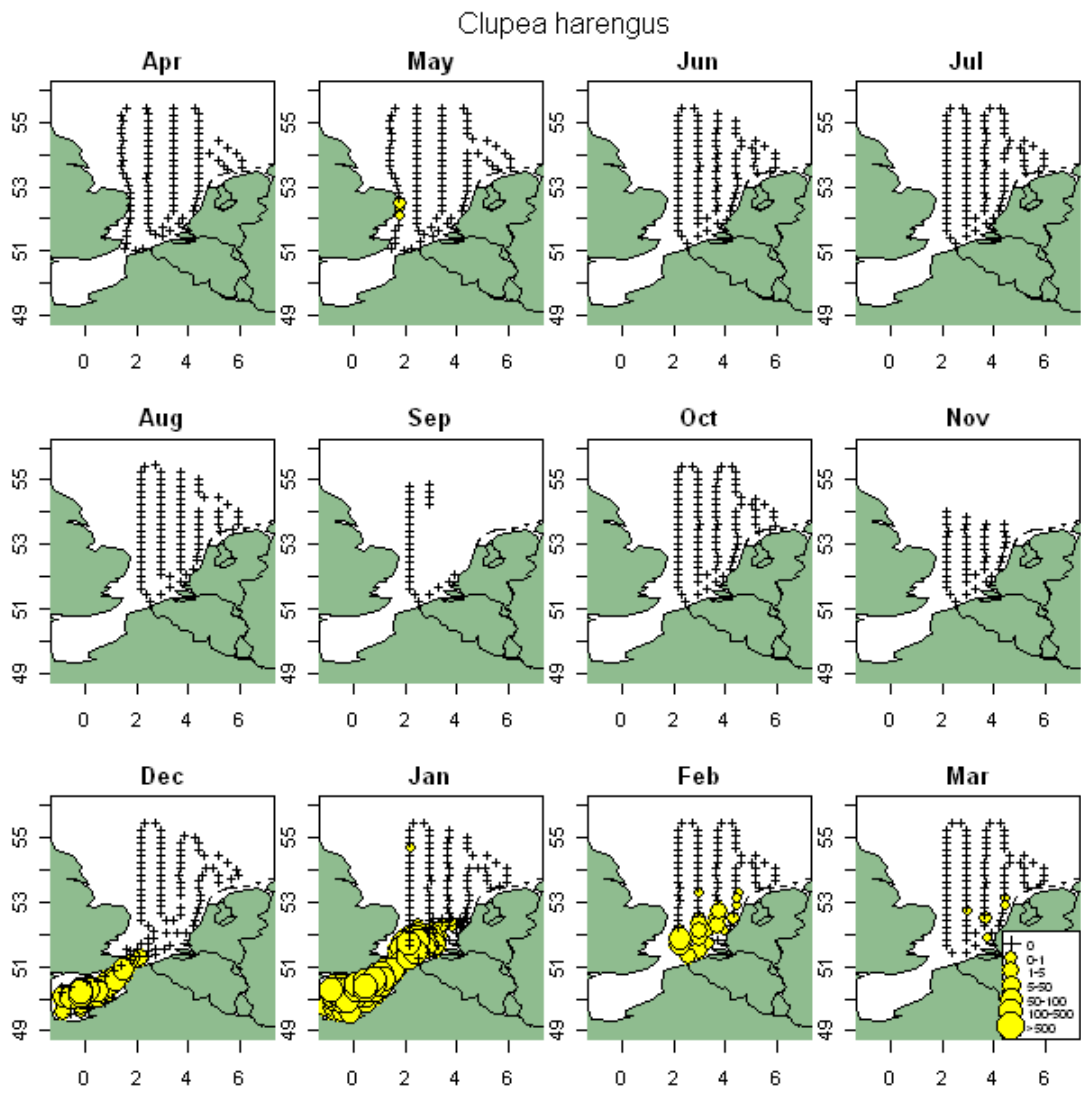


Figure 1b. Spatial and temporal distribution of non-yolk sac herring larvae.

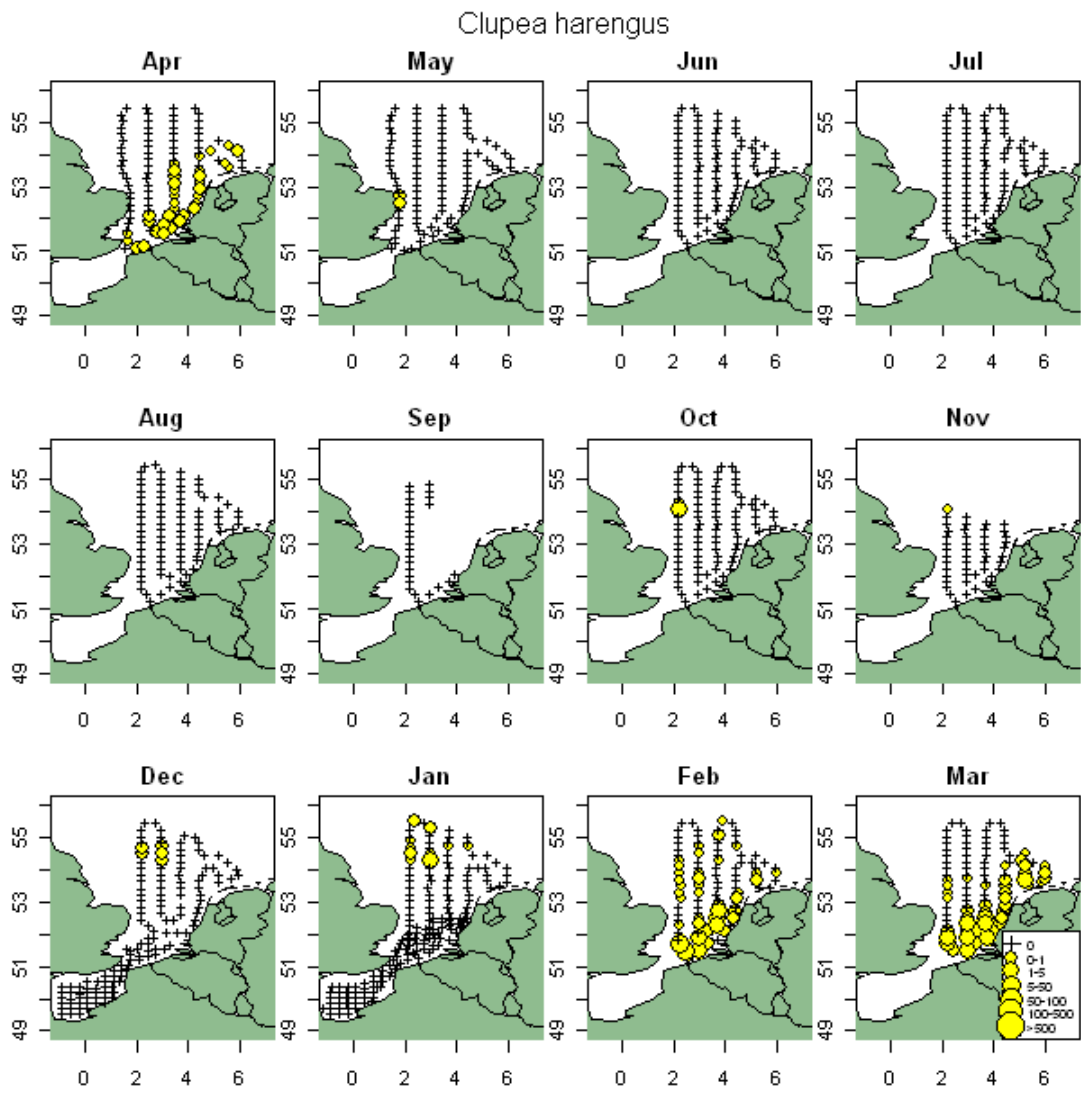


Figure 1c. Spatial and temporal distribution of bent notochord stage herring larvae.

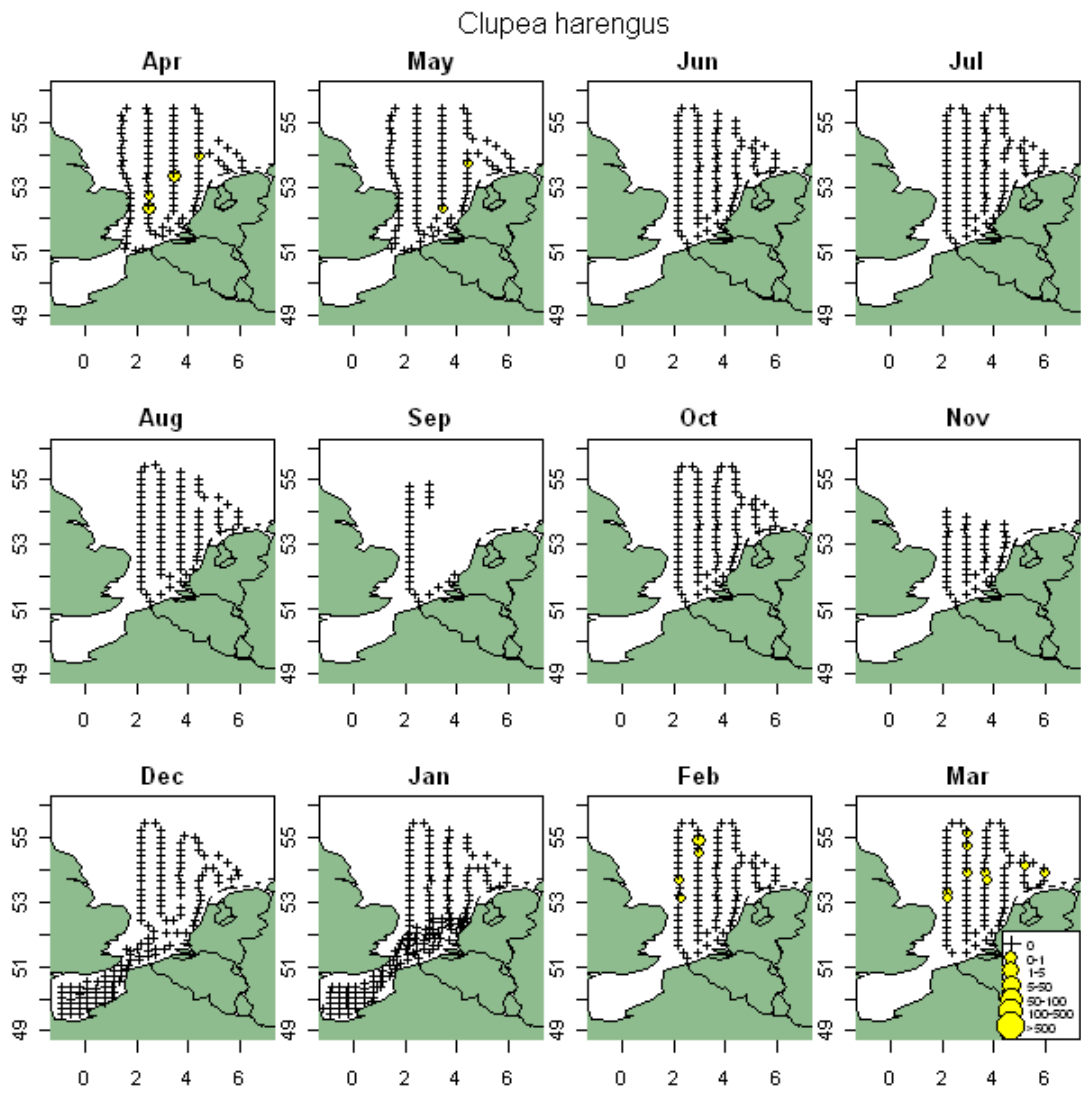


Figure 1d. Spatial and temporal distribution of metamorphosing herring larvae.



**Sprat *Sprattus sprattus***

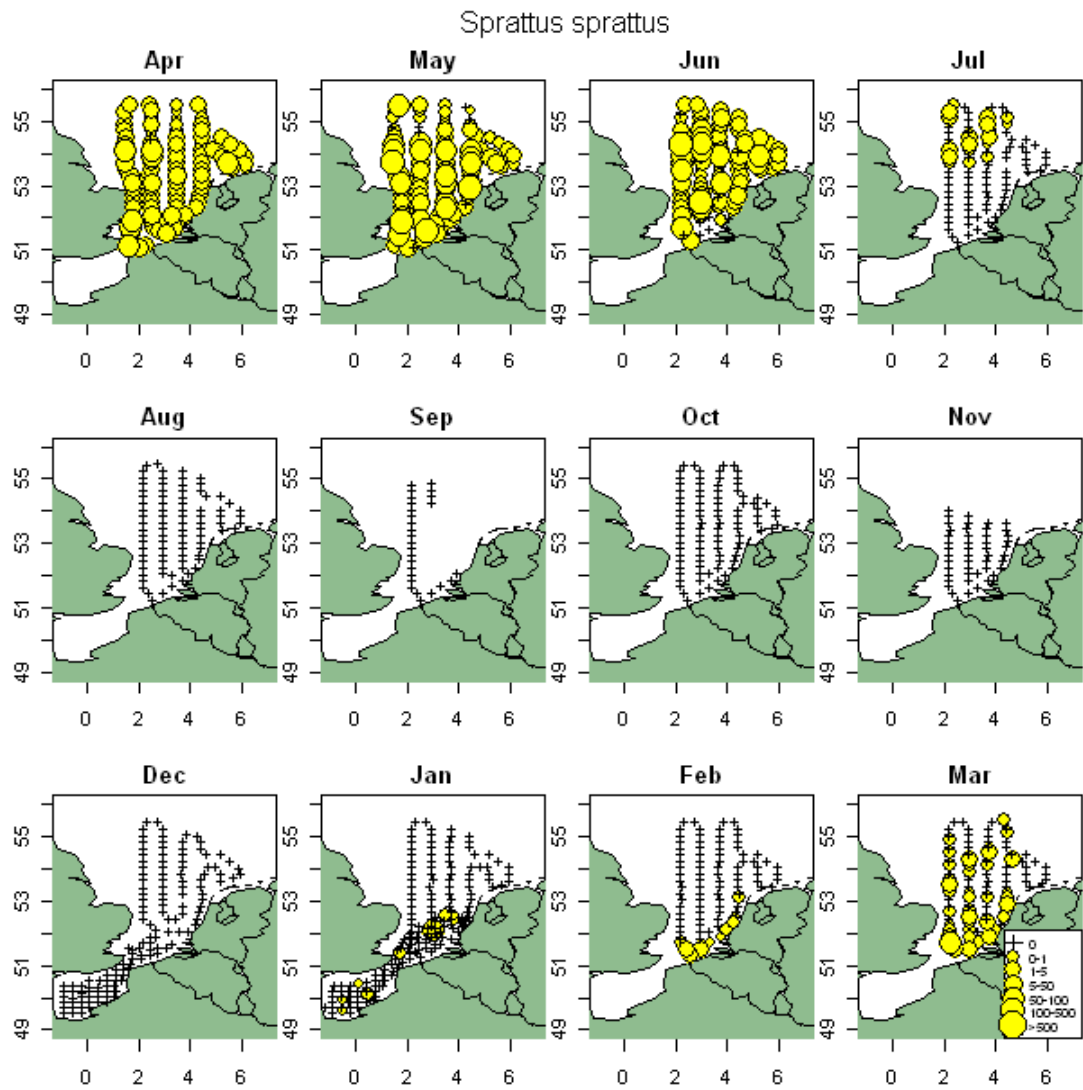


Figure 2a. Spatial and temporal distribution of stage 1 sprat eggs.

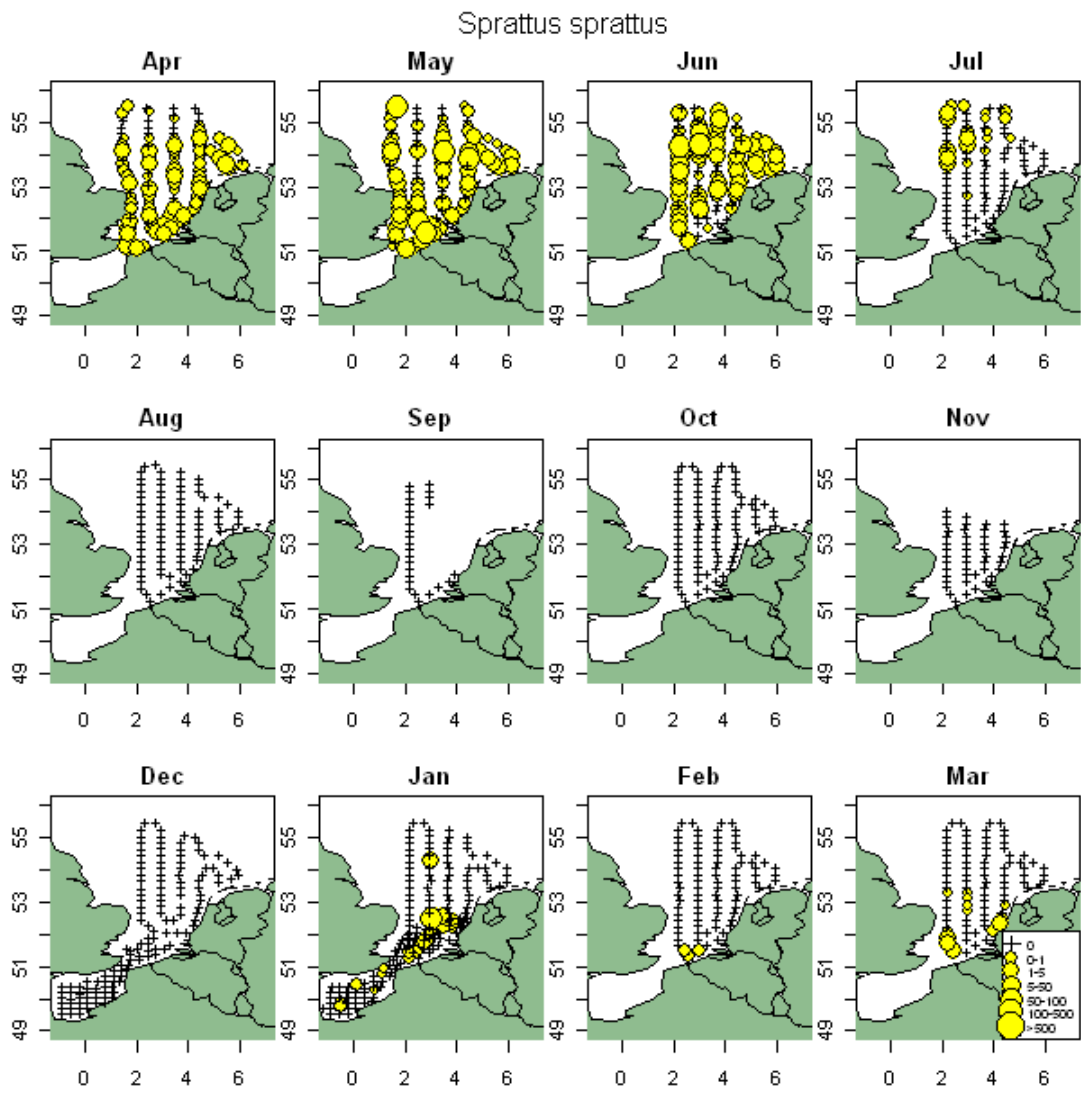


Figure 2b. Spatial and temporal distribution of stage 2 sprat eggs.

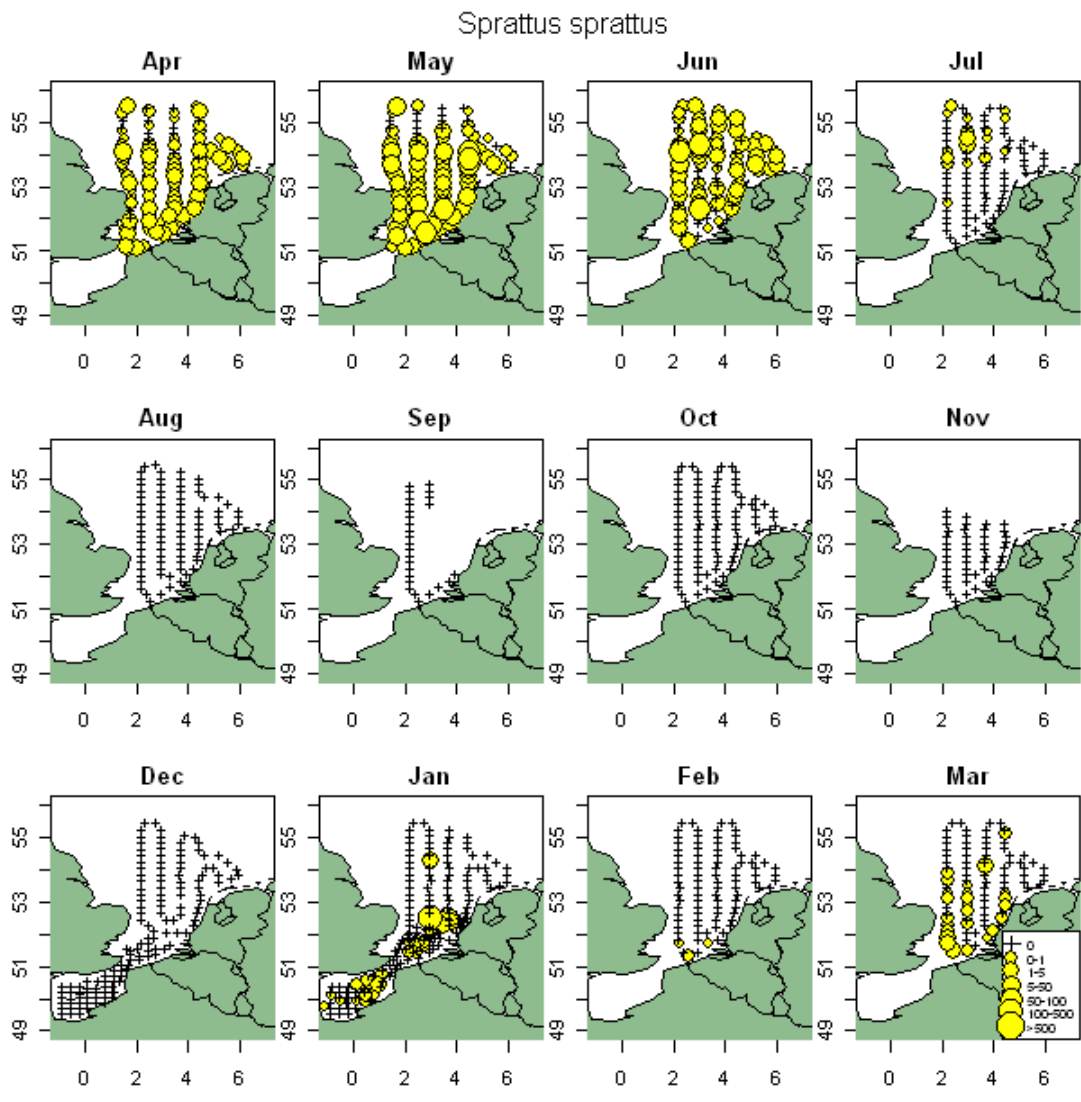


Figure 2c. Spatial and temporal distribution of stage 3 sprat eggs.

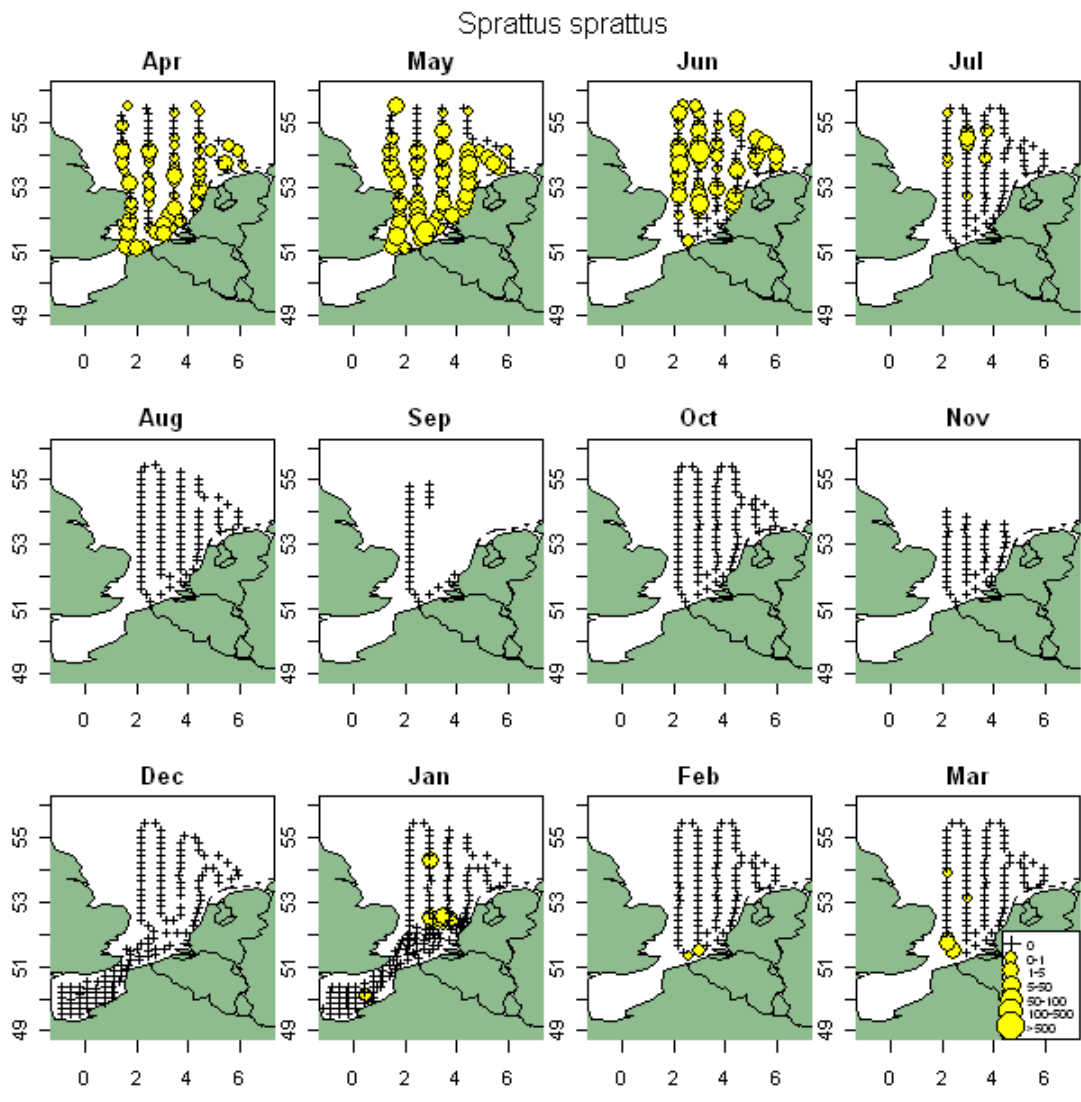


Figure 2d. Spatial and temporal distribution of stage 4 sprat eggs.

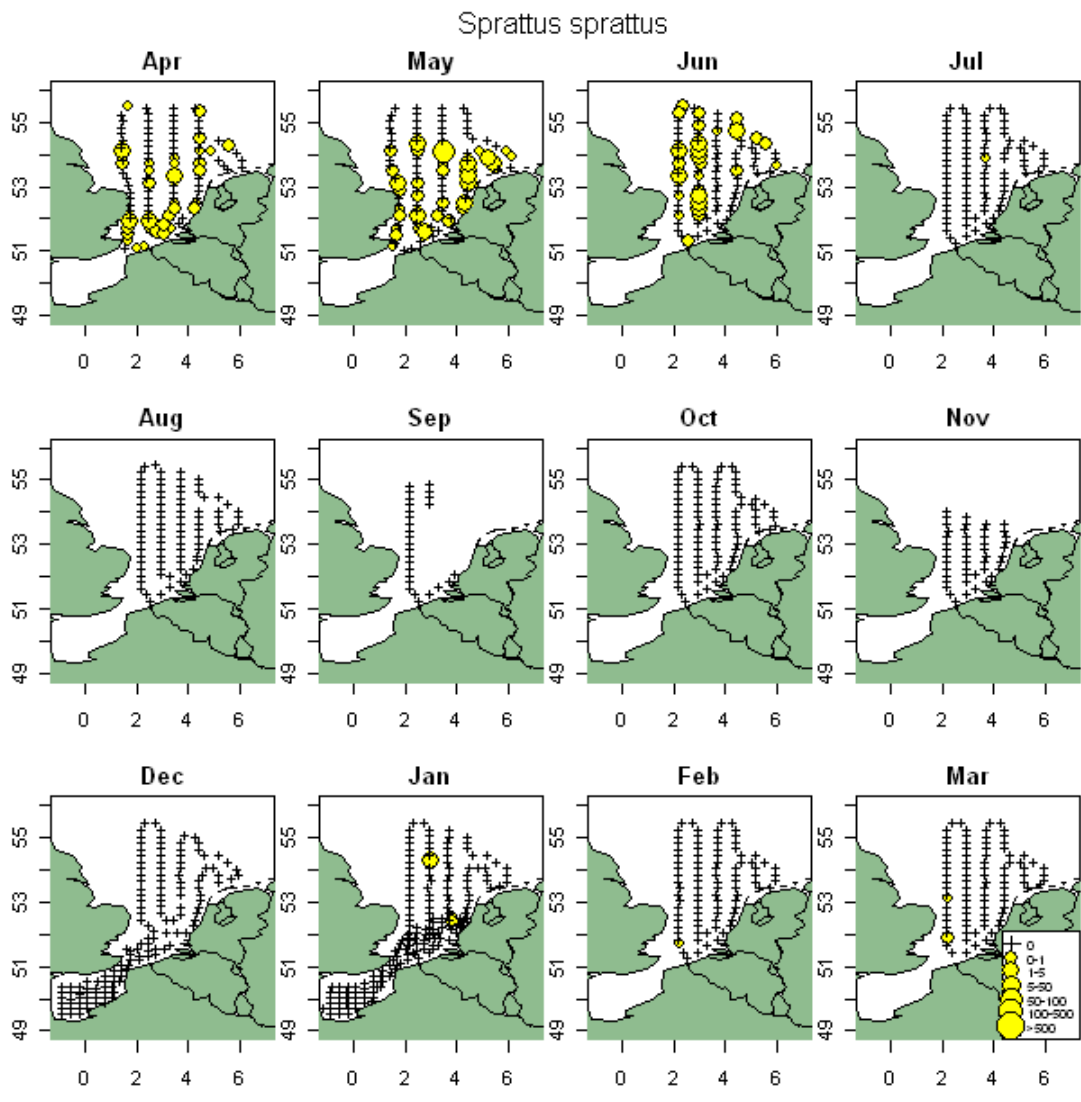


Figure 2e. Spatial and temporal distribution of stage 5 sprat eggs.

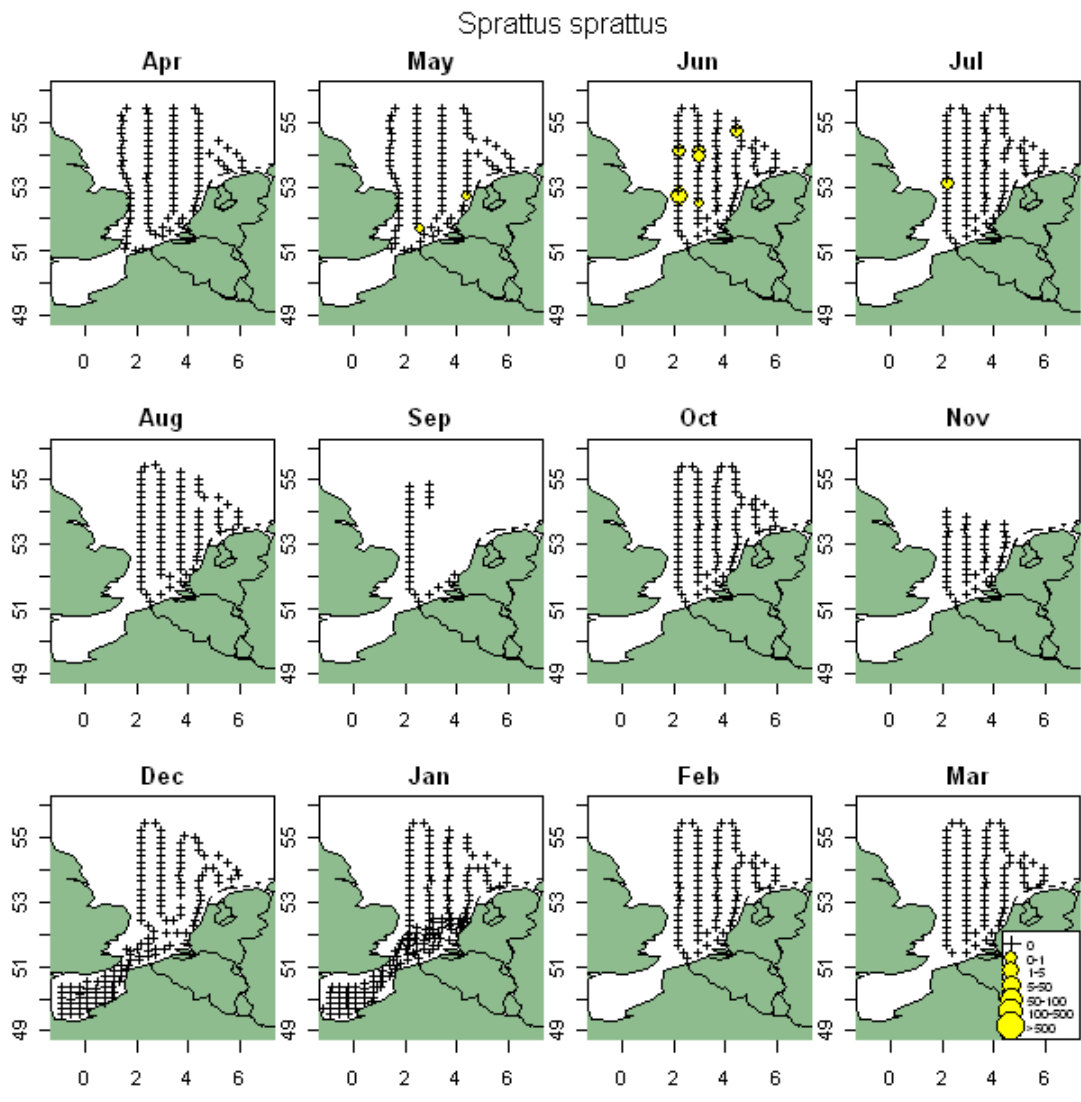


Figure 2f. Spatial and temporal distribution of yolk sac sprat larvae.

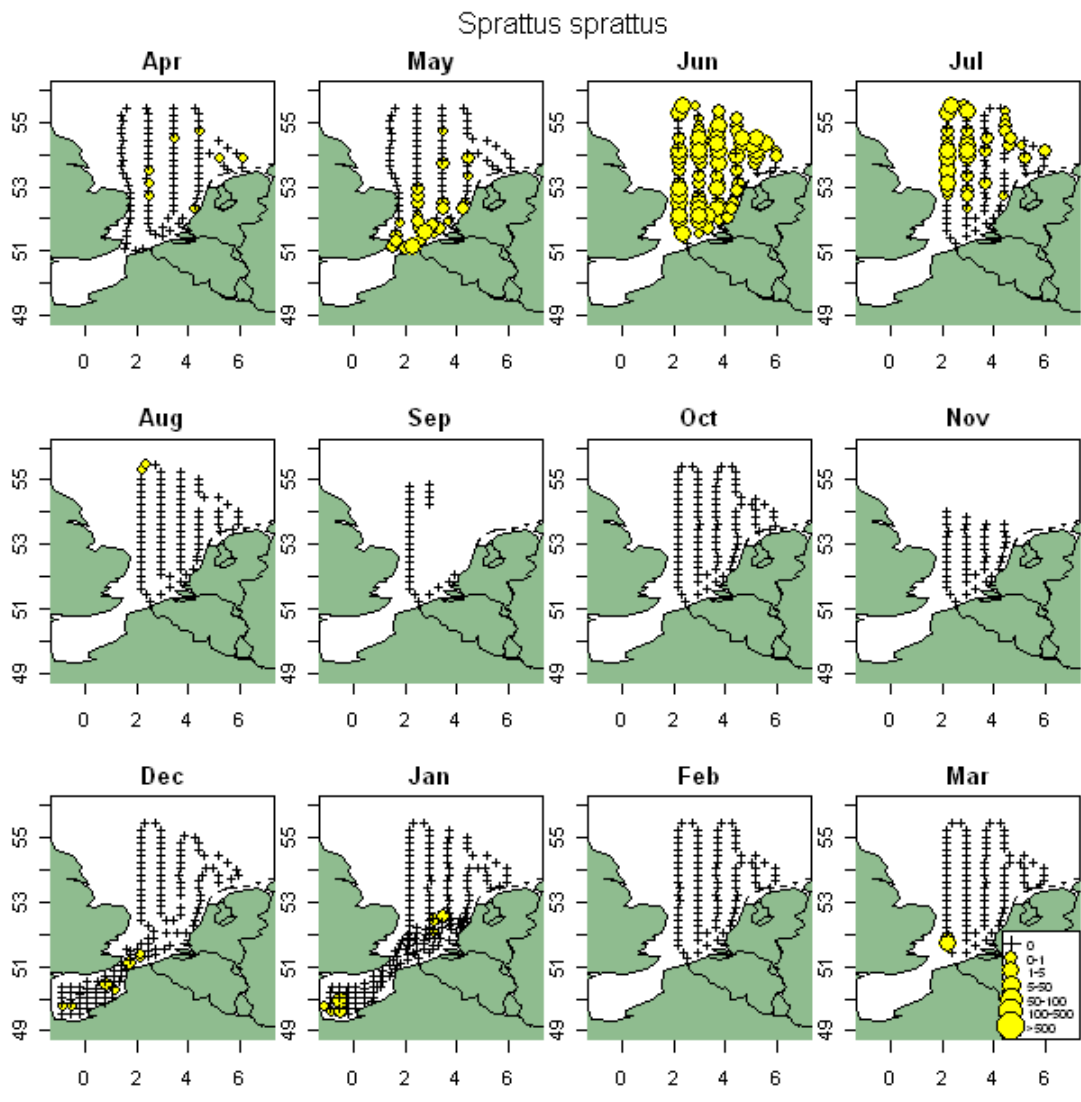


Figure 2g. Spatial and temporal distribution of non-yolk sac sprat larvae.

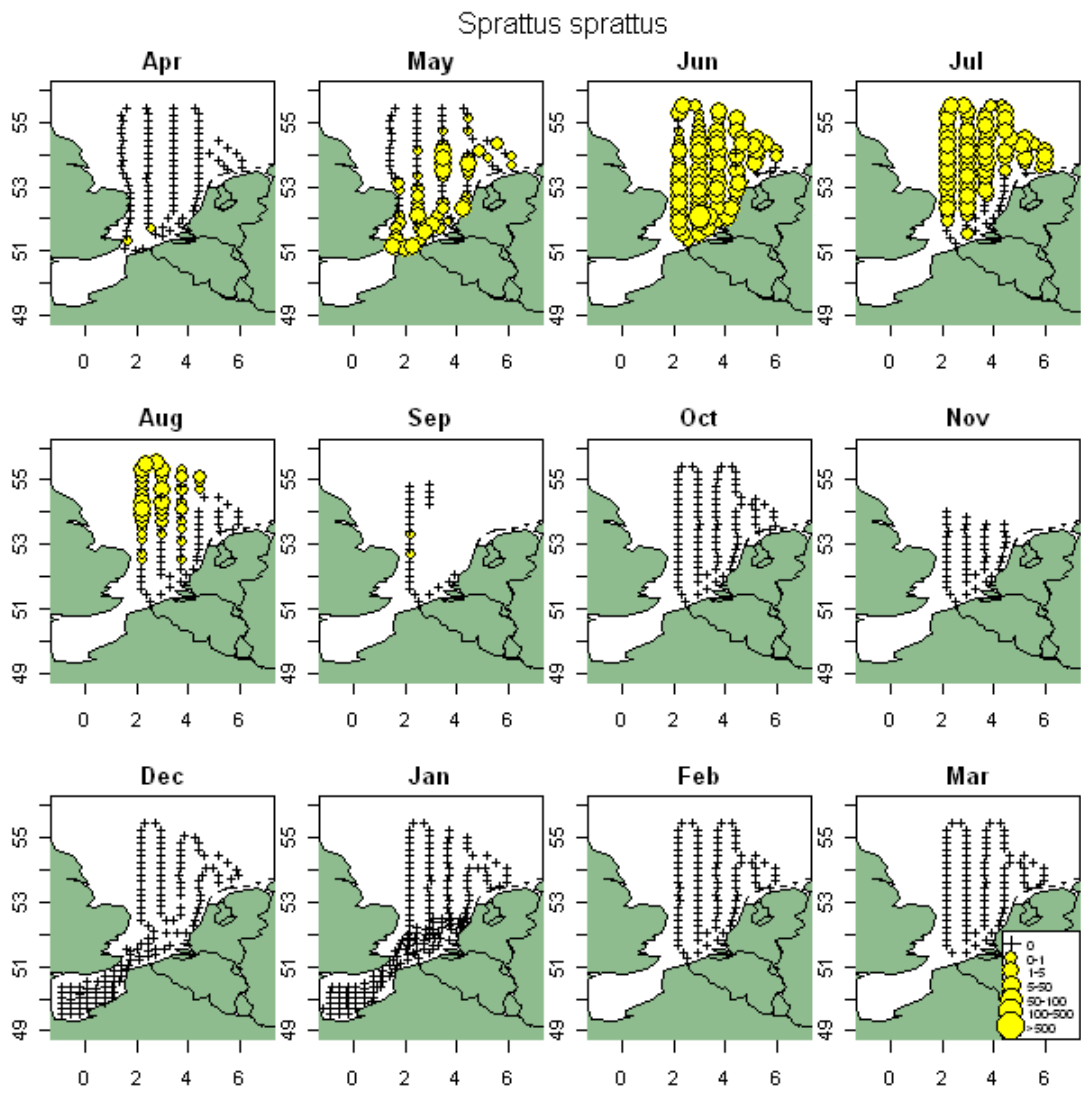


Figure 2h. Spatial and temporal distribution of bent notochord stage sprat larvae.



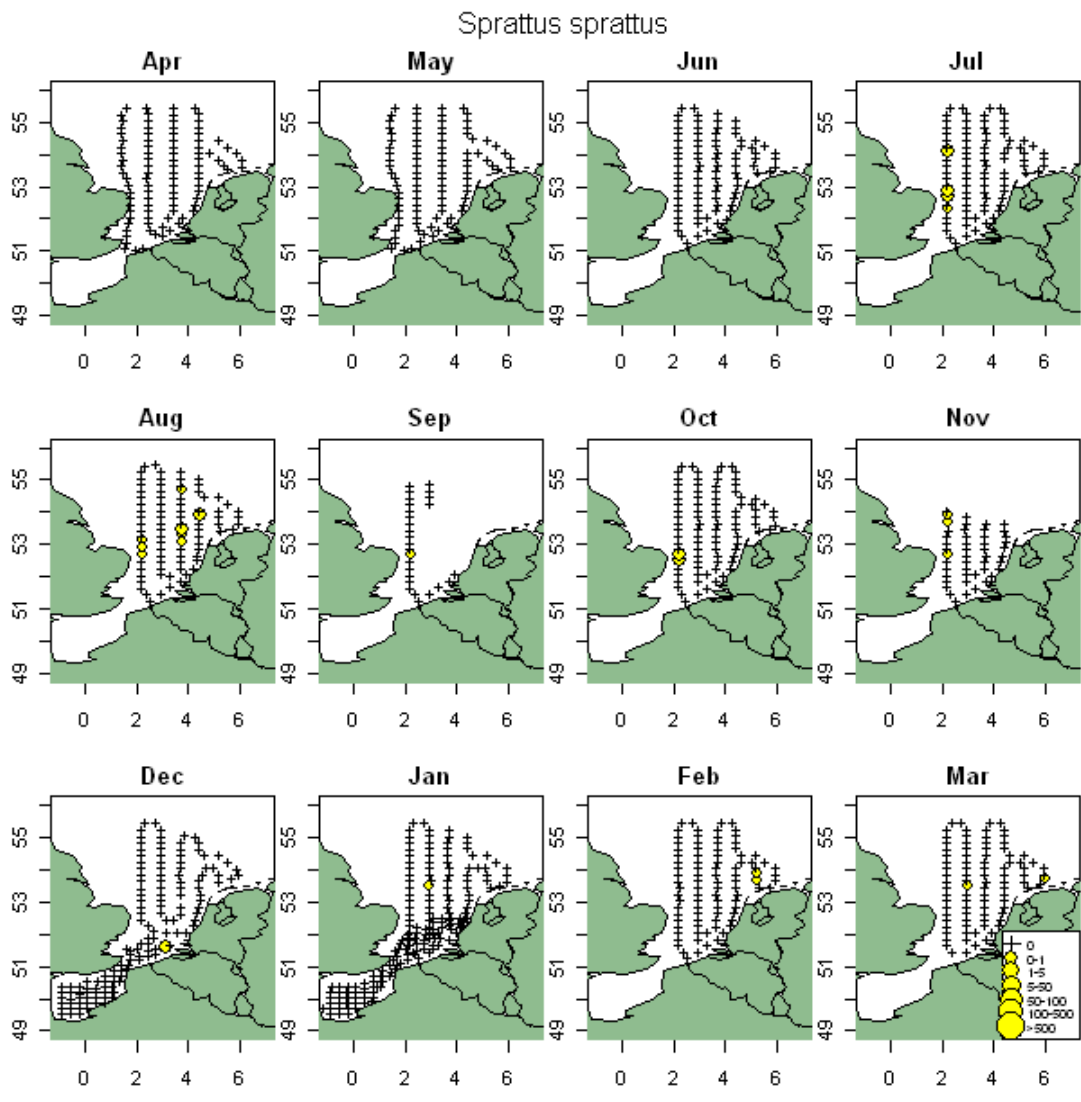


Figure 2i. Spatial and temporal distribution of metamorphosing sprat larvae.

**Pilchard *Sardina pilchardus***

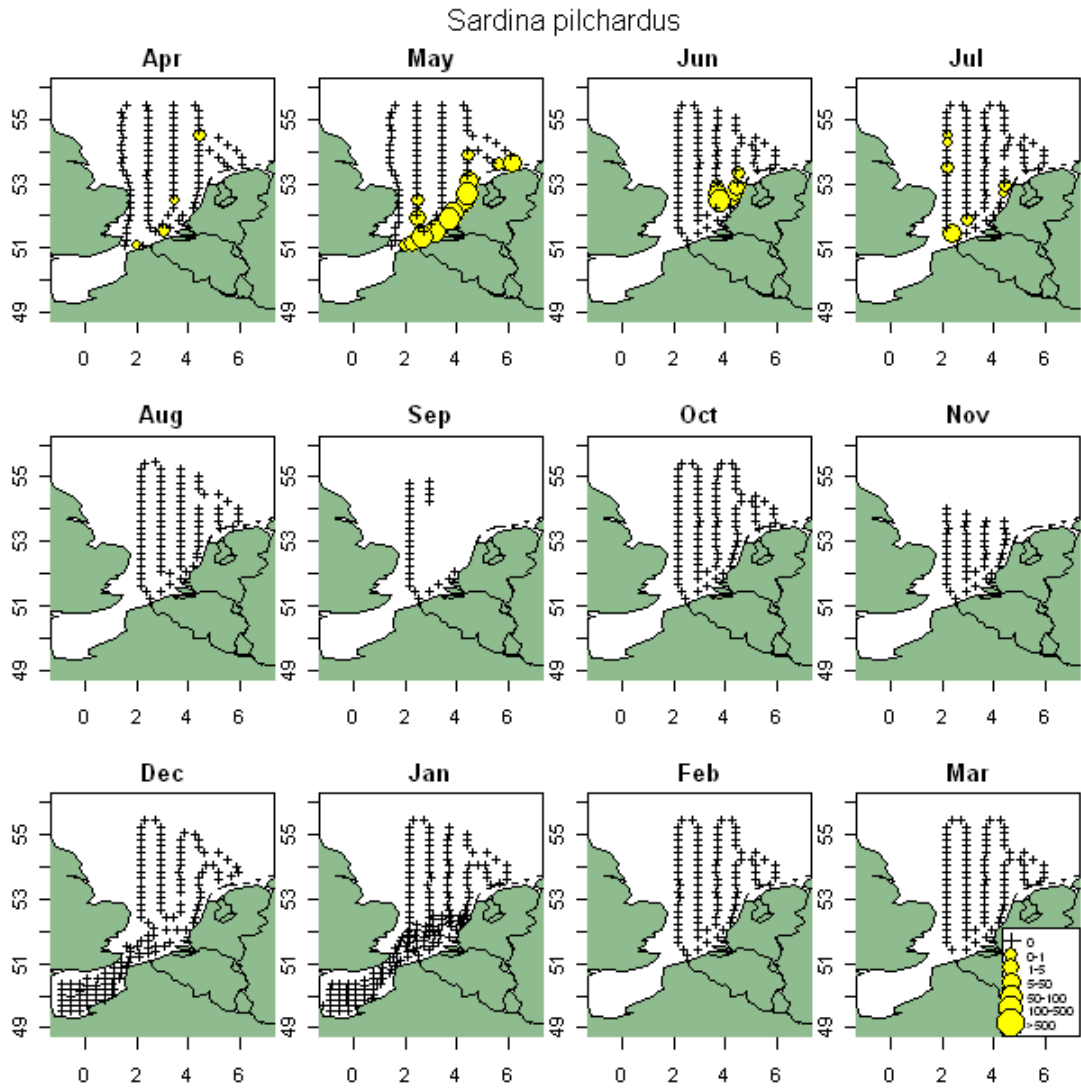


Figure 3a. Spatial and temporal distribution of stage 1 pilchard eggs.

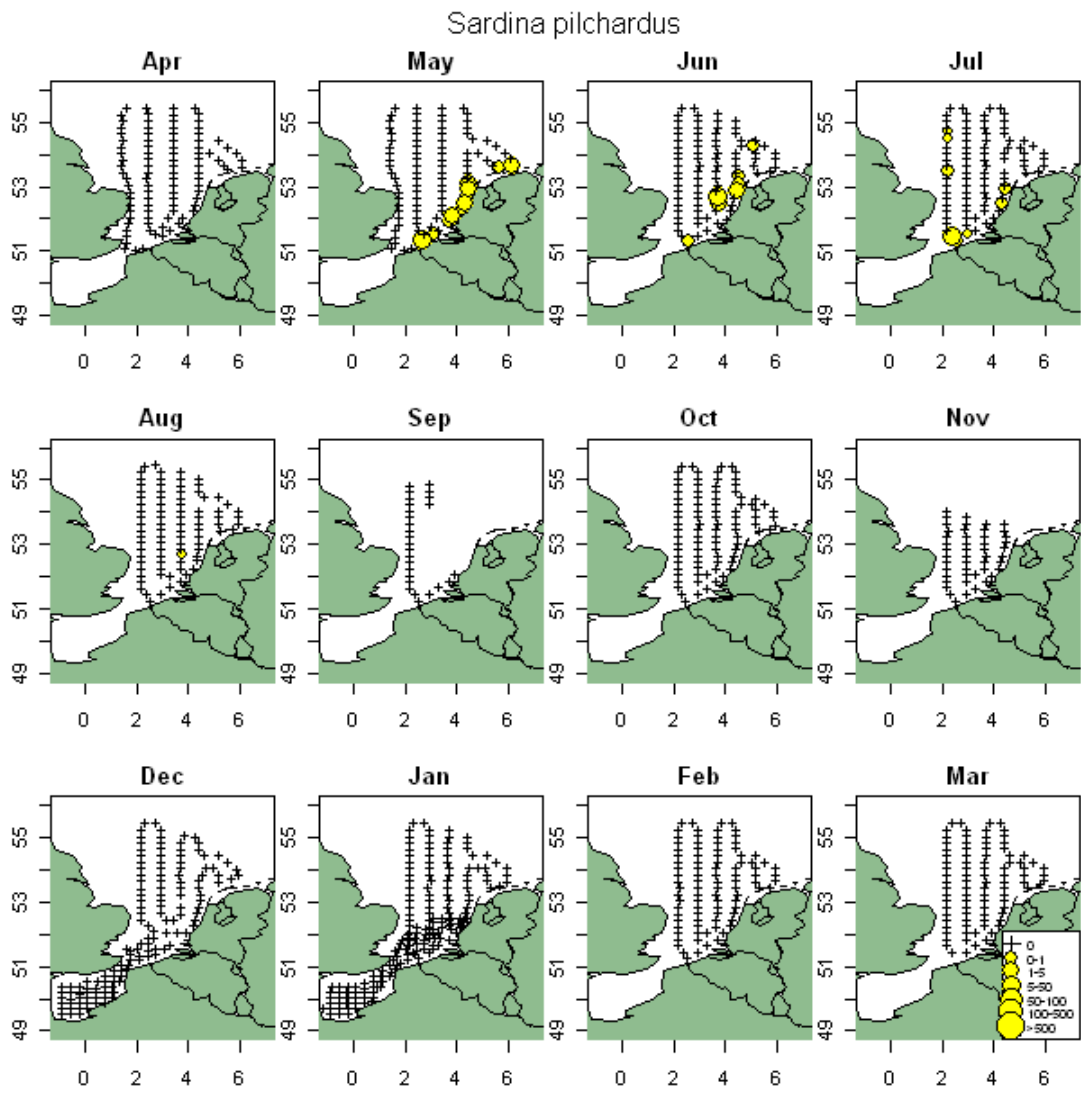


Figure 3b. Spatial and temporal distribution of stage 2 pilchard eggs.

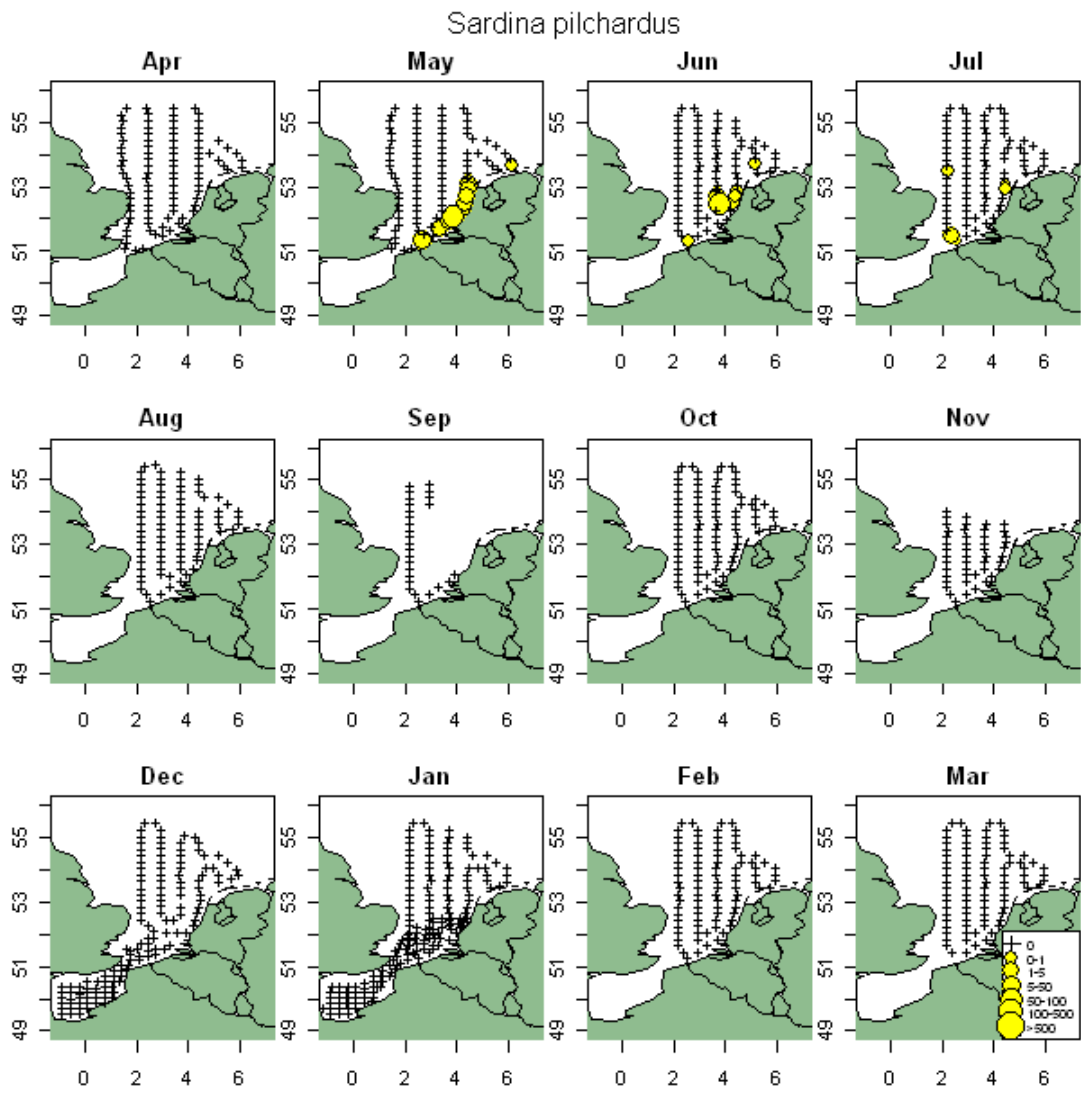


Figure 3c. Spatial and temporal distribution of stage 3 pilchard eggs.

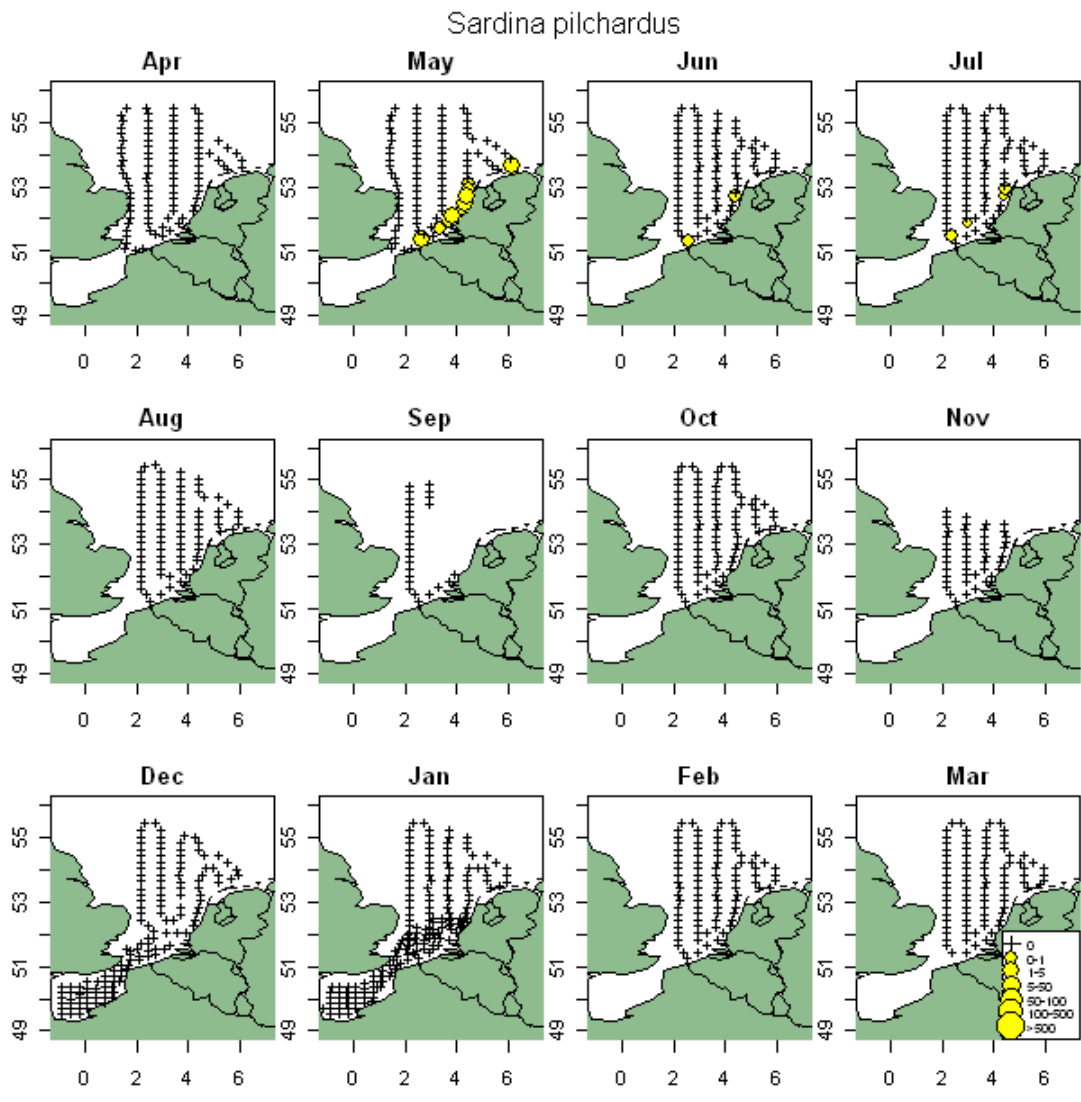


Figure 3d. Spatial and temporal distribution of stage 4 pilchard eggs.

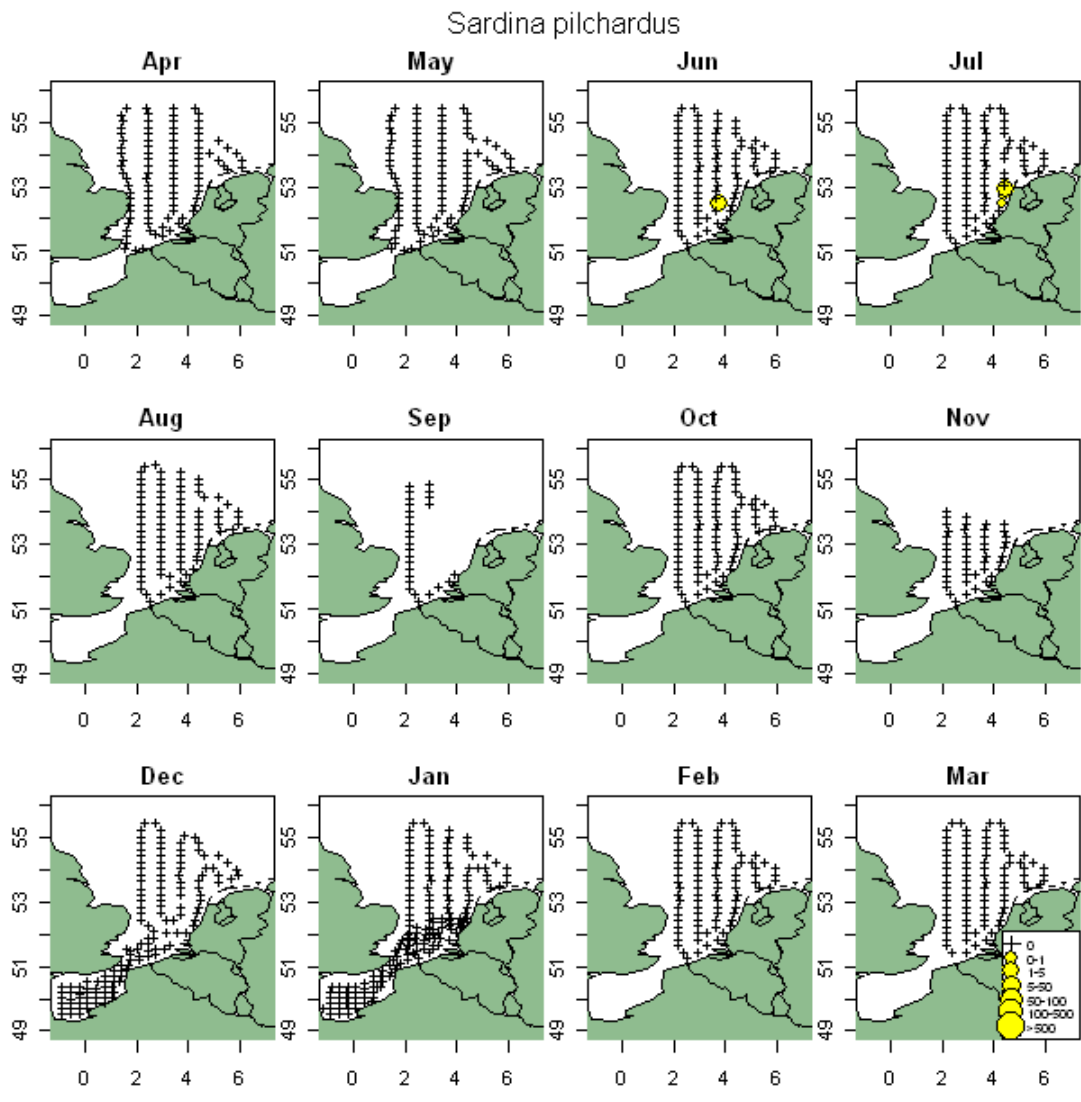


Figure 3e. Spatial and temporal distribution of stage 5 pilchard eggs.

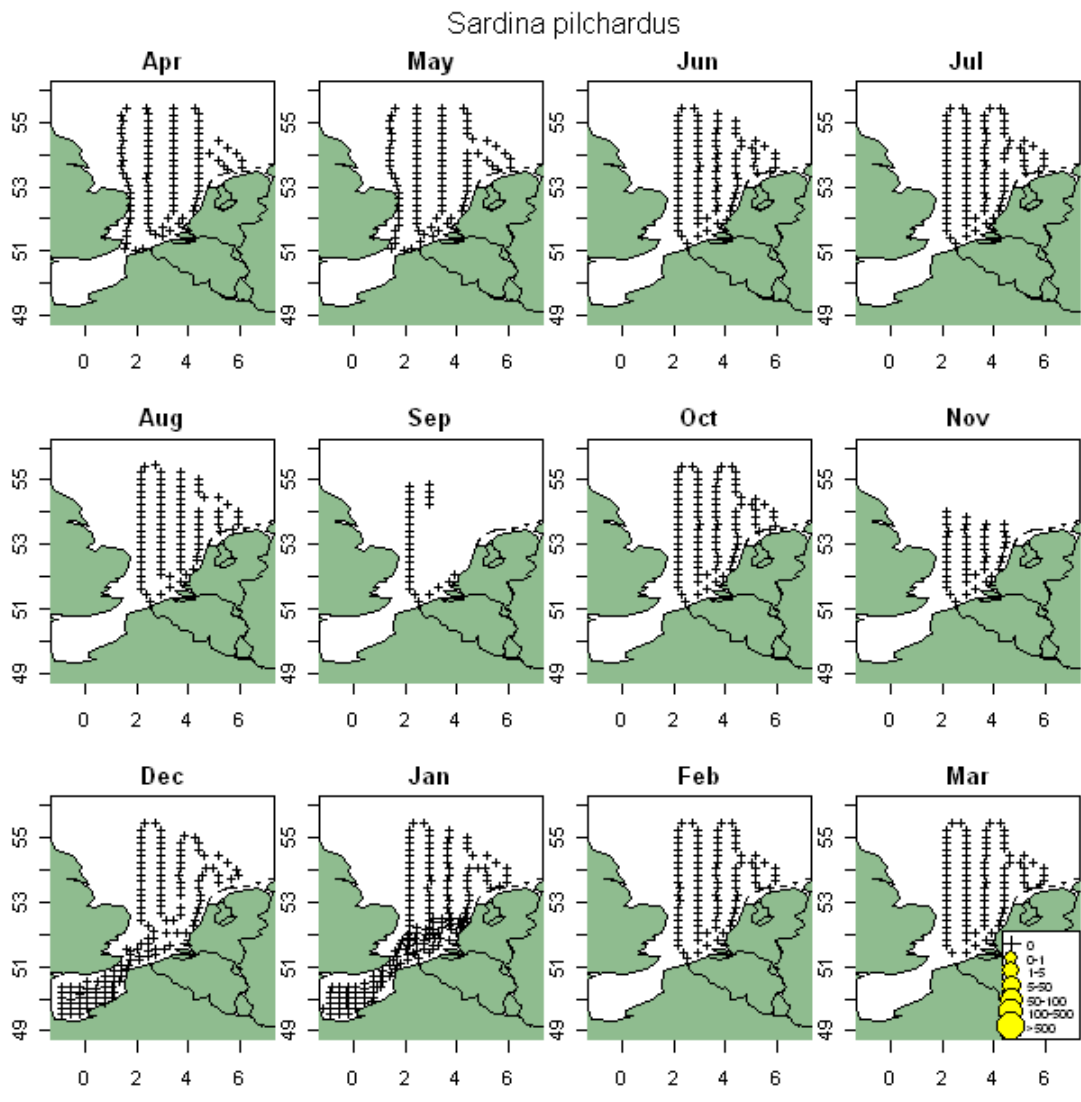


Figure 3f. Spatial and temporal distribution of yolk sac pilchard larvae.

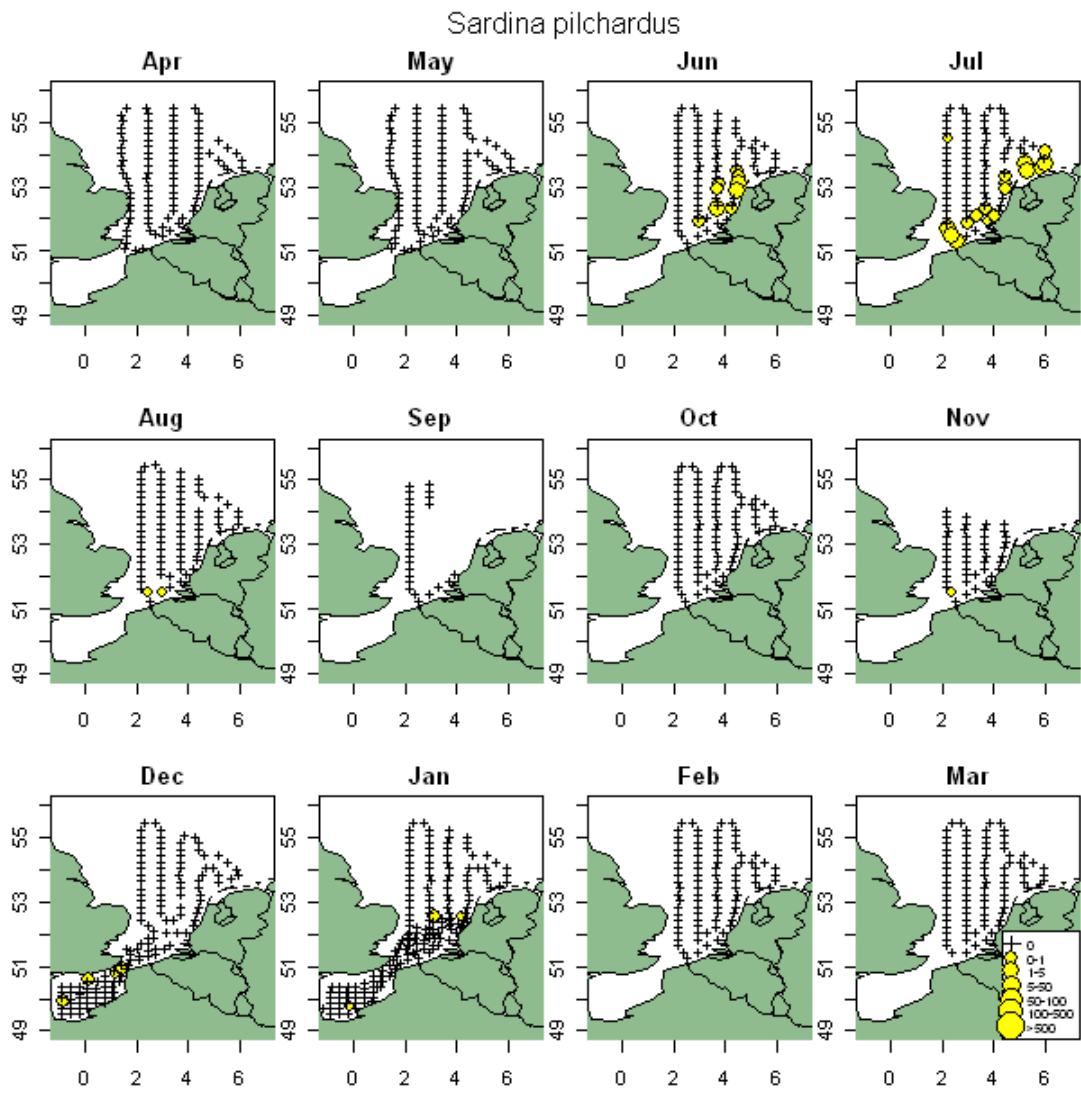


Figure 3g. Spatial and temporal distribution of non-yolk sac pilchard larvae.



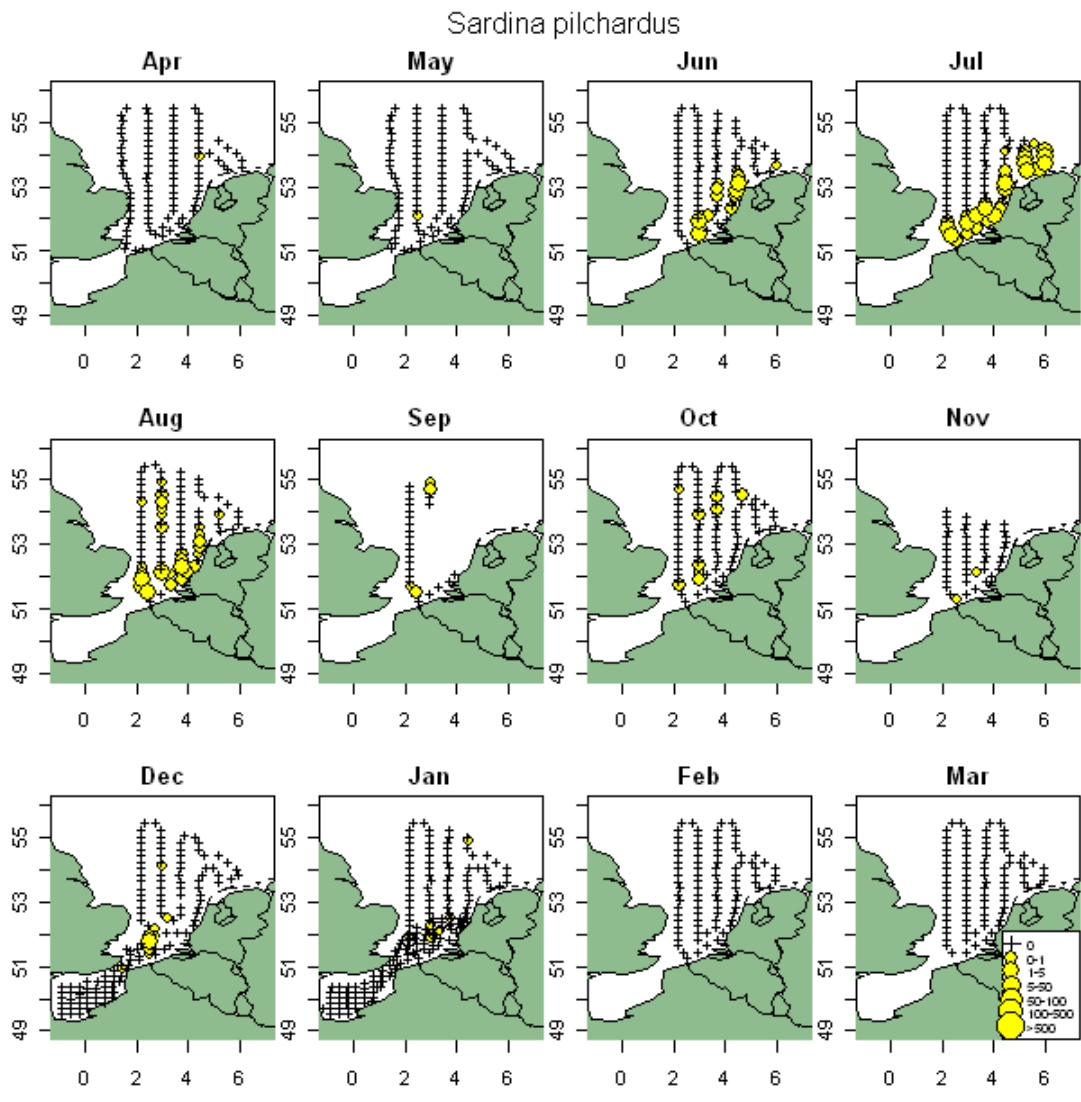


Figure 3h. Spatial and temporal distribution of bent notochord stage pilchard larvae.

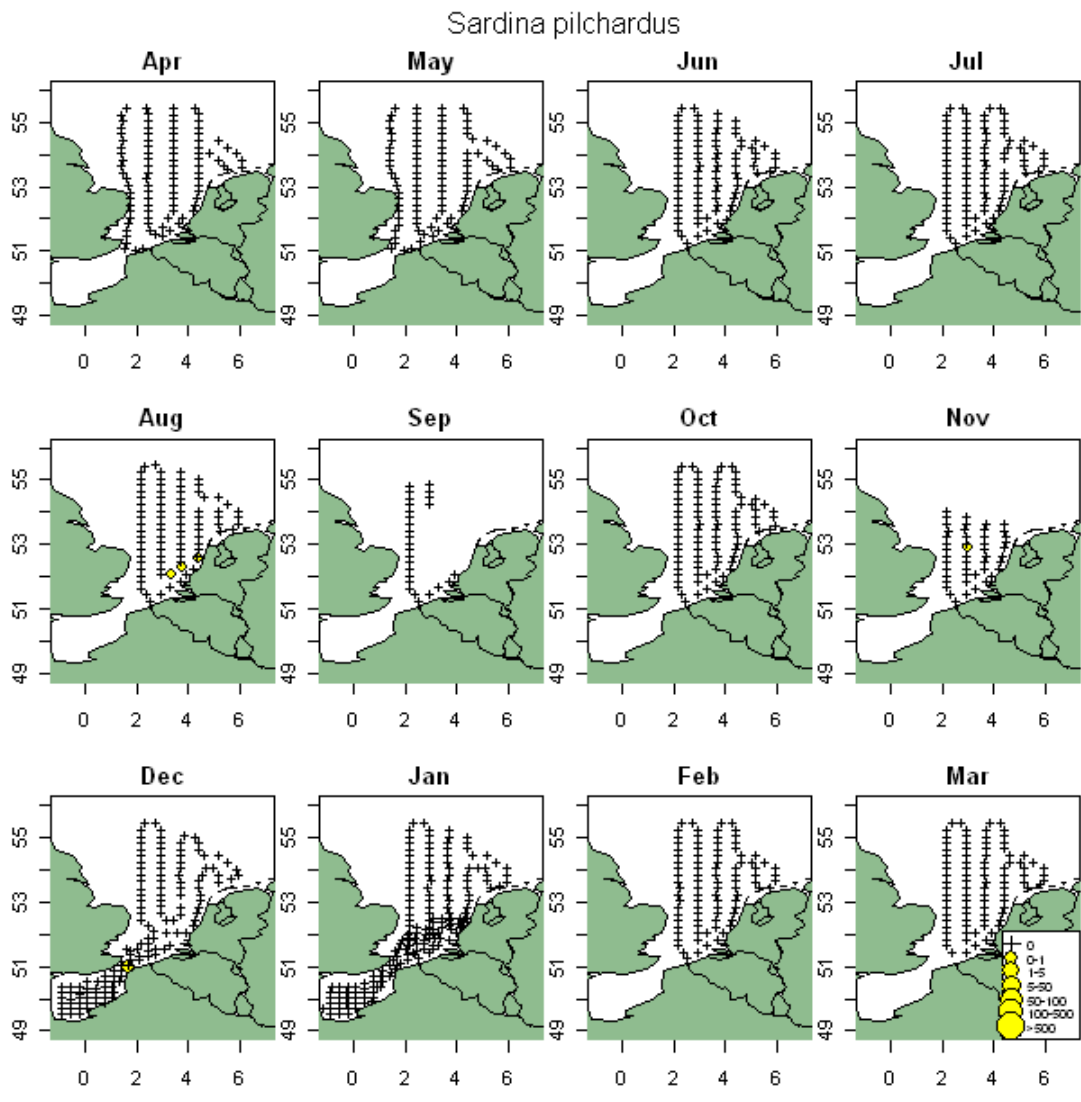


Figure 3i. Spatial and temporal distribution of metamorphosing pilchard larvae.

**Anchovy *Engraulis encrasicolus***

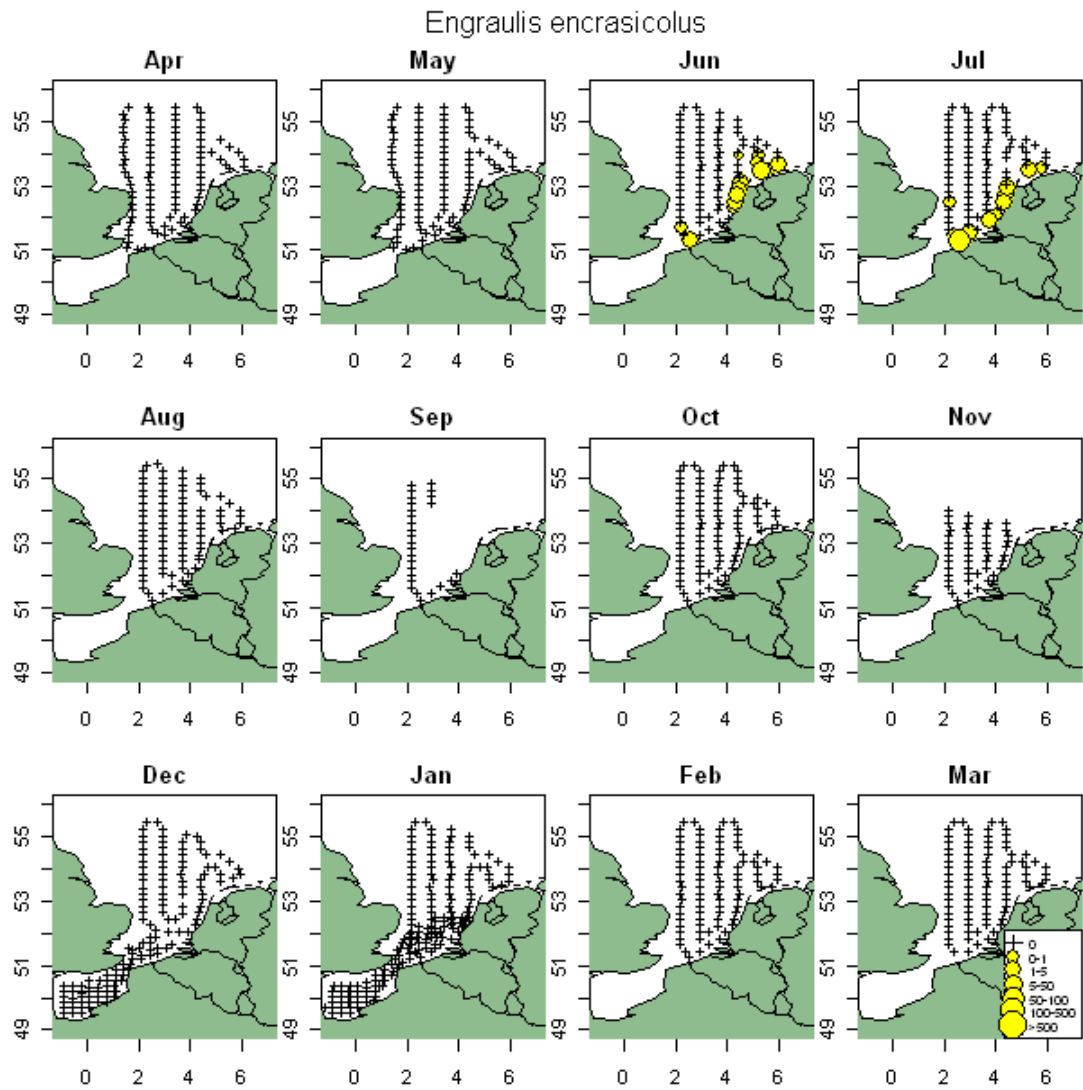


Figure 4a. Spatial and temporal distribution of anchovy eggs.

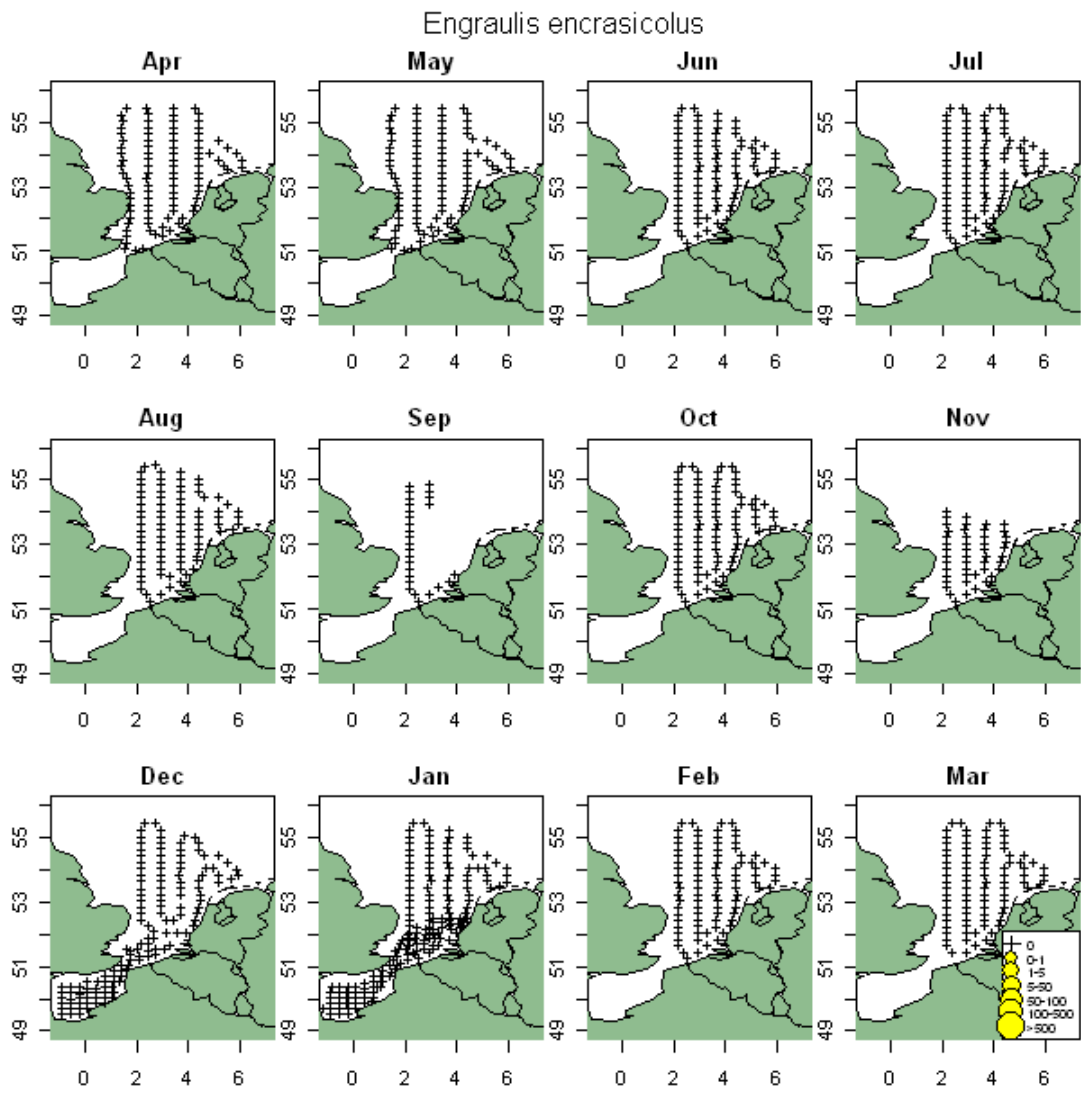


Figure 4b. Spatial and temporal distribution of yolk sac anchovy larvae.

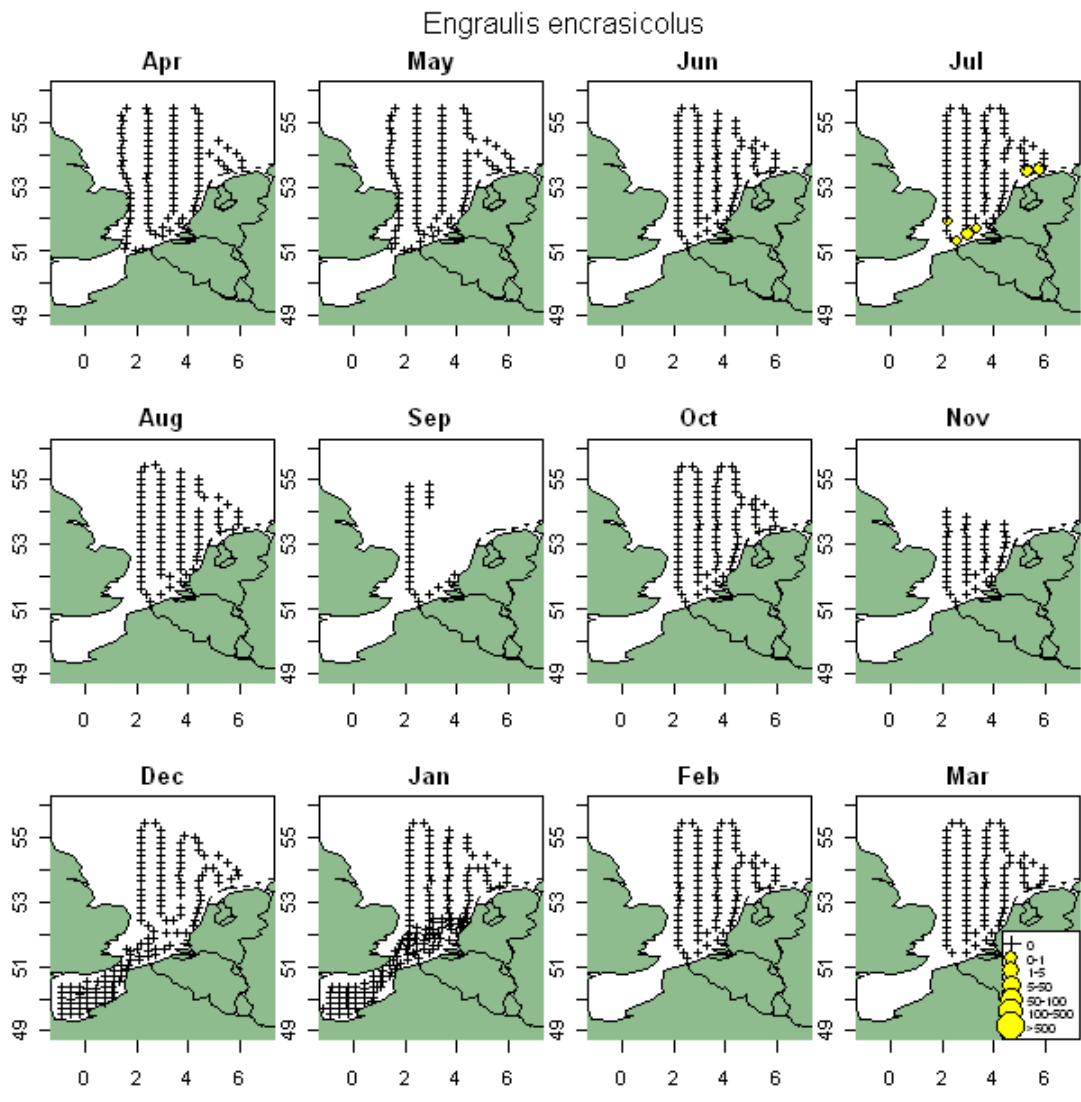


Figure 4c. Spatial and temporal distribution of non-yolk sac anchovy larvae.

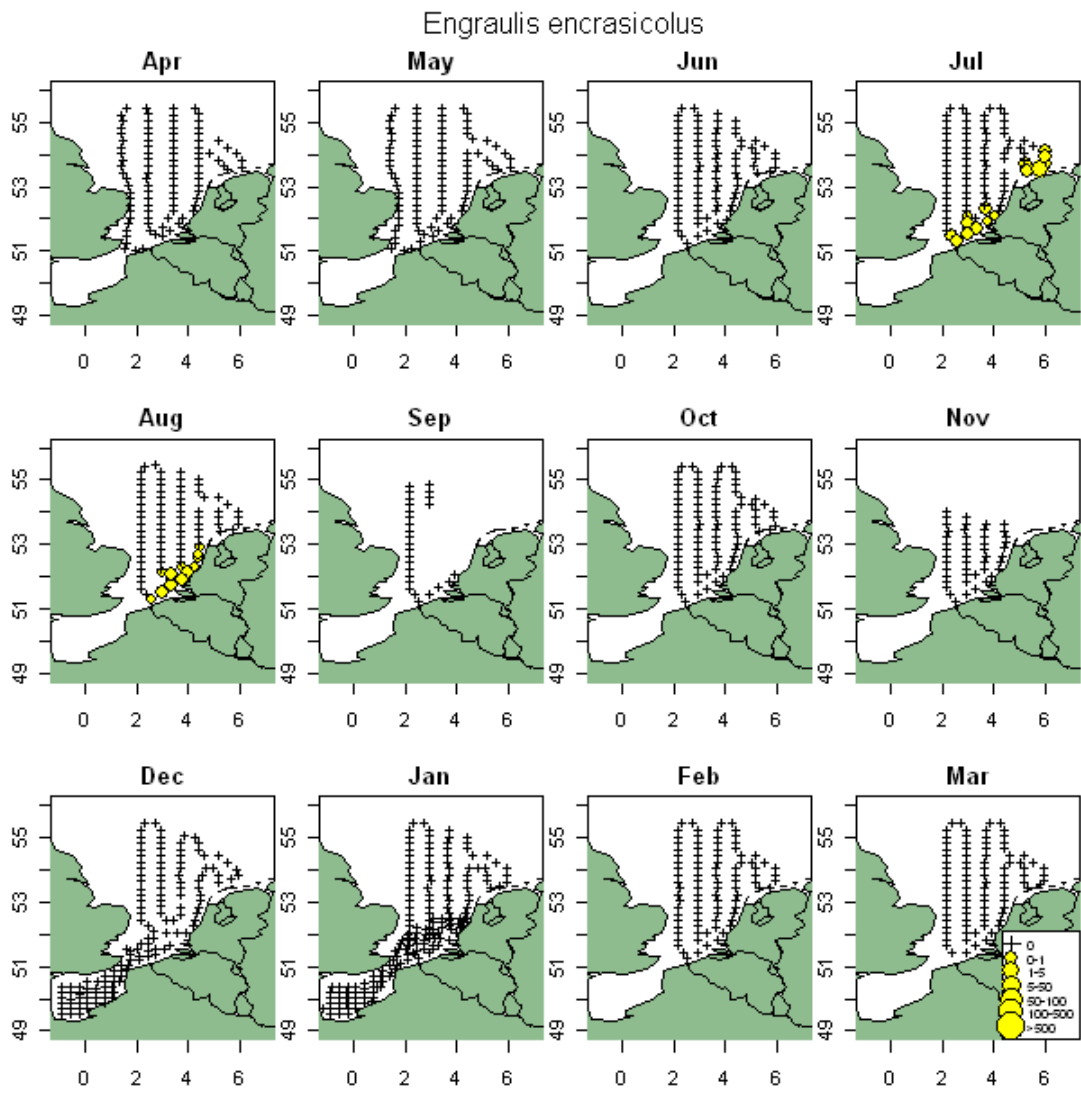


Figure 4d. Spatial and temporal distribution of bent notochord stage anchovy larvae.

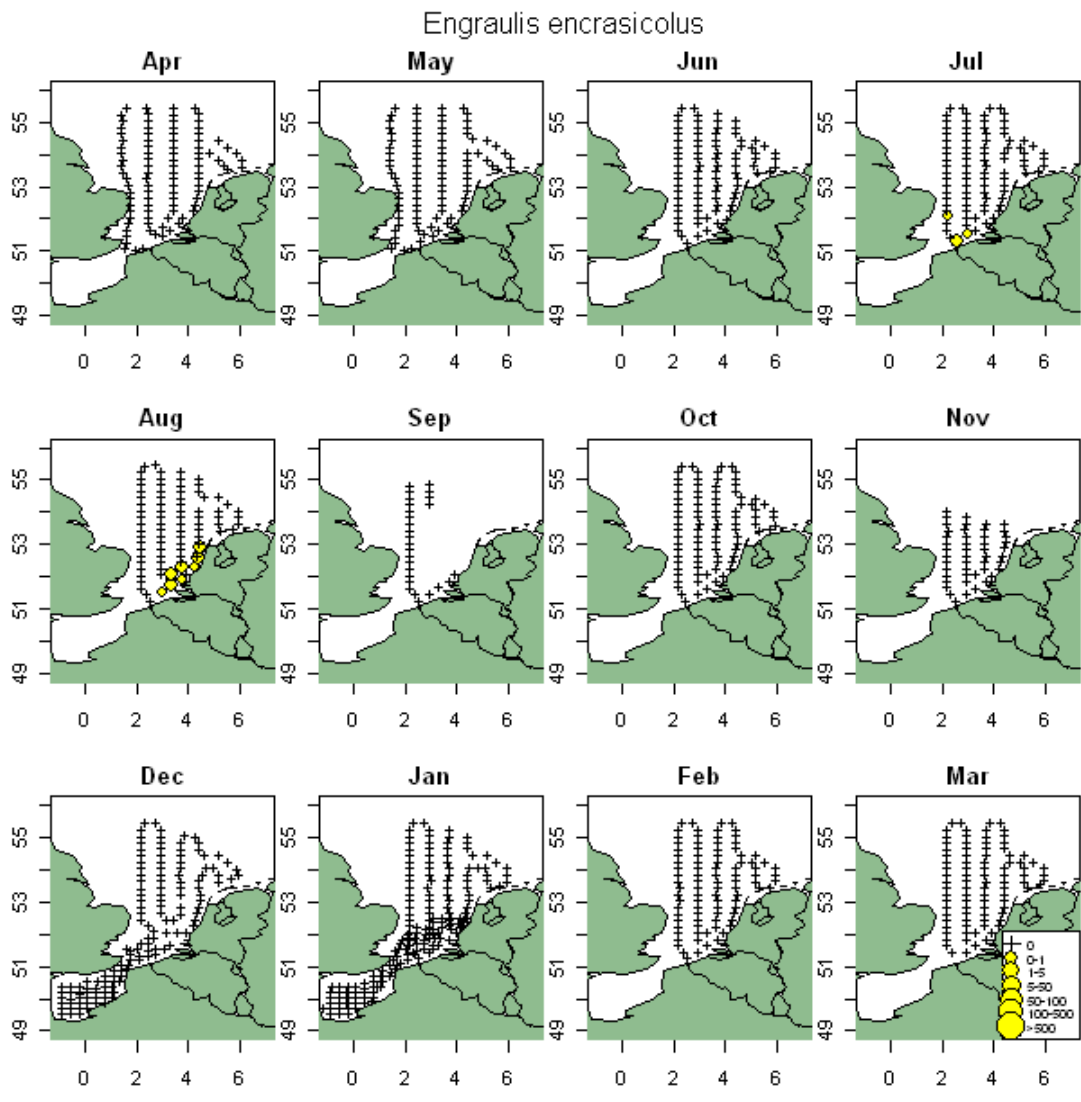


Figure 4e. Spatial and temporal distribution of metamorphosing anchovy larvae.

**Nillson's pipefish *Syngnathus rostellatus***

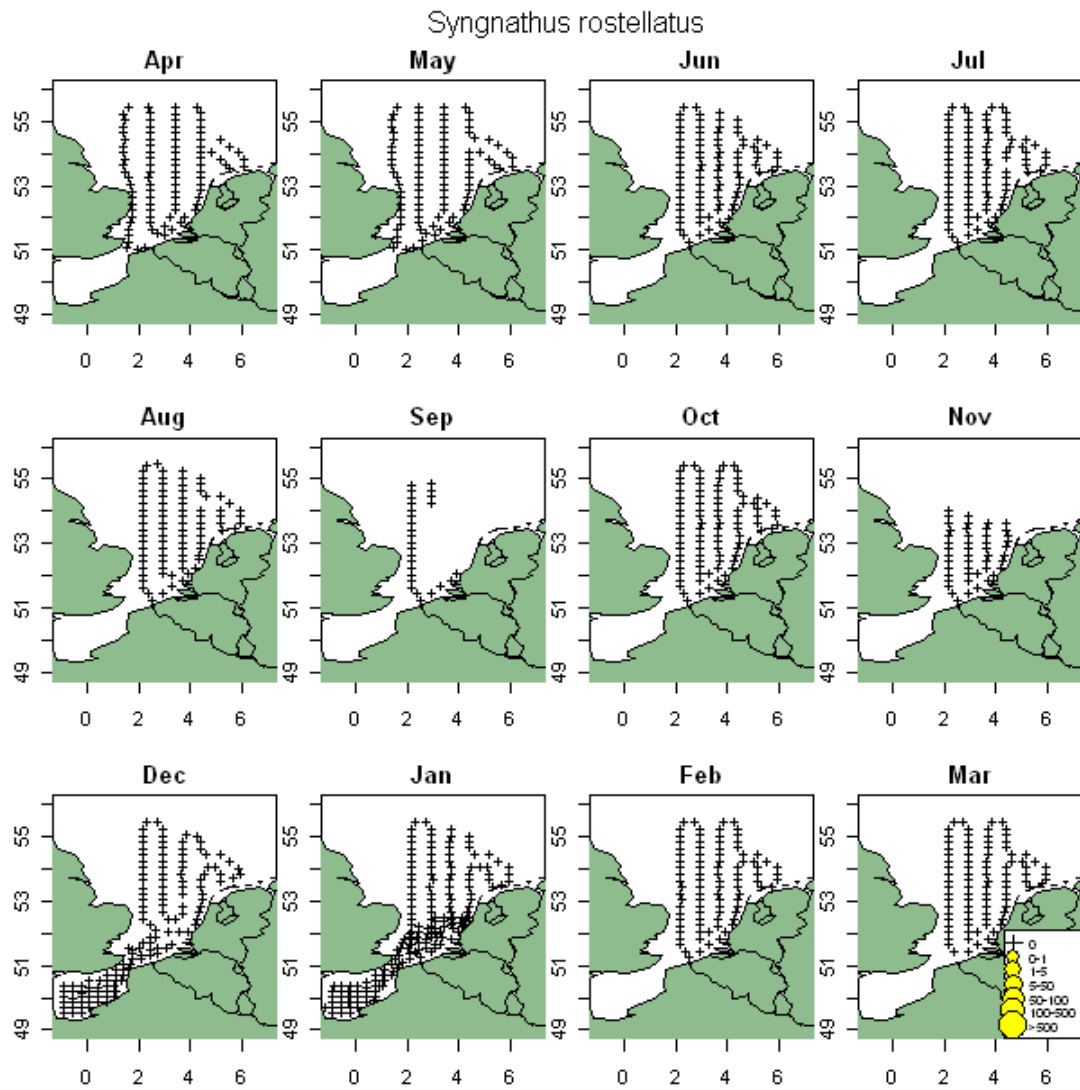


Figure 5a. Spatial and temporal distribution of yolk sac Nillson's pipefish larvae.



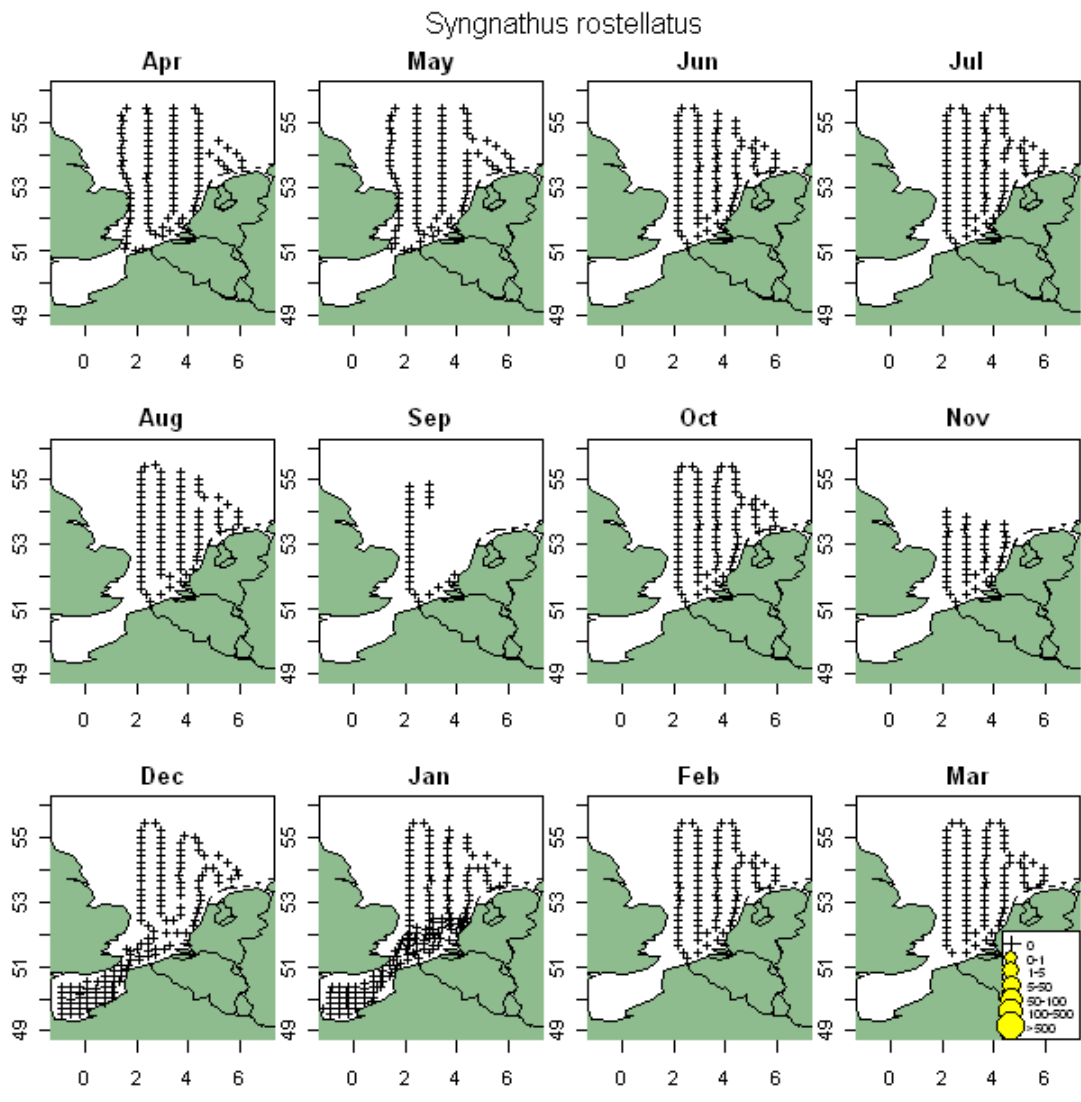


Figure 5b. Spatial and temporal distribution of non-yolk sac Nillson's pipefish larvae.

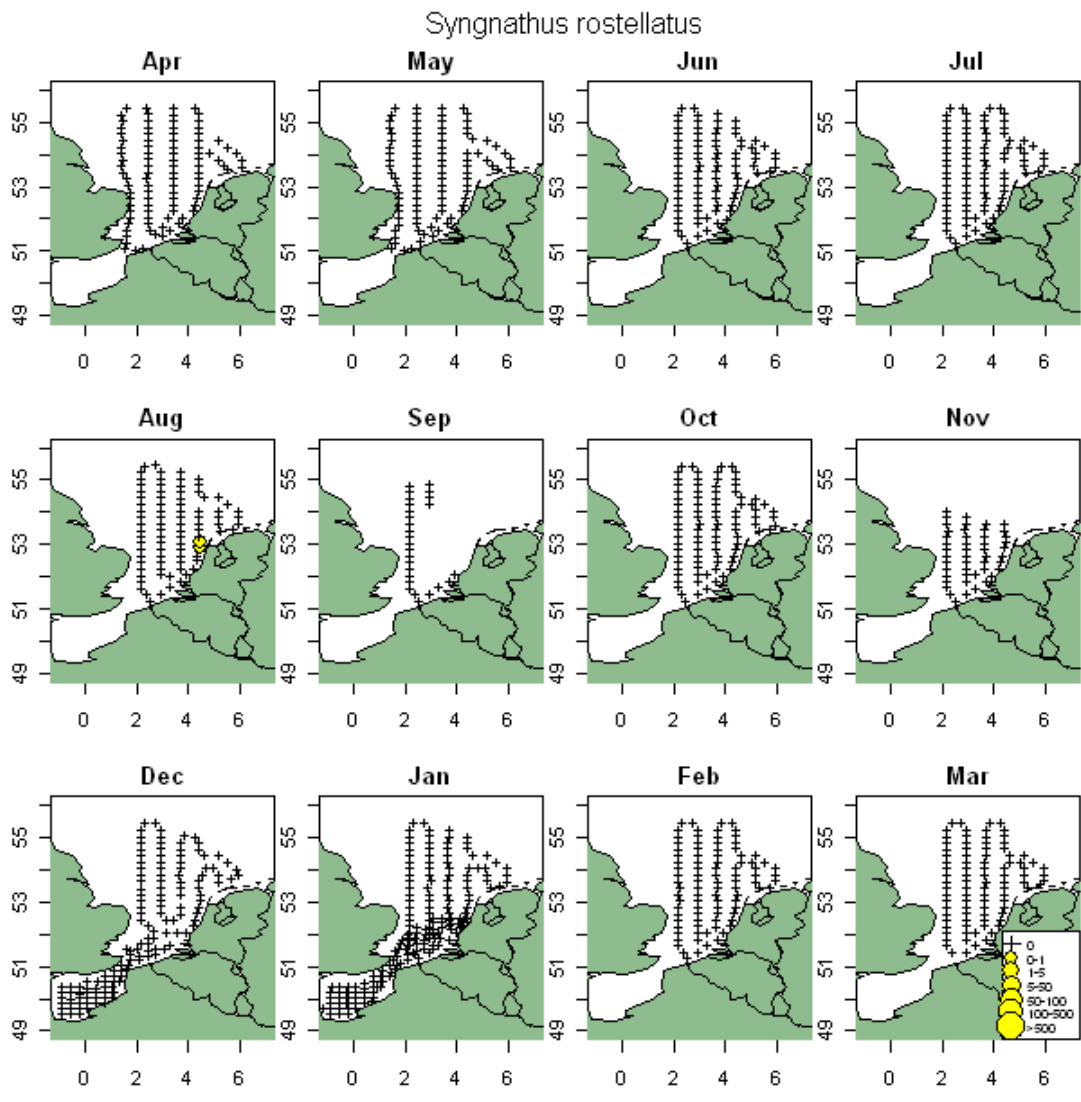


Figure 5c. Spatial and temporal distribution of bent notochord stage Nillson's pipefish larvae.

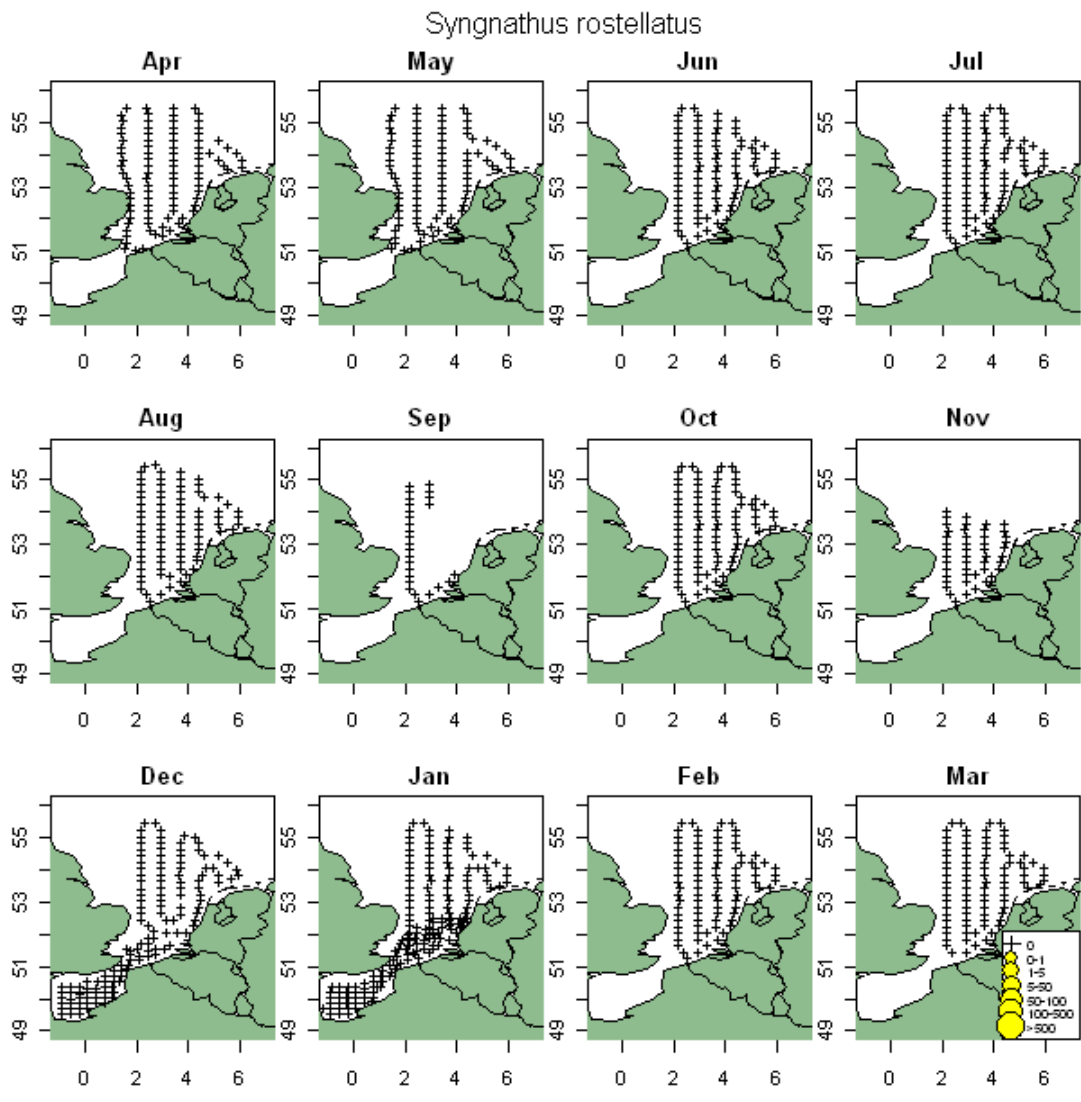


Figure 5d. Spatial and temporal distribution of metamorphosing Nillson's pipefish larvae.

**Hake *Merluccius merluccius***

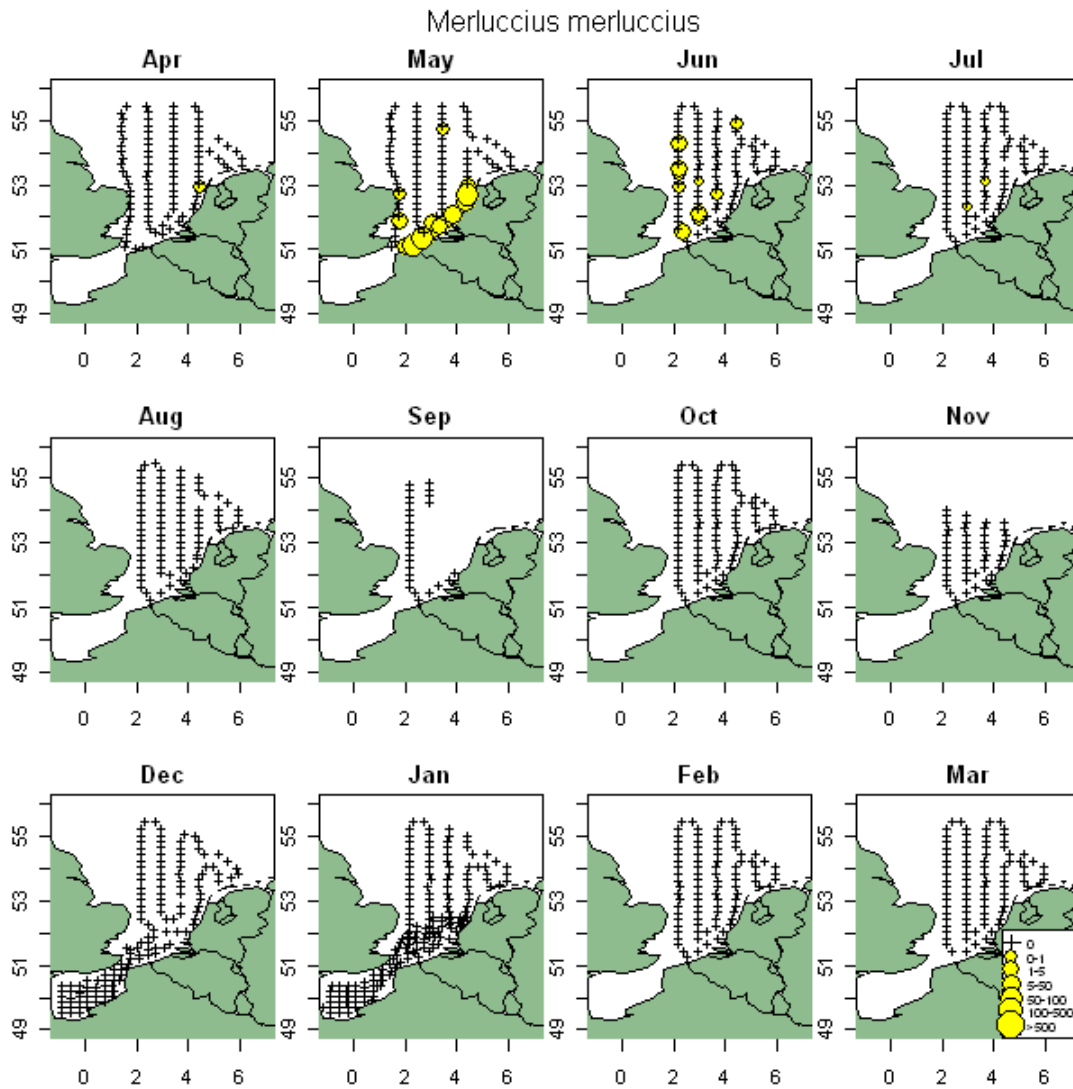


Figure 6a. Spatial and temporal distribution of stage 1 hake eggs.

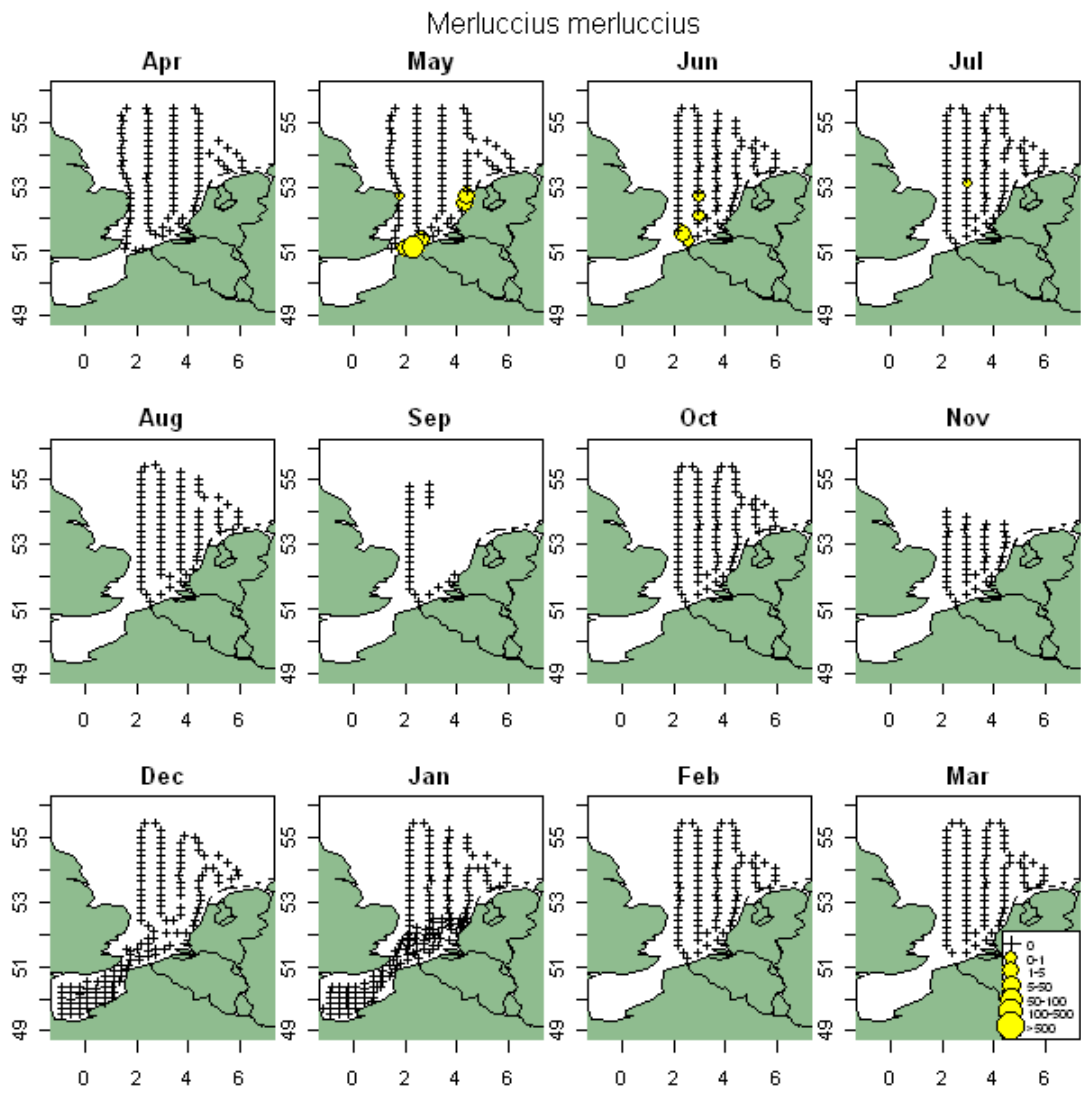


Figure 6b. Spatial and temporal distribution of stage 2 hake eggs.

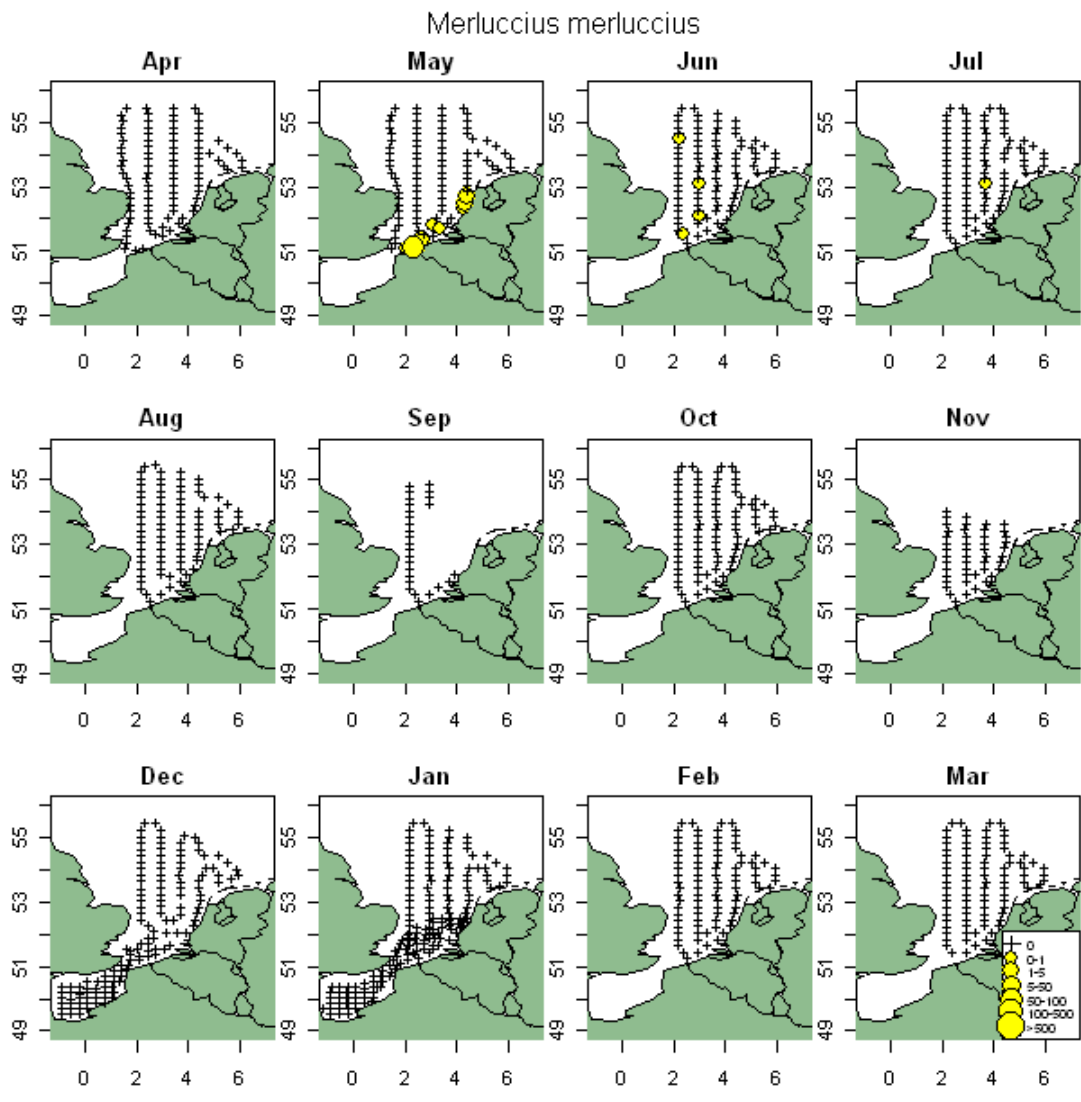


Figure 6c. Spatial and temporal distribution of stage 3 hake eggs.

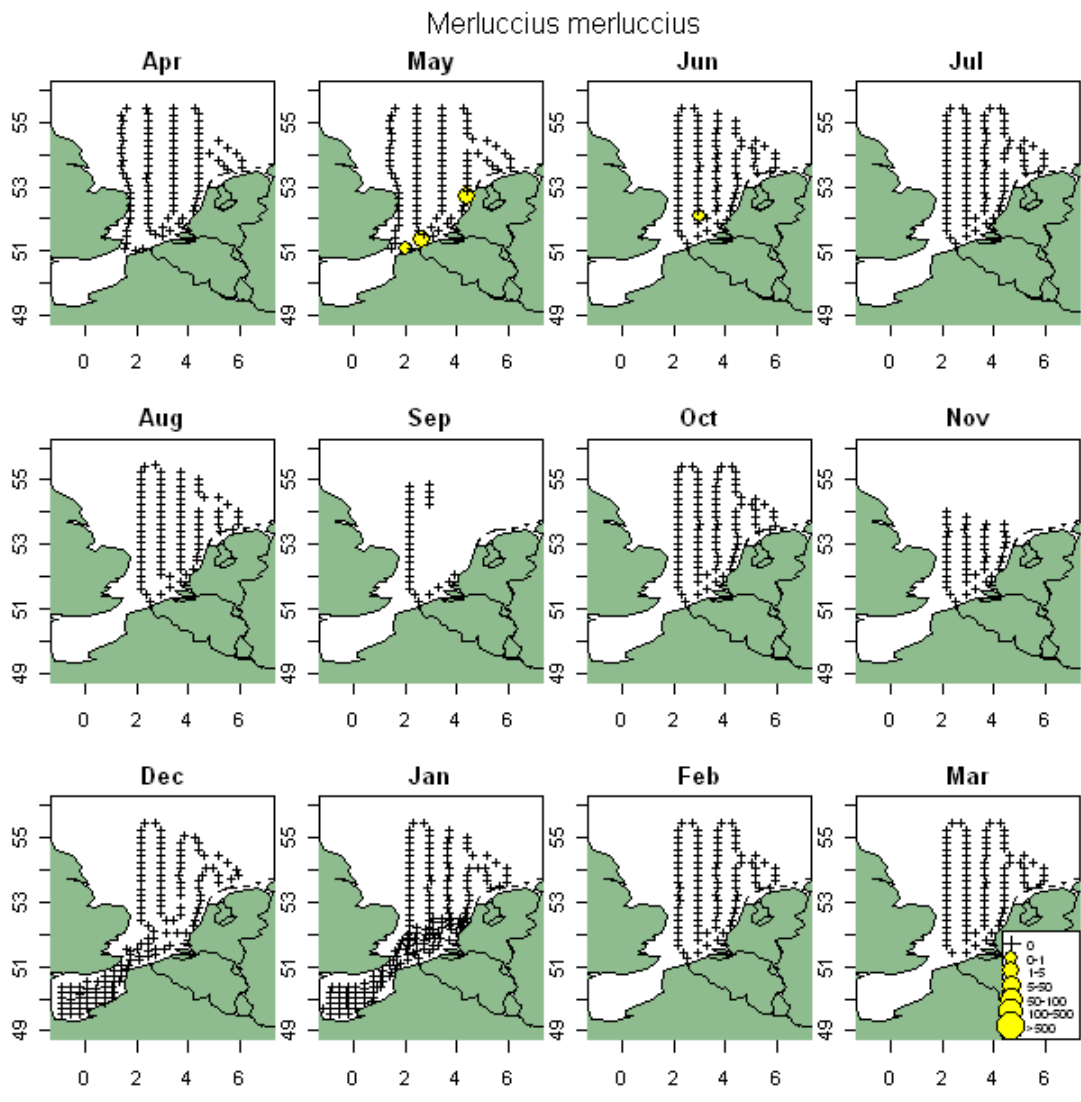


Figure 6d. Spatial and temporal distribution of stage 4 hake eggs.

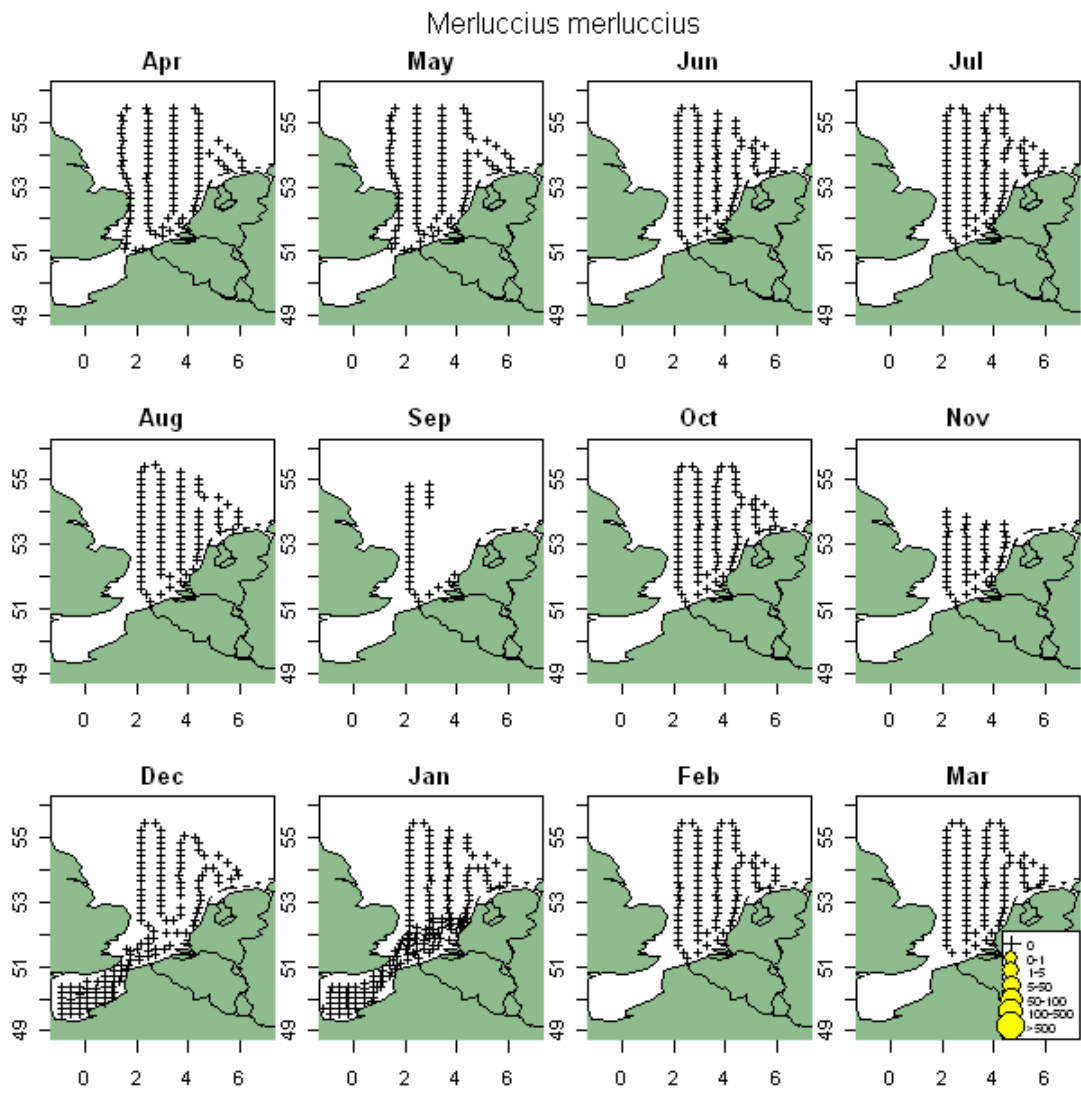


Figure 6e. Spatial and temporal distribution of stage 5 hake eggs.



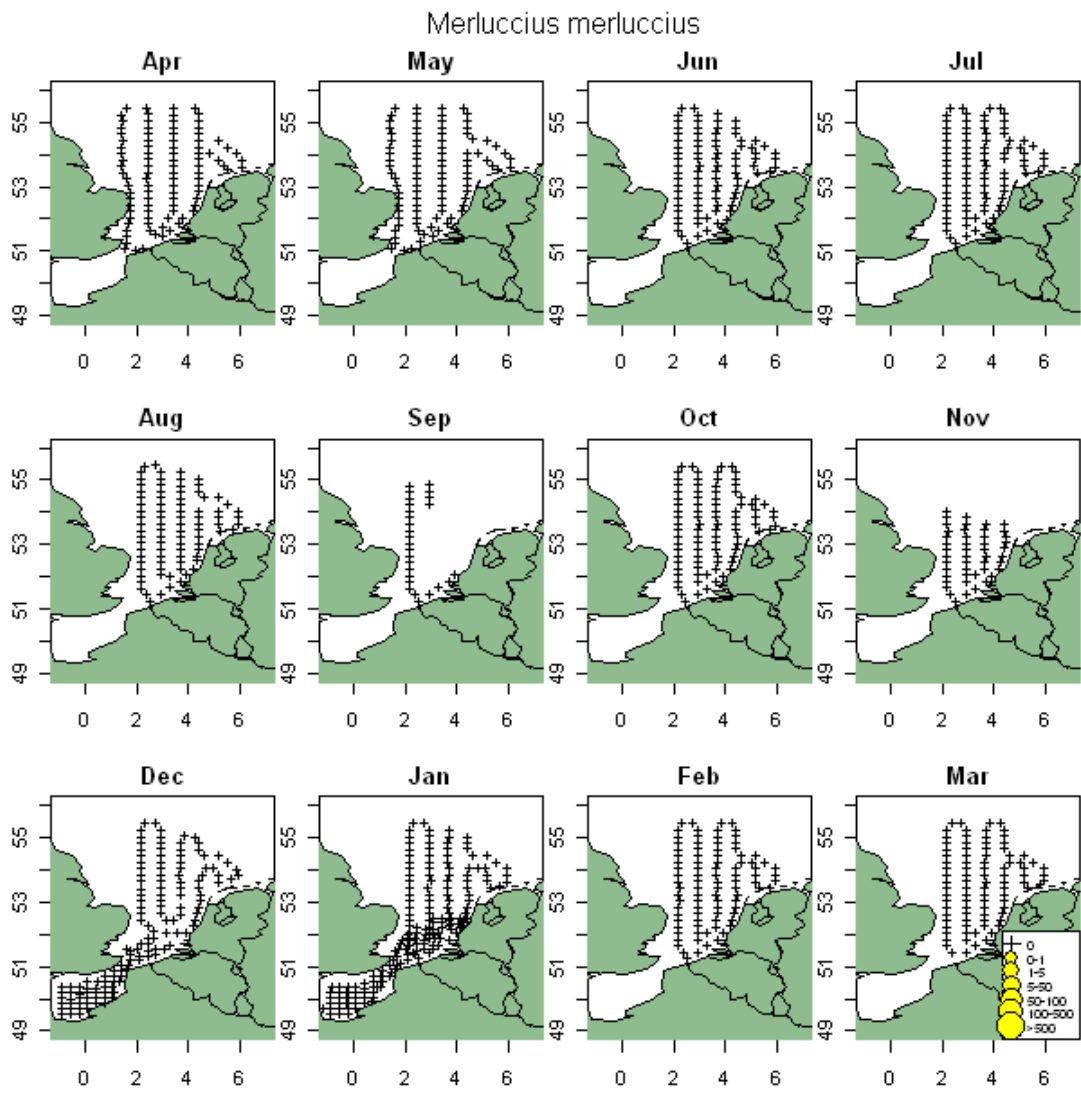


Figure 6f. Spatial and temporal distribution of yolk sac hake larvae.

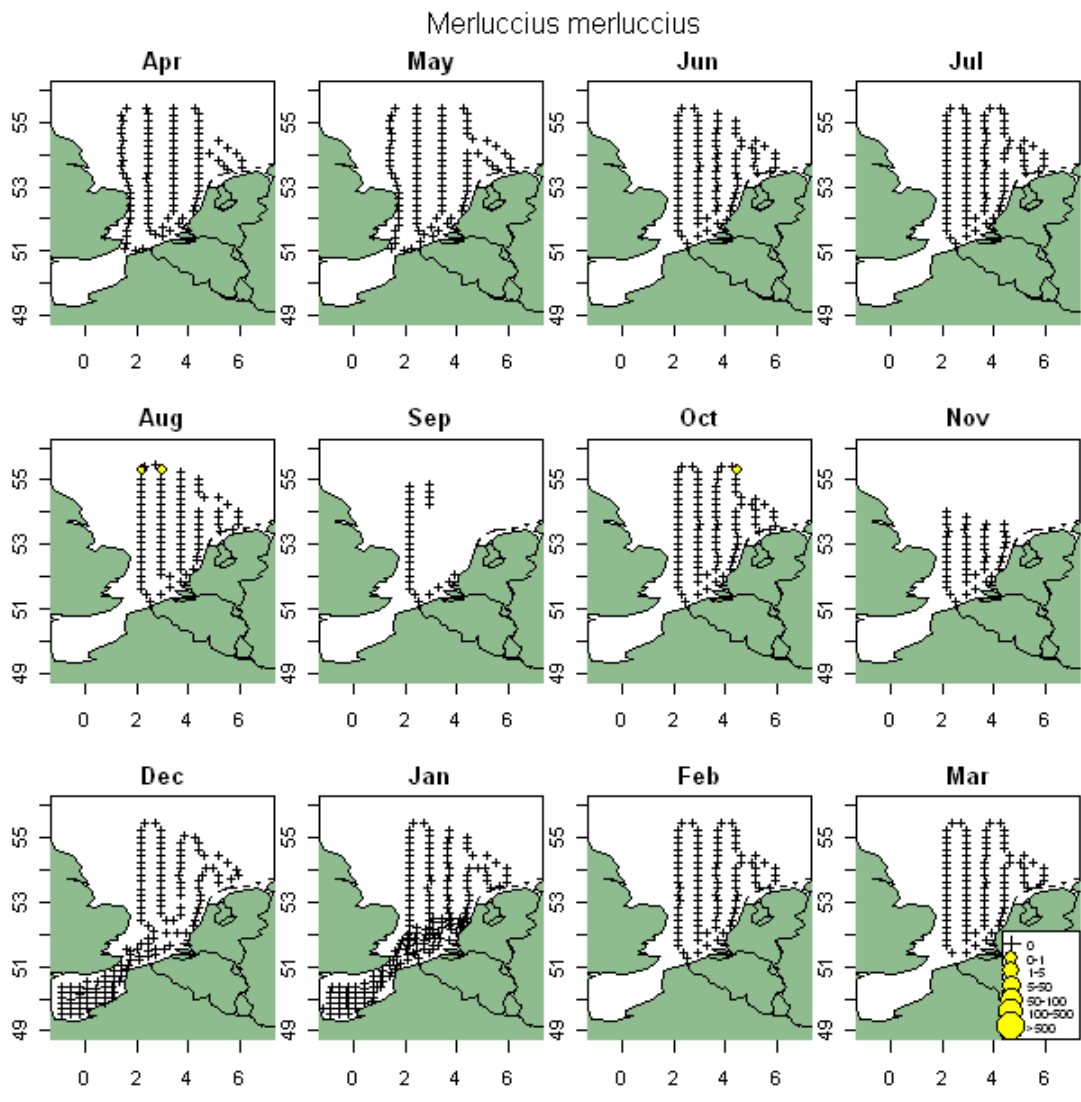


Figure 6g. Spatial and temporal distribution of non-yolk sac hake larvae.

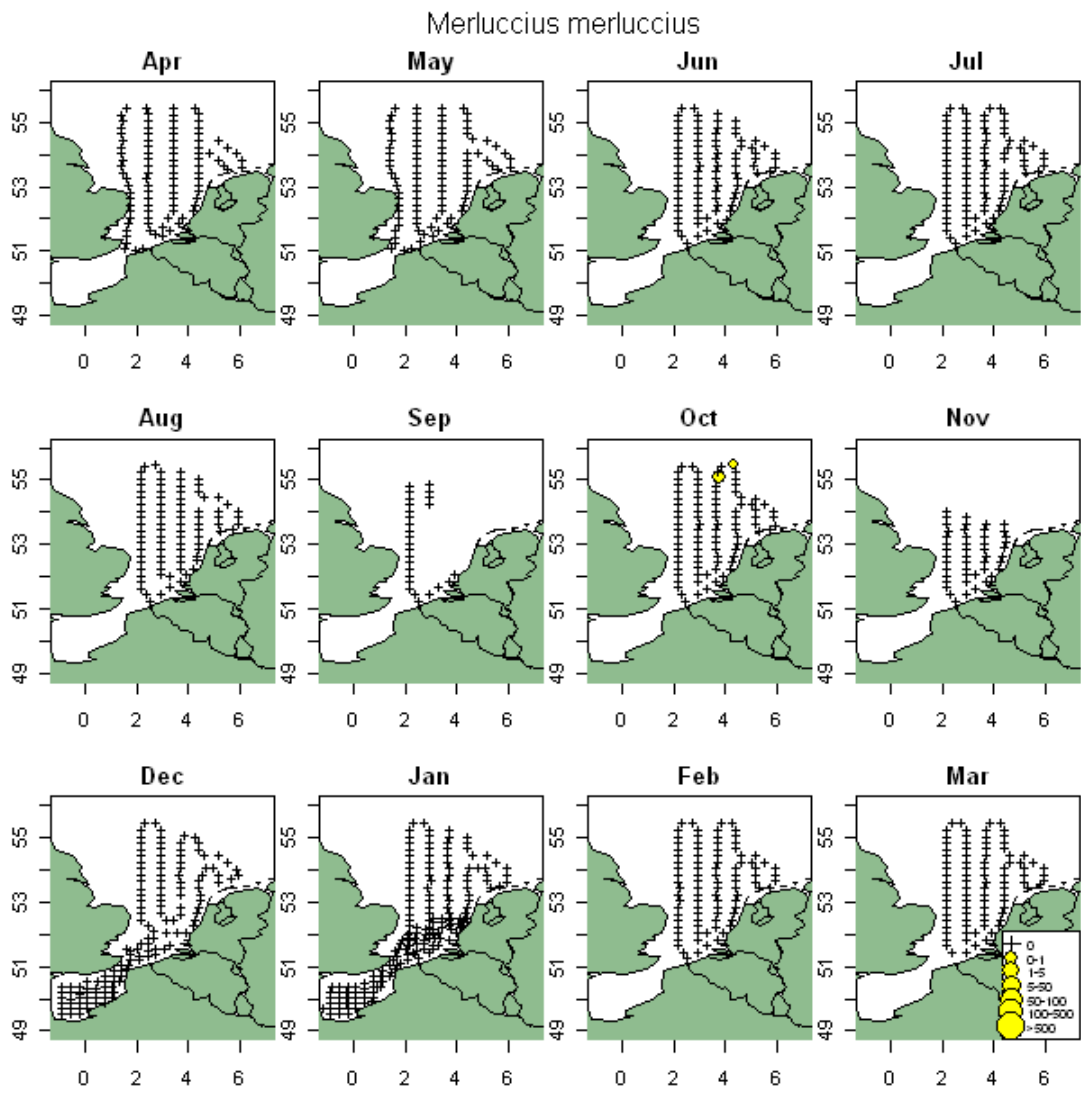


Figure 6h. Spatial and temporal distribution of bent notochord stage hake larvae.

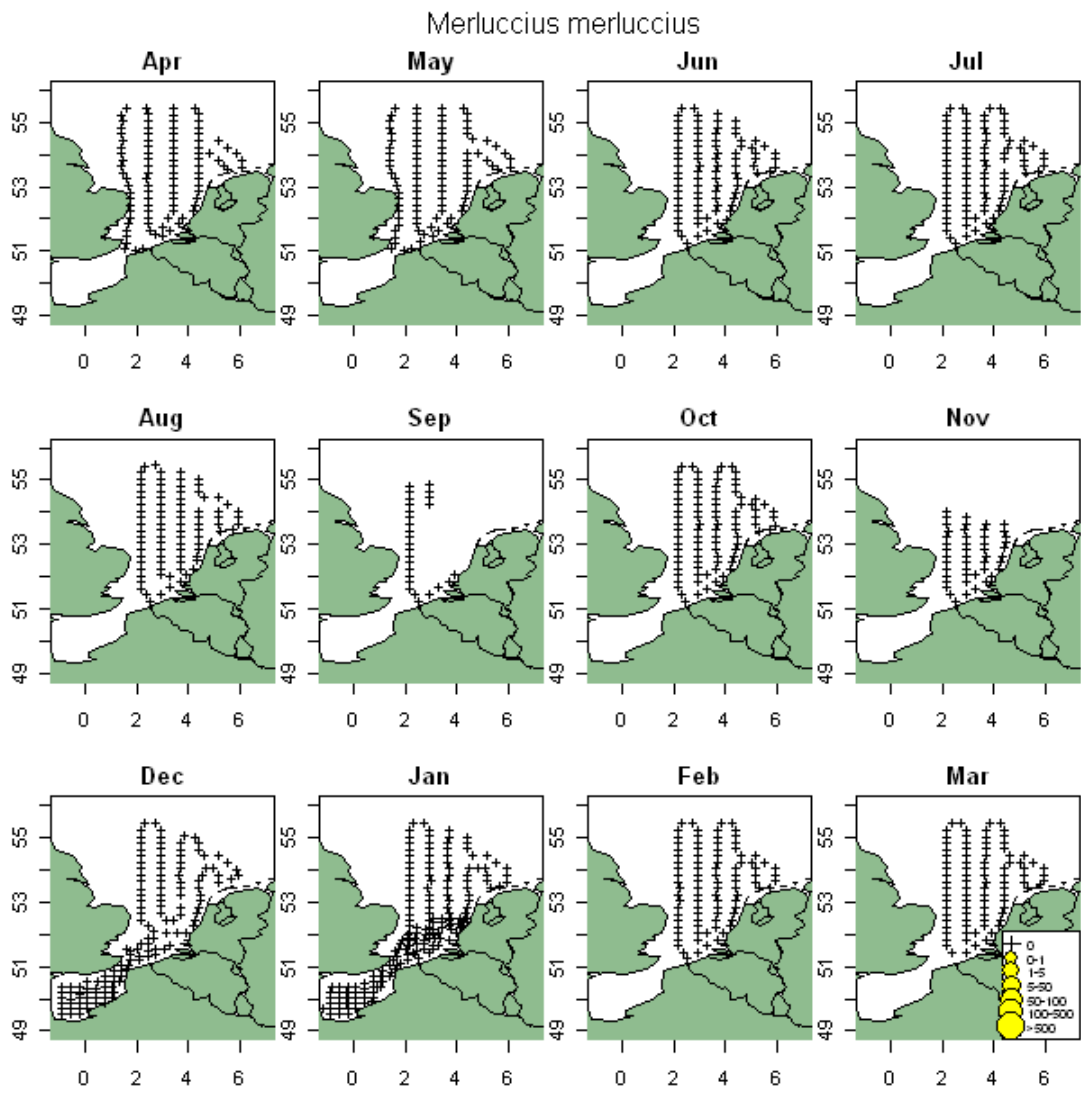


Figure 6i. Spatial and temporal distribution of metamorphosing hake larvae.

## Cod like

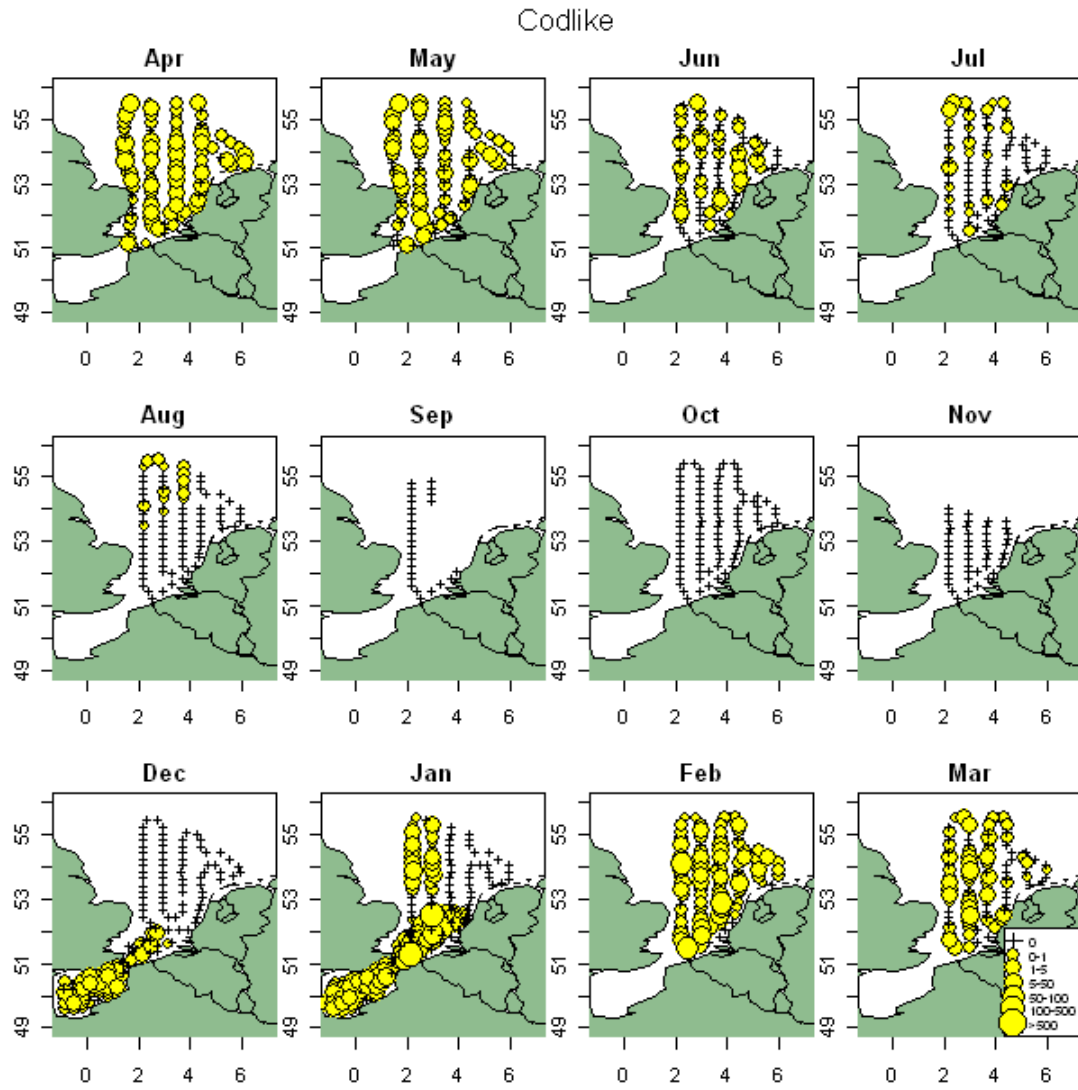


Figure 7a. Spatial and temporal distribution of stage 1 Cod like eggs.

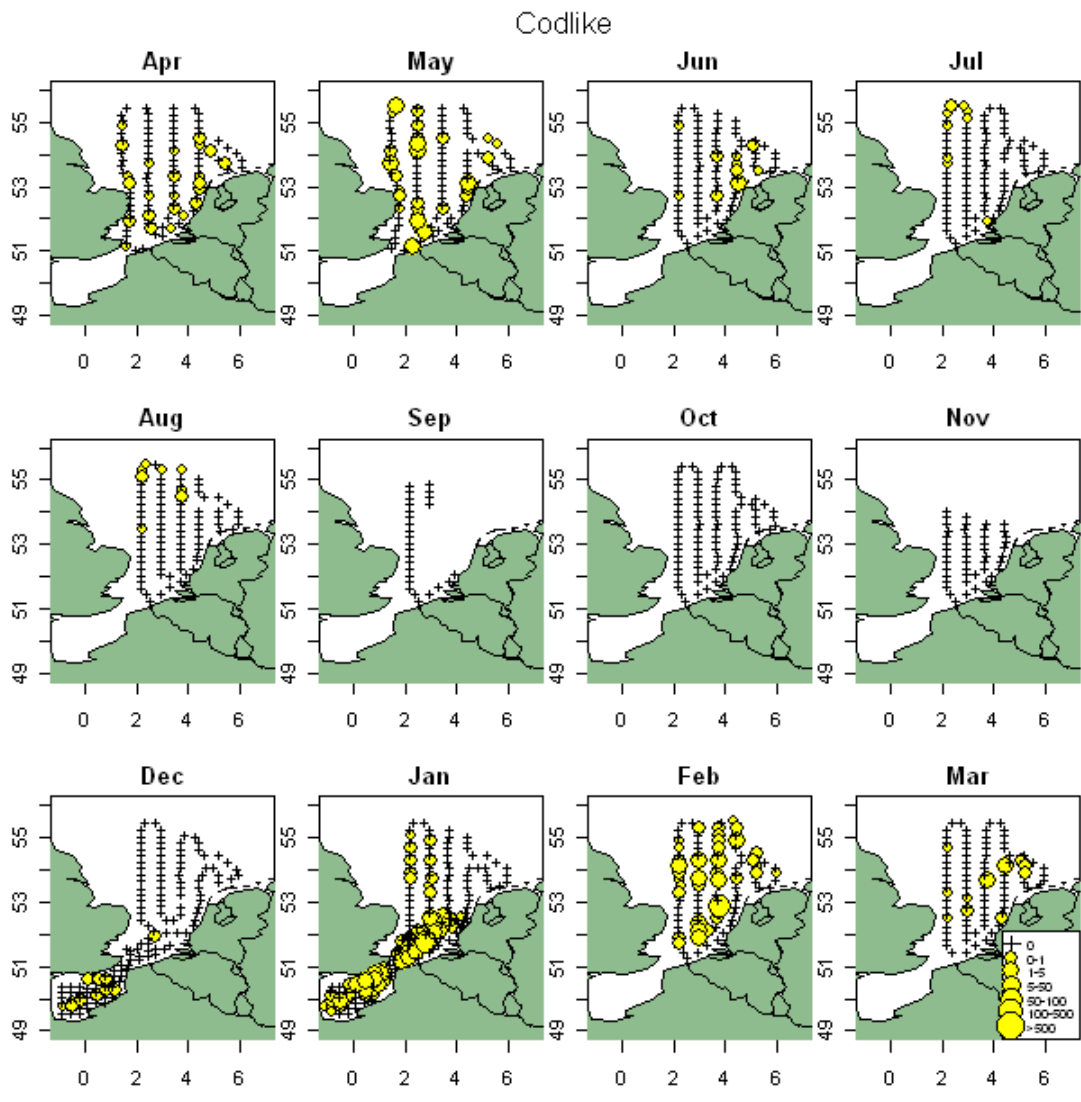


Figure 7b. Spatial and temporal distribution of stage 2 Cod like eggs.

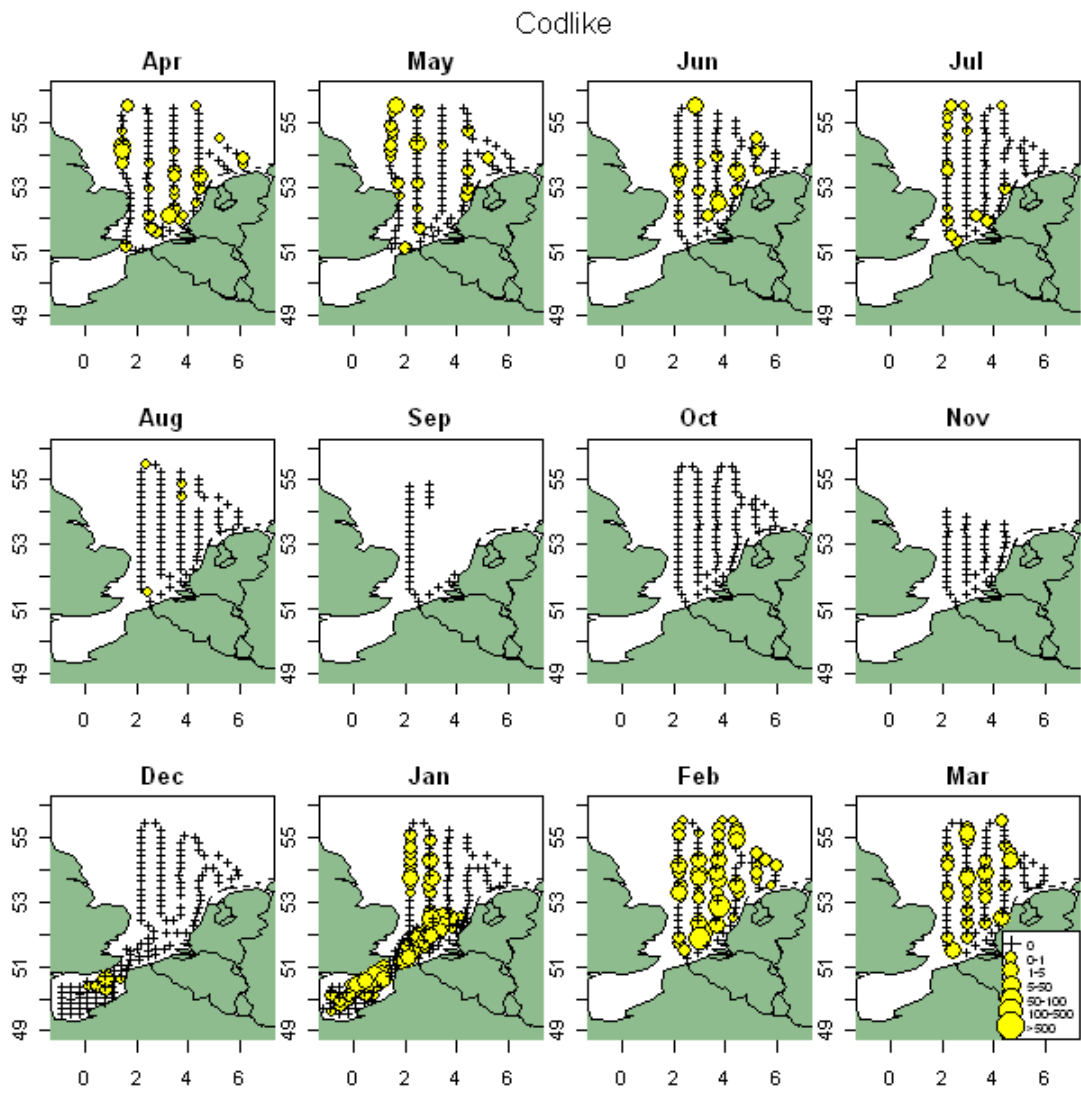


Figure 7c. Spatial and temporal distribution of stage 3 Cod like eggs.

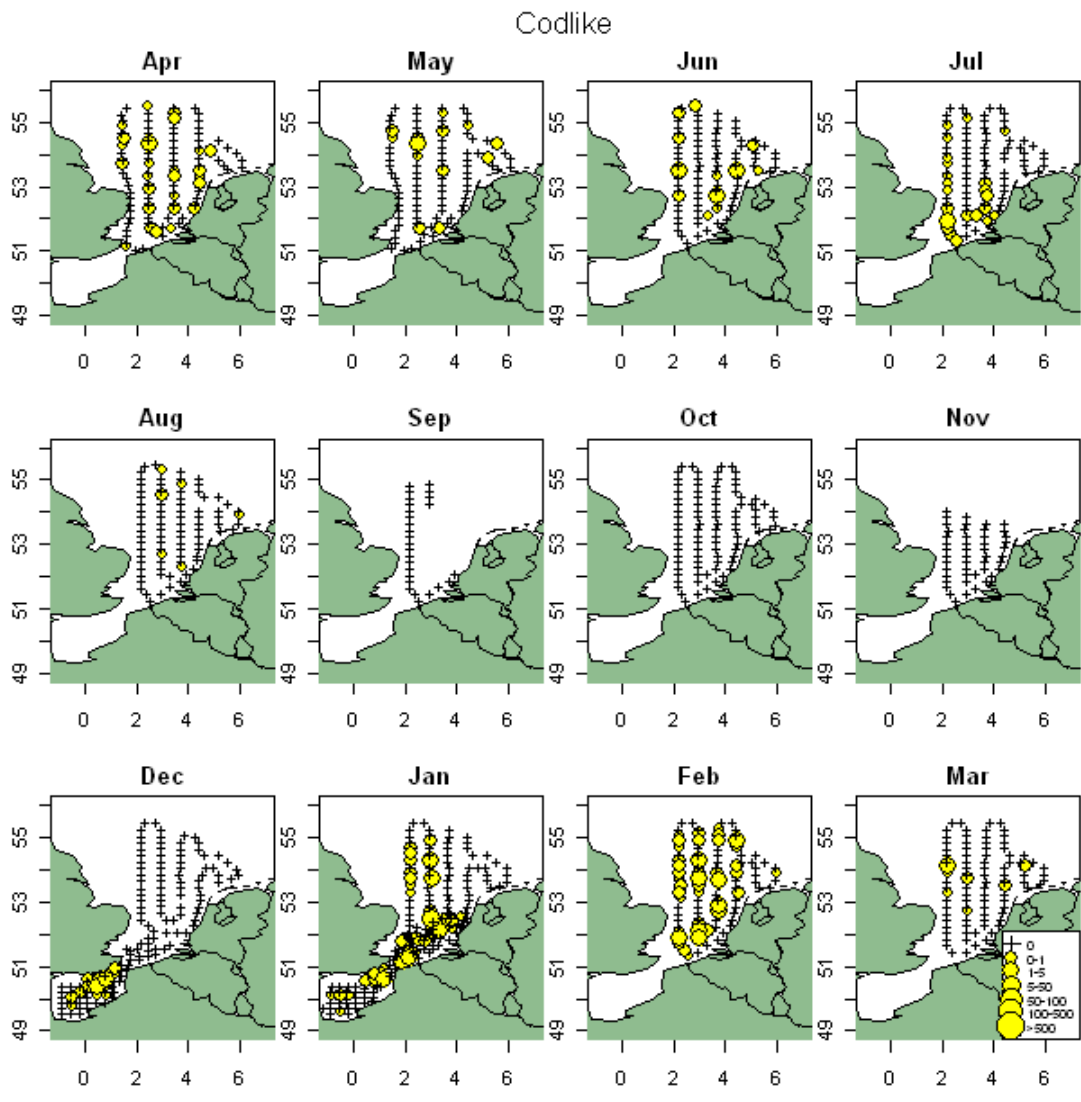


Figure 7d. Spatial and temporal distribution of stage 4 Cod like eggs.



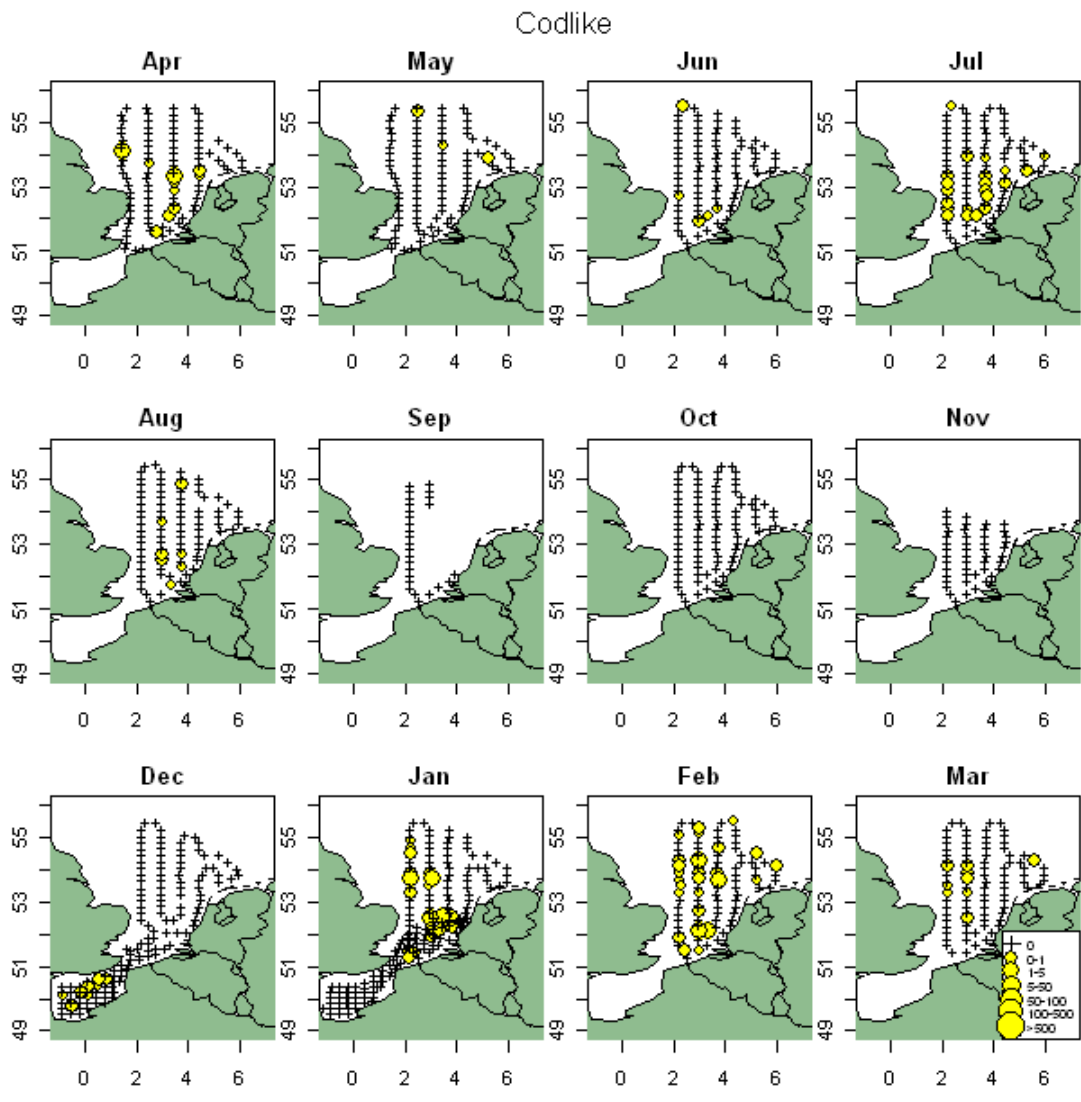


Figure 7e. Spatial and temporal distribution of stage 5 Cod like eggs.

**Cod *Gadus morhua***

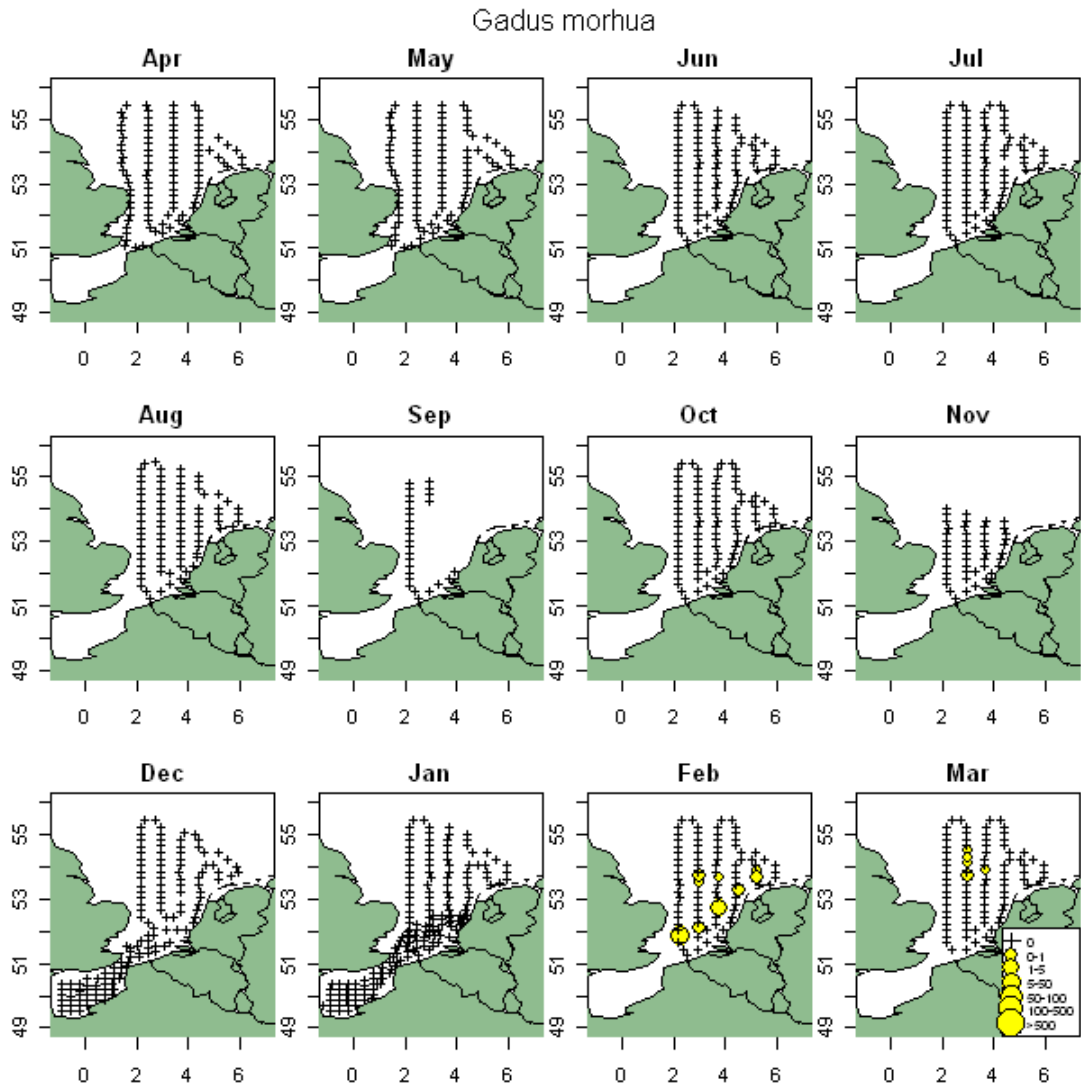


Figure 8a. Spatial and temporal distribution of yolk sac cod larvae.

Gadus morhua

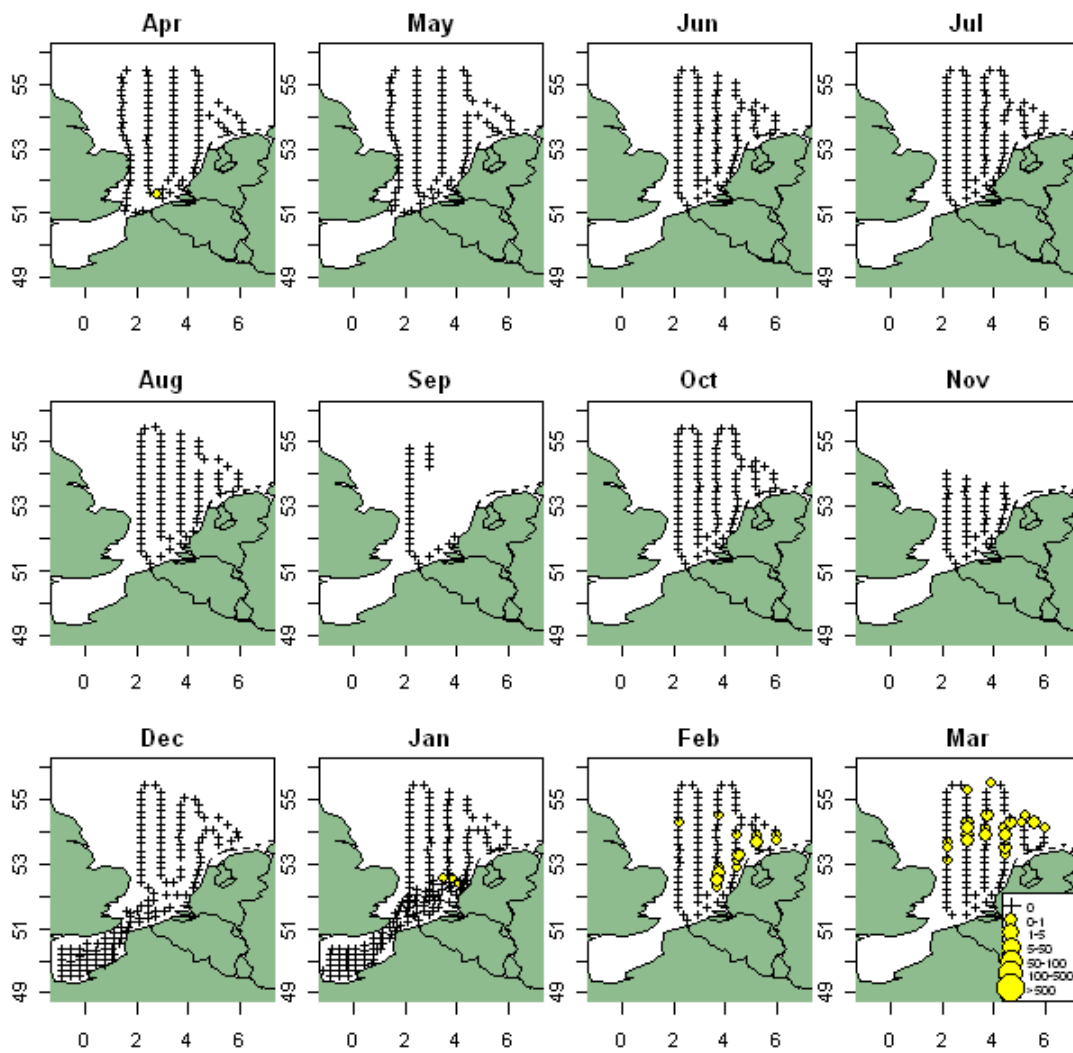


Figure 8b. Spatial and temporal distribution of non-yolk sac cod larvae.

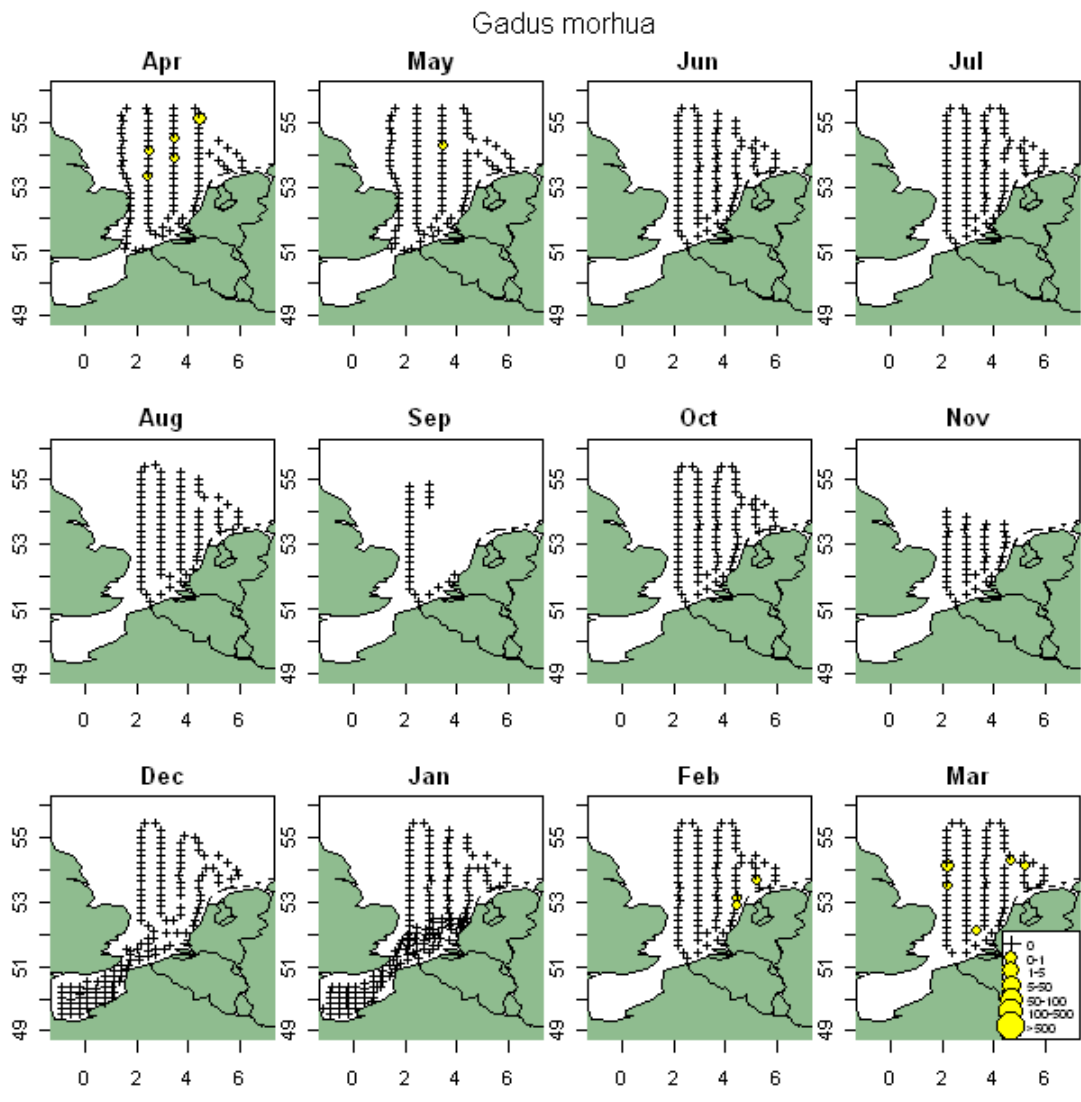


Figure 8c. Spatial and temporal distribution of bent notochord stage cod larvae.

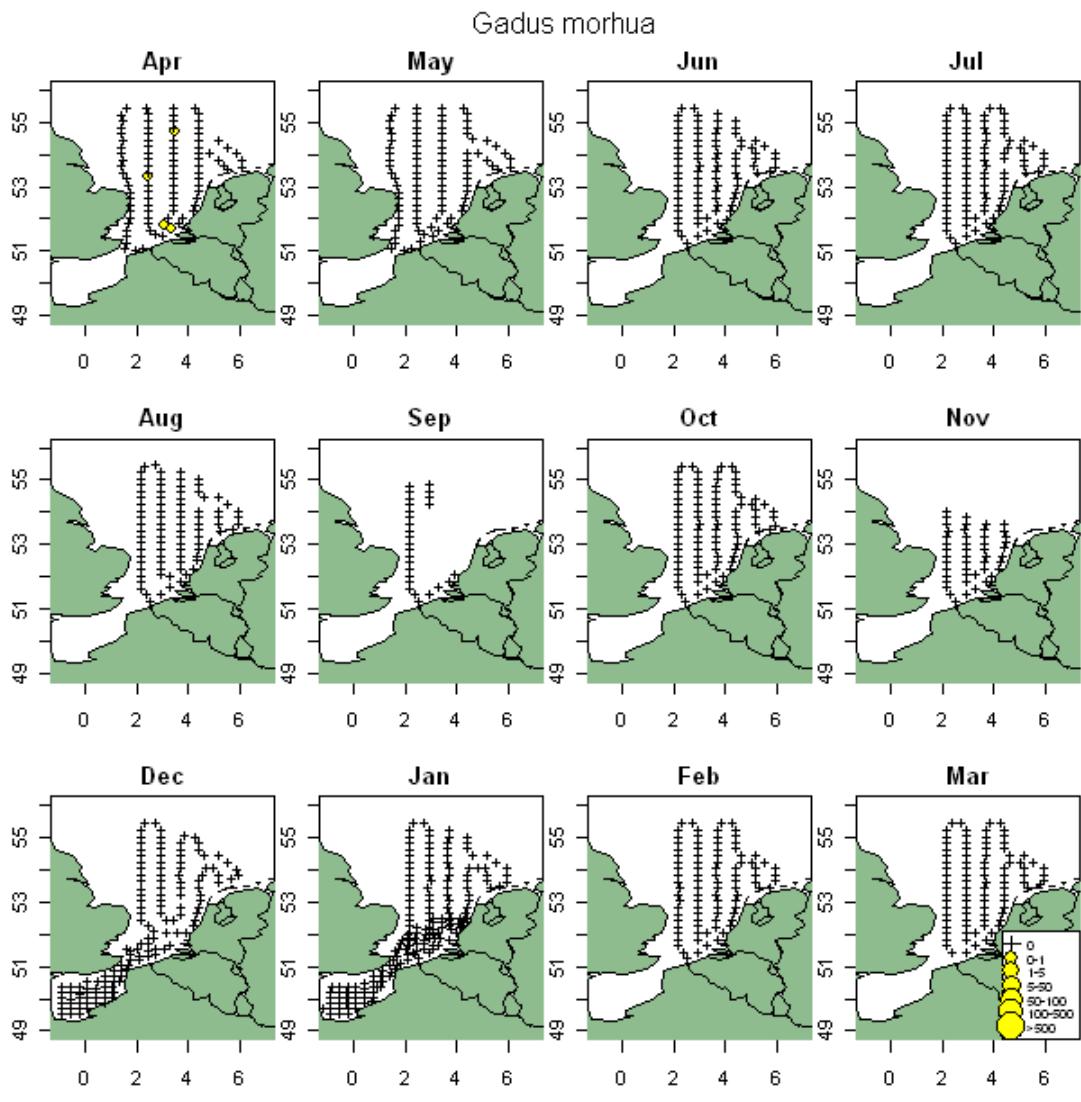


Figure 8d. Spatial and temporal distribution of metamorphosing cod larvae.

## Trisopterus like

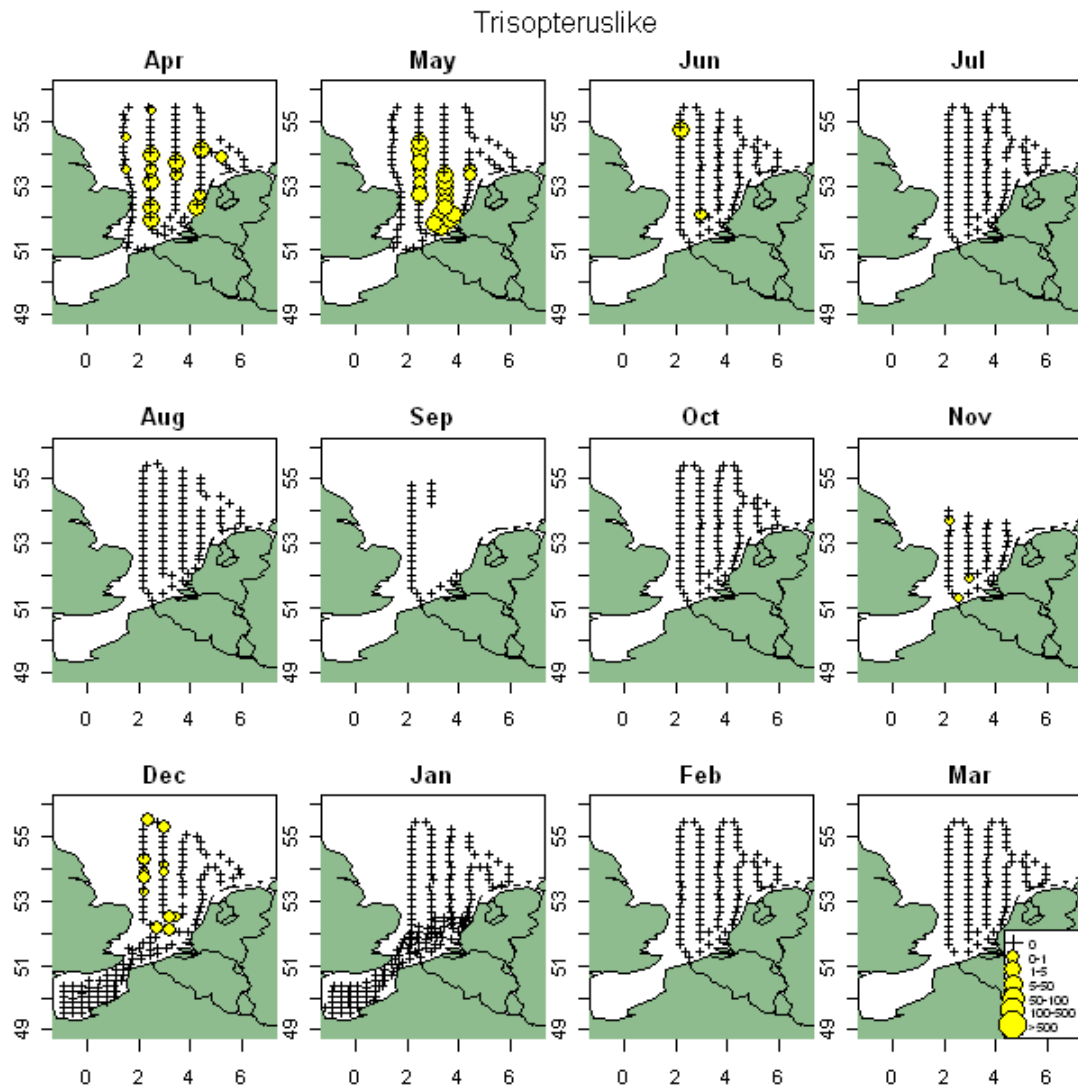


Figure 9a. Spatial and temporal distribution of stage 1 Trisopterus like eggs.

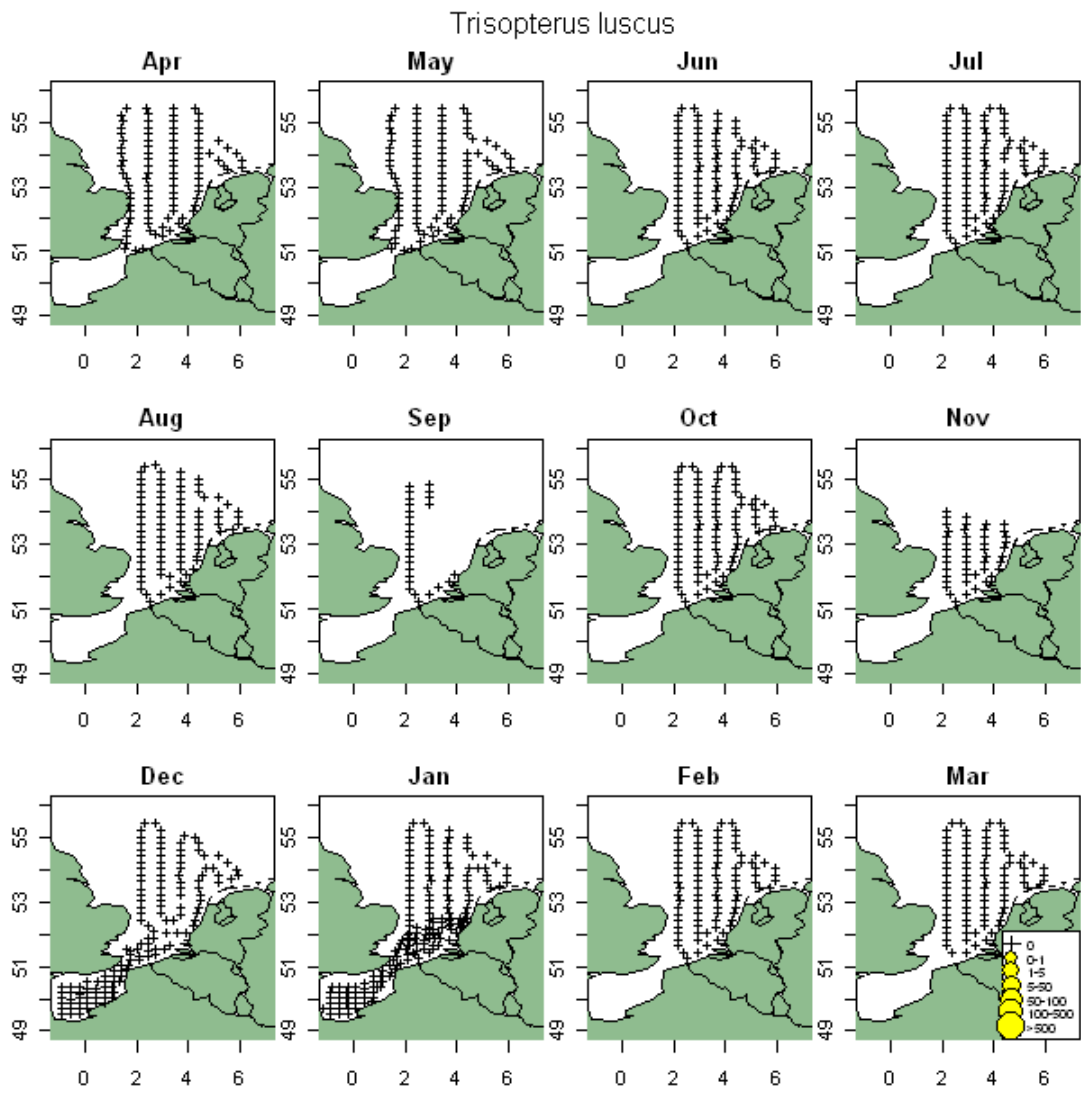


Figure 9b. Spatial and temporal distribution of stage 2 *Trisopterus* like eggs.

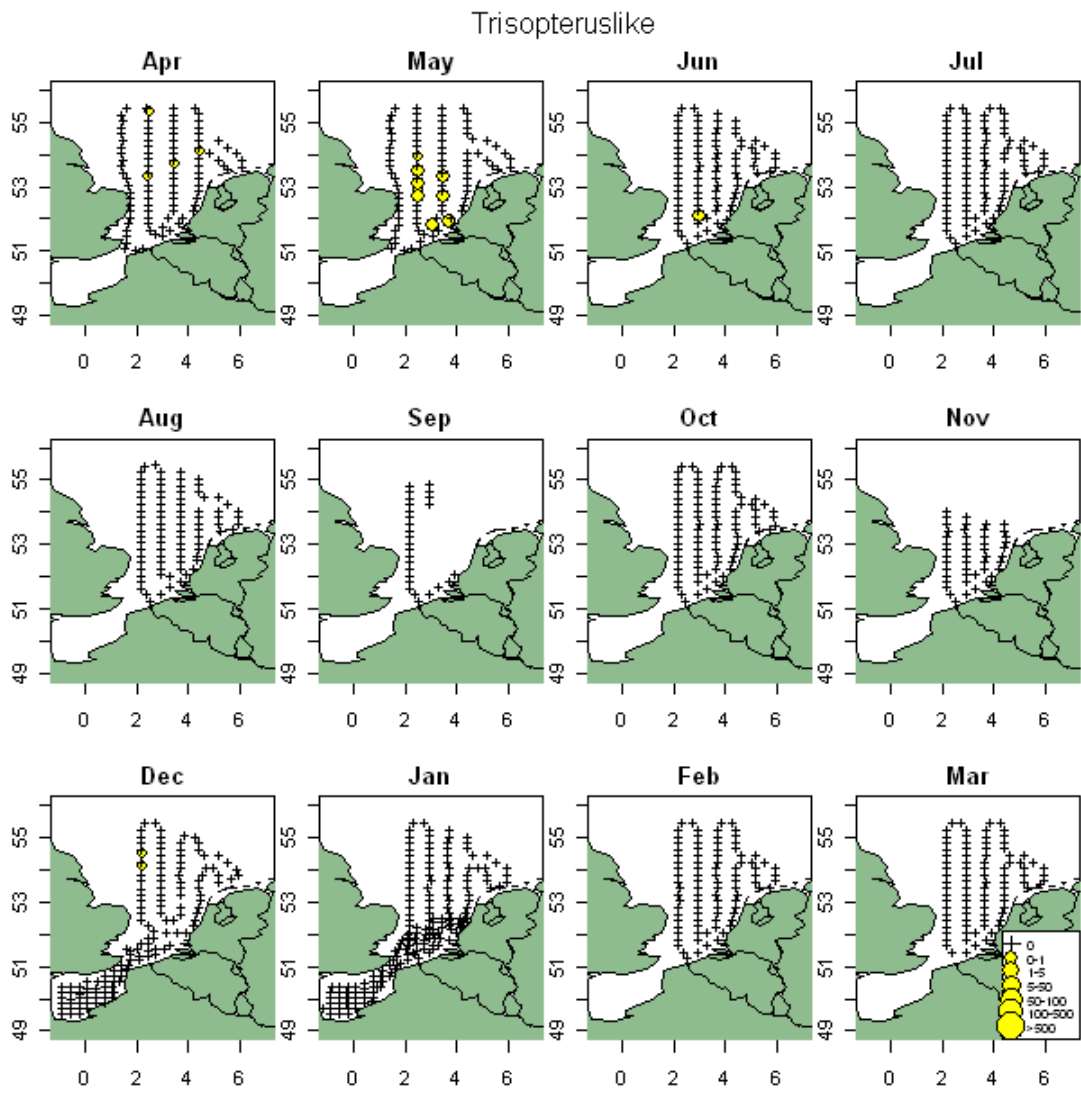


Figure 9c. Spatial and temporal distribution of stage 3 *Trisopterus* like eggs.



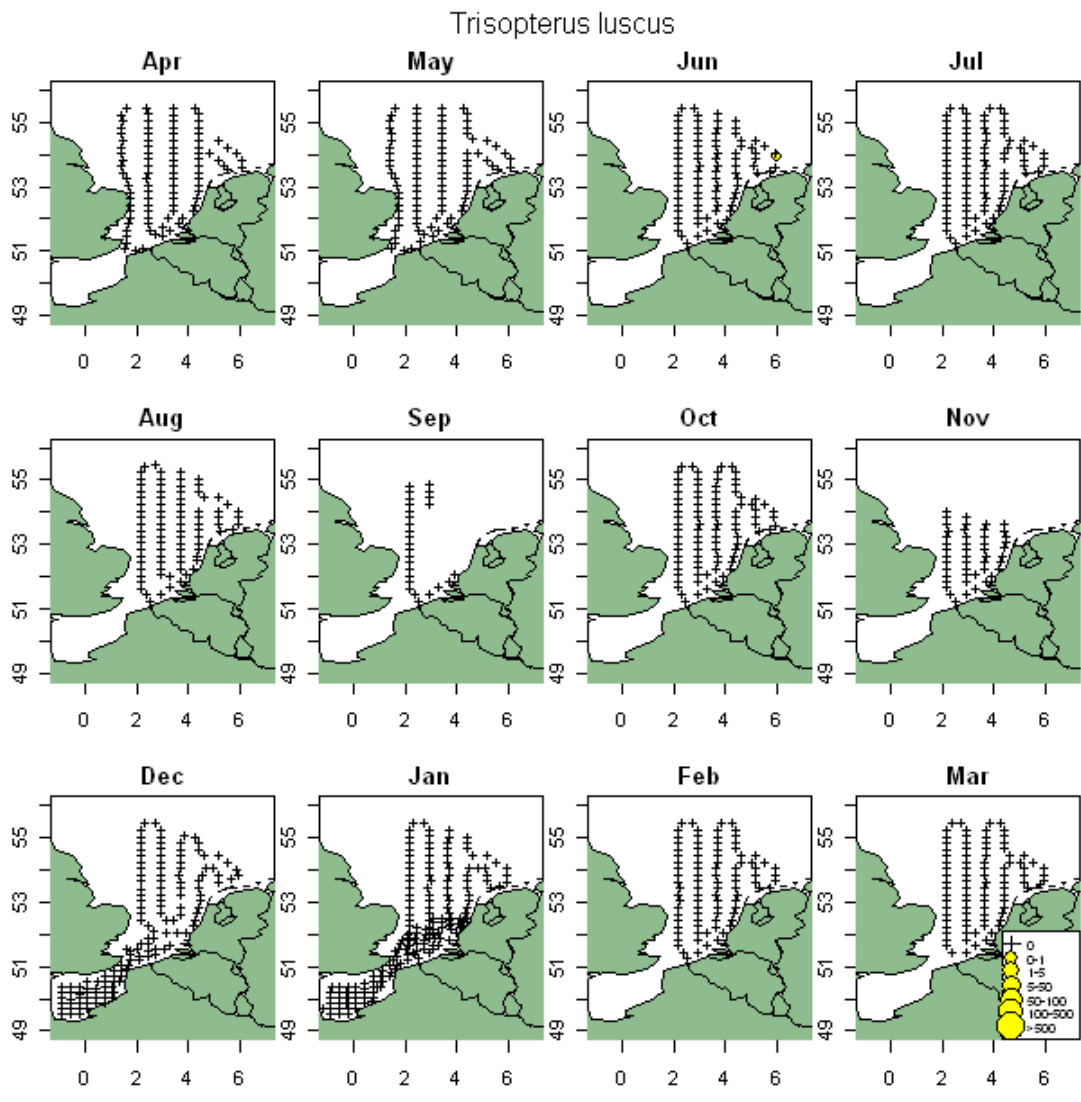


Figure 9d. Spatial and temporal distribution of stage 4 *Trisopterus* like eggs.

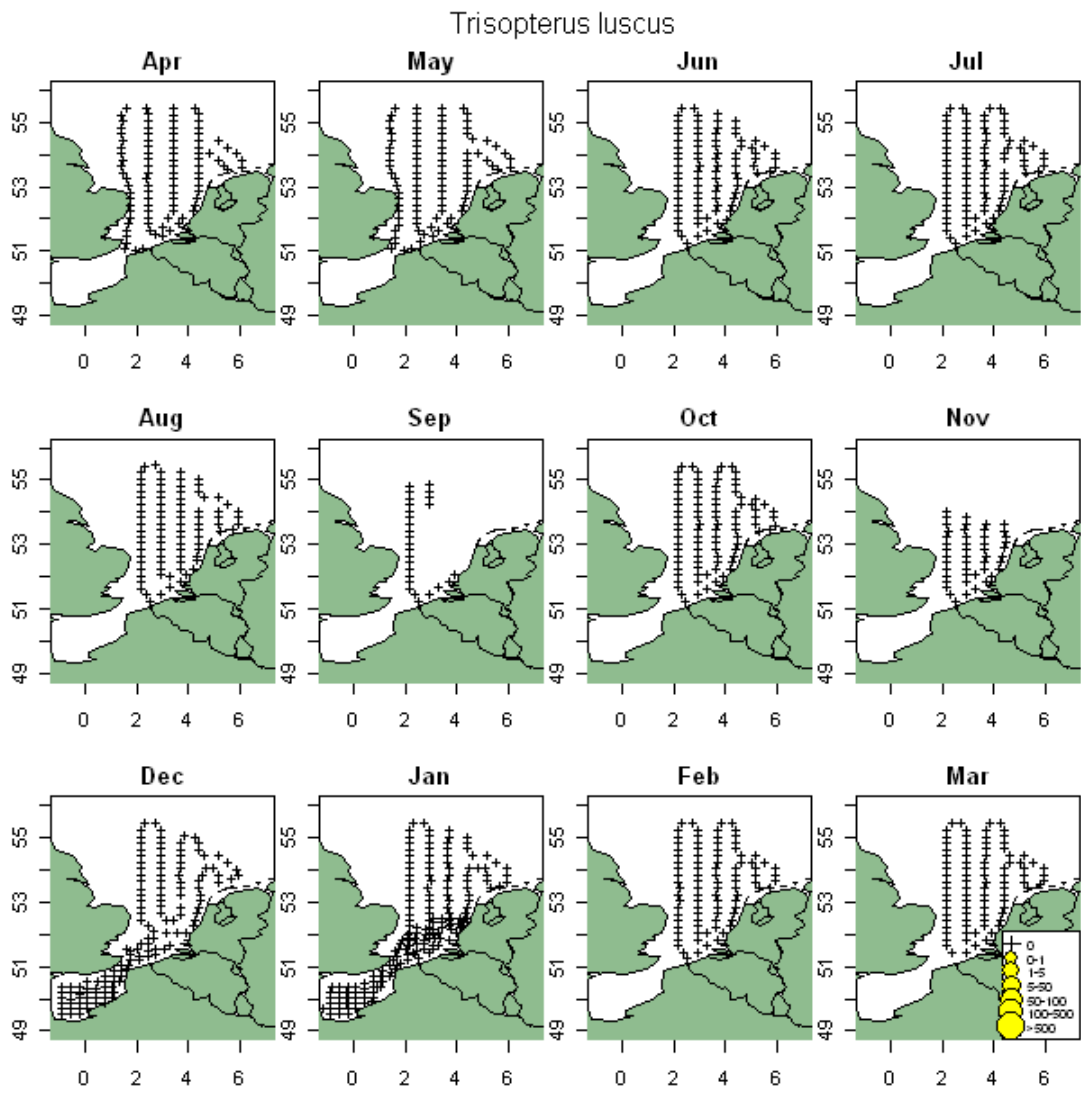


Figure 9e. Spatial and temporal distribution of stage 5 *Trisopterus* like eggs.

**Bib *Trisopterus luscus***

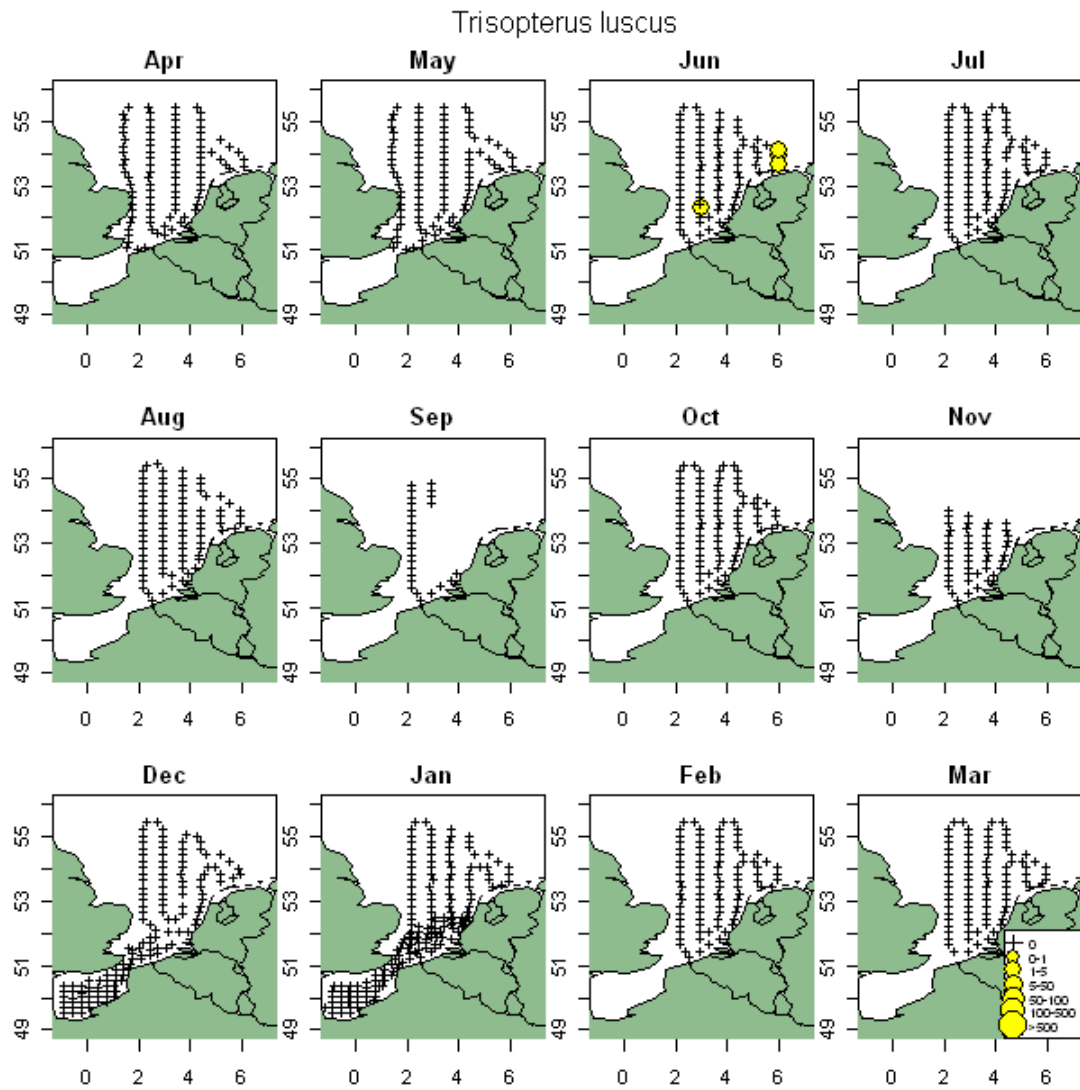


Figure 10a. Spatial and temporal distribution of stage 1 bib eggs.

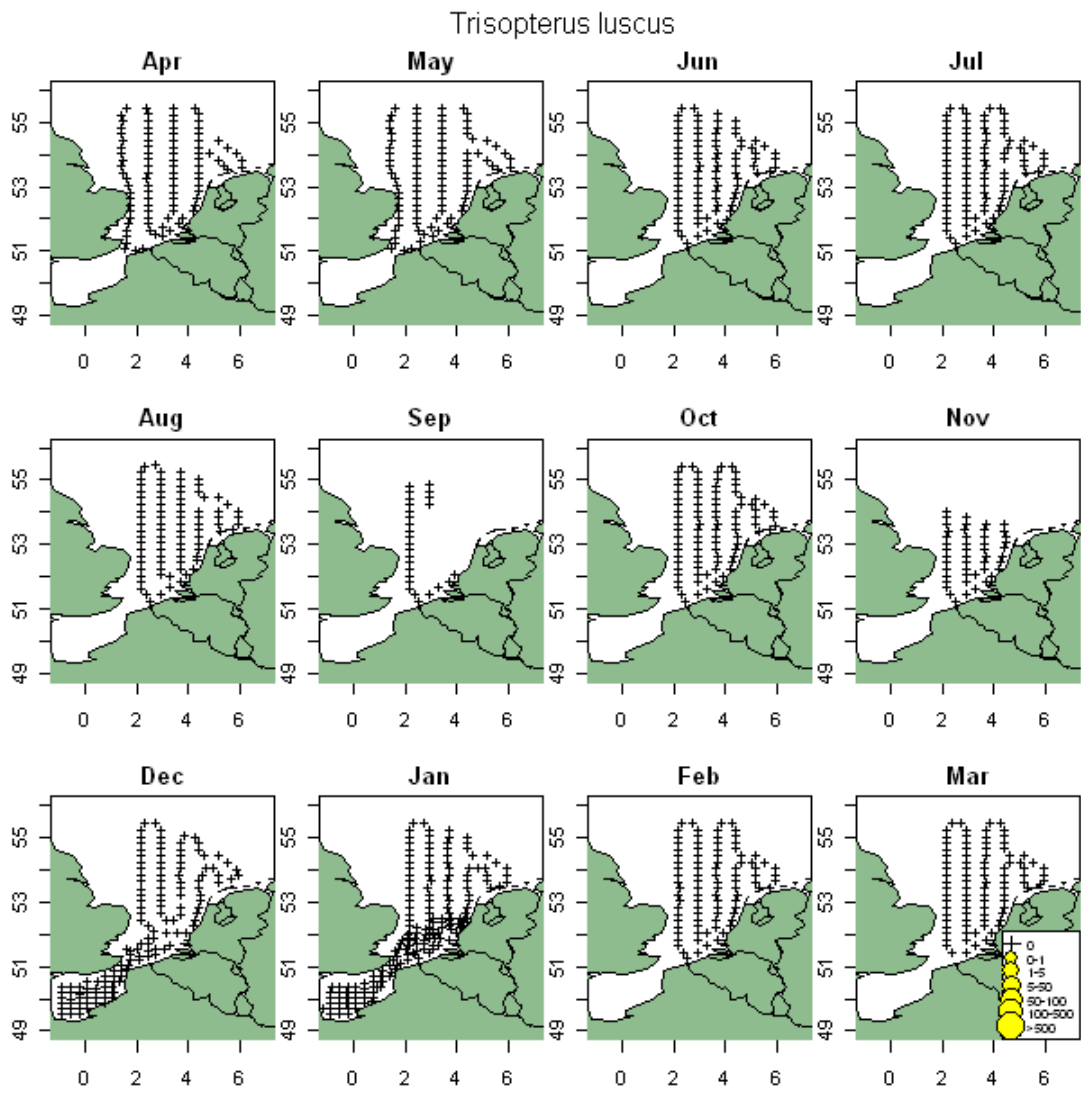


Figure 10b. Spatial and temporal distribution of stage 2 bib eggs.

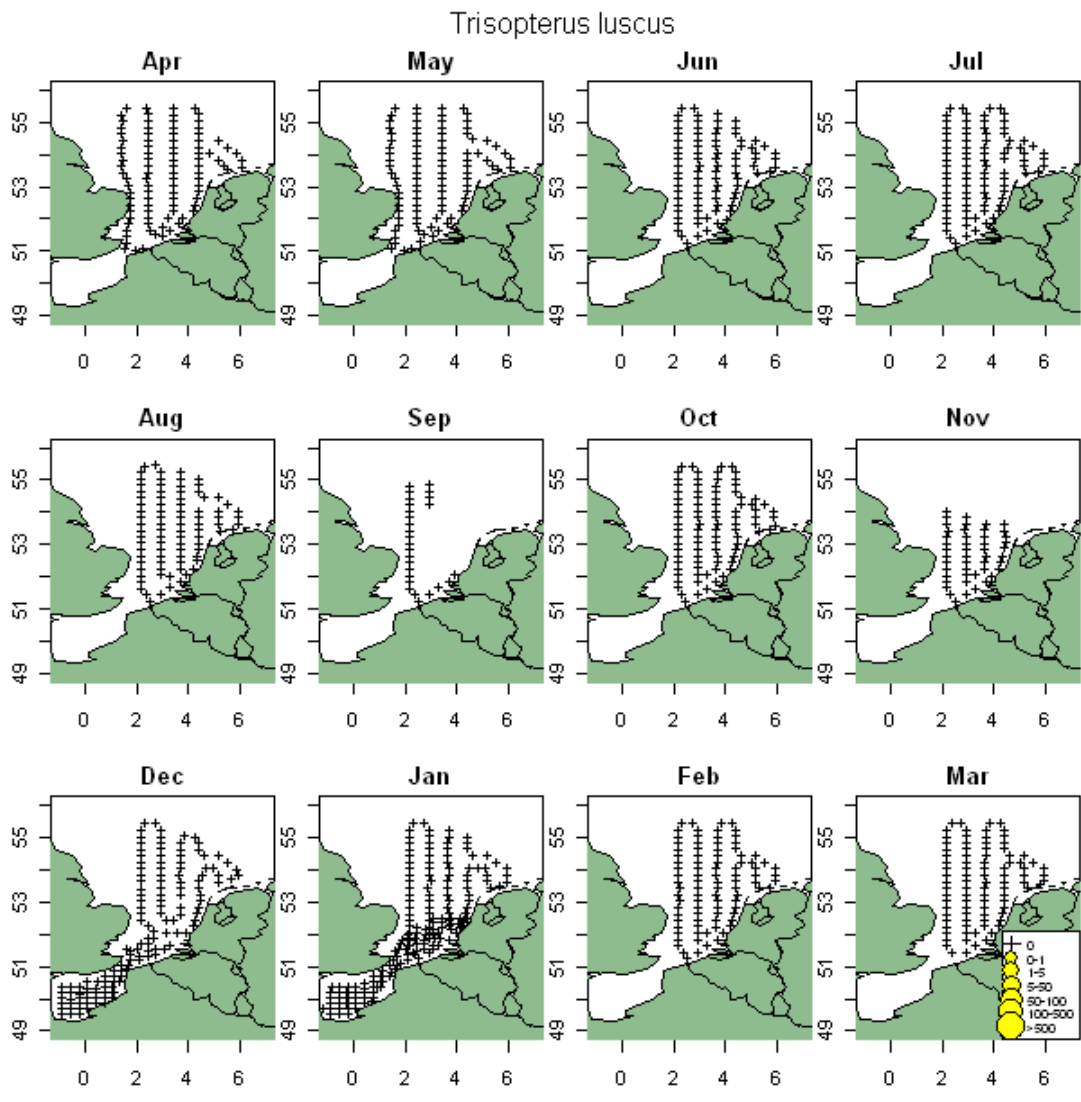


Figure 10c. Spatial and temporal distribution of stage 3 bib eggs.

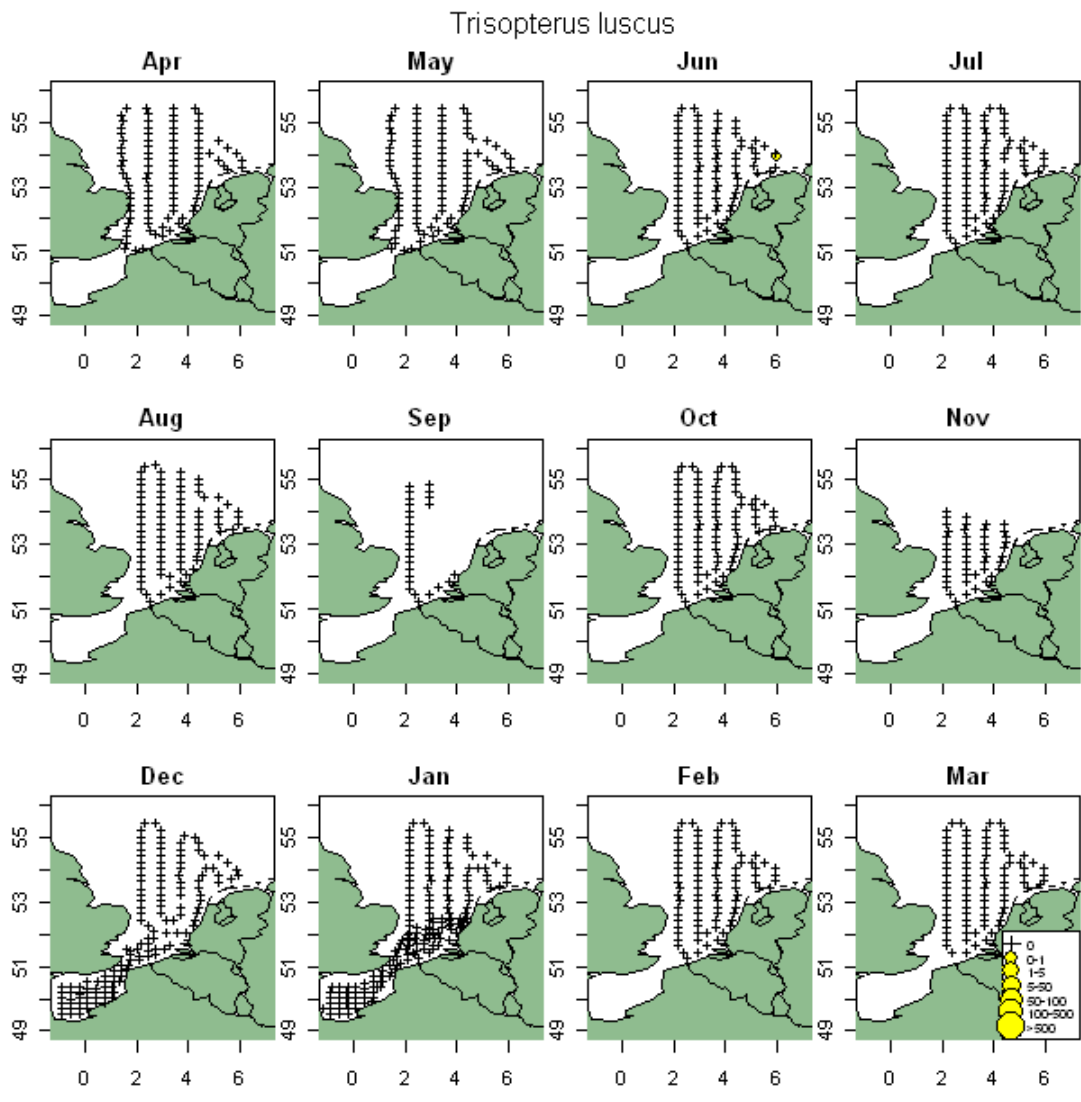


Figure 10d. Spatial and temporal distribution of stage 4 bib eggs.

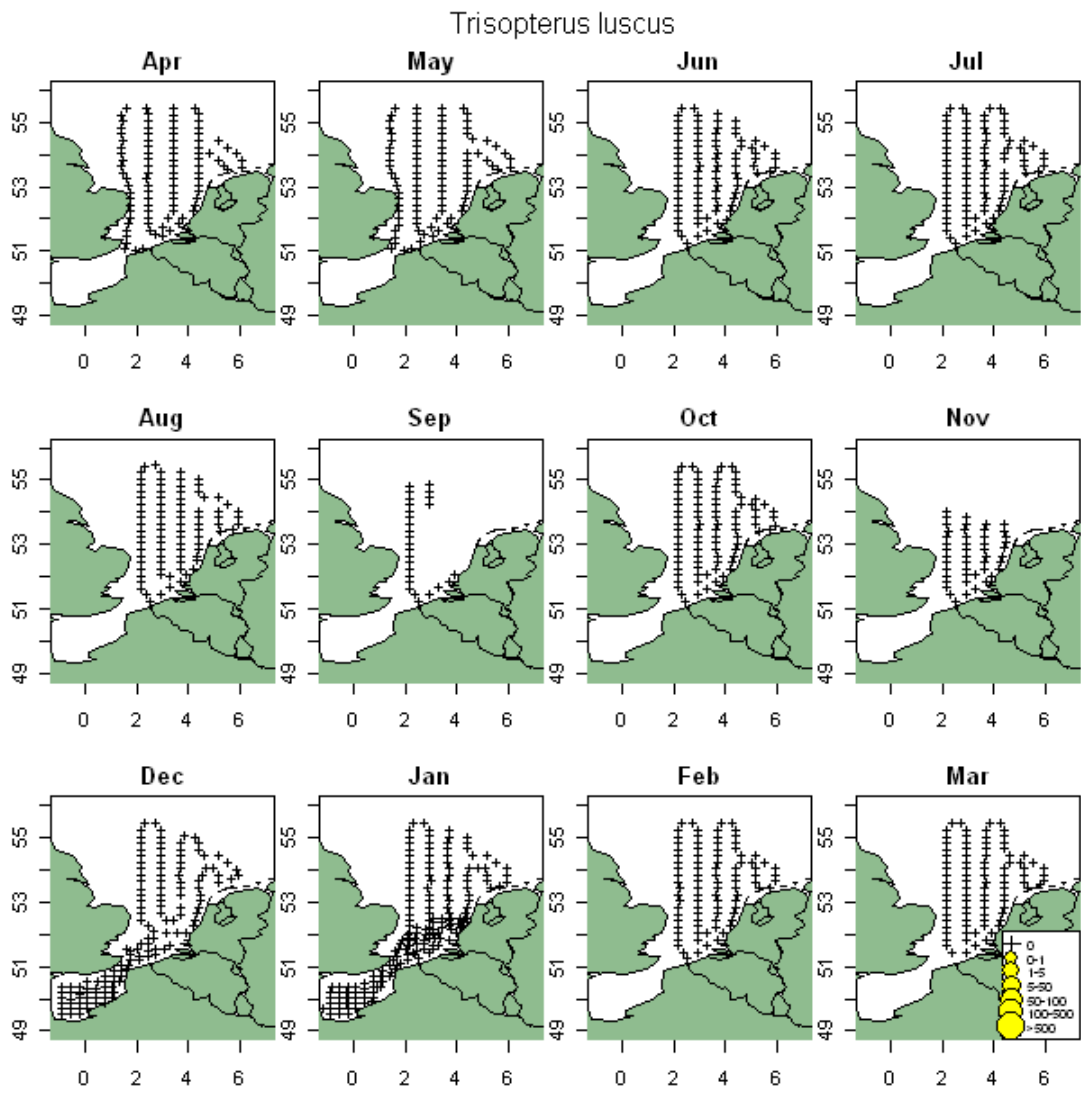


Figure 10e. Spatial and temporal distribution of stage 5 bib eggs.

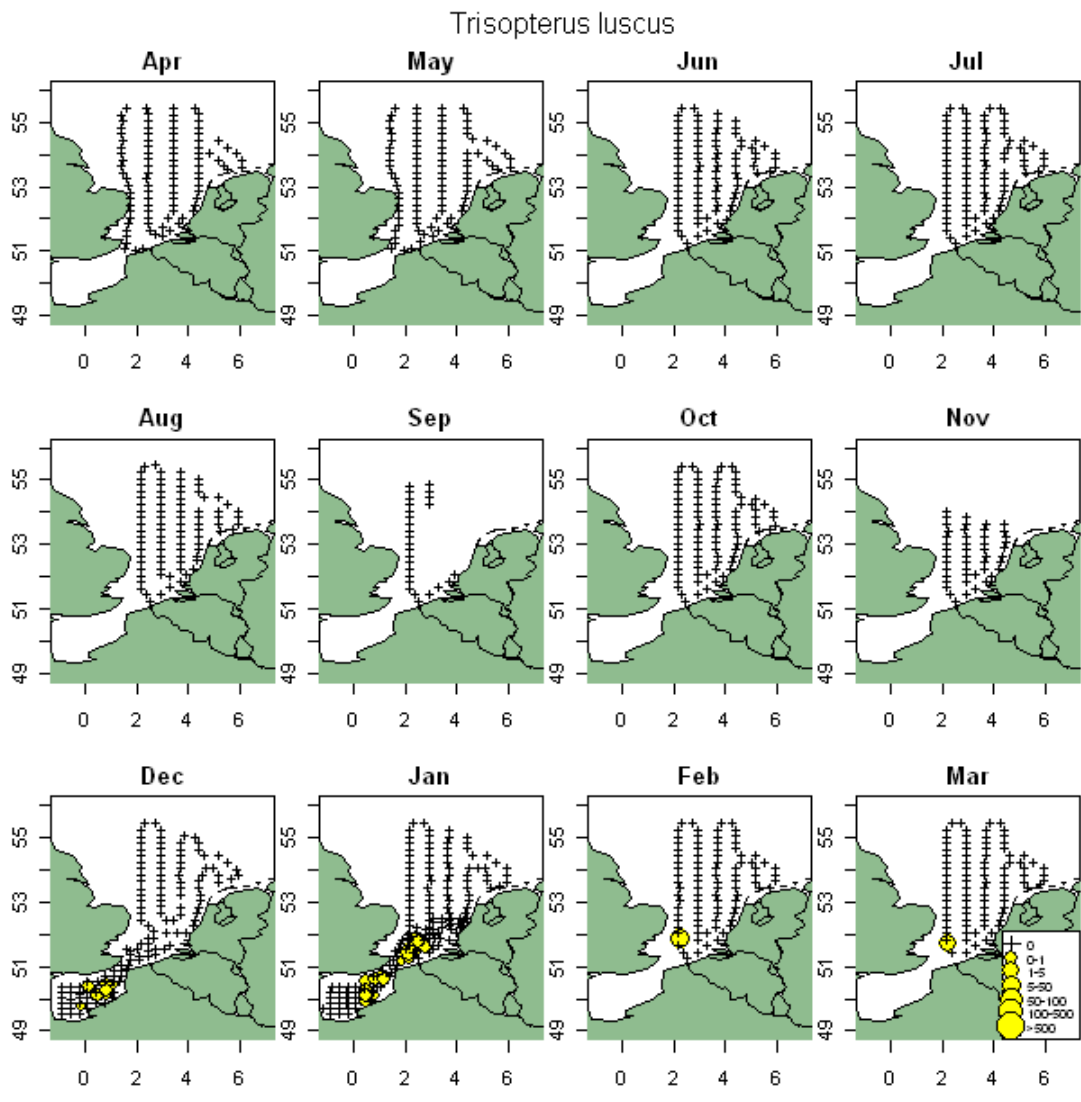


Figure 10f. Spatial and temporal distribution of yolk sac bib larvae.



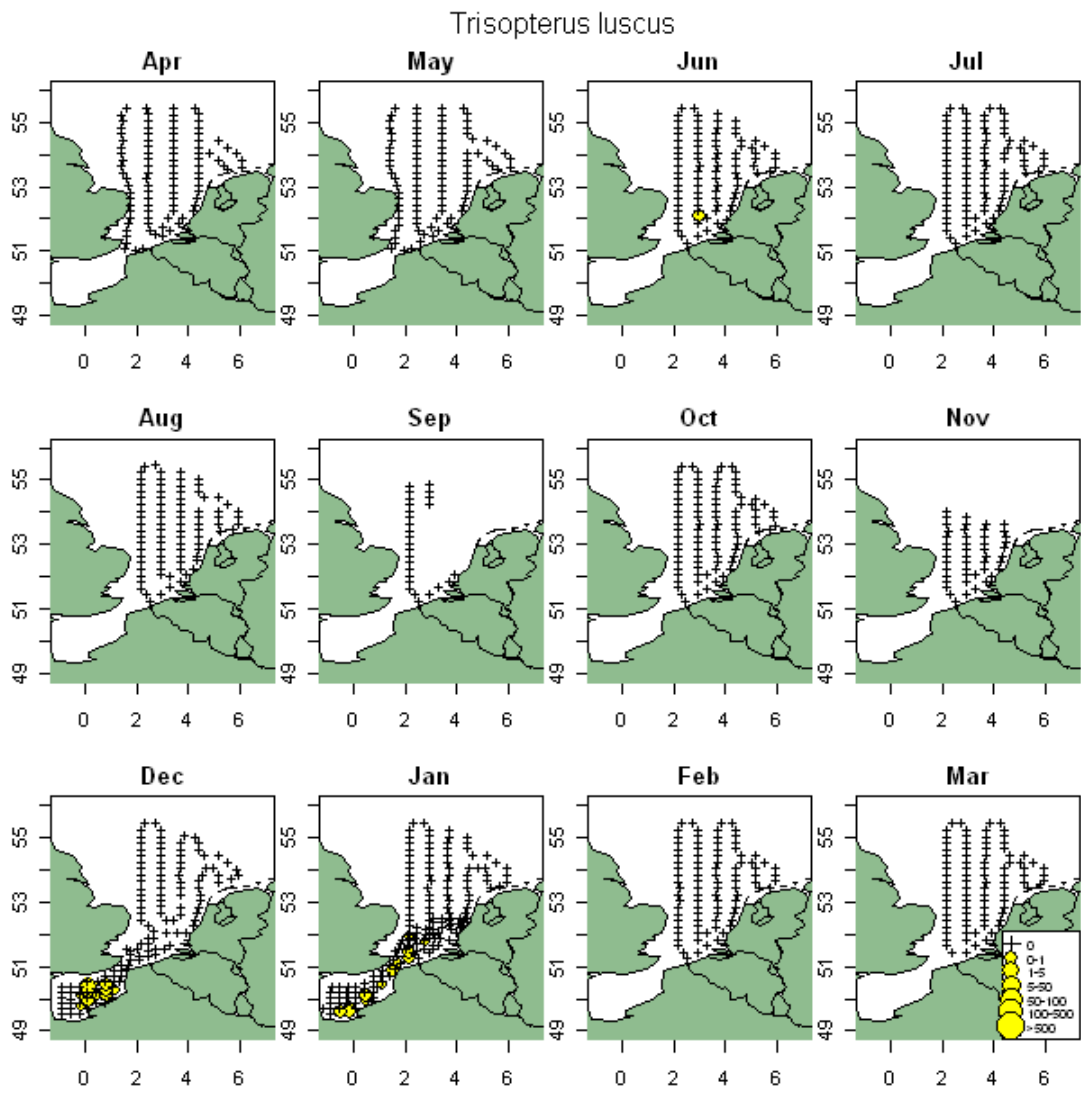


Figure 10g. Spatial and temporal distribution of non-yolk sac bib larvae.

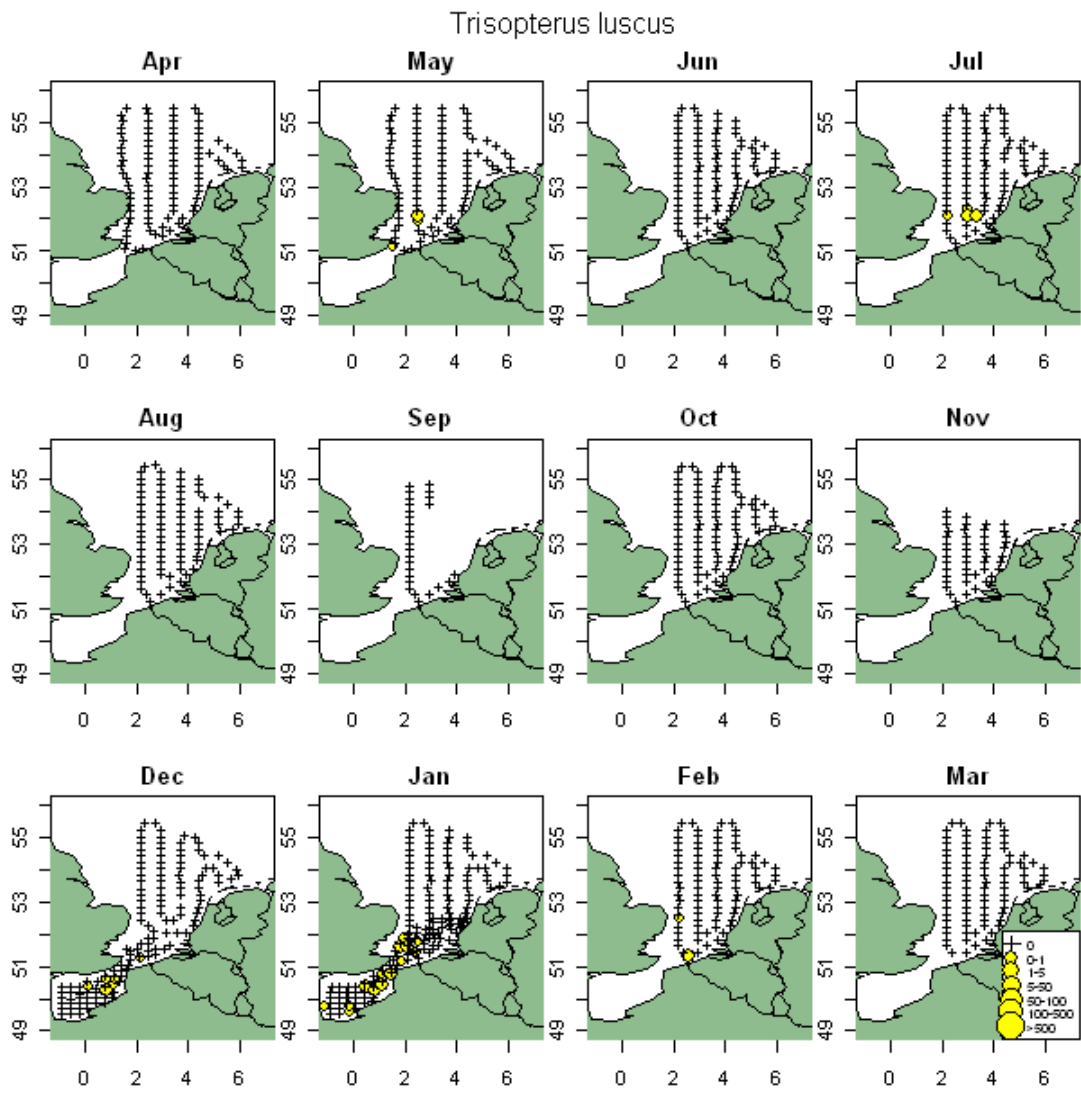


Figure 10h. Spatial and temporal distribution of bent notochord stage bib larvae.

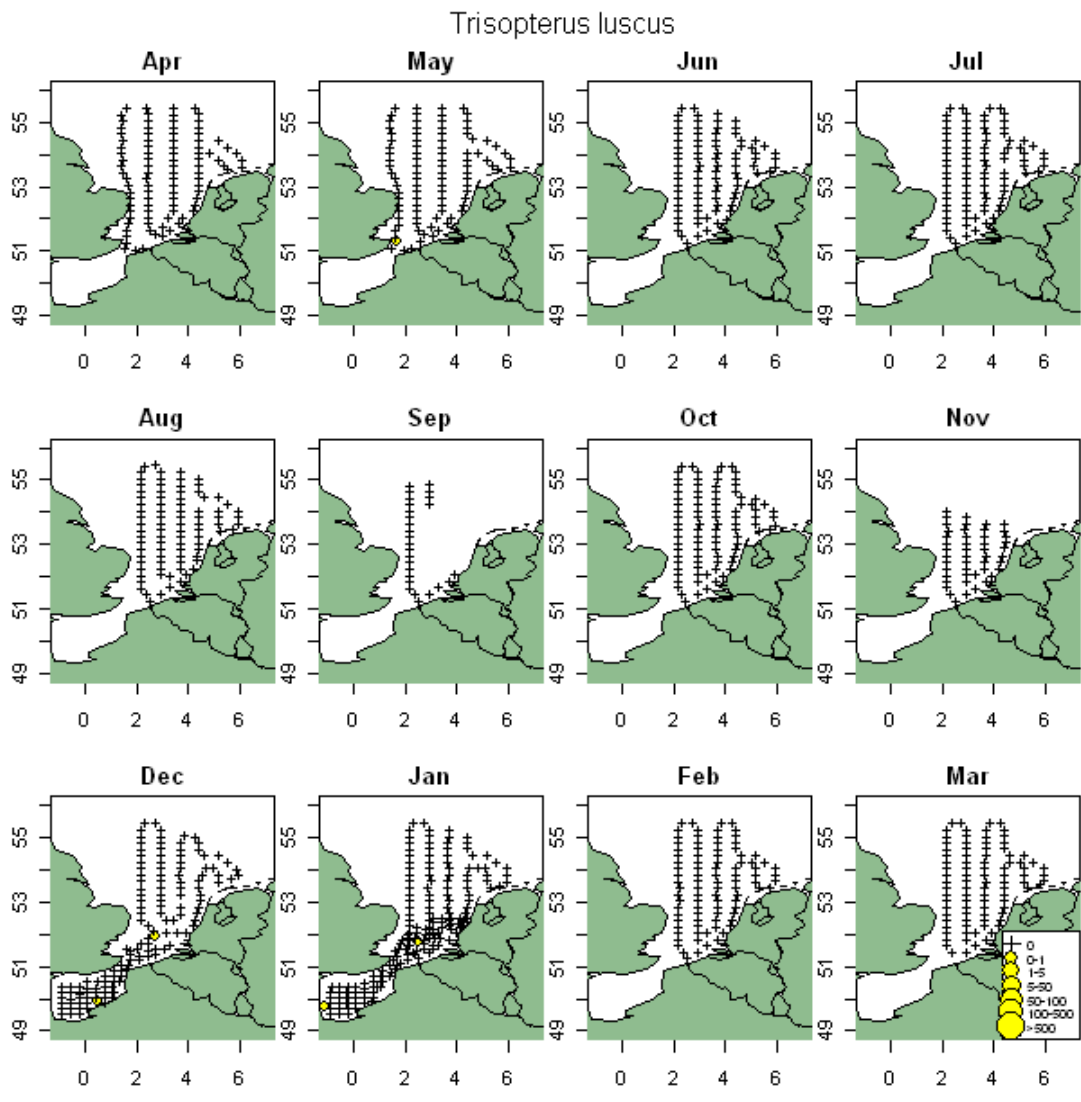


Figure 10i. Spatial and temporal distribution of metamorphosing bib larvae.

**Whiting *Merlangius merlangus***

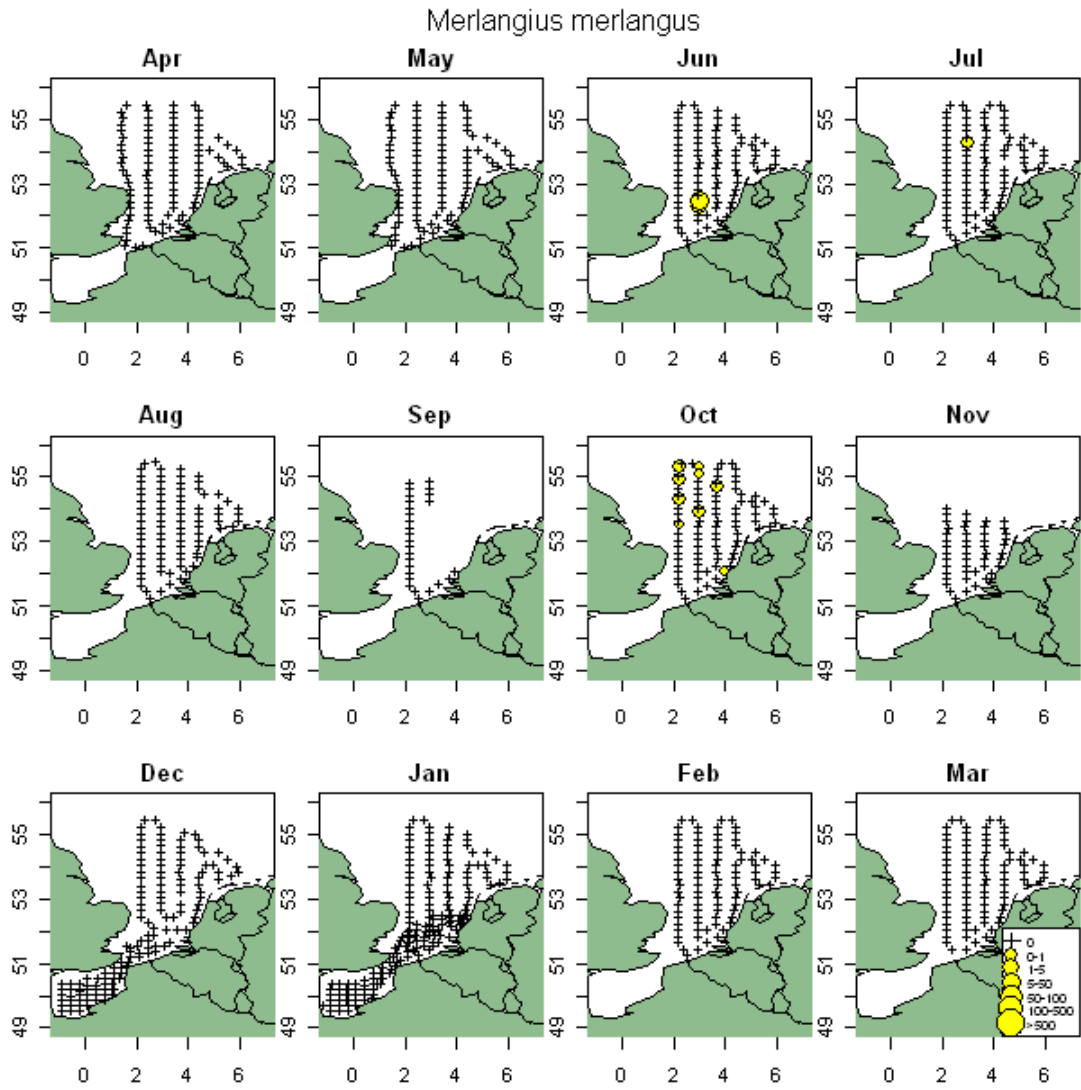


Figure 11a. Spatial and temporal distribution of stage 1 whiting eggs.

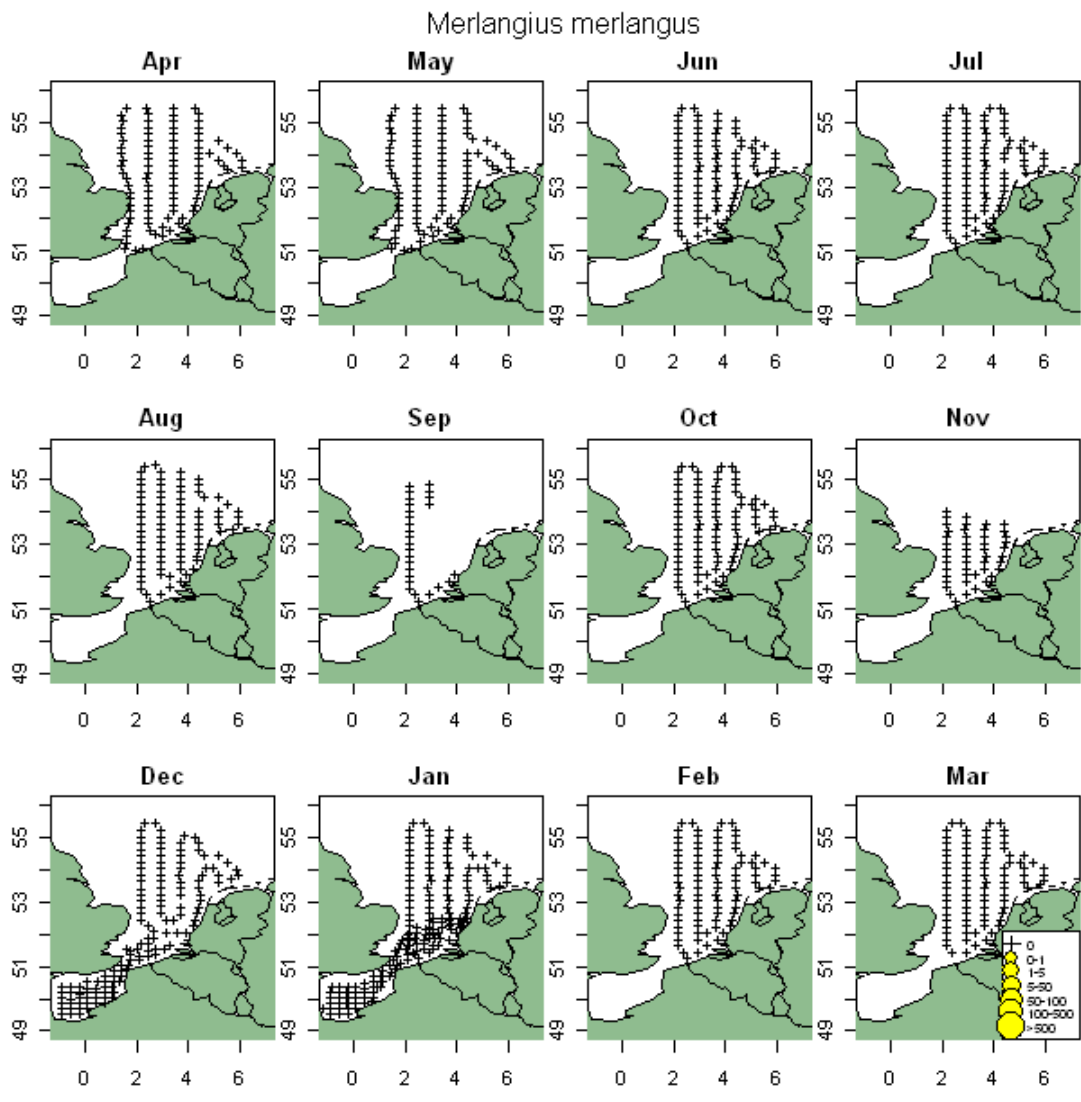


Figure 11b. Spatial and temporal distribution of stage 2 whiting eggs.

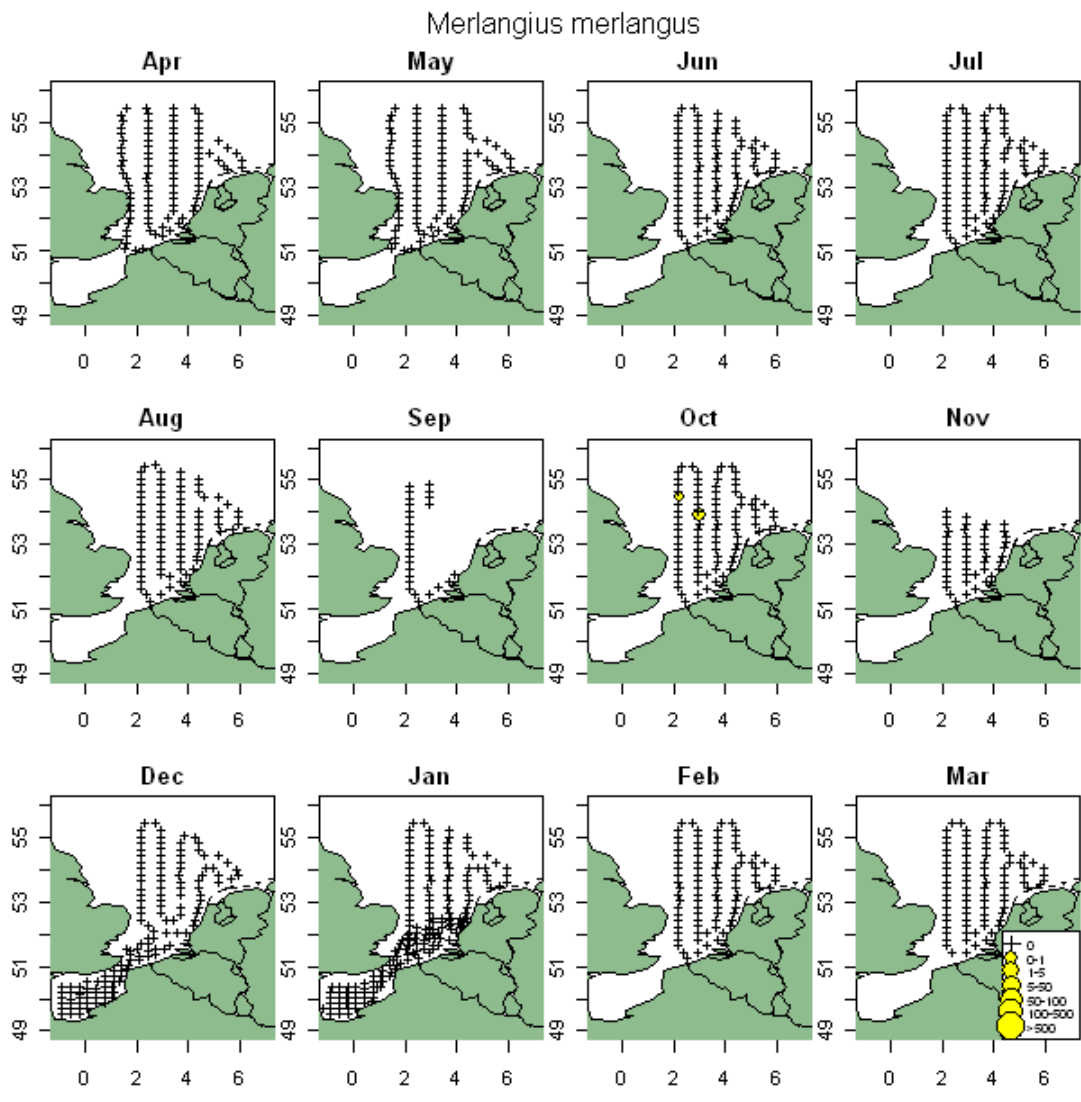


Figure 11c. Spatial and temporal distribution of stage 3 whiting eggs.

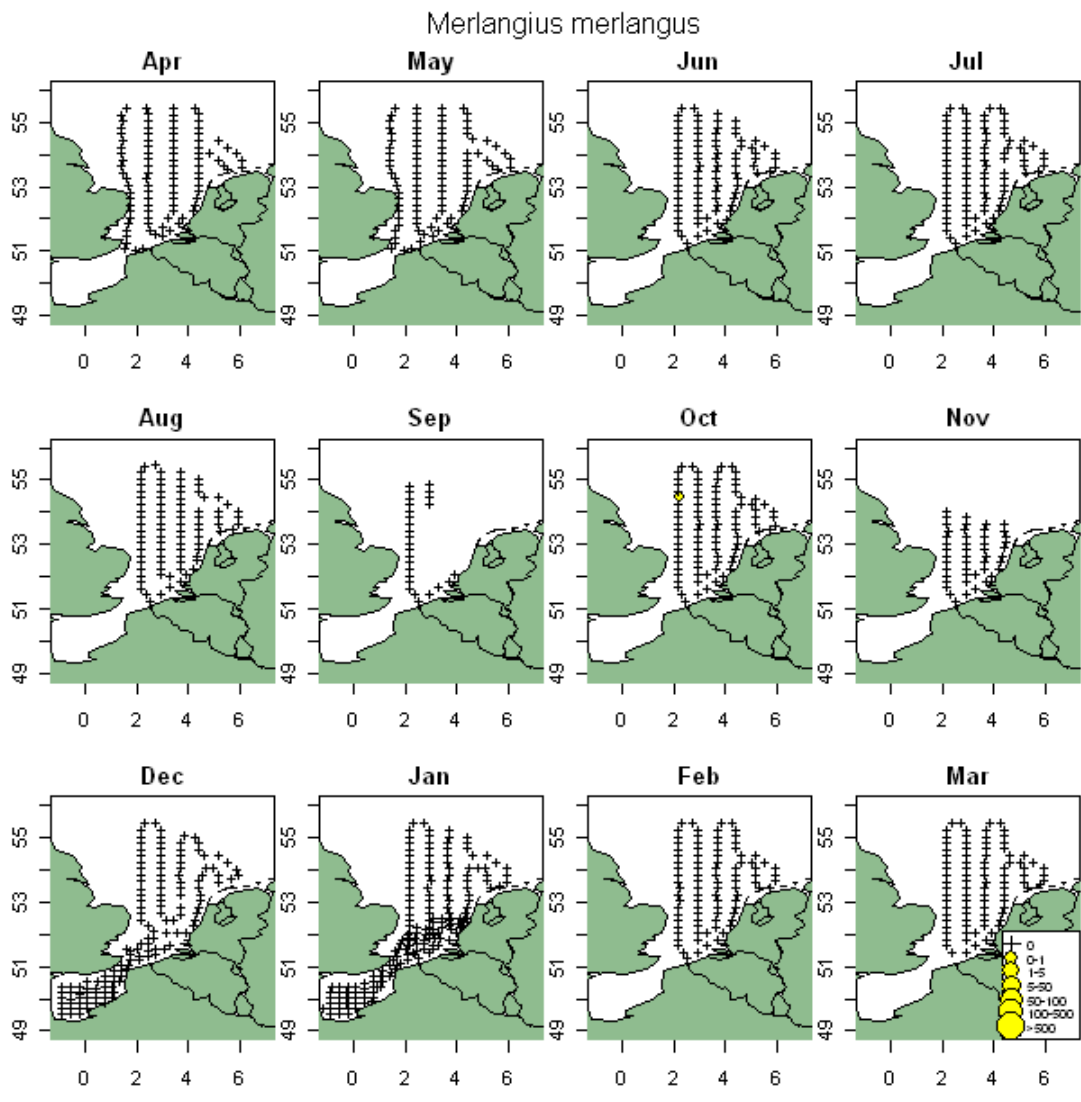


Figure 11d. Spatial and temporal distribution of stage 4 whiting eggs.

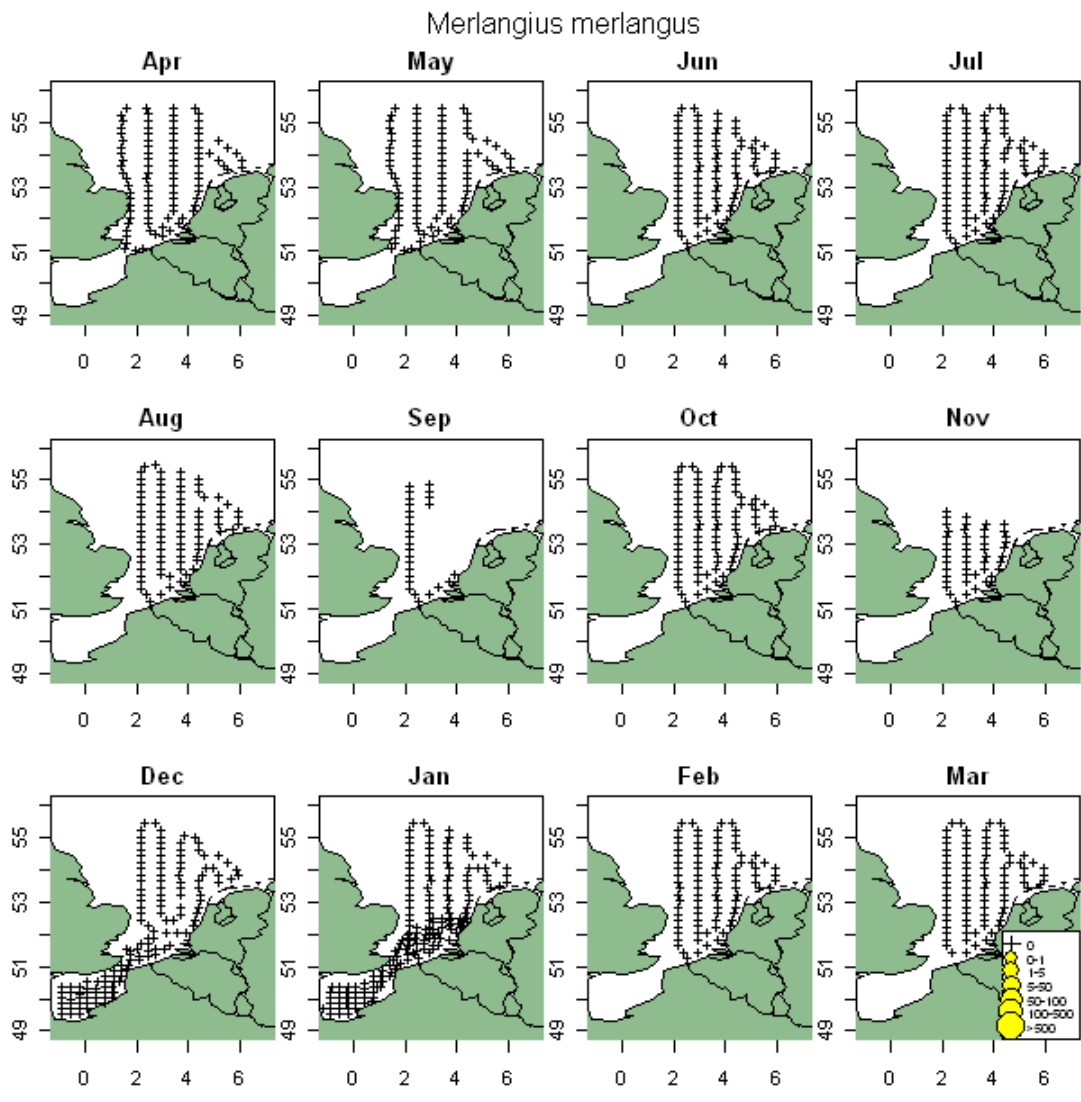


Figure 11e. Spatial and temporal distribution of stage 5 whiting eggs.



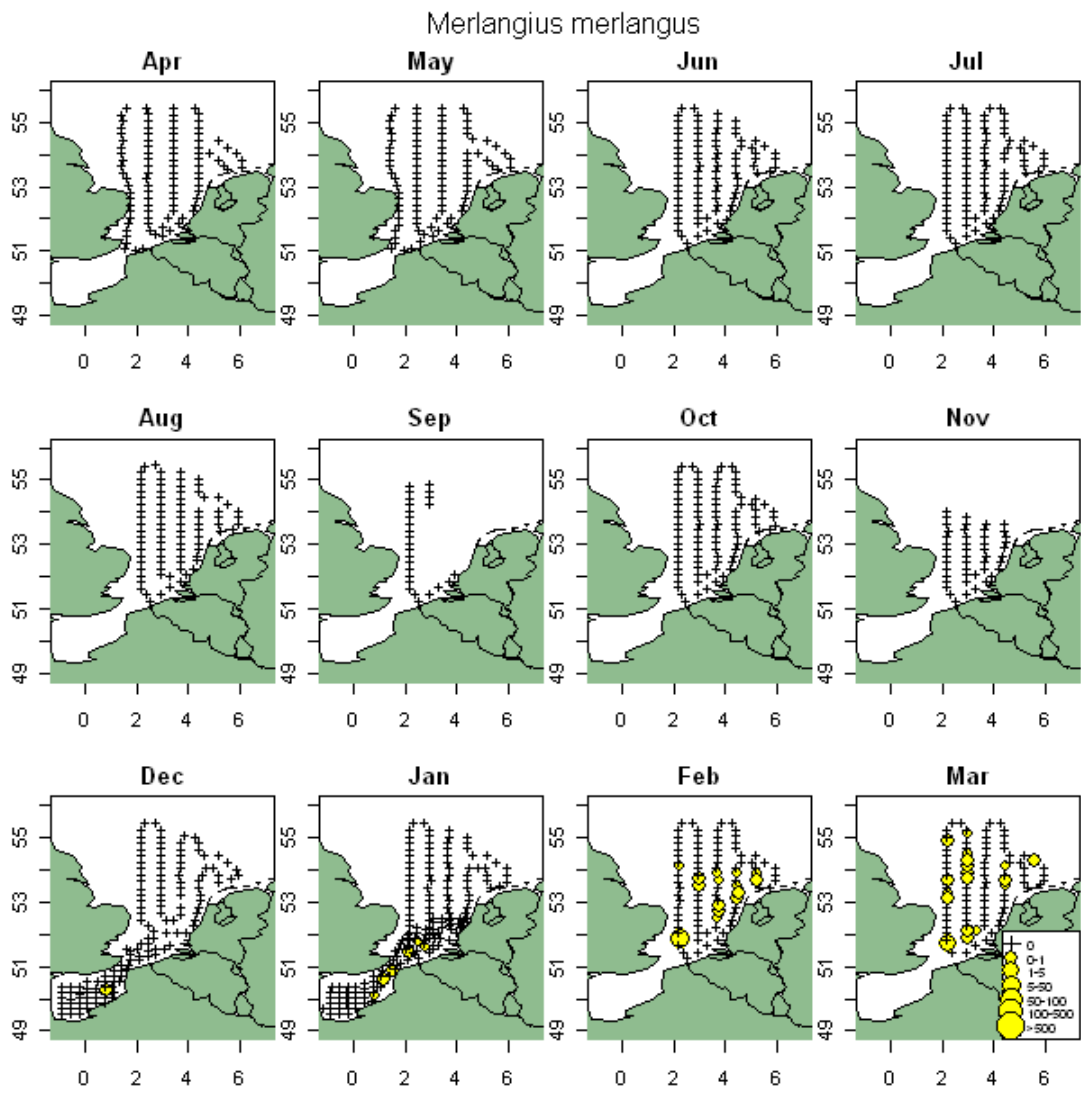


Figure 11f. Spatial and temporal distribution of yolk sac whiting larvae.

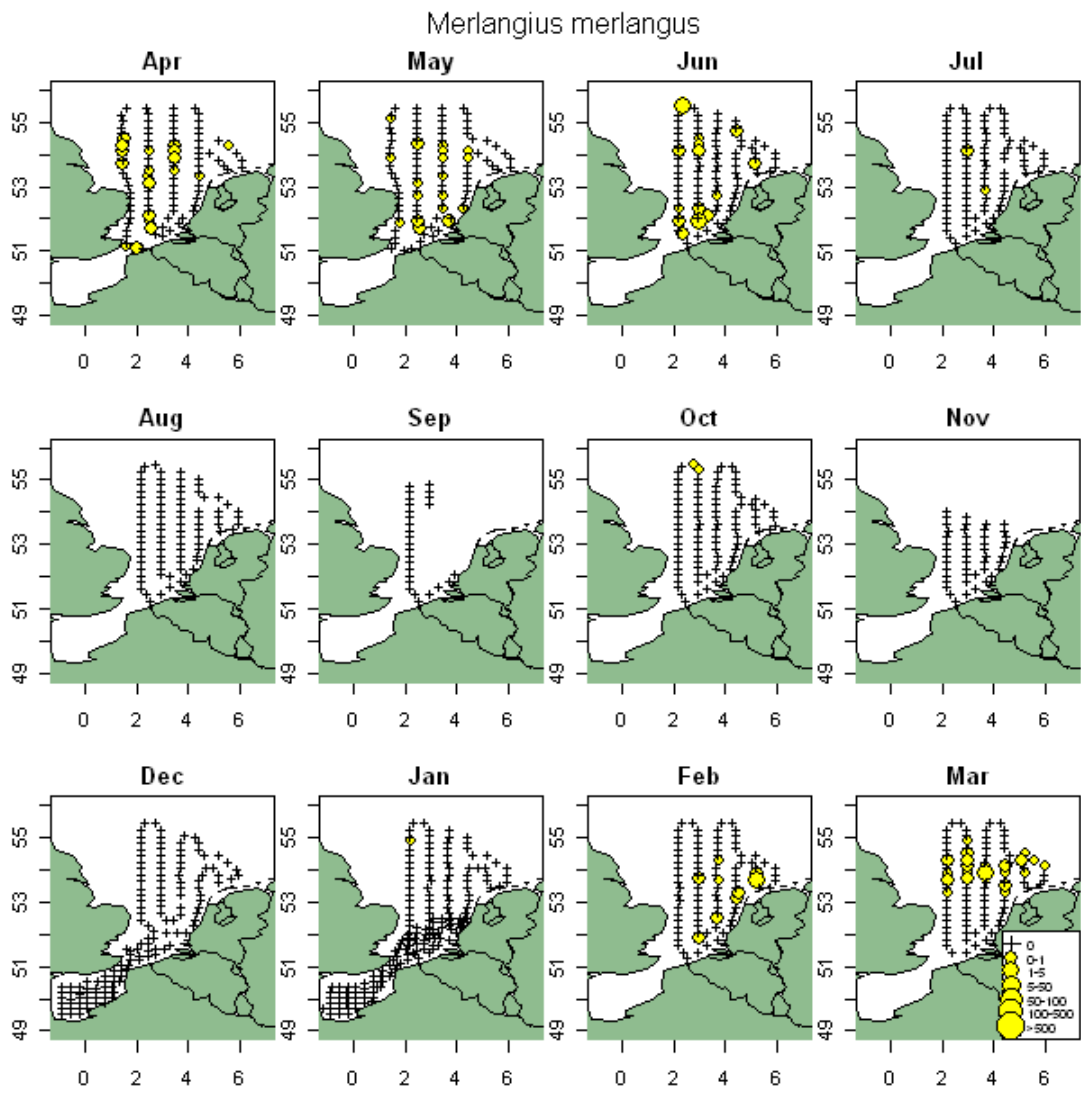


Figure 11g. Spatial and temporal distribution of non-yolk sac whiting larvae.

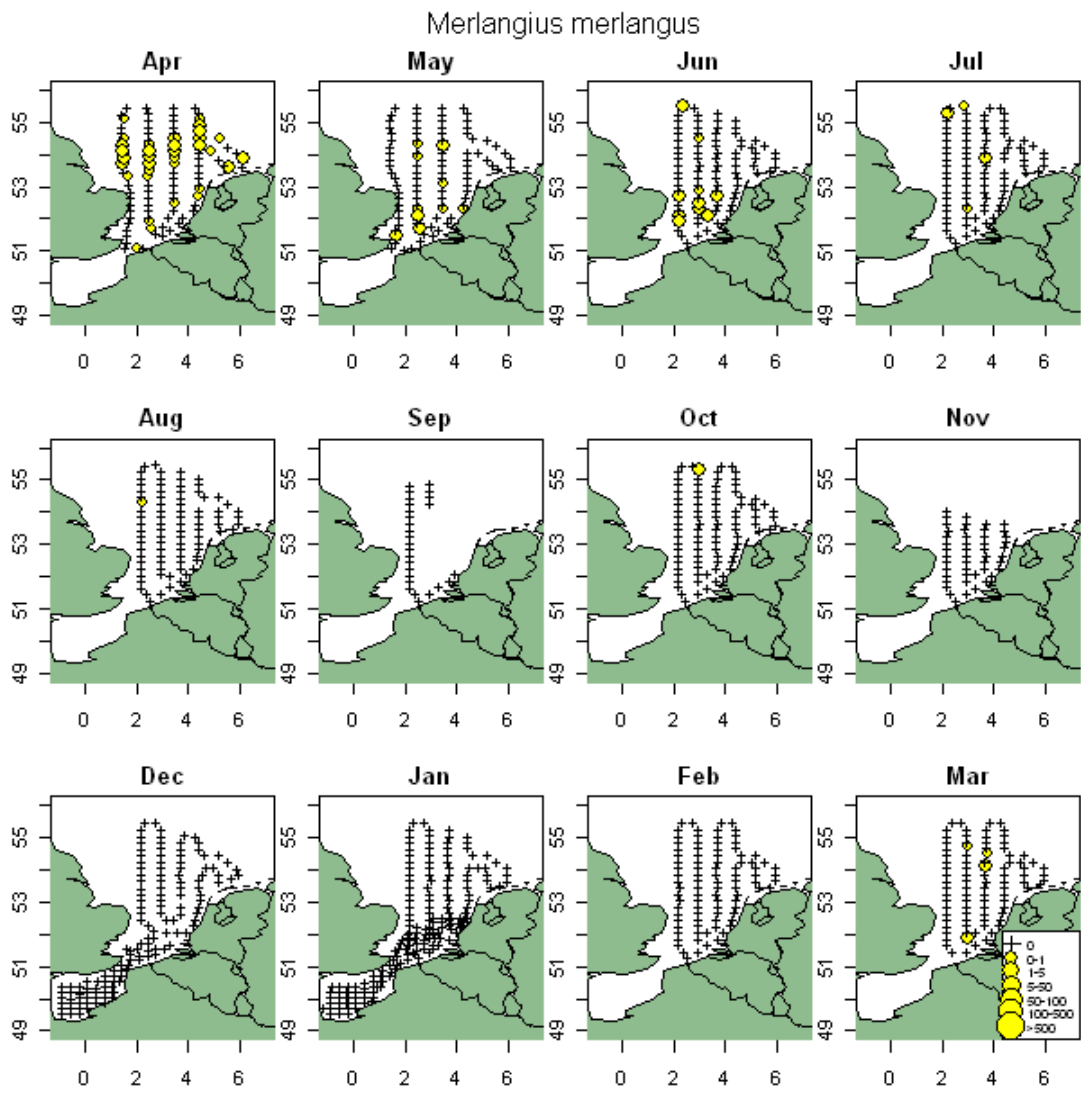


Figure 11h. Spatial and temporal distribution of bent notochord stage whiting larvae.

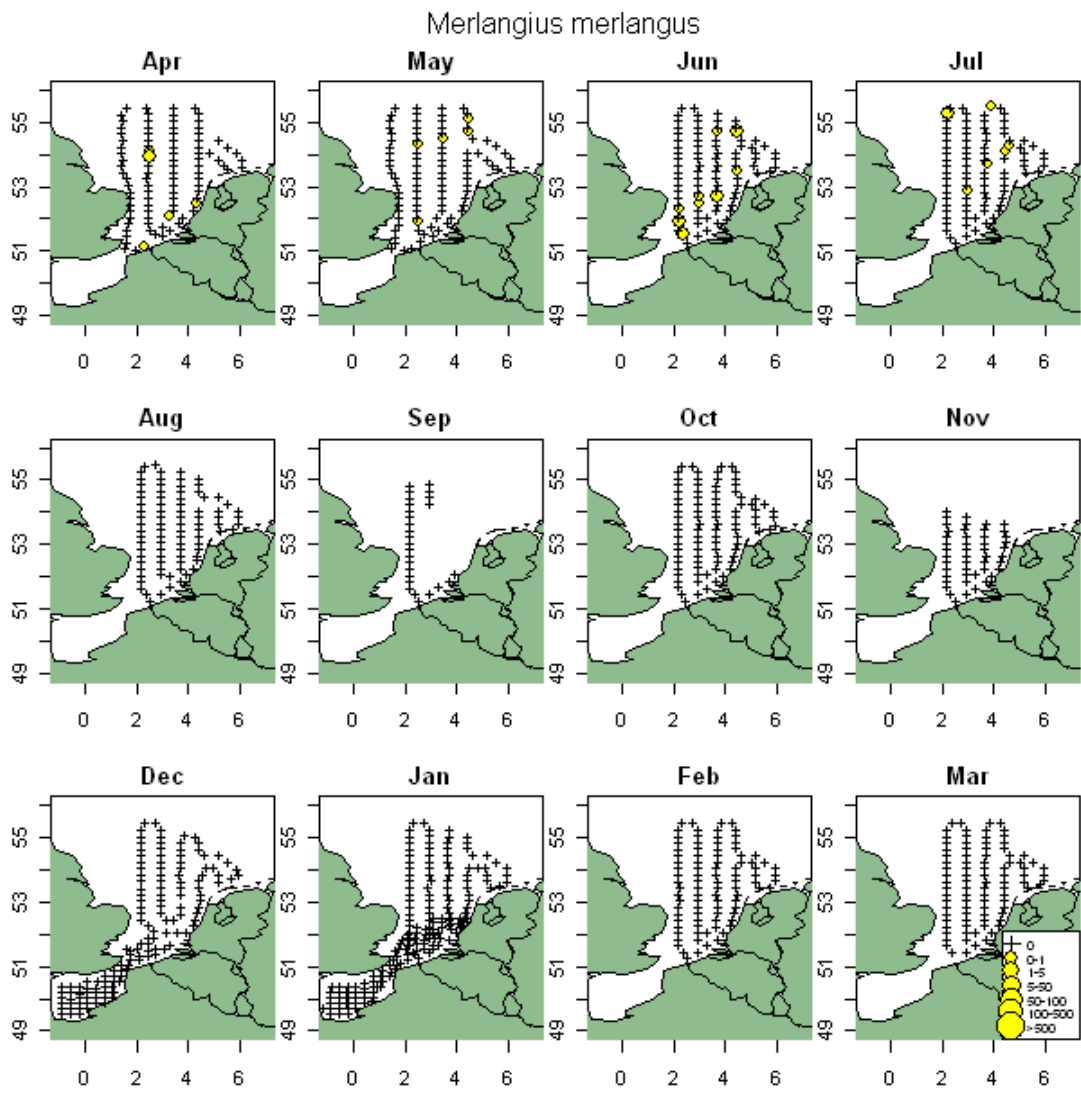


Figure 11i. Spatial and temporal distribution of metamorphosing whiting larvae.

**Tadpole fish *Raniceps raninus***

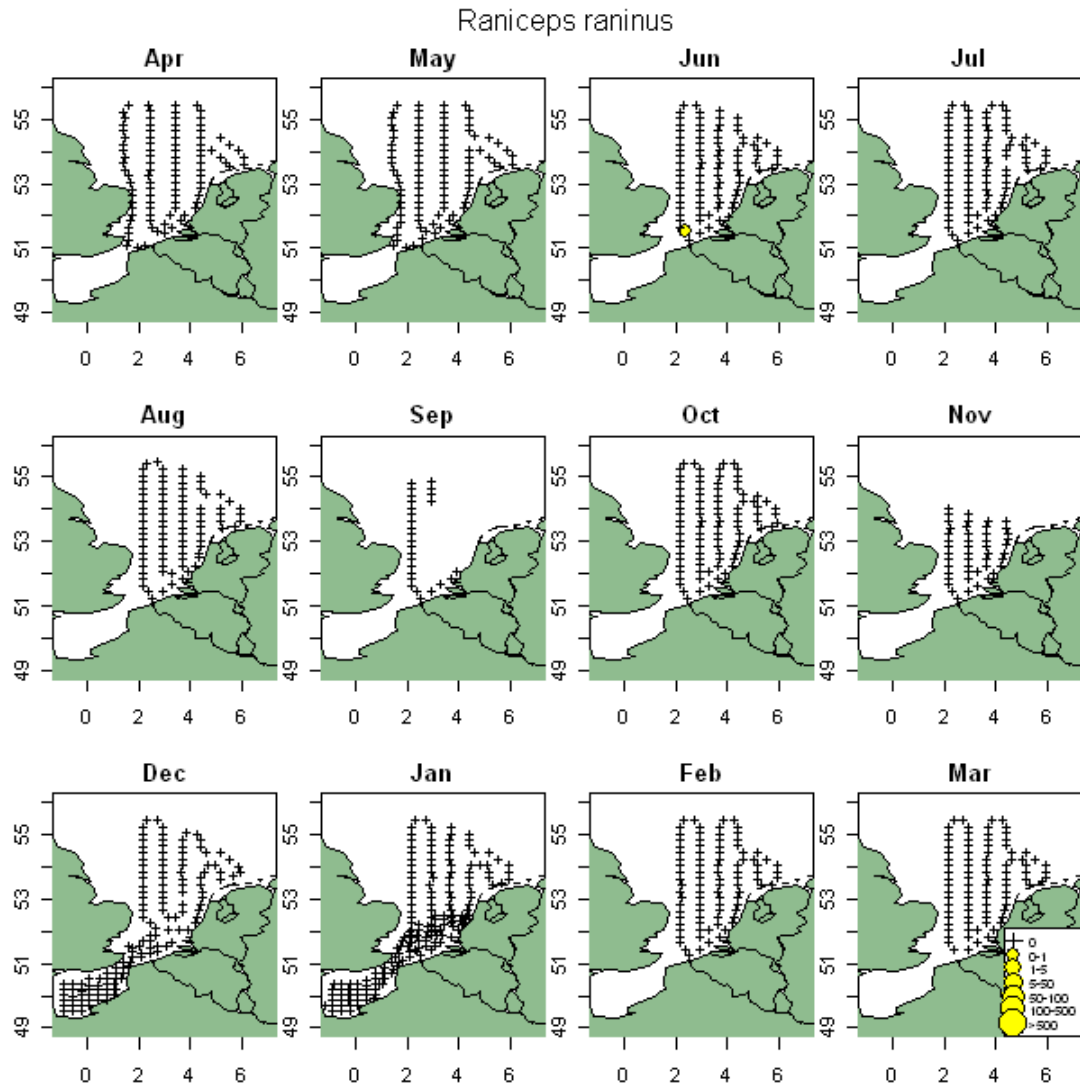


Figure 12a. Spatial and temporal distribution of stage 1 tadpole fish eggs.

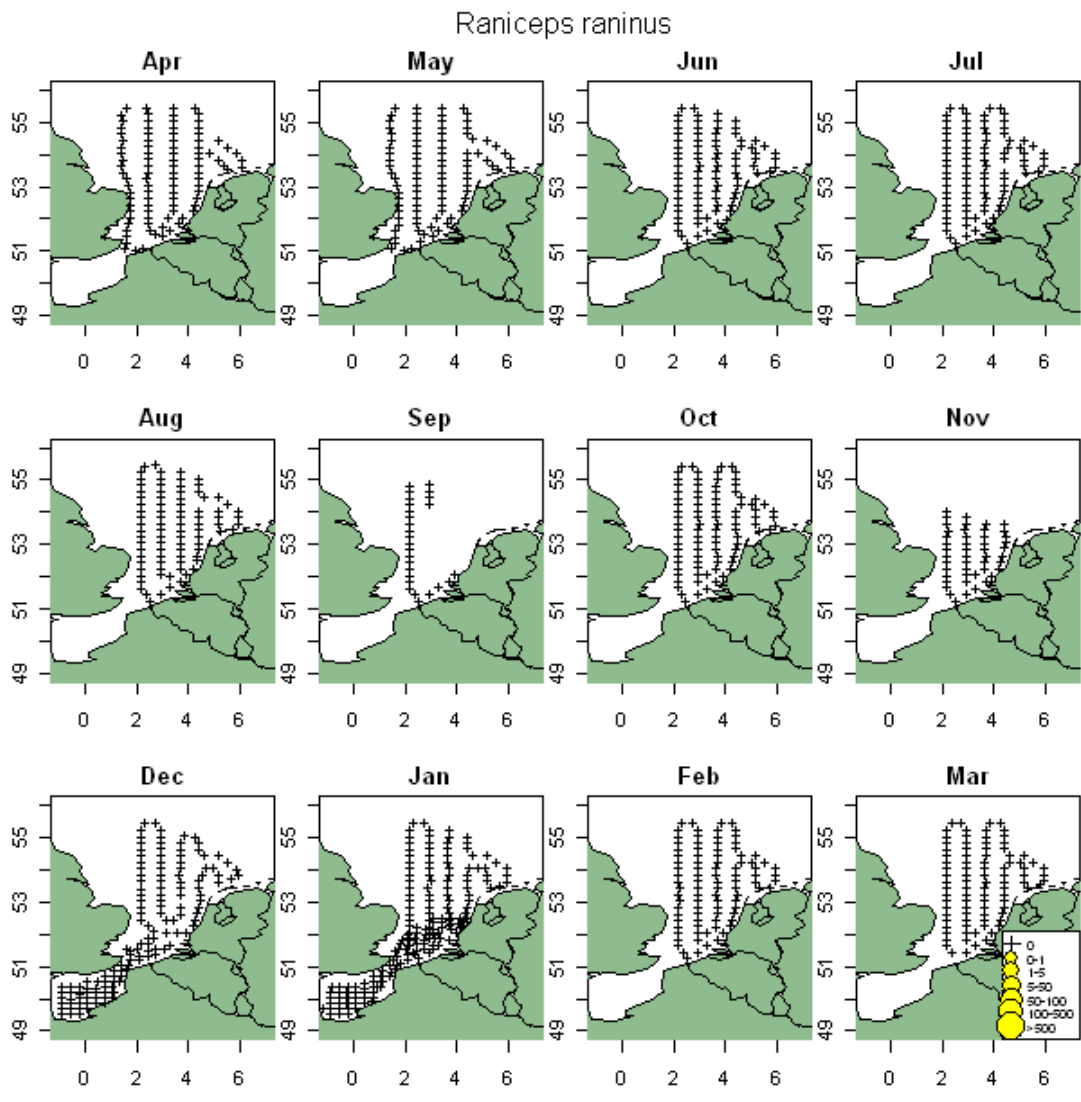


Figure 12b. Spatial and temporal distribution of stage 2 tadpole fish eggs.

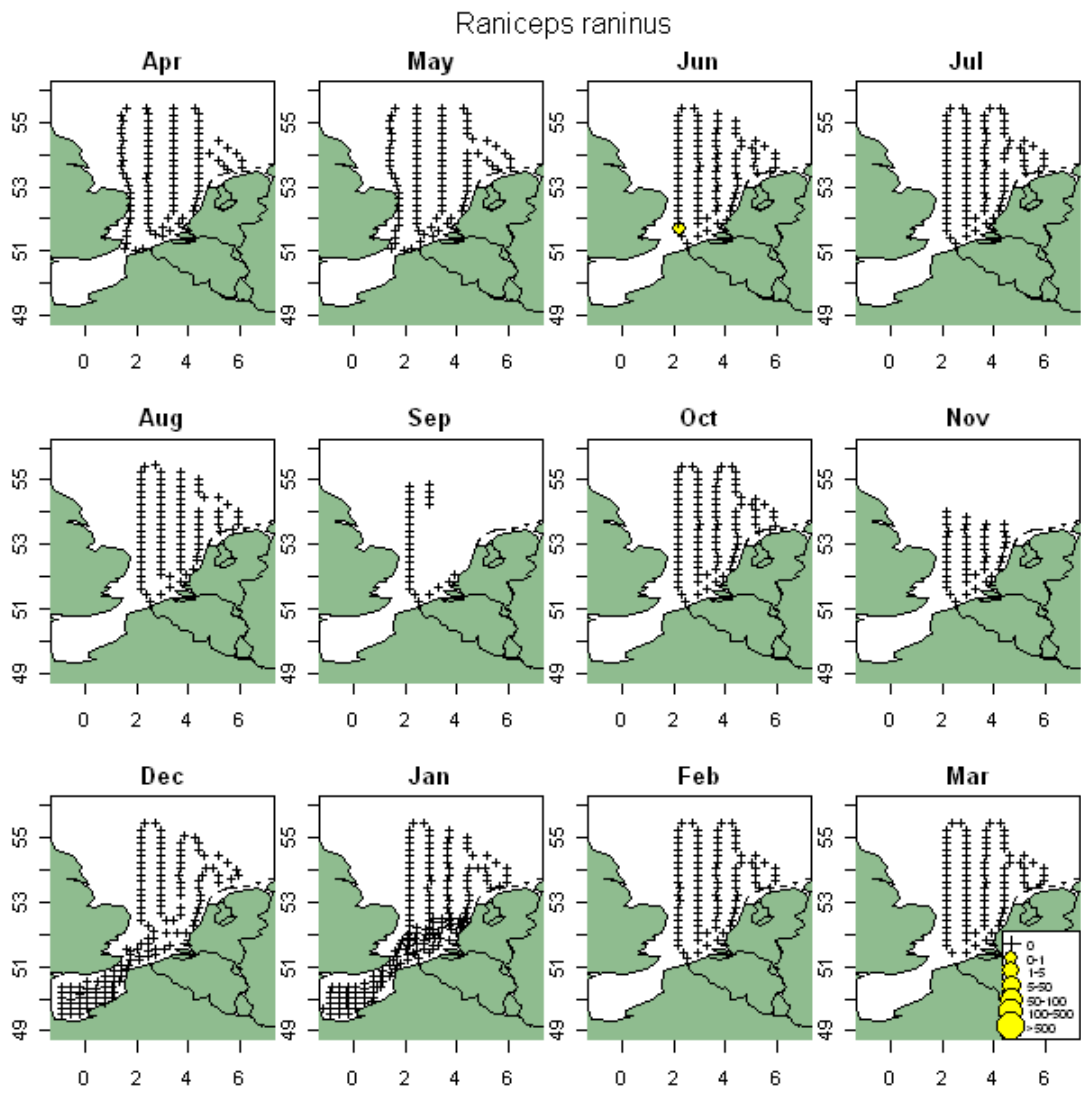


Figure 12c. Spatial and temporal distribution of stage 3 tadpole fish eggs.

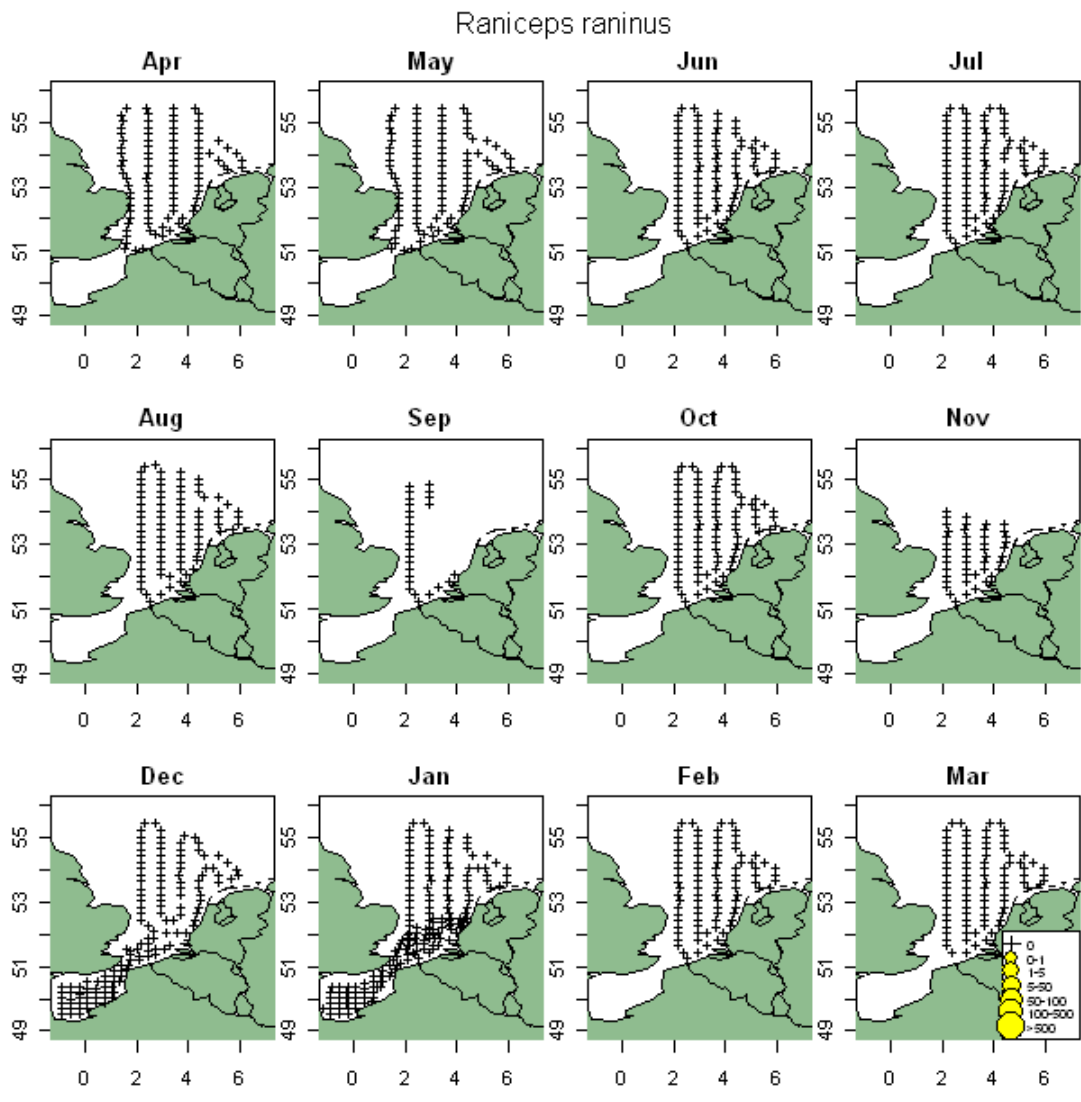


Figure 12d. Spatial and temporal distribution of stage 4 tadpole fish eggs.



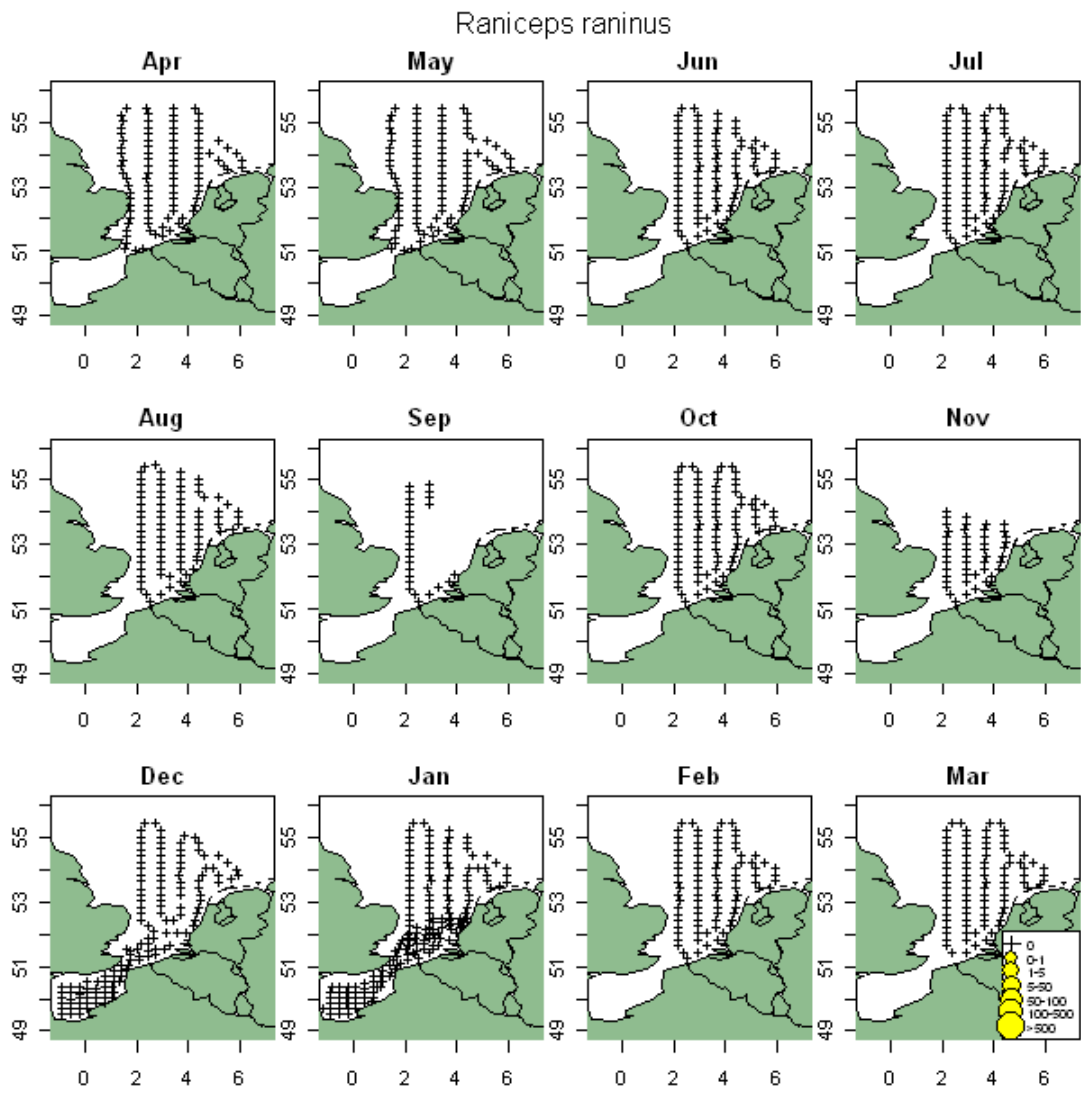


Figure 12e. Spatial and temporal distribution of stage 5 tadpole fish eggs.

## Rocklings

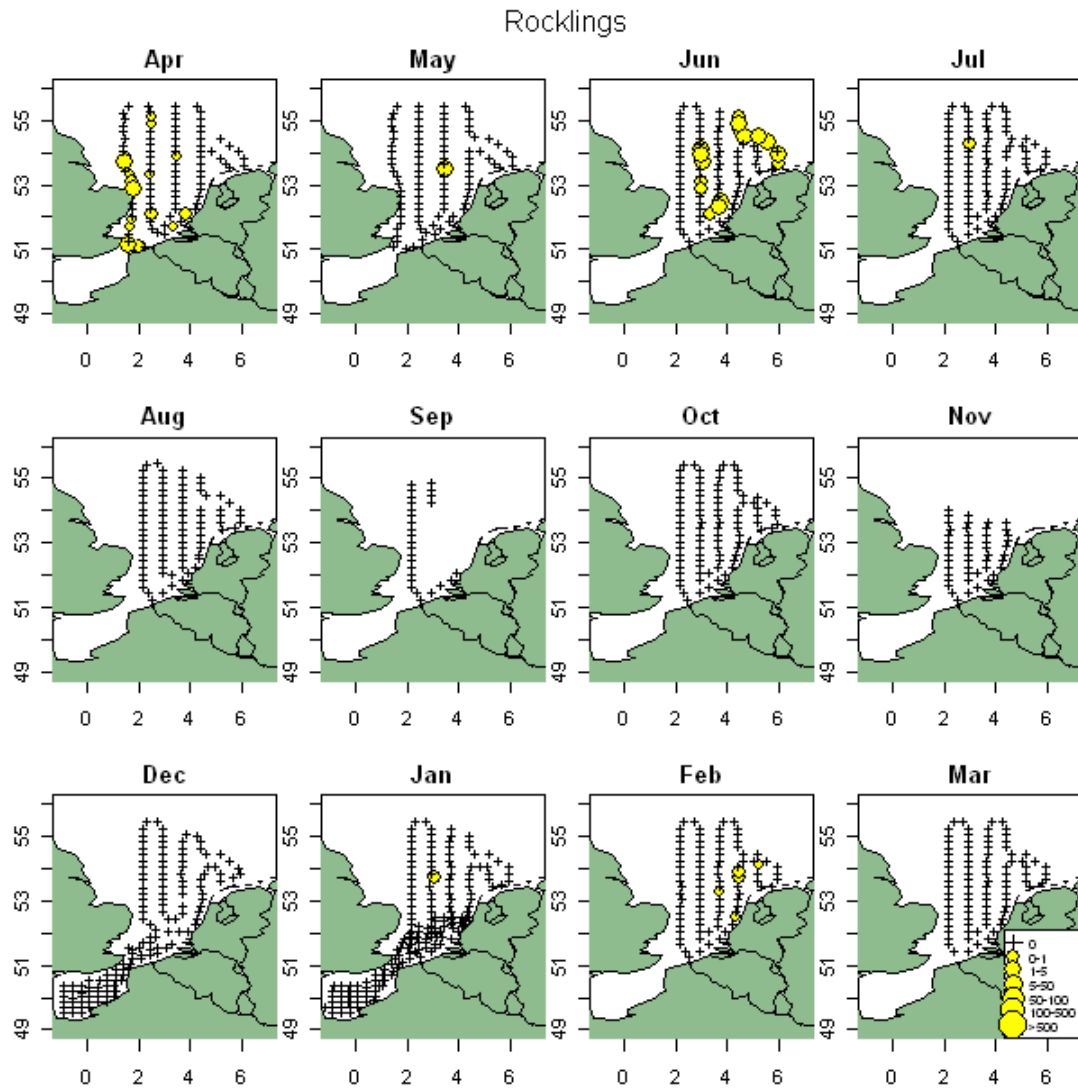


Figure 13a. Spatial and temporal distribution of stage 1 rockling eggs.

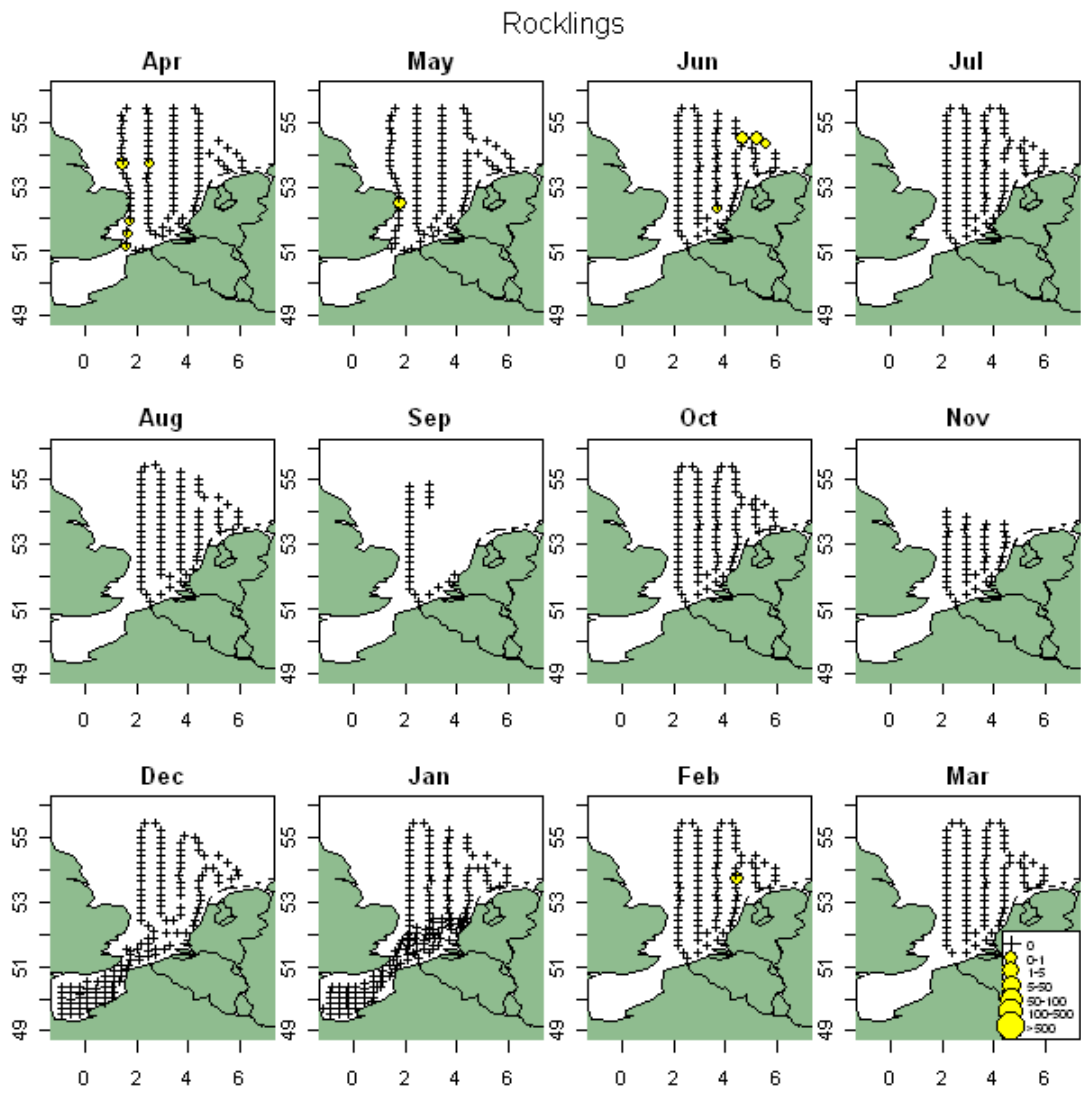


Figure 13b. Spatial and temporal distribution of stage 2 rockling eggs.

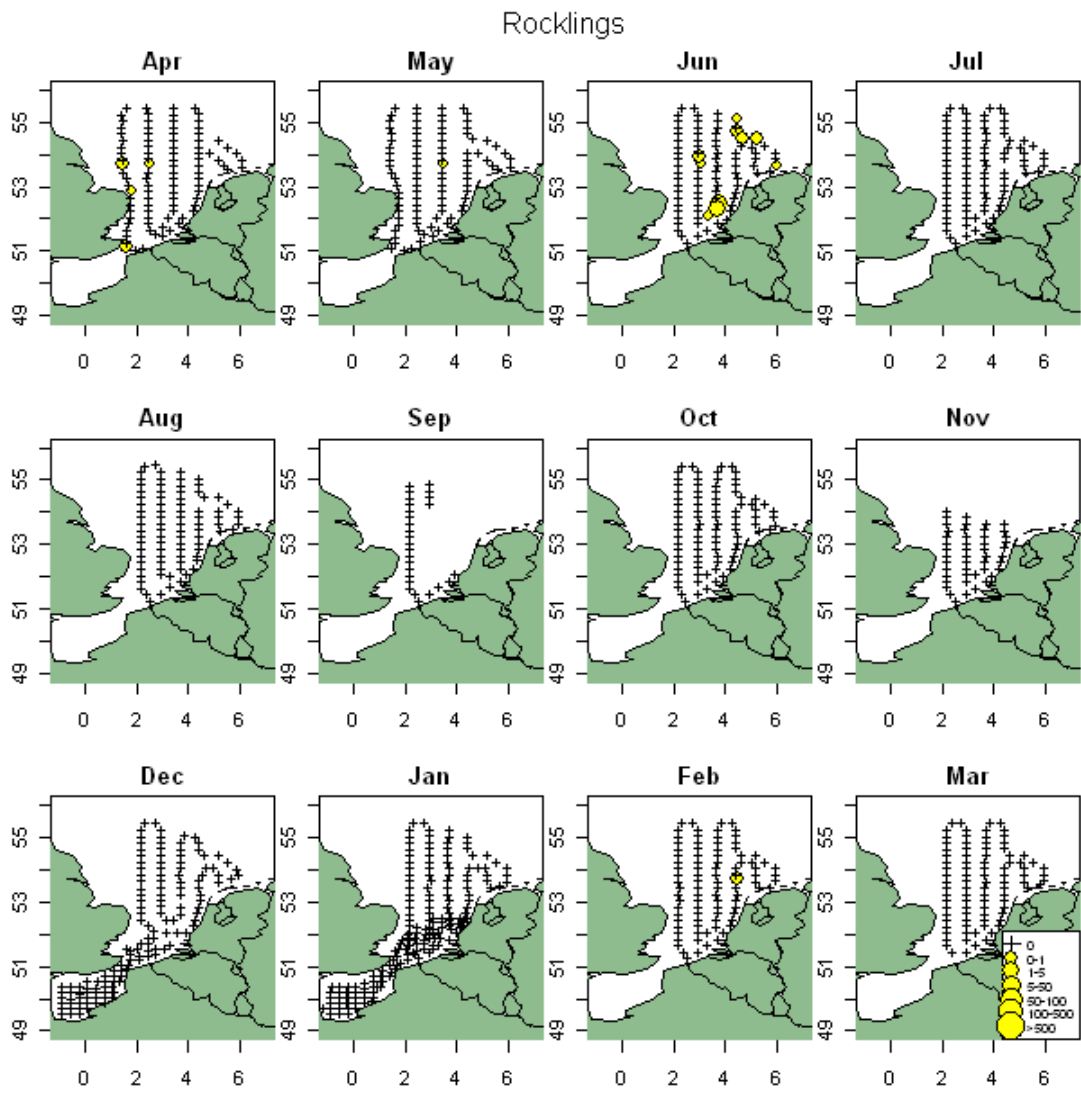


Figure 13c. Spatial and temporal distribution of stage 3 rockling eggs.

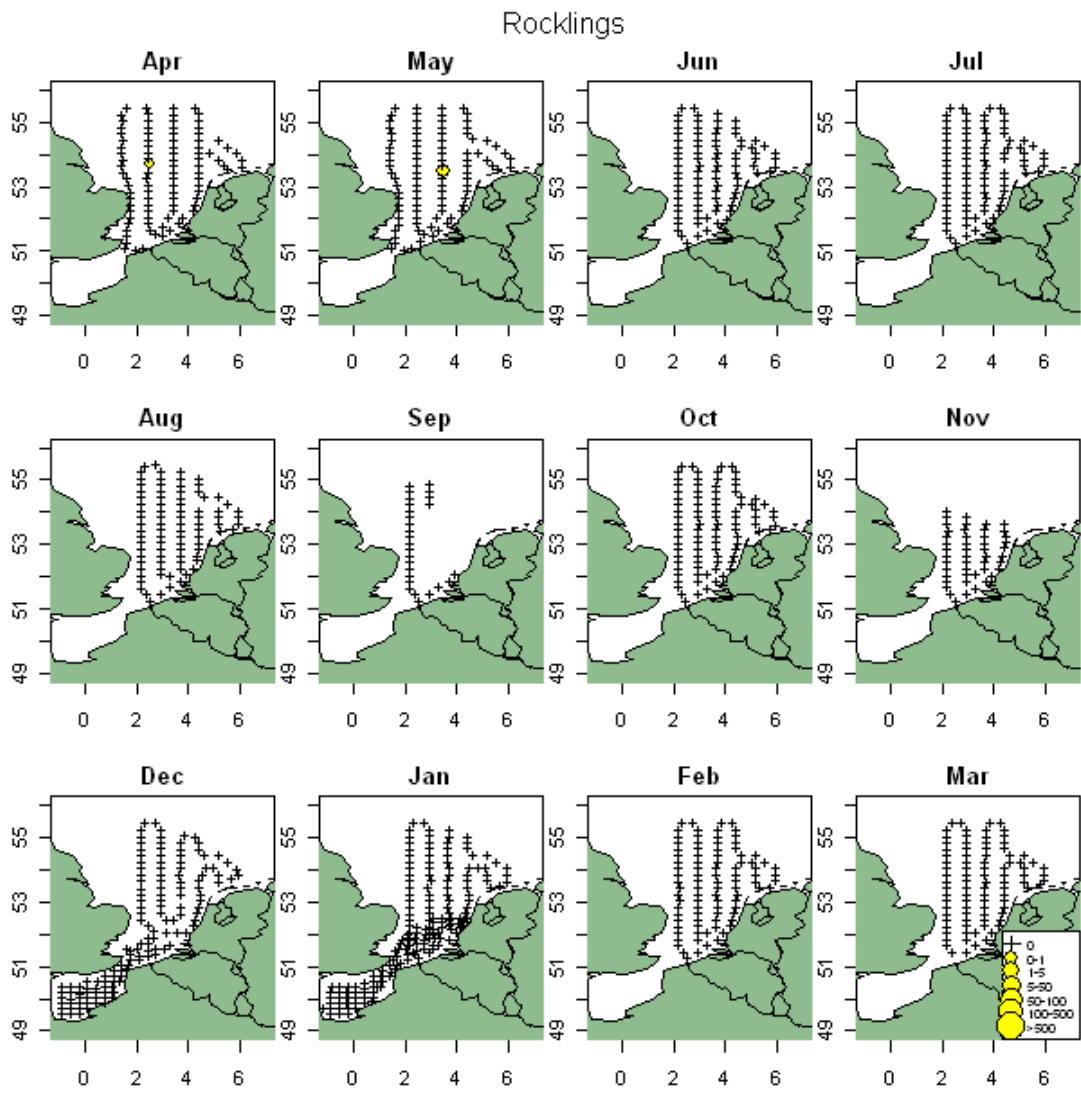


Figure 13d. Spatial and temporal distribution of stage 4 rockling eggs.

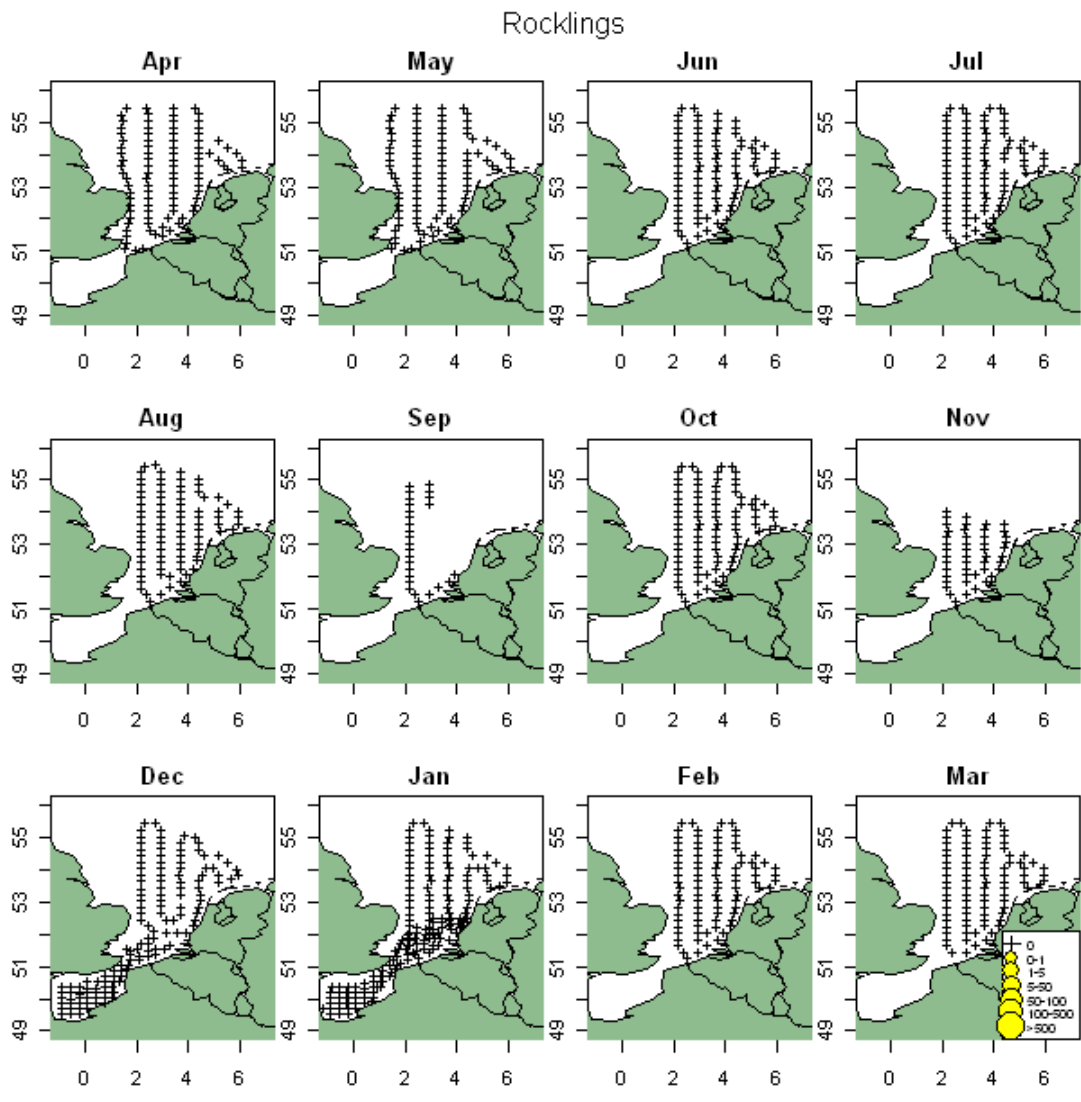


Figure 13e. Spatial and temporal distribution of stage 5 rockling eggs.

**Four-bearded rockling *Enchelyopus cimbrius***

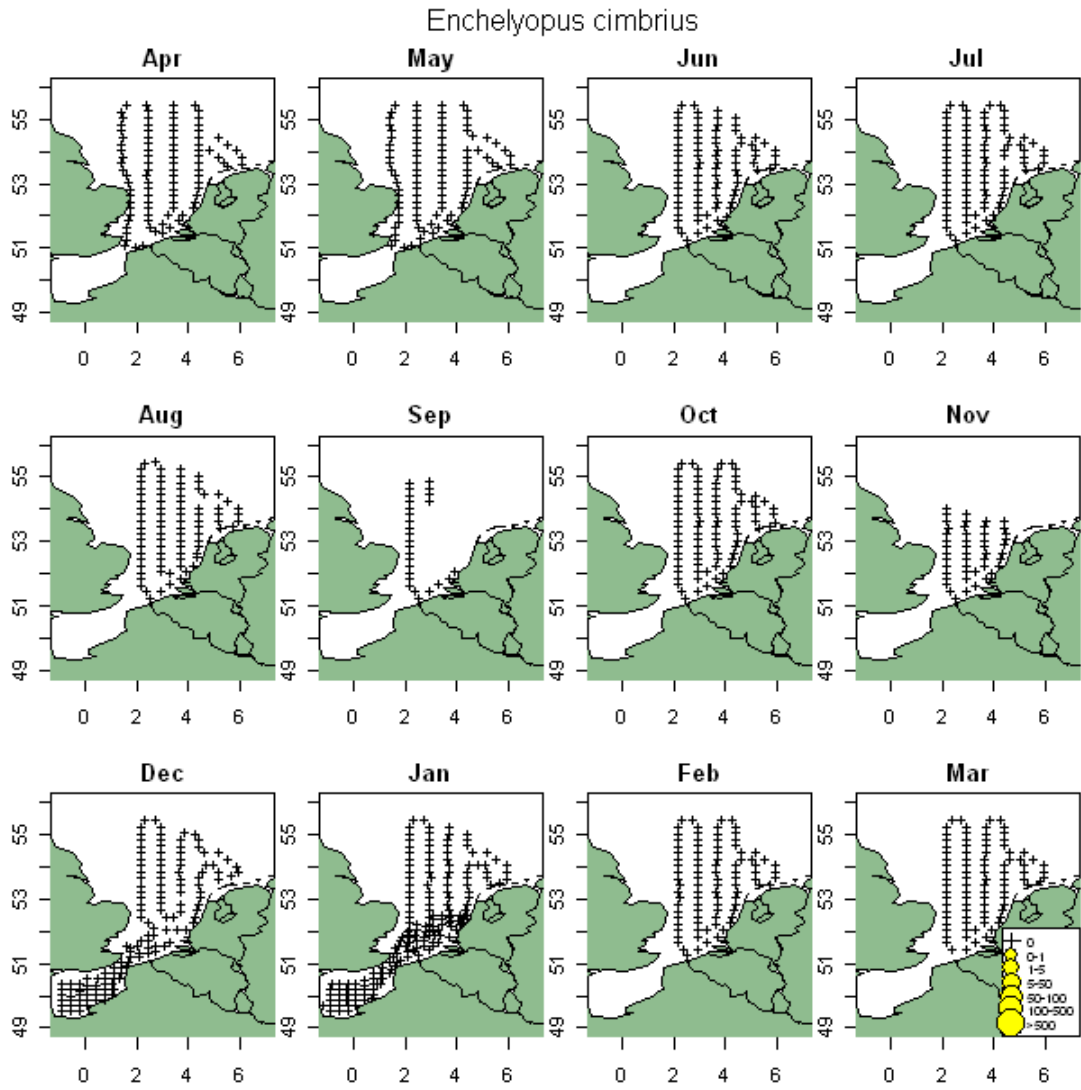


Figure 14a. Spatial and temporal distribution of yolk sac four-bearded rockling larvae.

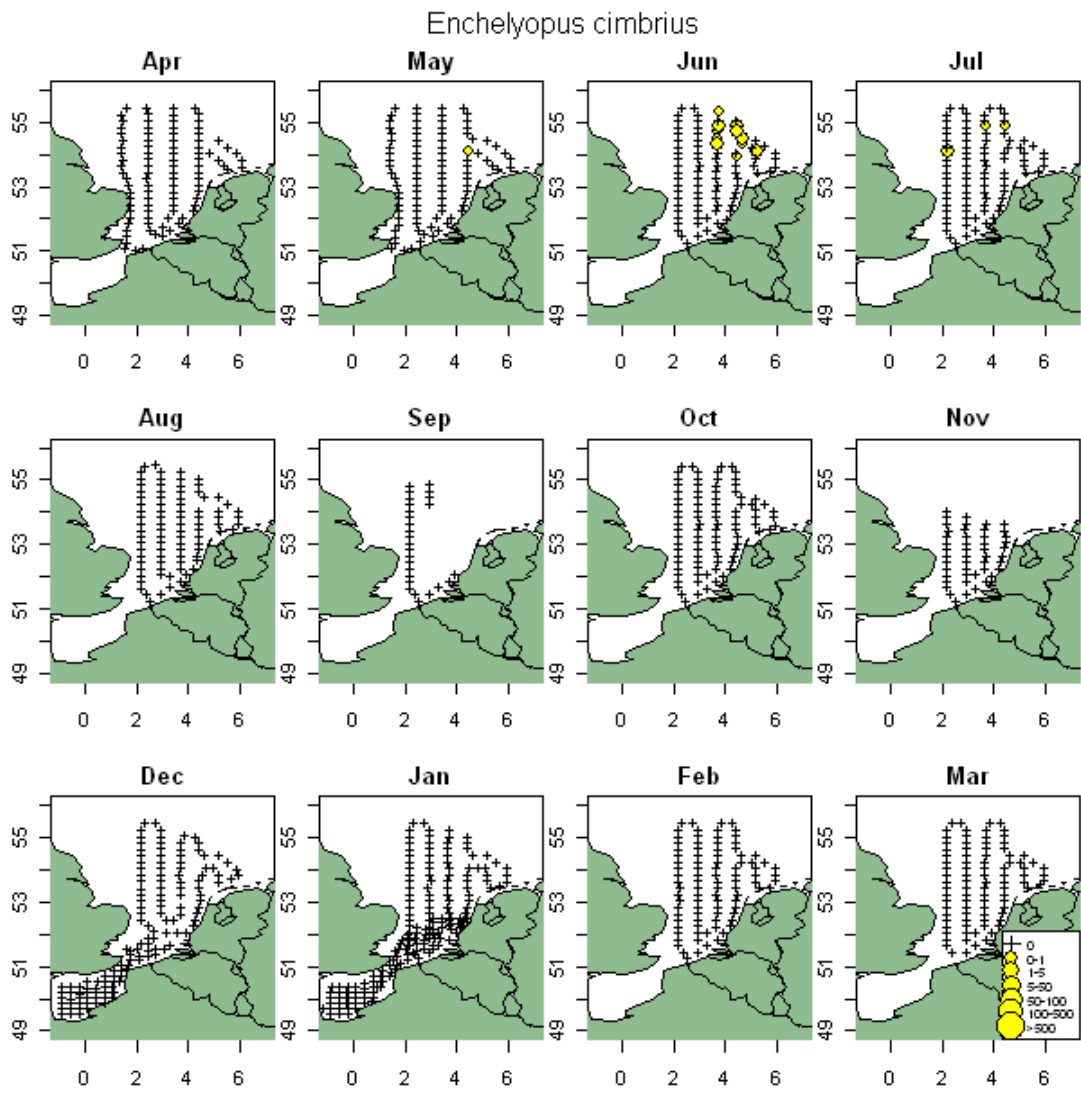


Figure 14b. Spatial and temporal distribution of non-yolk sac four-bearded rockling larvae.



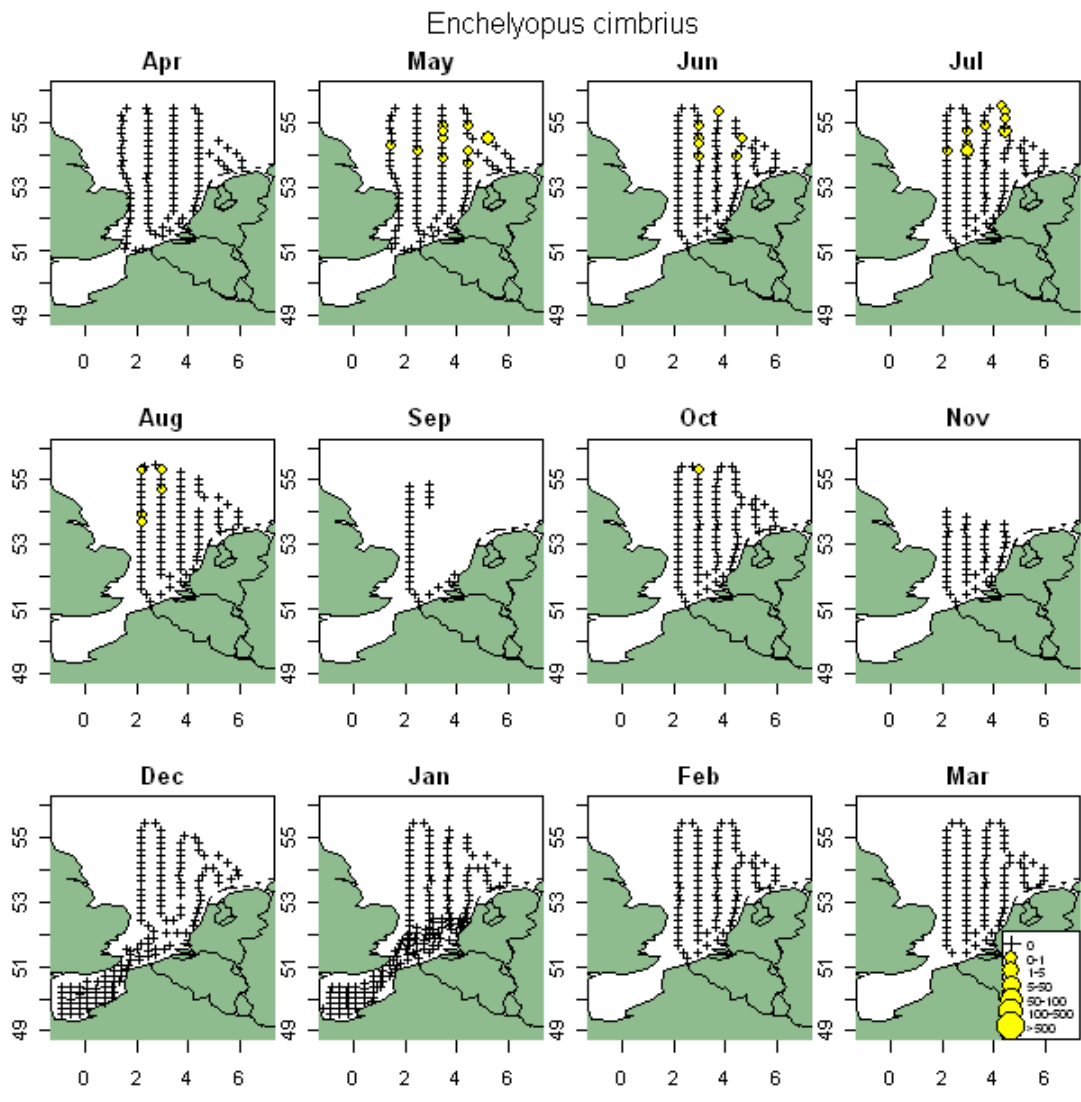


Figure 14c. Spatial and temporal distribution of bent notochord stage four-bearded rockling larvae.

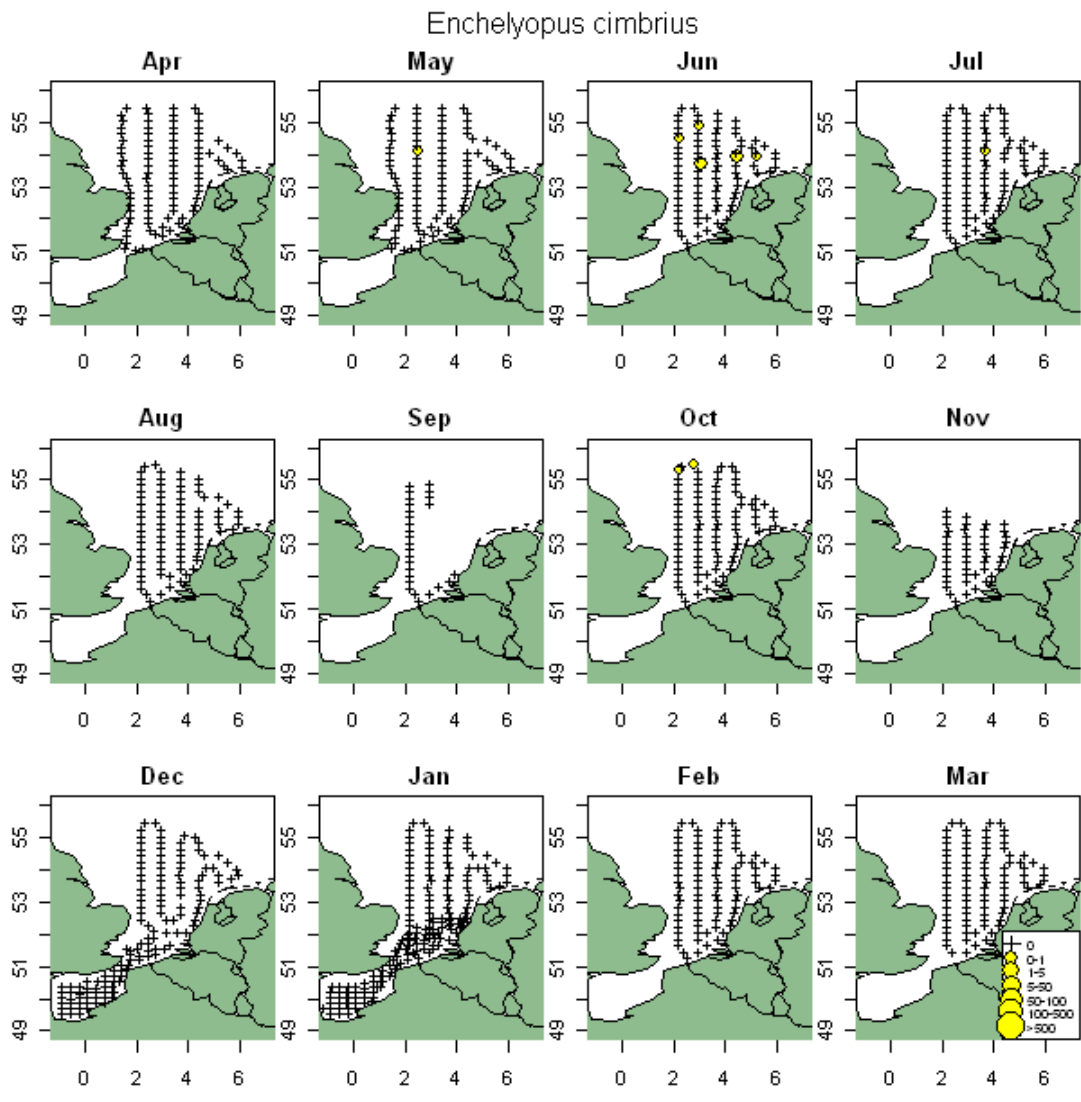


Figure 14d. Spatial and temporal distribution of metamorphosing four-bearded rockling larvae.

**Five-bearded rockling *Ciliata mustela***

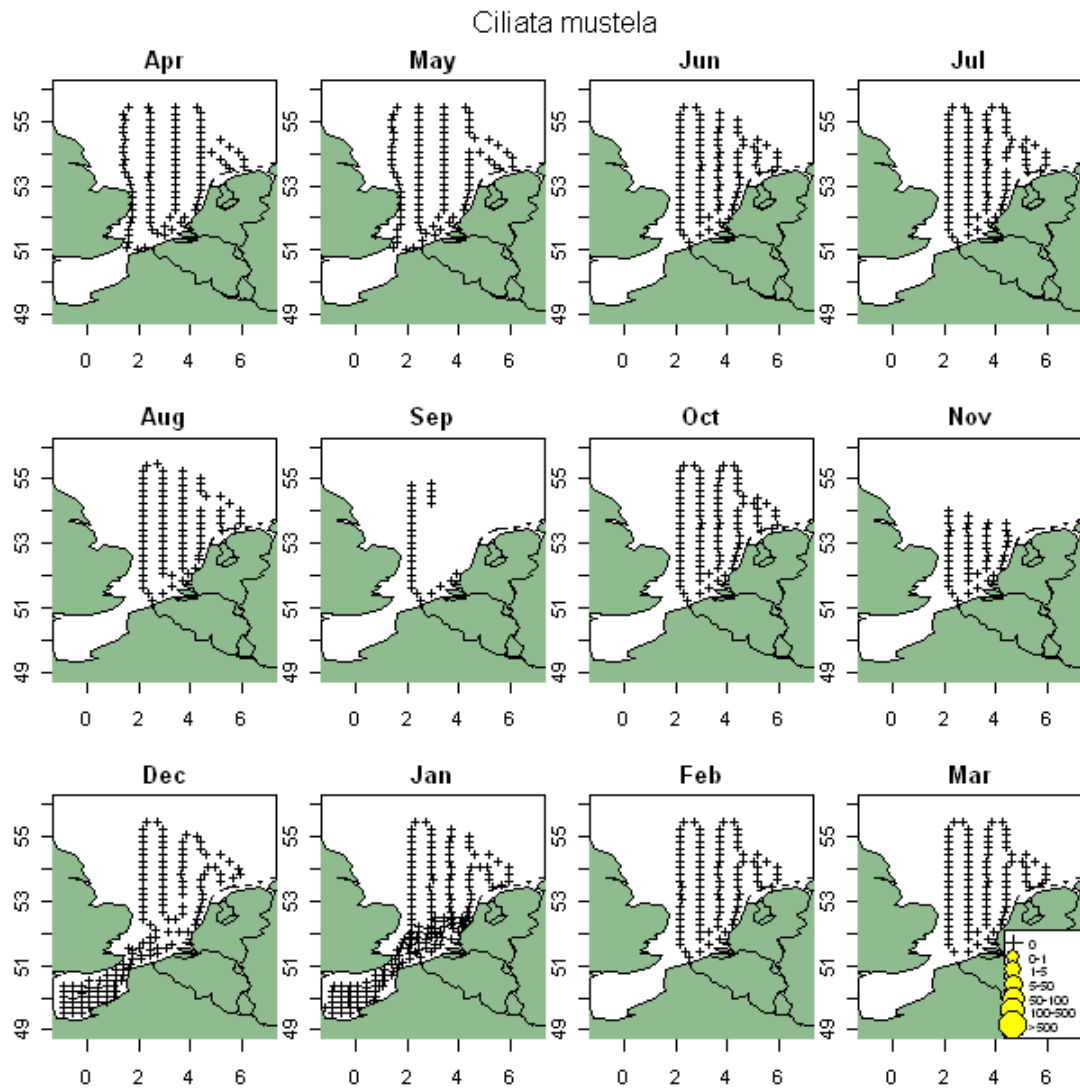


Figure 15a. Spatial and temporal distribution of yolk sac five-bearded rockling larvae.

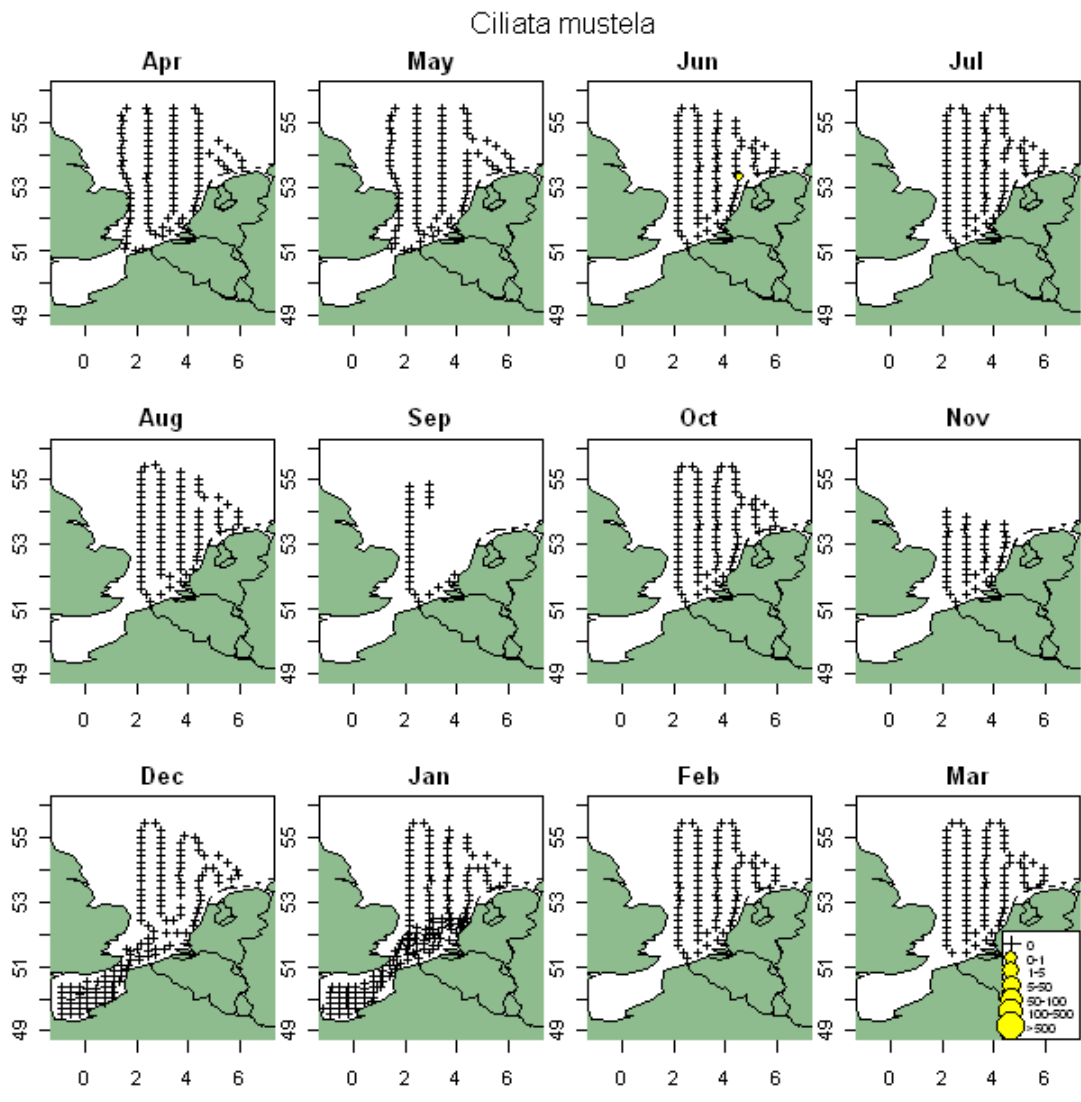


Figure 15b. Spatial and temporal distribution of non-yolk sac five-bearded rockling larvae.

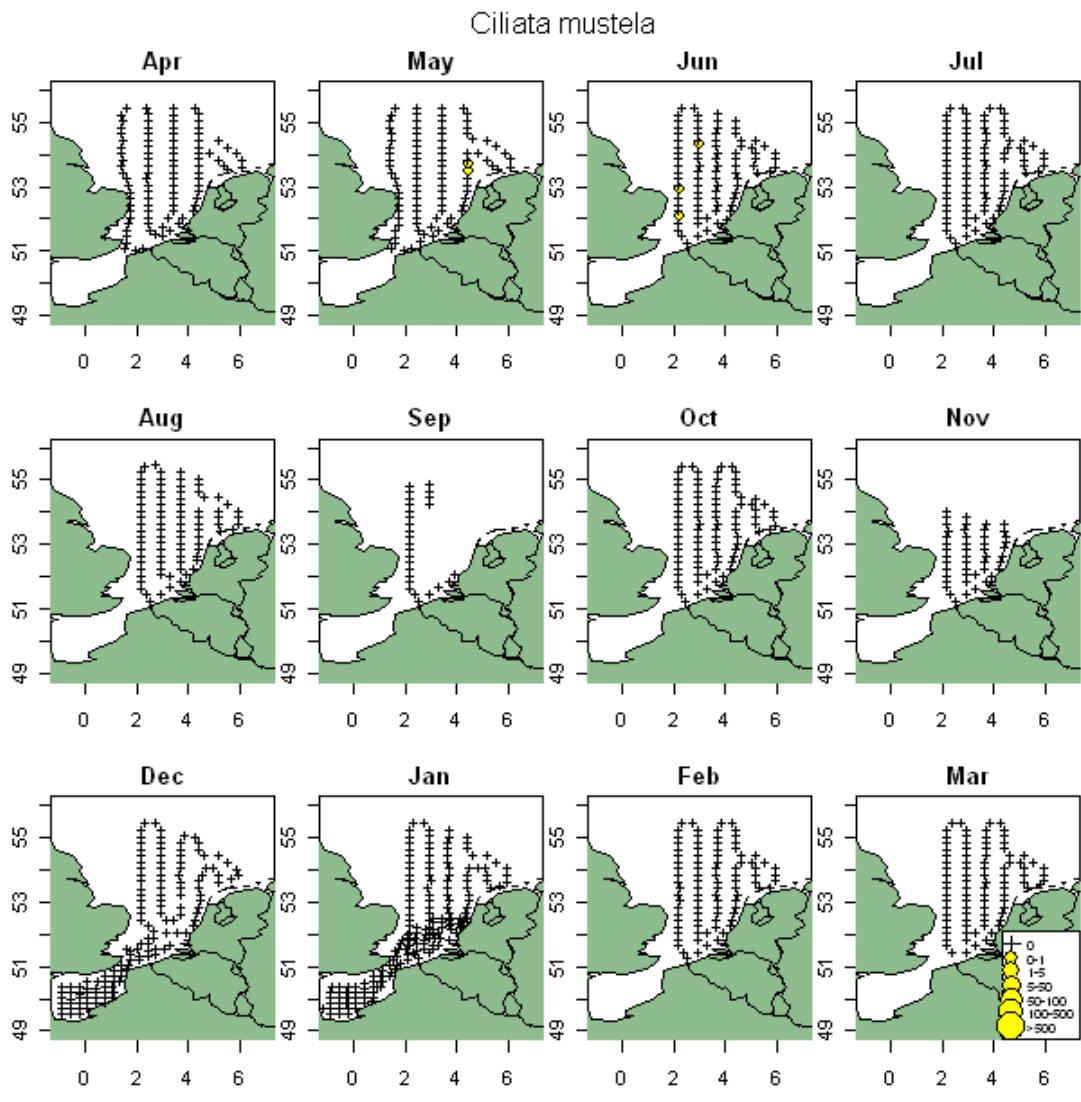


Figure 15c. Spatial and temporal distribution of bent notochord stage five-bearded rockling larvae.

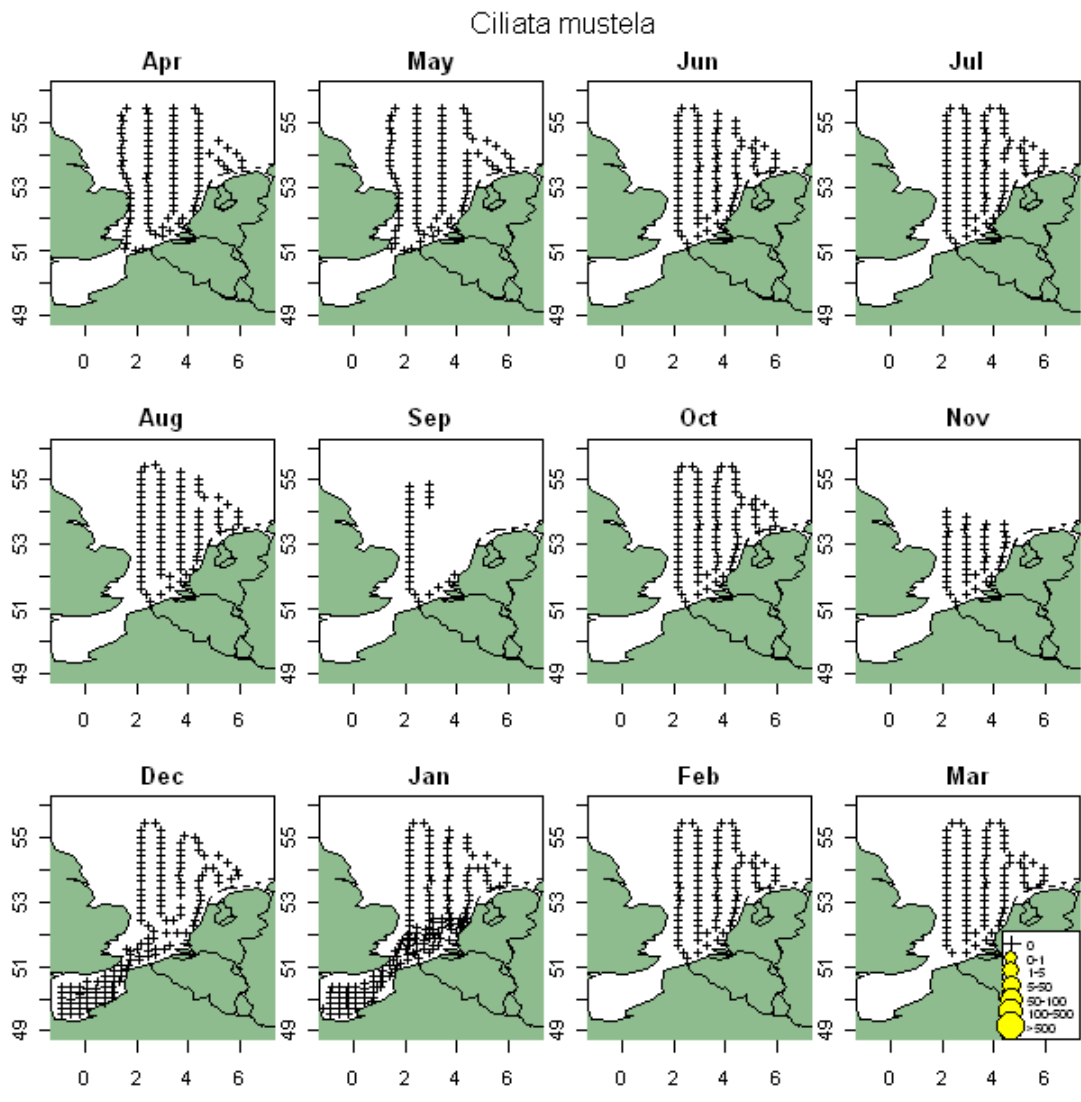


Figure 15d. Spatial and temporal distribution of metamorphosing five-bearded rockling larvae.

**European seabass *Dicentrarchus labrax***

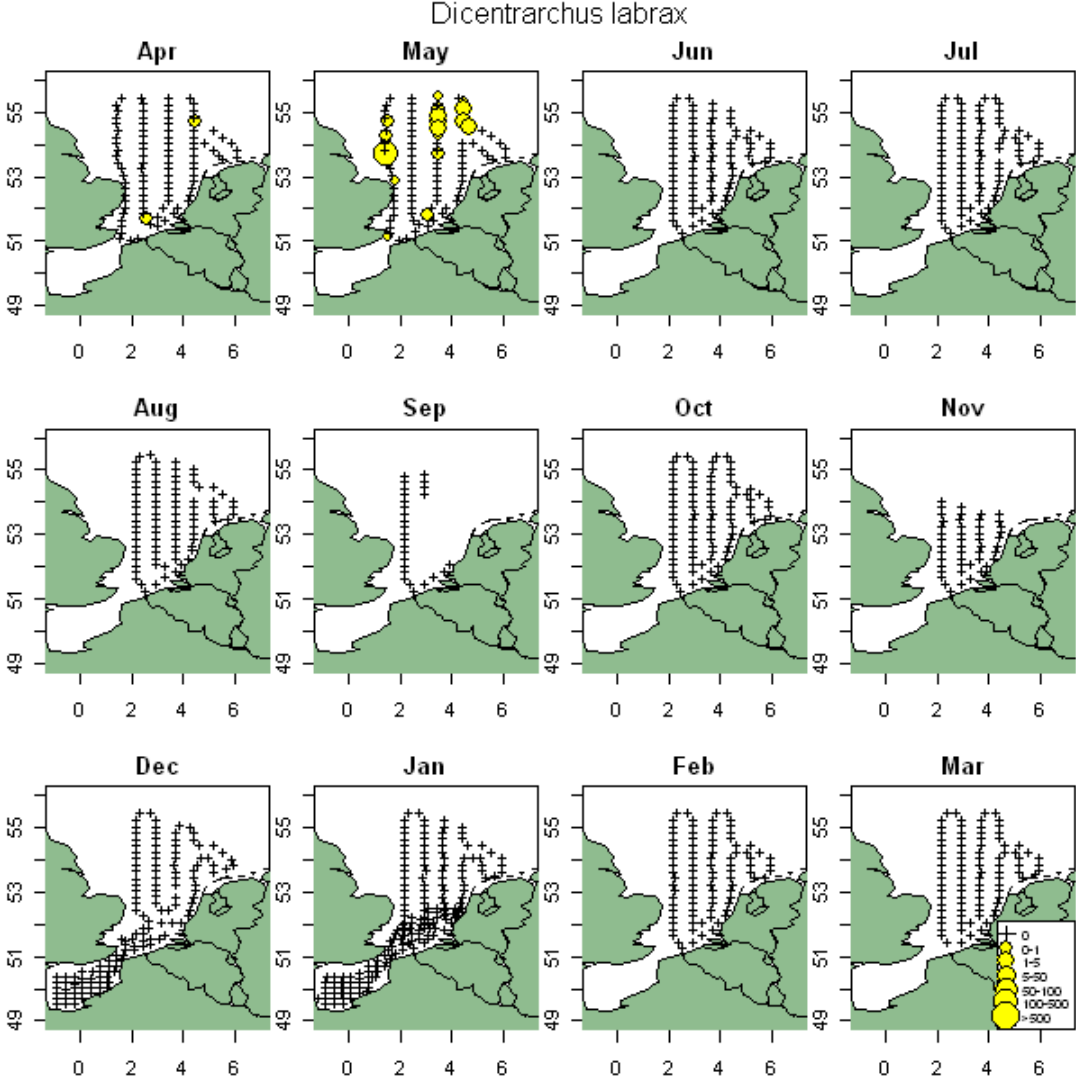


Figure 16a. Spatial and temporal distribution of stage 1 European seabass eggs.

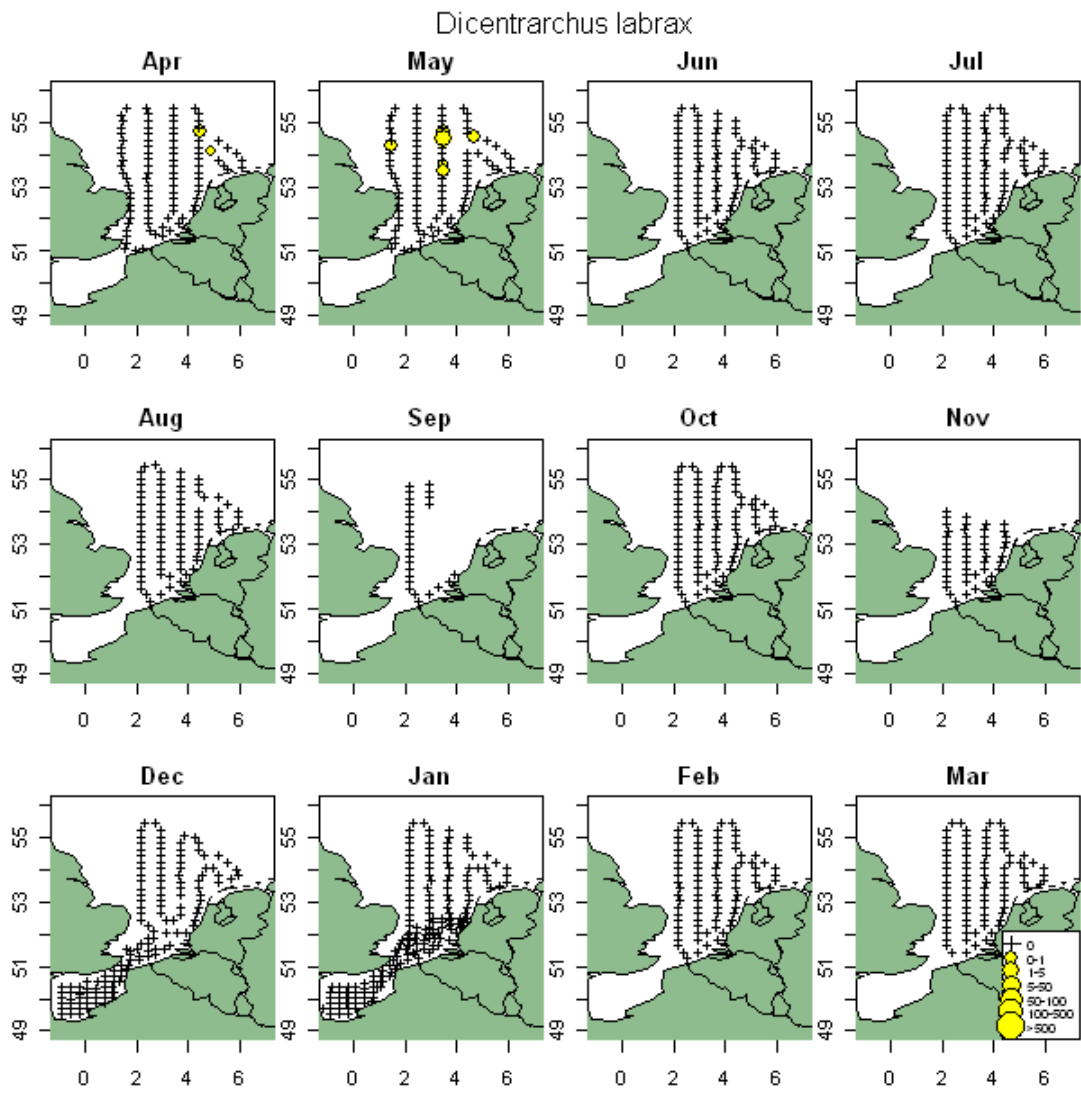


Figure 16b. Spatial and temporal distribution of stage 2 European seabass eggs.



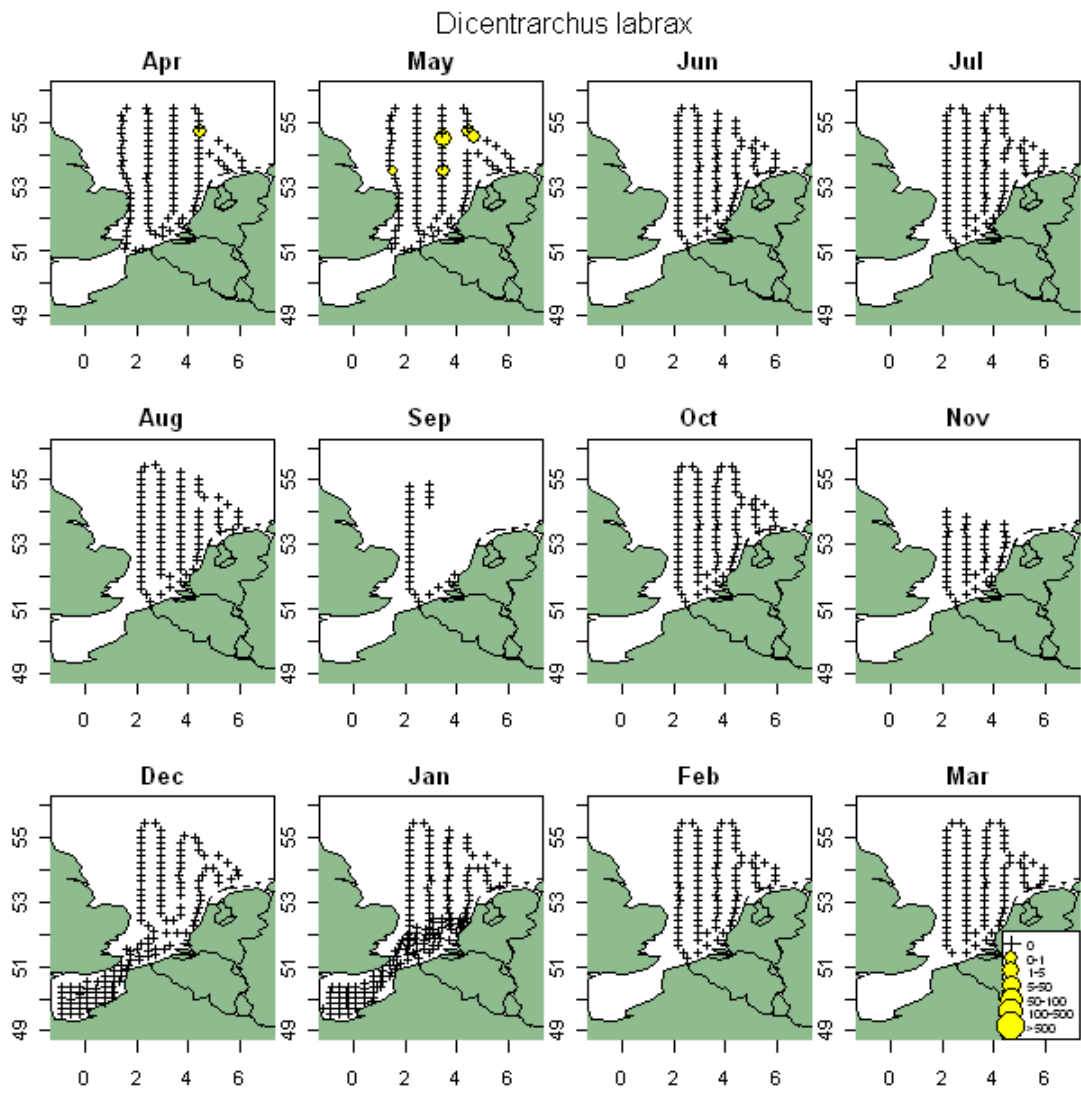


Figure 16c. Spatial and temporal distribution of stage 3 European seabass eggs.

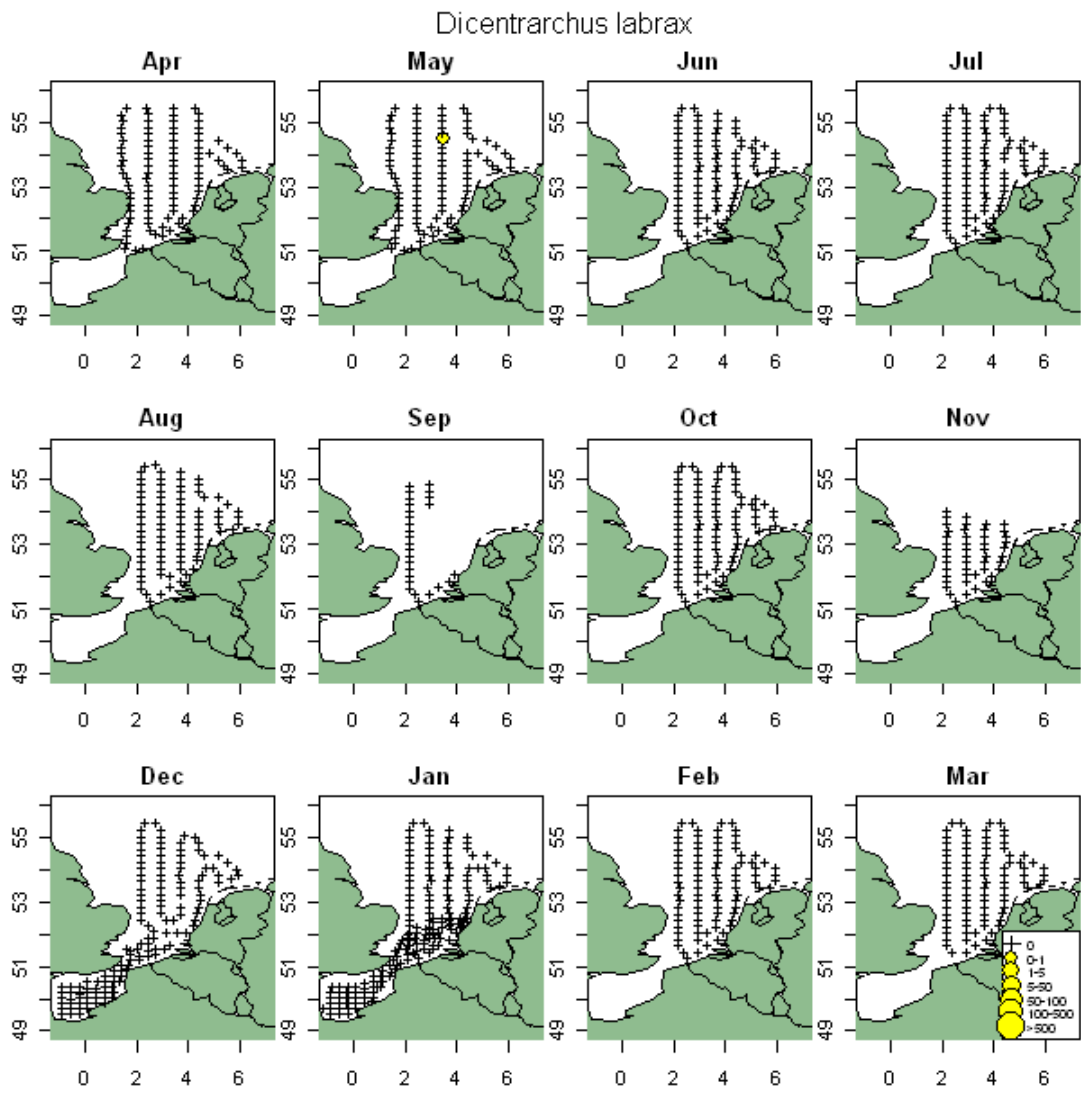


Figure 16d. Spatial and temporal distribution of stage 4 European seabass eggs.

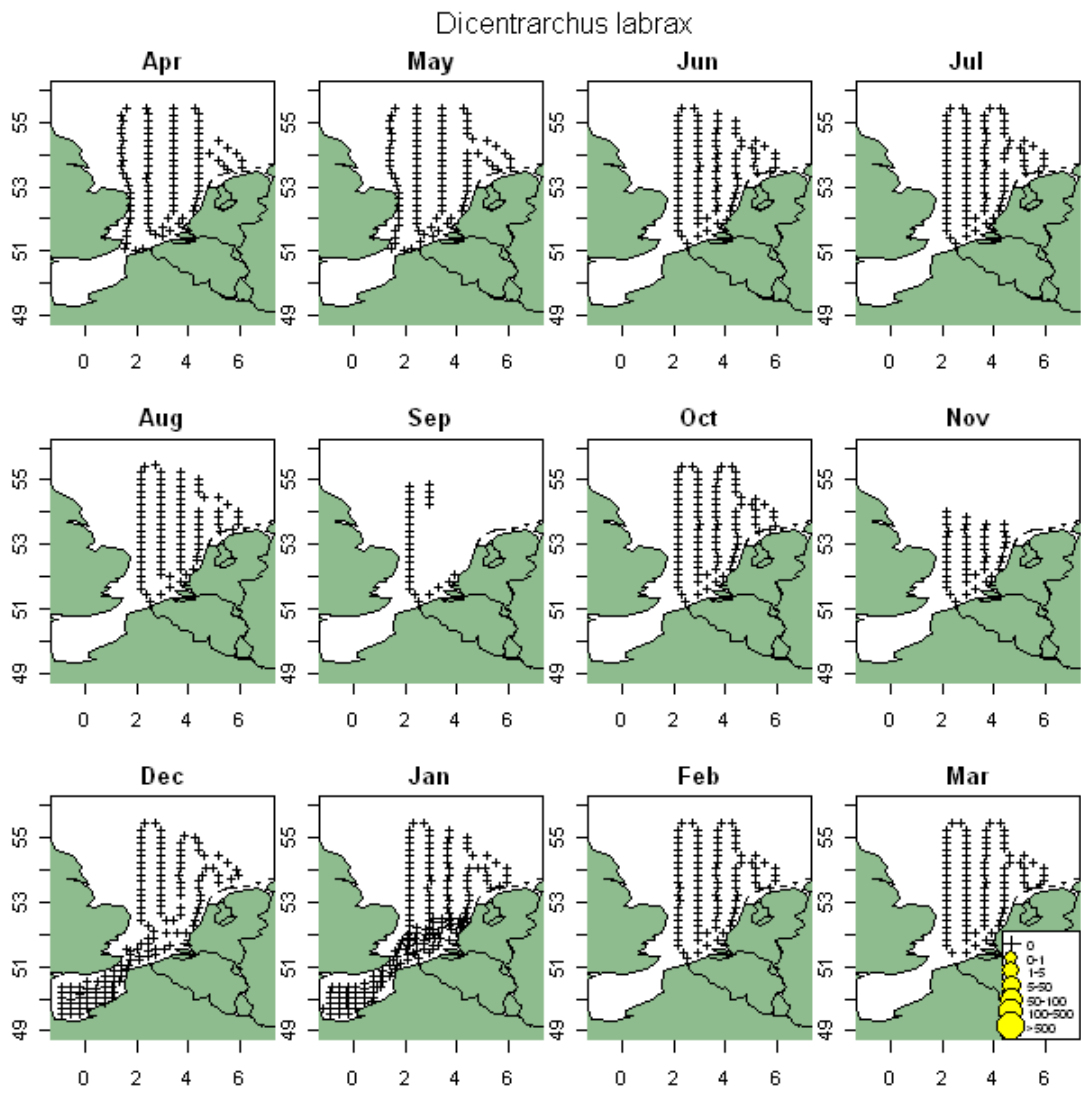


Figure 16e. Spatial and temporal distribution of stage 5 European seabass eggs.

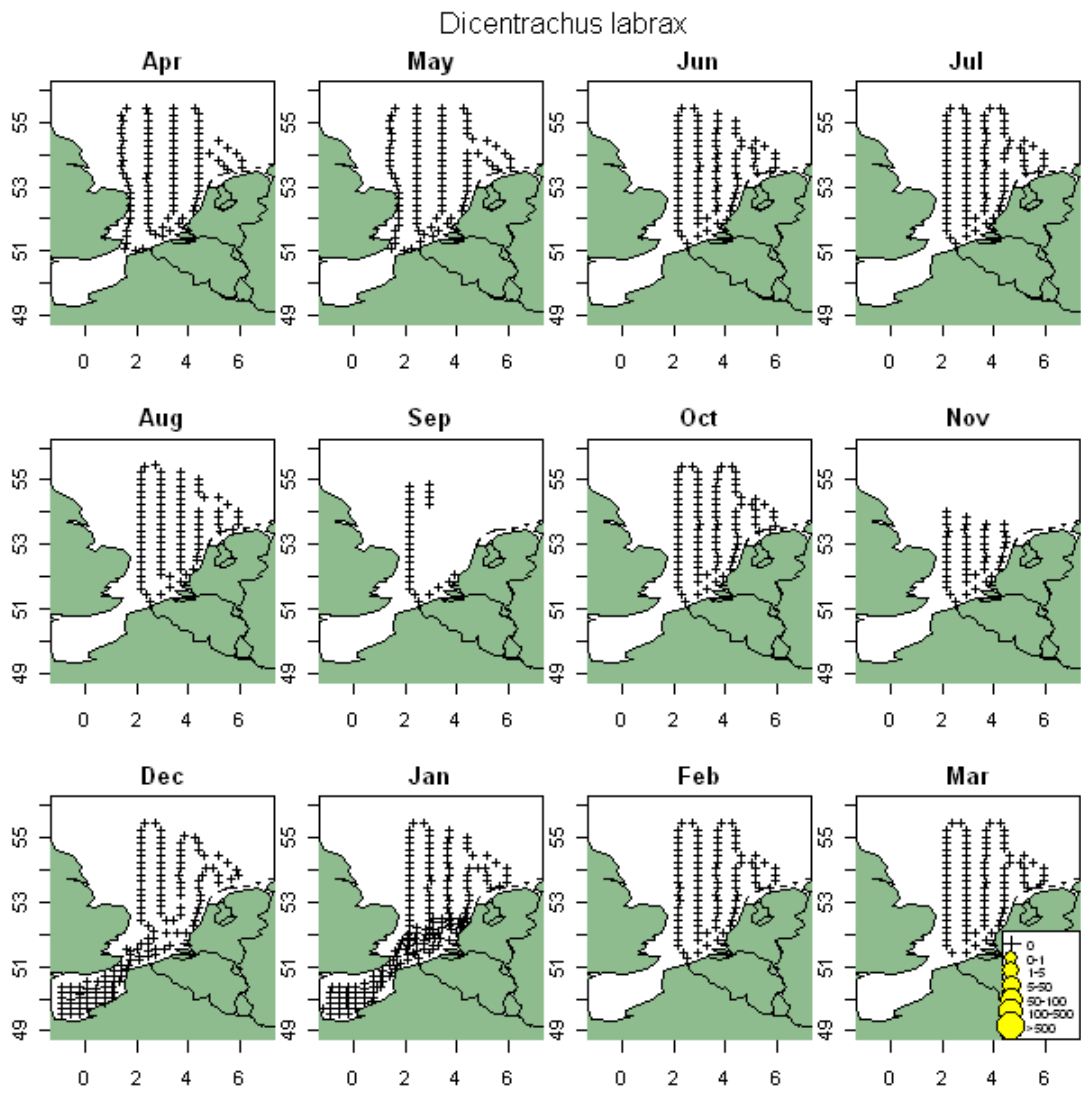


Figure 16f. Spatial and temporal distribution of yolk sac European seabass larvae.

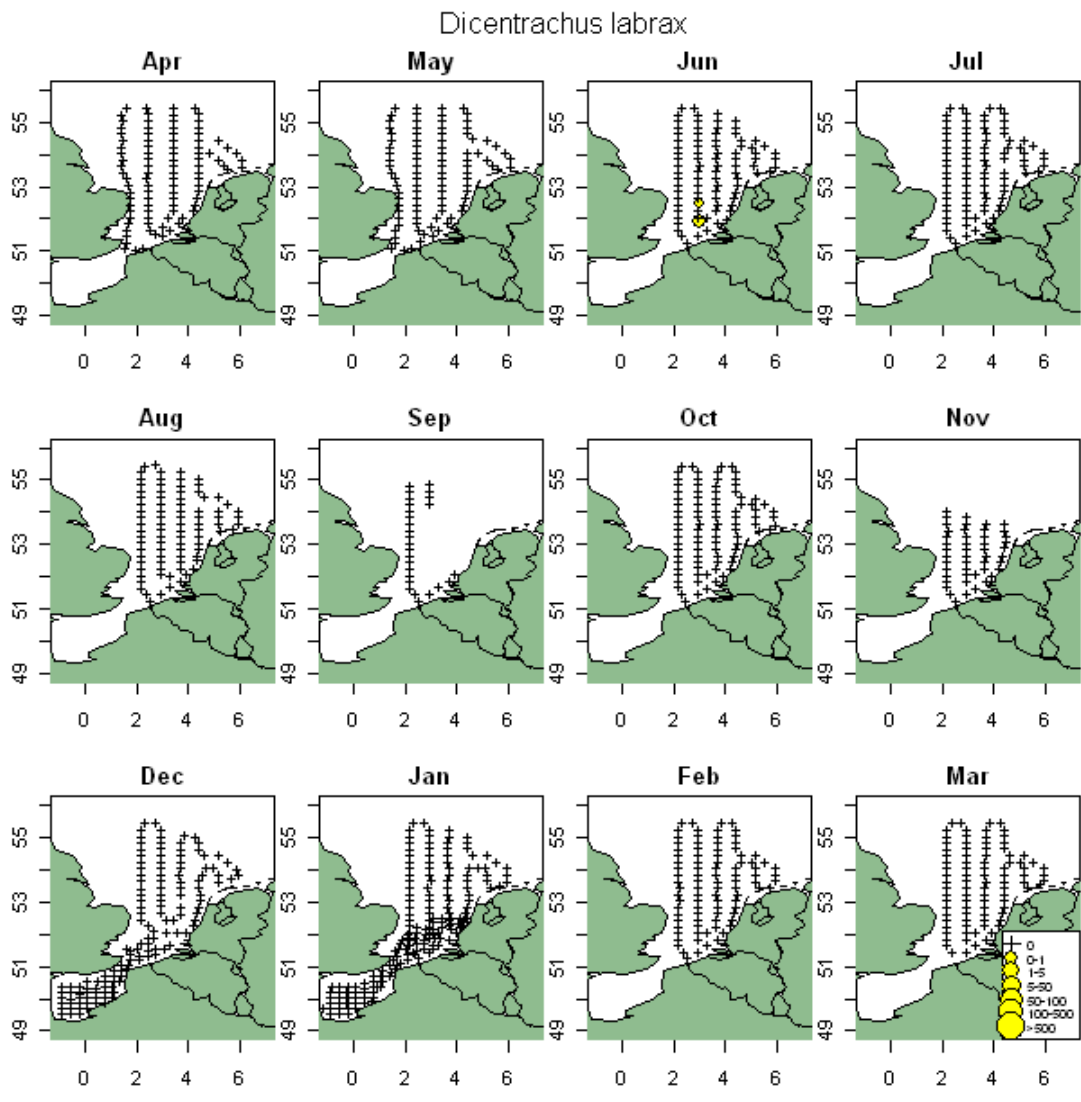


Figure 16g. Spatial and temporal distribution of non-yolk sac European seabass larvae.

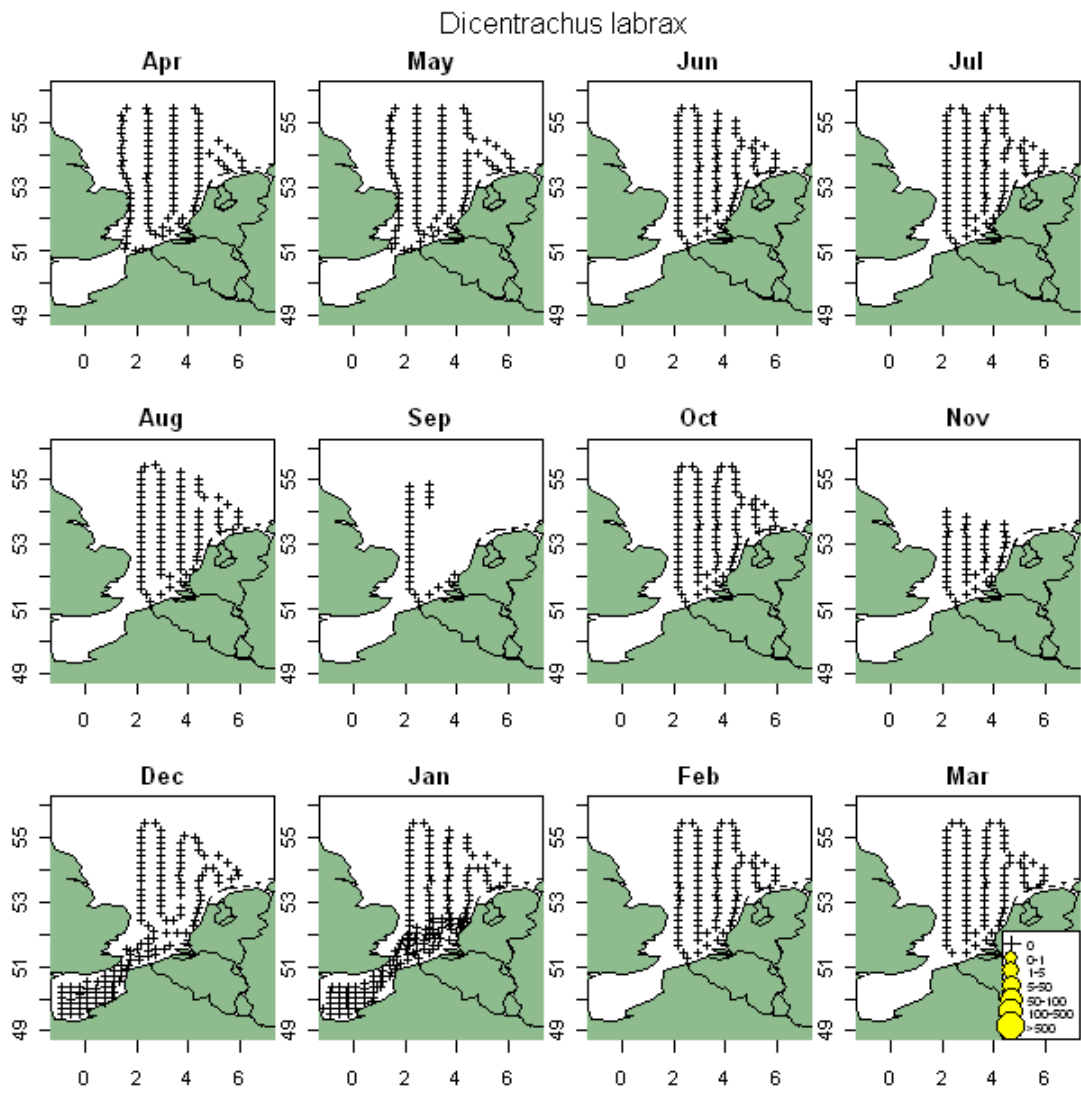


Figure 16h. Spatial and temporal distribution of bent notochord stage European seabass larvae.

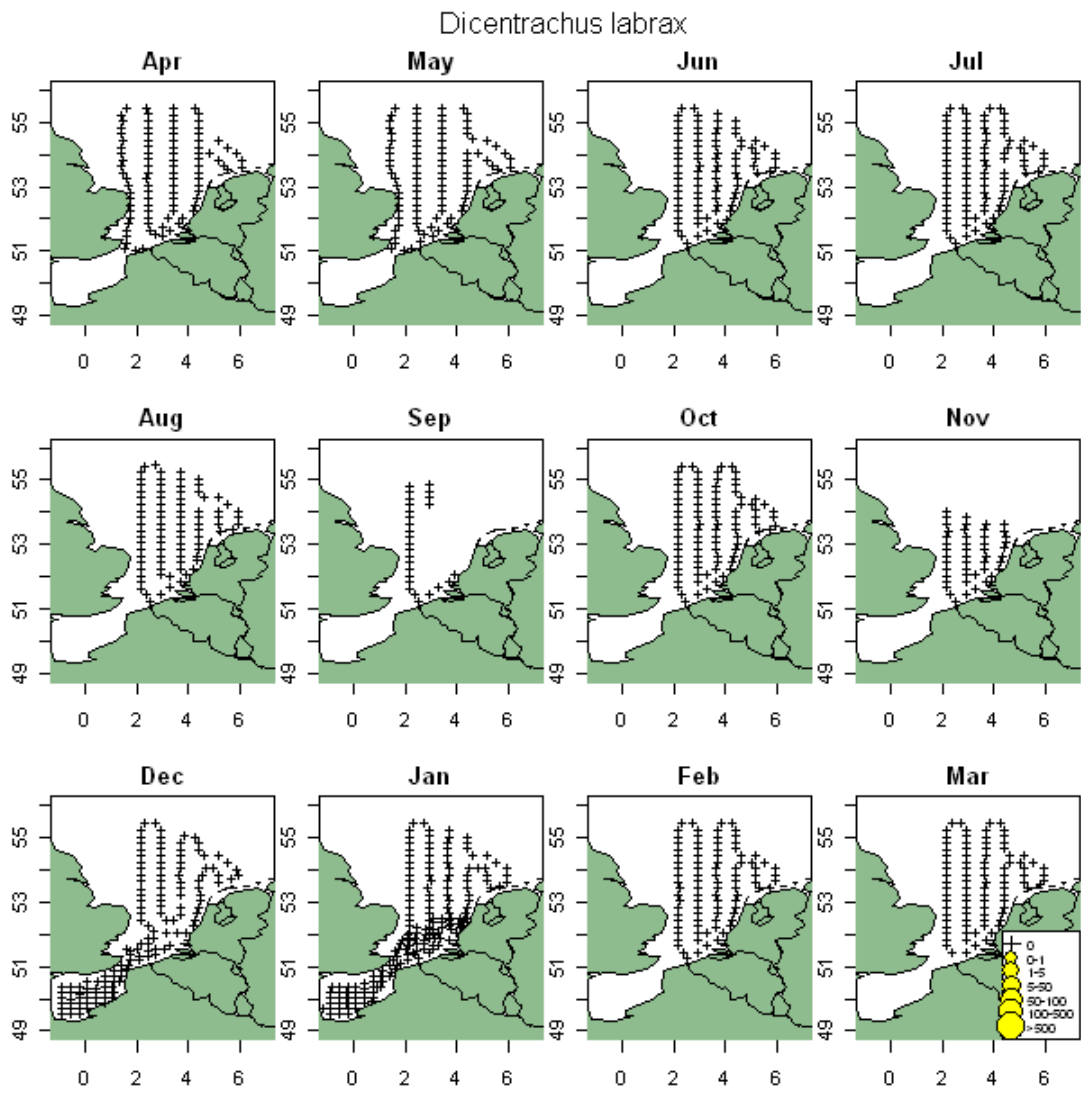


Figure 16i. Spatial and temporal distribution of metamorphosing European seabass larvae.

**Horse mackerel *Trachurus trachurus***

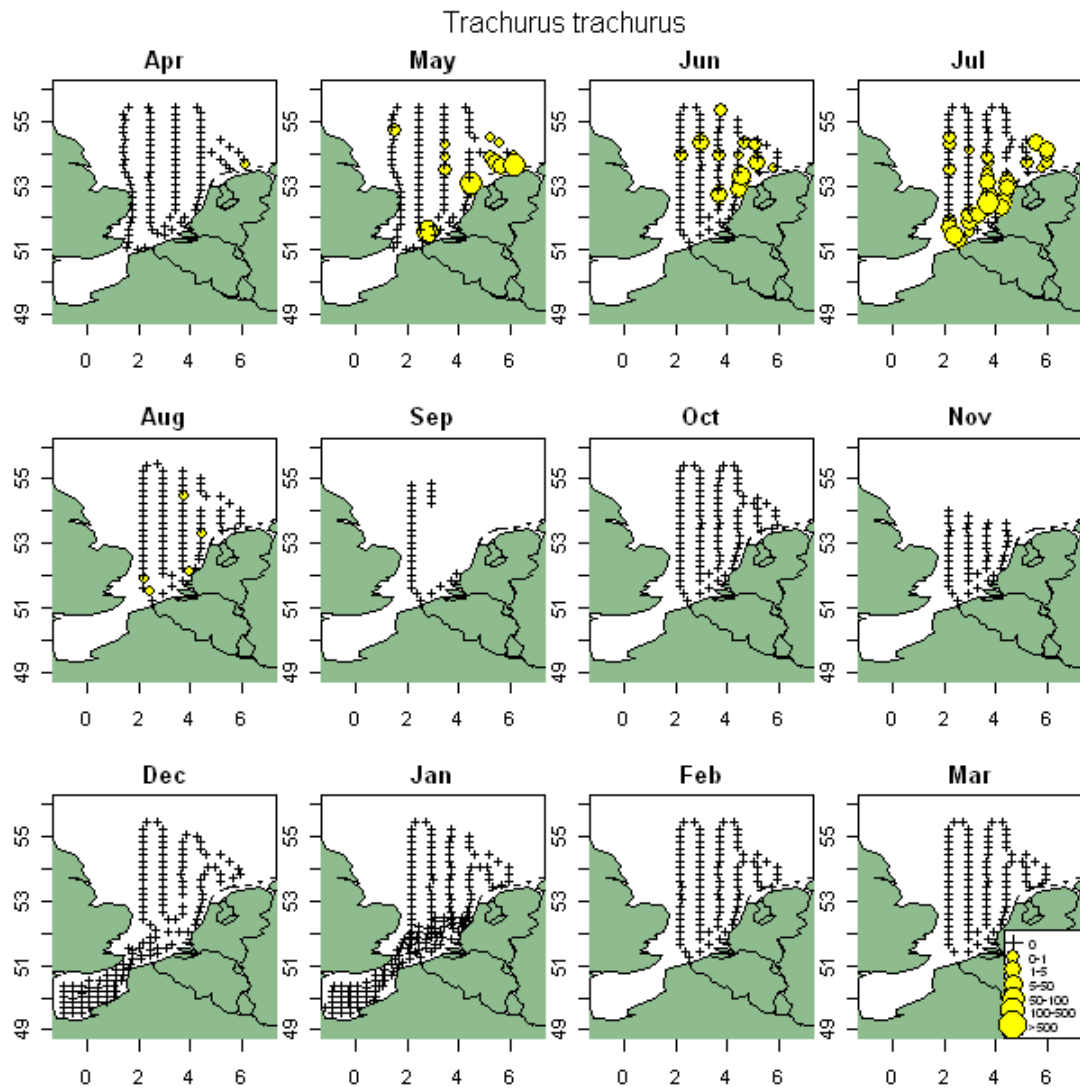


Figure 17a. Spatial and temporal distribution of stage 1 horse mackerel eggs.



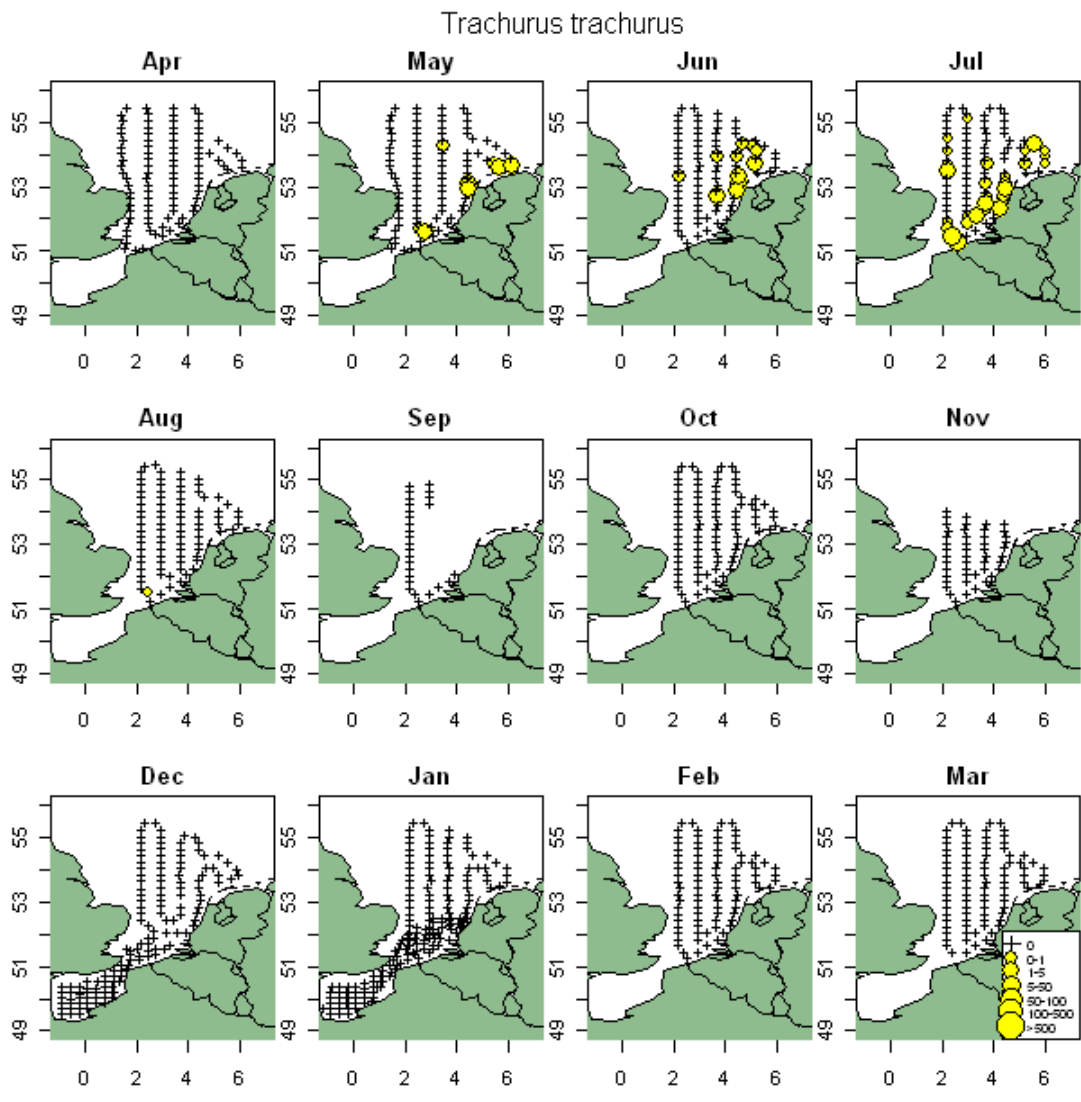


Figure 17b. Spatial and temporal distribution of stage 2 horse mackerel eggs.

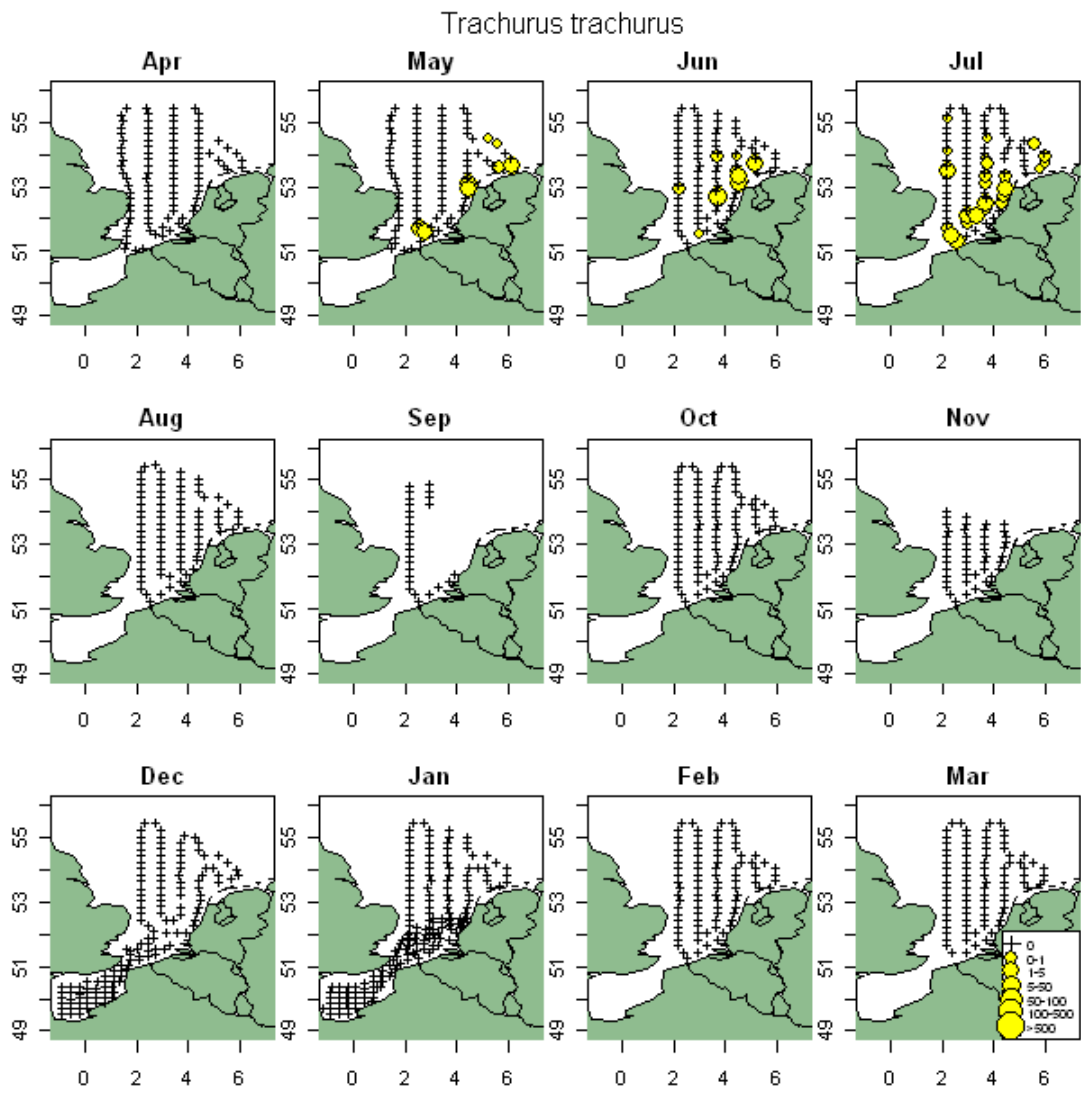


Figure 17c. Spatial and temporal distribution of stage 3 horse mackerel eggs.

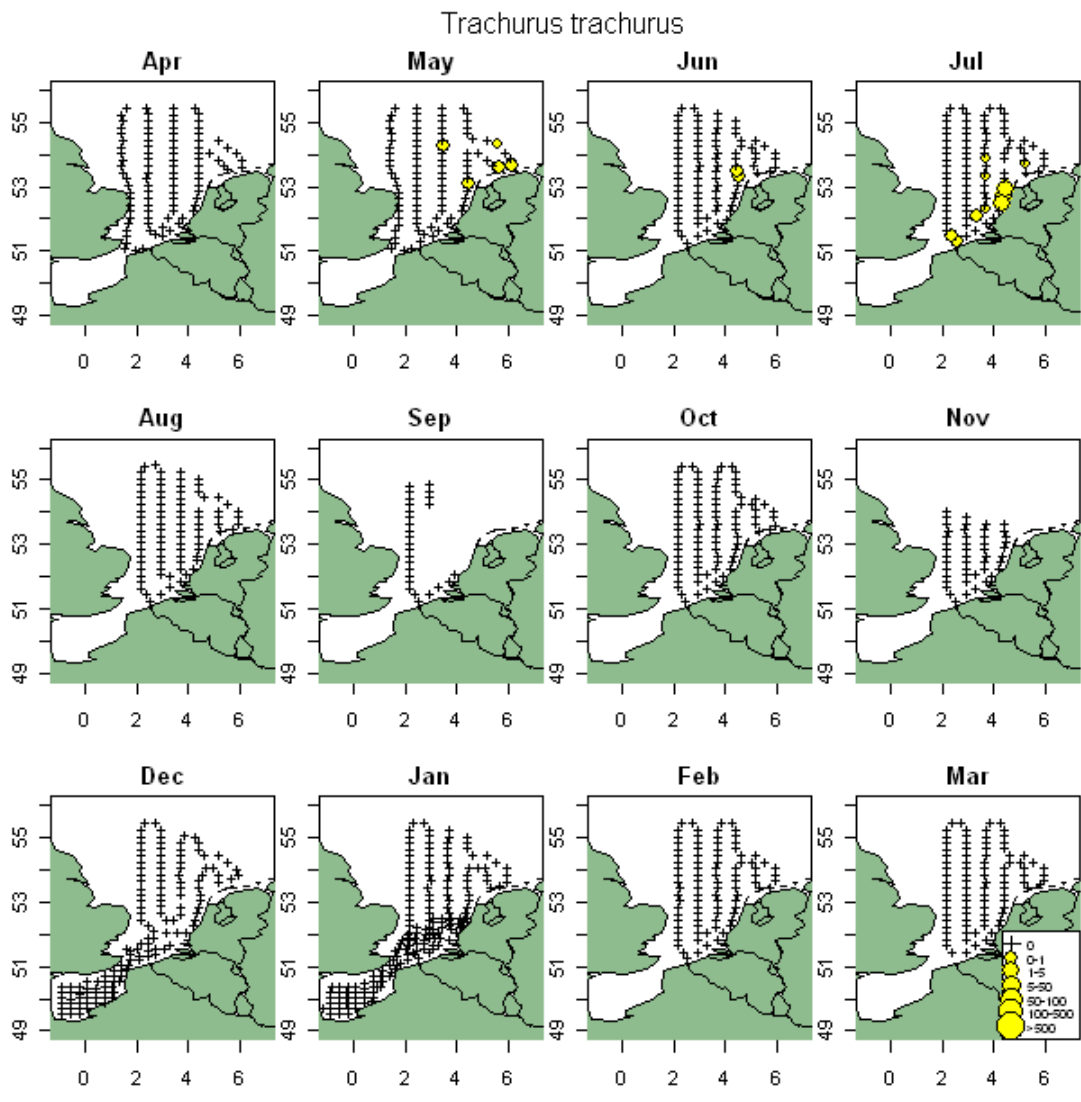


Figure 17d. Spatial and temporal distribution of stage 4 horse mackerel eggs.

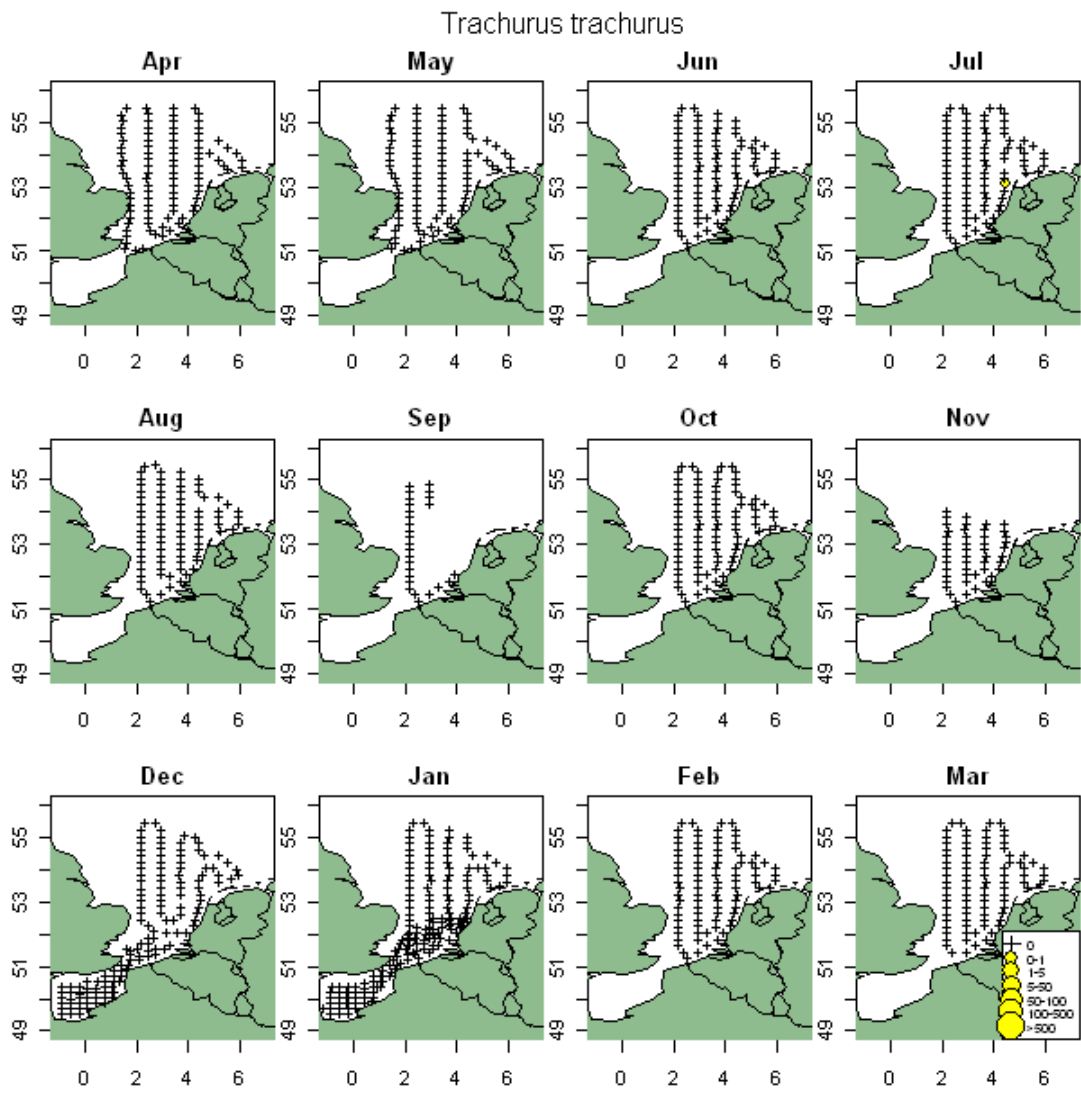


Figure 17e. Spatial and temporal distribution of stage 5 horse mackerel eggs.

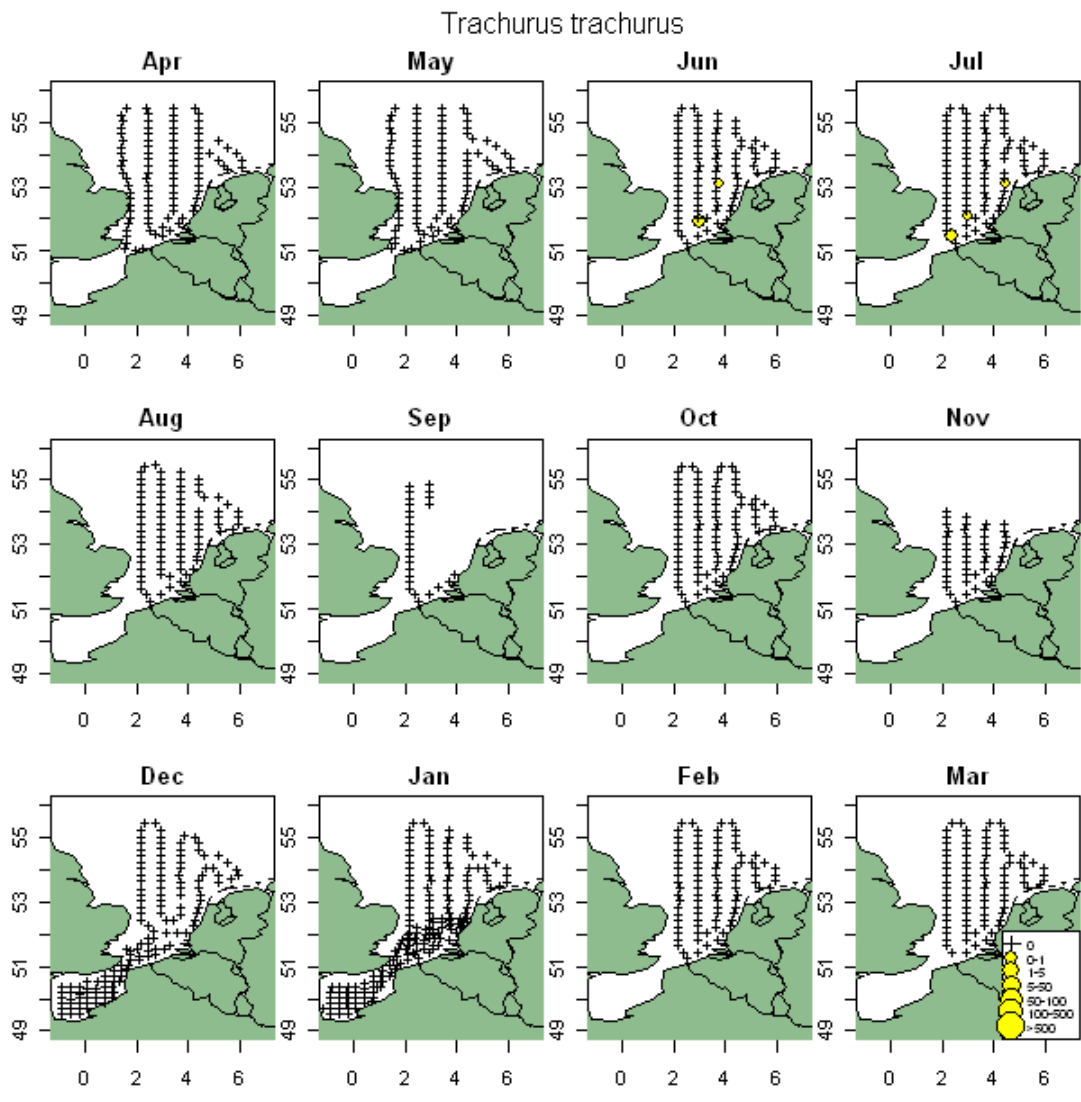


Figure 17f. Spatial and temporal distribution of yolk sac horse mackerel larvae.

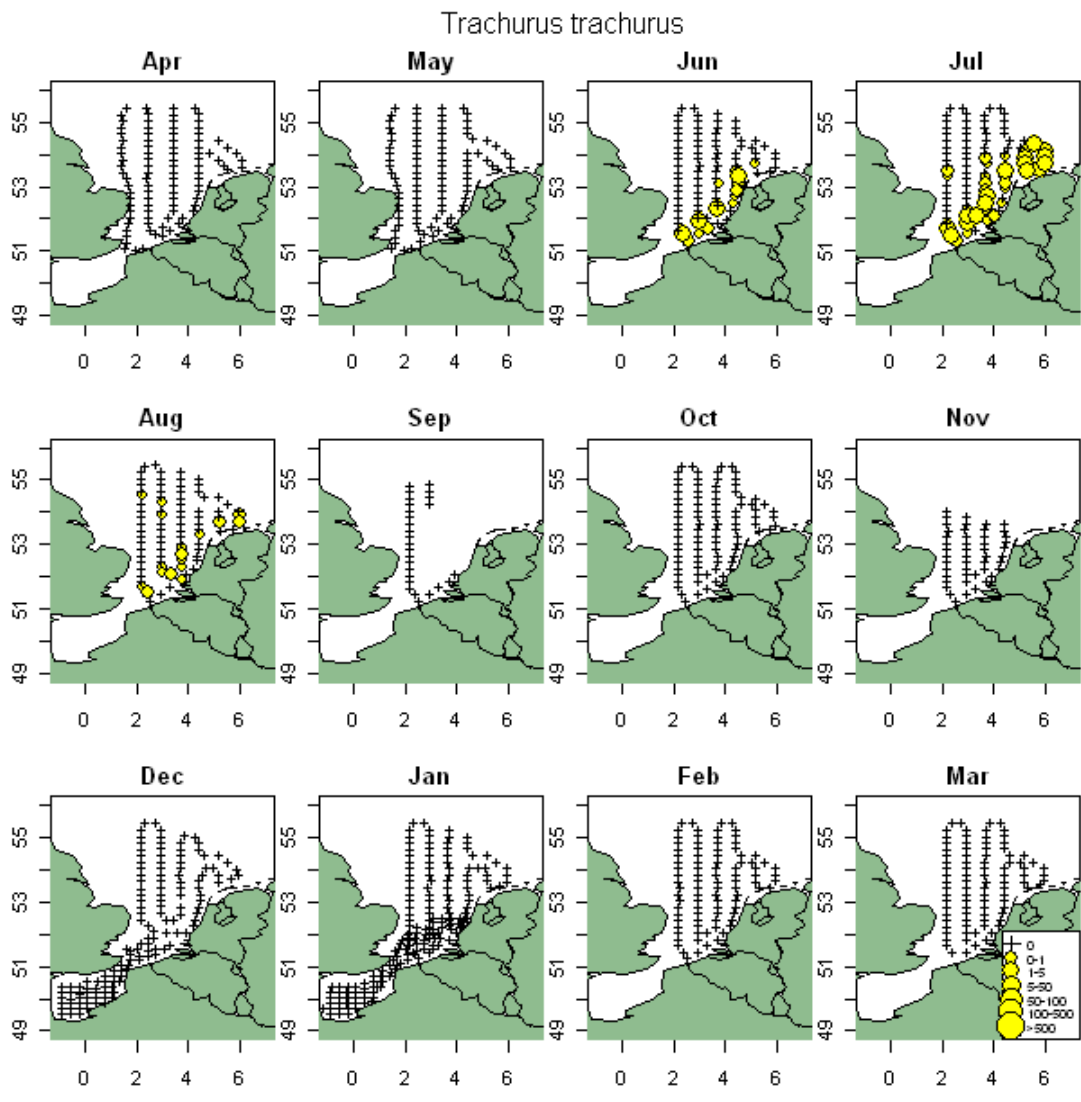


Figure 17g. Spatial and temporal distribution of non-yolk sac horse mackerel larvae.

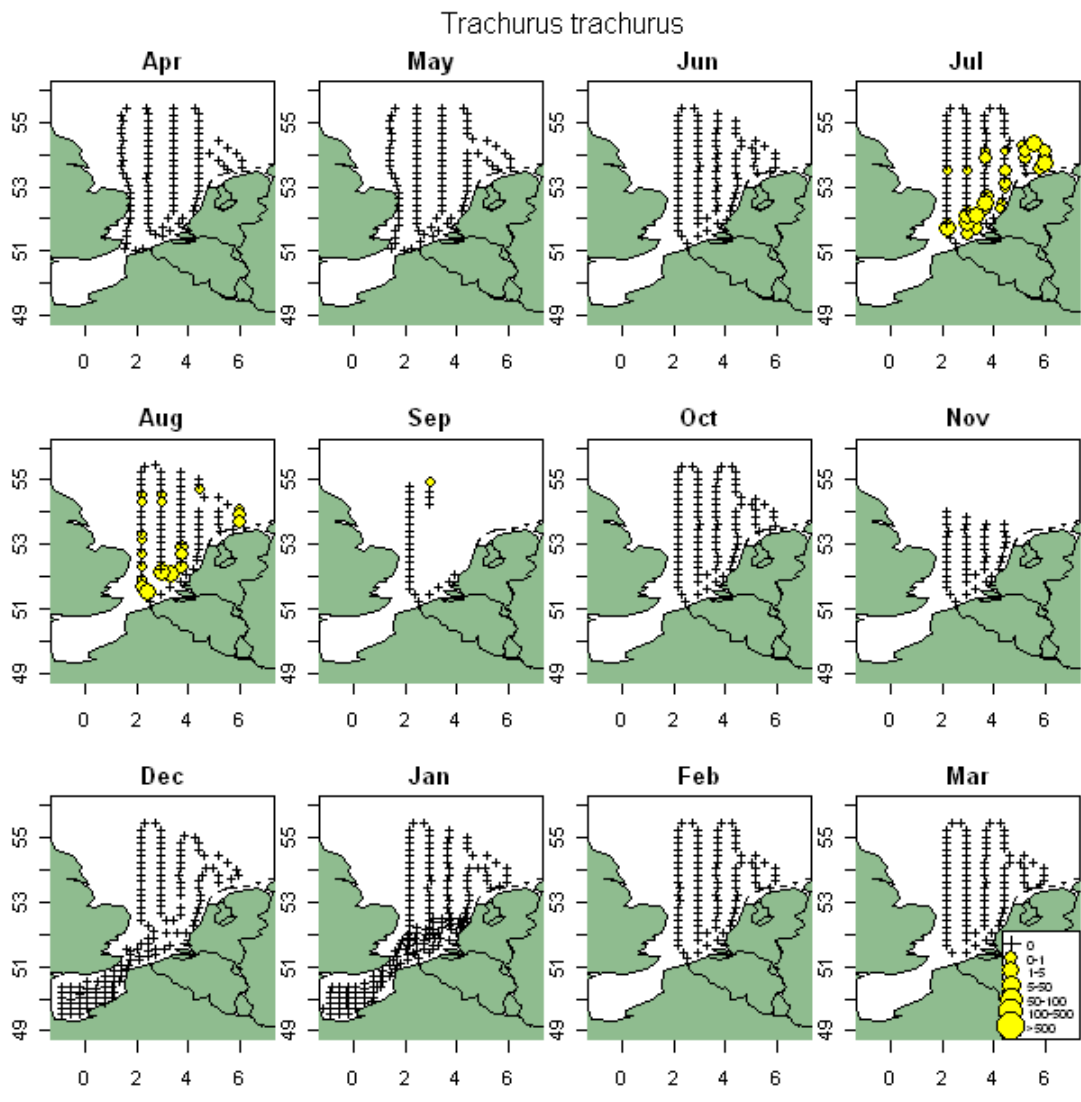


Figure 17h. Spatial and temporal distribution of bent notochord stage horse mackerel larvae.

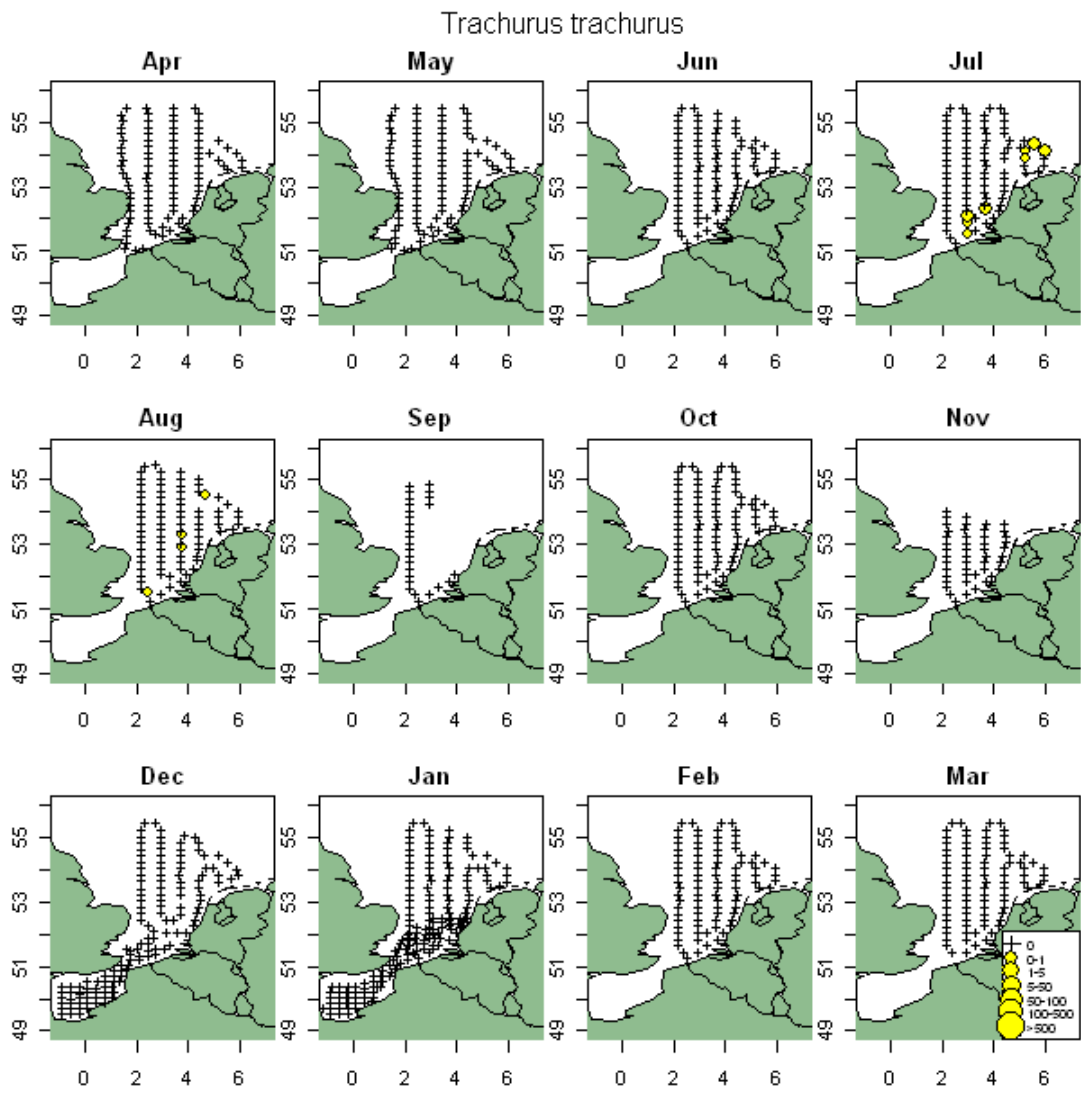


Figure 17i. Spatial and temporal distribution of metamorphosing horse mackerel larvae.



**Smooth sandeel *Gymnammodytes semisquamatus***

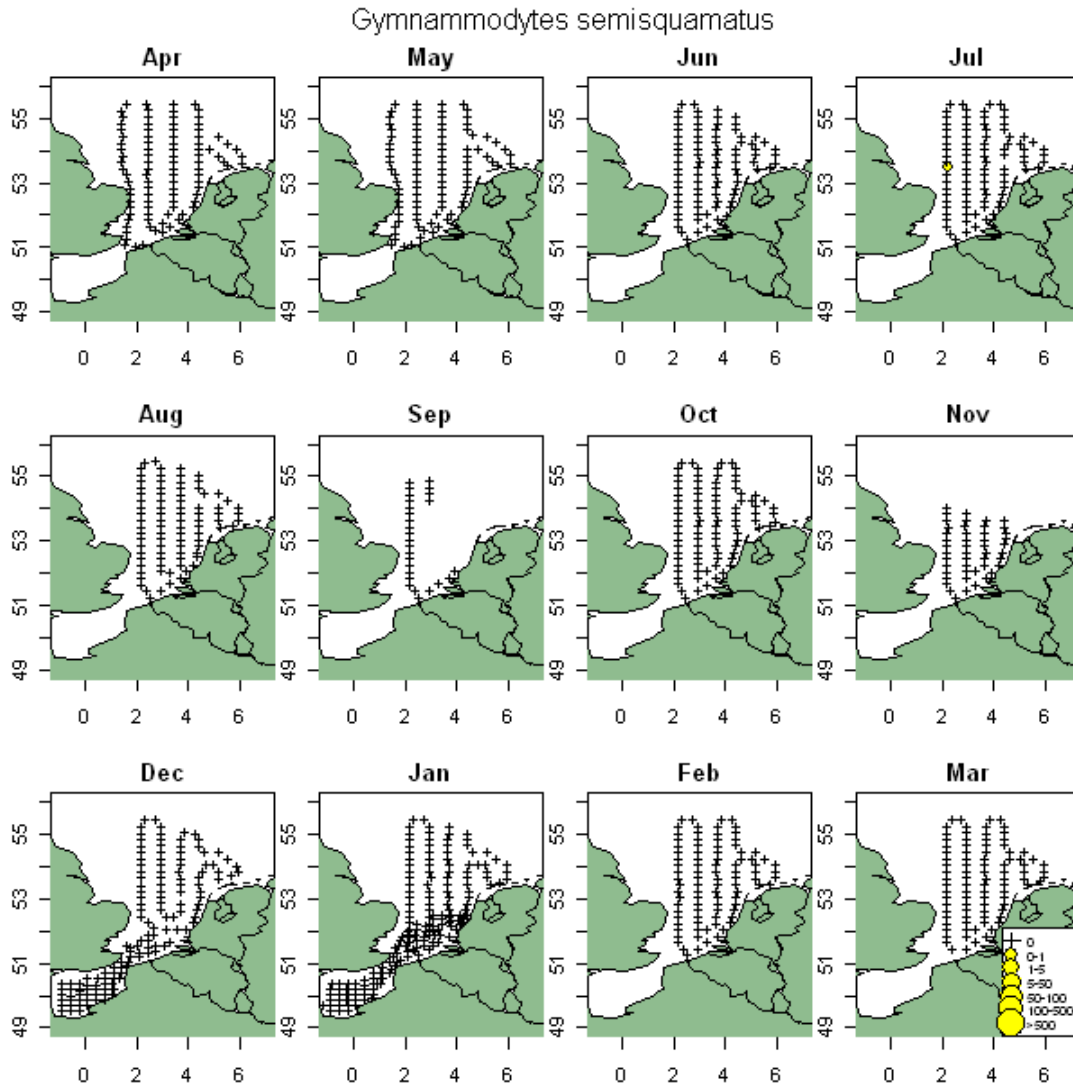


Figure 18a. Spatial and temporal distribution of yolk sac smooth sandeel larvae.

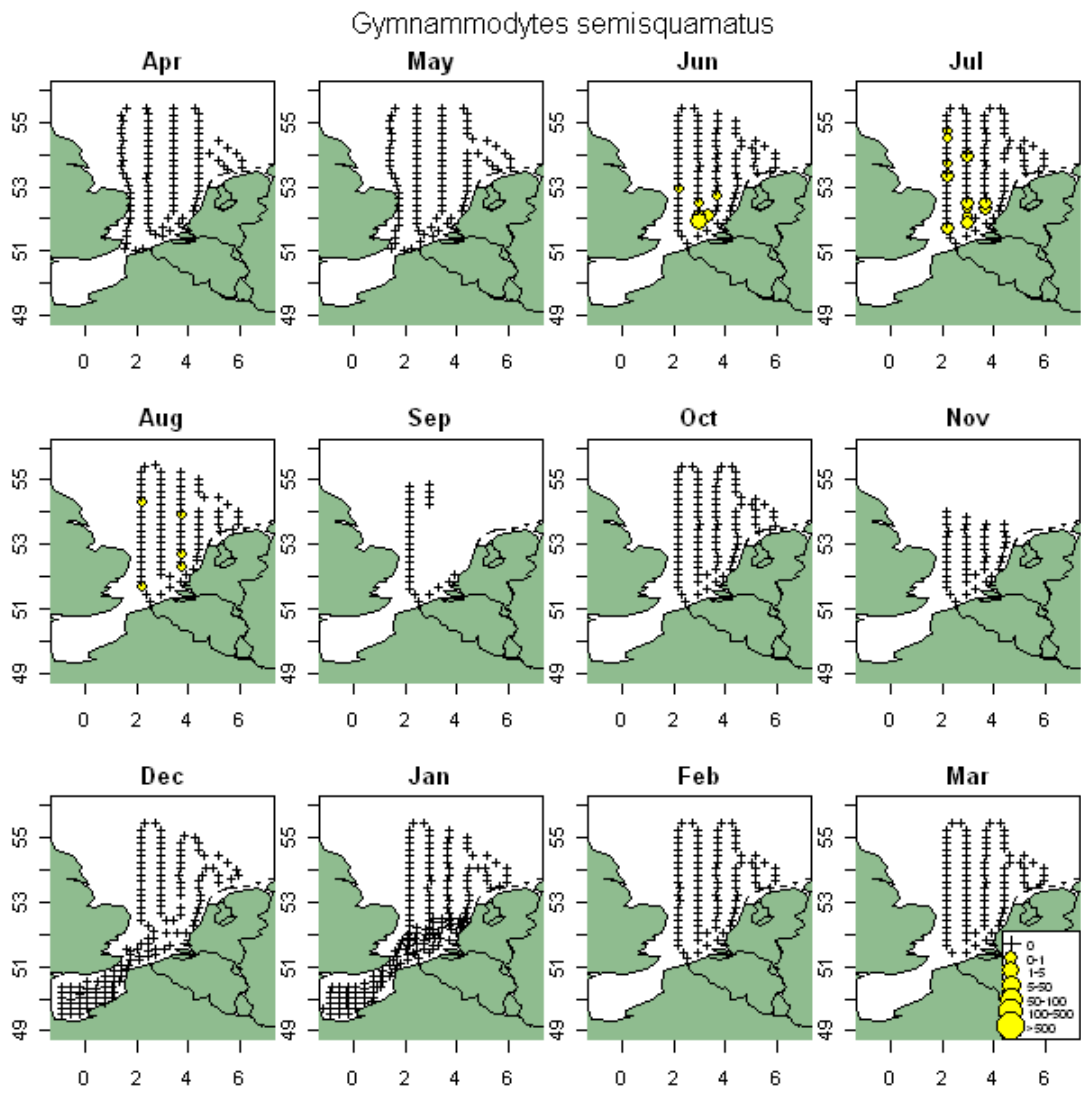


Figure 18b. Spatial and temporal distribution of non-yolk sac smooth sandeel larvae.

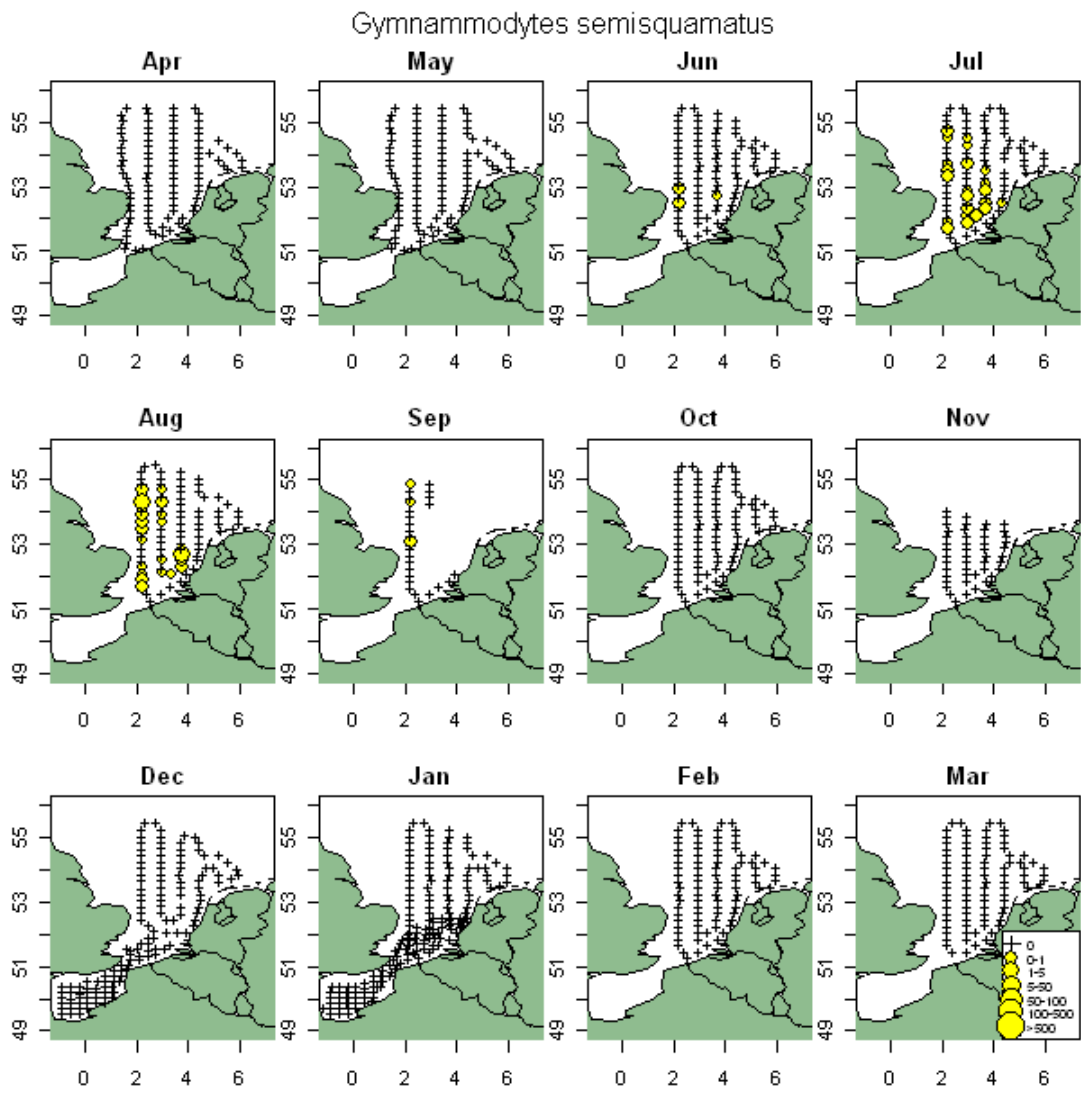


Figure 18c. Spatial and temporal distribution of bent notochord stage smooth sandeel larvae.

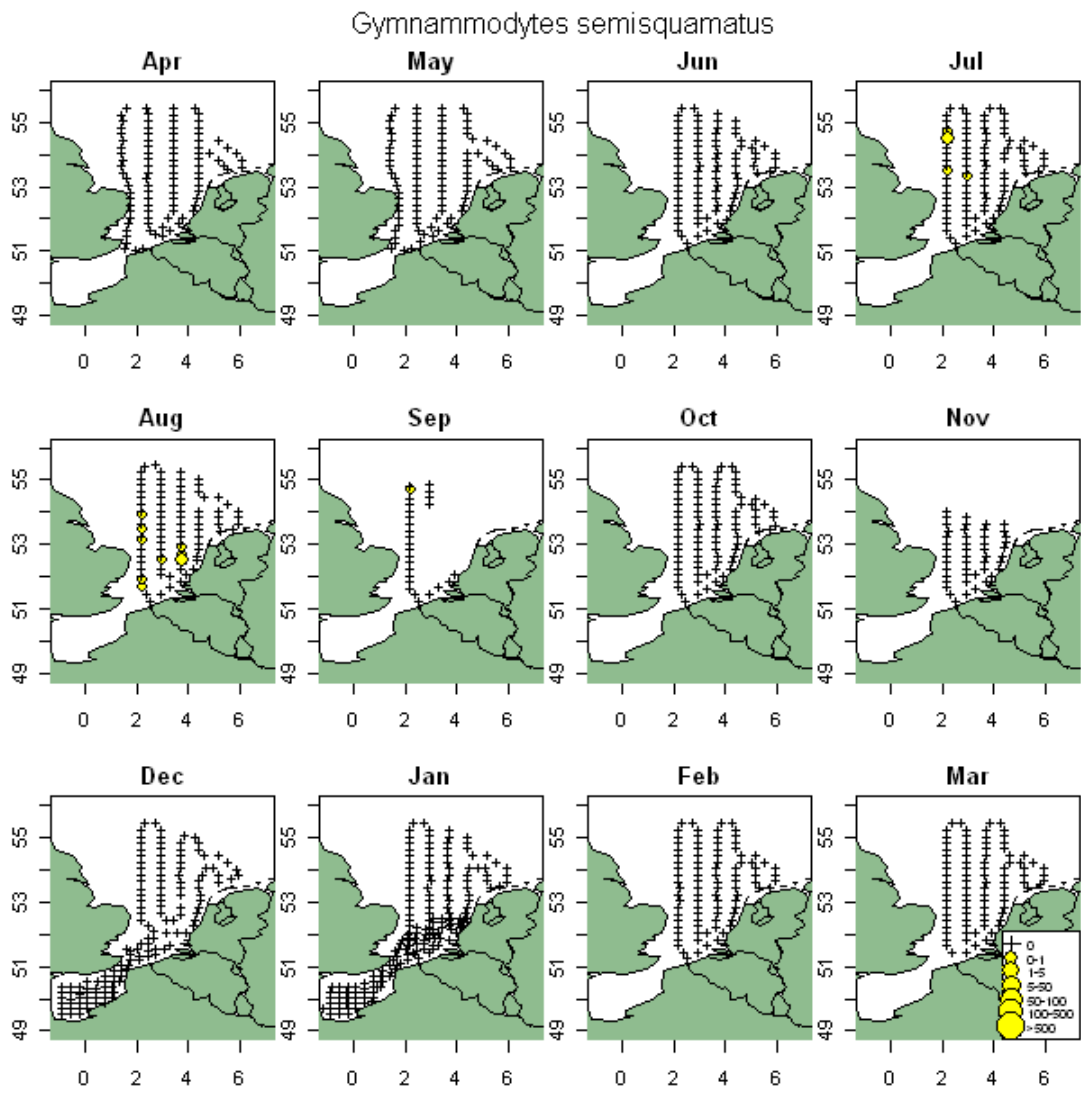


Figure 18d. Spatial and temporal distribution of metamorphosing smooth sandeel larvae.

**Greater sandeel *Hyperoplus lanceolatus***

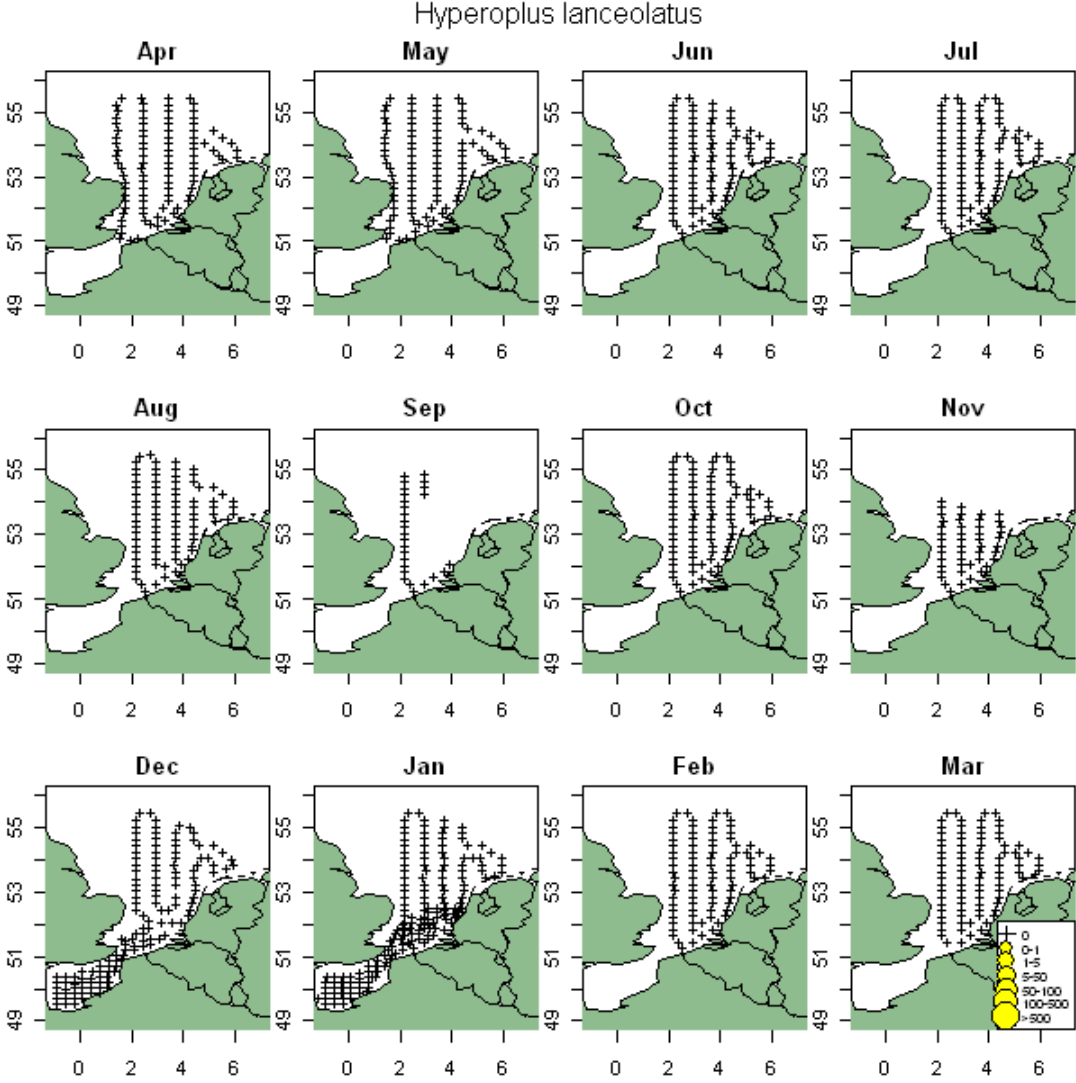


Figure 19a. Spatial and temporal distribution of yolk sac greater sandeel larvae.

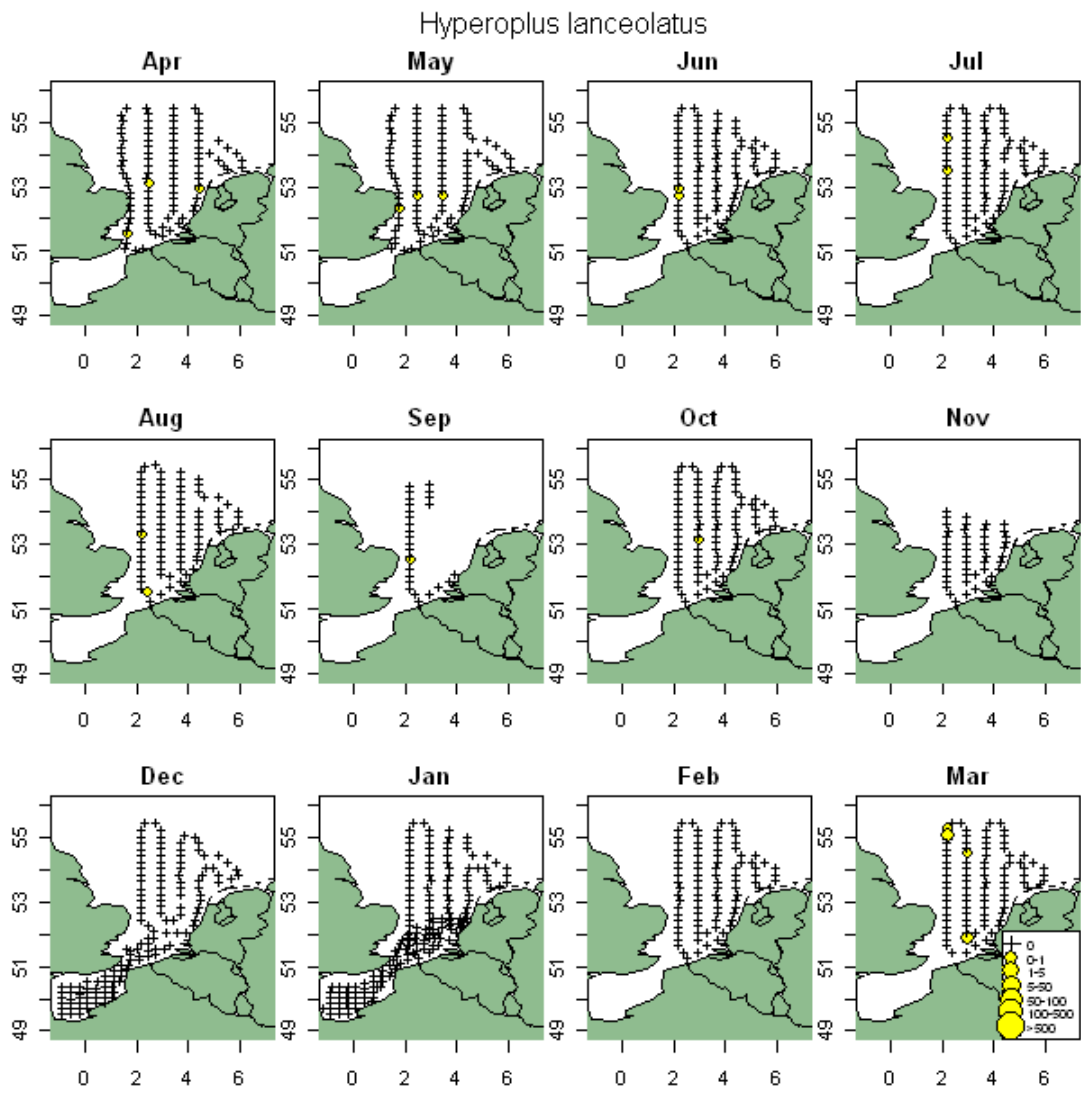


Figure 19b. Spatial and temporal distribution of non-yolk sac greater sandeel larvae.

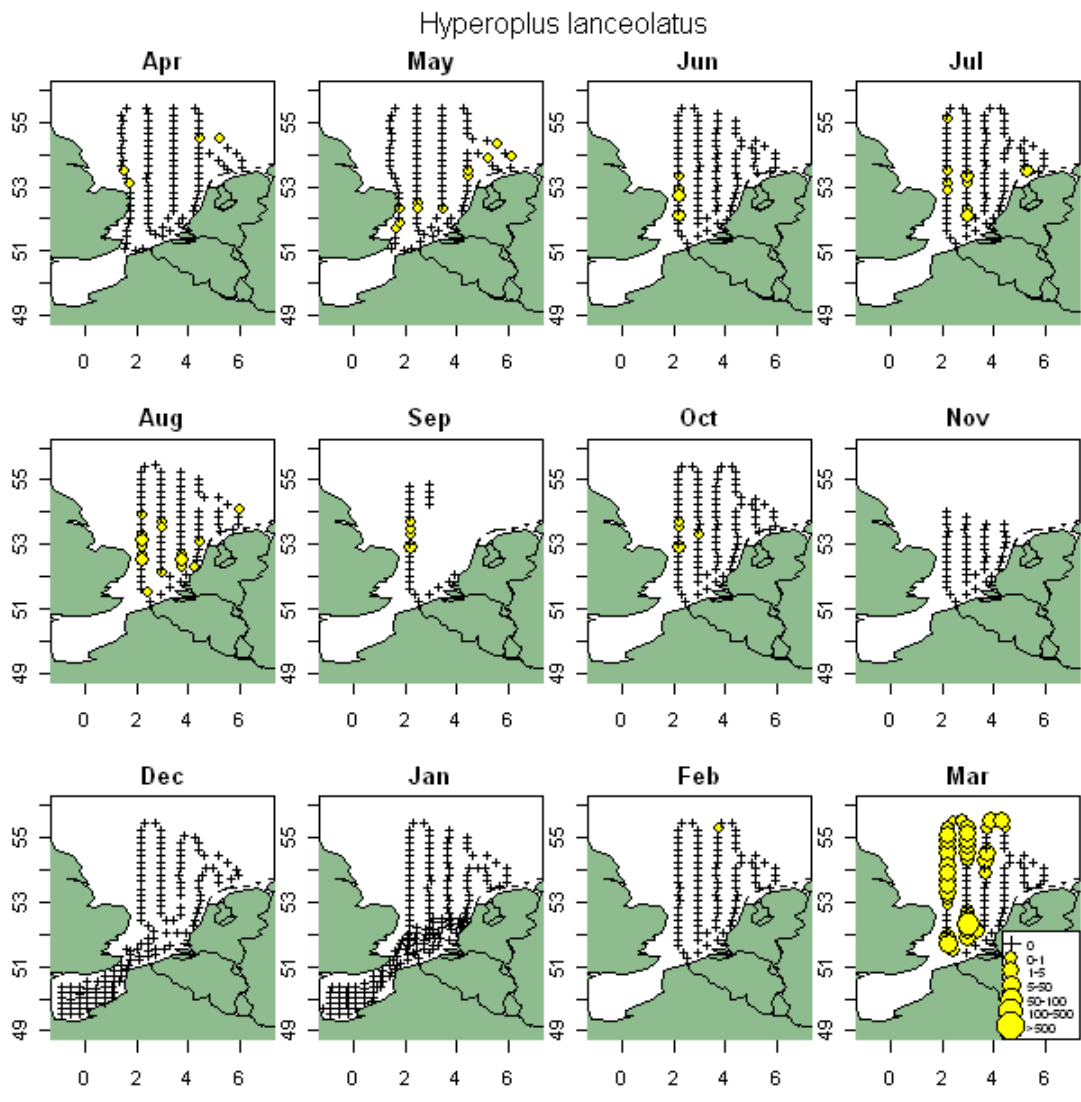


Figure 19c. Spatial and temporal distribution of bent notochord stage greater sandeel larvae.

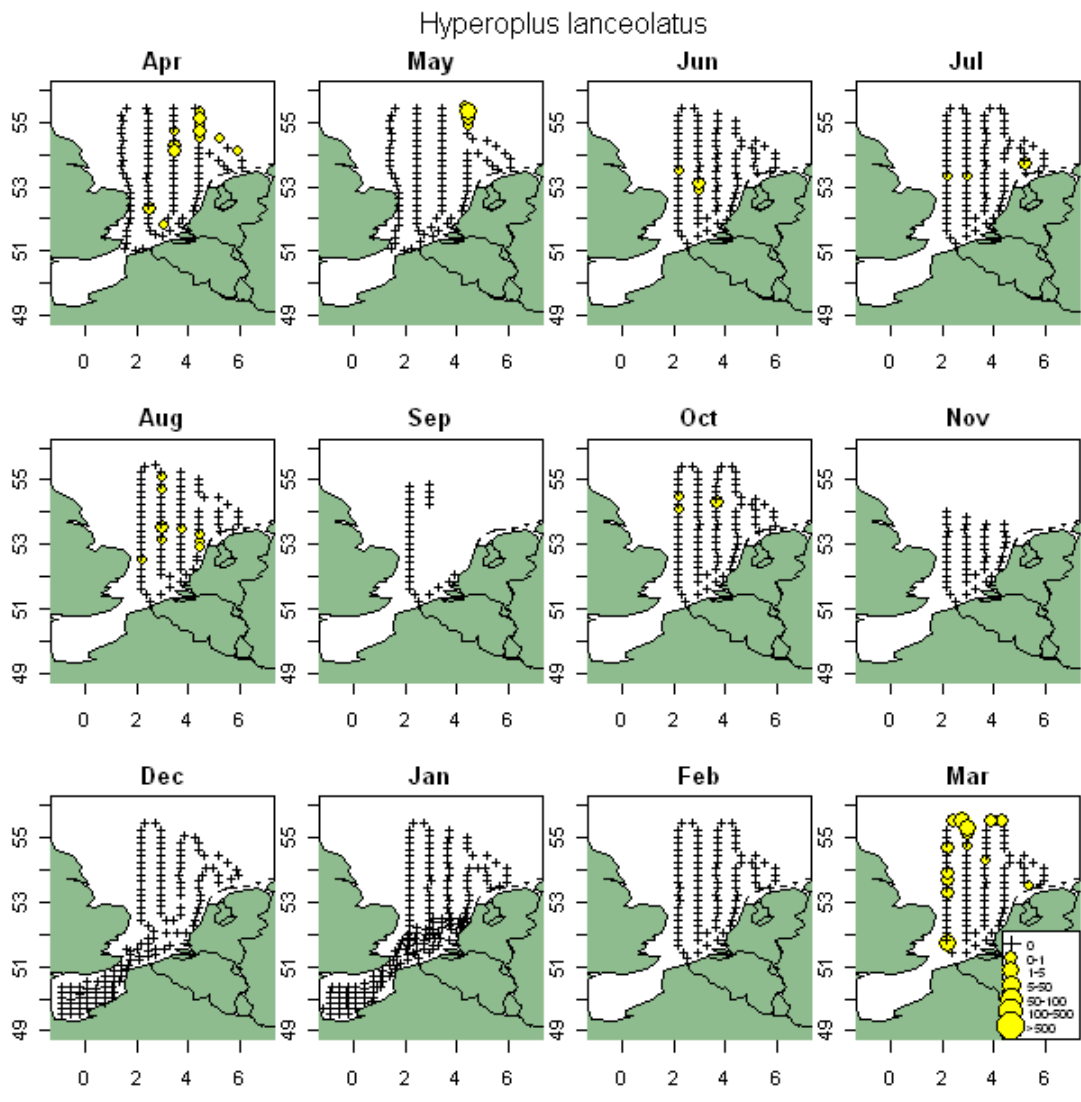


Figure 19d. Spatial and temporal distribution of metamorphosing greater sandeel larvae.



**Small sandeel *Ammodytes tobianus***

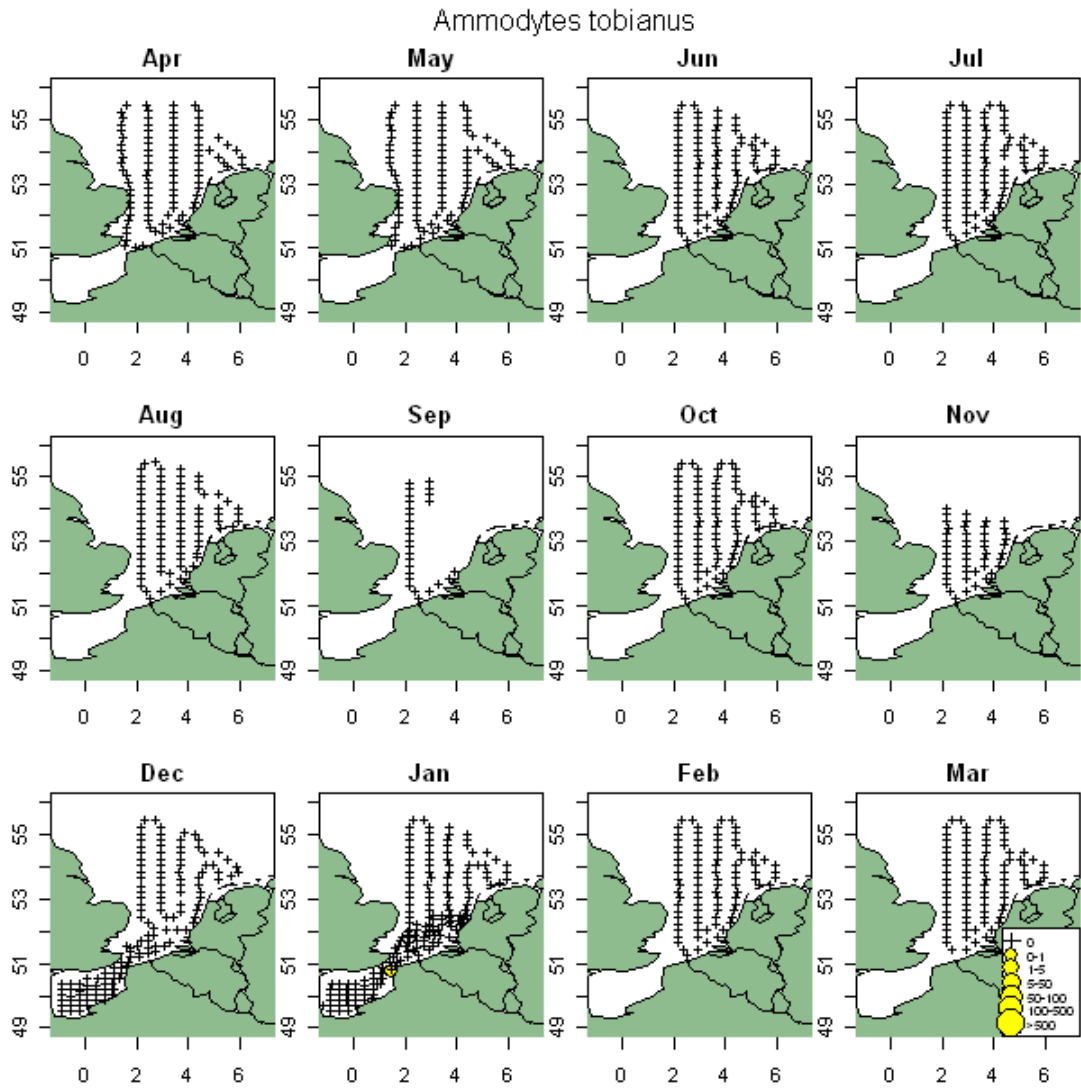


Figure 20a. Spatial and temporal distribution of yolk sac small sandeel larvae.

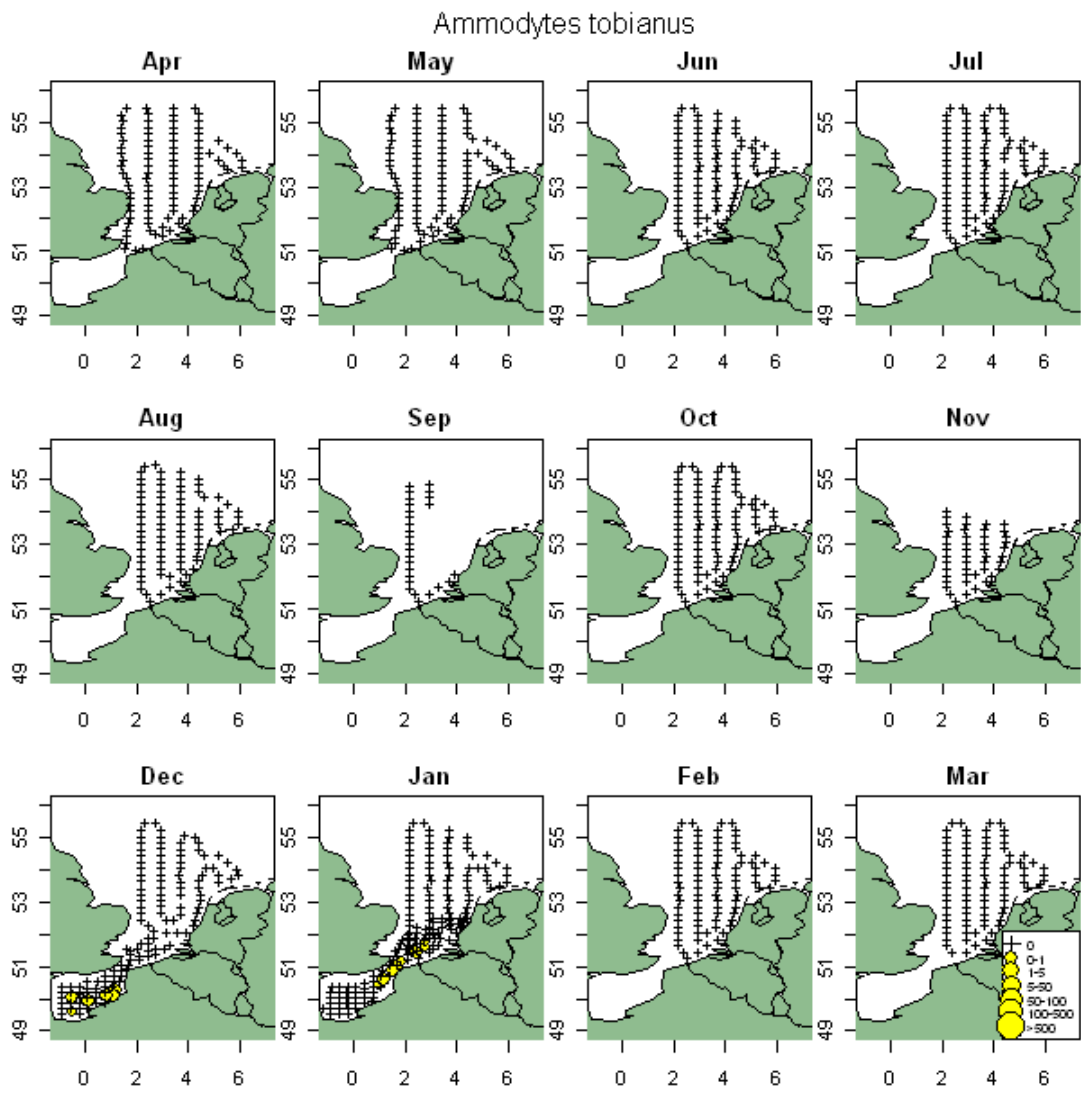


Figure 20b. Spatial and temporal distribution of non-yolk sac small sandeel larvae.

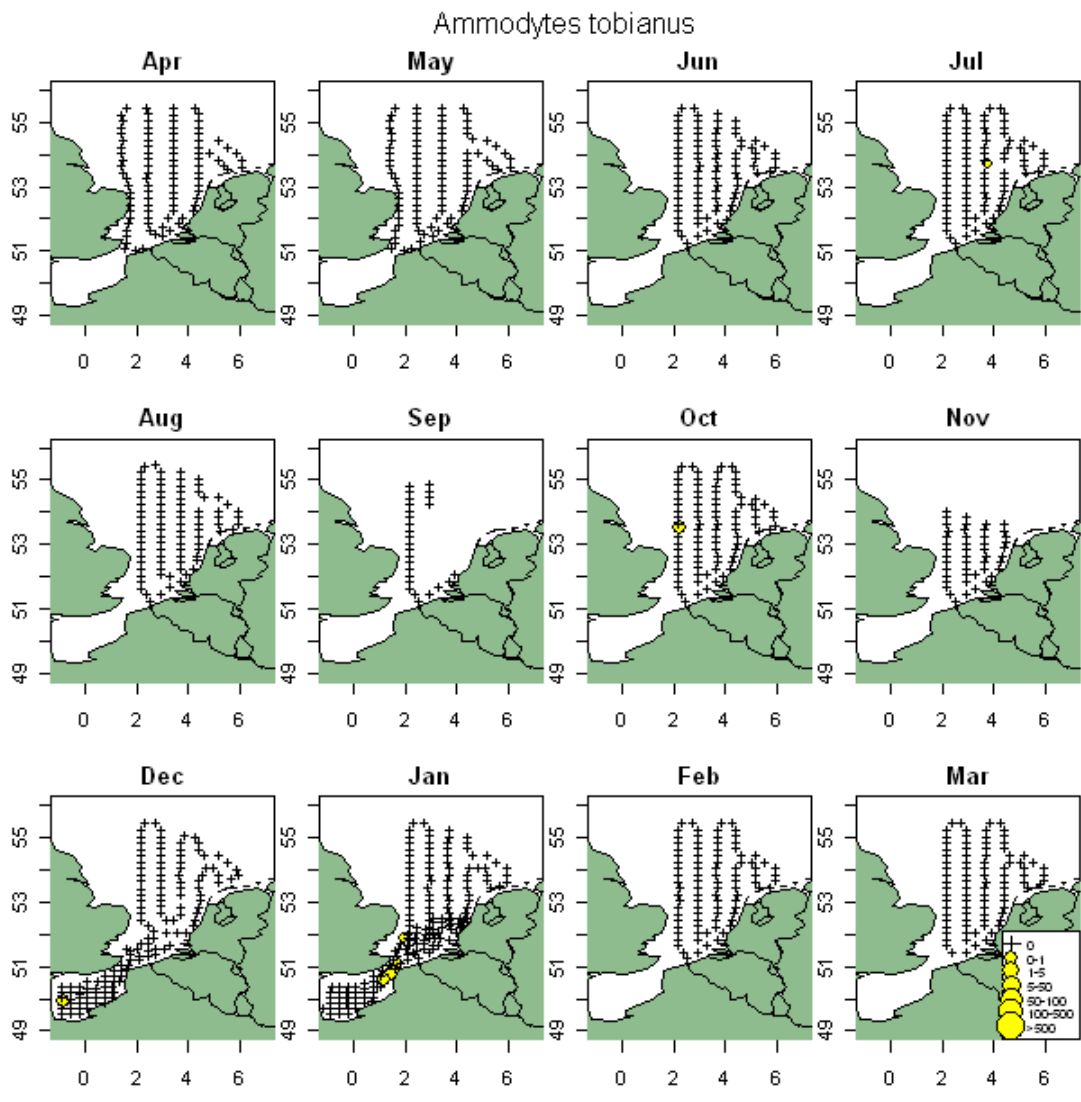


Figure 20c. Spatial and temporal distribution of bent notochord stage small sandeel larvae.

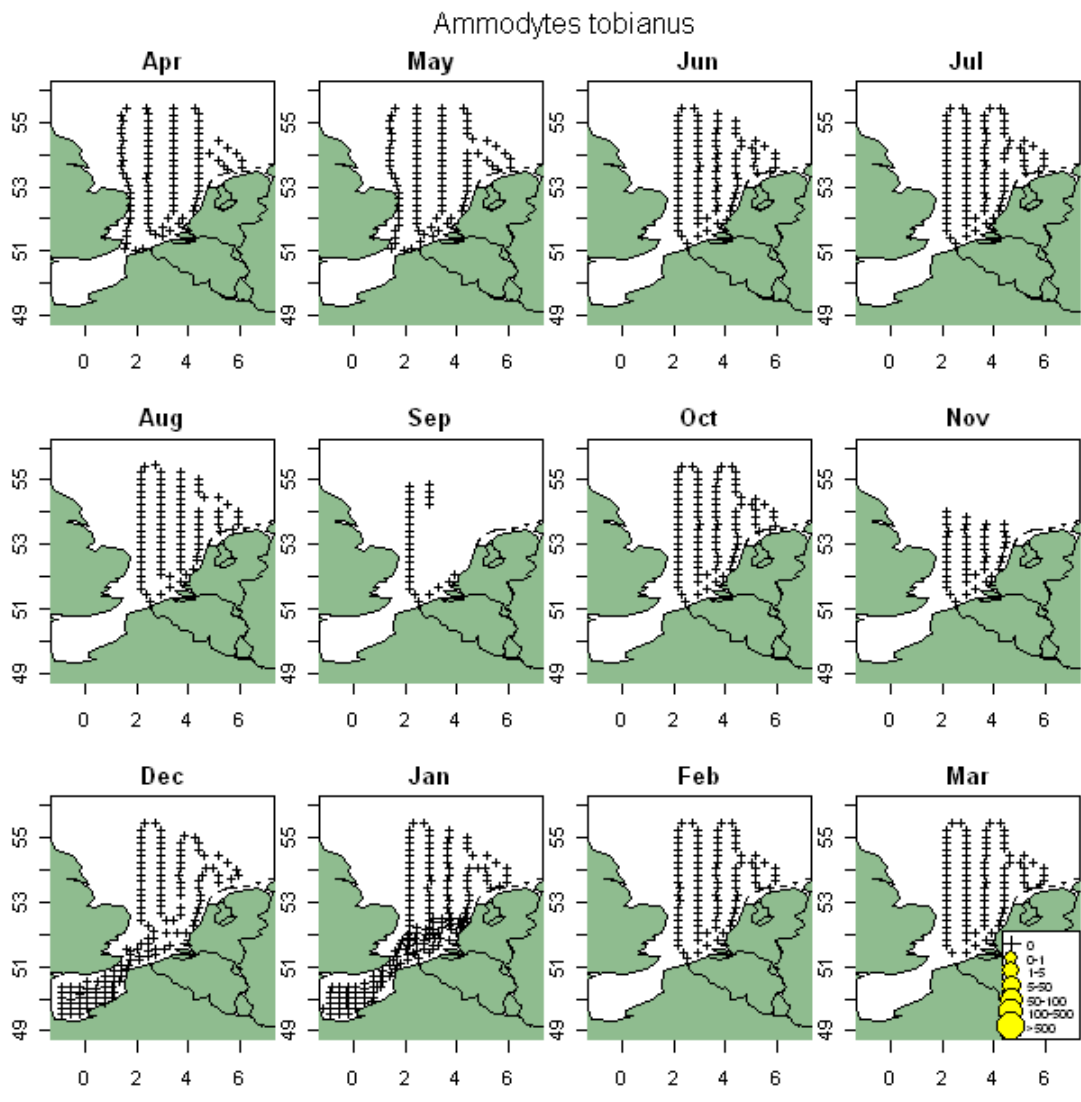


Figure 20d. Spatial and temporal distribution of metamorphosing small sandeel larvae.

**Lesser sandeel *Ammodytes marinus***

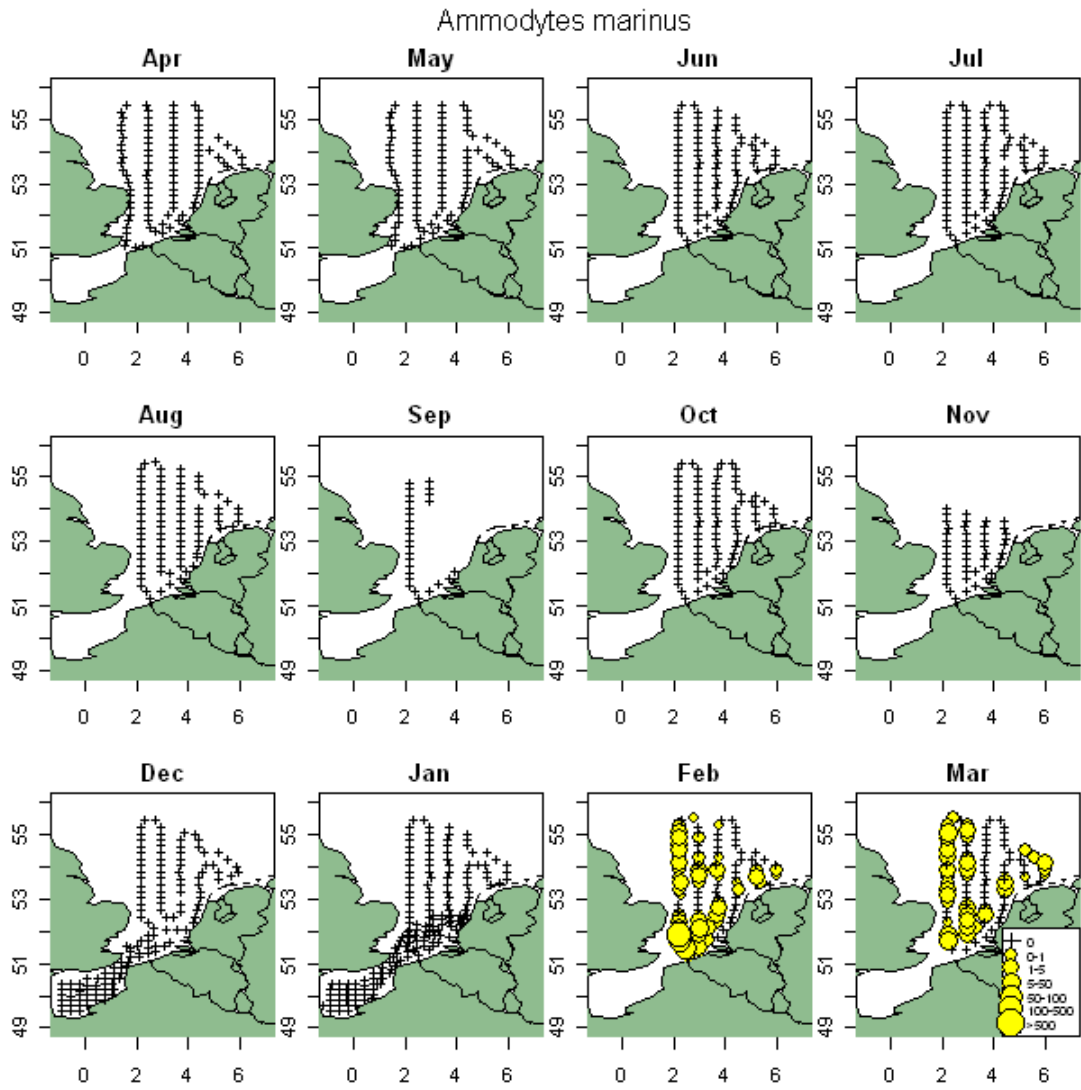


Figure 21a. Spatial and temporal distribution of yolk sac lesser sandeel larvae.

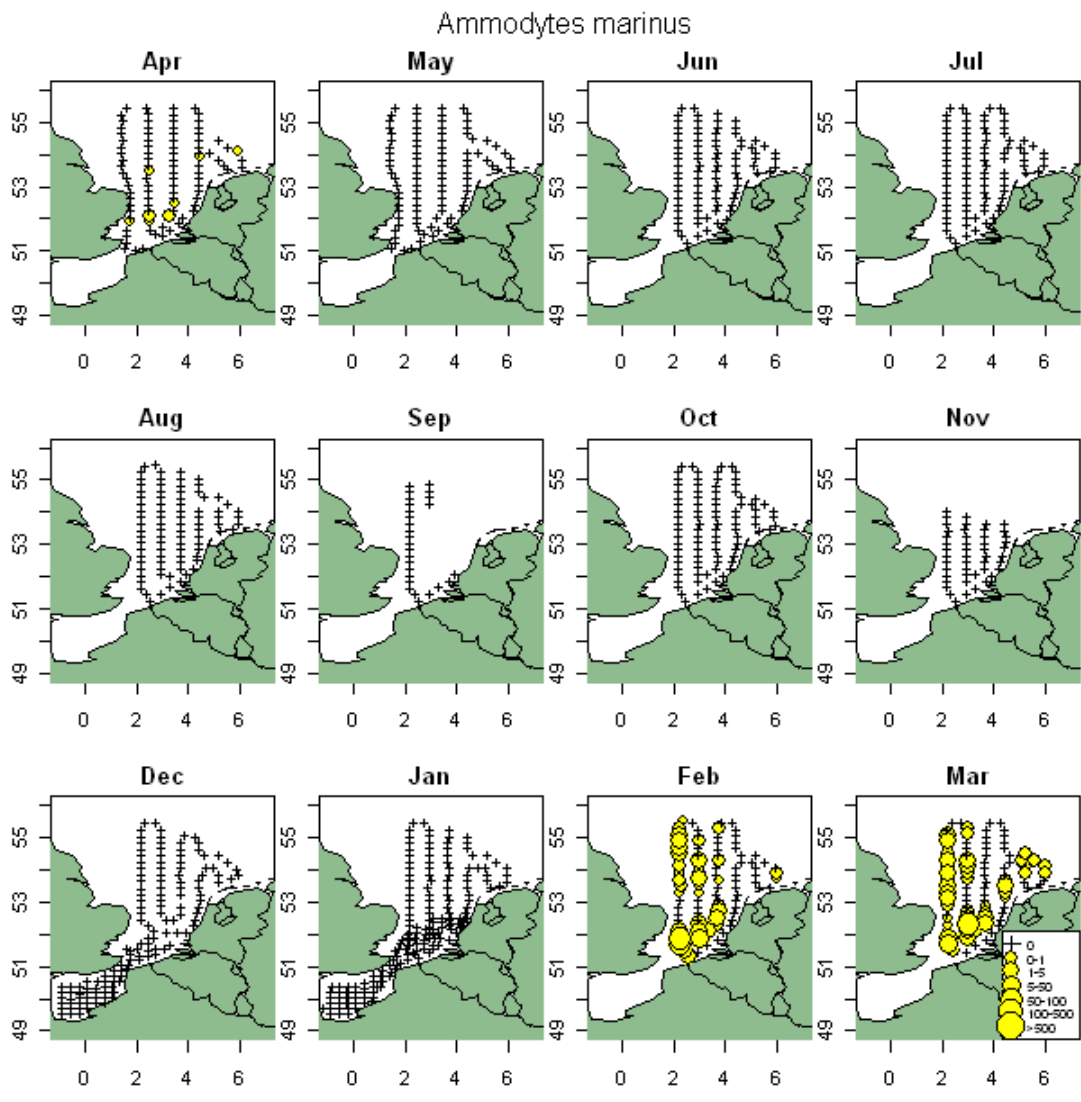


Figure 21b. Spatial and temporal distribution of non-yolk sac lesser sandeel larvae.

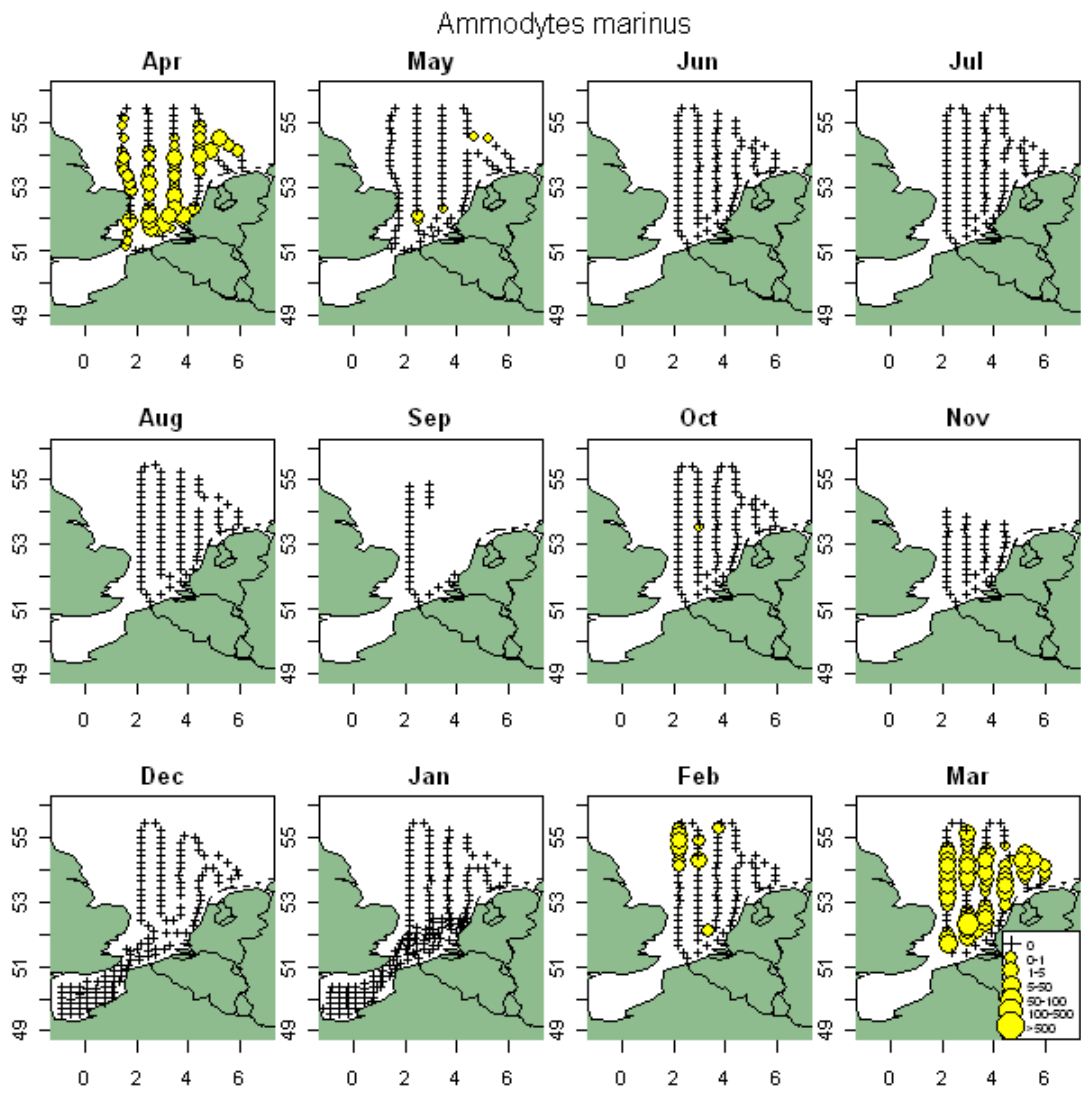


Figure 21c. Spatial and temporal distribution of bent notochord stage lesser sandeel larvae.

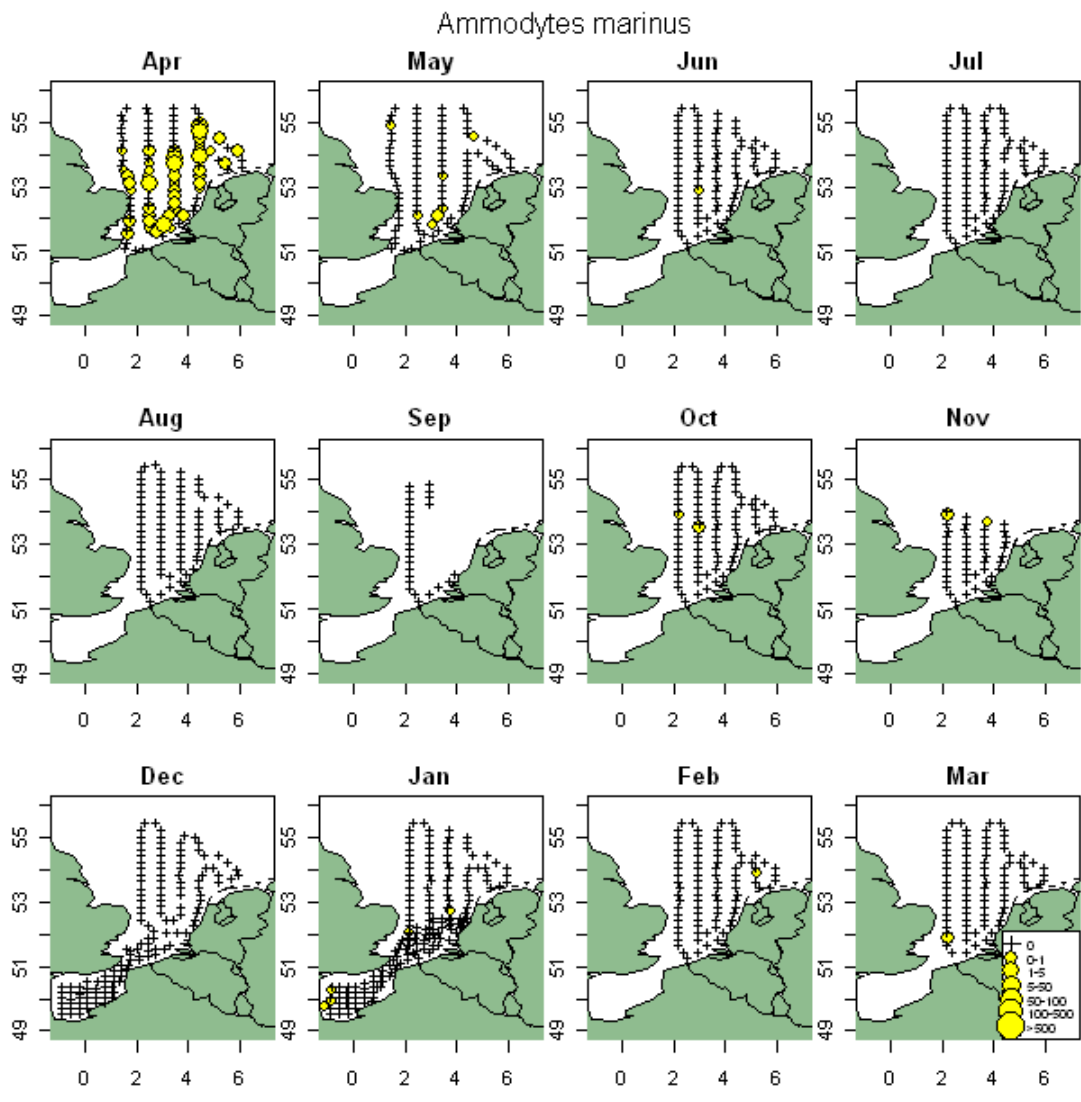


Figure 21d. Spatial and temporal distribution of metamorphosing lesser sandeel larvae.



**Lesser weever *Echiichthys vipera***

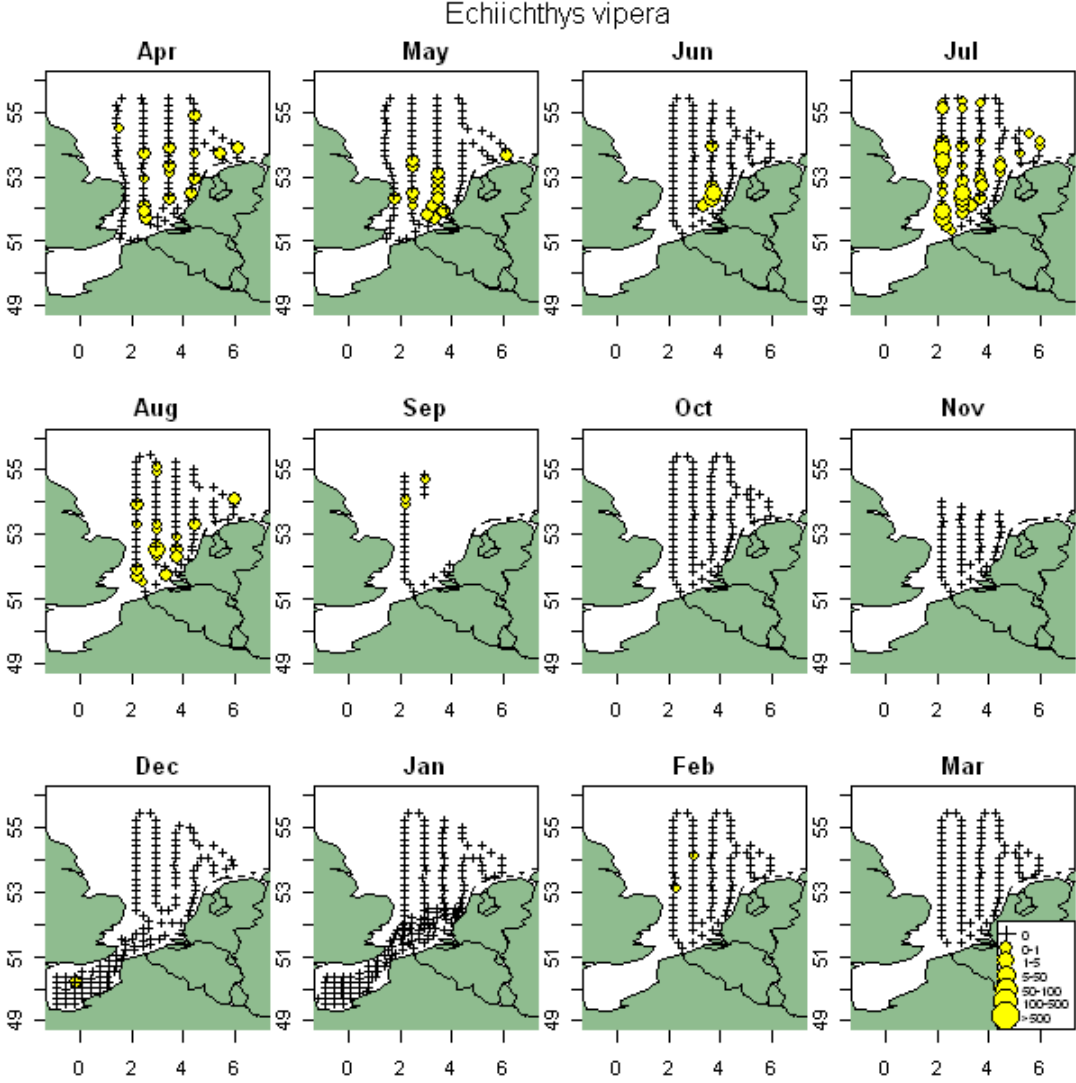


Figure 22a. Spatial and temporal distribution of stage 1 lesser weever eggs.

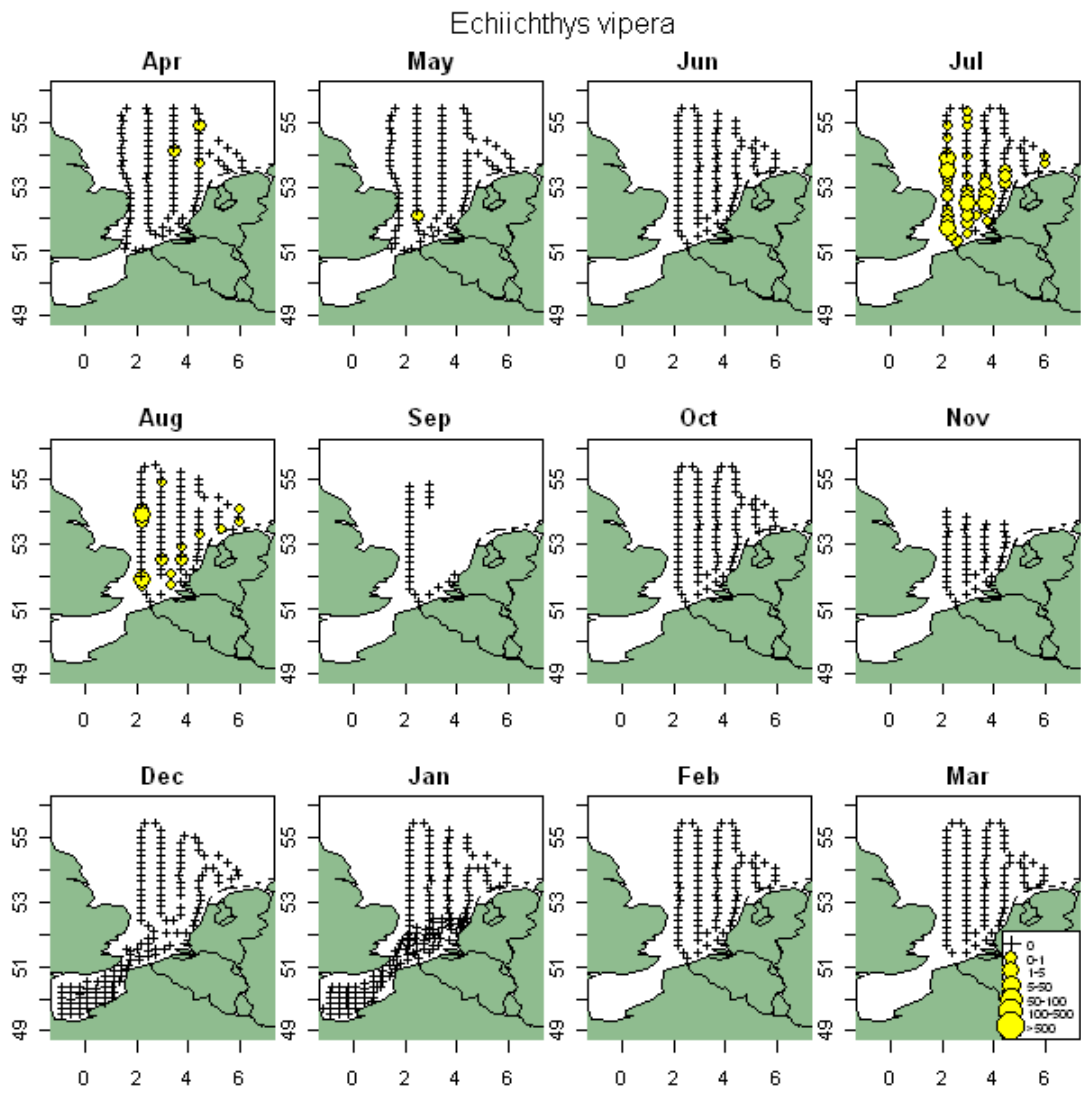


Figure 22b. Spatial and temporal distribution of stage 2 lesser weever eggs.

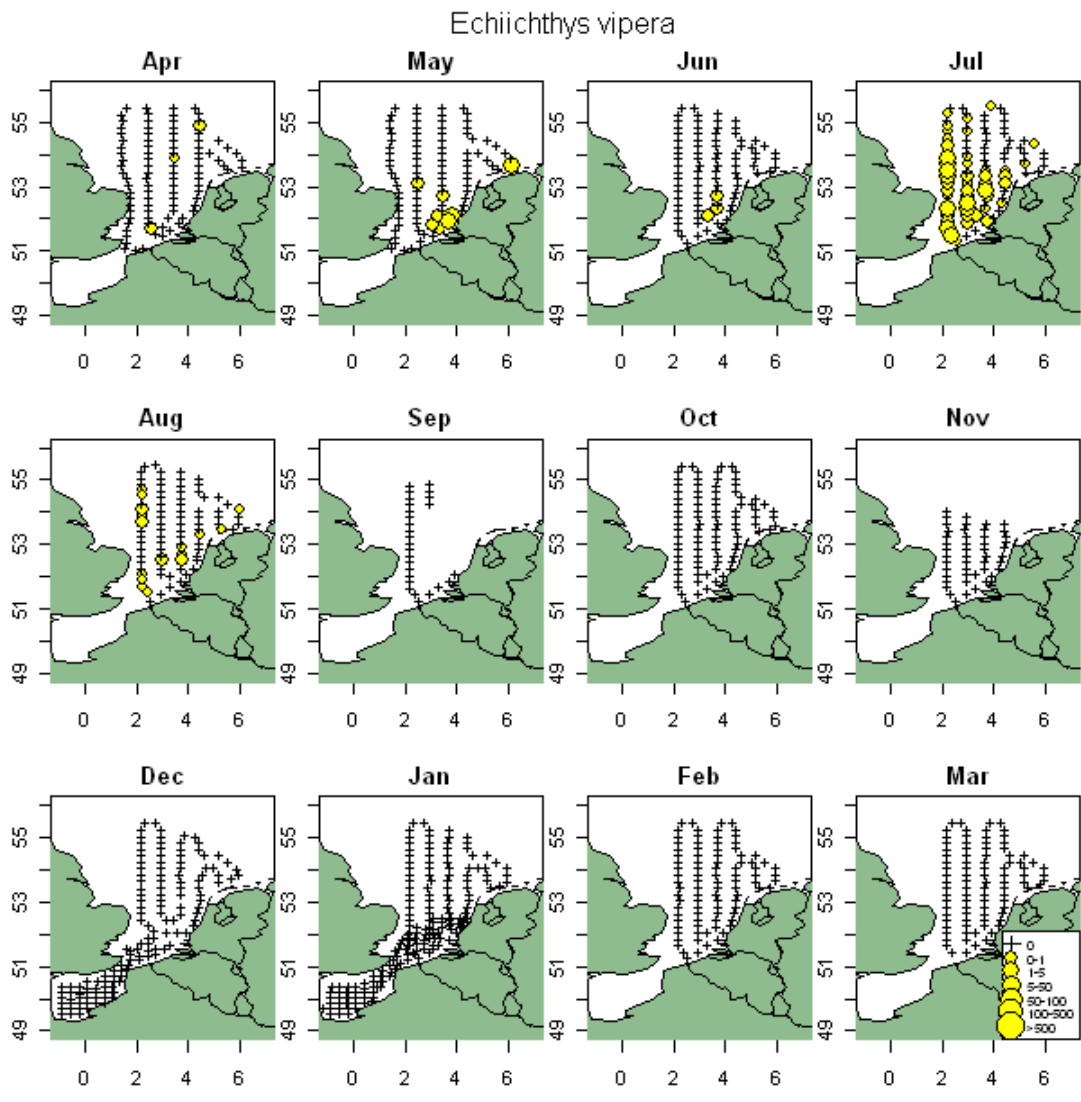


Figure 22c. Spatial and temporal distribution of stage 3 lesser weever eggs.

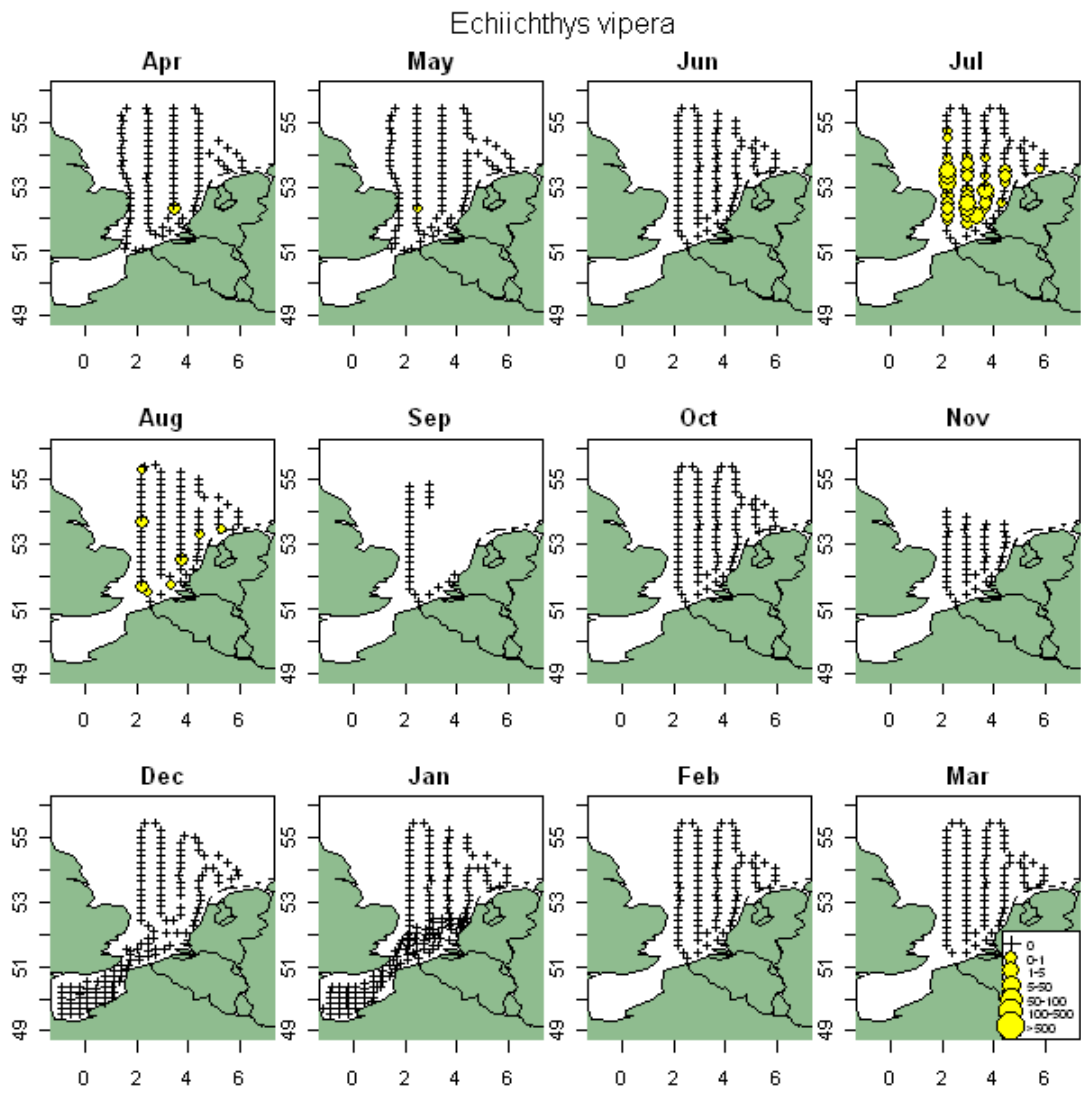


Figure 22d. Spatial and temporal distribution of stage 4 lesser weever eggs.

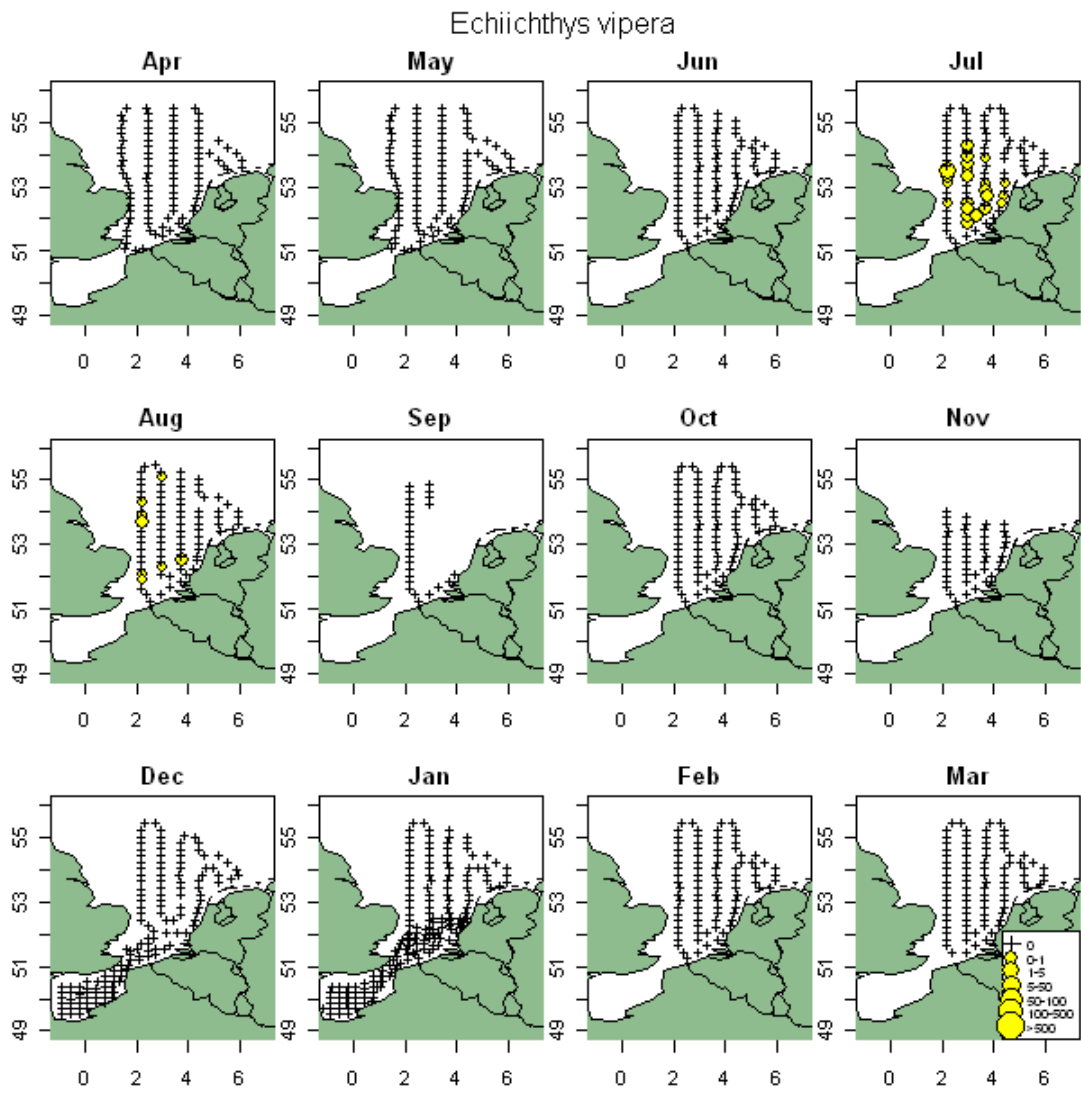


Figure 22e. Spatial and temporal distribution of stage 5 lesser weever eggs.

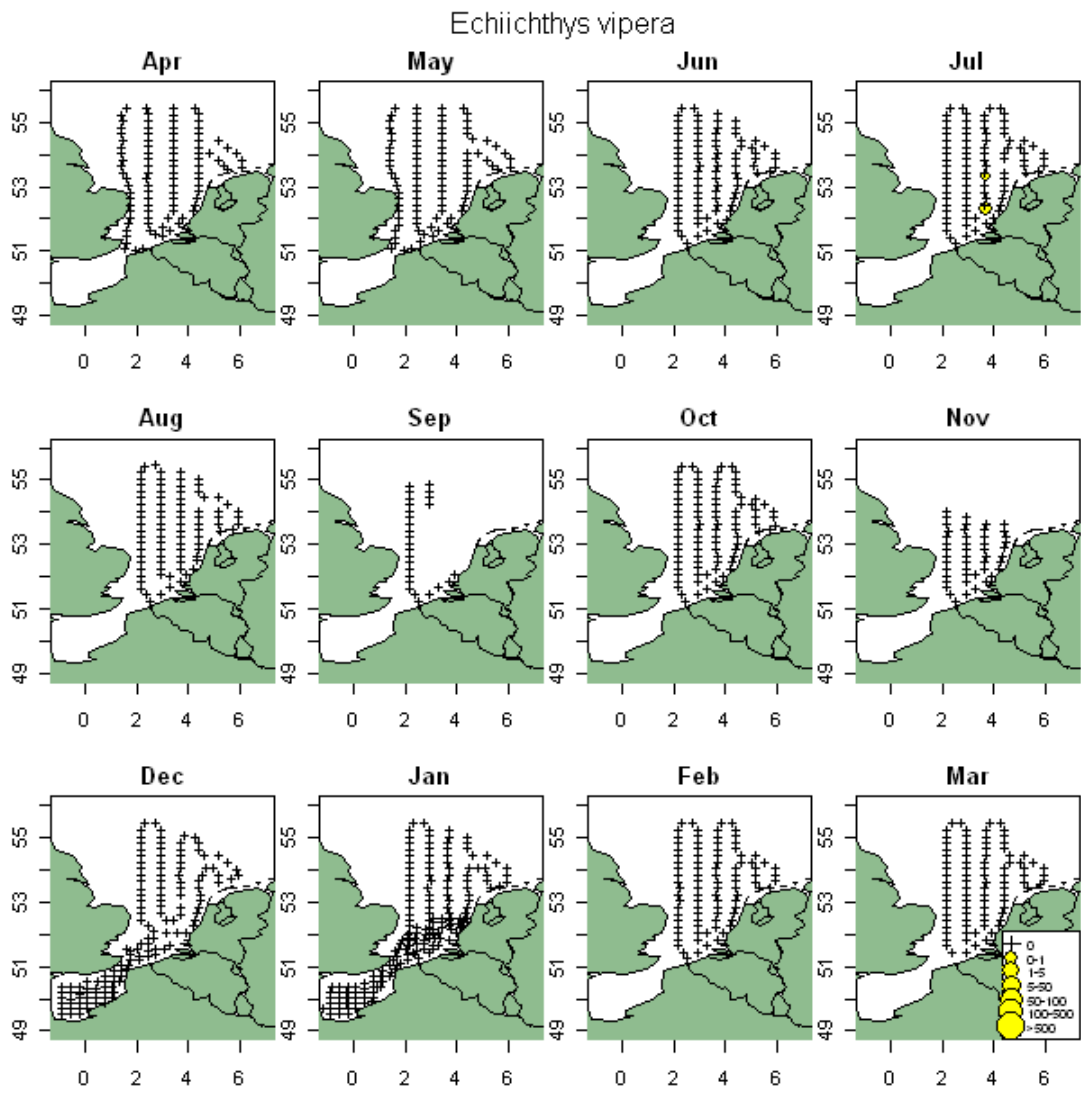


Figure 22f. Spatial and temporal distribution of yolk sac lesser weever larvae.

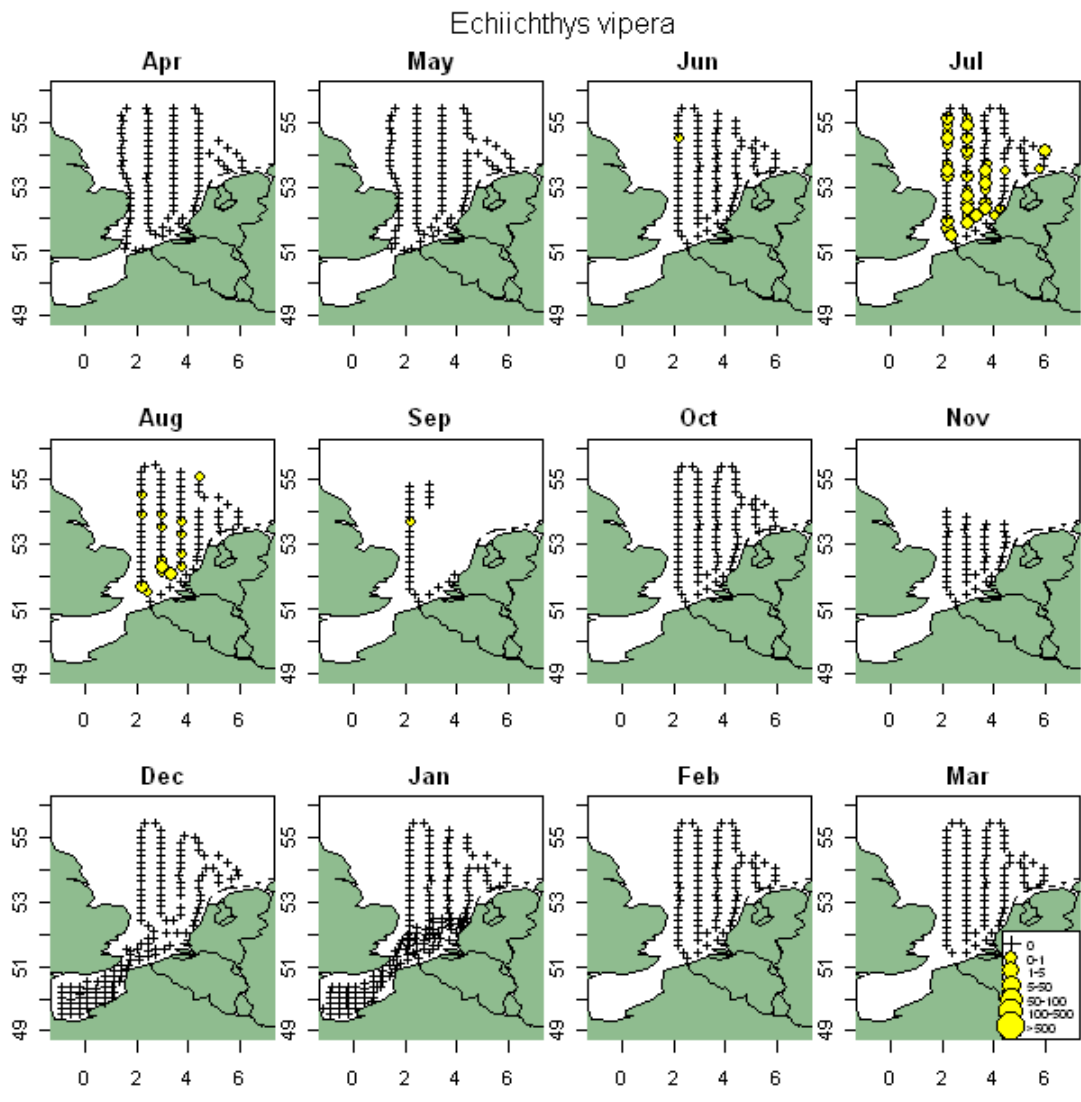


Figure 22g. Spatial and temporal distribution of non-yolk sac lesser weever larvae.

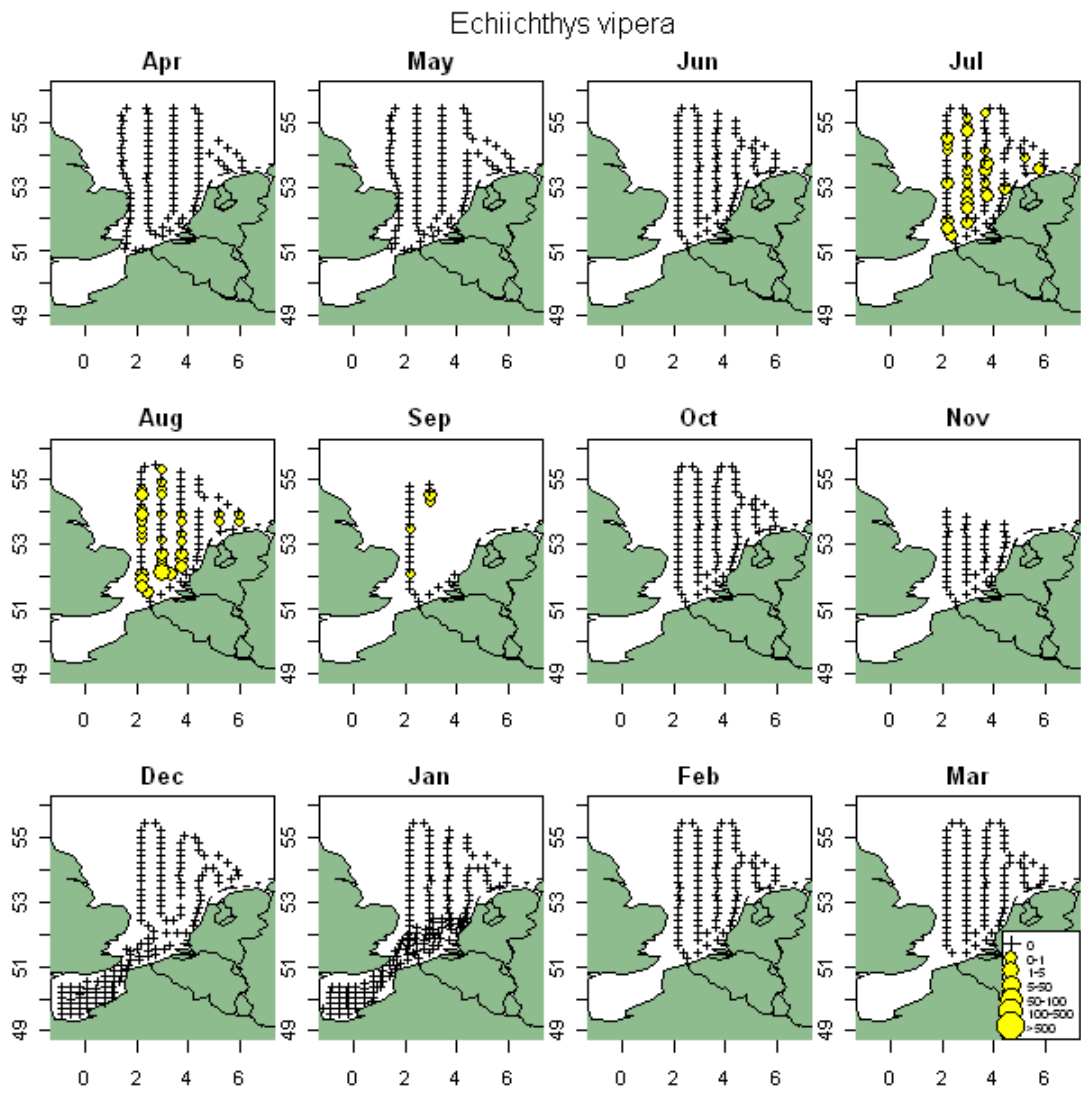


Figure 22h. Spatial and temporal distribution of bent notochord stage lesser weever larvae.



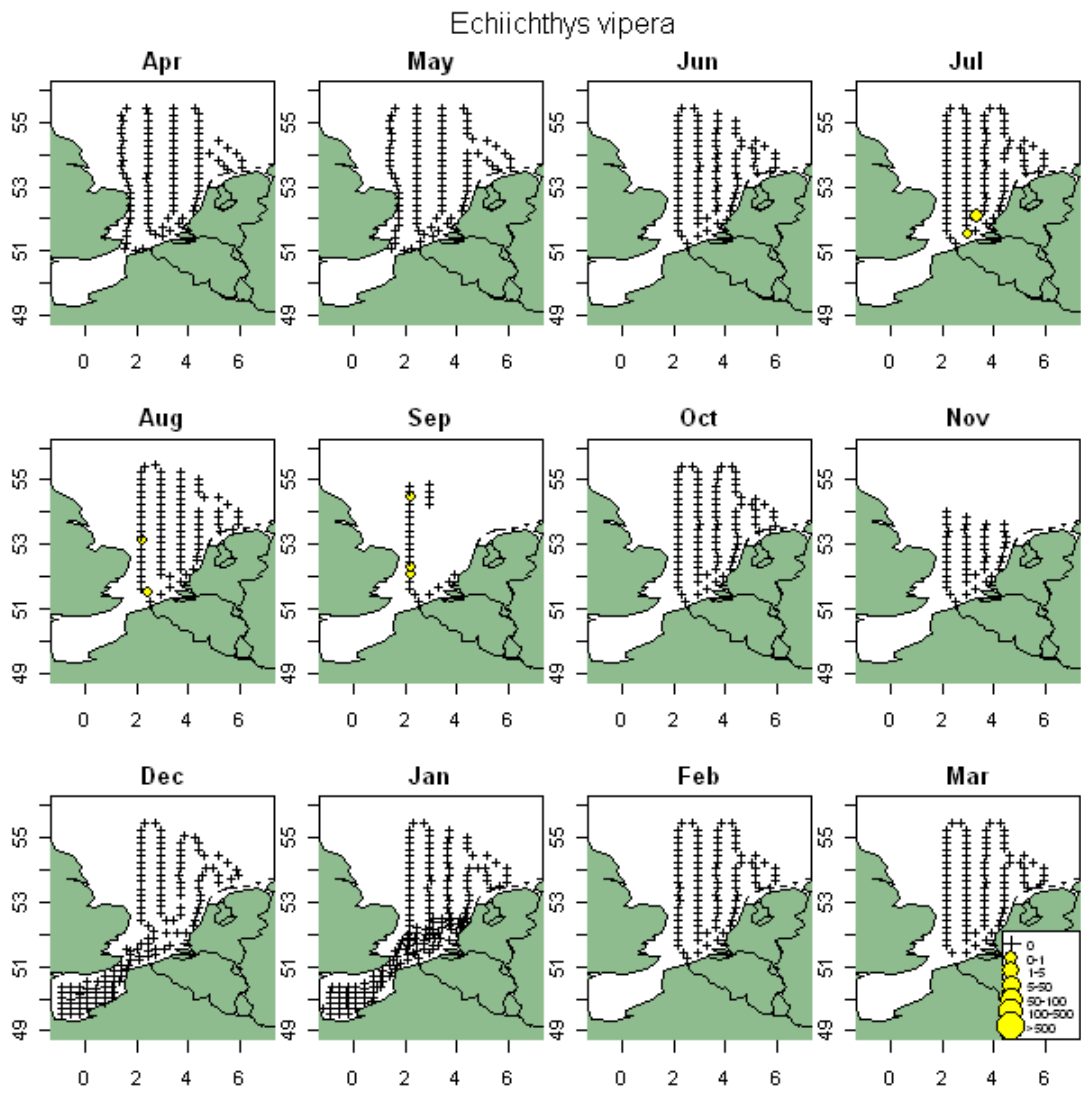


Figure 22i. Spatial and temporal distribution of metamorphosing lesser weever larvae.

**Greater weever *Trachinus draco***

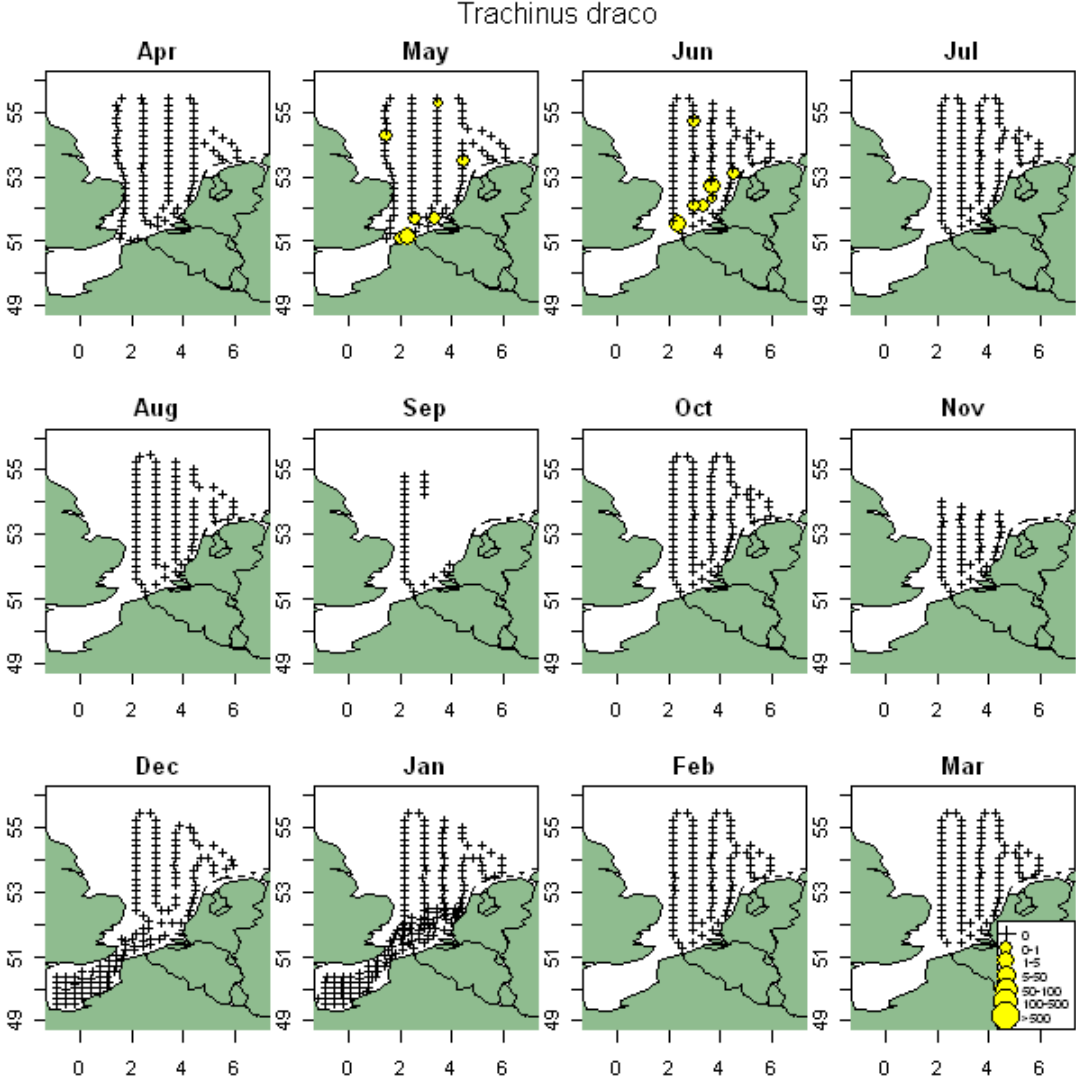


Figure 23a. Spatial and temporal distribution of stage 1 greater weever eggs.

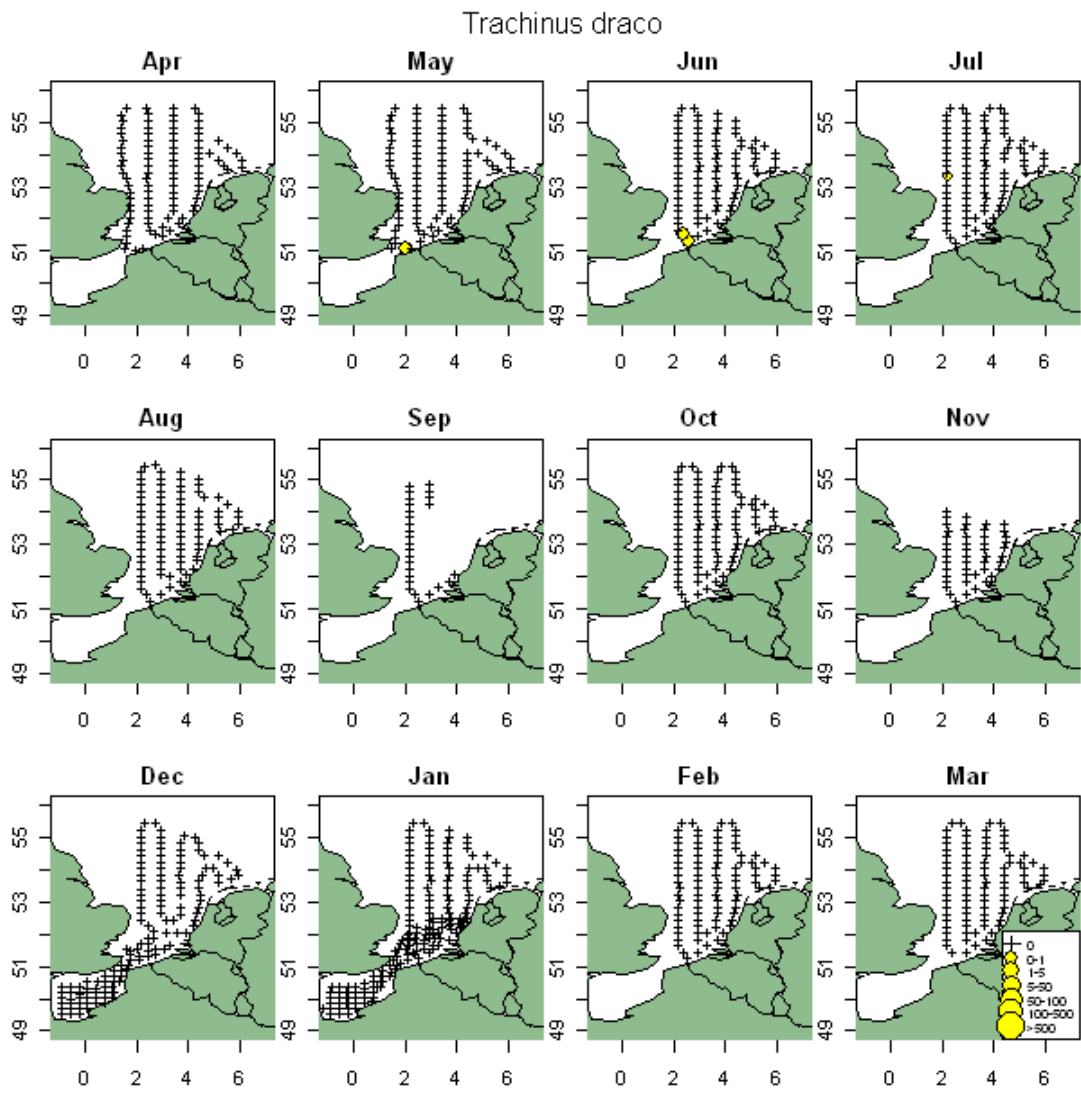


Figure 23b. Spatial and temporal distribution of stage 2 greater weever eggs.

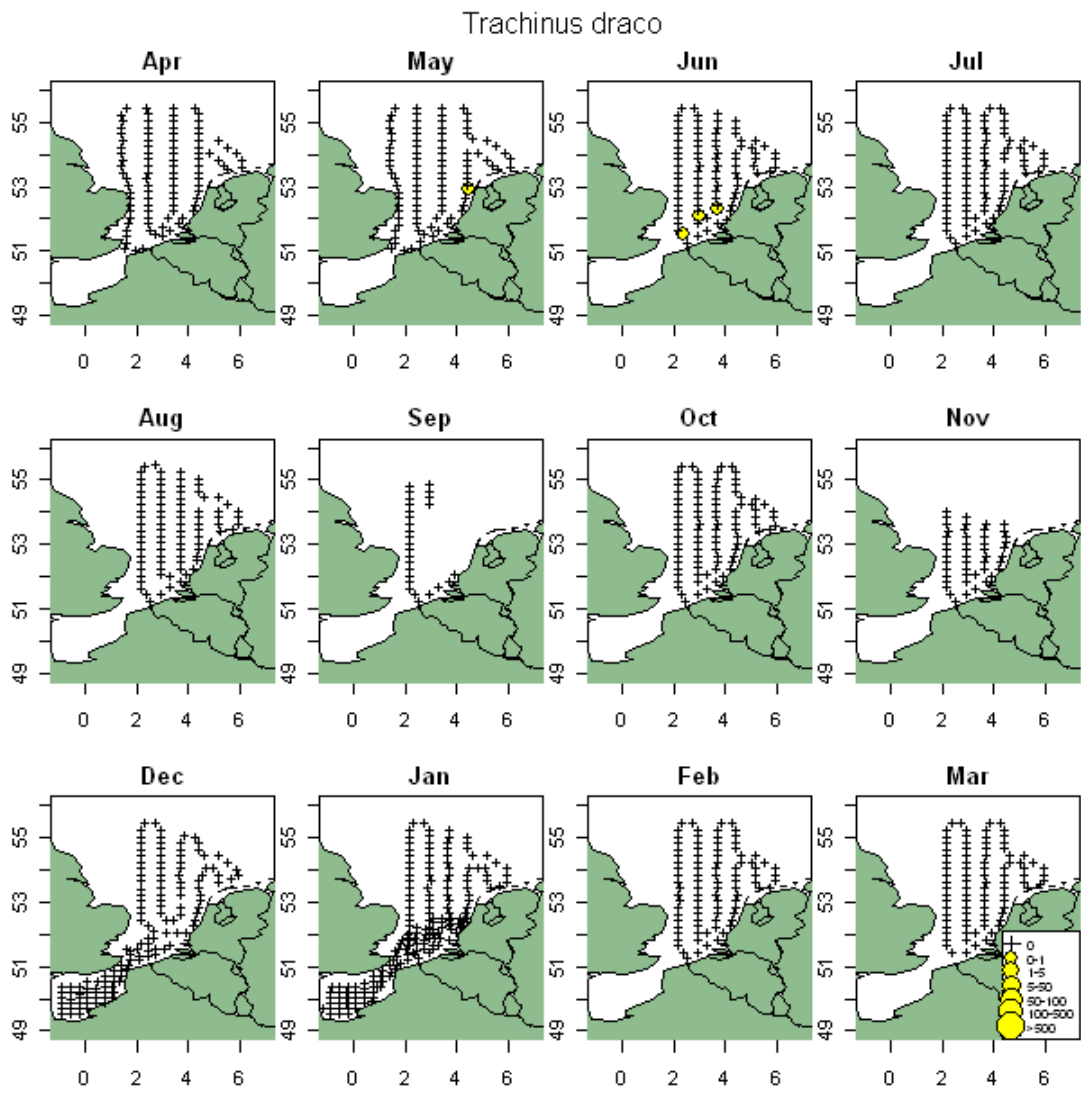


Figure 23c. Spatial and temporal distribution of stage 3 greater weever eggs.

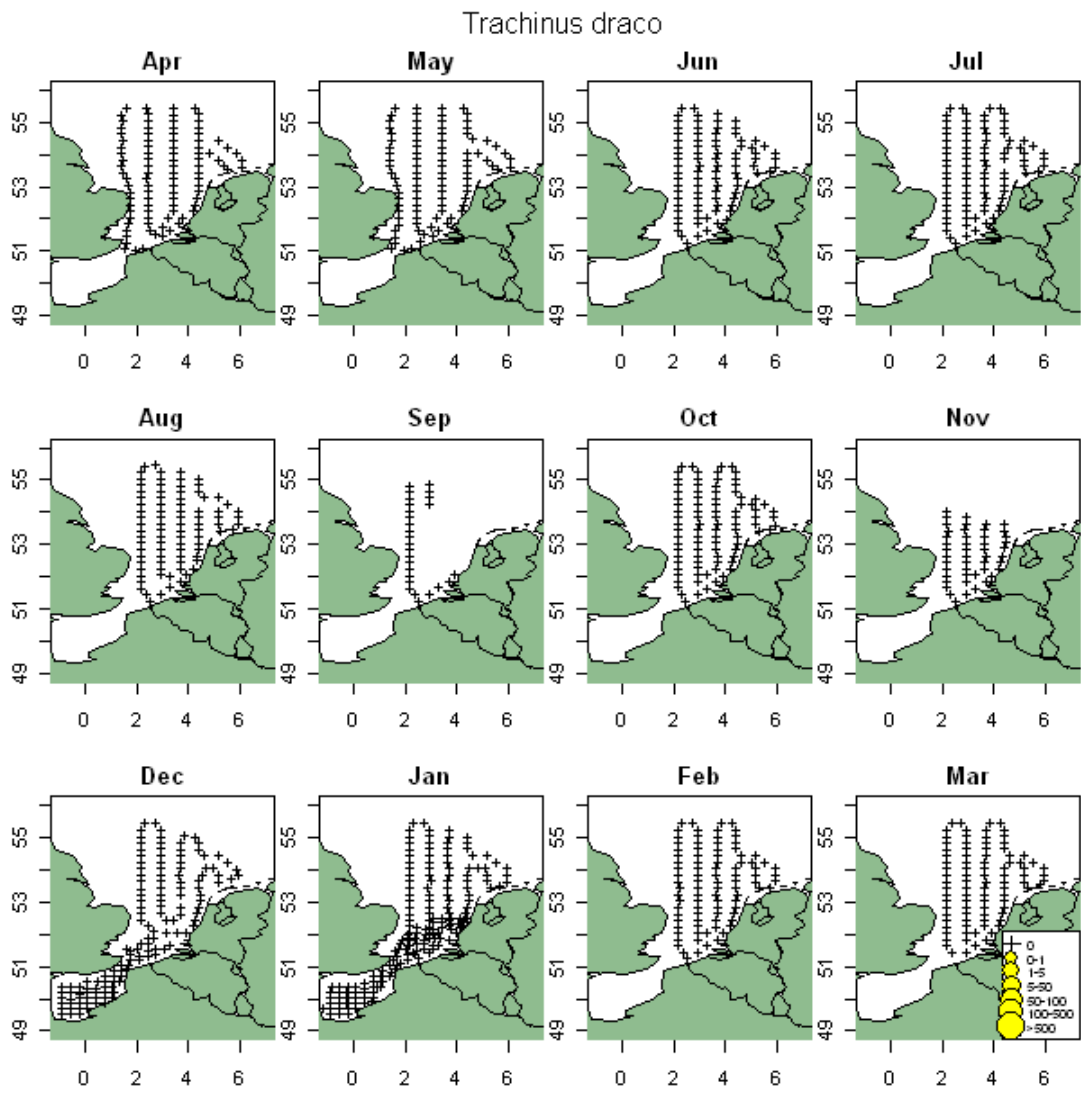


Figure 23d. Spatial and temporal distribution of stage 4 greater weever eggs.

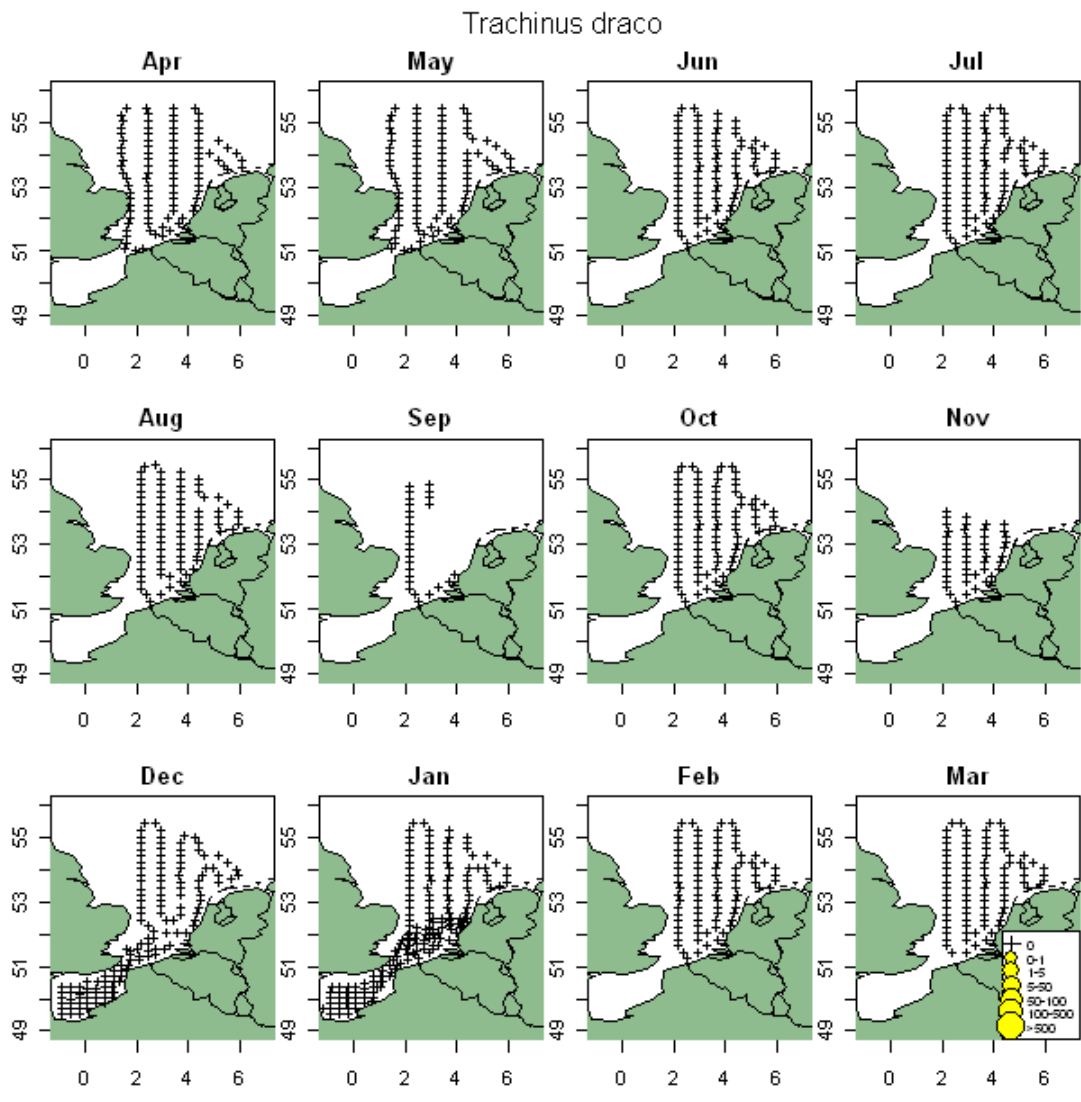


Figure 23e. Spatial and temporal distribution of stage 5 greater weever eggs.

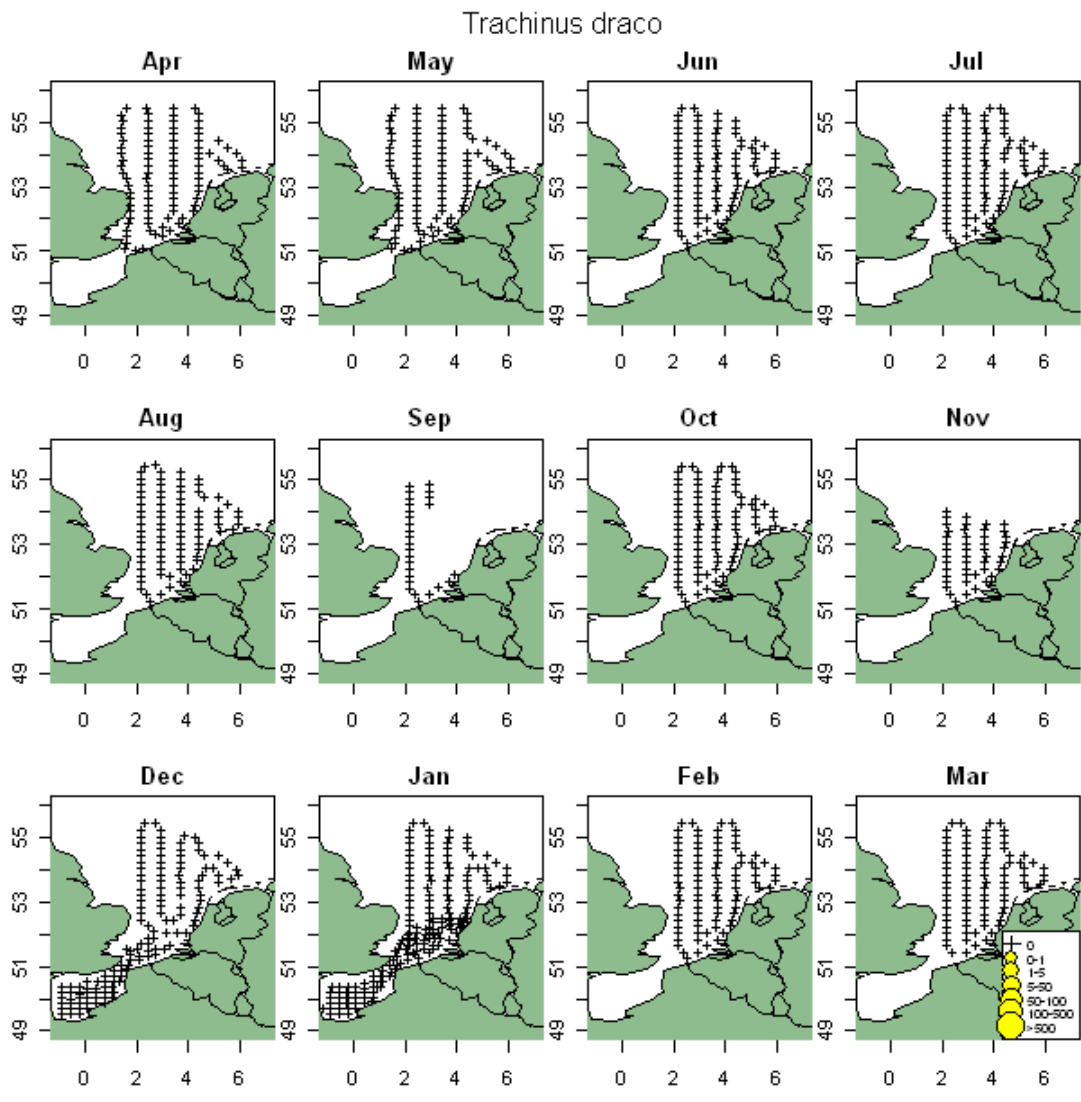


Figure 23f. Spatial and temporal distribution of yolk sac greater weever larvae.

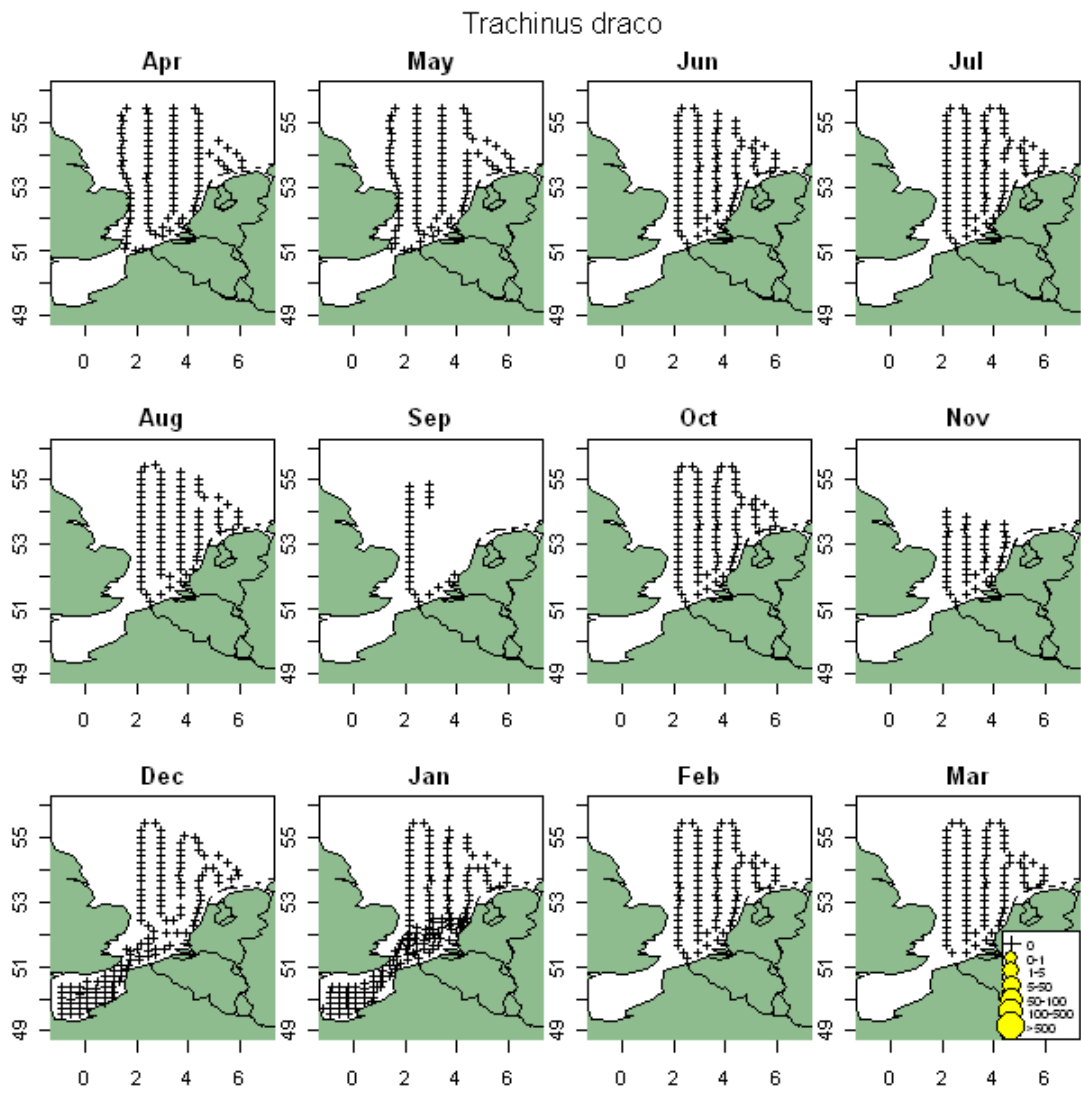


Figure 23g. Spatial and temporal distribution of non-yolk sac greater weever larvae.



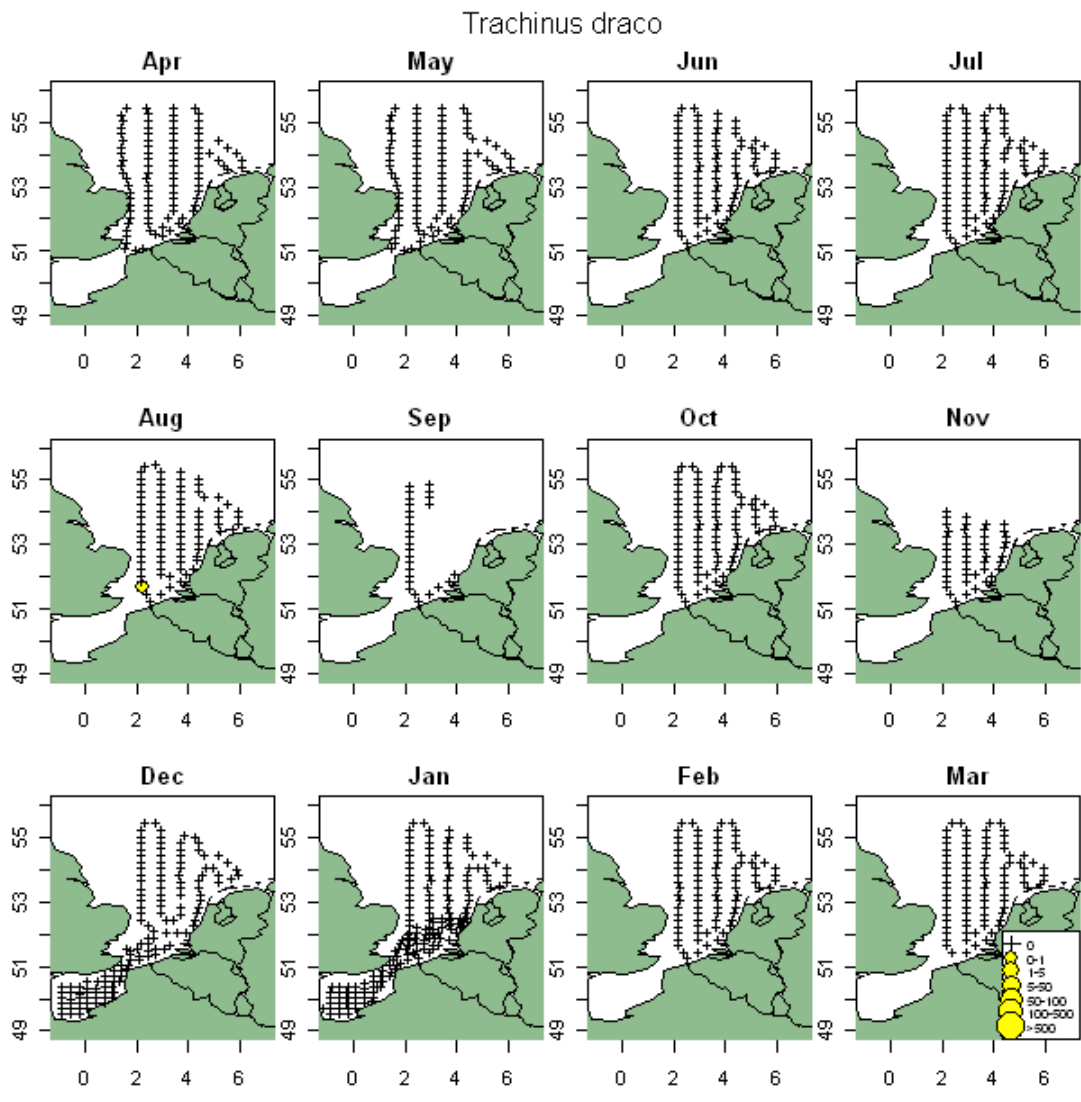


Figure 23h. Spatial and temporal distribution of bent notochord stage greater weever larvae.

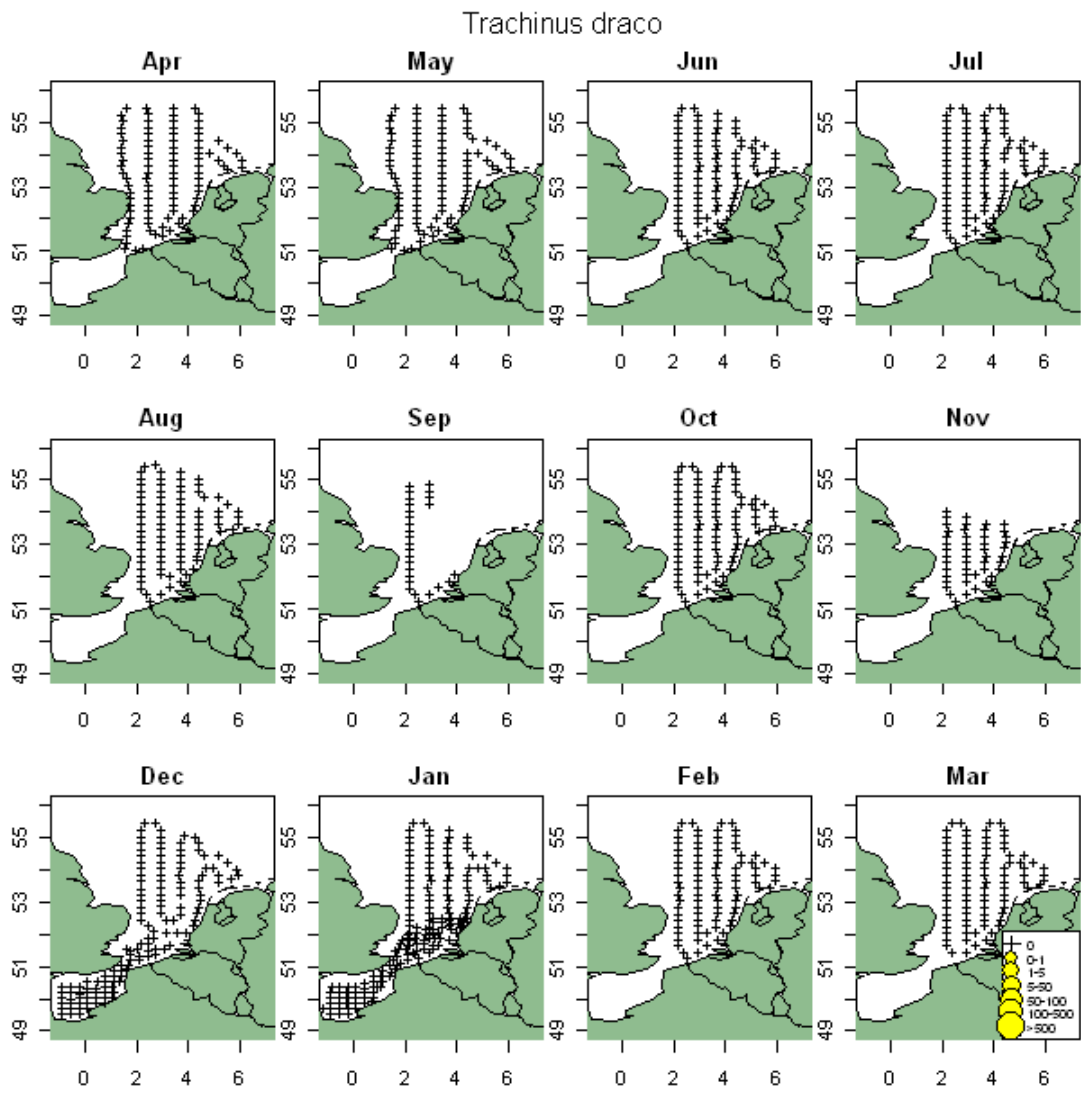


Figure 23i. Spatial and temporal distribution of metamorphosing greater weever larvae.

**Mackerel *Scomber scombrus***

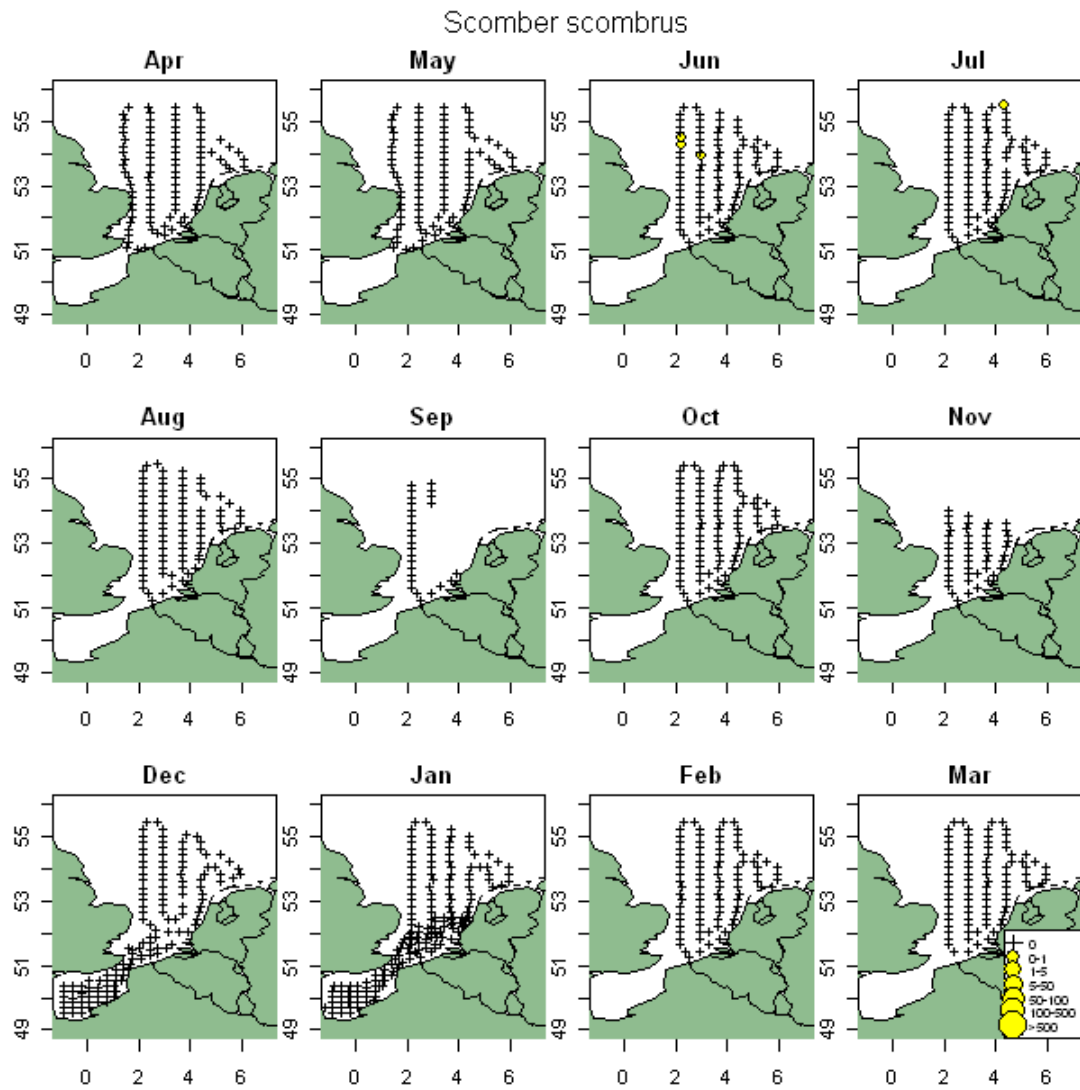


Figure 24a. Spatial and temporal distribution of yolk sac mackerel larvae.

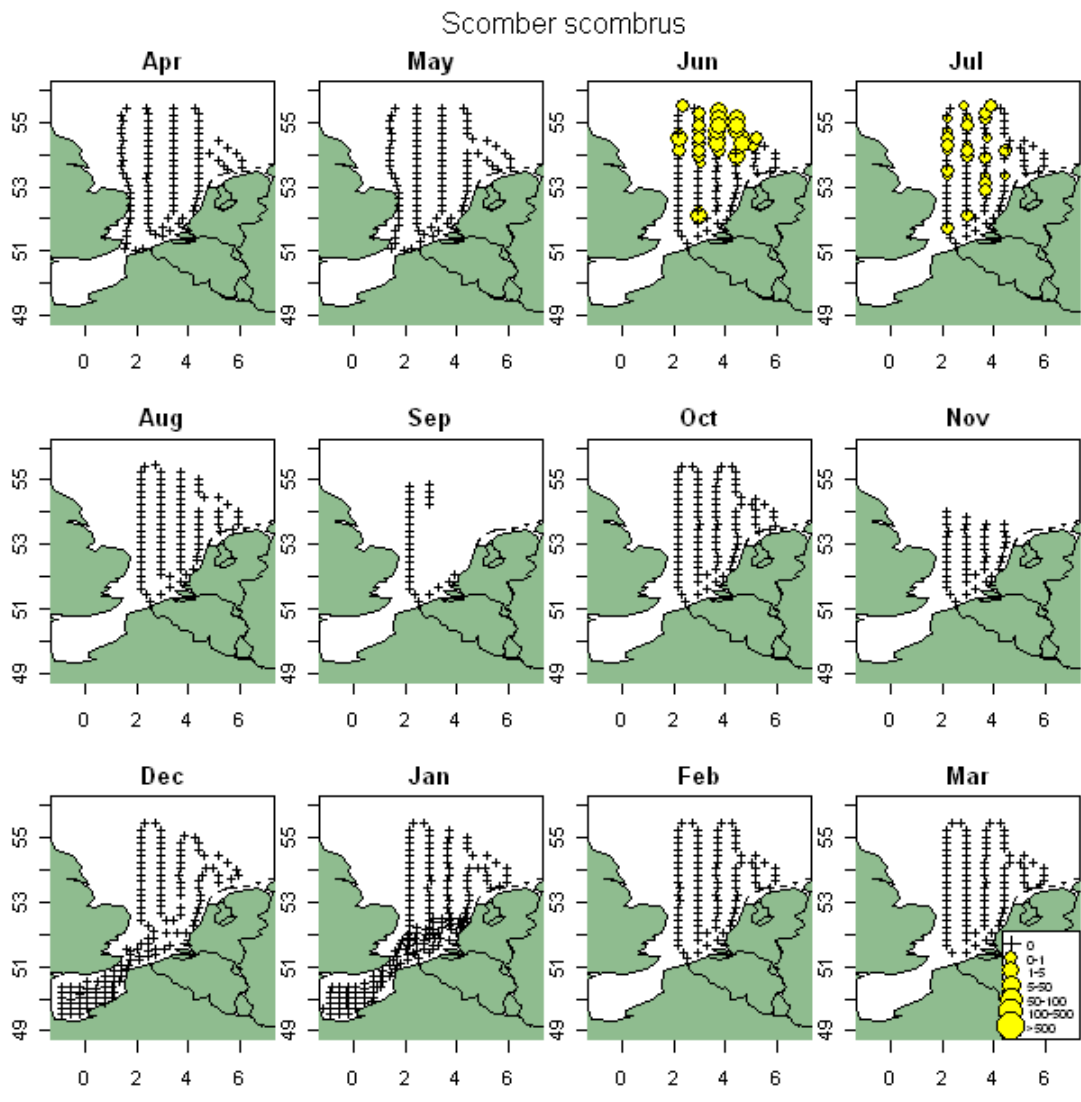


Figure 24b. Spatial and temporal distribution of non-yolk sac mackerel larvae.

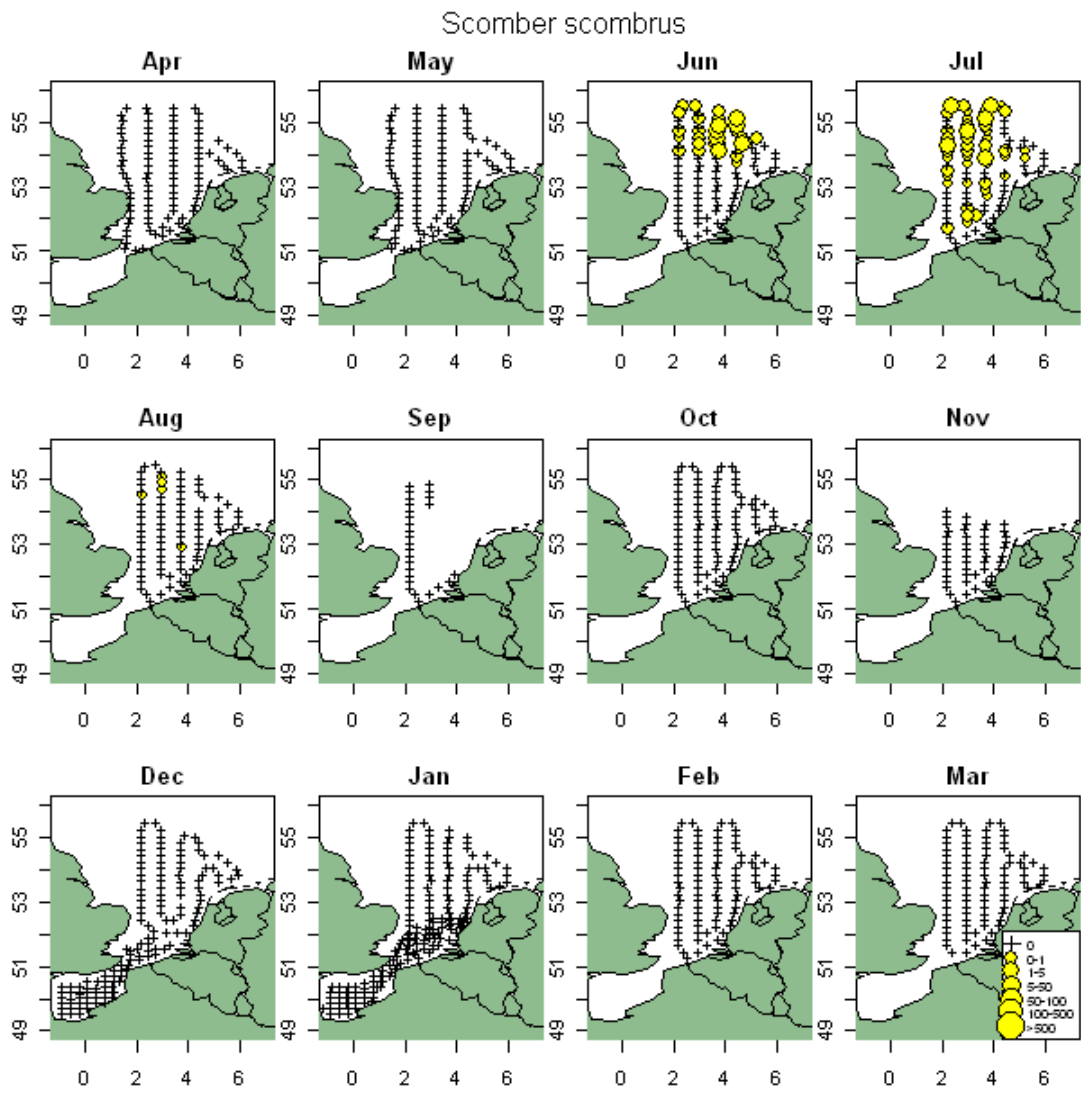


Figure 24c. Spatial and temporal distribution of bent notochord stage mackerel larvae.

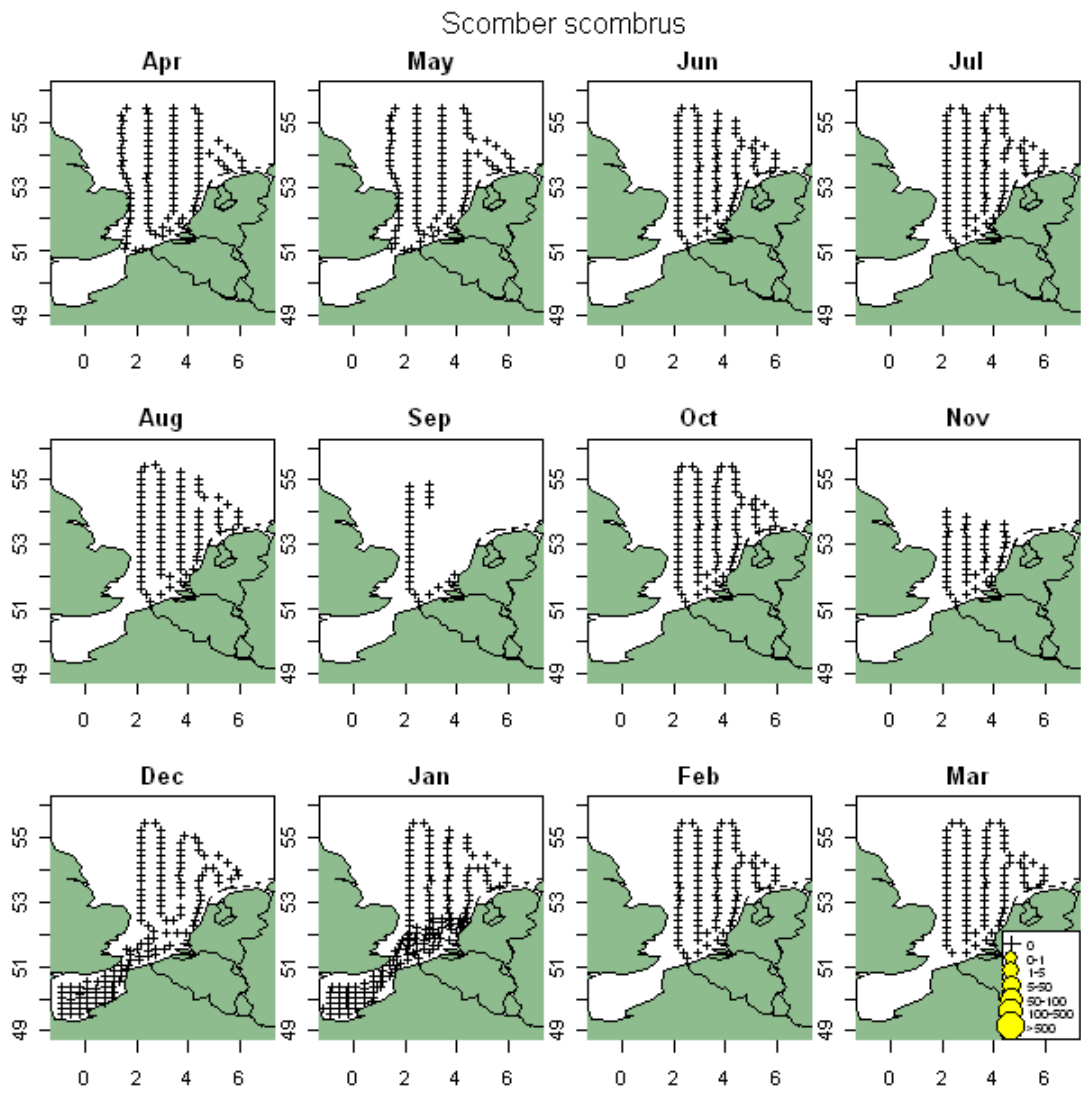


Figure 24d. Spatial and temporal distribution of metamorphosing mackerel larvae.

## Gobiidae

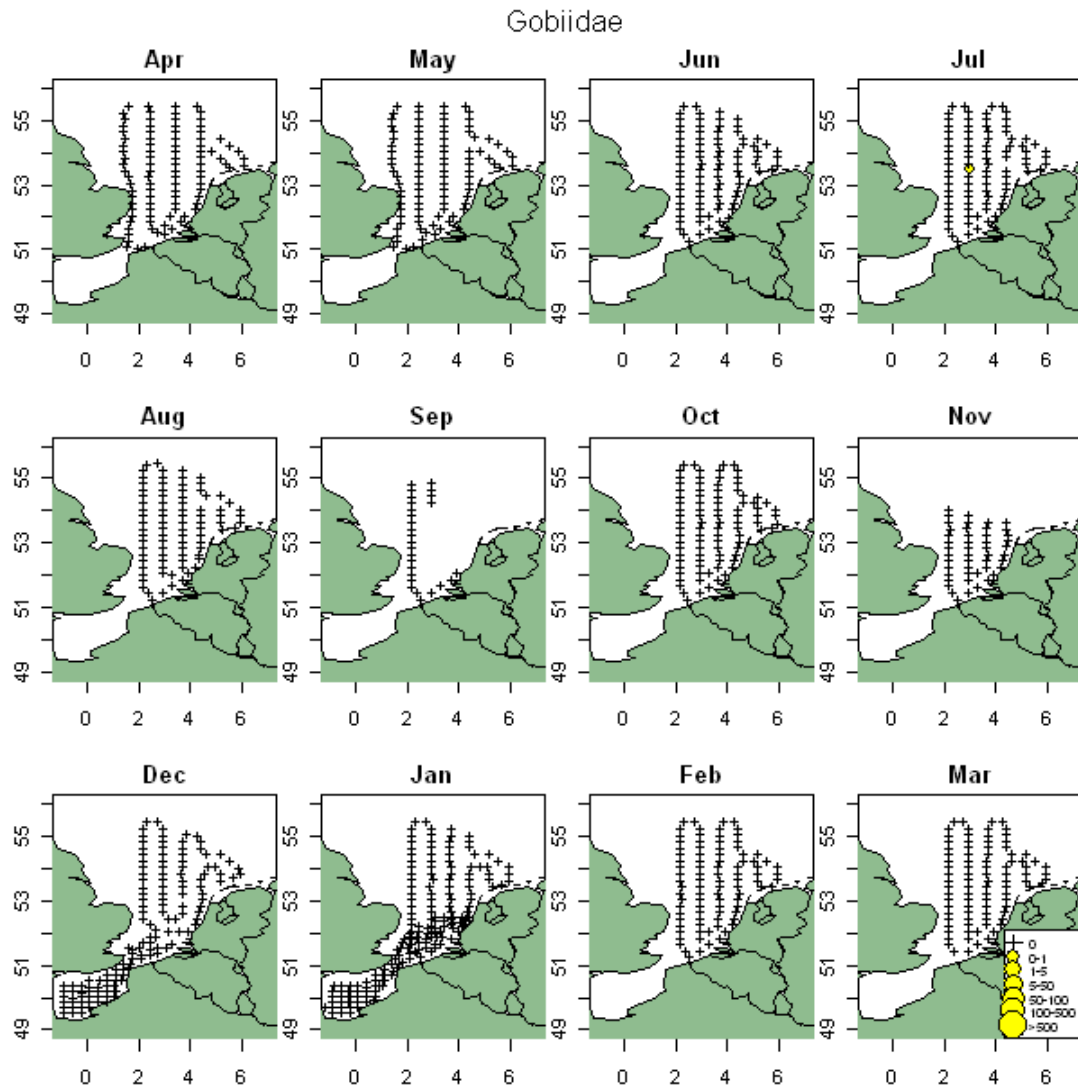


Figure 25a. Spatial and temporal distribution of yolk sac Gobiidae larvae.

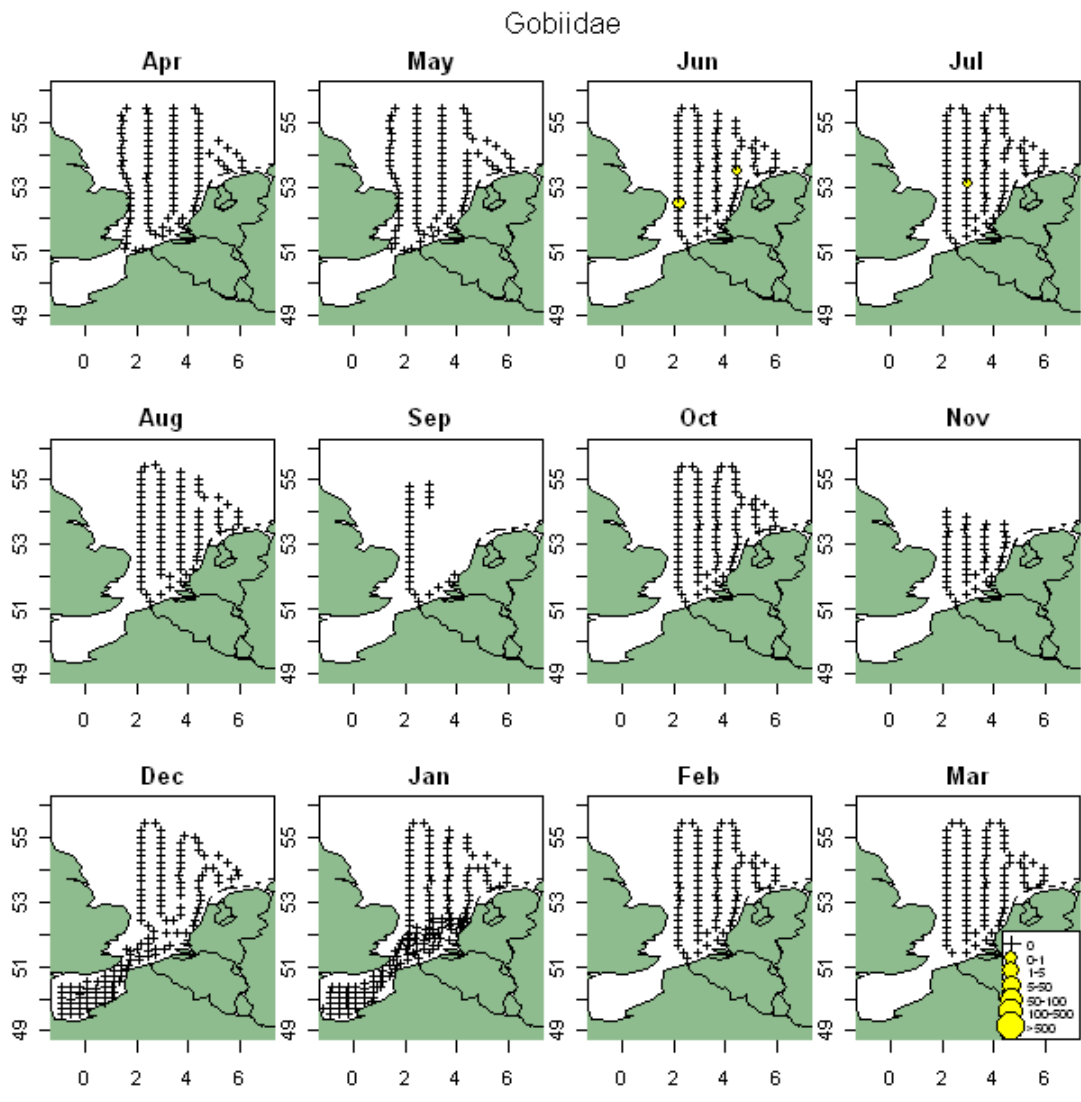


Figure 25b. Spatial and temporal distribution of non-yolk sac Gobiidae larvae.



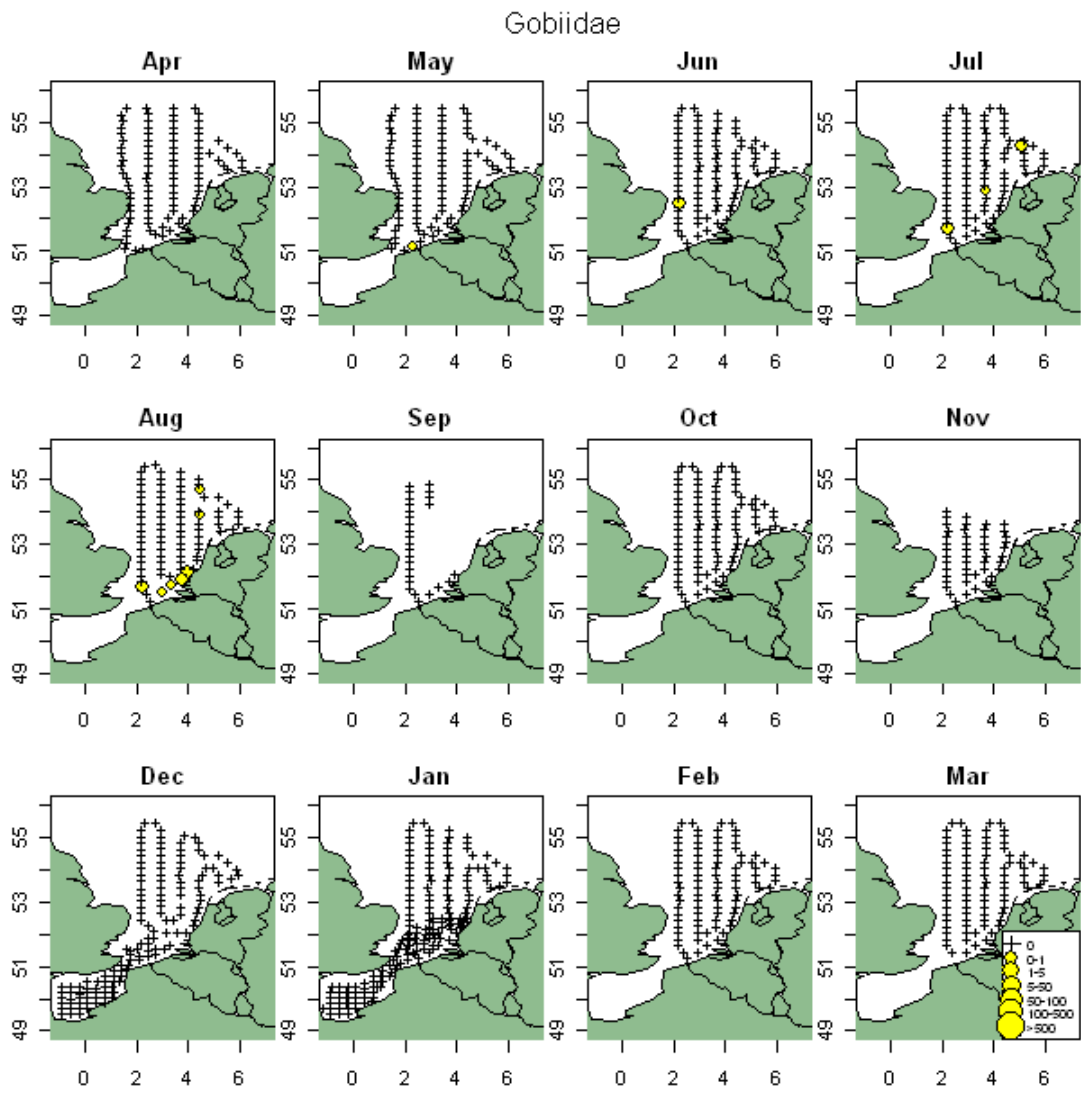


Figure 25c. Spatial and temporal distribution of bent notochord stage Gobiidae larvae.

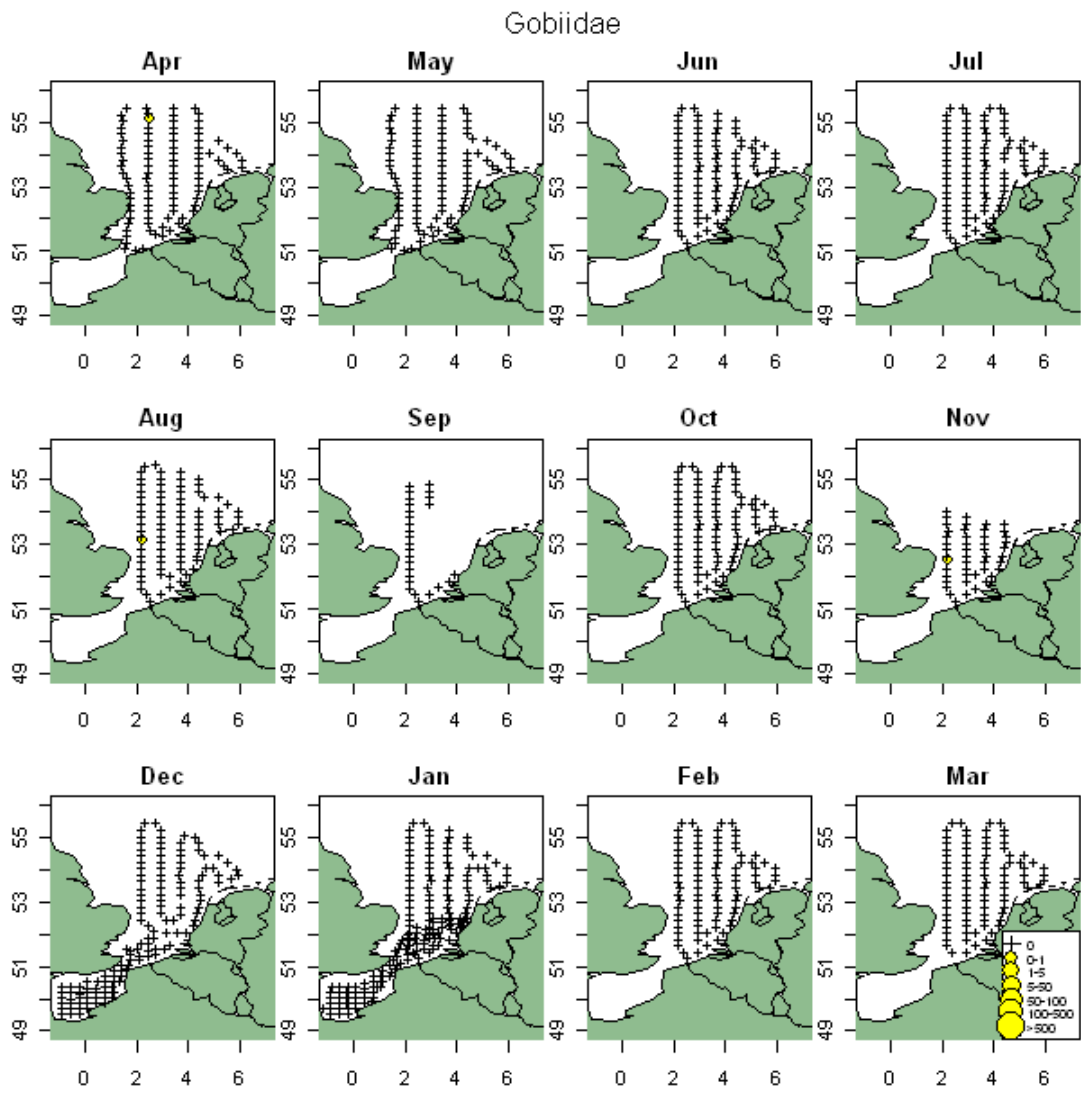


Figure 25d. Spatial and temporal distribution of metamorphosing Gobiidae larvae.

**Black goby *Gobius niger***

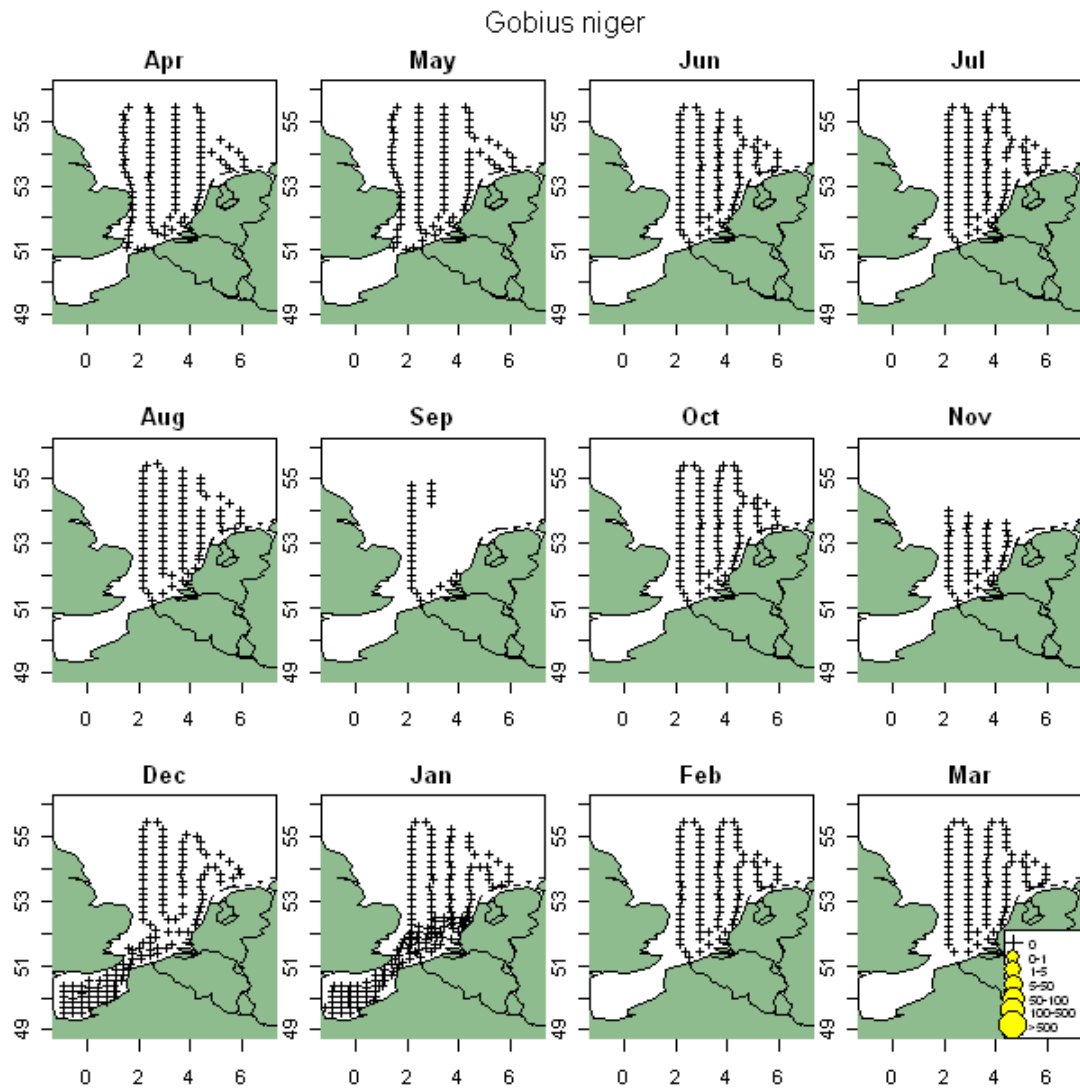


Figure 26a. Spatial and temporal distribution of yolk sac black goby larvae.

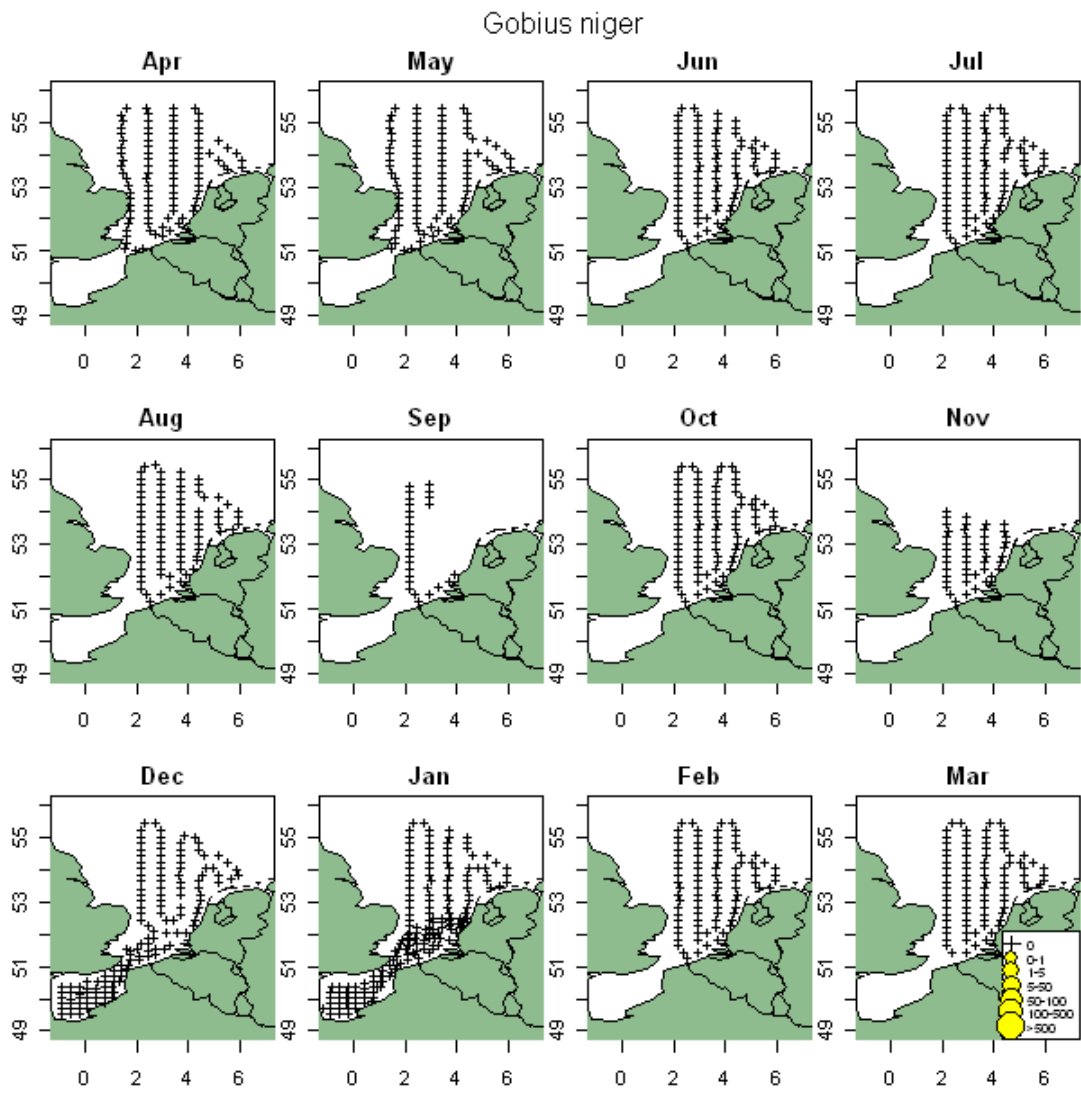


Figure 26b. Spatial and temporal distribution of non-yolk sac black goby larvae.

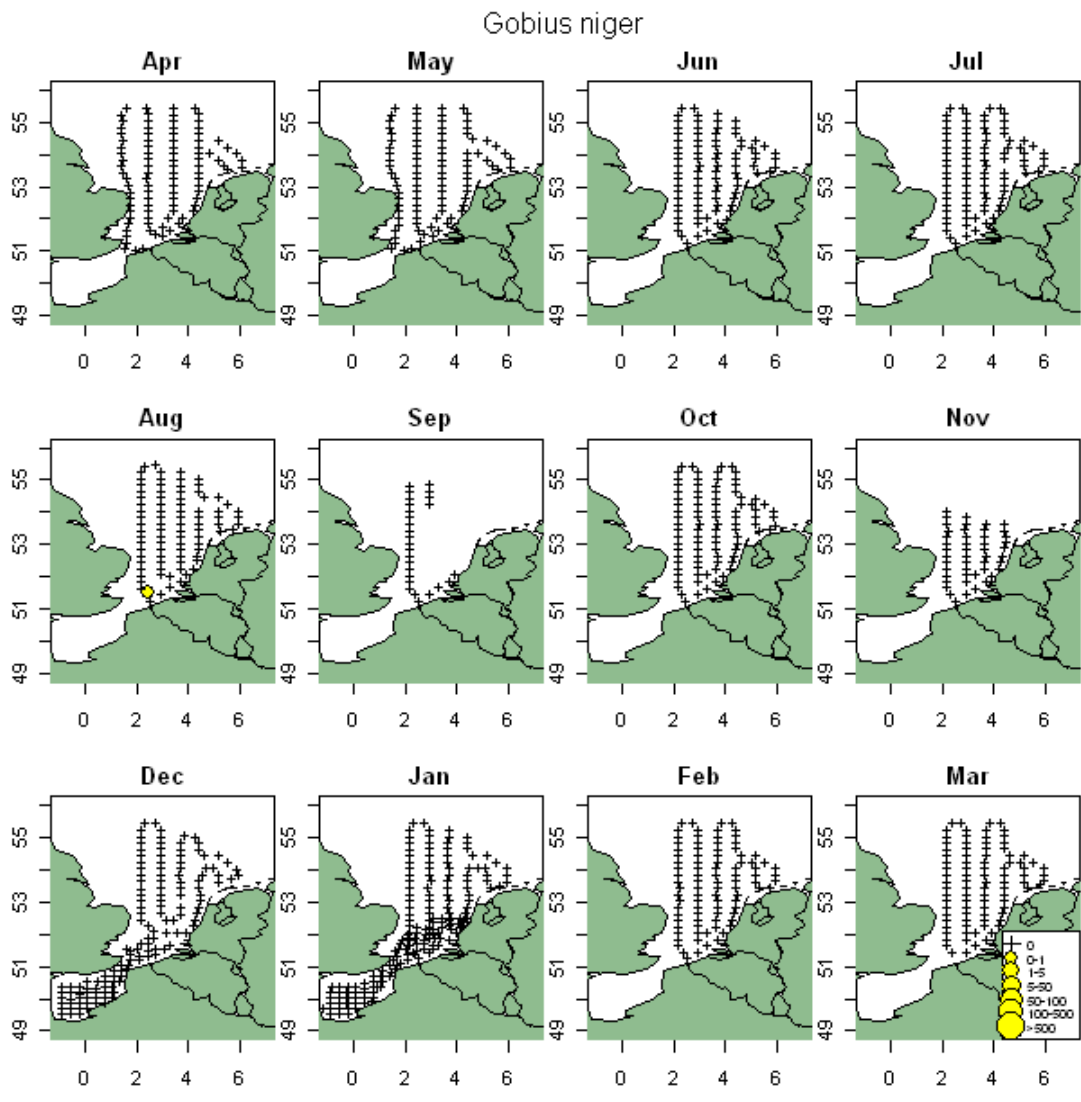


Figure 26c. Spatial and temporal distribution of bent notochord stage black goby larvae.

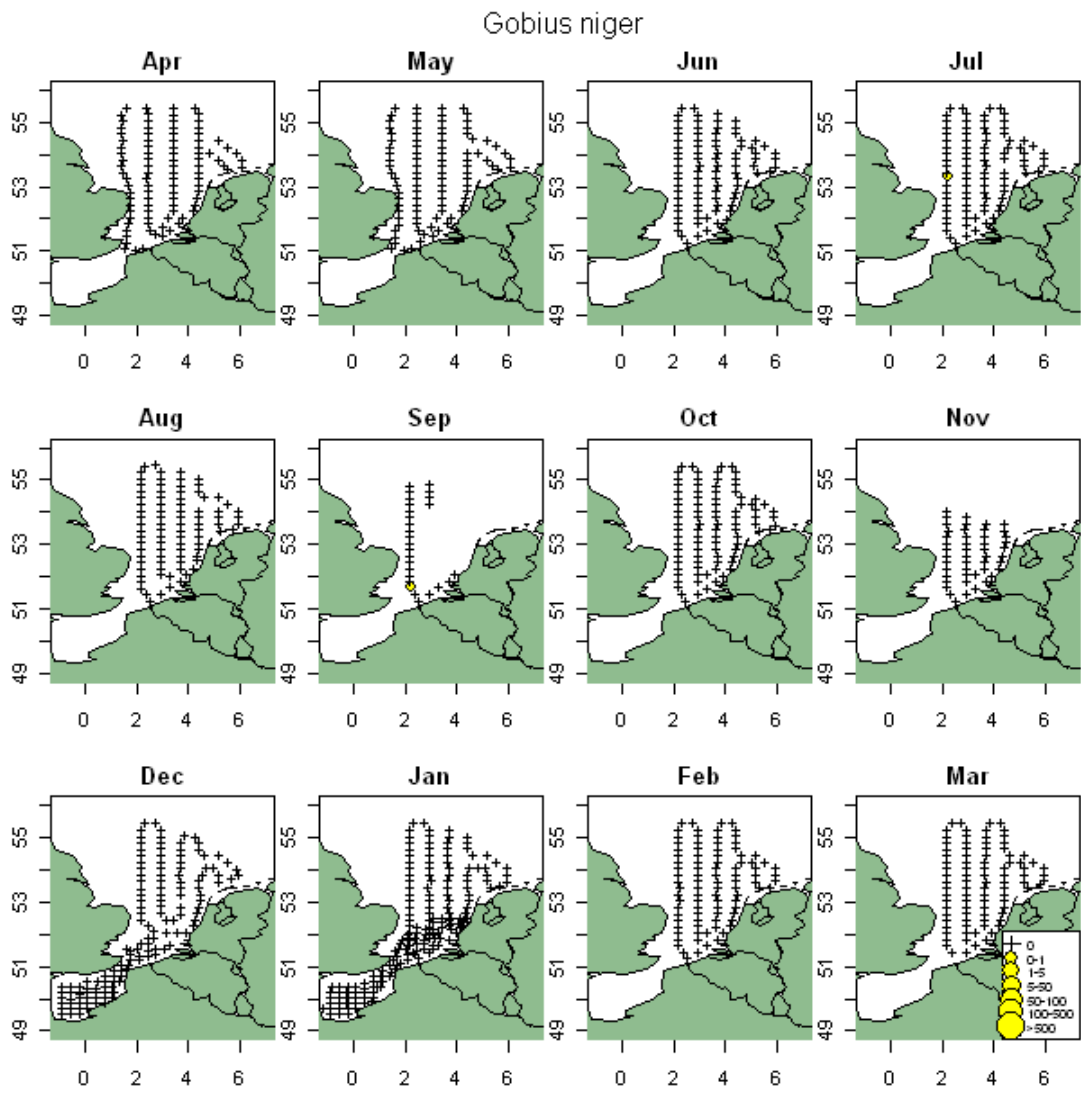


Figure 26d. Spatial and temporal distribution of metamorphosing black goby larvae.

**Two-spotted goby *Gobiusculus flavescens***

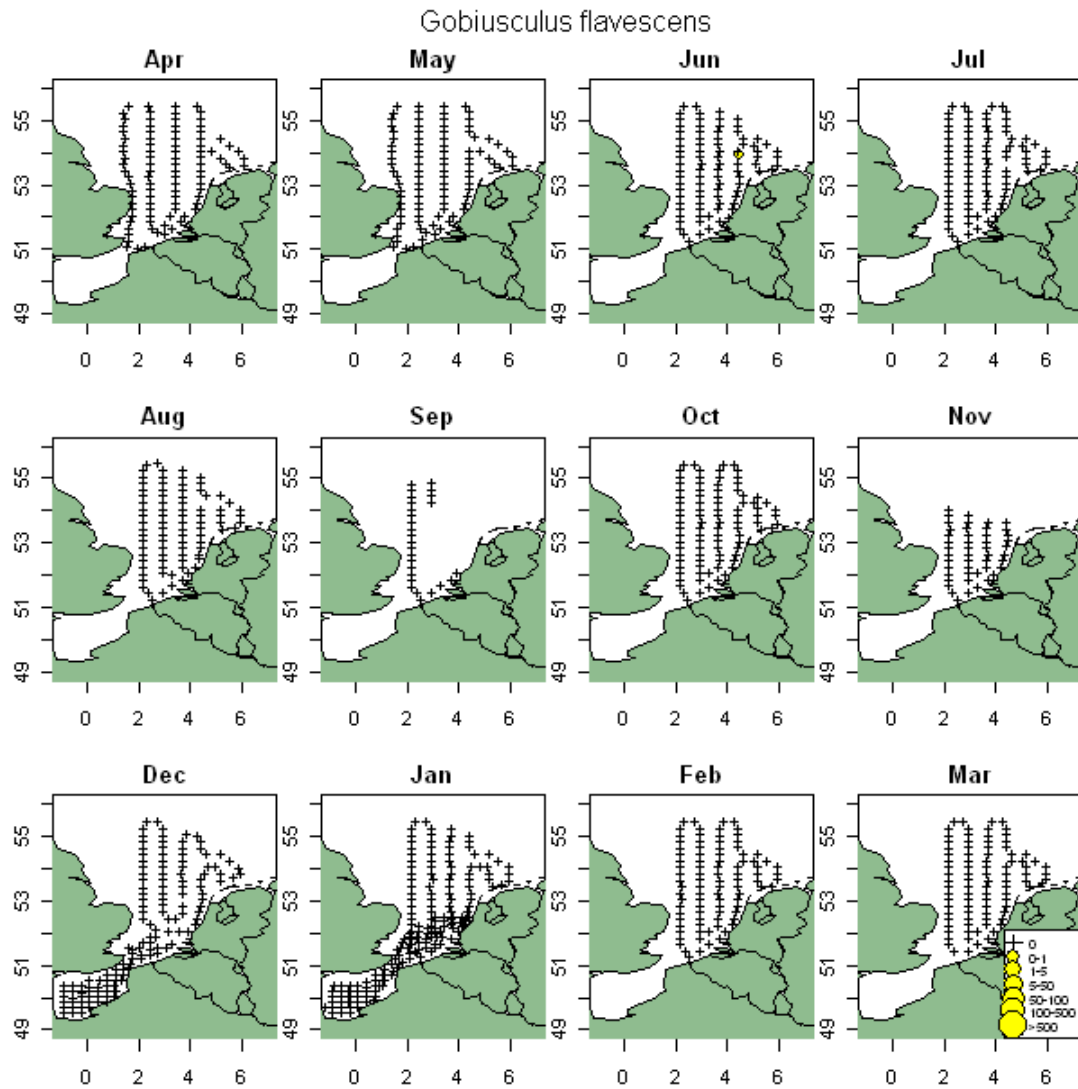


Figure 27a. Spatial and temporal distribution of yolk sac two-spotted goby larvae.

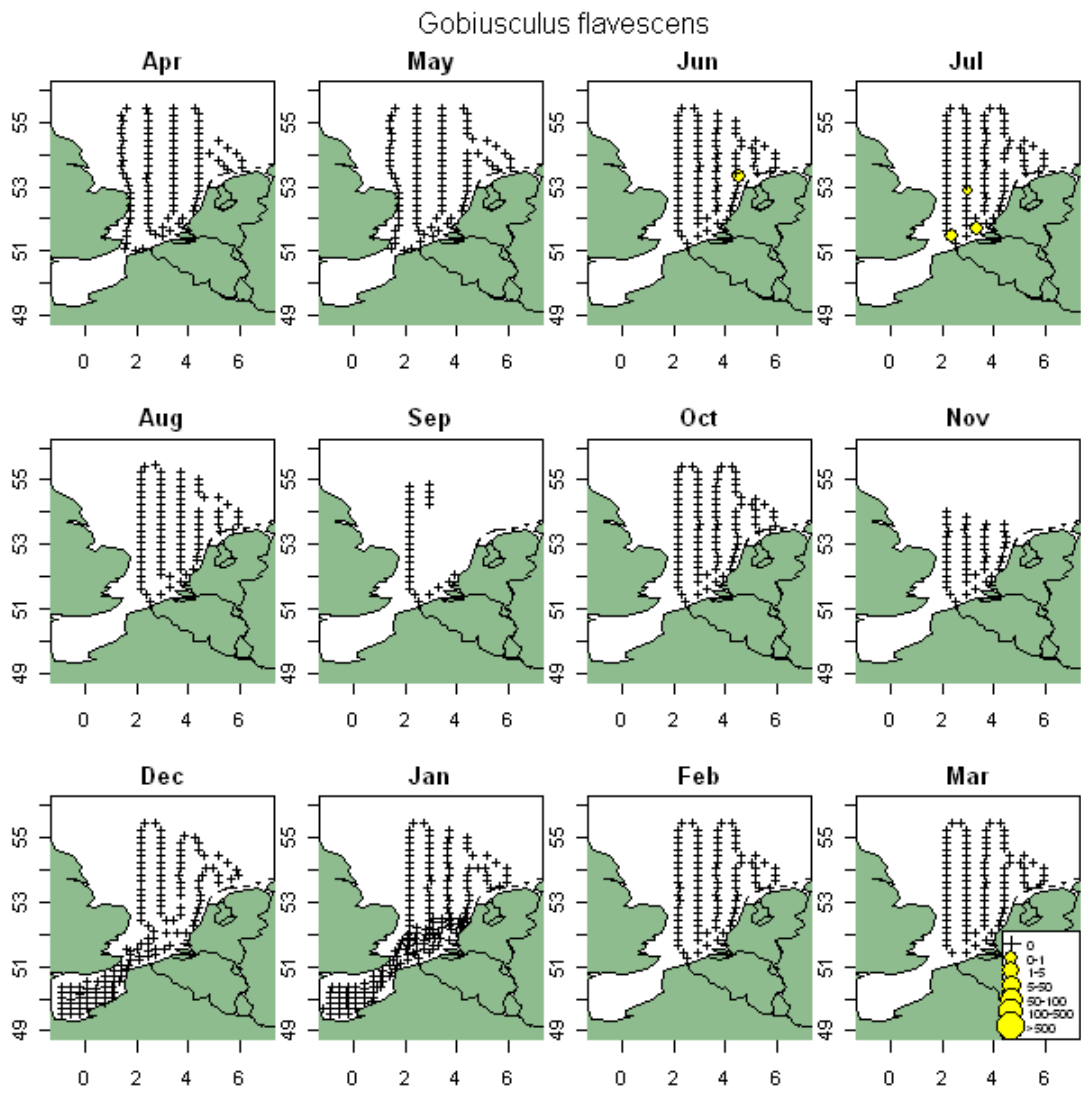


Figure 27b. Spatial and temporal distribution of non-yolk sac two-spotted goby larvae.



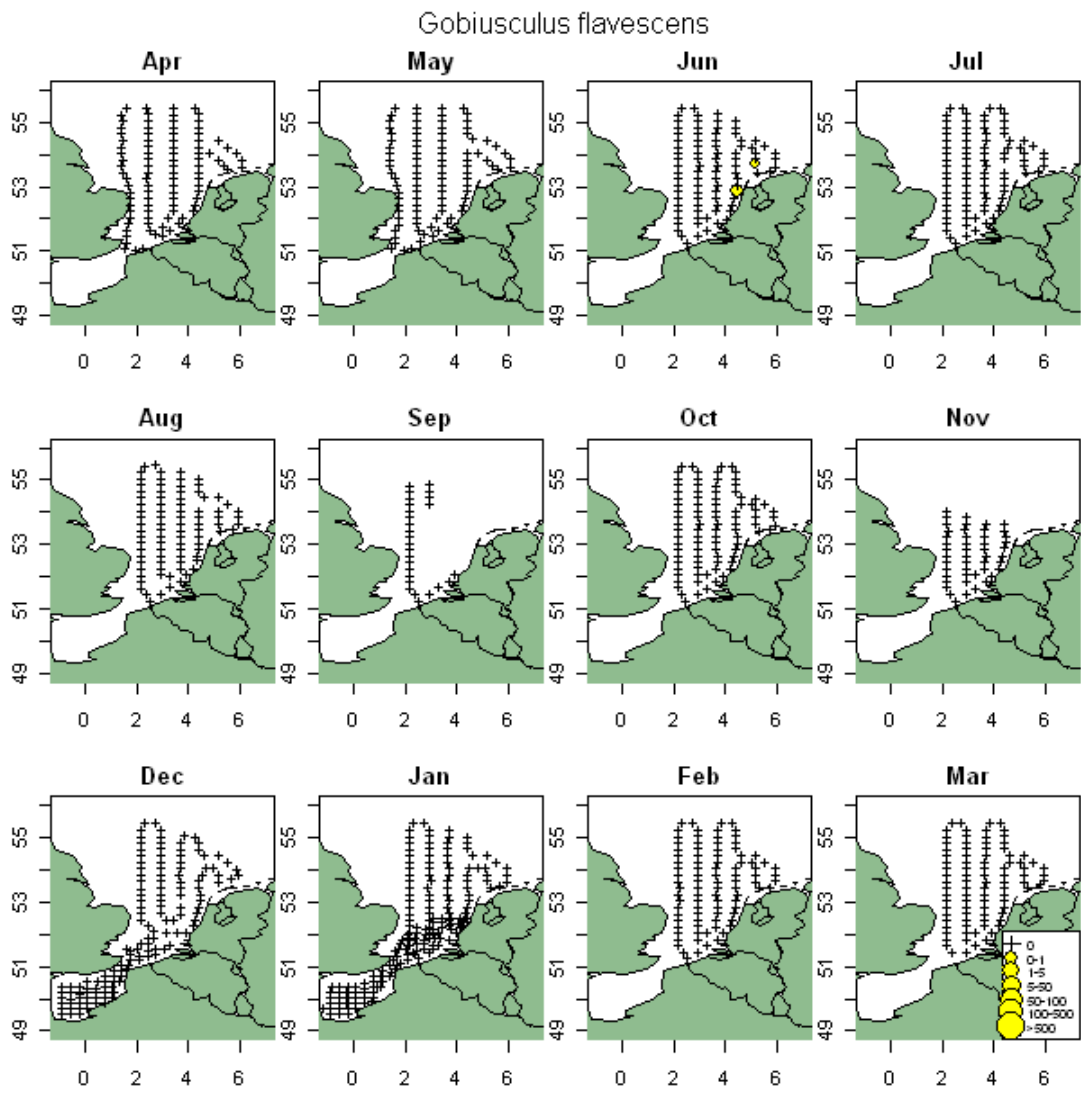


Figure 27c. Spatial and temporal distribution of bent notochord stage two-spotted goby larvae.

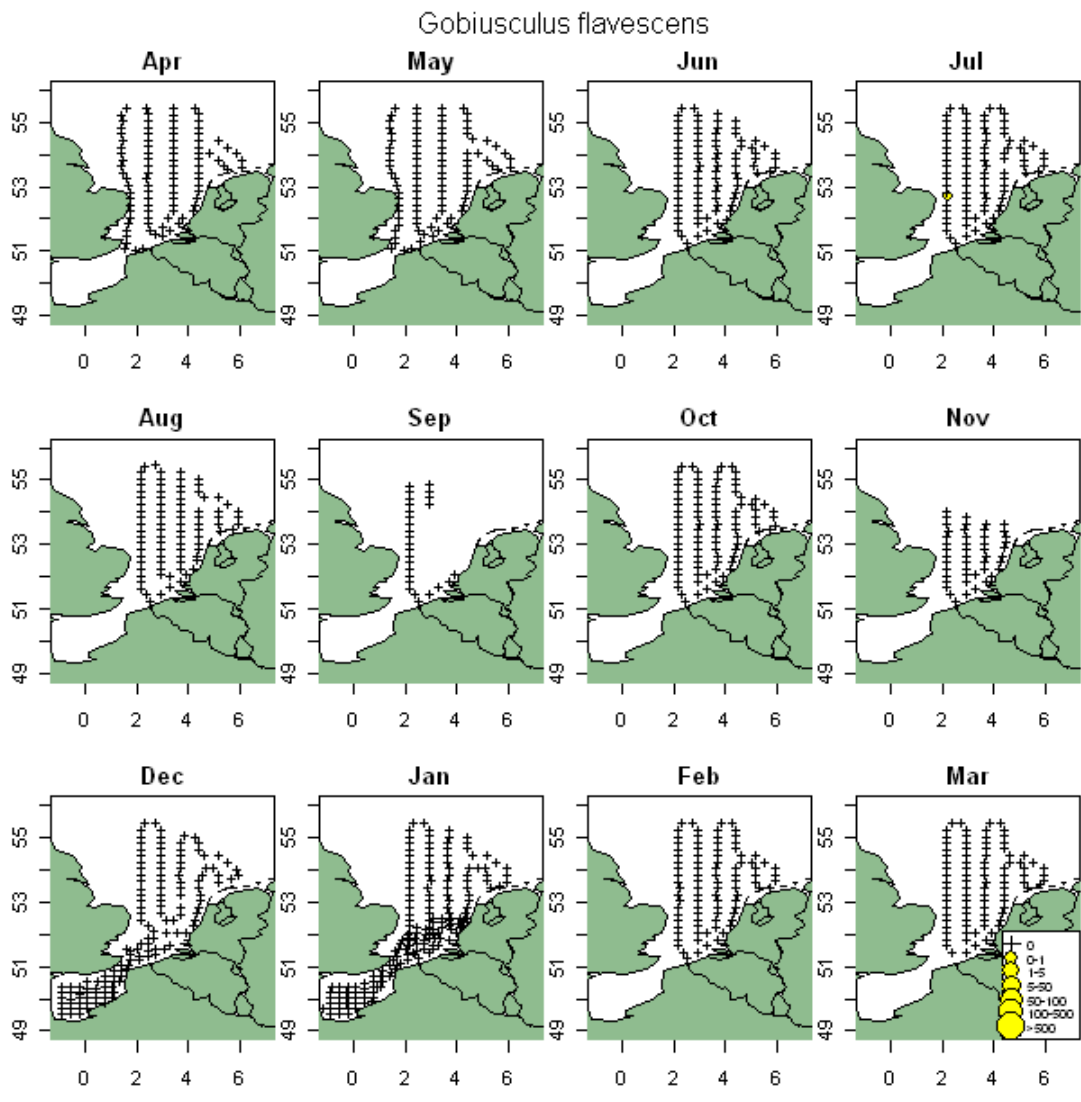


Figure 27d. Spatial and temporal distribution of metamorphosing two-spotted goby larvae.

**Pomatoschistus spp.**

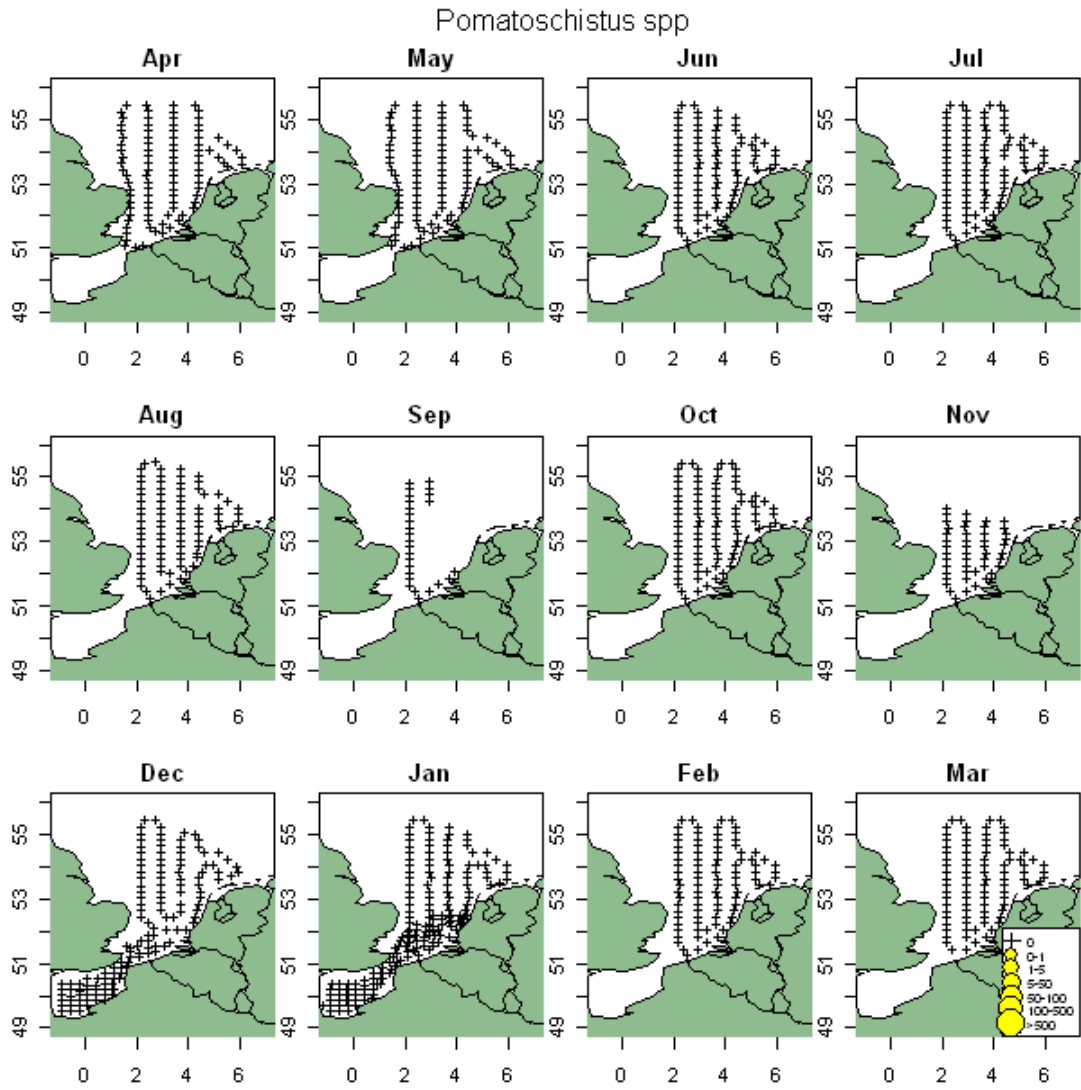


Figure 28a. Spatial and temporal distribution of yolk sac pomatoschistus spp. larvae.

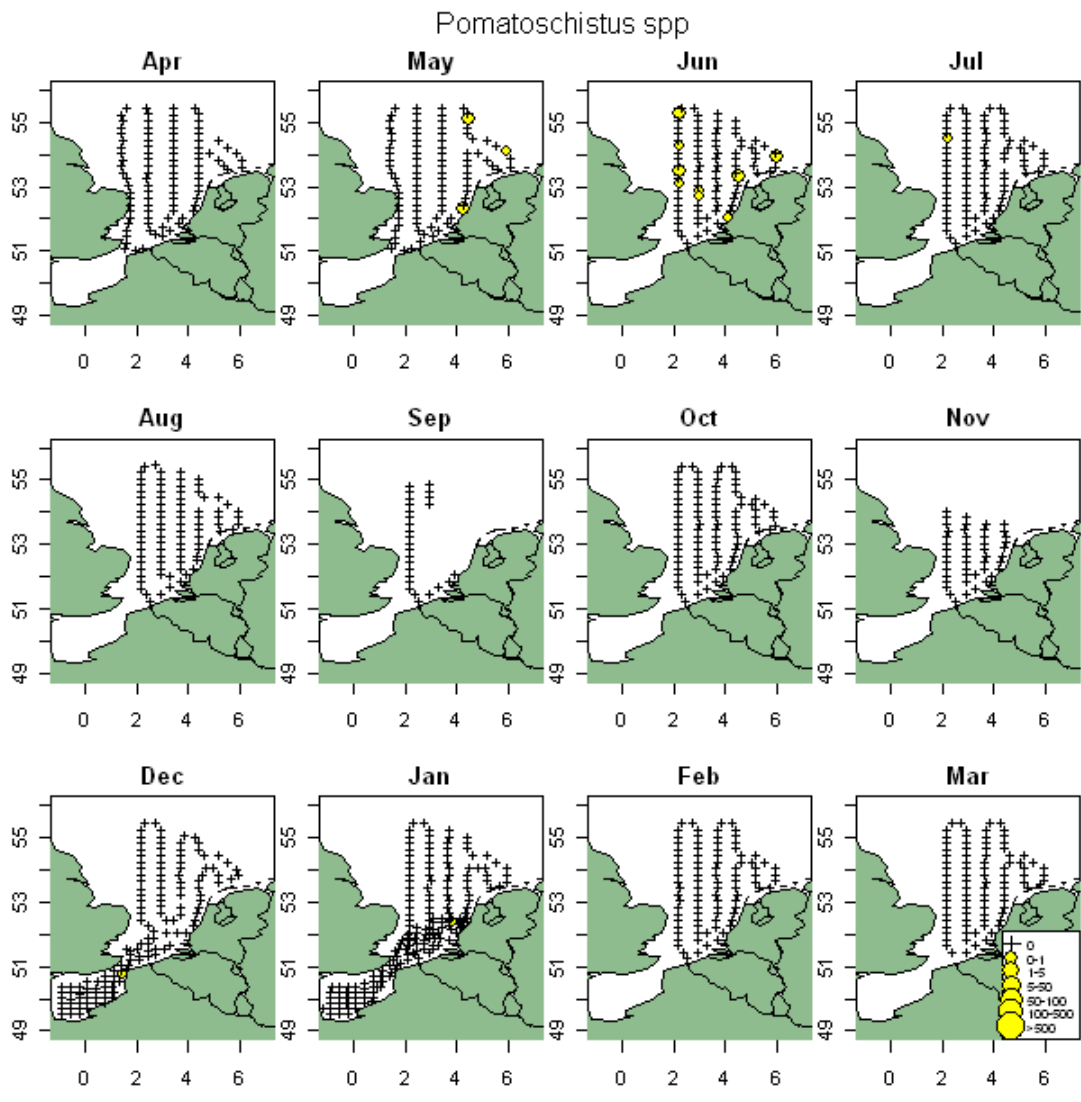


Figure 28b. Spatial and temporal distribution of non-yolk sac pomatoschistus spp. larvae.

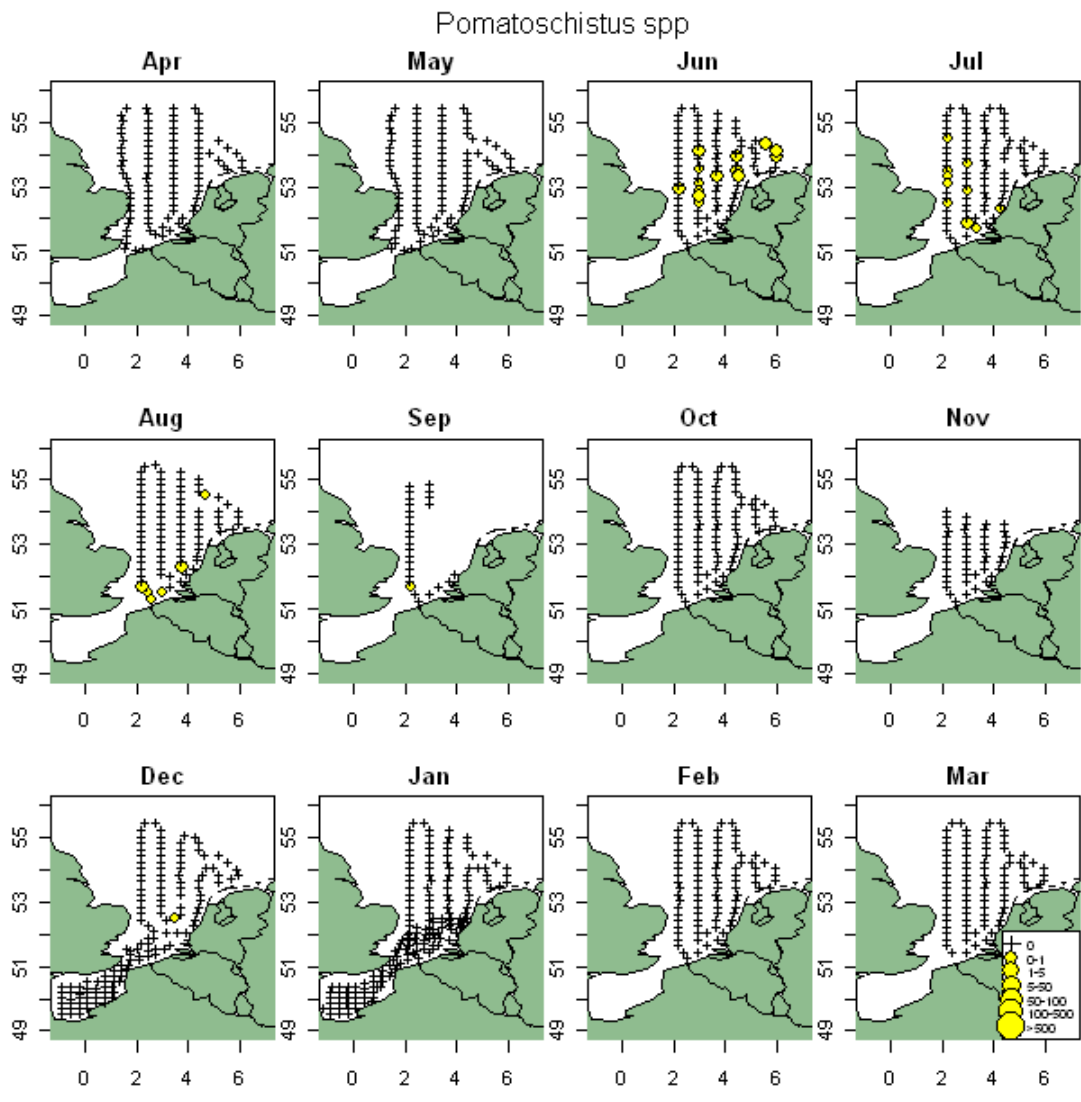


Figure 28c. Spatial and temporal distribution of bent notochord stage pomatoschistus spp. larvae.

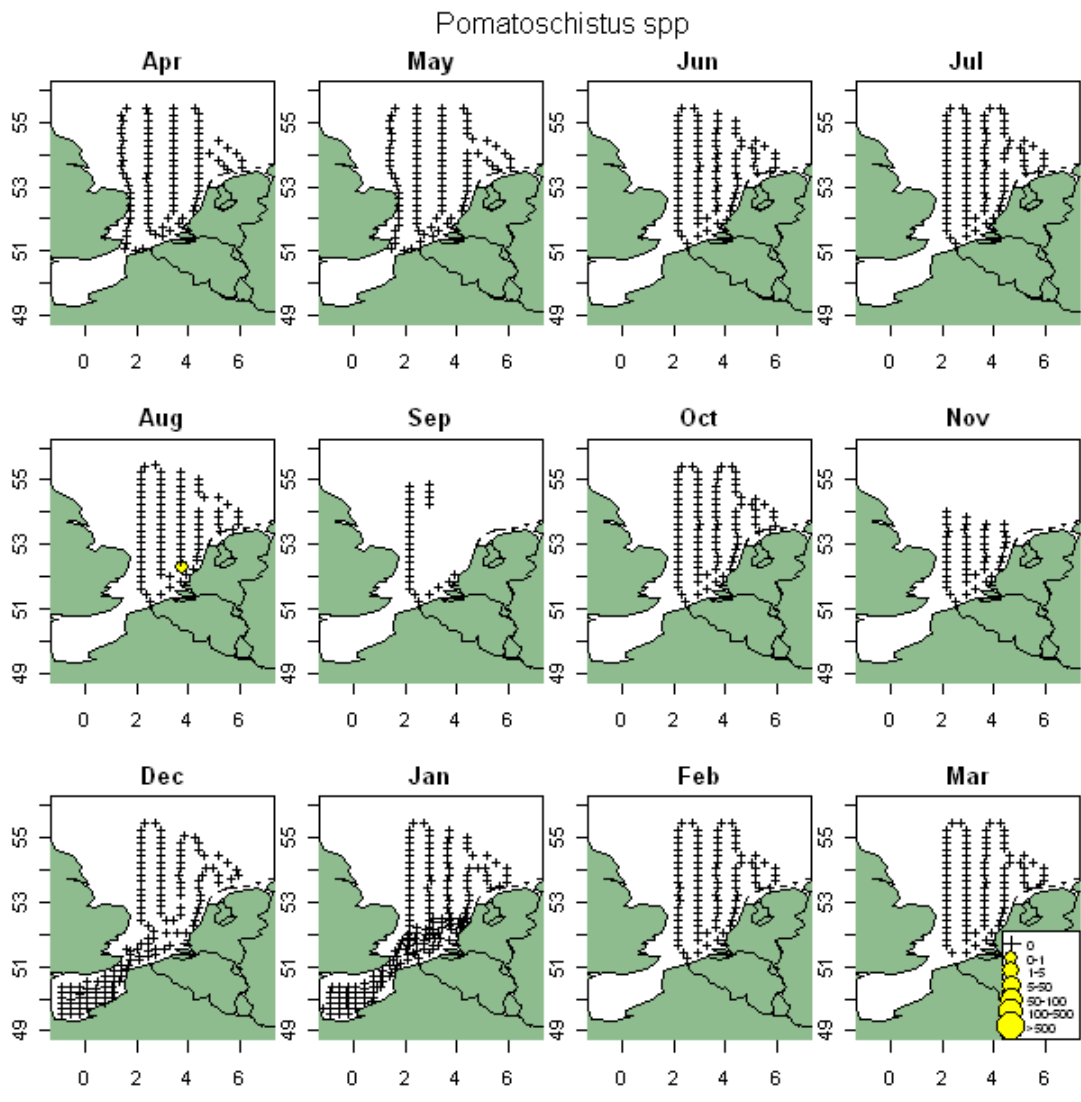


Figure 28d. Spatial and temporal distribution of metamorphosing pomatoschistus spp. larvae.

**Sand goby *Pomatoschistus minutus***

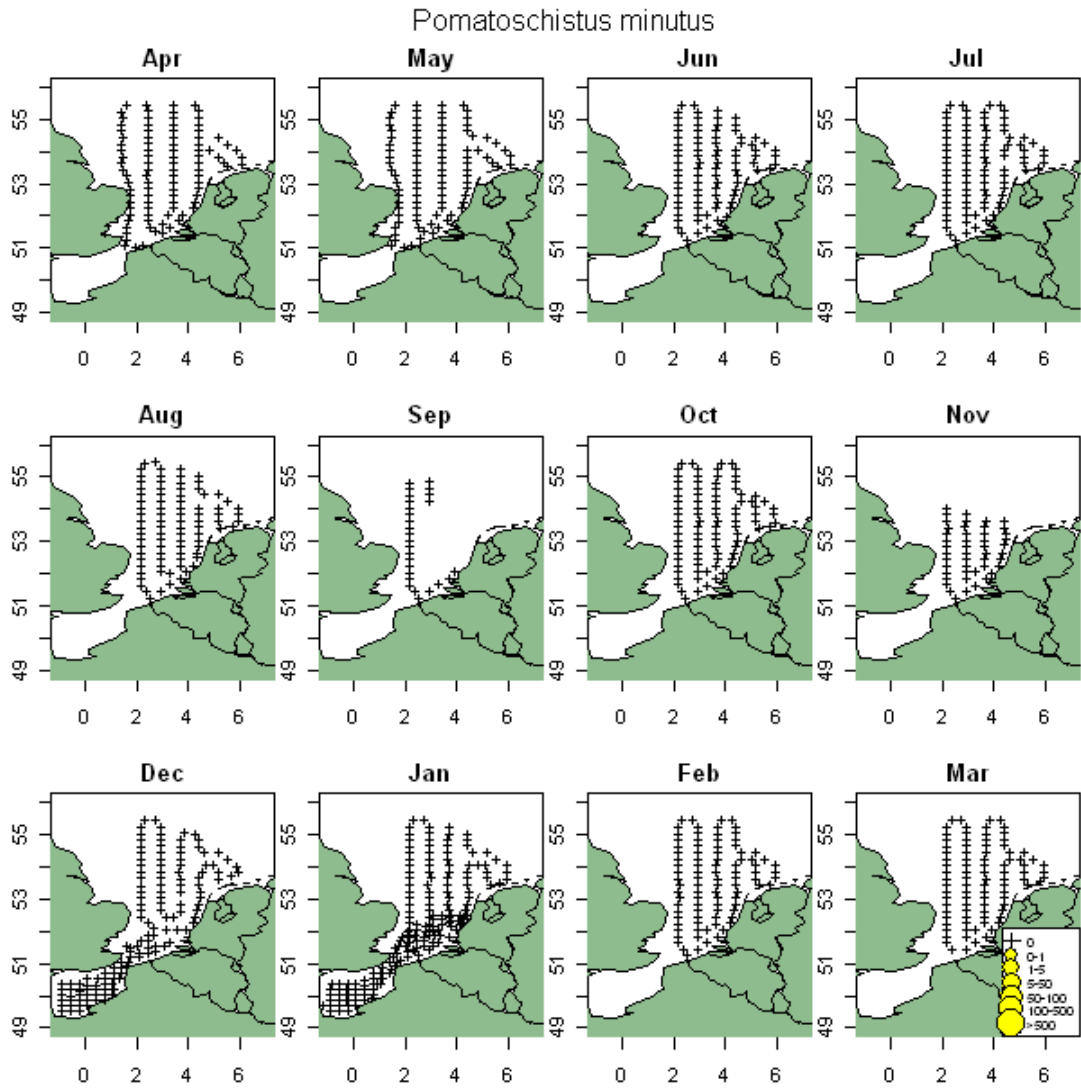


Figure 29a. Spatial and temporal distribution of yolk sac sand goby larvae.

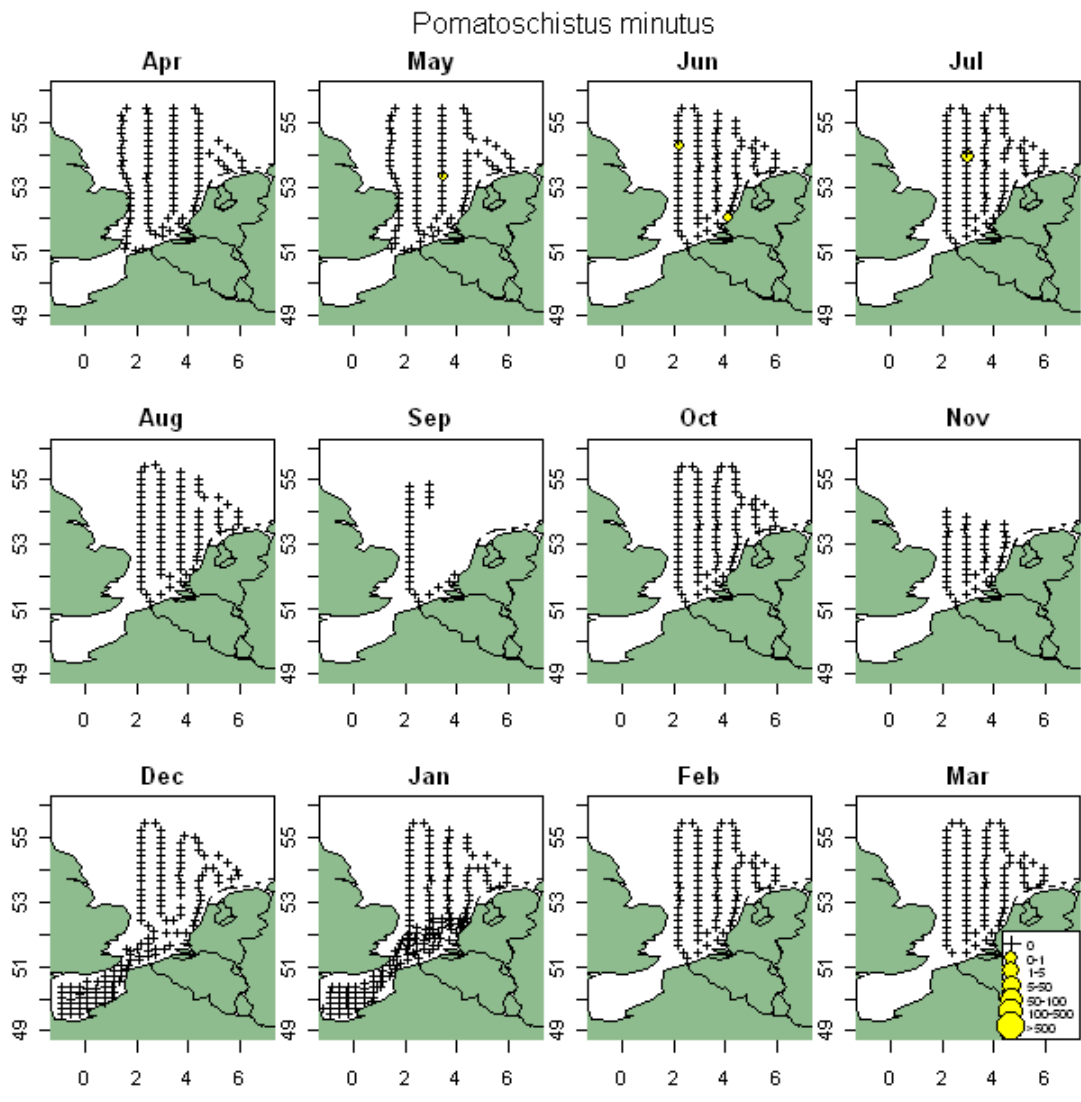


Figure 29b. Spatial and temporal distribution of non-yolk sac sand goby larvae.



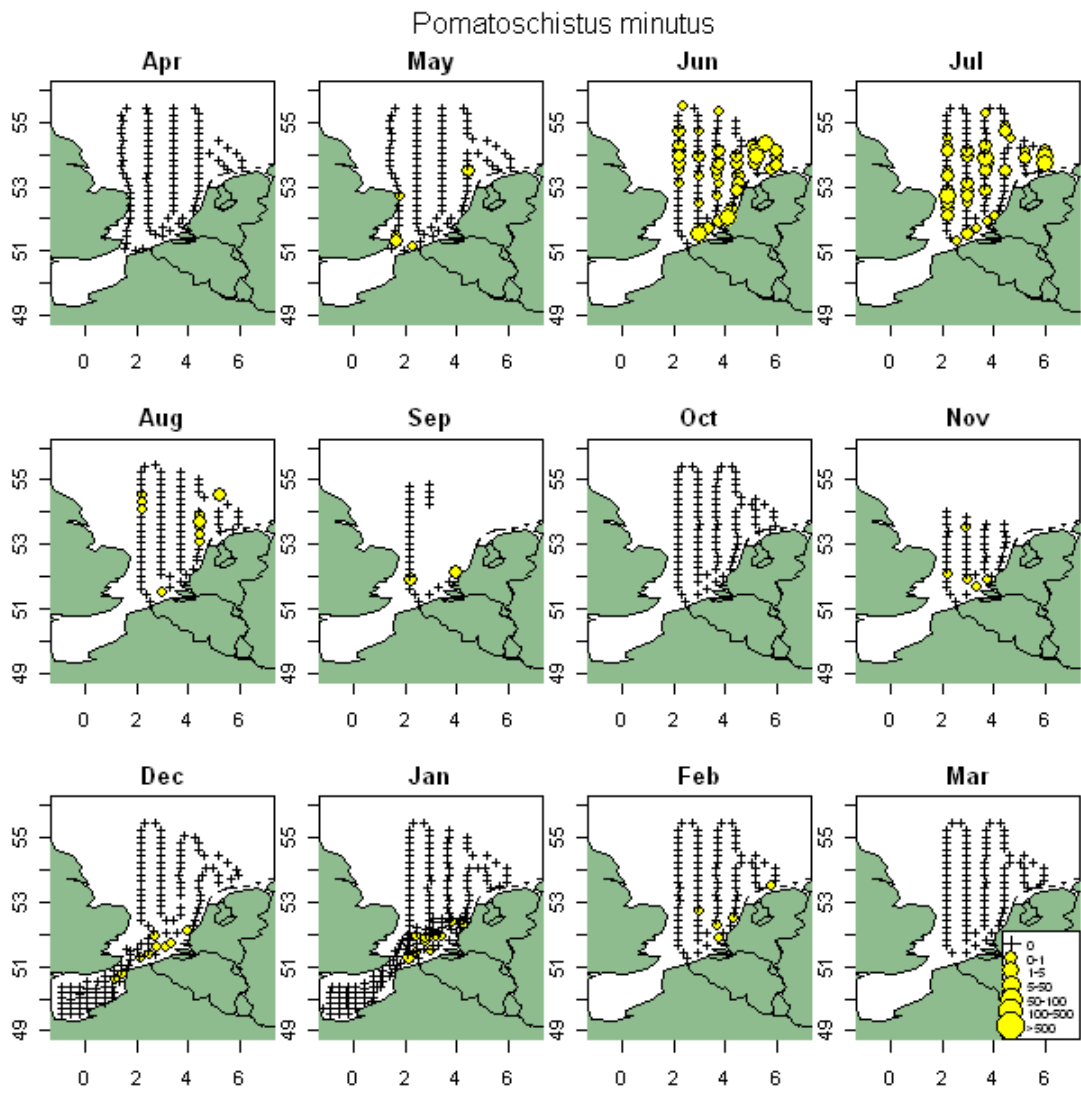


Figure 29c. Spatial and temporal distribution of bent notochord stage sand goby larvae.

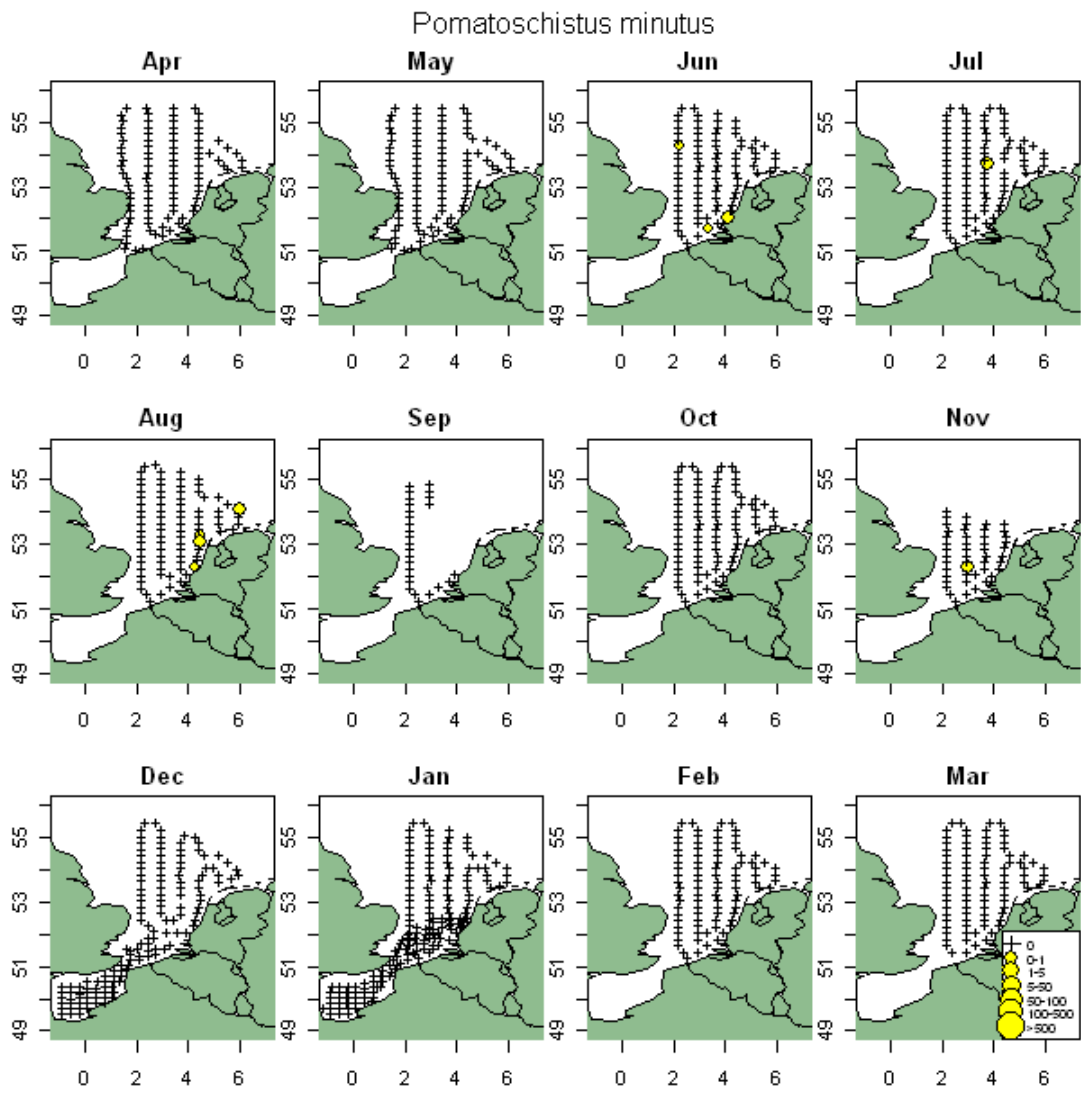


Figure 29d. Spatial and temporal distribution of metamorphosing sand goby larvae.

**Common goby *Pomatoschistus microps***

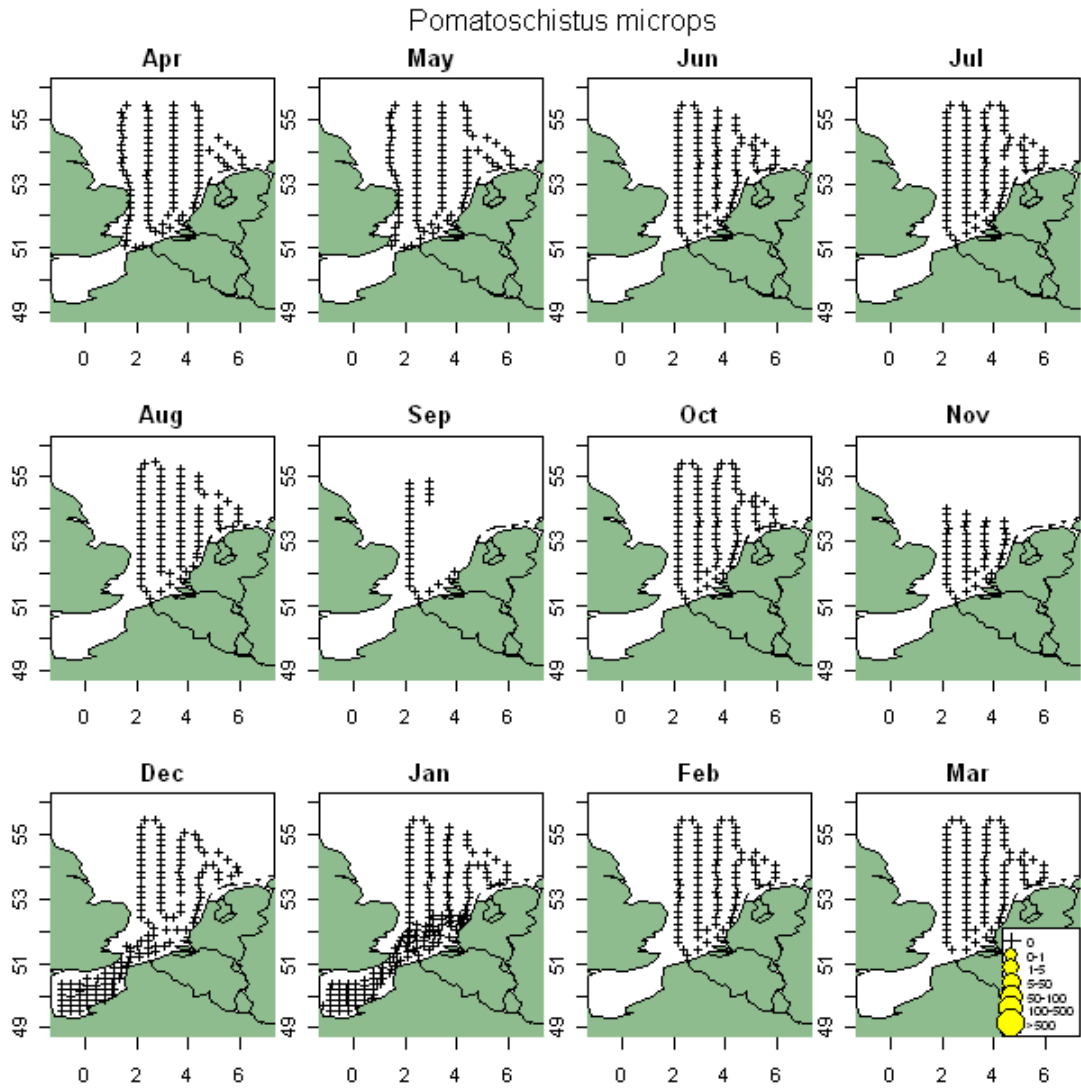


Figure 30a. Spatial and temporal distribution of yolk sac common goby larvae.

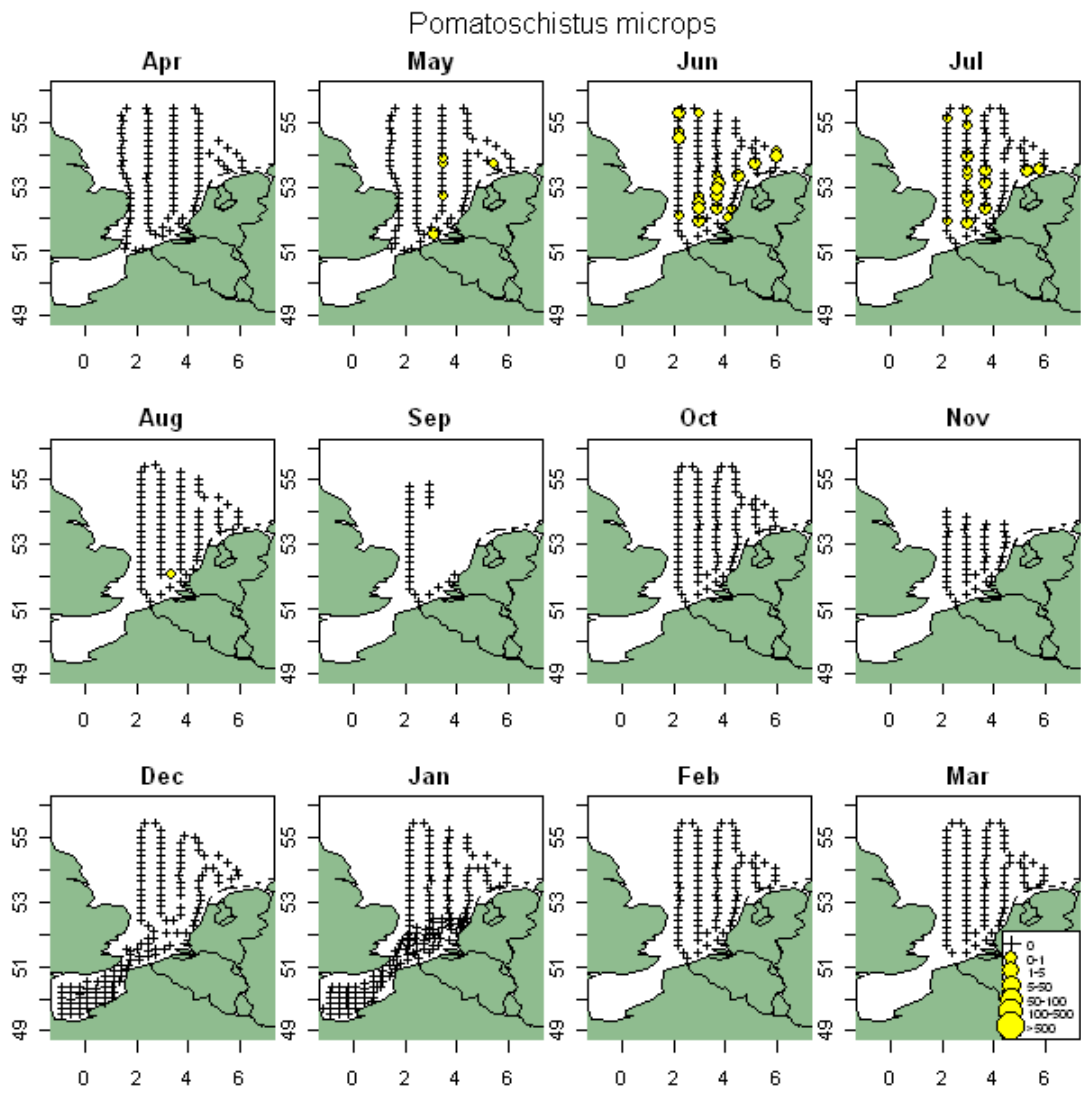


Figure 30b. Spatial and temporal distribution of non-yolk sac common goby larvae.

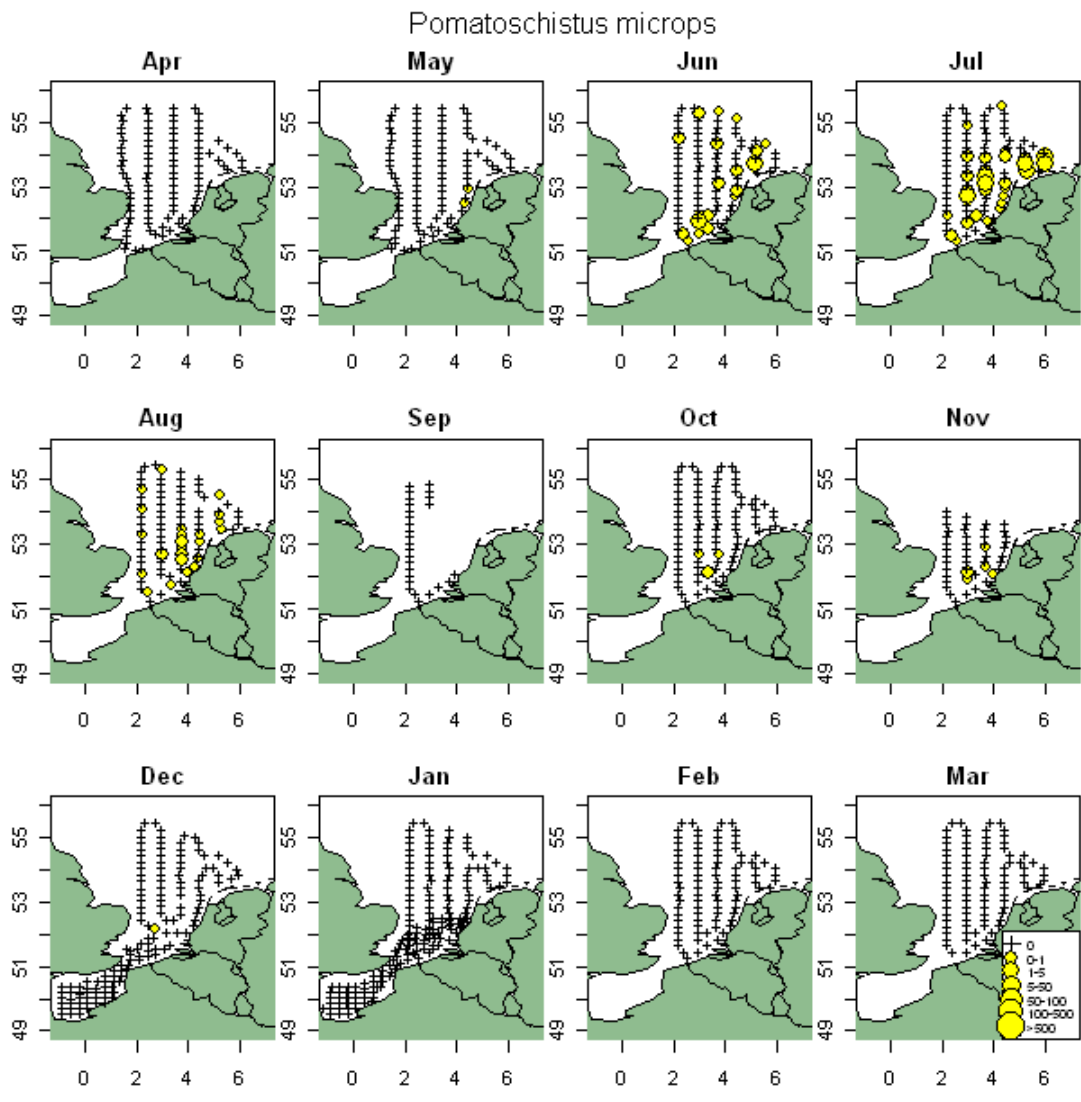


Figure 30c. Spatial and temporal distribution of bent notochord stage common goby larvae.

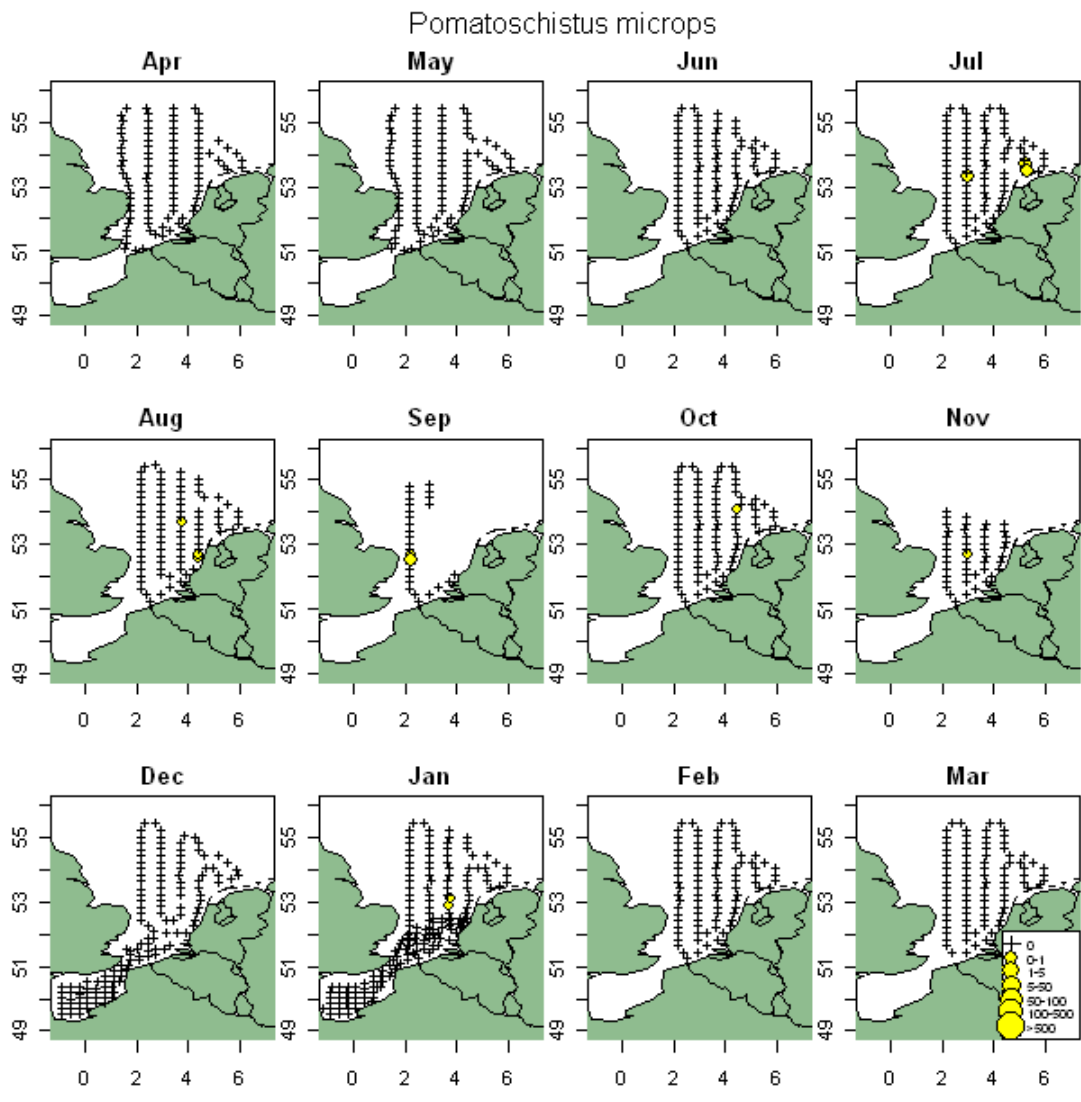


Figure 30d. Spatial and temporal distribution of metamorphosing common goby larvae.

**Painted goby *Pomatoschistus pictus***

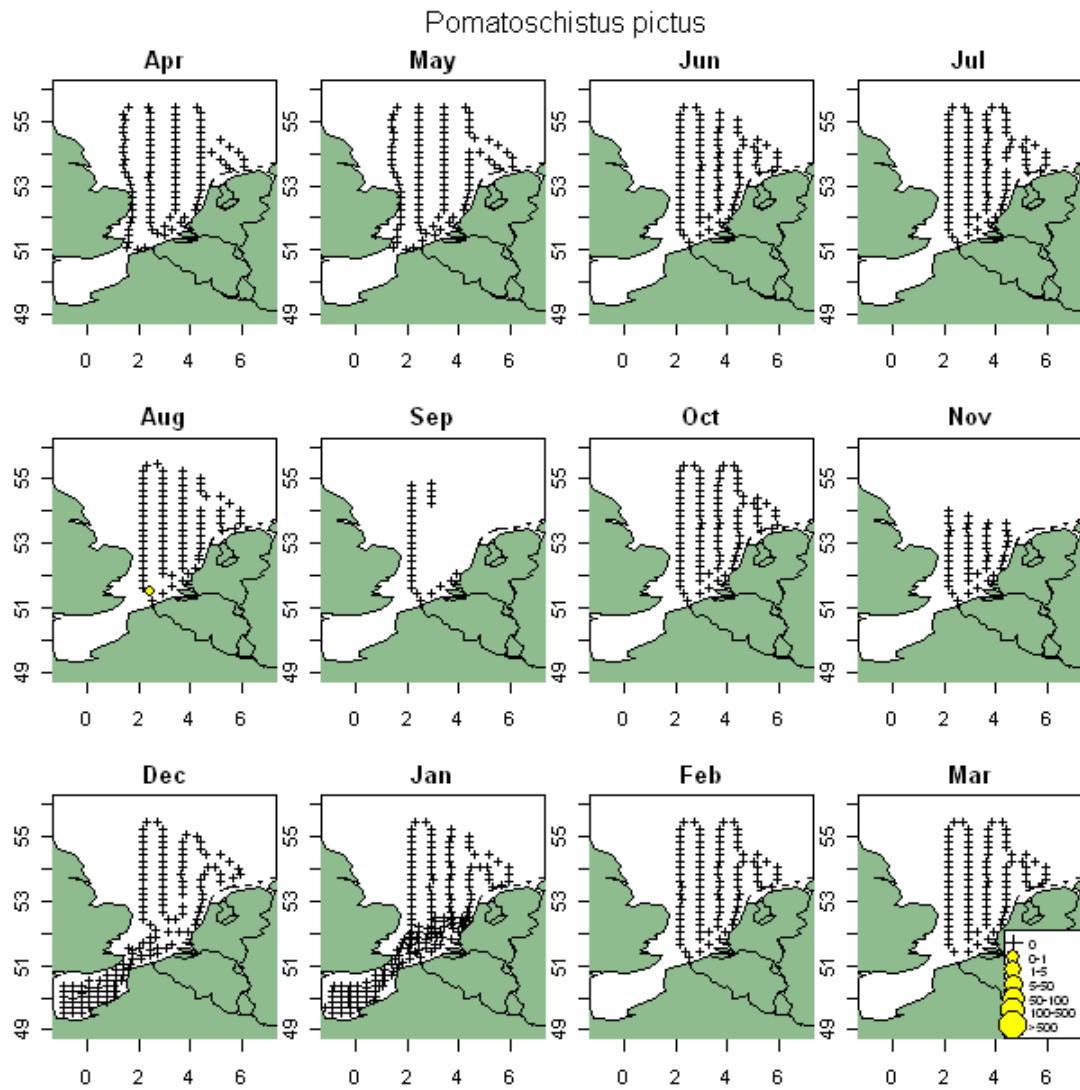


Figure 31a. Spatial and temporal distribution of yolk sac painted goby larvae.

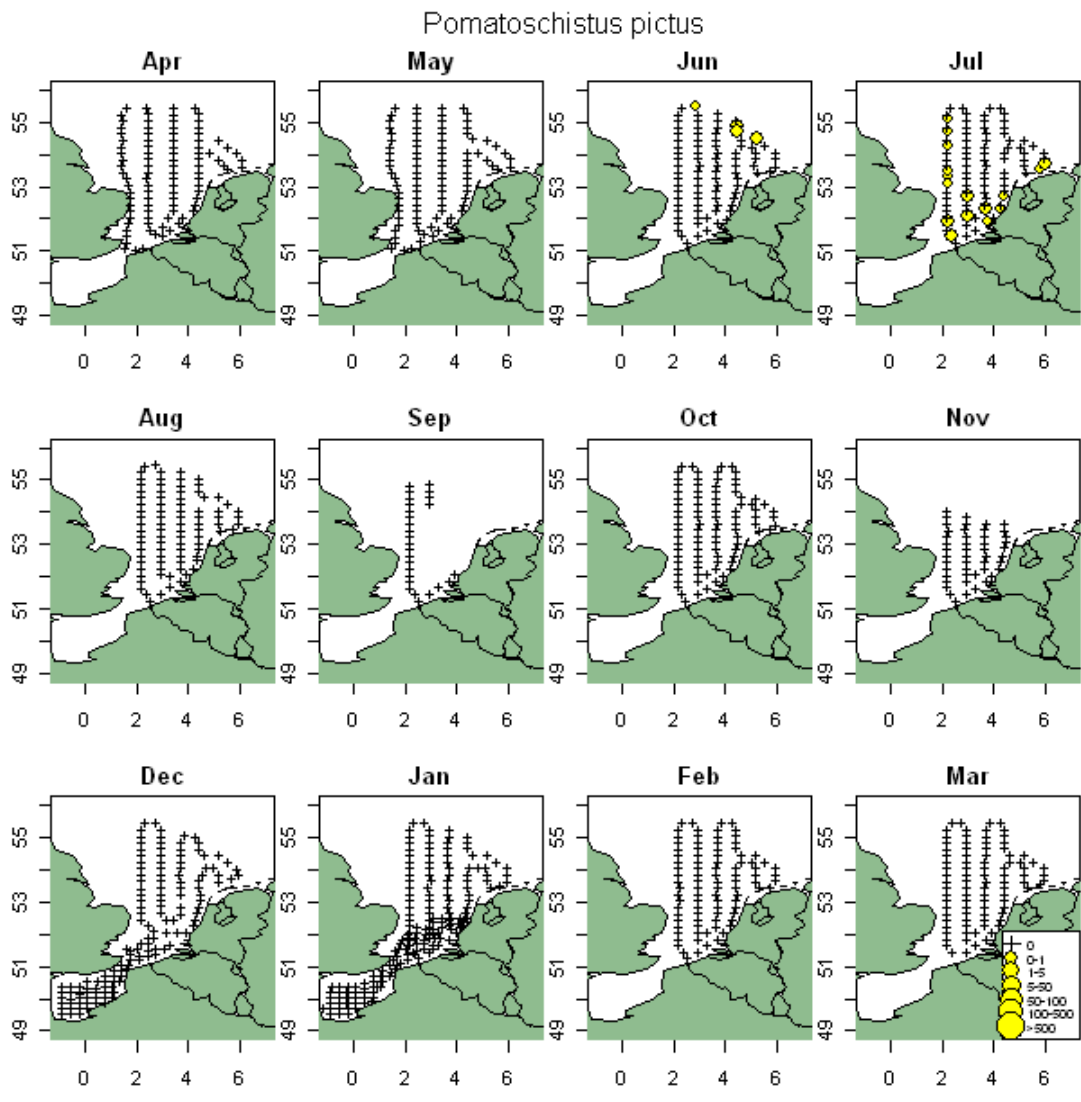


Figure 31b. Spatial and temporal distribution of non-yolk sac painted goby larvae.



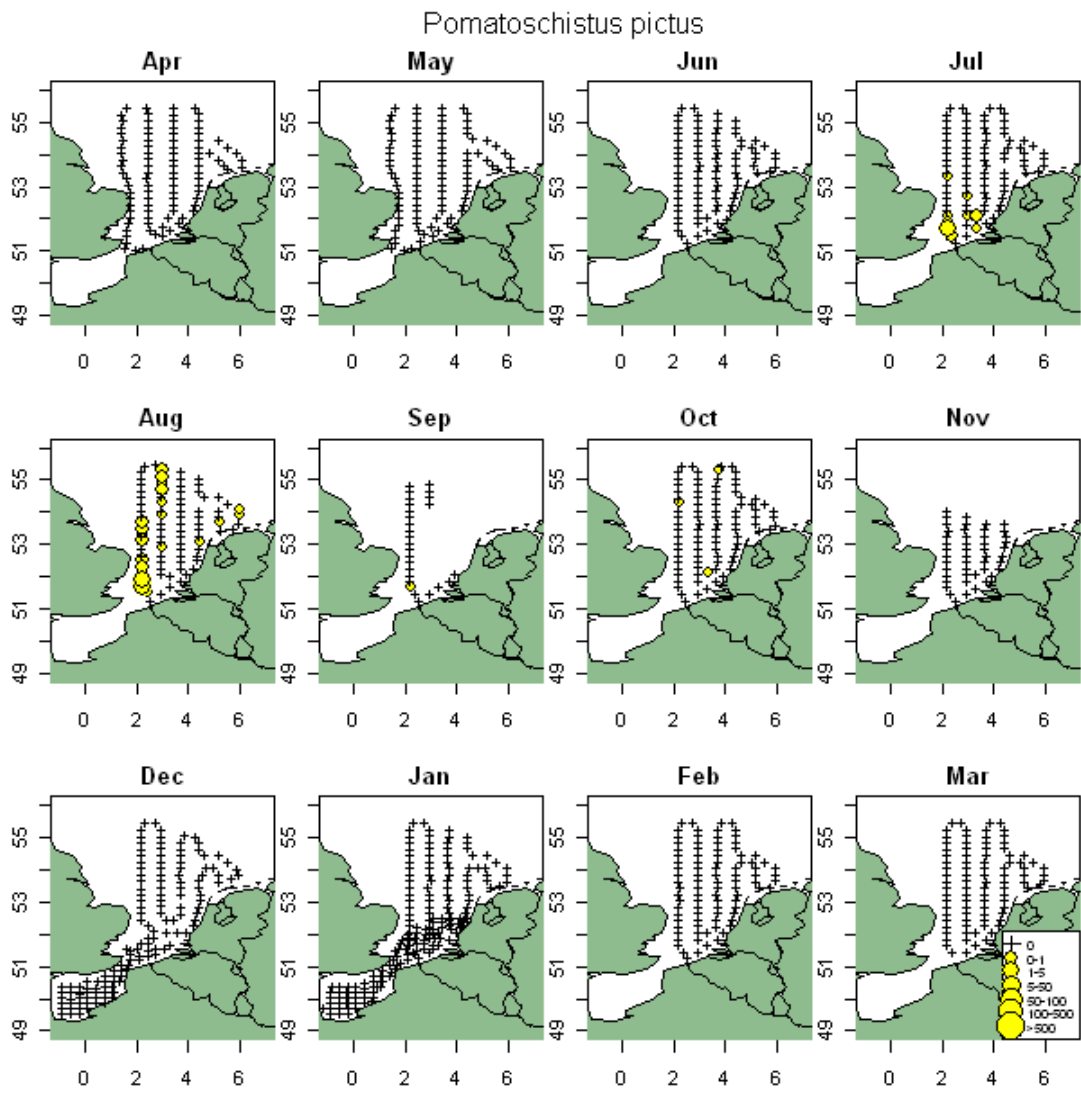


Figure 31c. Spatial and temporal distribution of bent notochord stage painted goby larvae.

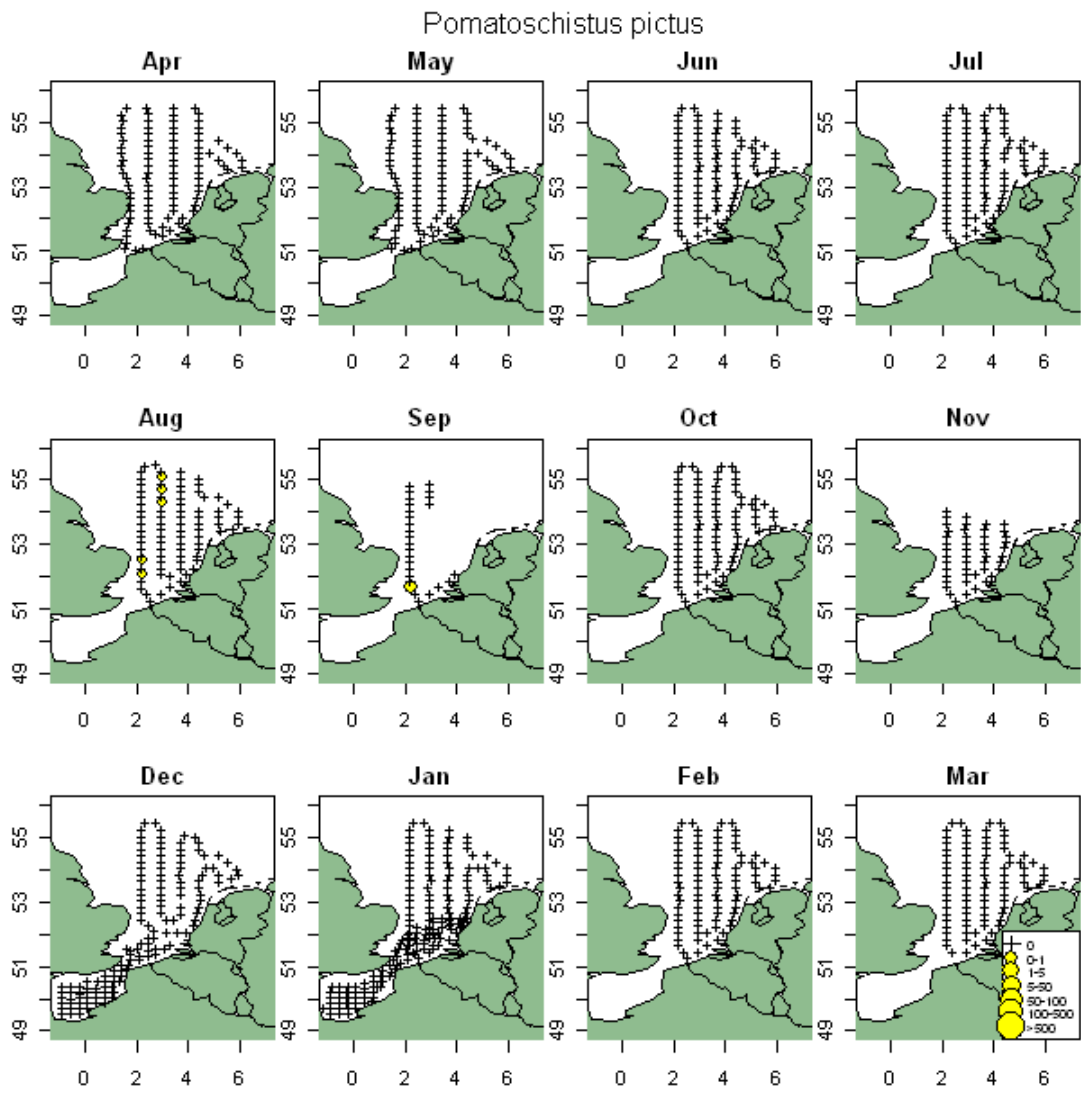


Figure 31d. Spatial and temporal distribution of metamorphosing painted goby larvae.

**Transparent goby *Aphia minuta***

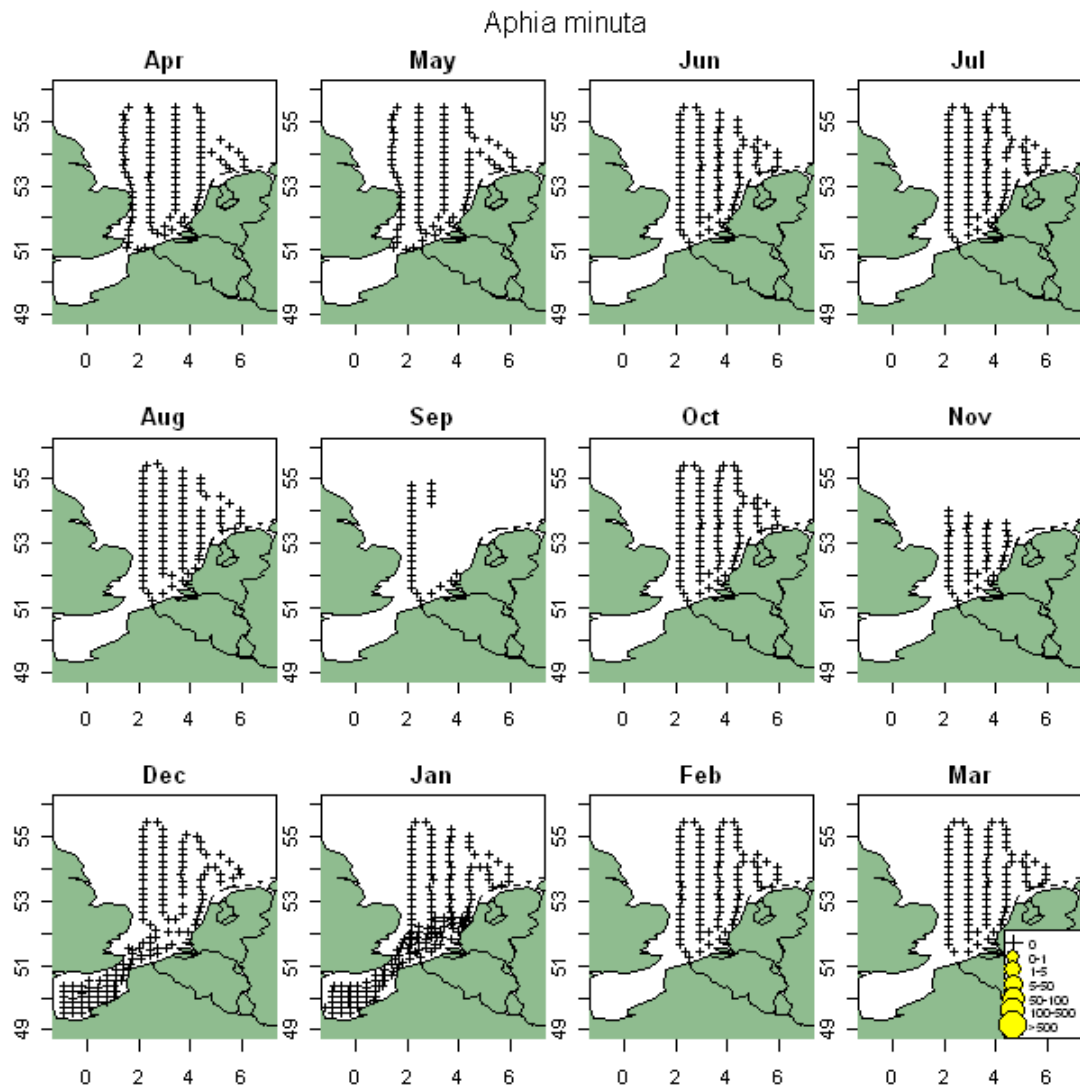


Figure 32a. Spatial and temporal distribution of yolk sac transparent goby larvae.

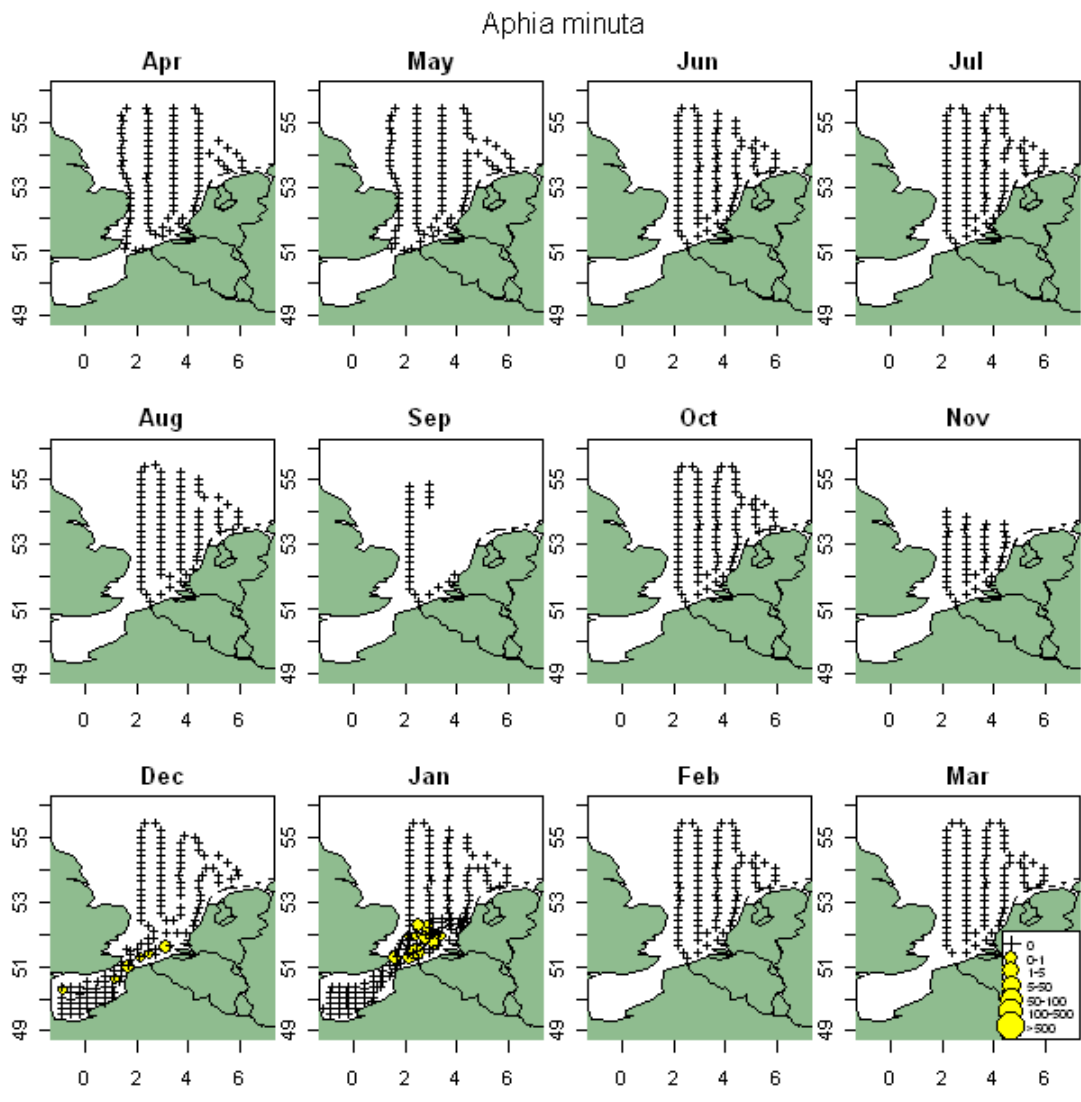


Figure 32b. Spatial and temporal distribution of non-yolk sac transparent goby larvae.

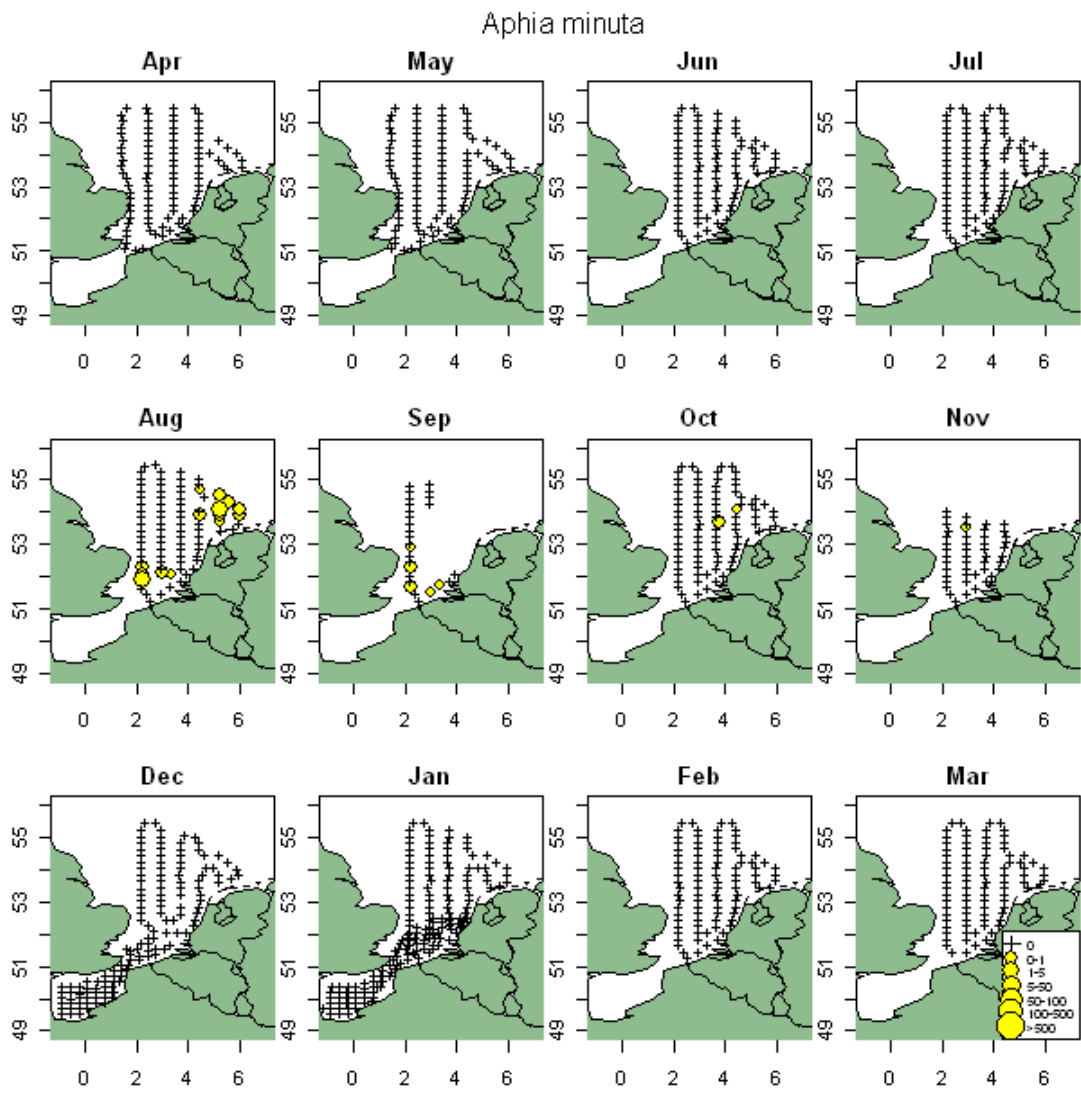


Figure 32c. Spatial and temporal distribution of bent notochord stage transparent goby larvae.

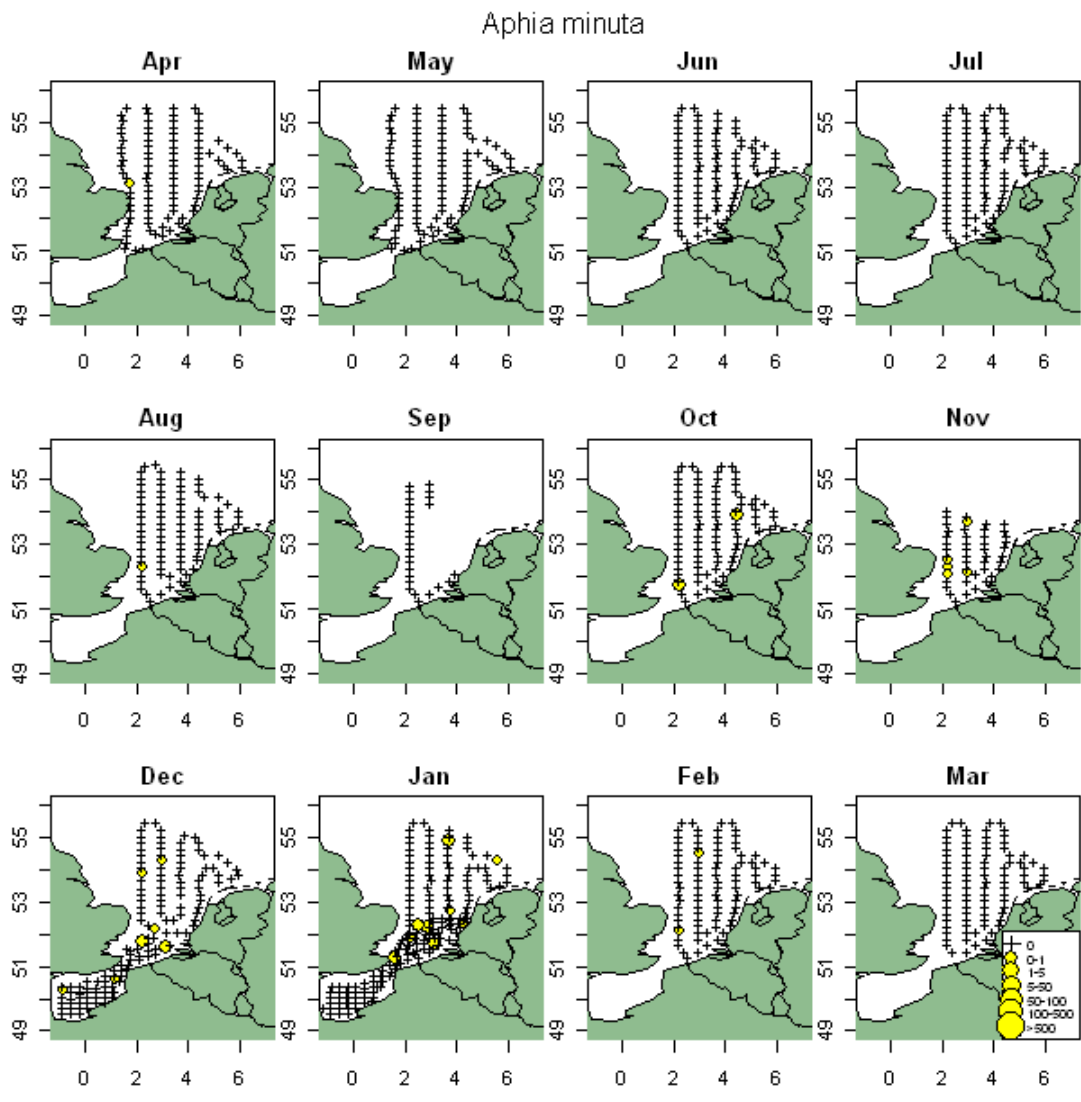


Figure 32d. Spatial and temporal distribution of metamorphosing transparent goby larvae.

**Crystal goby *Crystallogobius linearis***

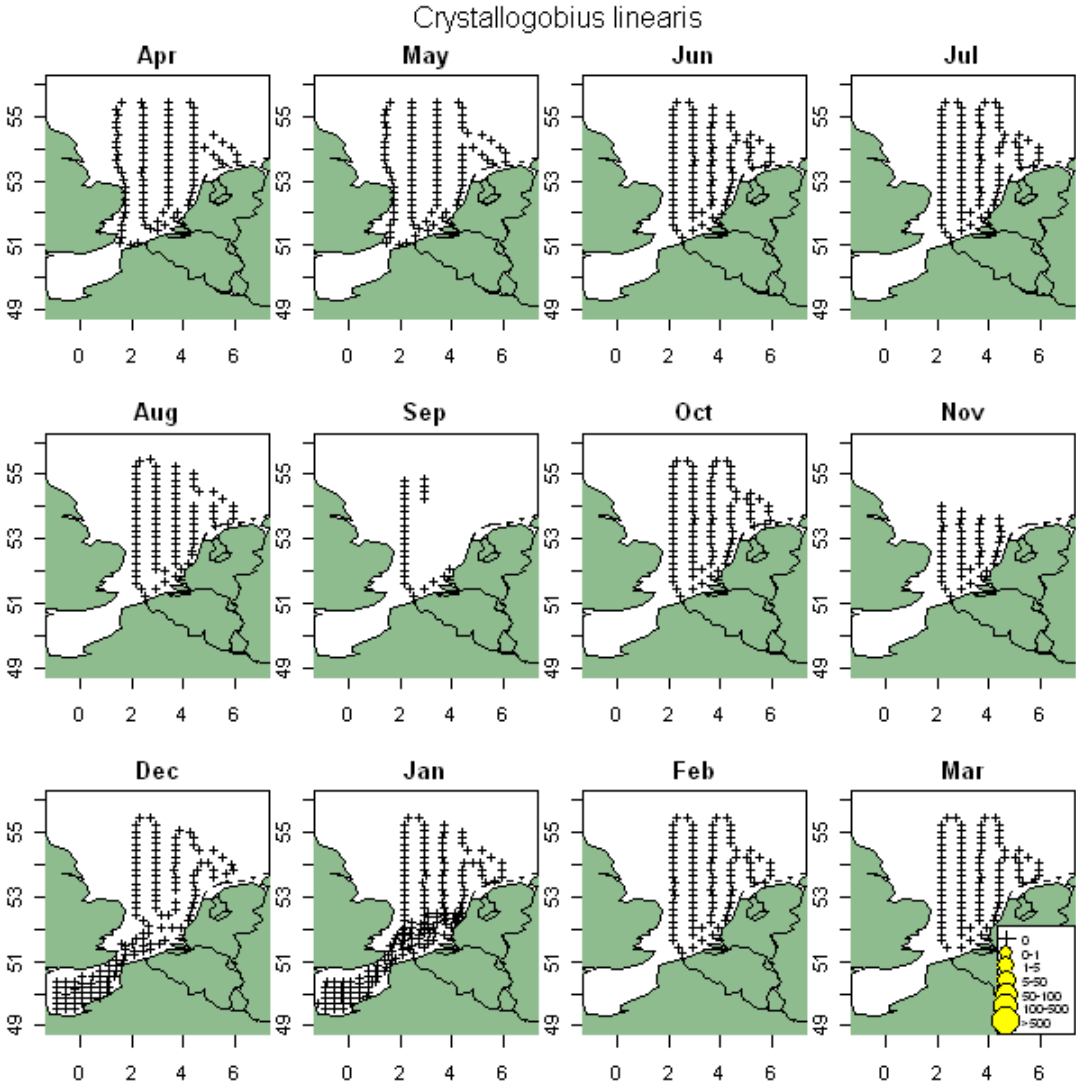


Figure 33a. Spatial and temporal distribution of yolk sac crystal goby larvae.

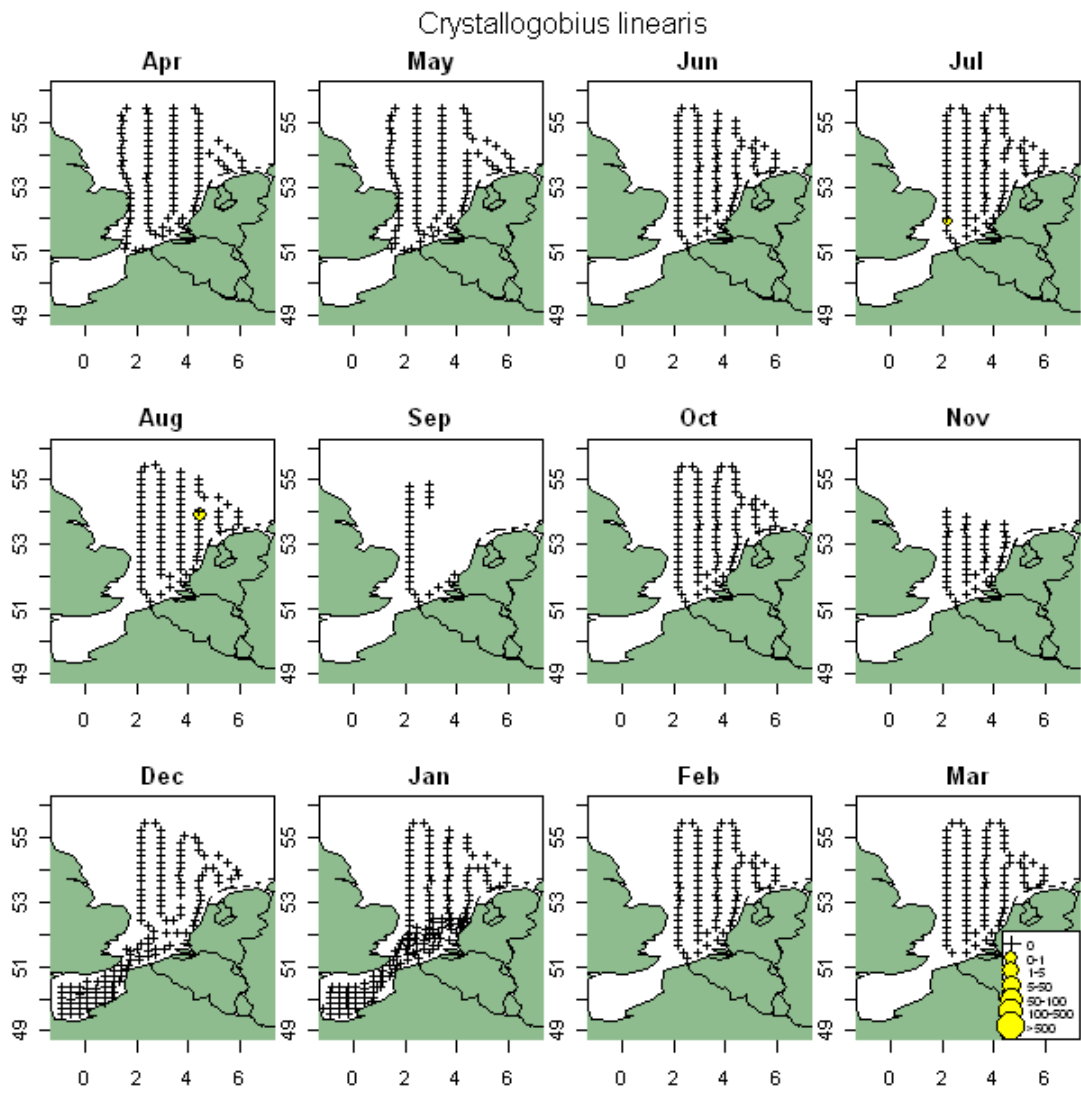


Figure 33b. Spatial and temporal distribution of non-yolk sac crystal goby larvae.



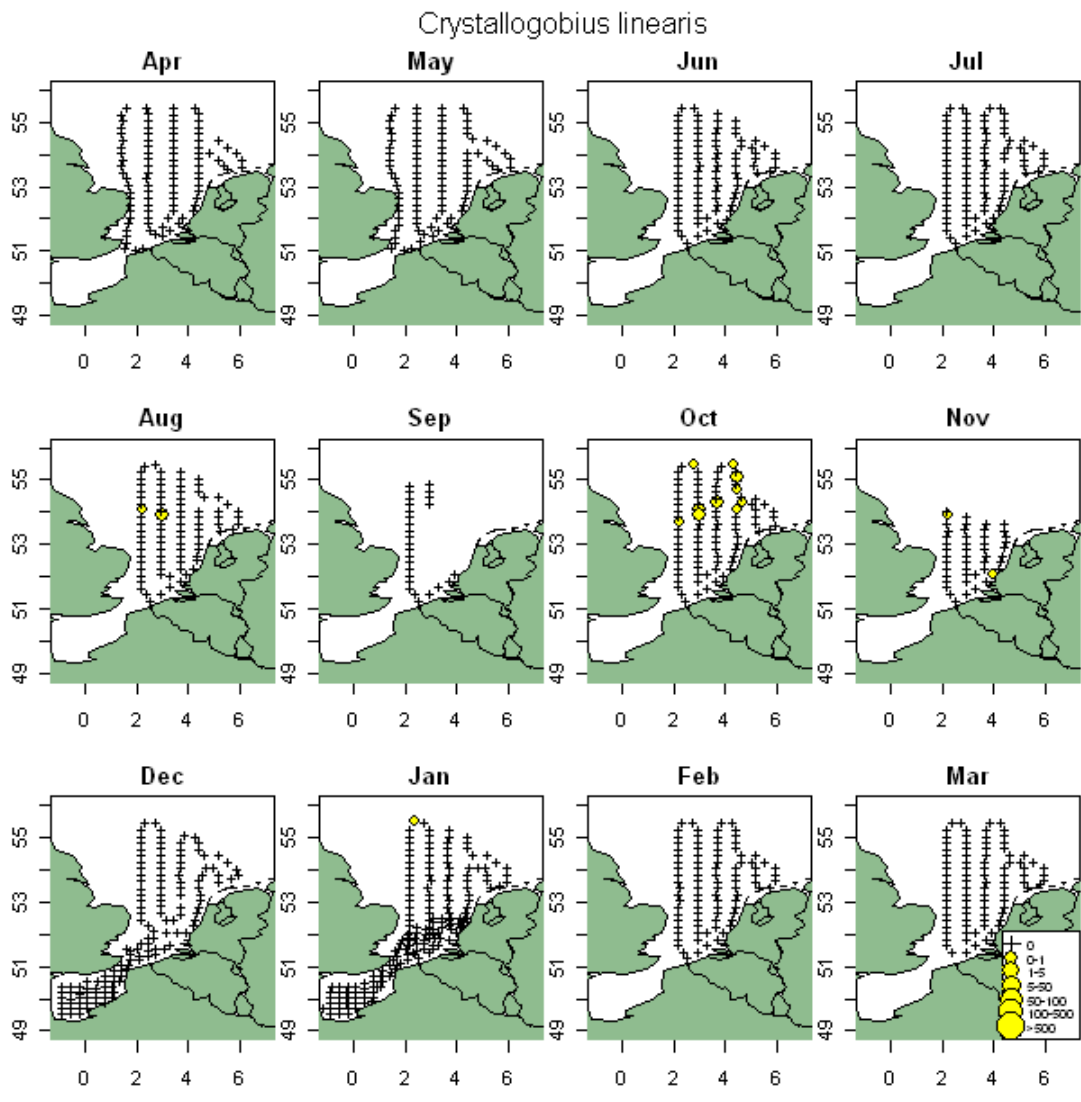


Figure 33c. Spatial and temporal distribution of bent notochord stage crystal goby larvae.

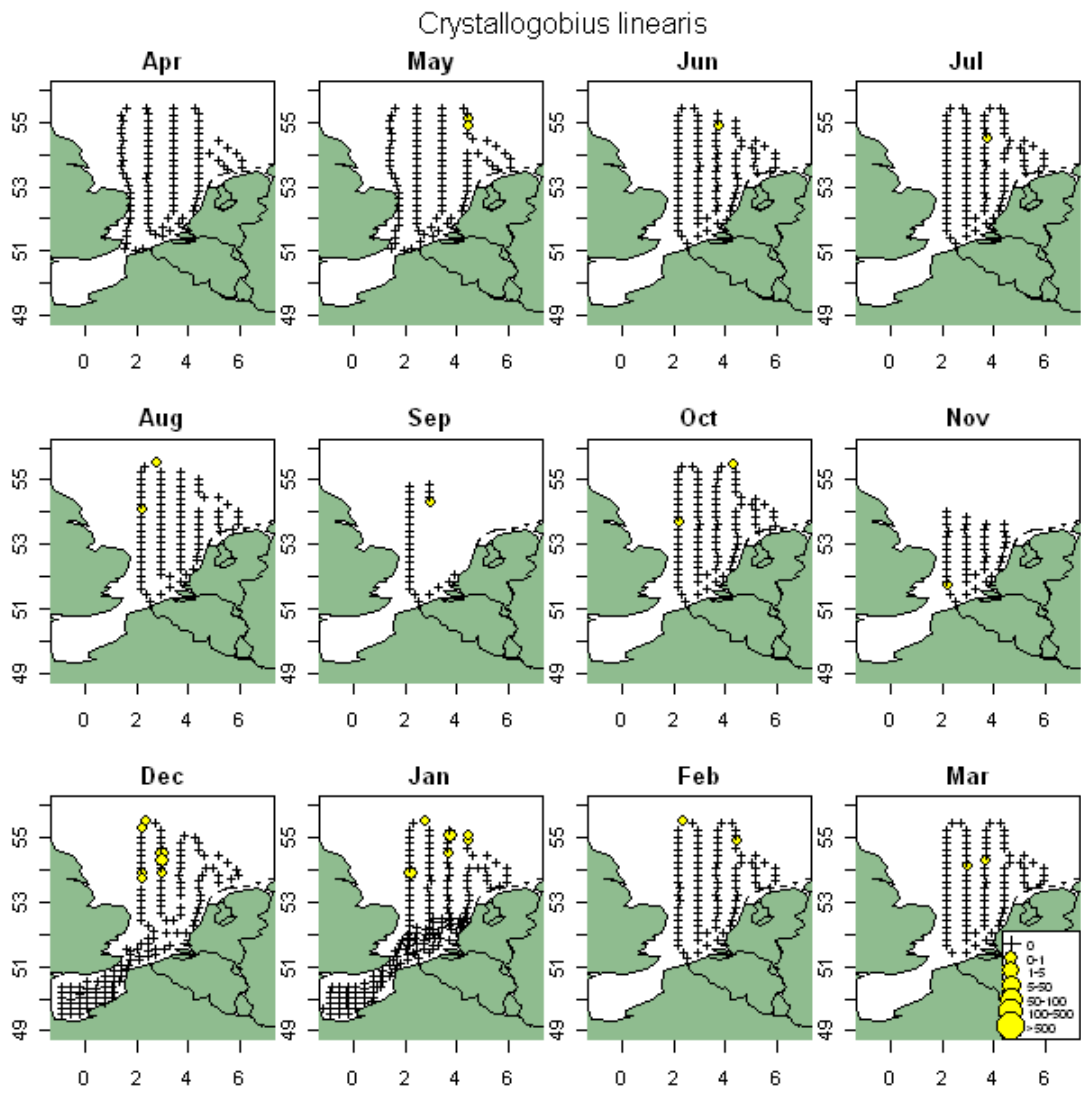


Figure 34d. Spatial and temporal distribution of metamorphosing crystal goby larvae.

## Callionymidae

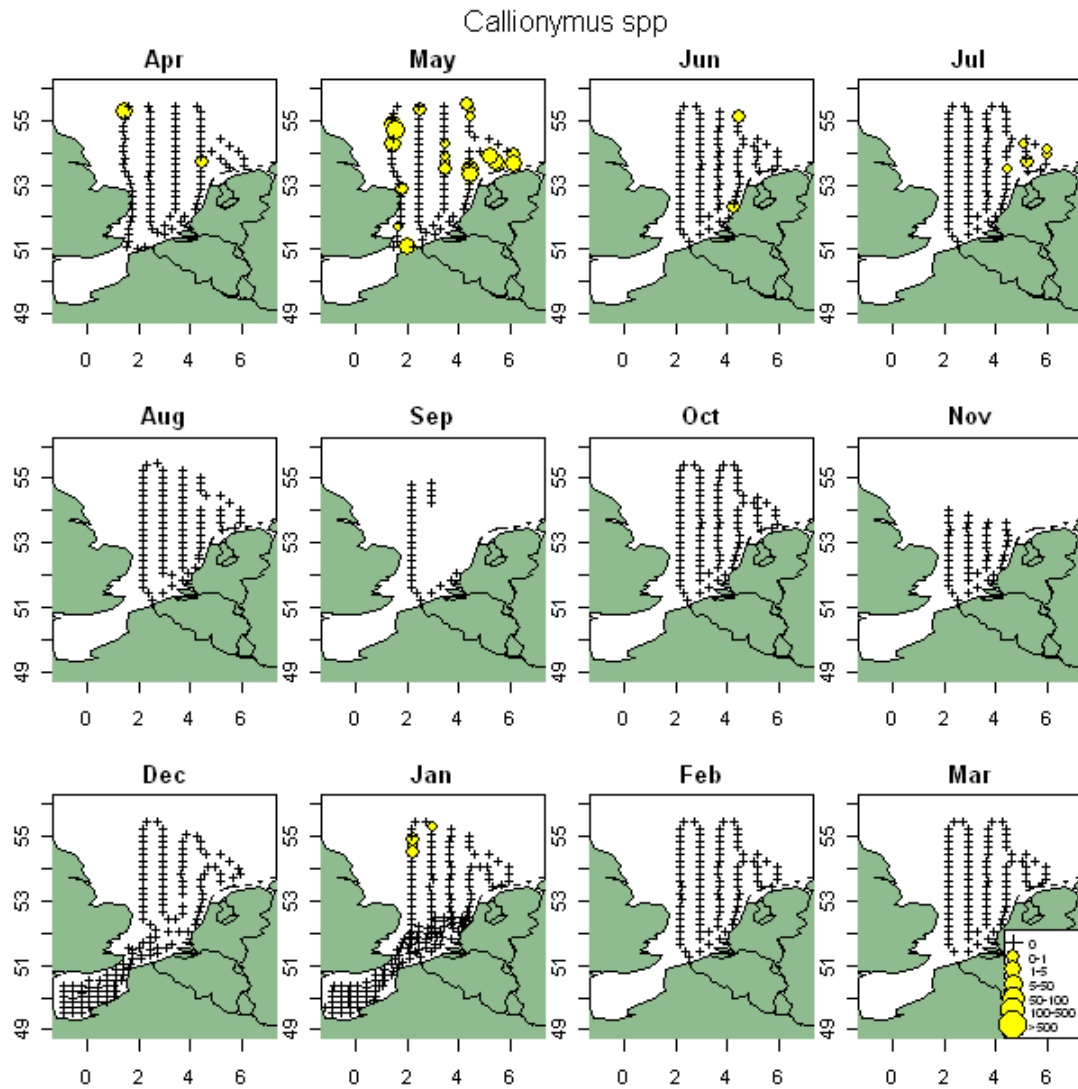


Figure 35a. Spatial and temporal distribution of stage 1 Callionymidae eggs.

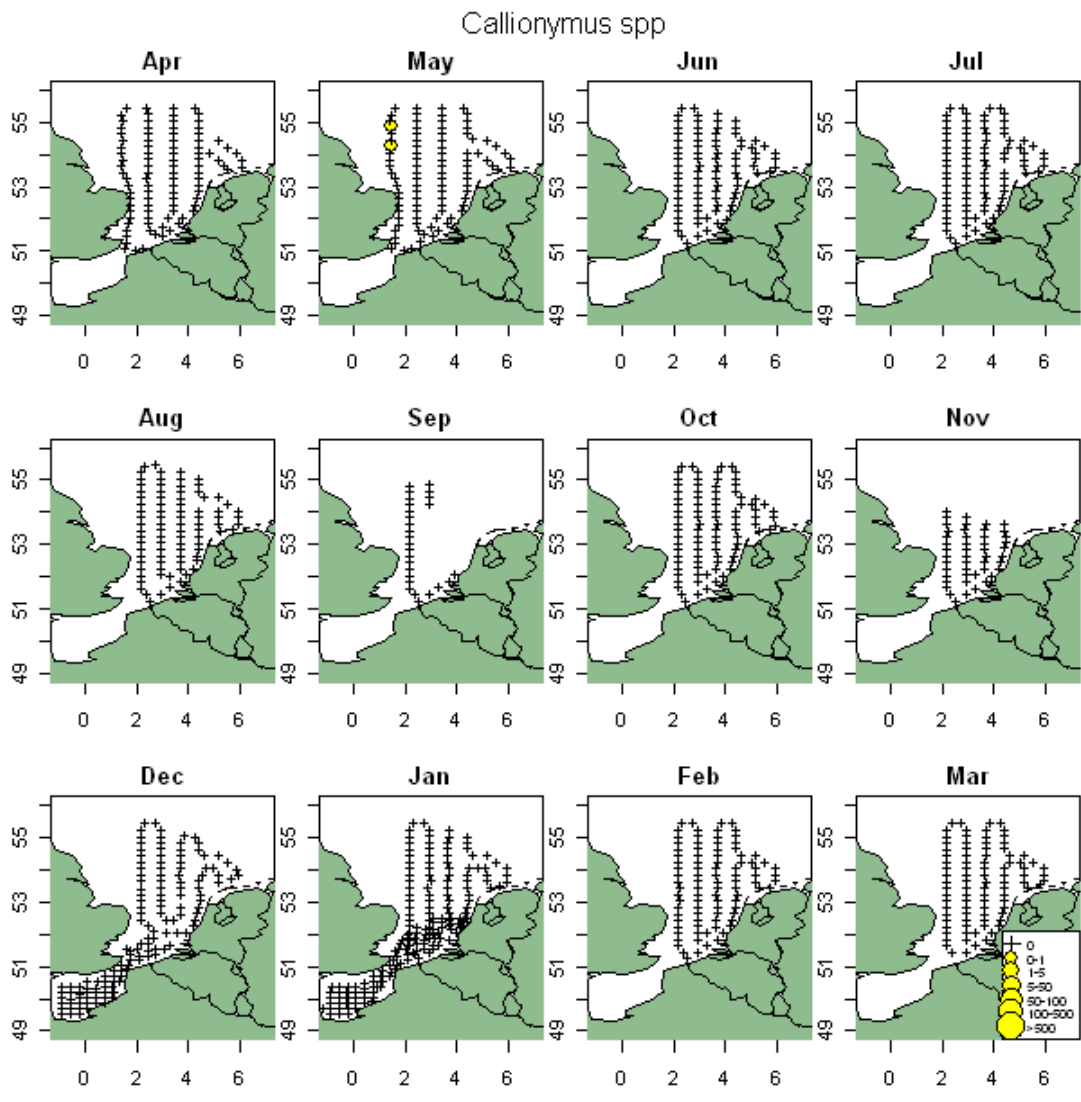


Figure 35b. Spatial and temporal distribution of stage 2 Callionymidae eggs.

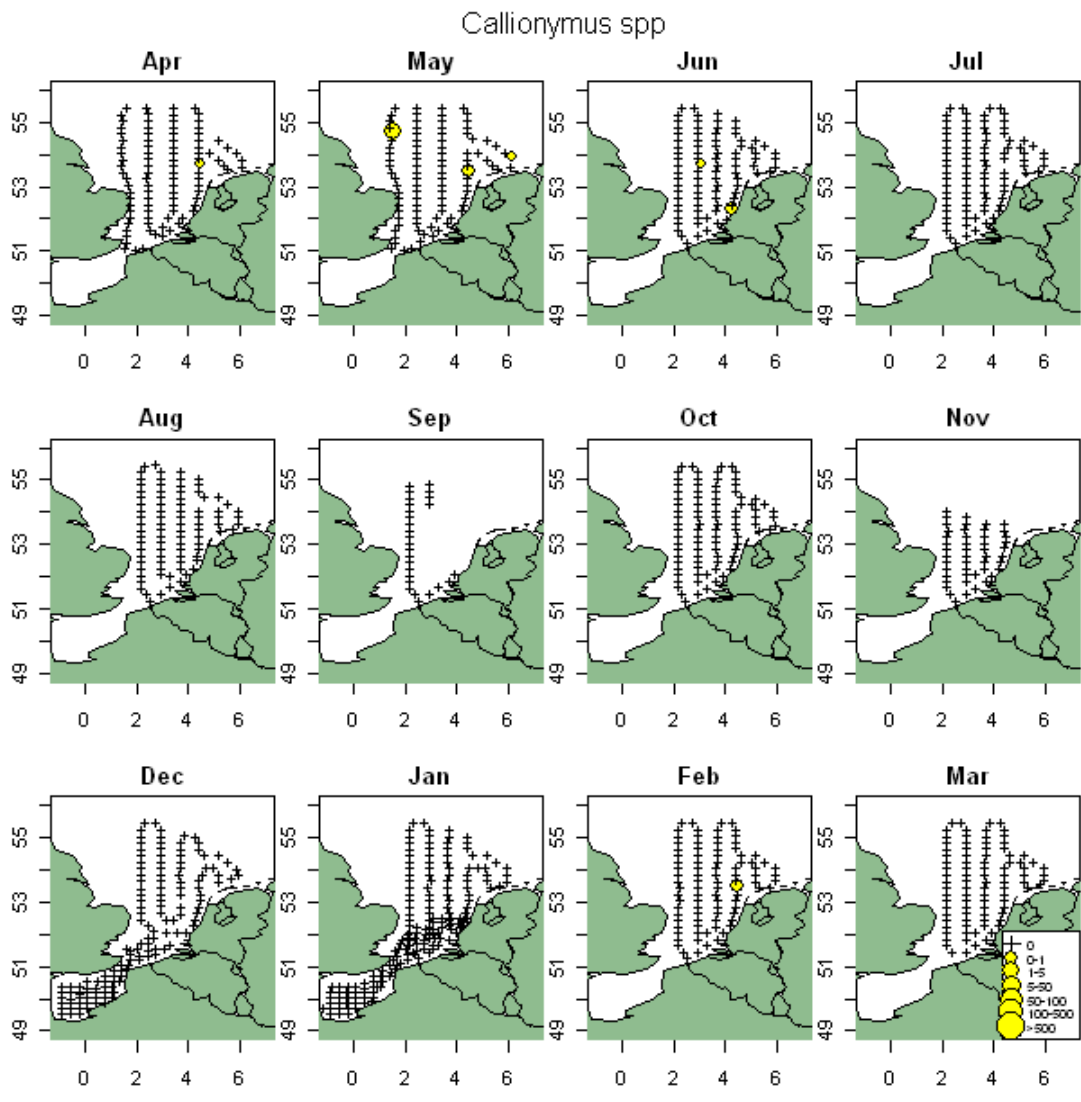


Figure 35c. Spatial and temporal distribution of stage 3 Callionymidae eggs.

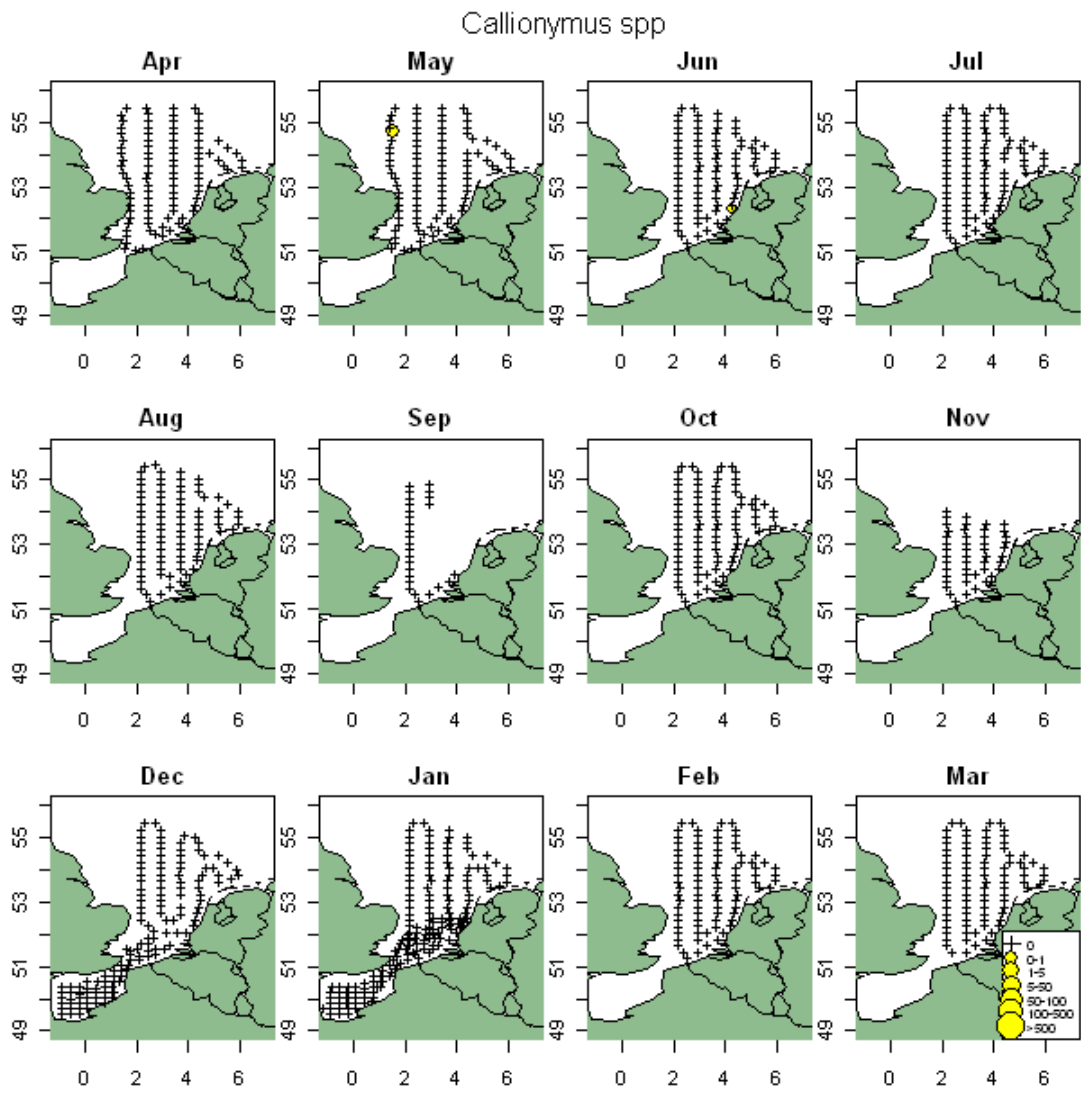


Figure 35d. Spatial and temporal distribution of stage 4 Callionymidae eggs.

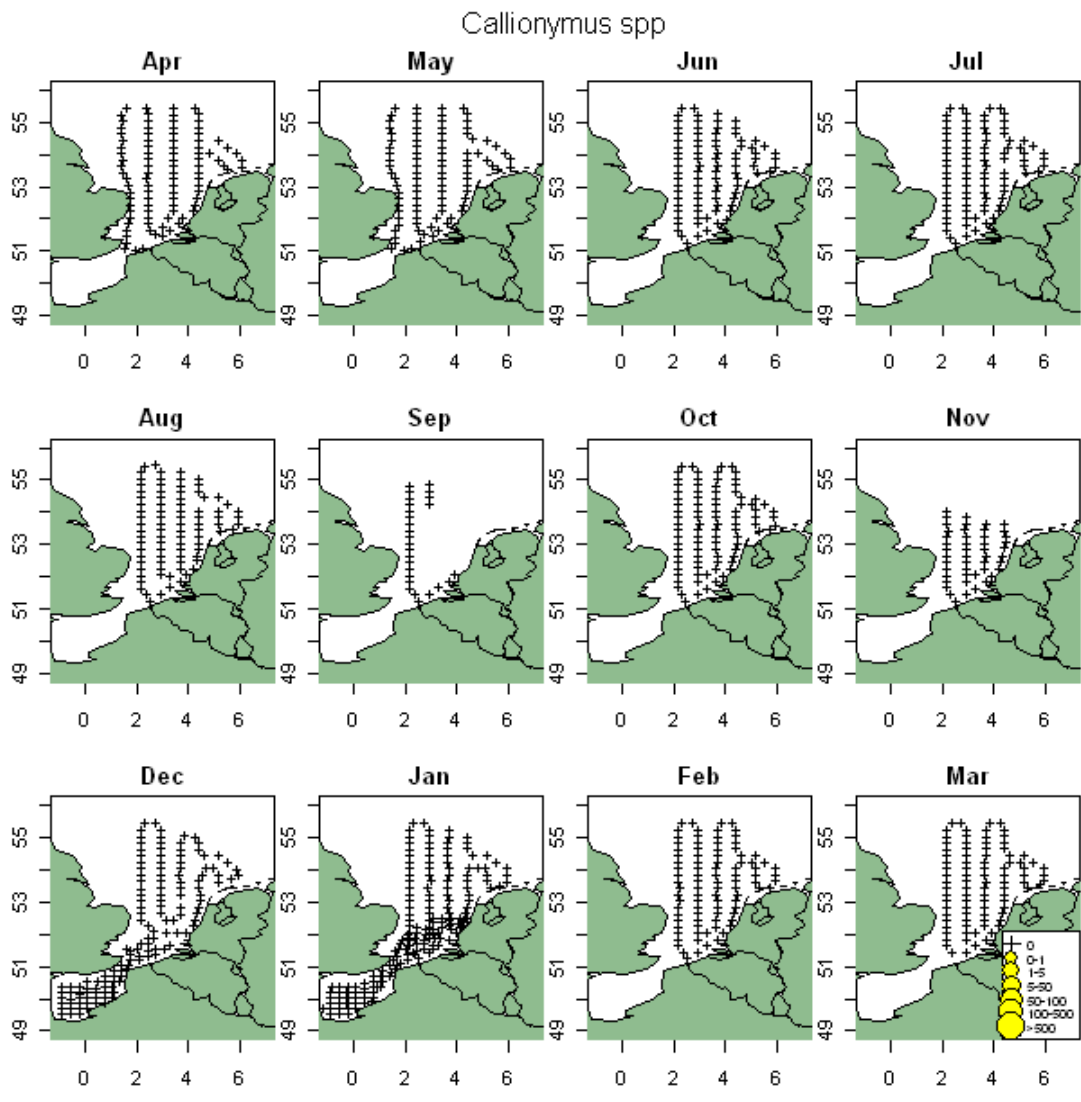


Figure 35e. Spatial and temporal distribution of stage 5 Callionymidae eggs.

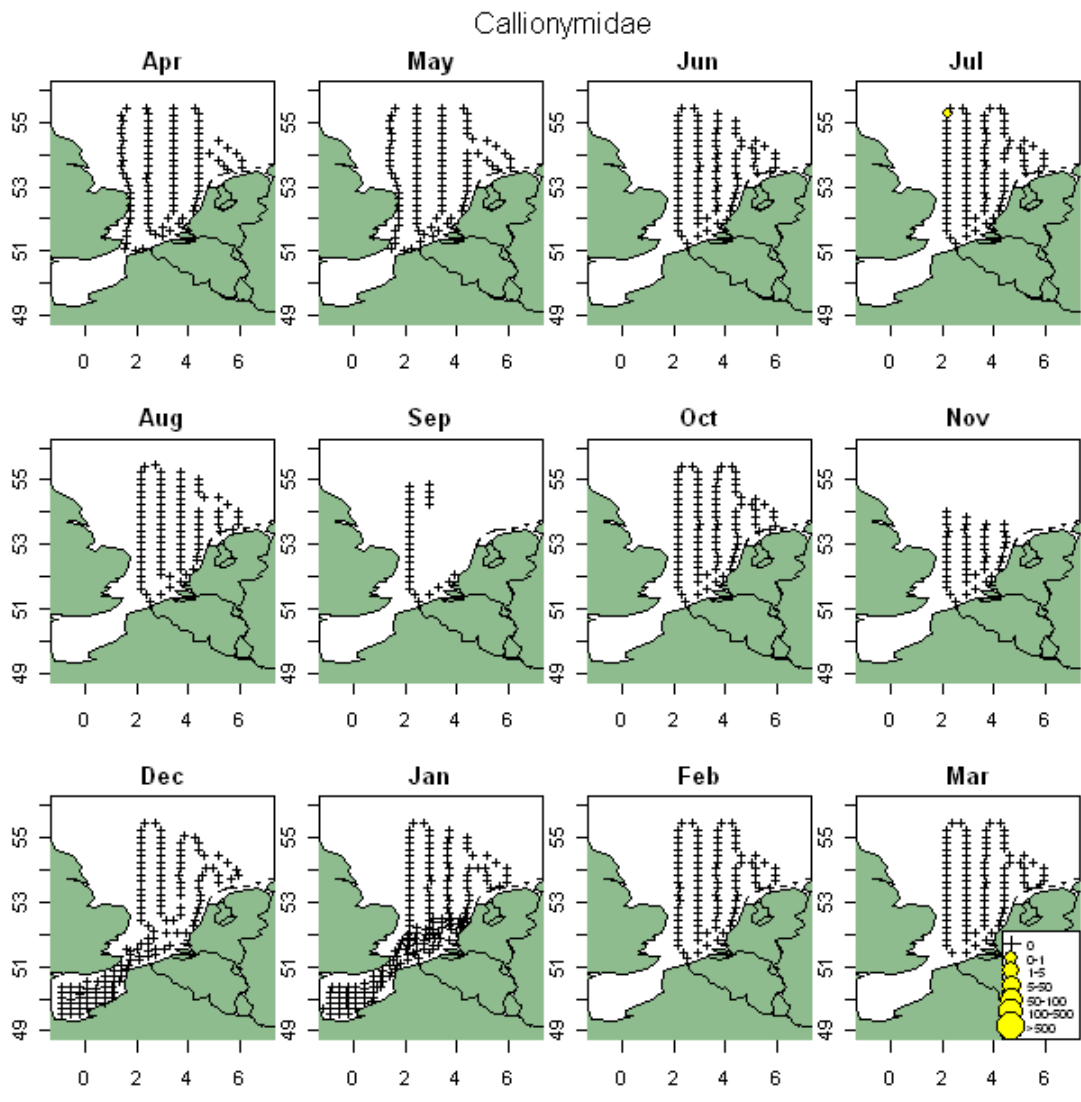


Figure 35f. Spatial and temporal distribution of yolk sac *Callionymidae* larvae.



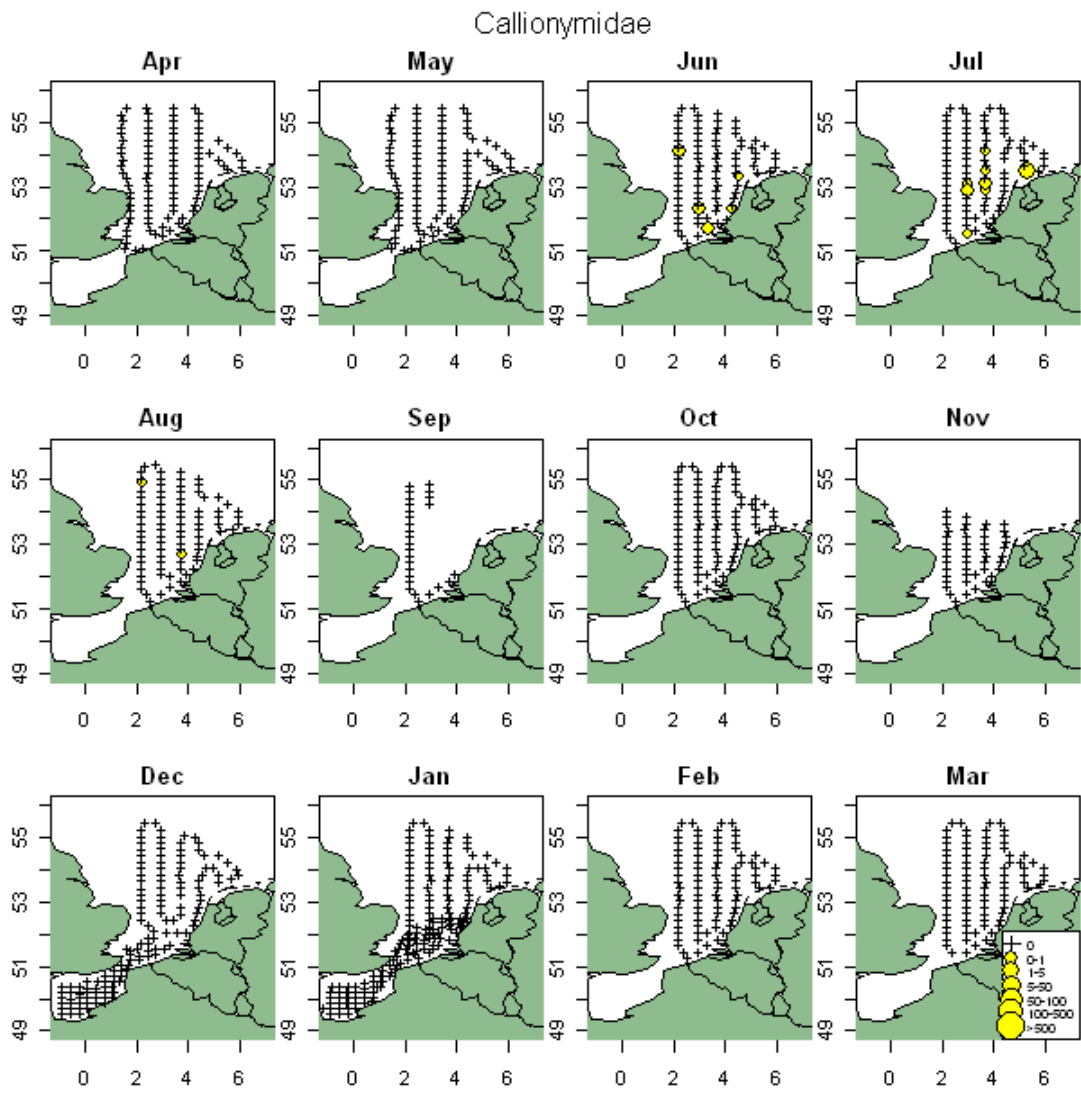


Figure 35g. Spatial and temporal distribution of non-yolk sac Callionymidae larvae.

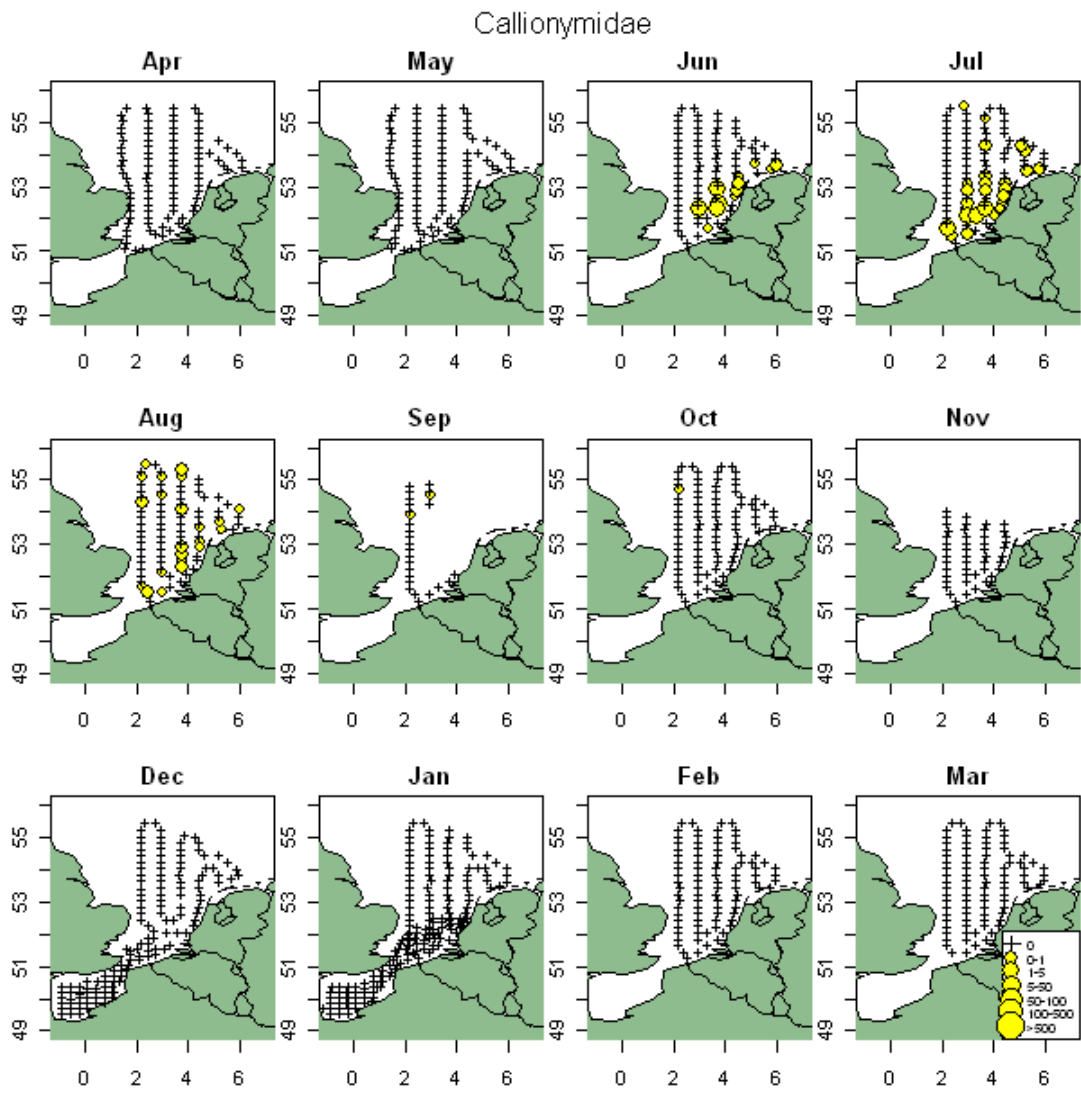


Figure 35h. Spatial and temporal distribution of bent notochord stage Callionymidae larvae.

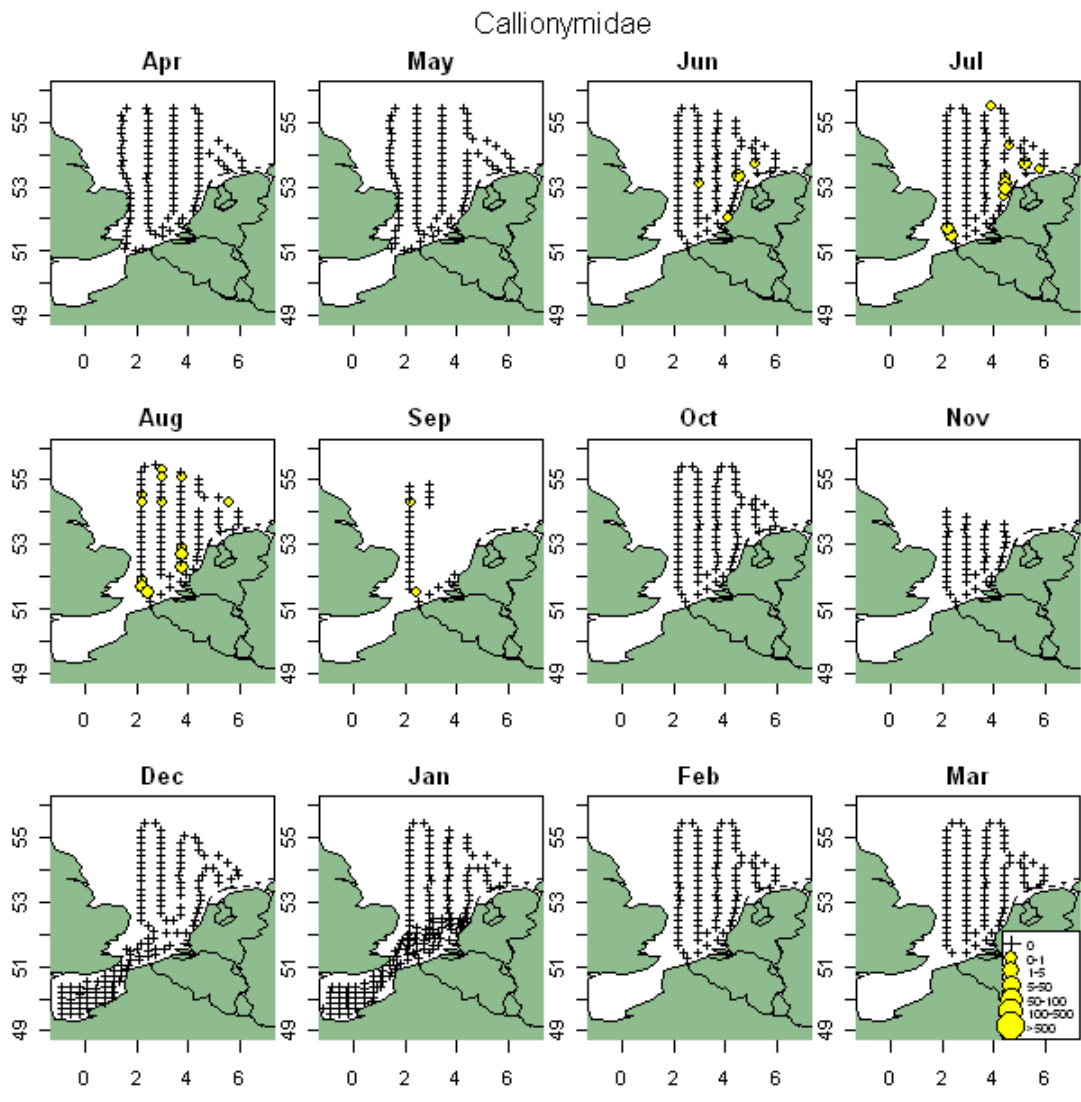


Figure 35i. Spatial and temporal distribution of metamorphosing Callionymidae larvae.

**Common dragonet *Callionymus lyra***

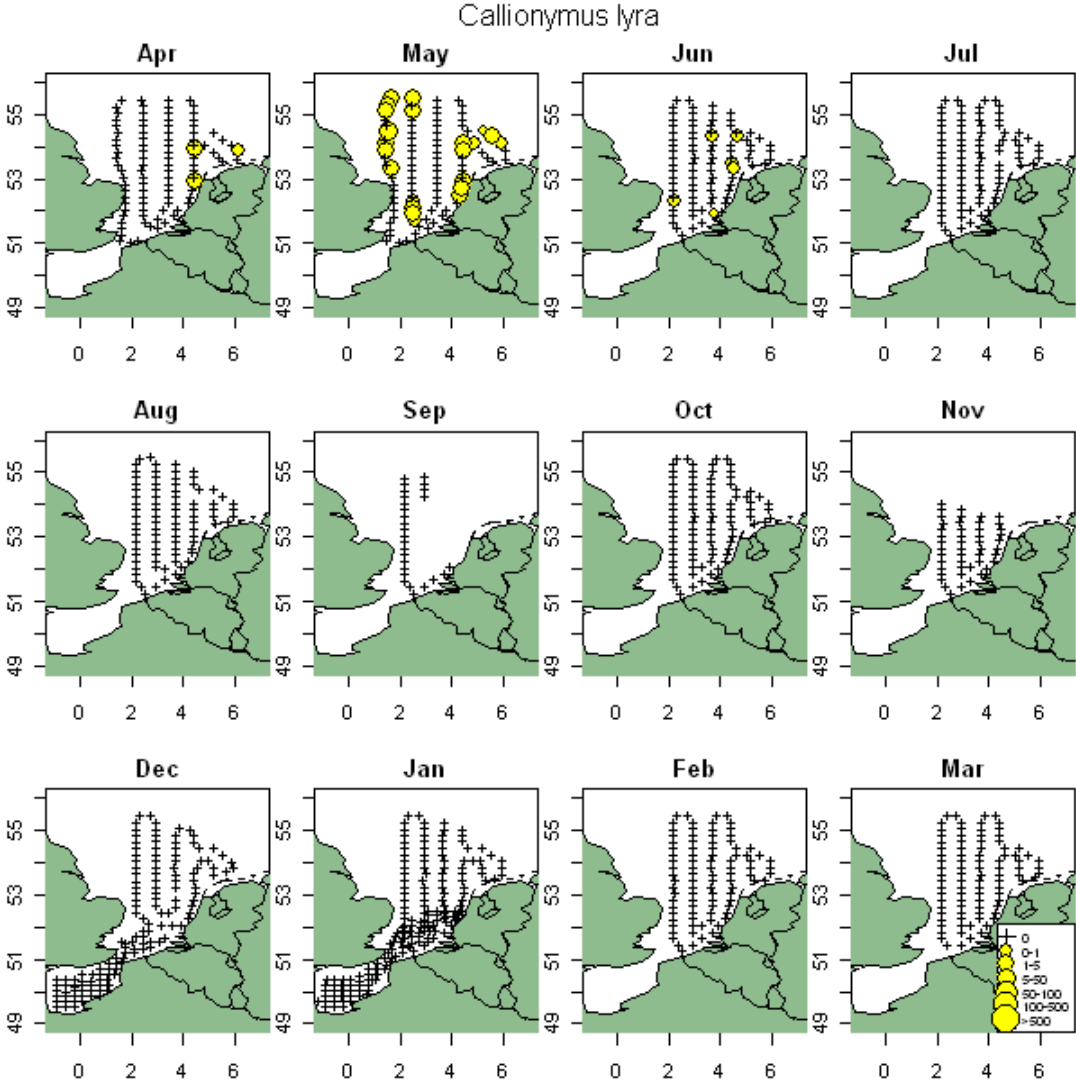


Figure 36a. Spatial and temporal distribution of stage 1 common dragonet eggs.

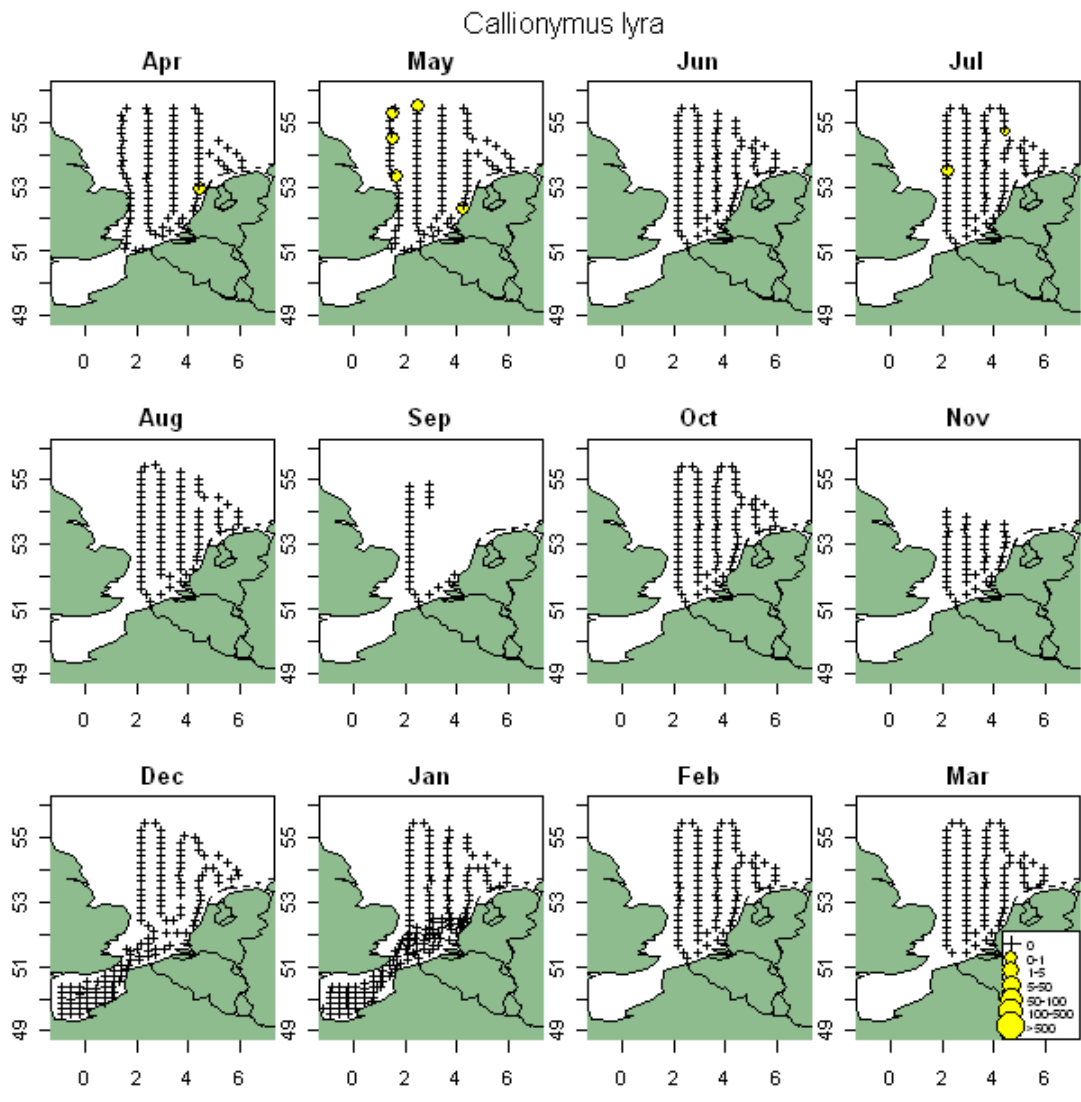


Figure 36b. Spatial and temporal distribution of stage 2 common dragonet eggs.

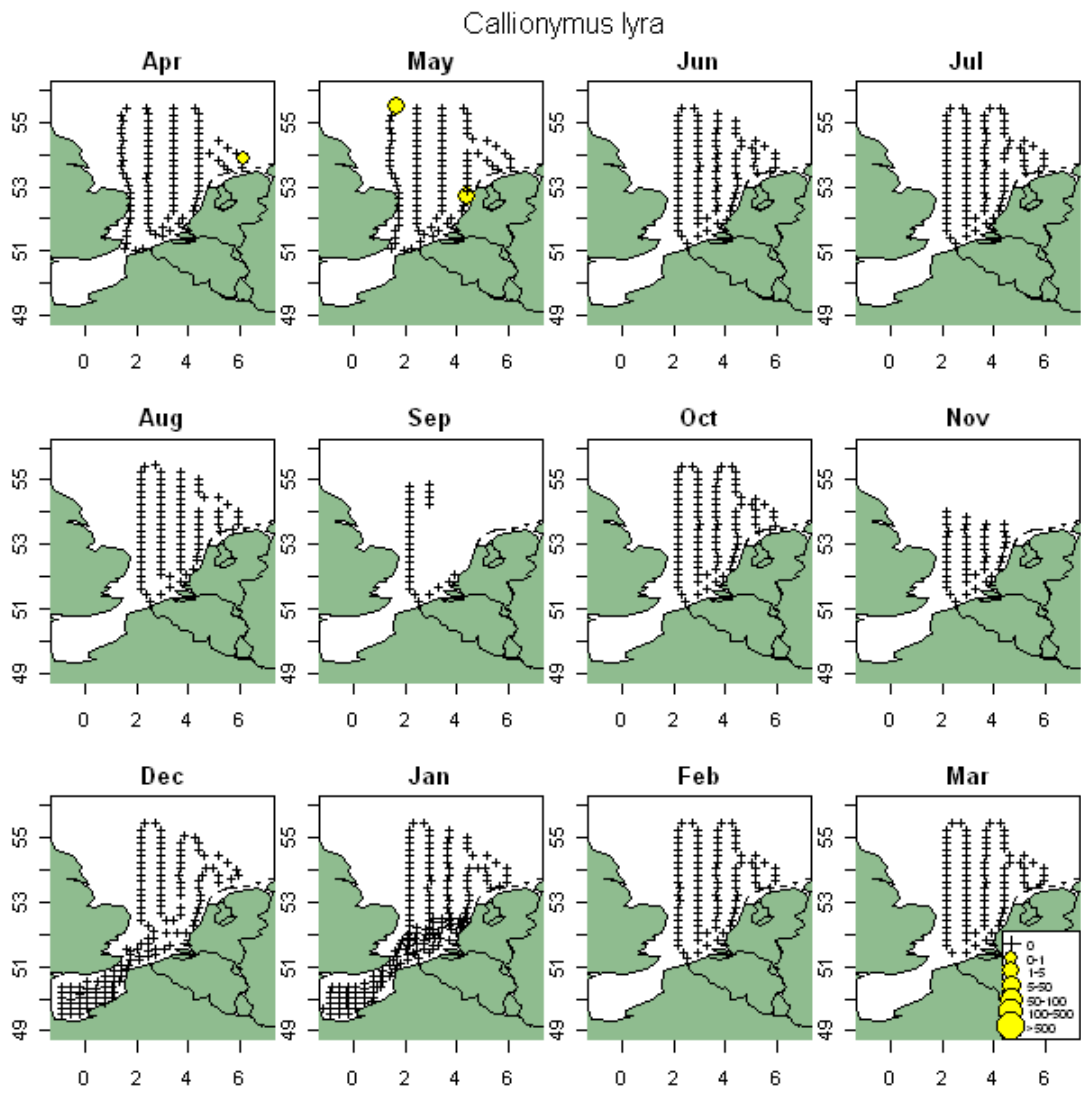


Figure 36c. Spatial and temporal distribution of stage 3 common dragonet eggs.

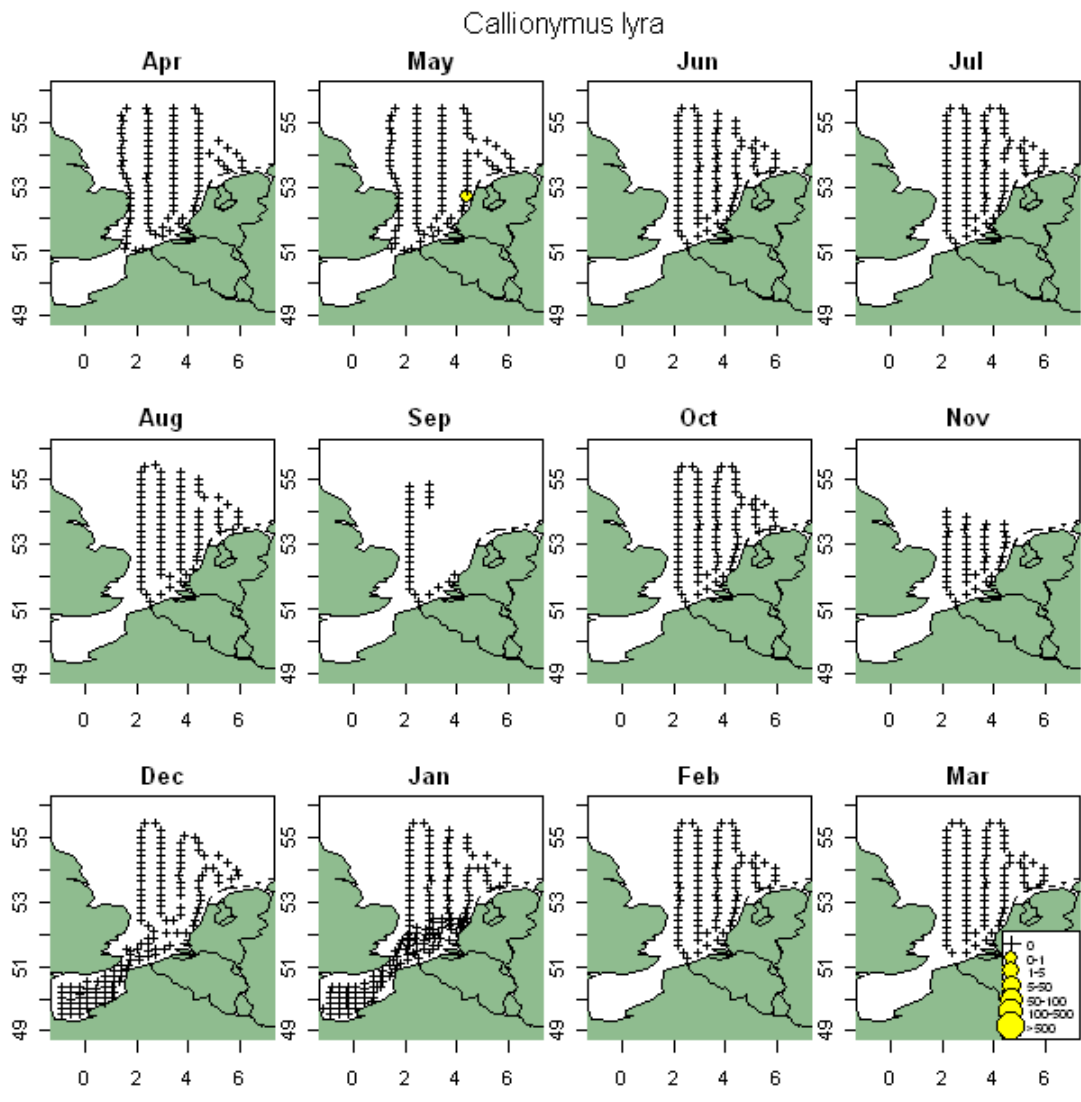


Figure 36d. Spatial and temporal distribution of stage 4 common dragonet eggs.

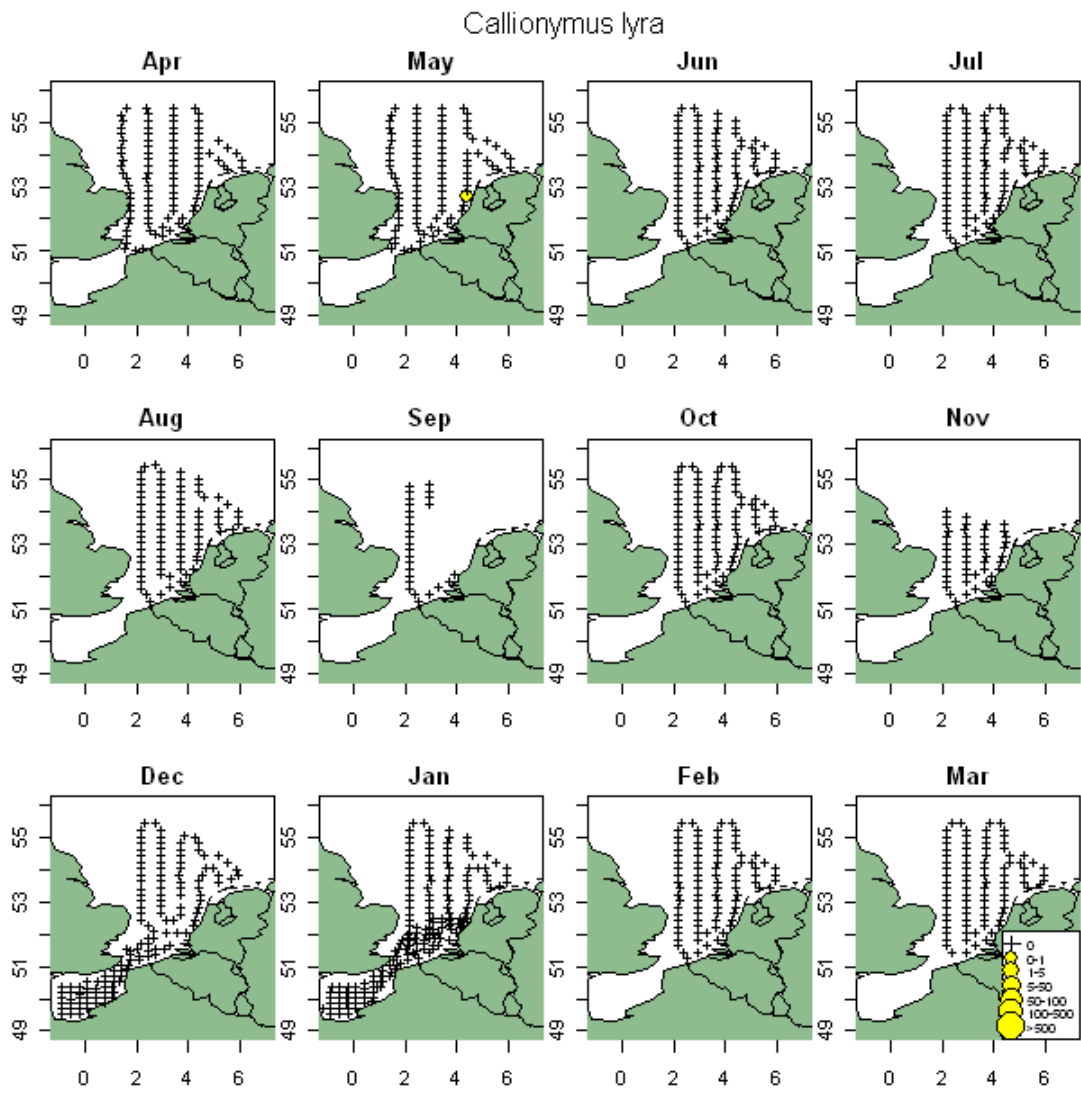


Figure 36e. Spatial and temporal distribution of stage 5 common dragonet eggs.



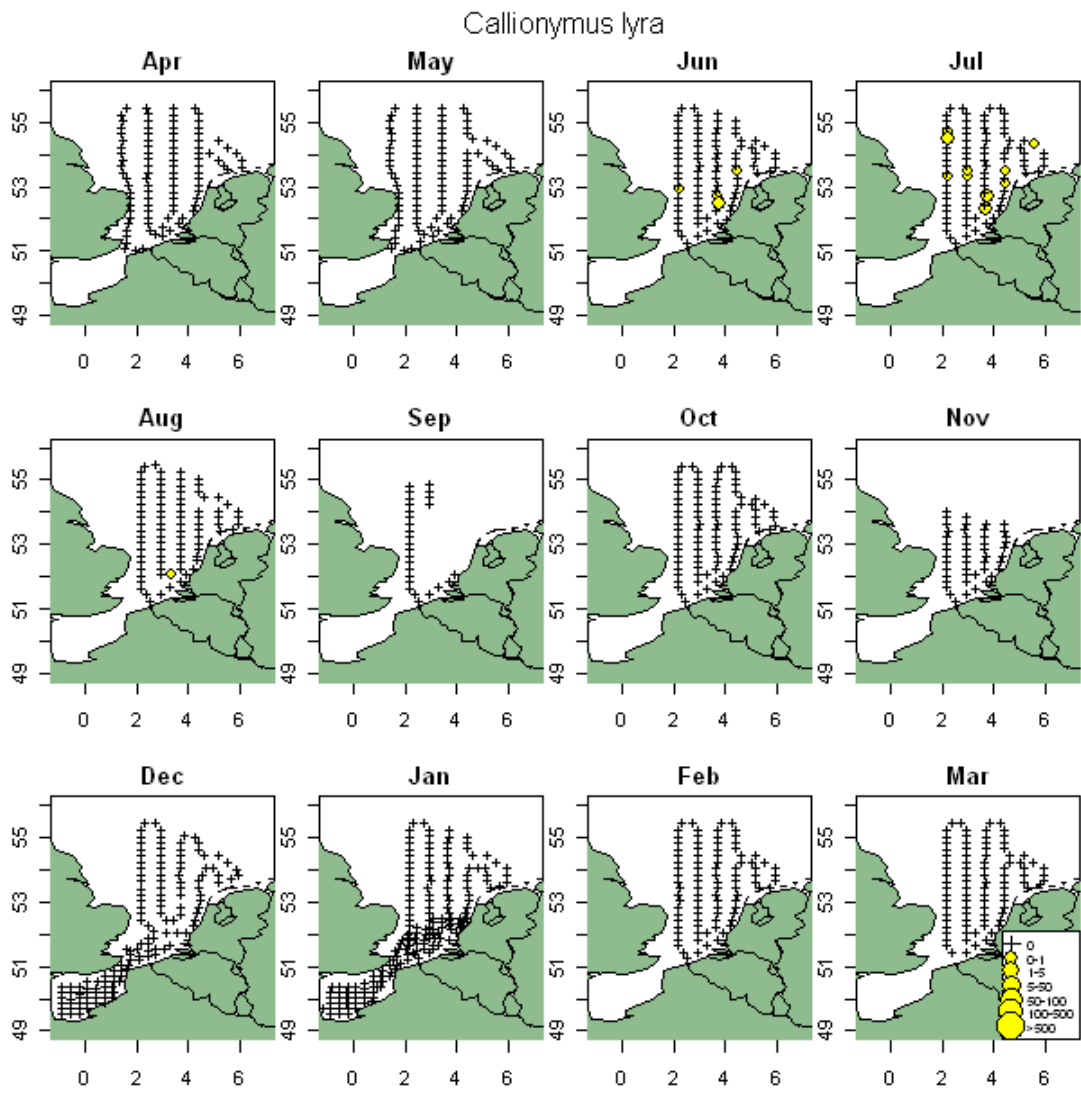


Figure 36f. Spatial and temporal distribution of yolk sac common dragonet larvae.

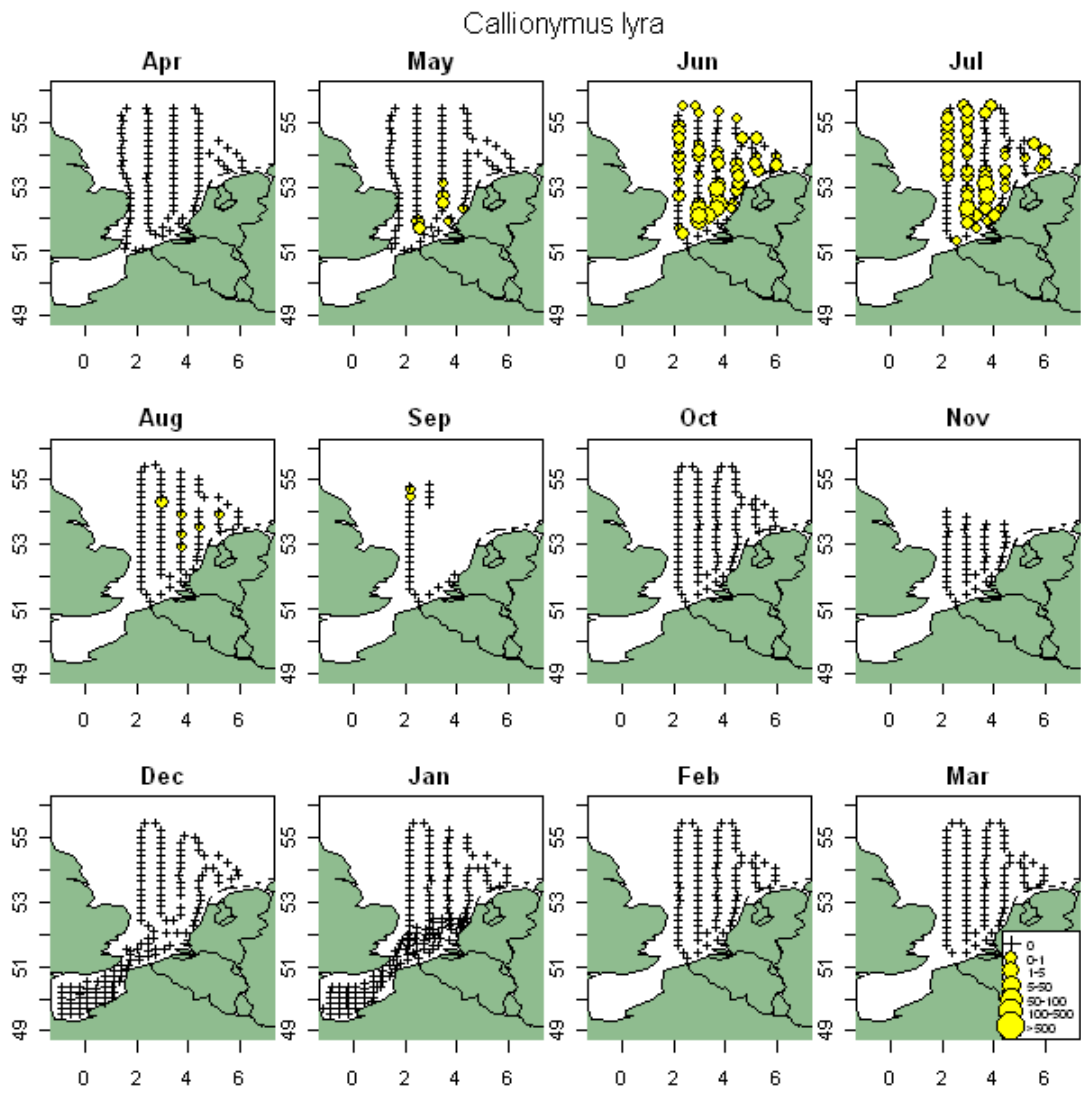


Figure 36g. Spatial and temporal distribution of non-yolk sac common dragonet larvae.

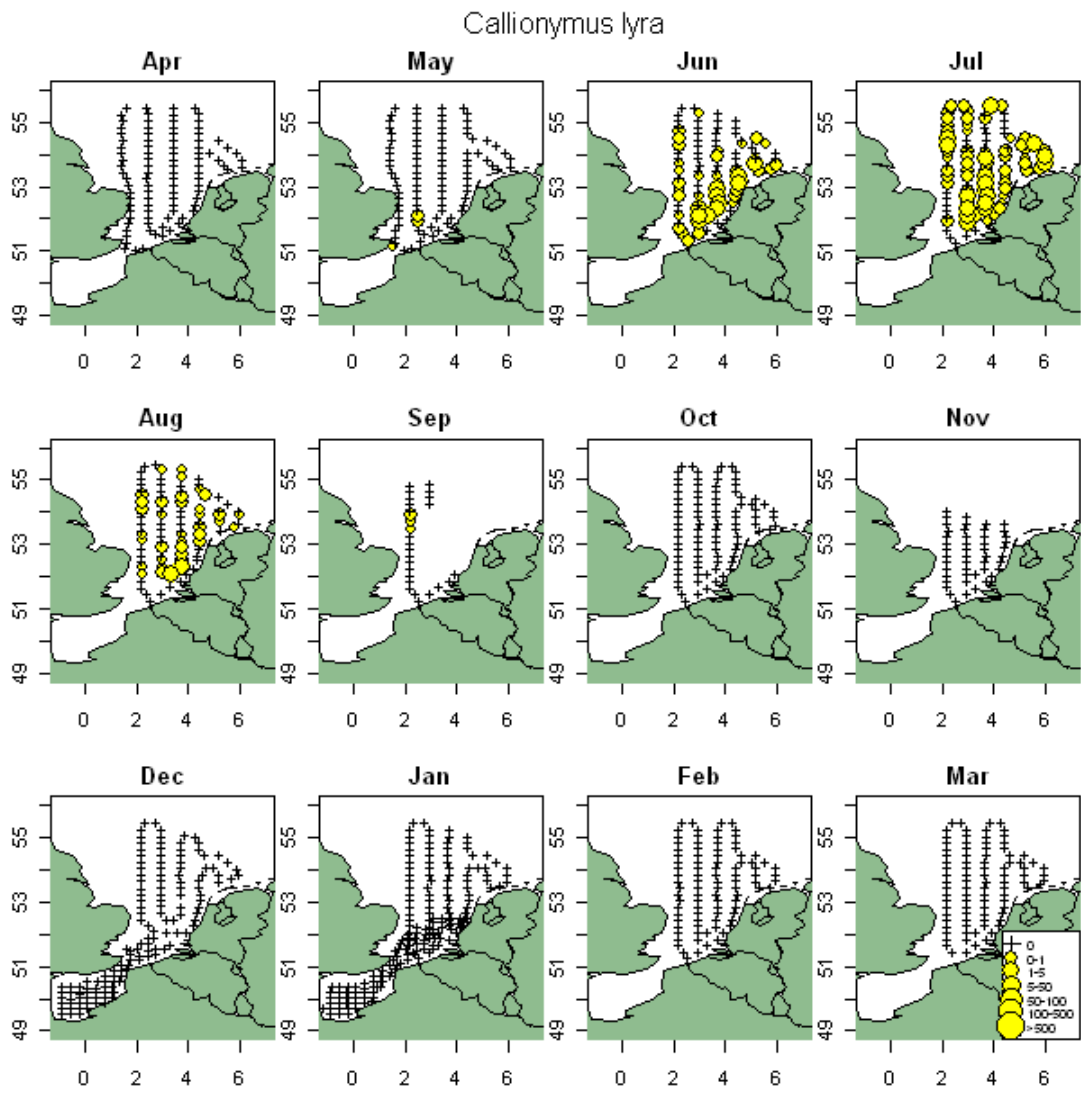


Figure 36h. Spatial and temporal distribution of bent notochord stage common dragonet larvae.

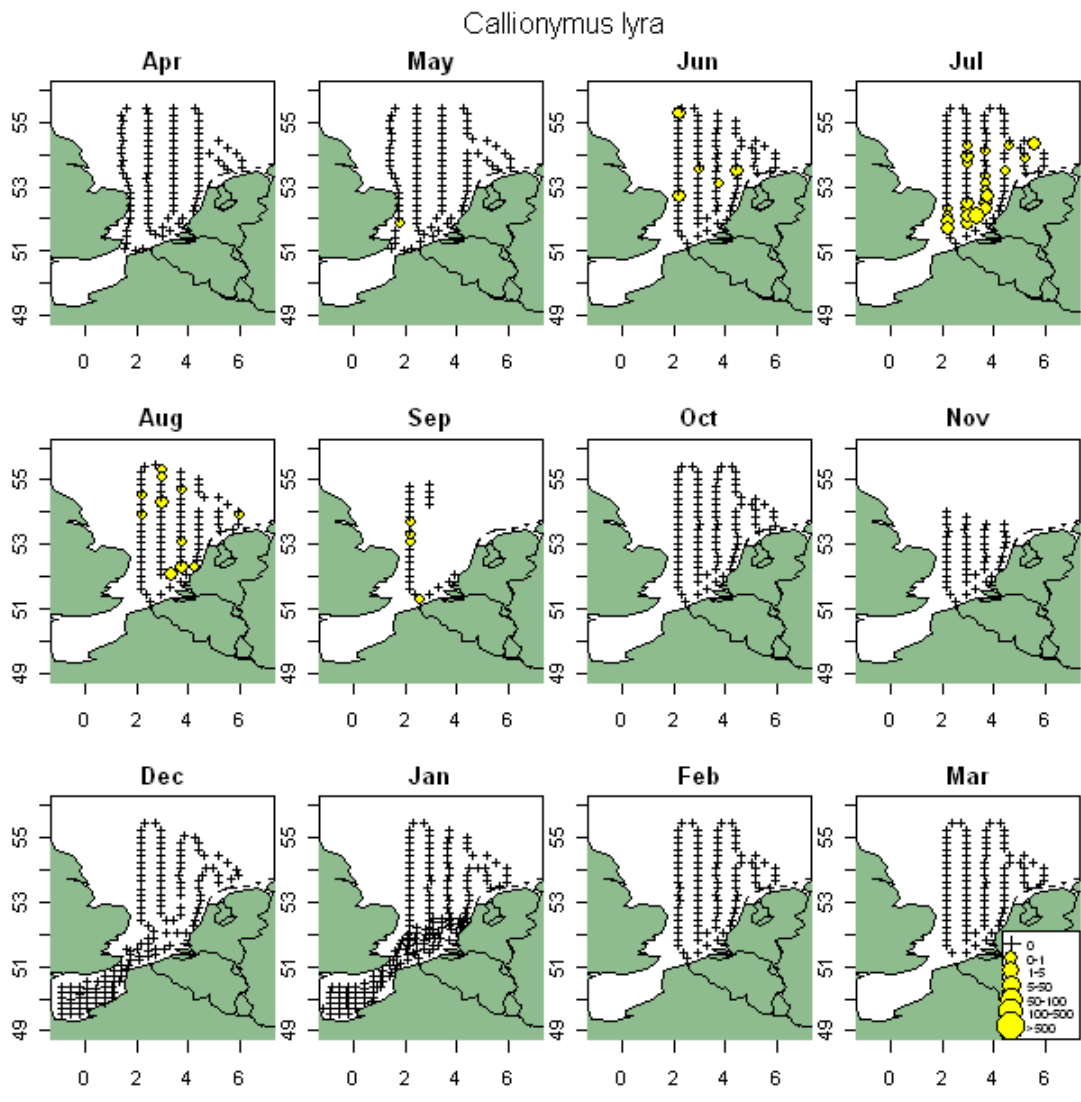


Figure 36i. Spatial and temporal distribution of metamorphosing common dragonet larvae.

**Spotted dragonet *Callionymus maculatus***

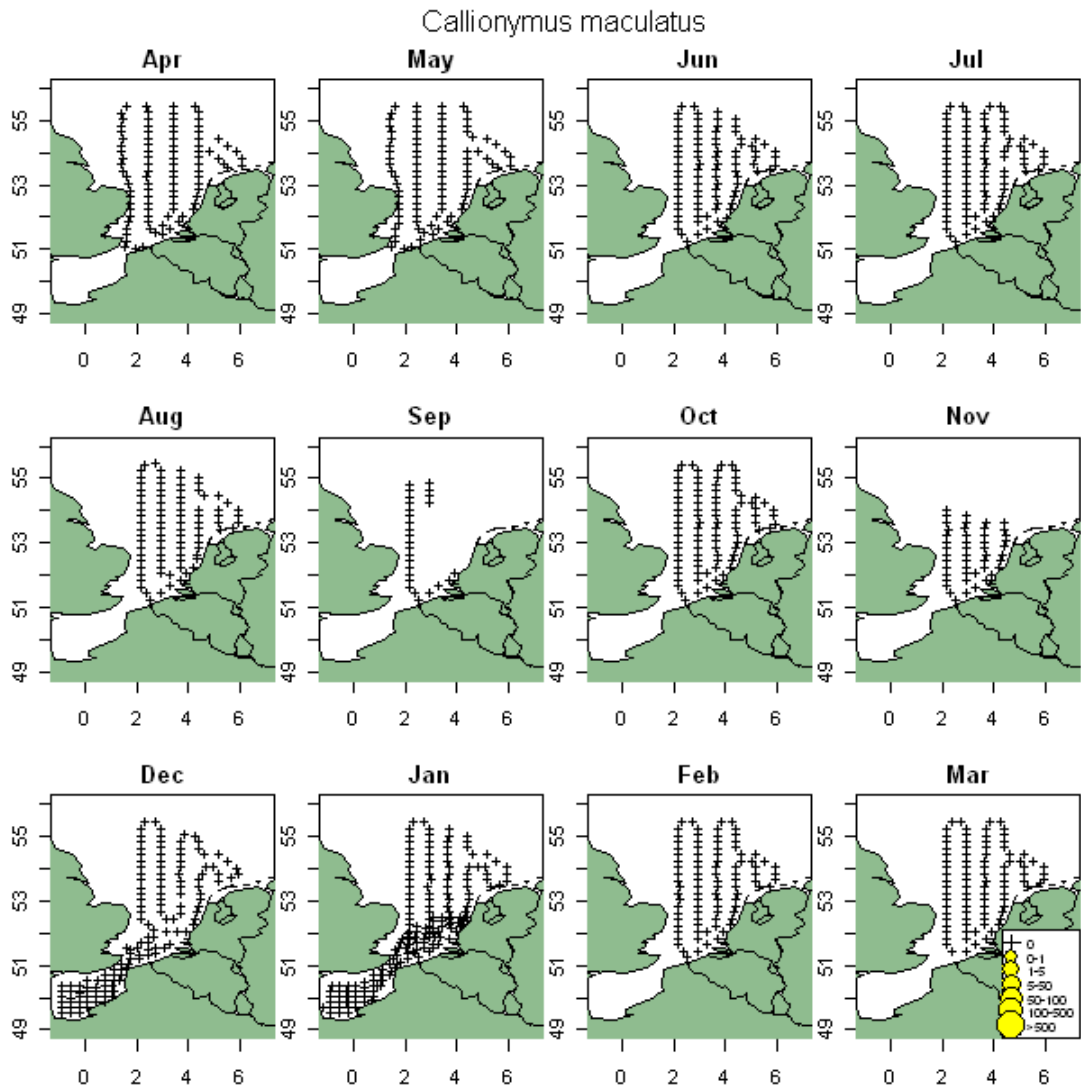


Figure 37a. Spatial and temporal distribution of yolk sac spotted dragonet larvae.

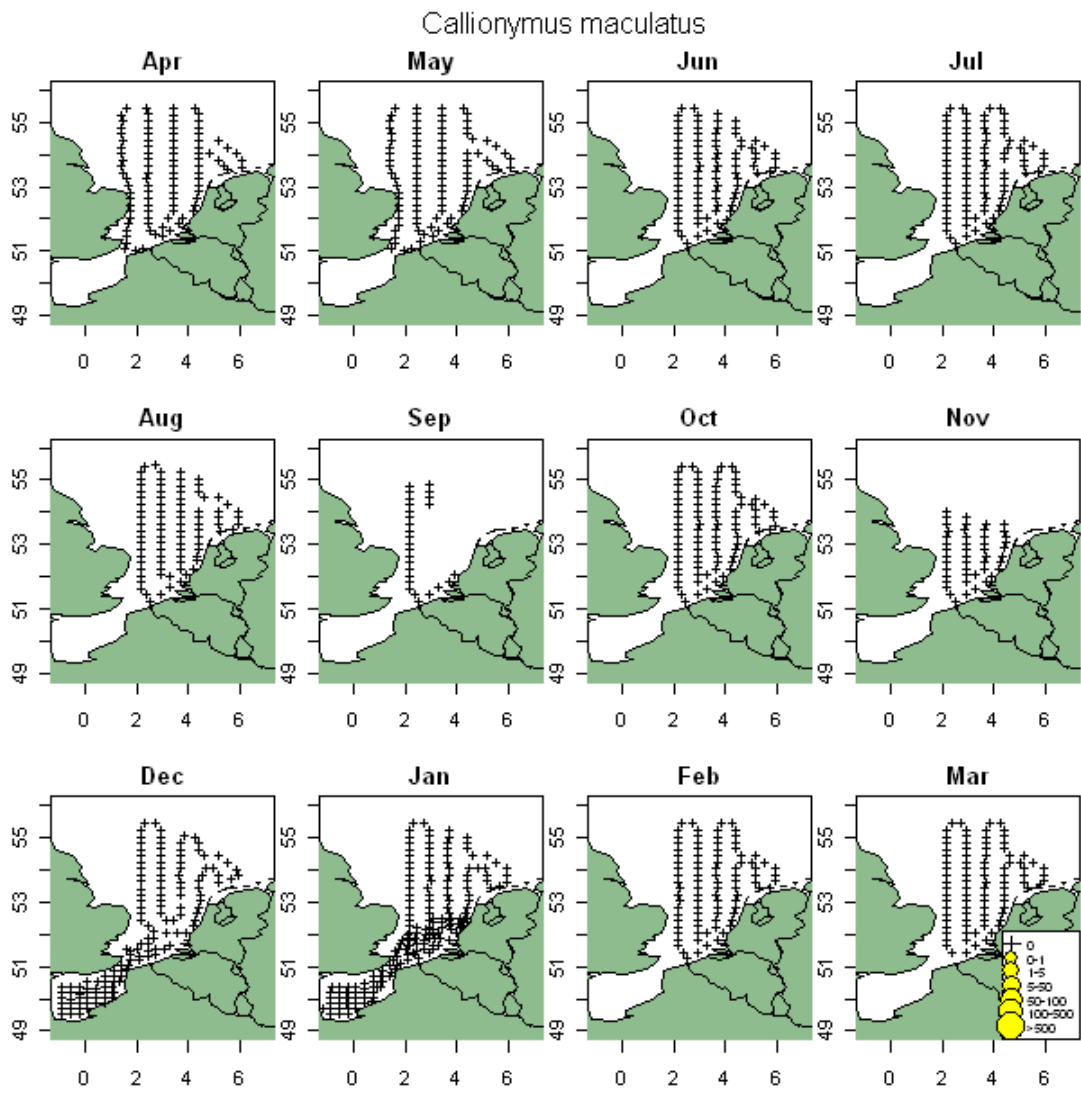


Figure 37b. Spatial and temporal distribution of non-yolk sac spotted dragonet larvae.

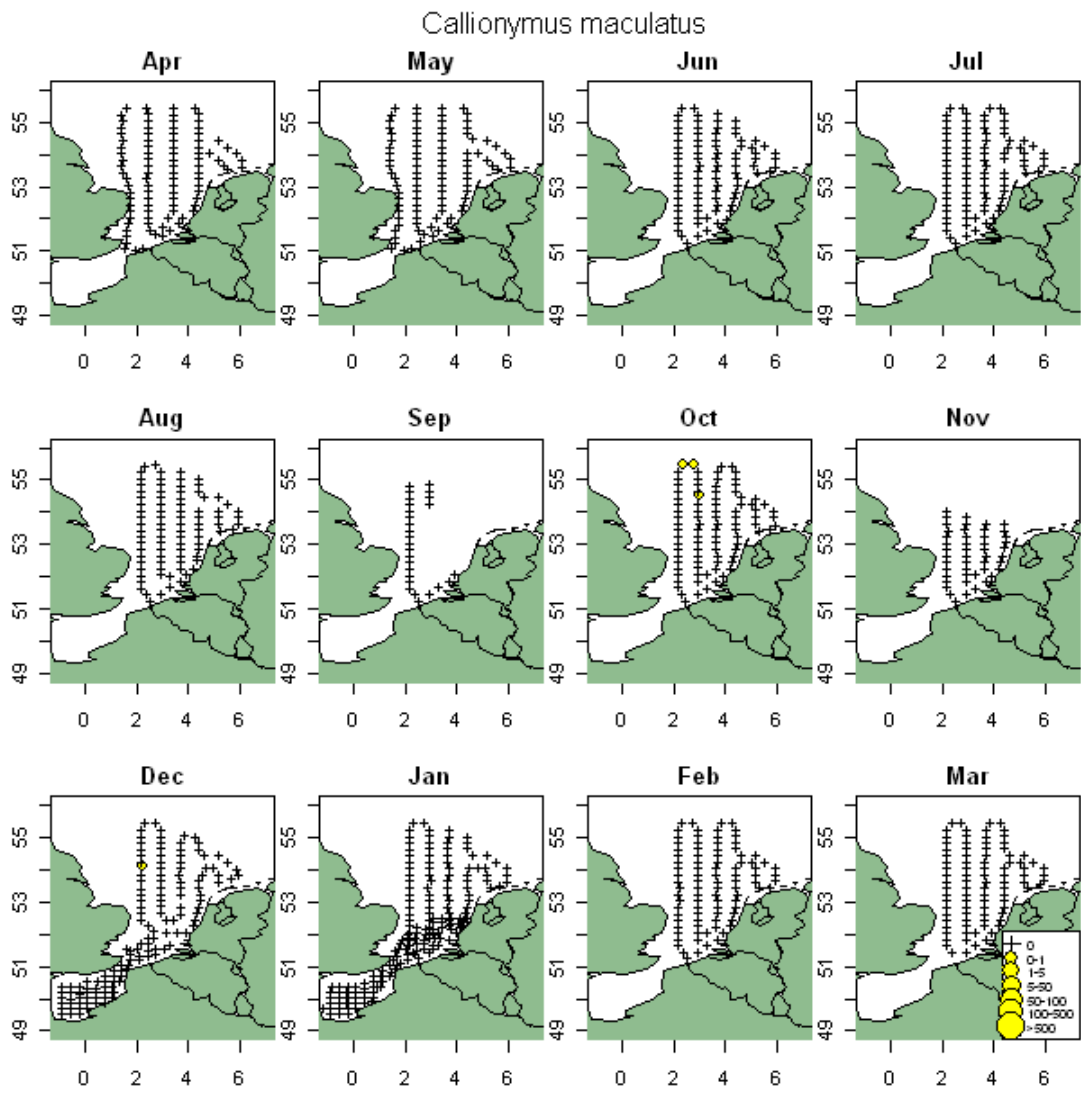


Figure 37c. Spatial and temporal distribution of bent notochord stage spotted dragonet larvae.

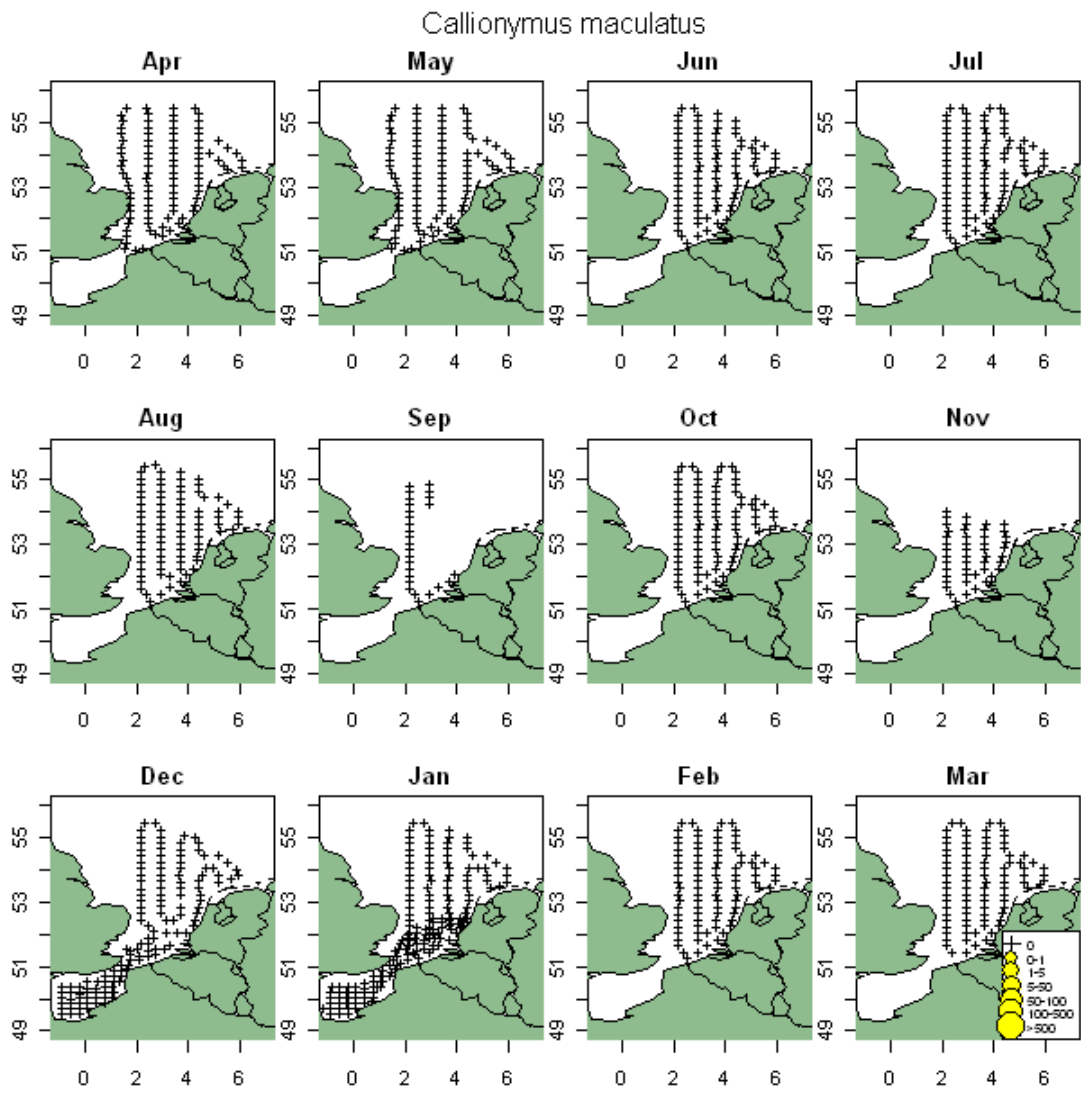


Figure 37d. Spatial and temporal distribution of metamorphosing spotted dragonet larvae.



**Butterfish *Pholis gunnellus***

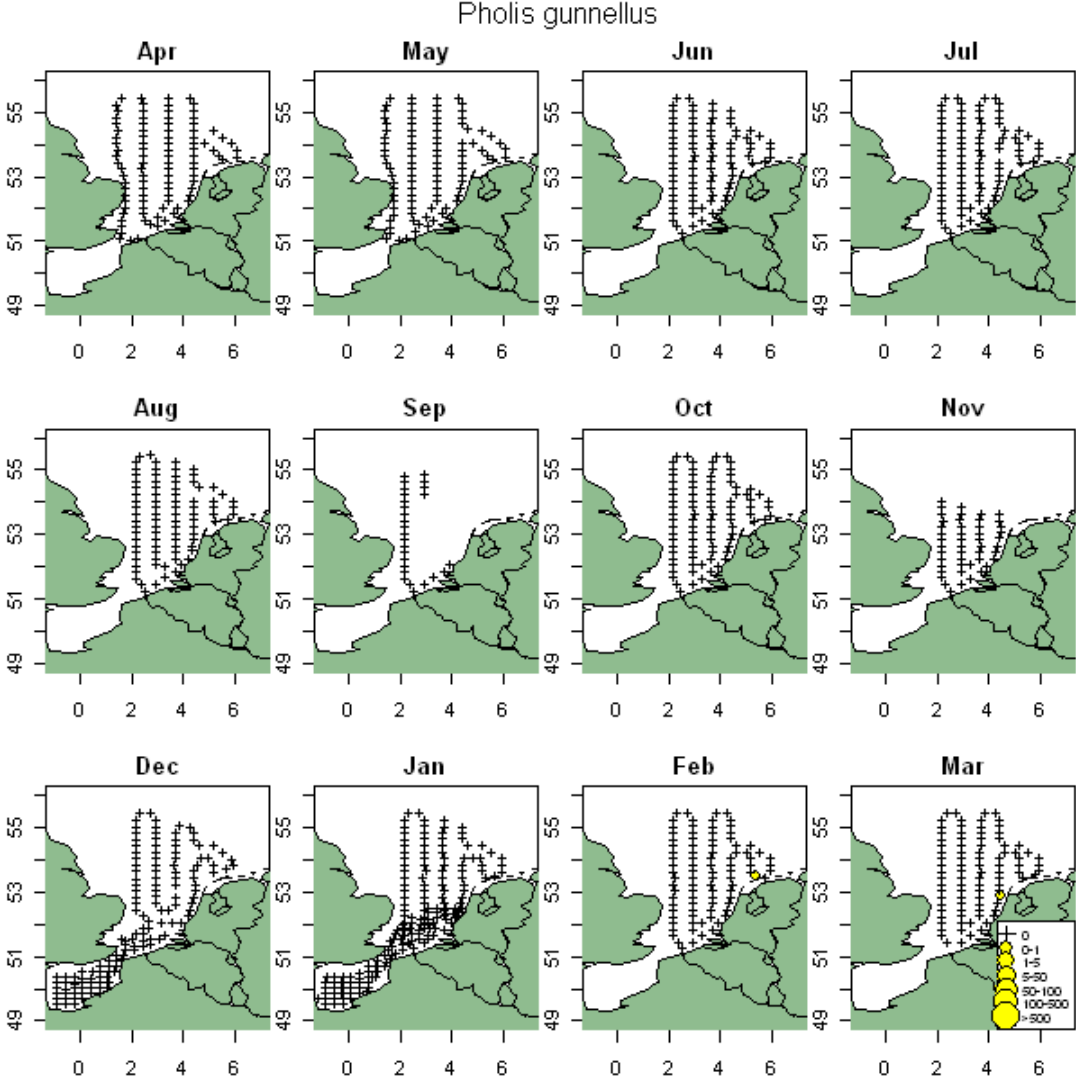


Figure 38a. Spatial and temporal distribution of yolk sac butterfish larvae.

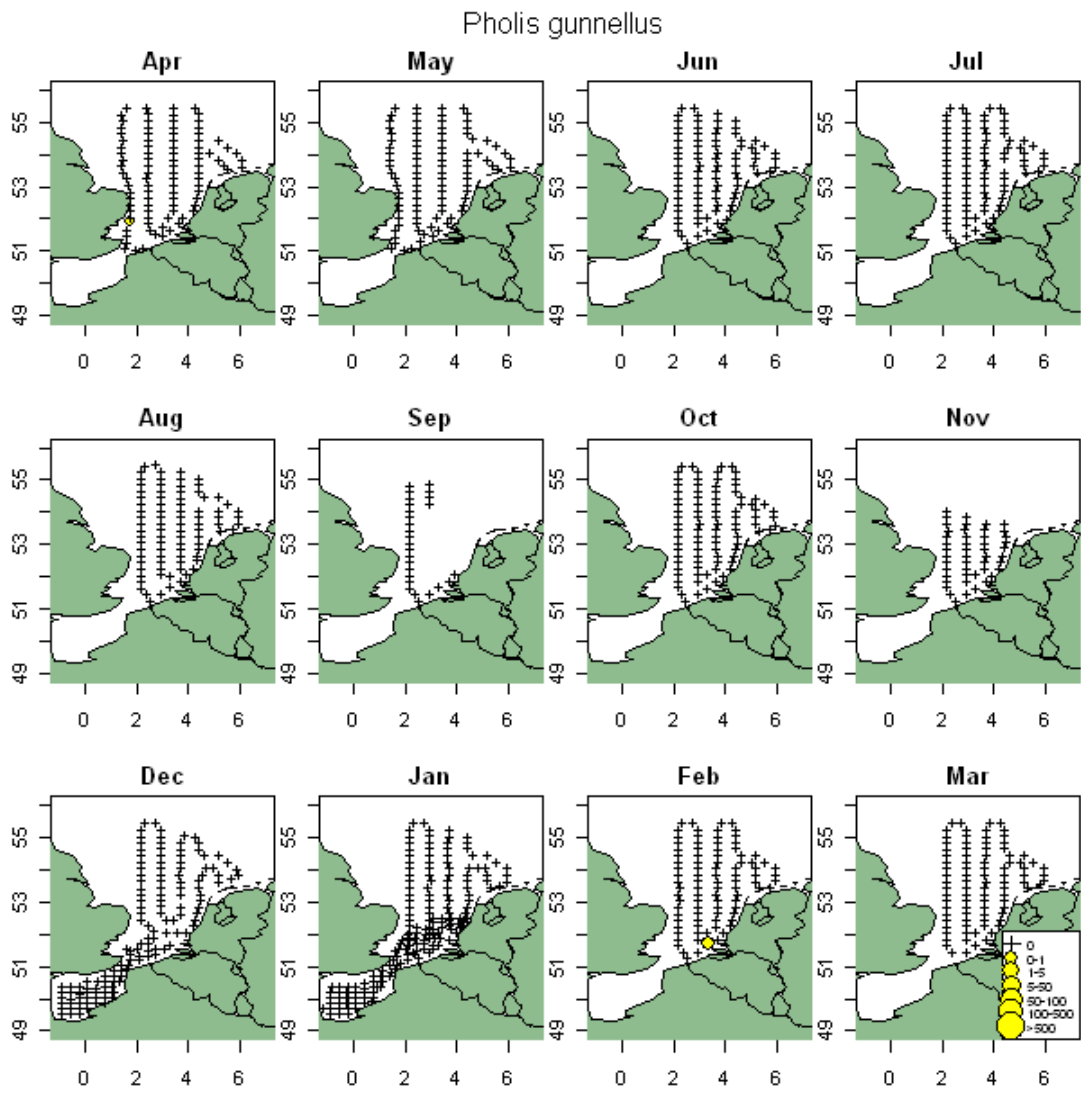


Figure 38b. Spatial and temporal distribution of non-yolk sac butterfish larvae.

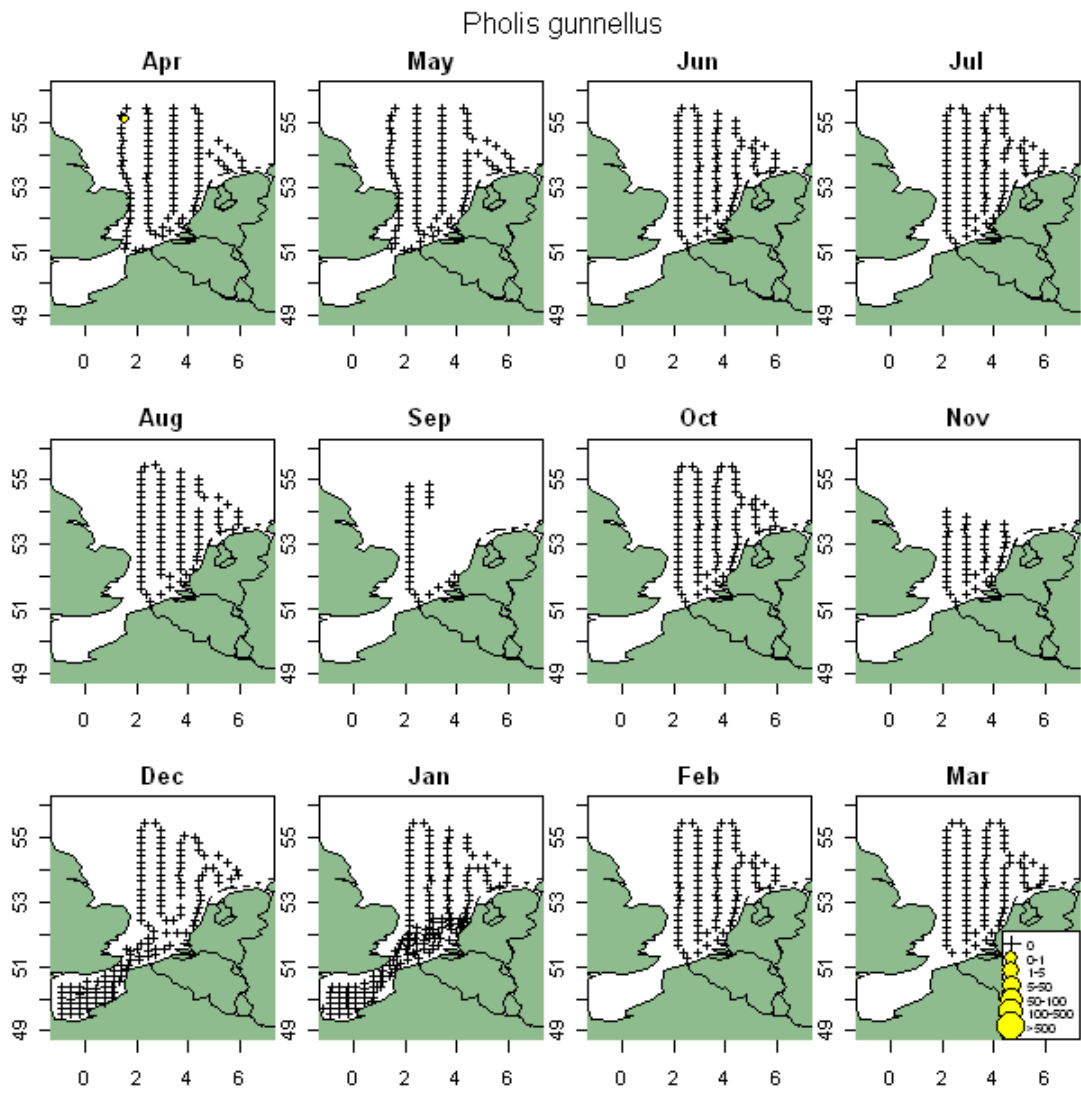


Figure 38c. Spatial and temporal distribution of bent notochord stage butterfish larvae.

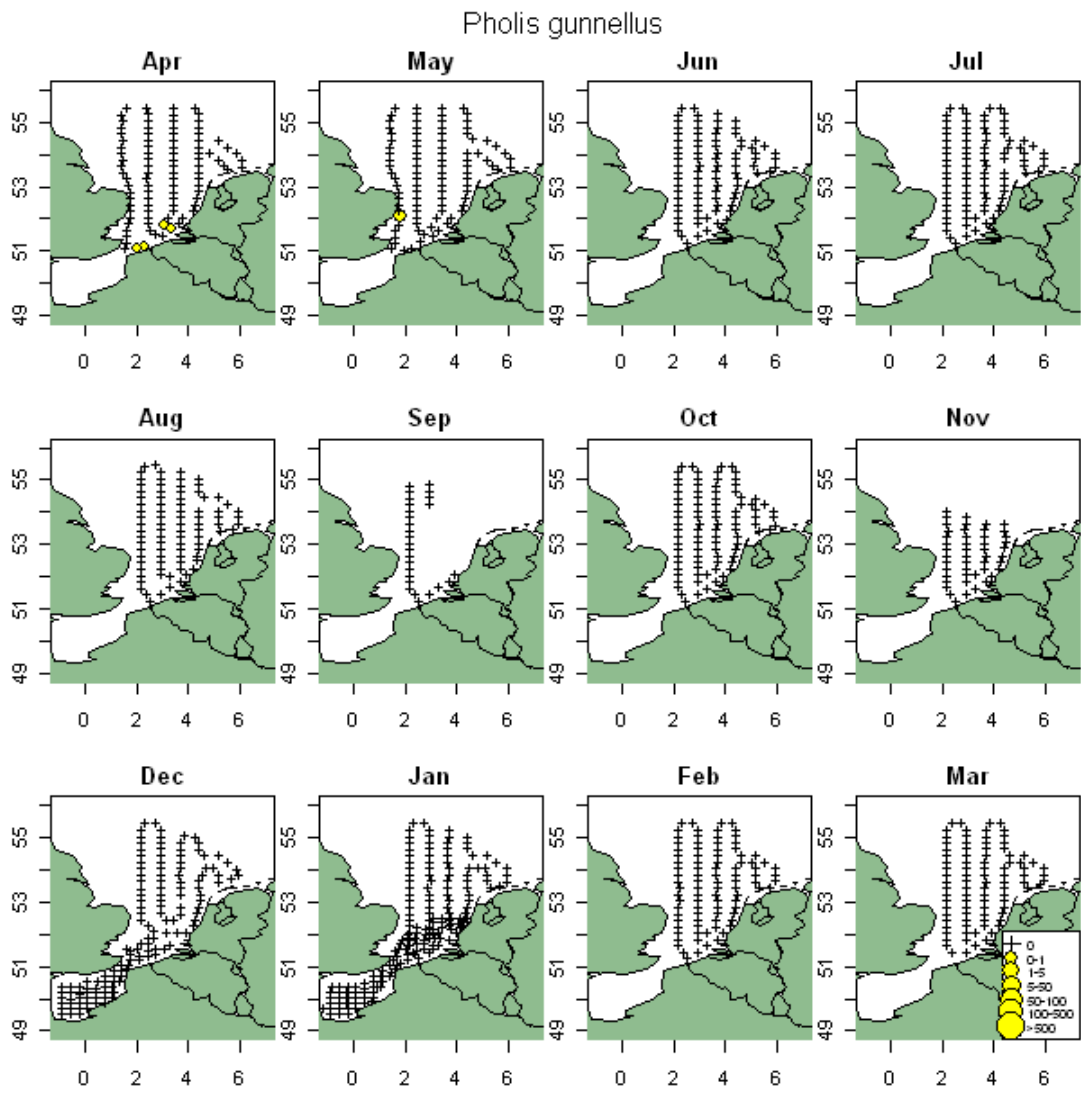


Figure 38d. Spatial and temporal distribution of metamorphosing butterfish larvae.

## Triglidae like

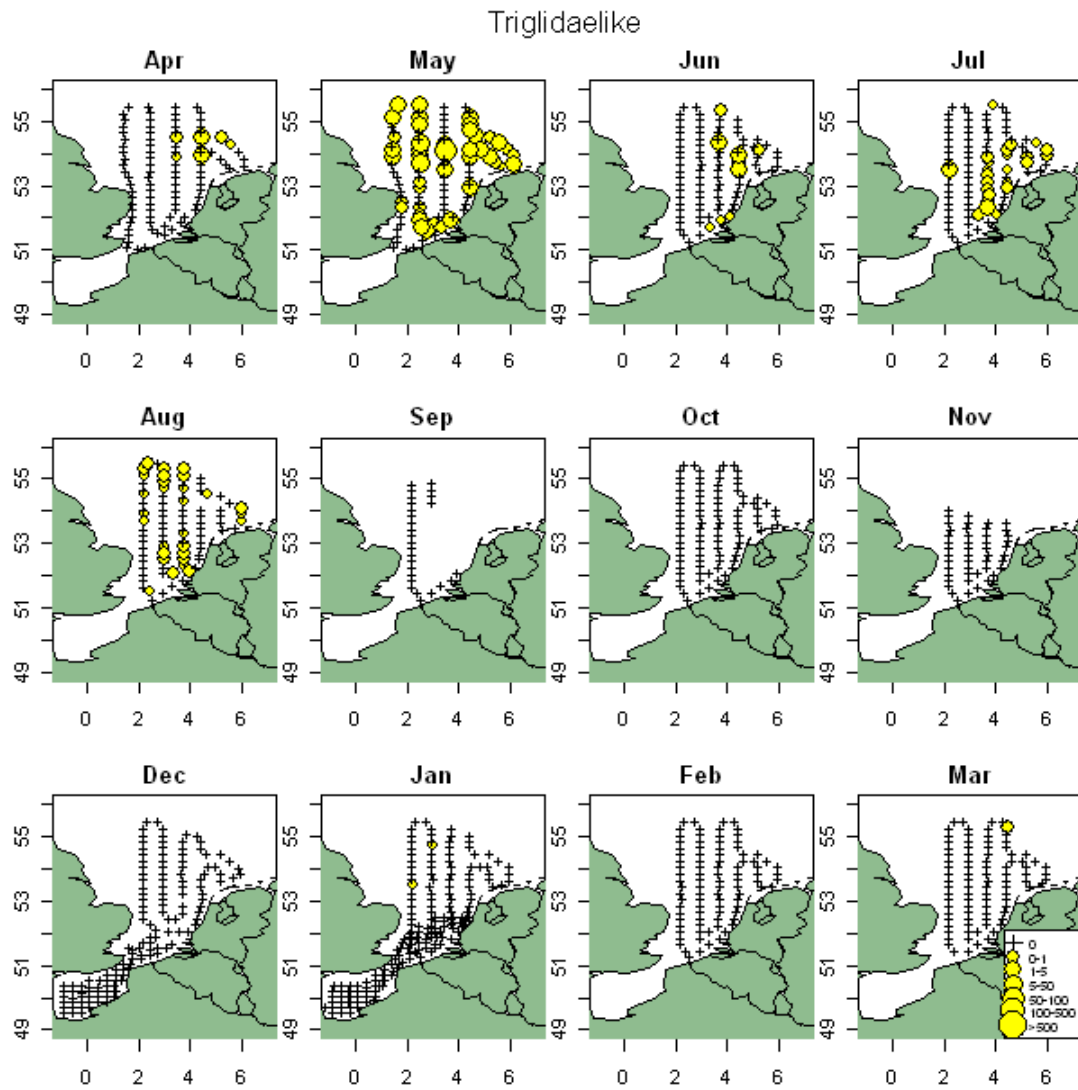


Figure 39a. Spatial and temporal distribution of stage 1 Triglidae like eggs.

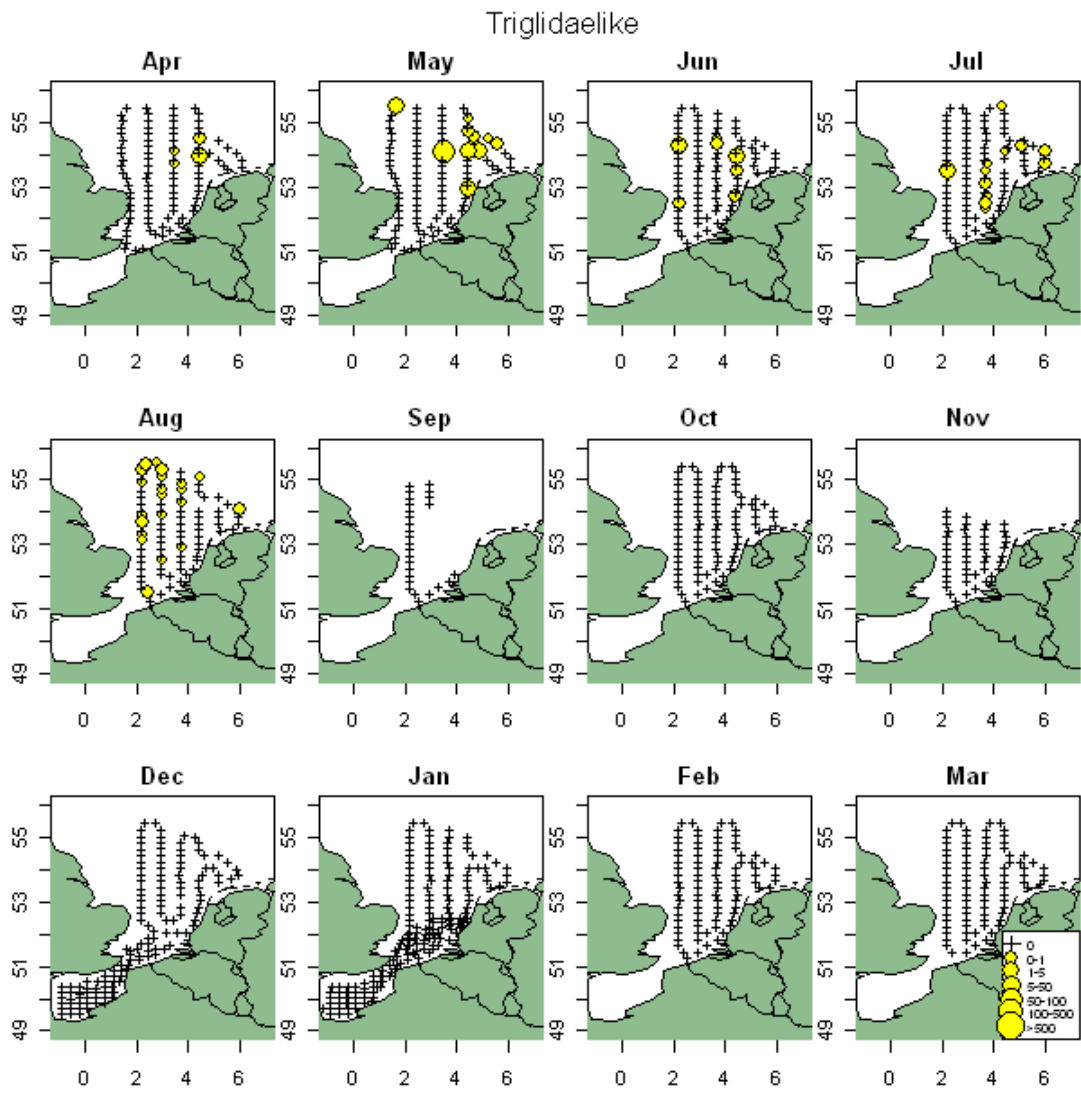


Figure 39b. Spatial and temporal distribution of stage 2 Triglidae like eggs.

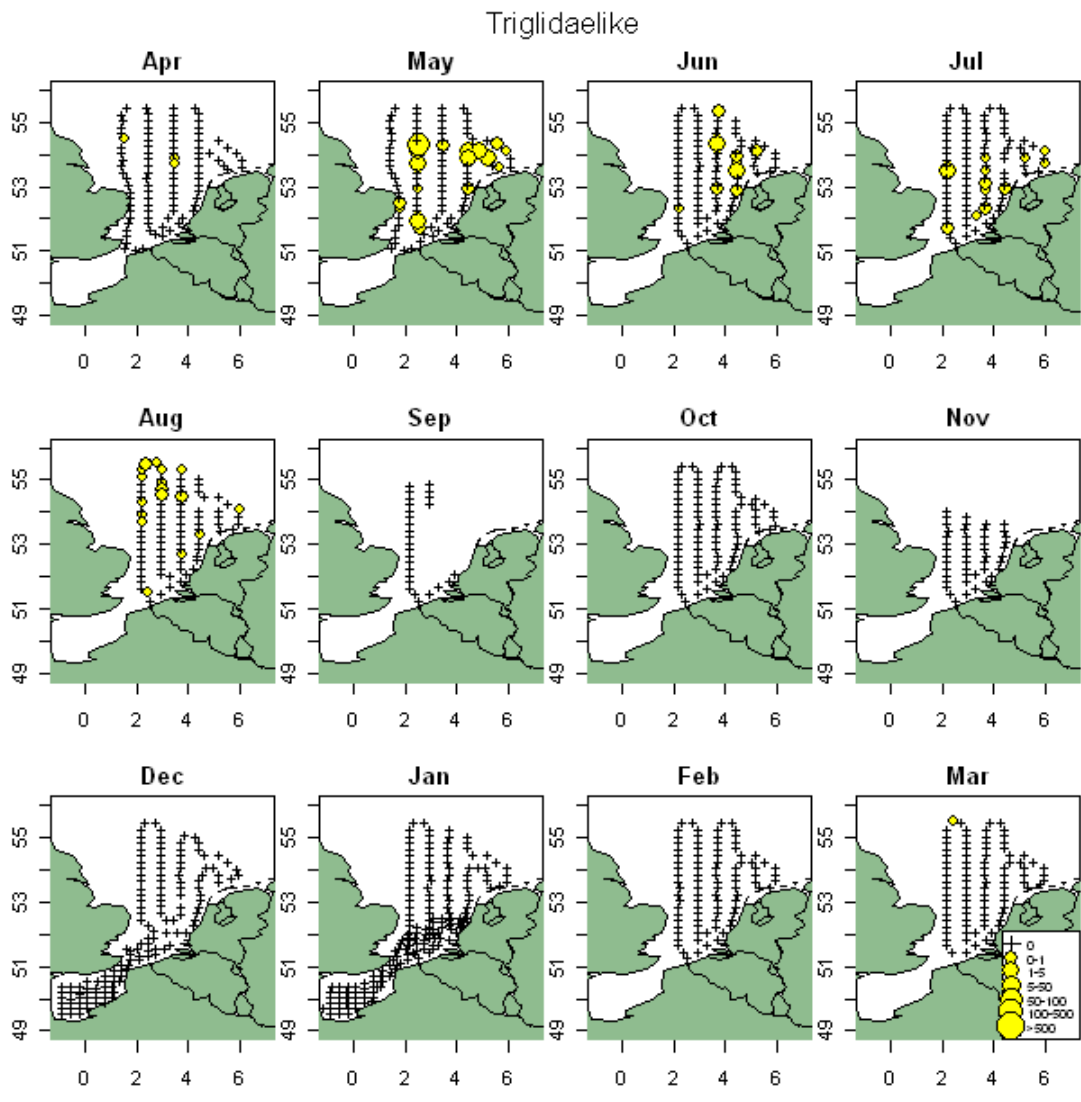


Figure 39c. Spatial and temporal distribution of stage 3 Triglidae like eggs.

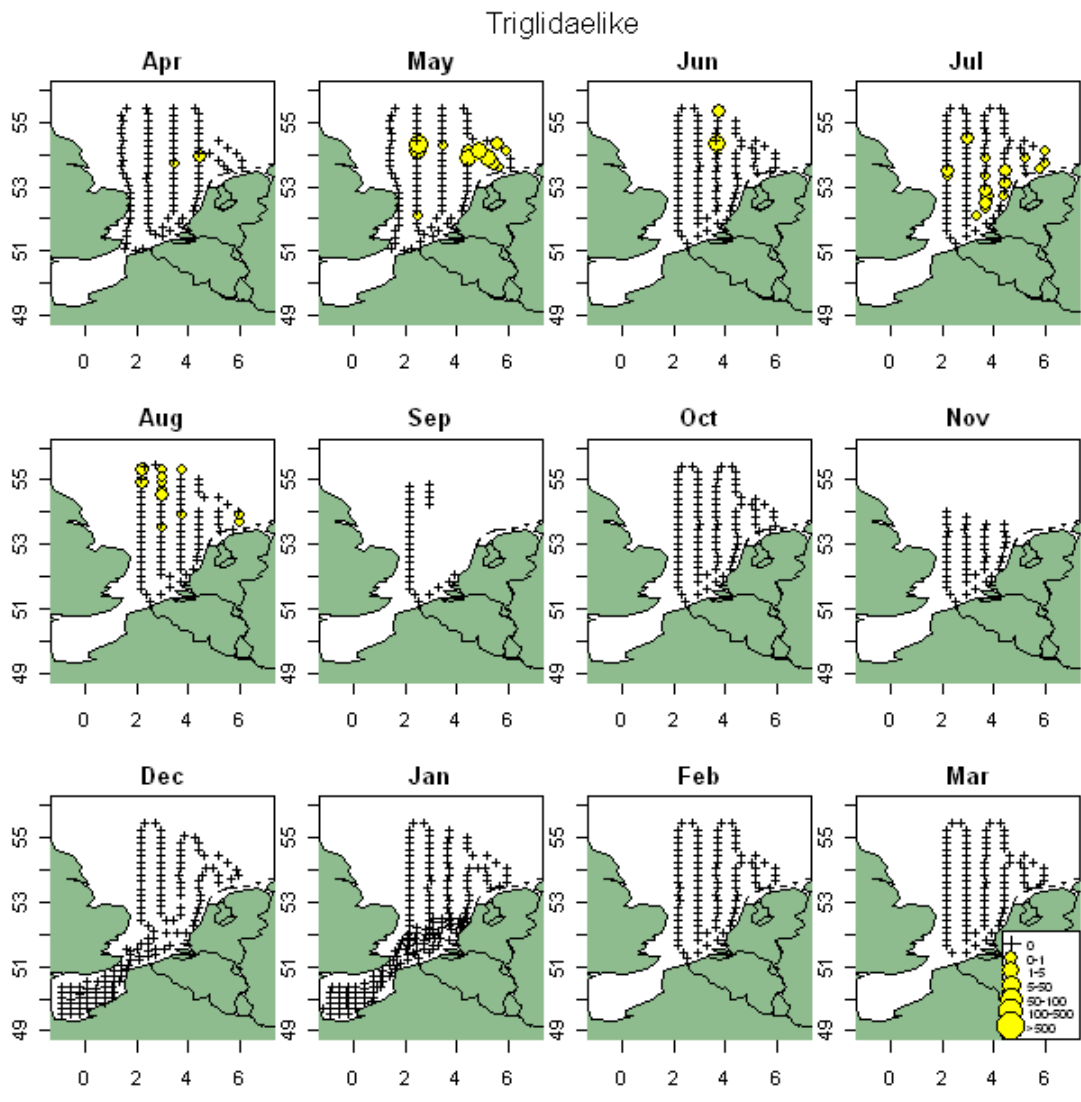


Figure 39d. Spatial and temporal distribution of stage 4 Triglidae like eggs.



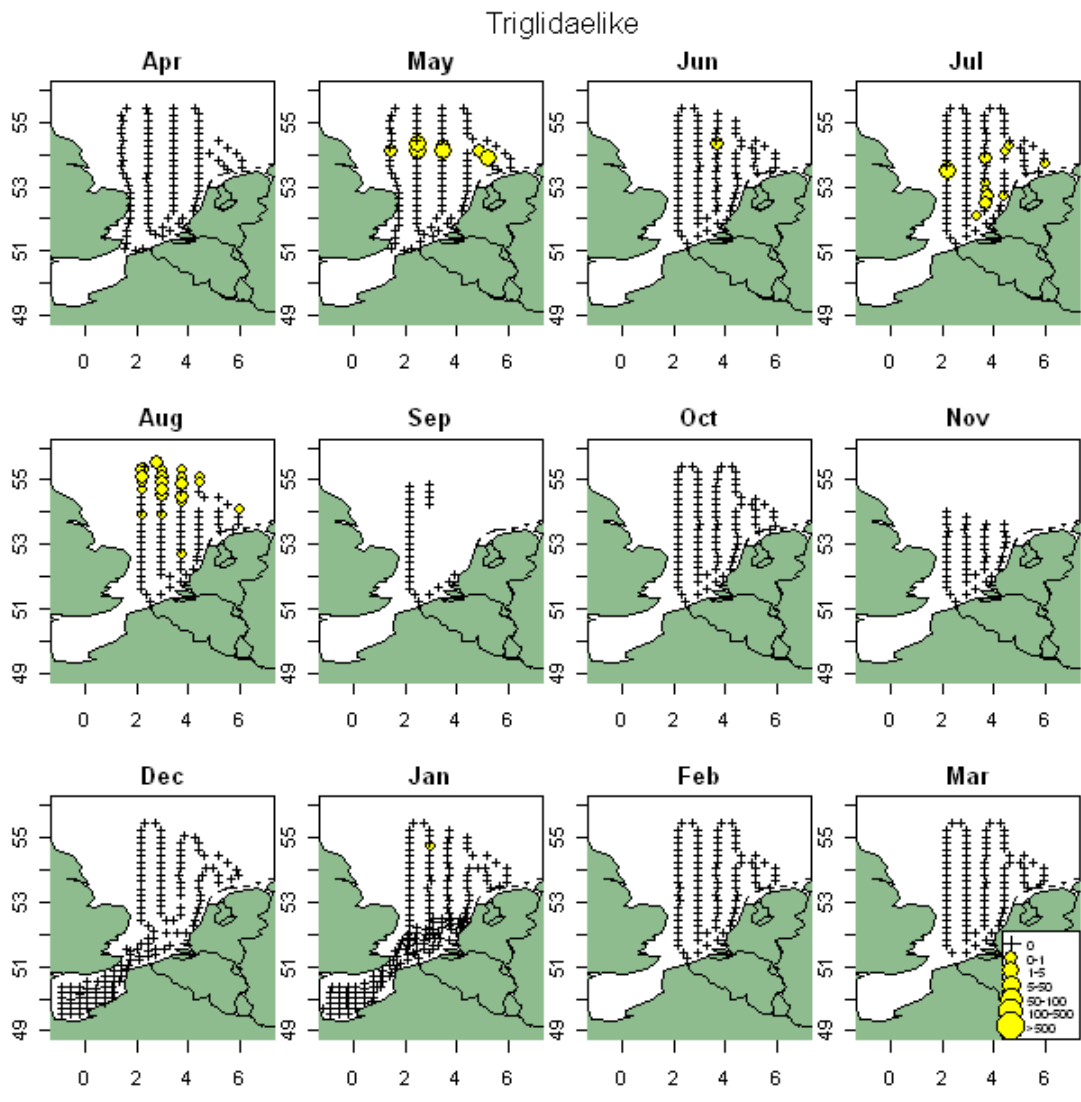


Figure 39e. Spatial and temporal distribution of stage 5 Triglidae like eggs.

## Triglidae

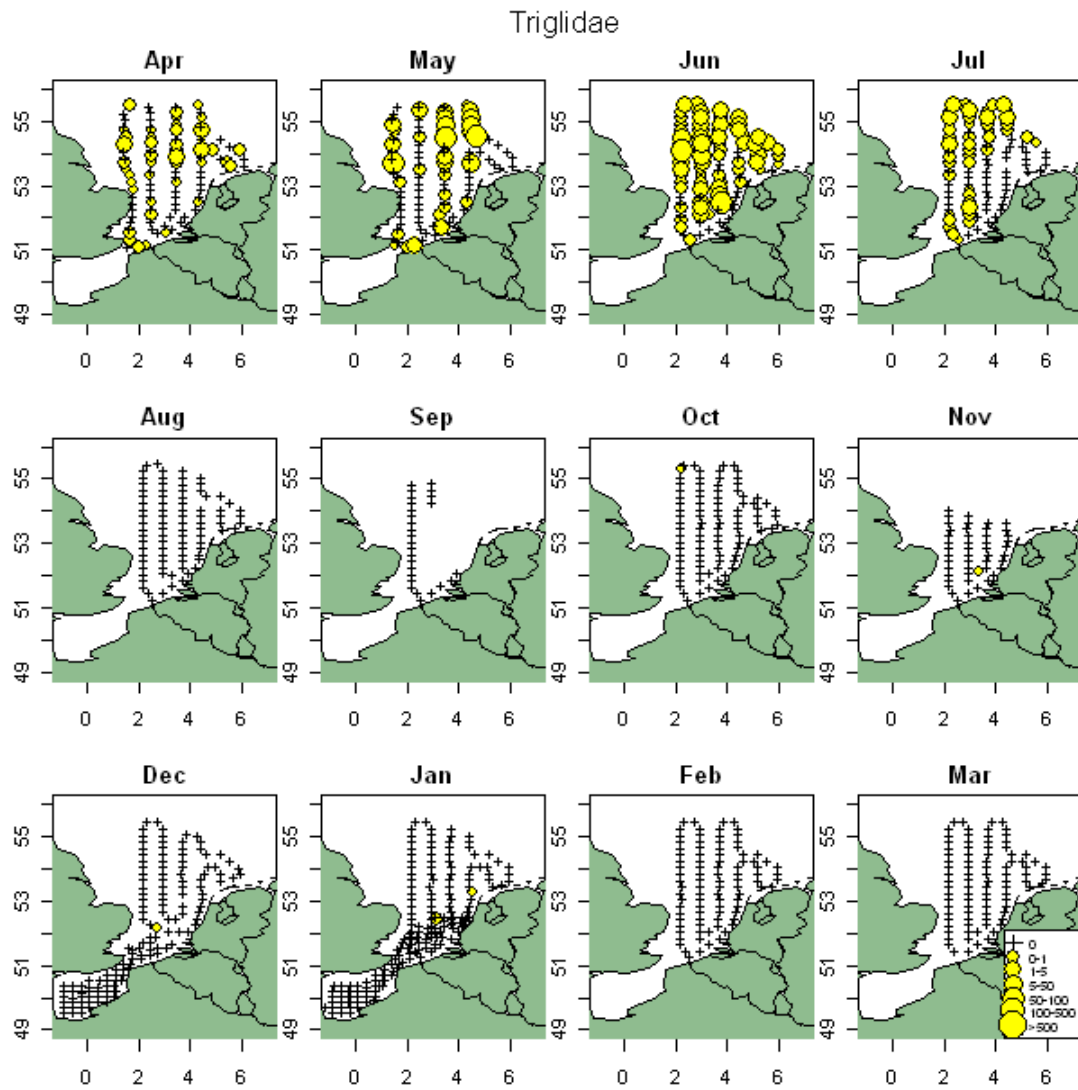


Figure 40a. Spatial and temporal distribution of stage 1 triglidae eggs.

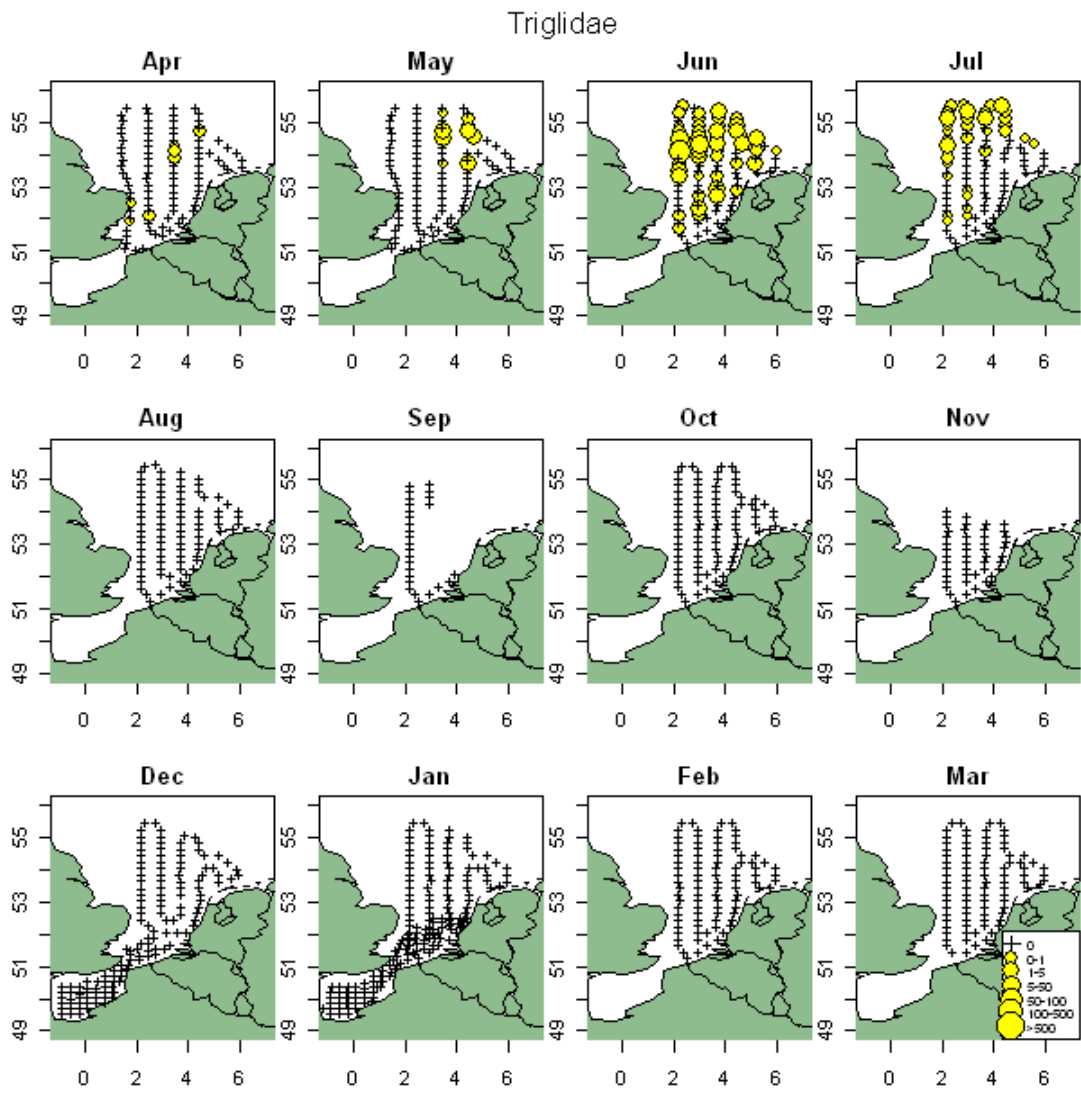


Figure 40b. Spatial and temporal distribution of stage 2 triglidae eggs.

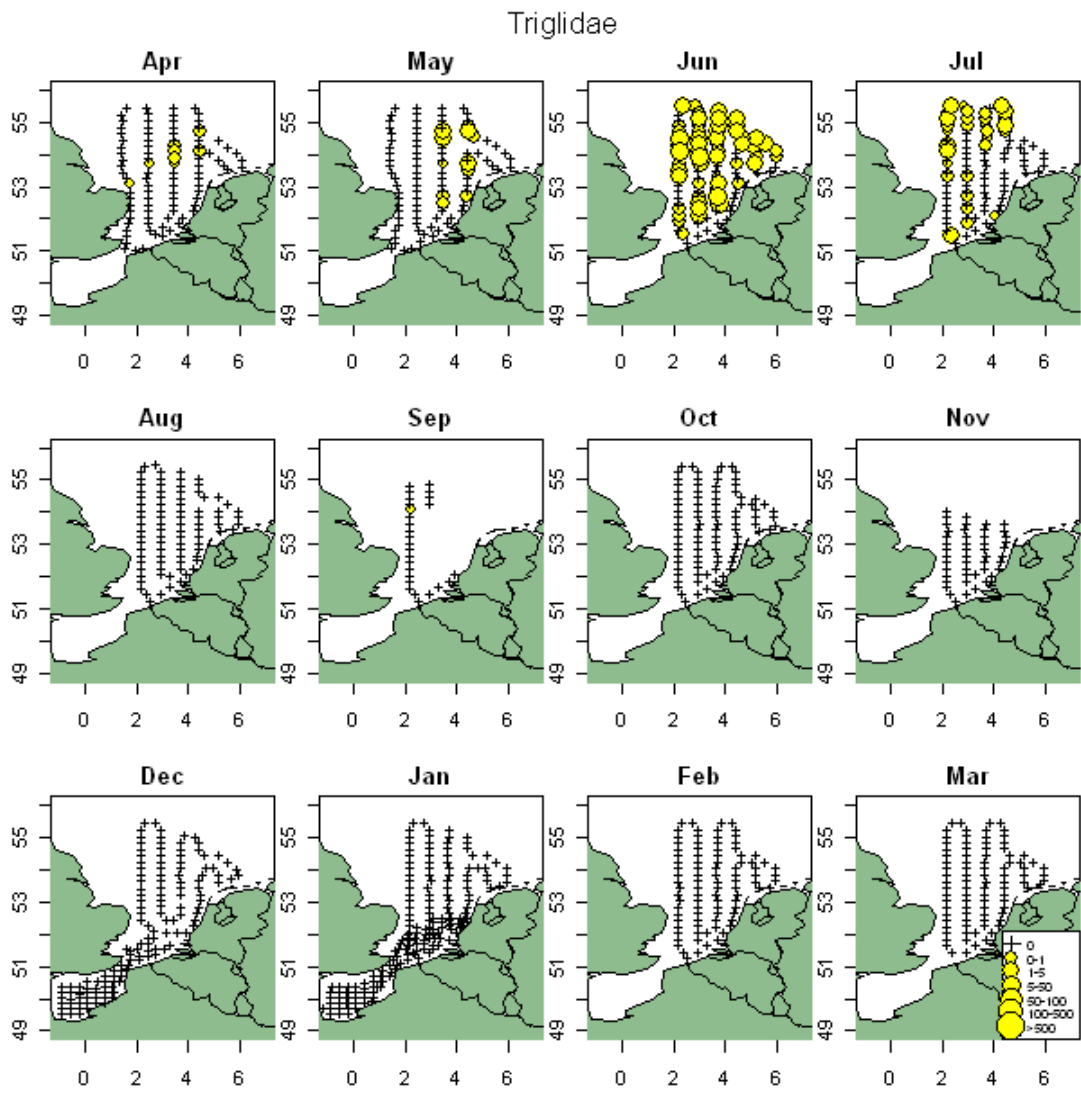


Figure 40c. Spatial and temporal distribution of stage 3 triglidae eggs.

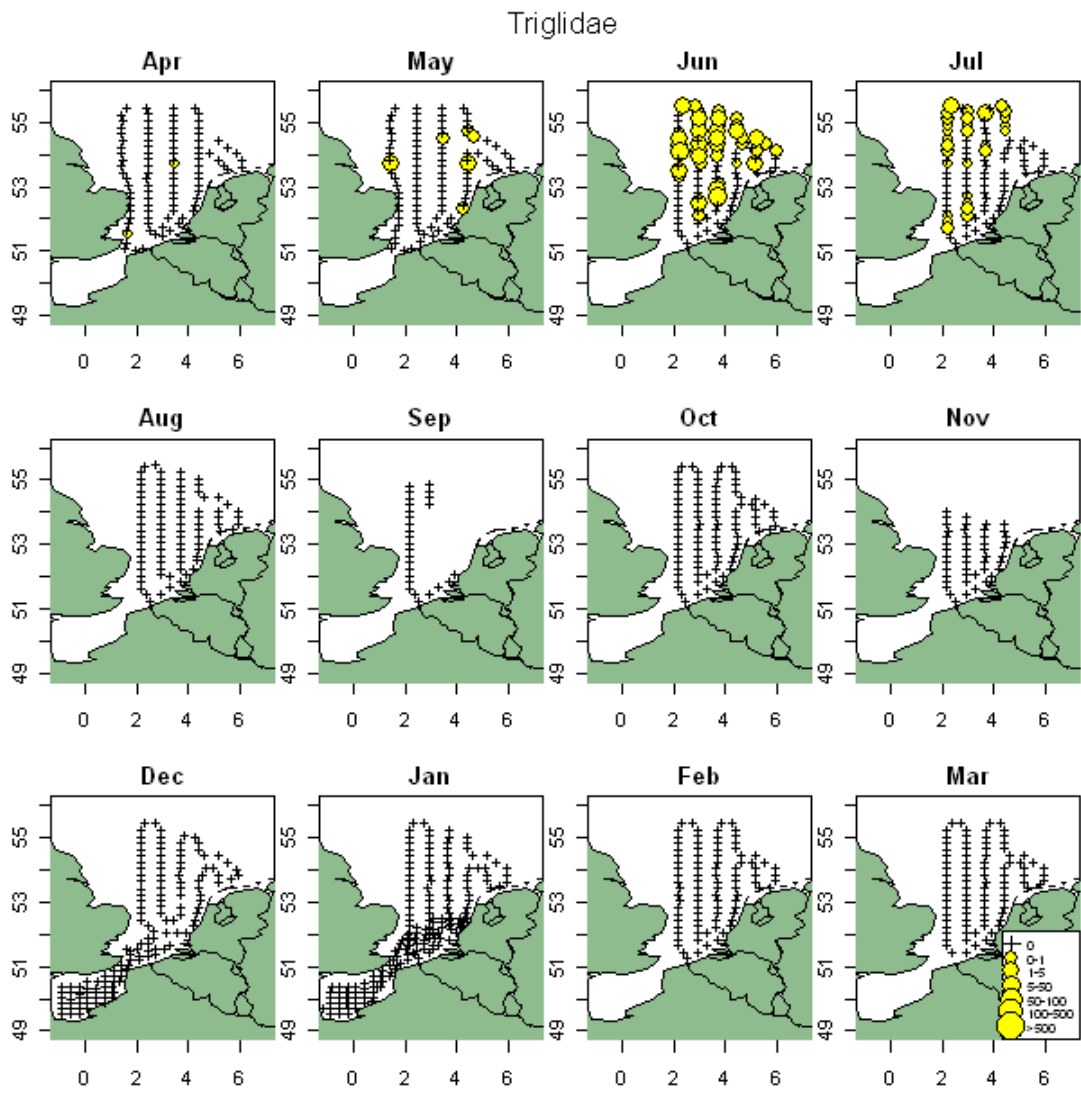


Figure 40d. Spatial and temporal distribution of stage 4 triglidae eggs.

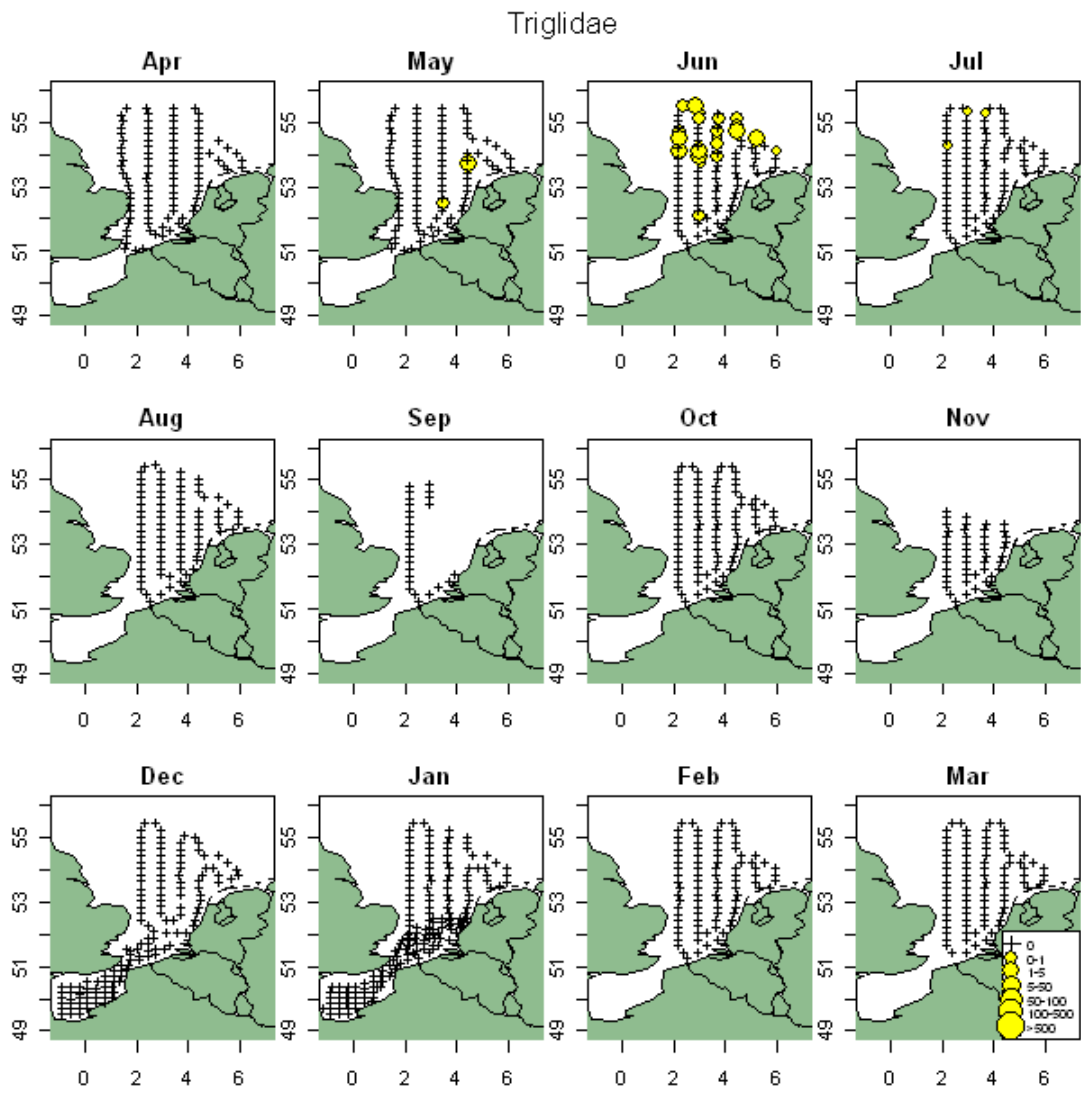


Figure 40e. Spatial and temporal distribution of stage 5 triglidae eggs.

**Grey gurnard *Eutrigla gurnardus***

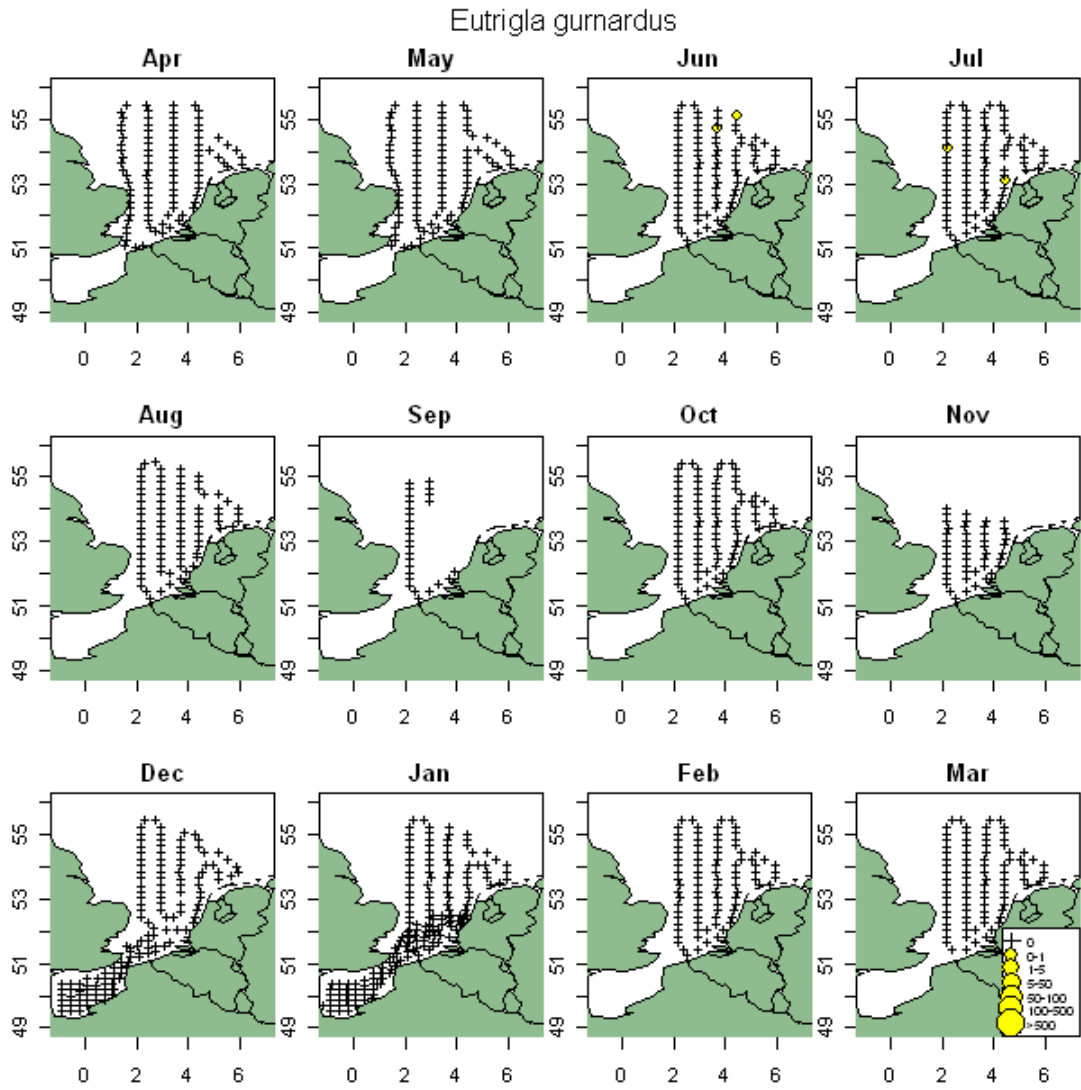


Figure 41a. Spatial and temporal distribution of yolk sac grey gurnard larvae.

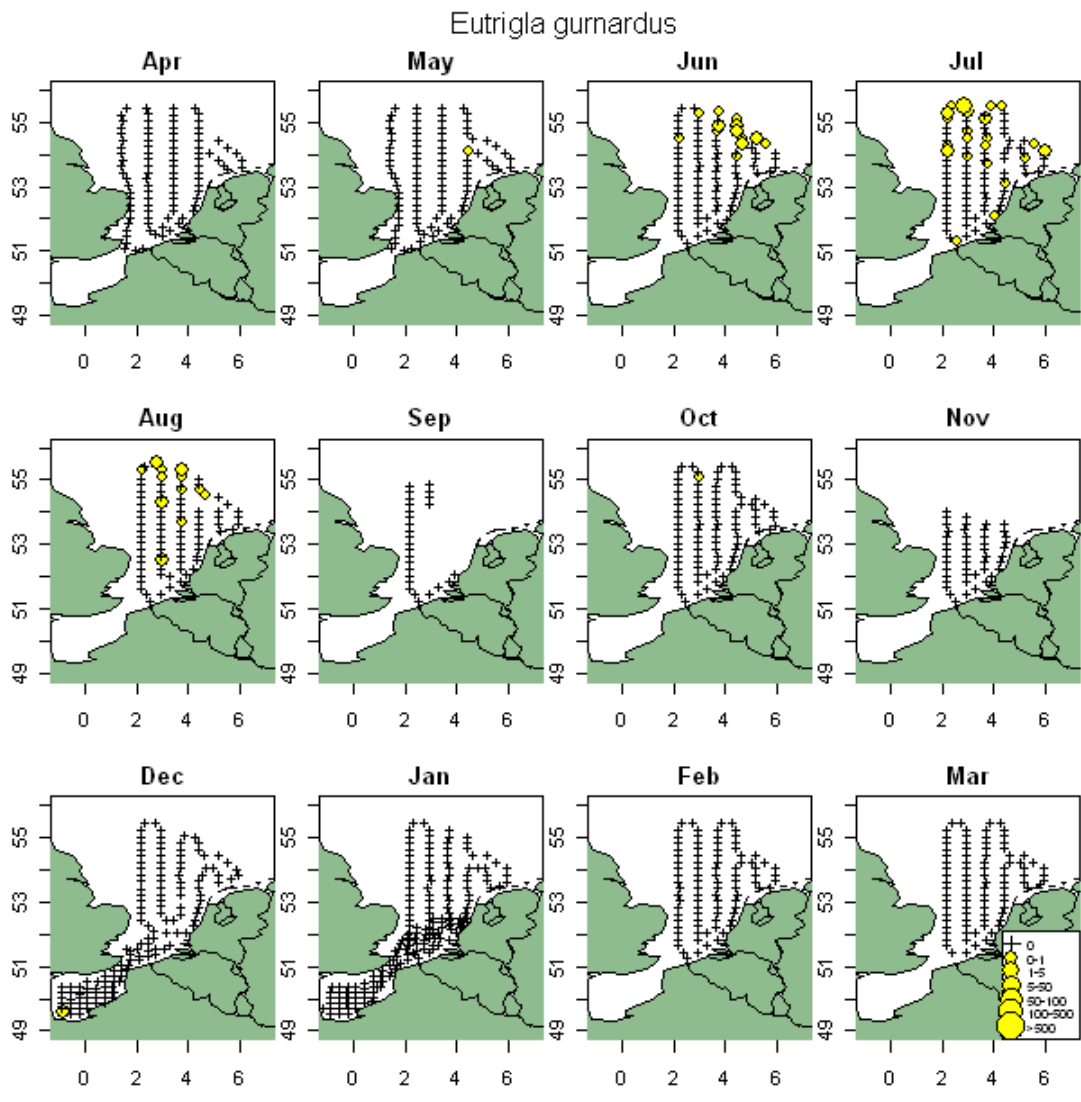


Figure 41b. Spatial and temporal distribution of non-yolk sac grey gurnard larvae.



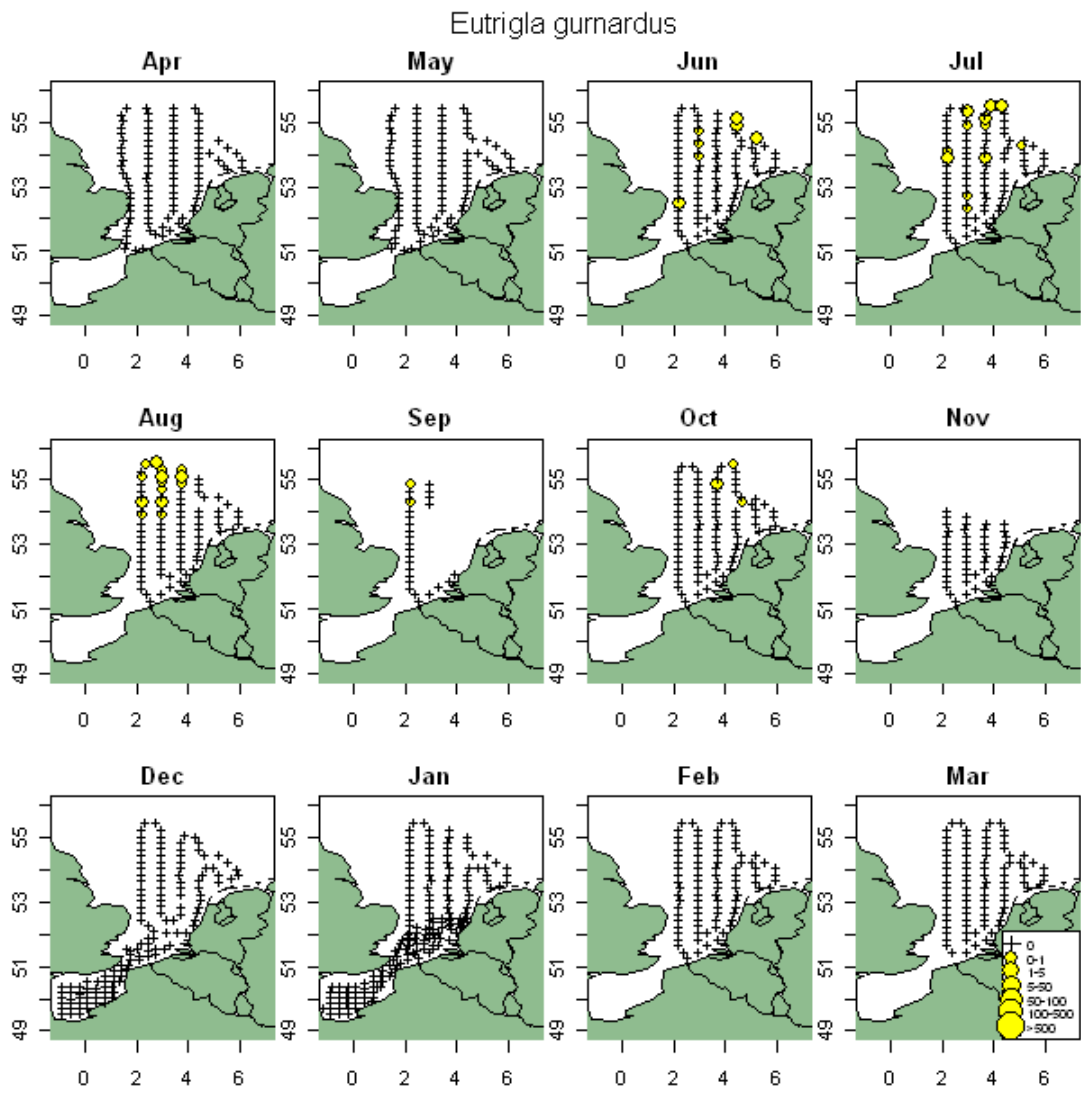


Figure 41c. Spatial and temporal distribution of bent notochord stage grey gurnard larvae.

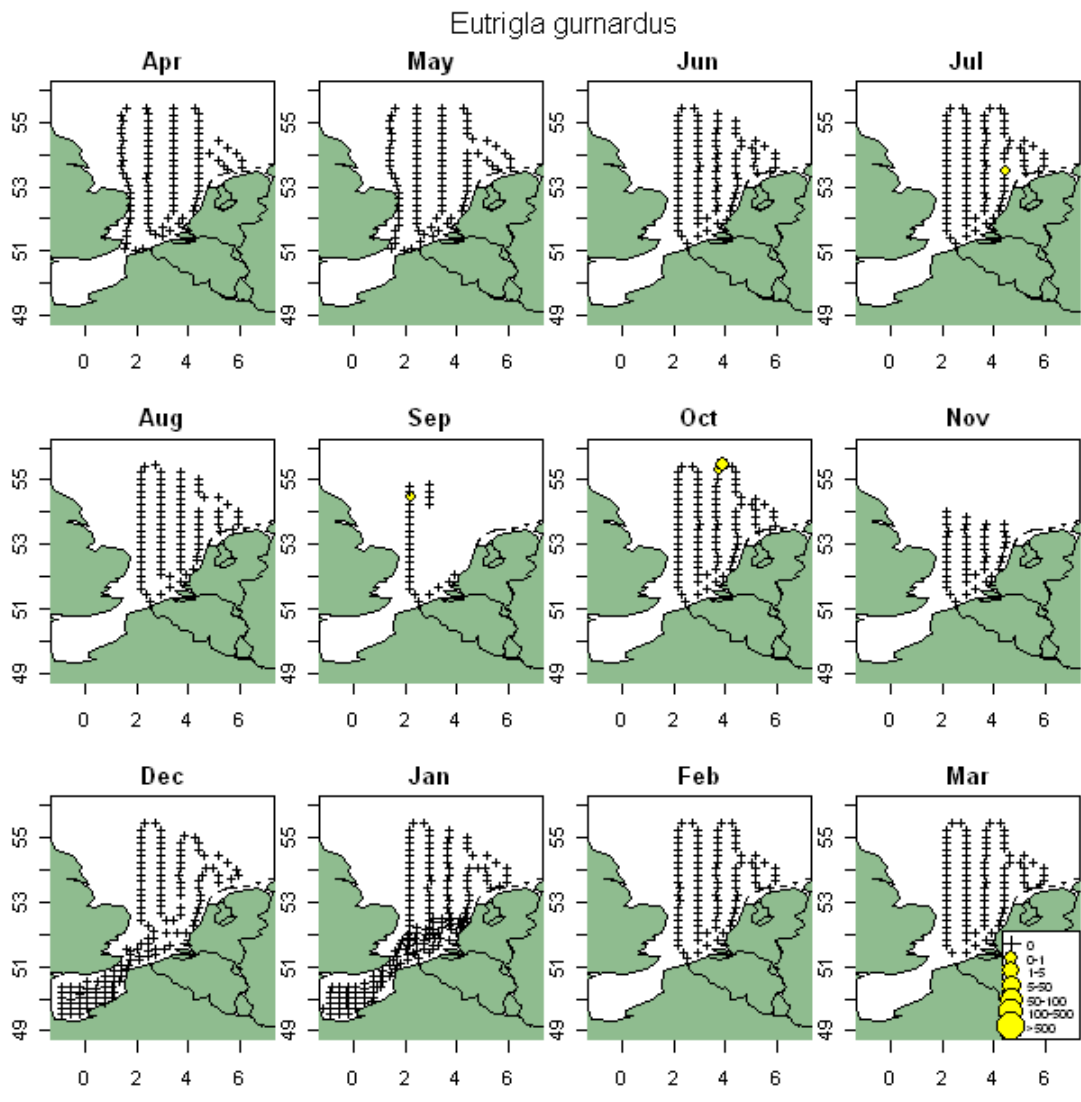


Figure 41d. Spatial and temporal distribution of metamorphosing grey gurnard larvae.

**Tub gurnard *Trigla lucerna***

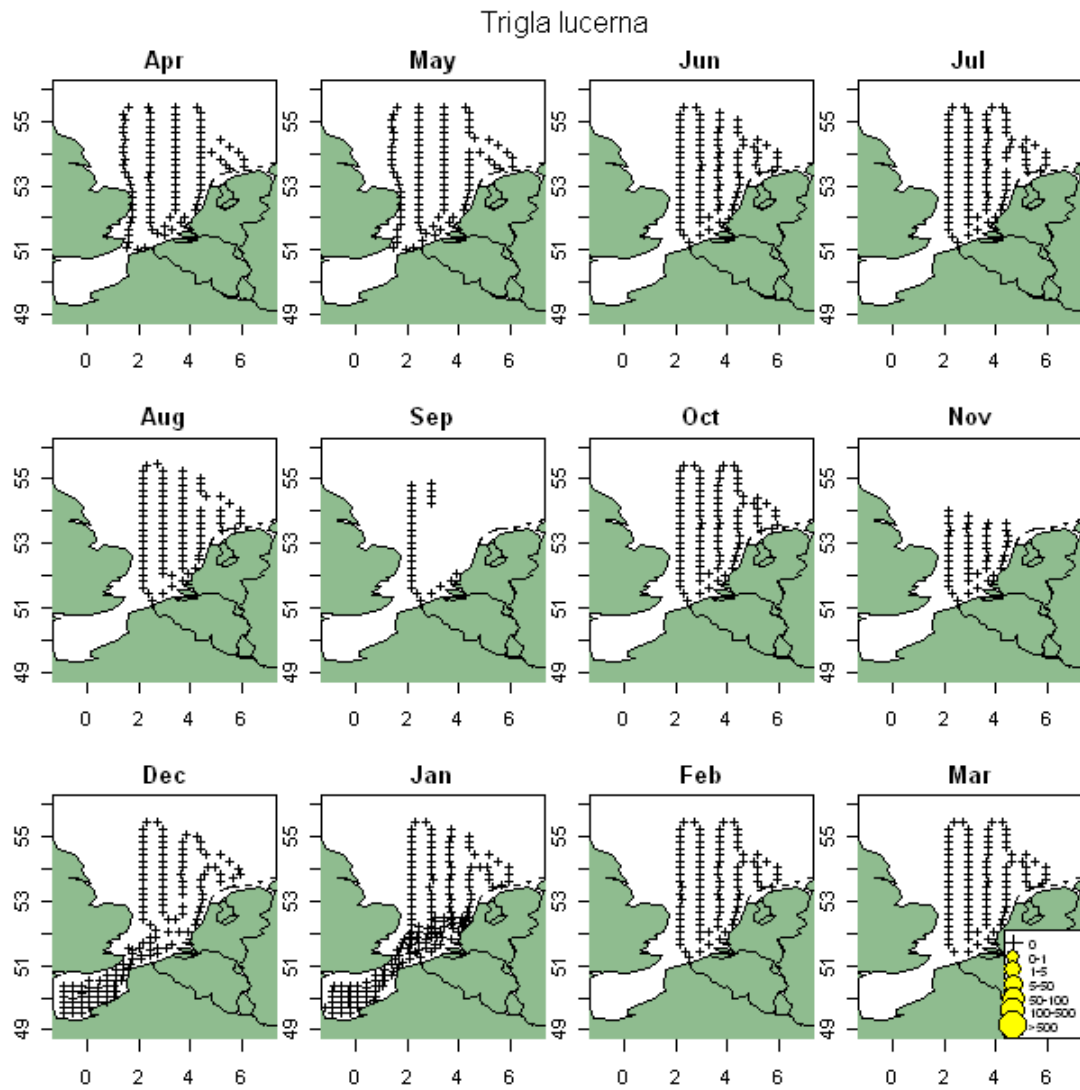


Figure 42a. Spatial and temporal distribution of yolk sac tub gurnard larvae.

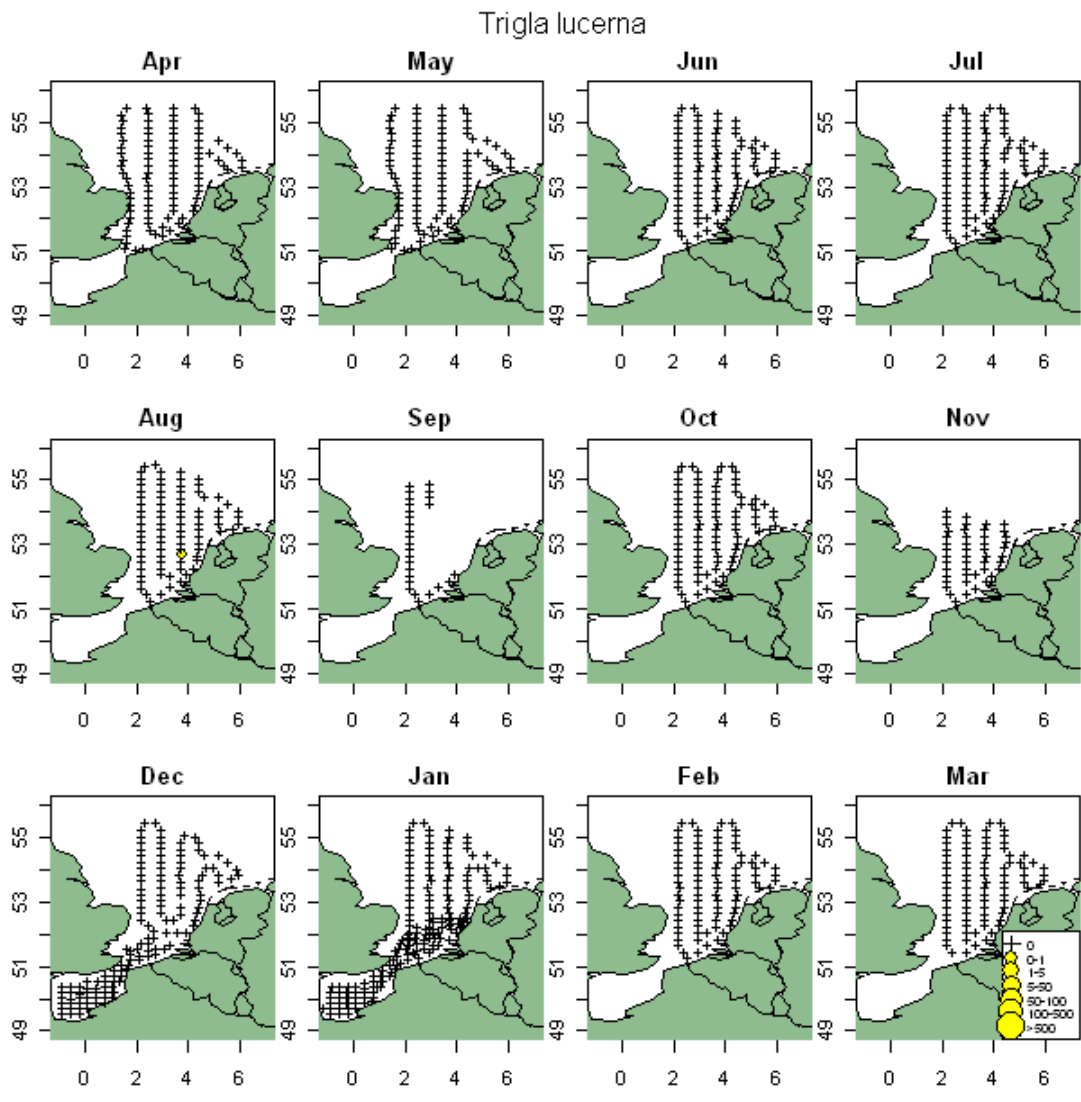


Figure 42b. Spatial and temporal distribution of non-yolk sac tub gurnard larvae.

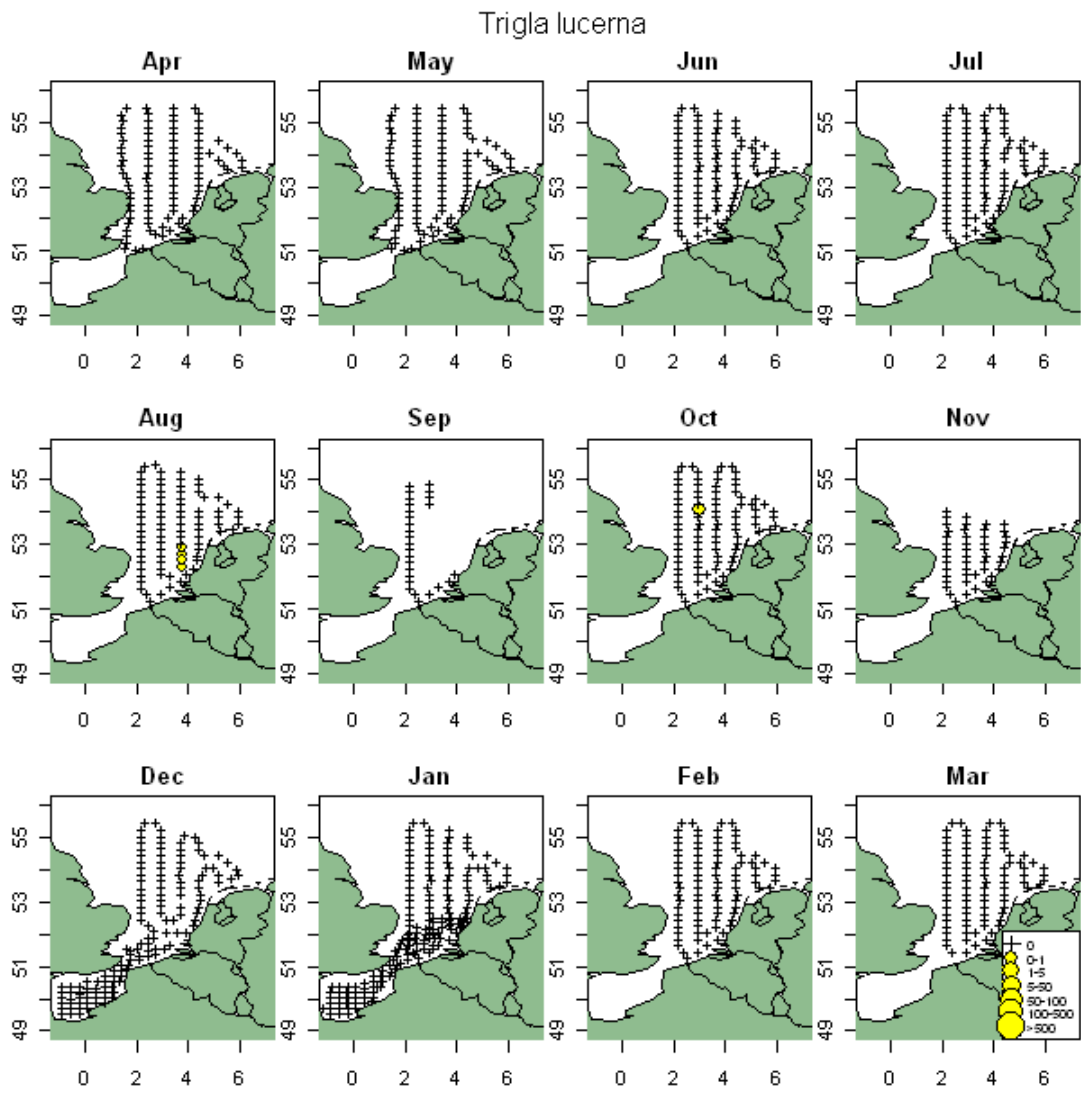


Figure 42c. Spatial and temporal distribution of bent notochord stage tub gurnard larvae.

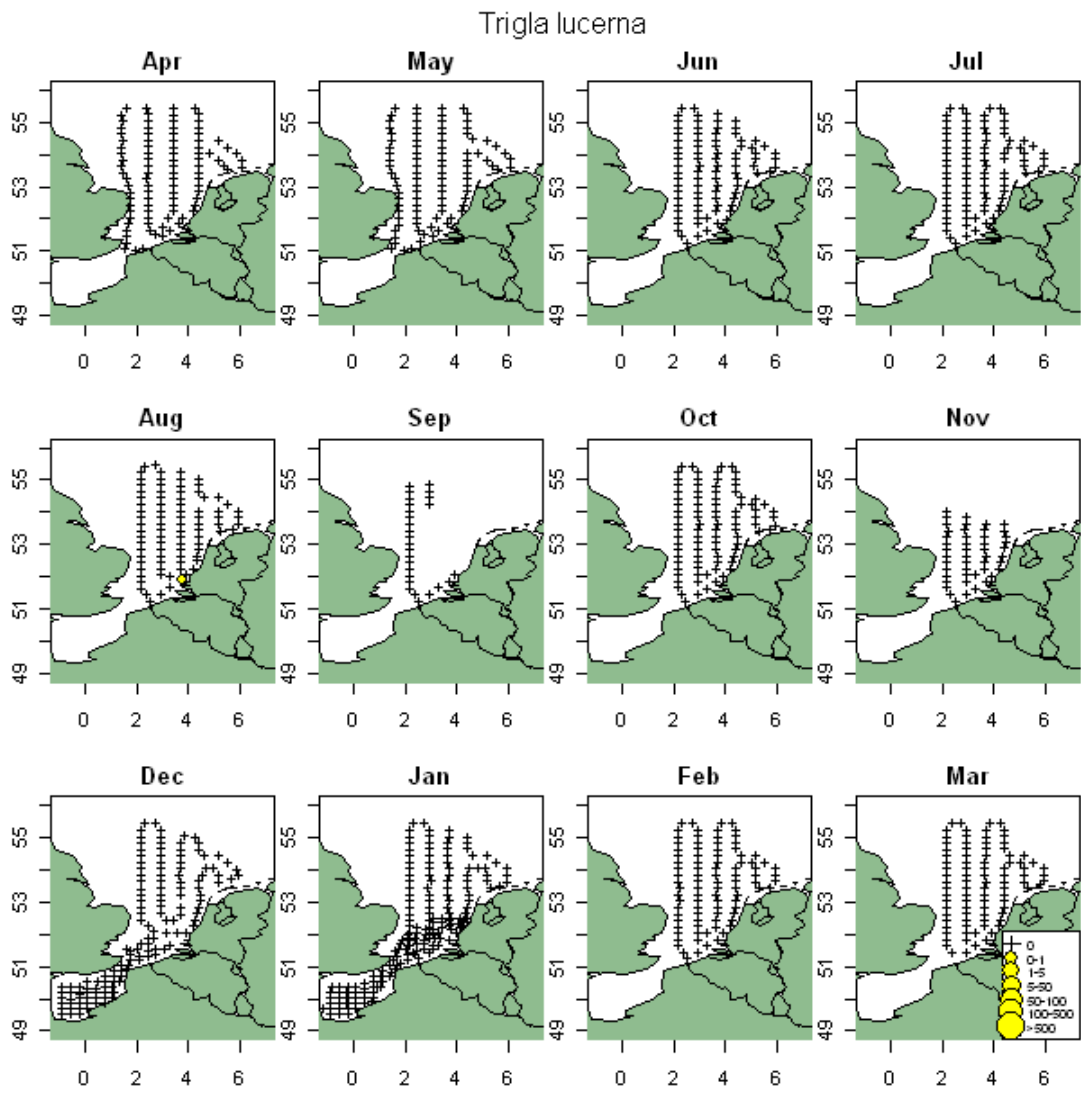


Figure 42d. Spatial and temporal distribution of metamorphosing tub gurnard larvae.

**Bull-rout *Myoxocephalus scorpius***

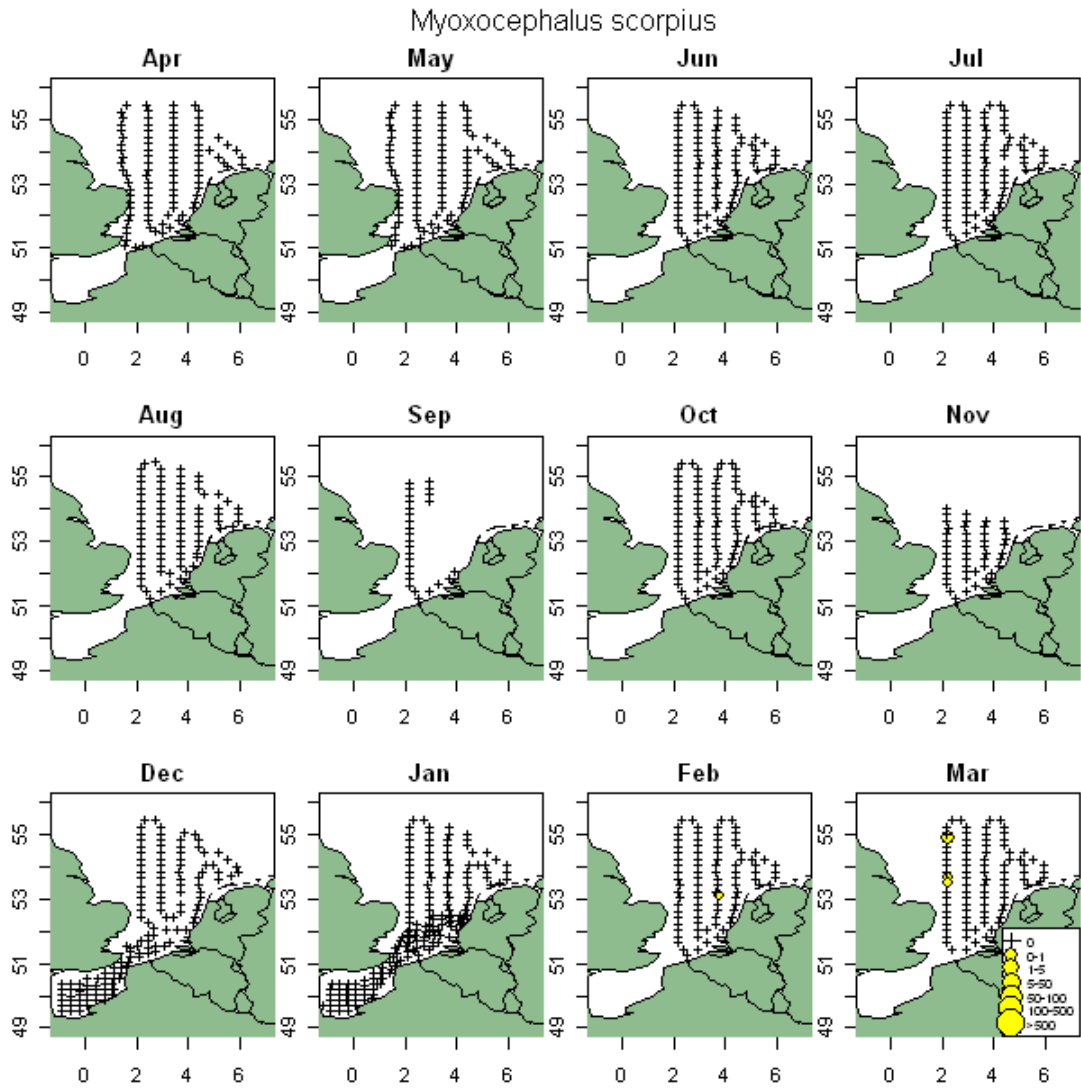


Figure 43a. Spatial and temporal distribution of yolk sac bull-rout larvae.

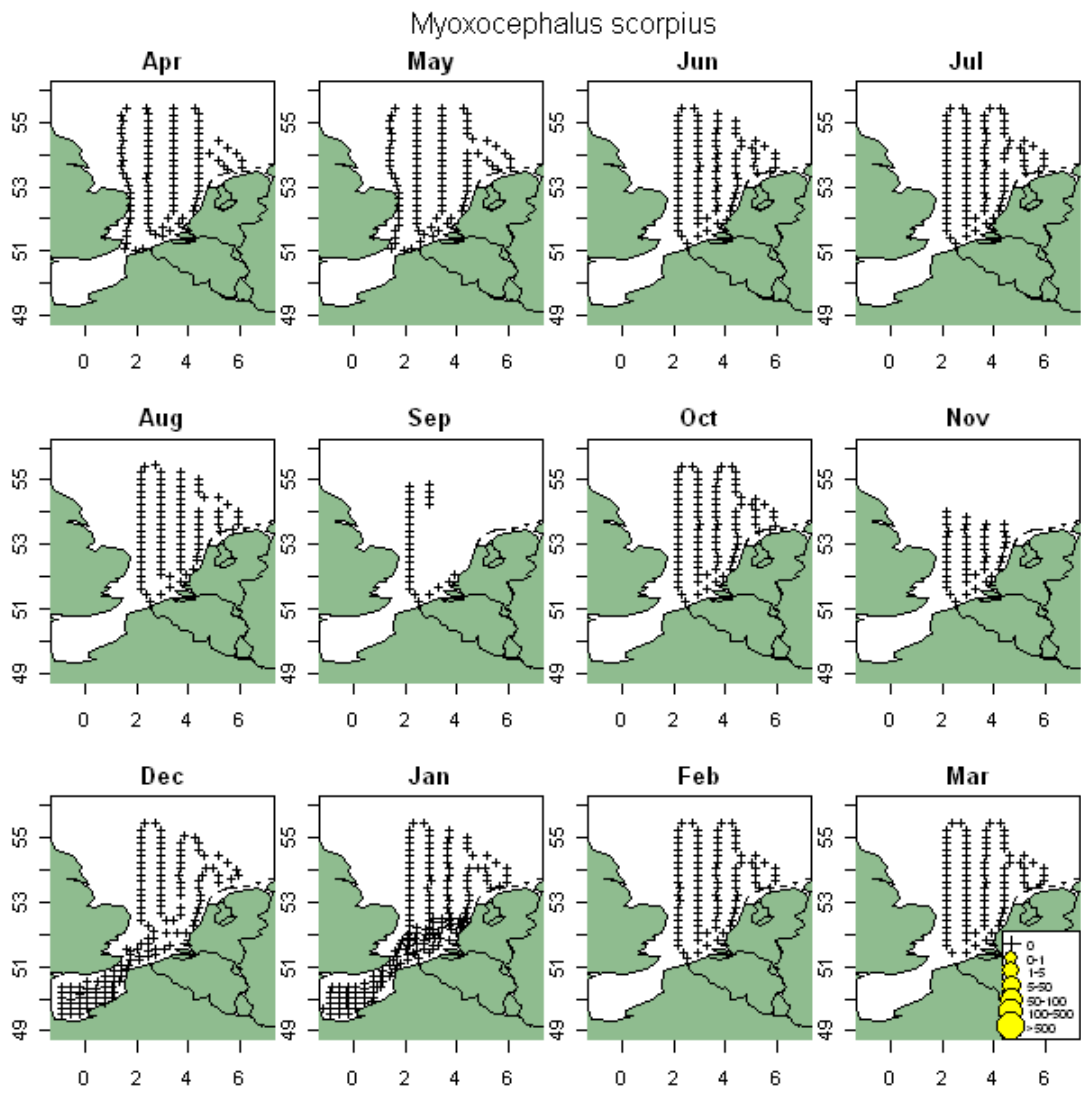


Figure 43b. Spatial and temporal distribution of non-yolk sac bull-rout larvae.



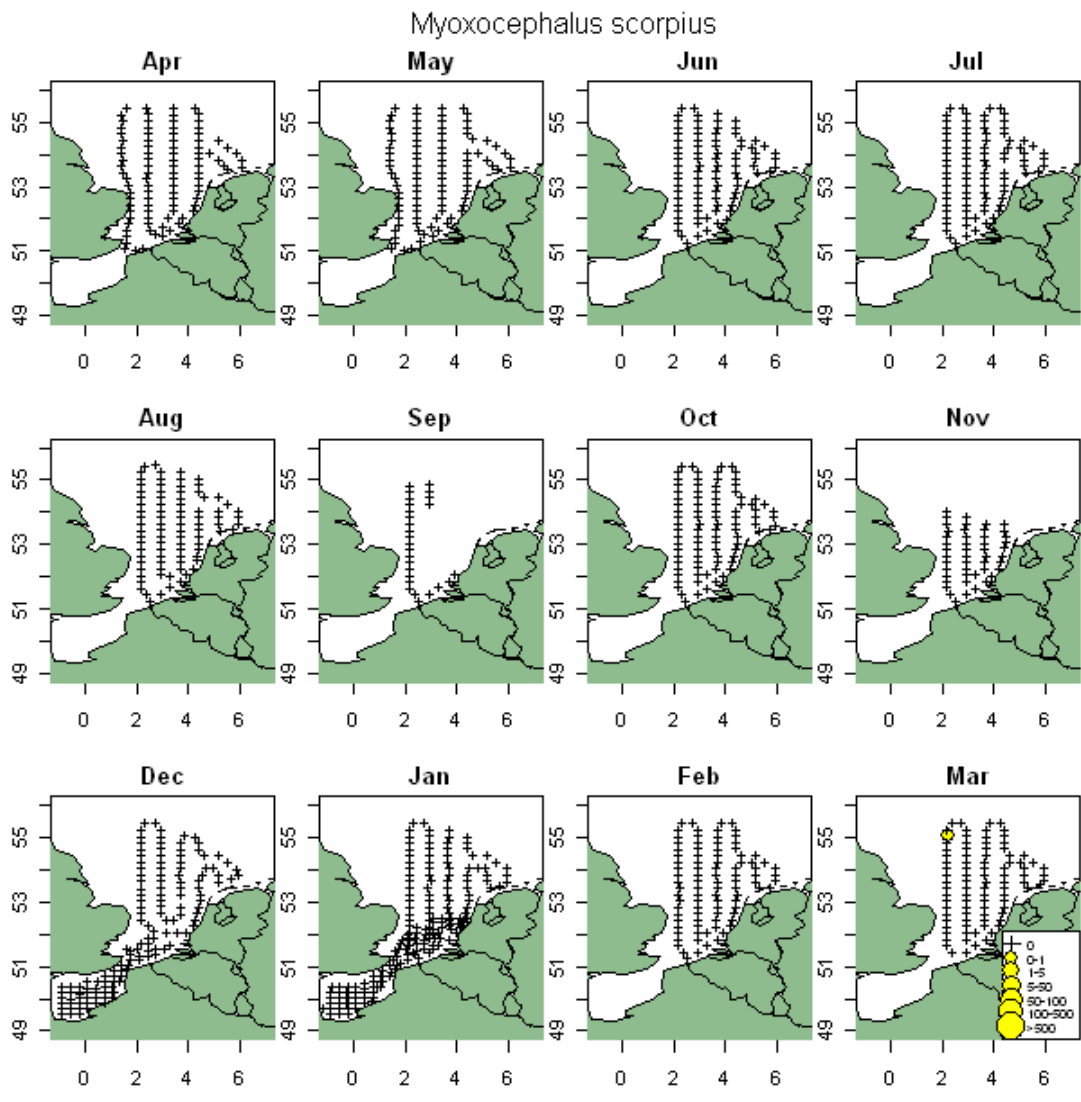


Figure 43c. Spatial and temporal distribution of bent notochord stage bull-root larvae.

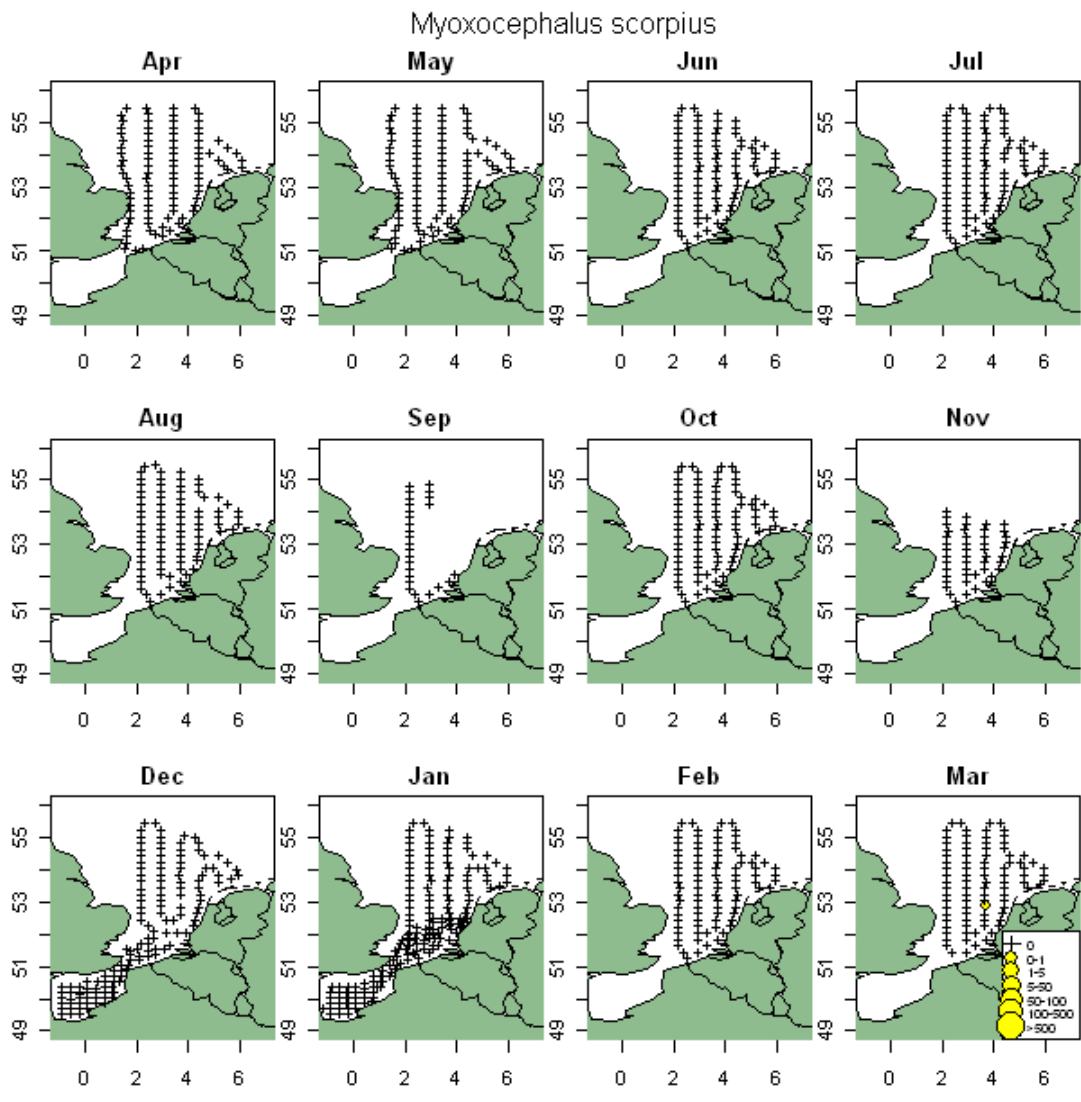


Figure 43d. Spatial and temporal distribution of metamorphosing bull-rout larvae.

**Sea scorpion *Taurulus bubalis***

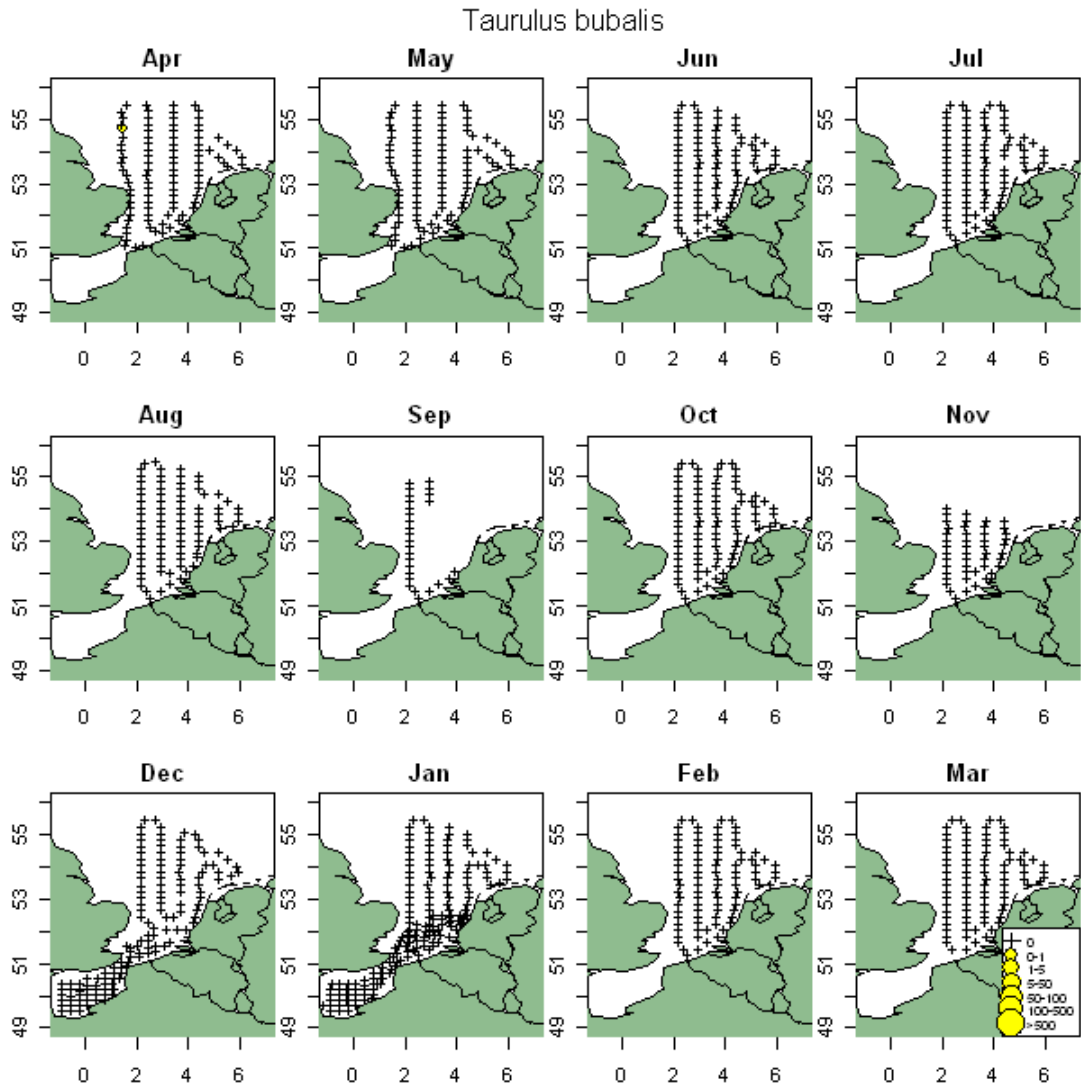


Figure 44a. Spatial and temporal distribution of yolk sac sea scorpion larvae.

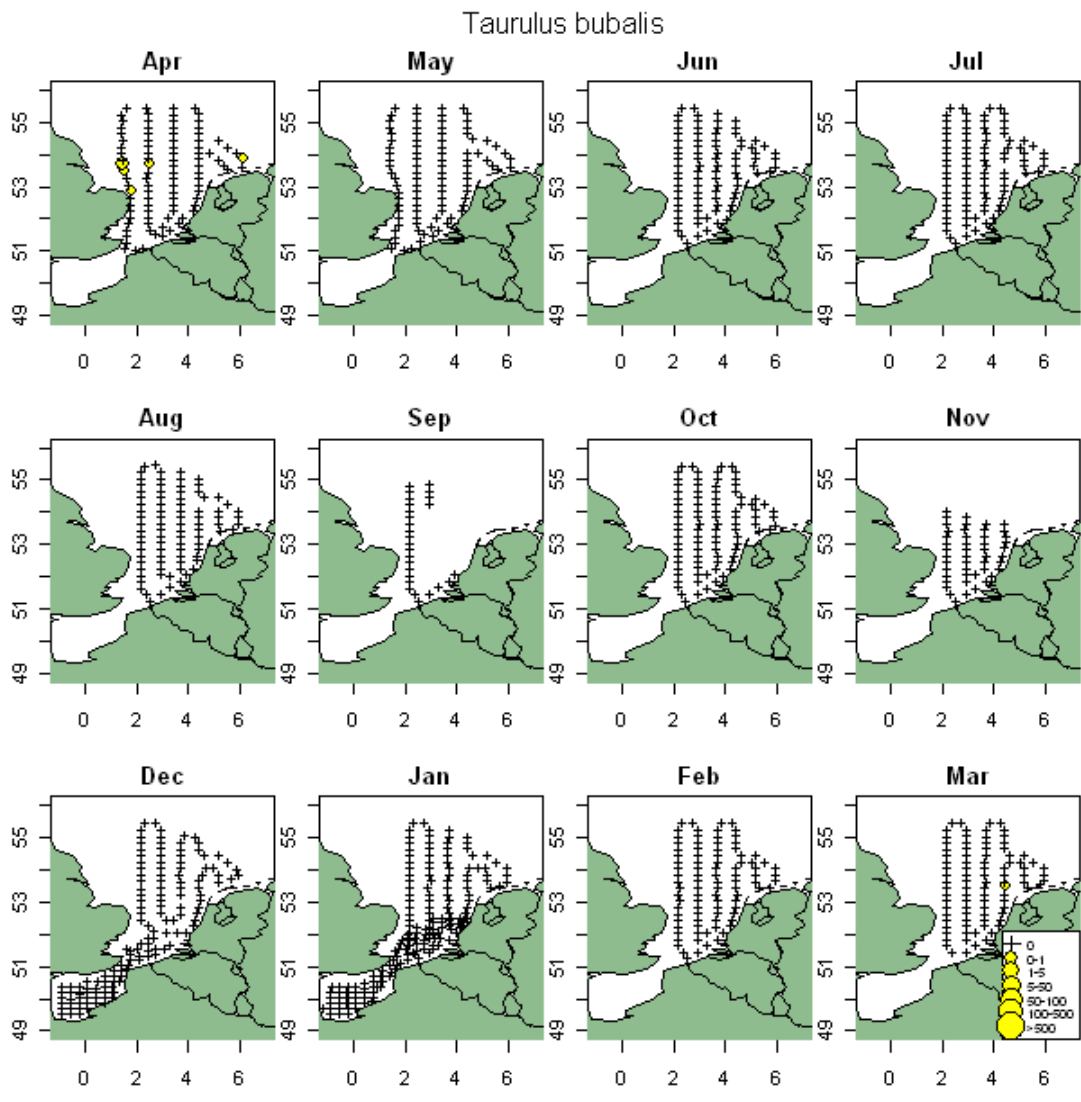


Figure 44b. Spatial and temporal distribution of non-yolk sac sea scorpion larvae.

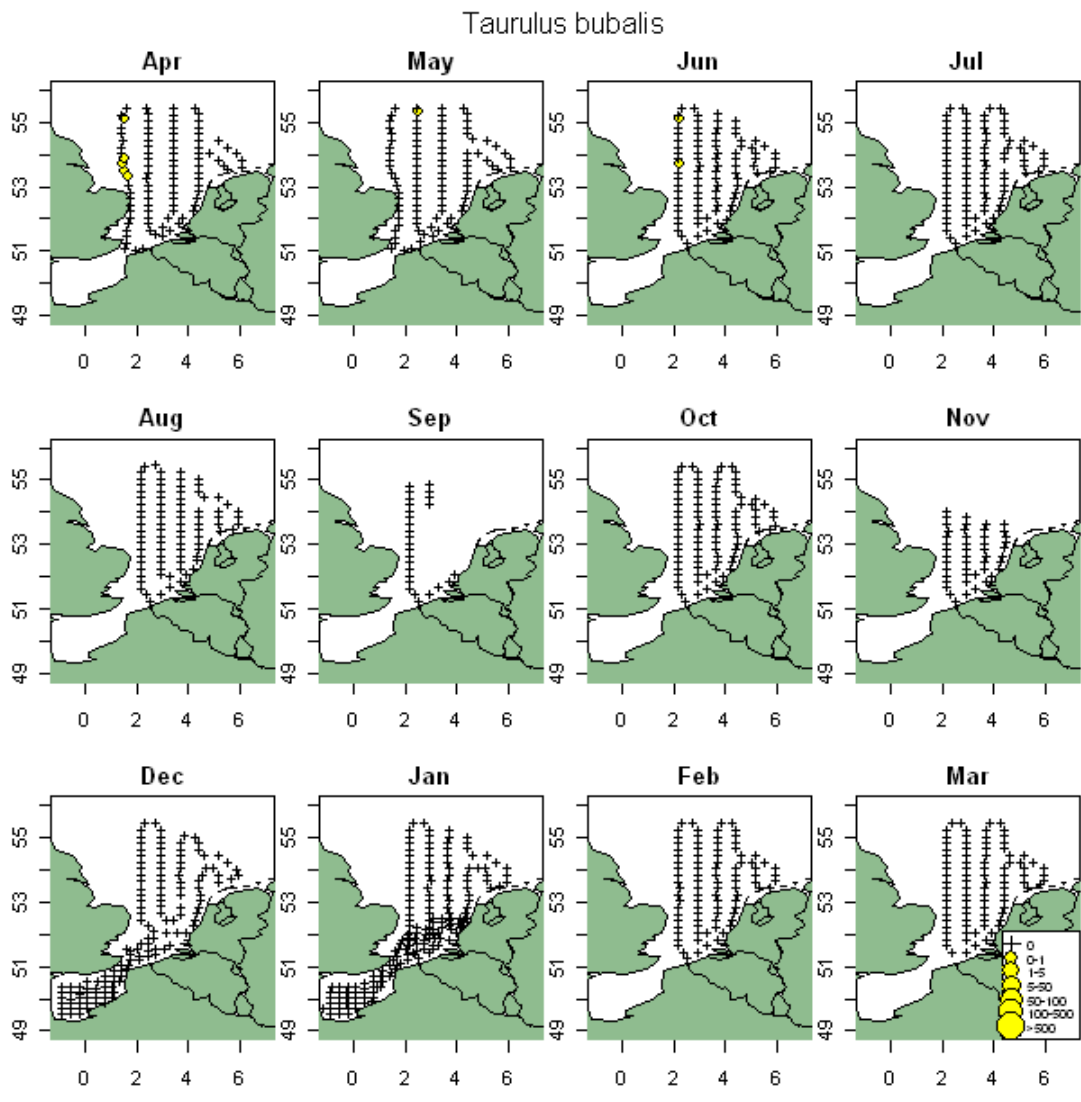


Figure 44c. Spatial and temporal distribution of bent notochord stage sea scorpion larvae.

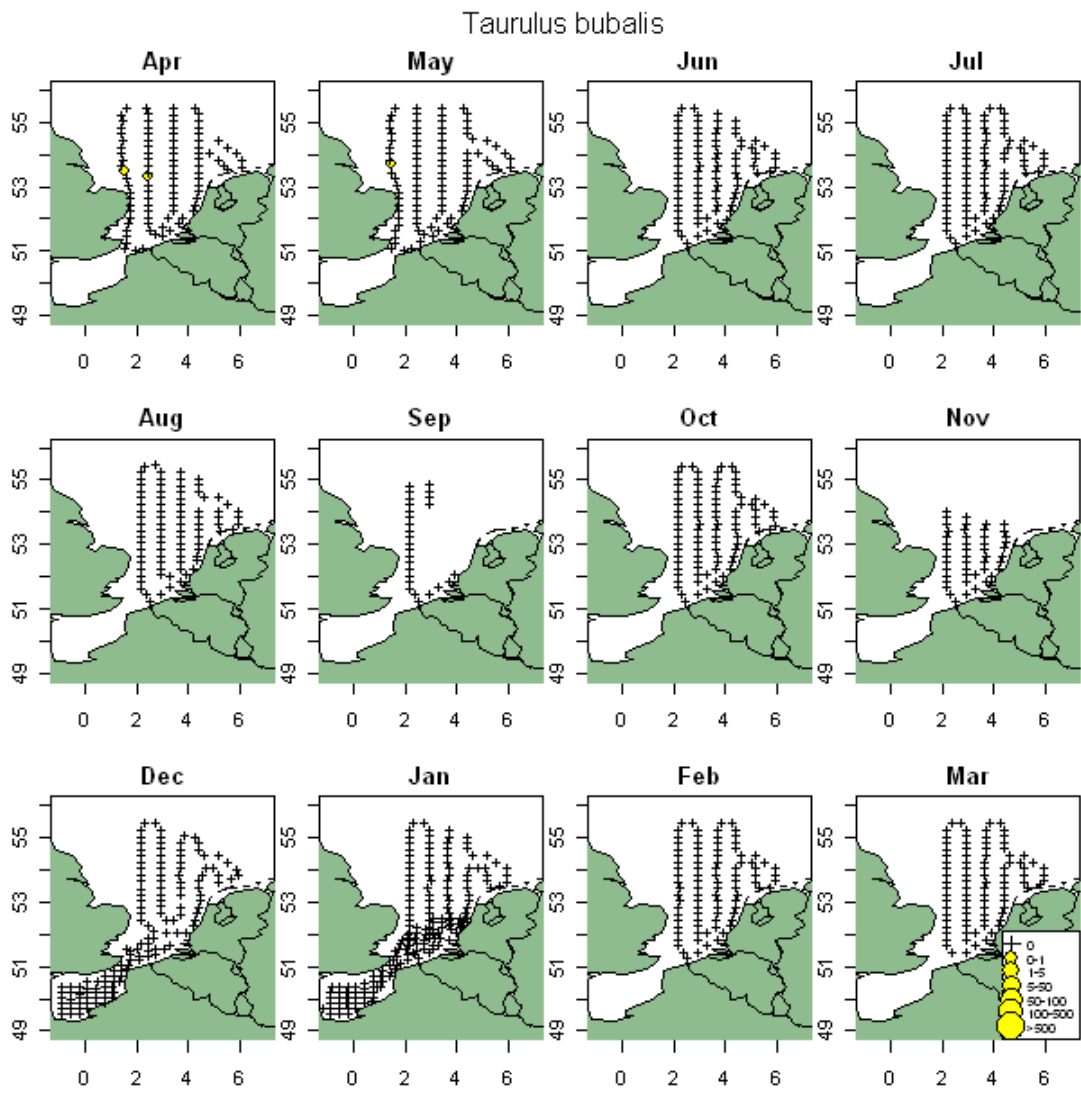


Figure 44d. Spatial and temporal distribution of metamorphosing sea scorpion larvae.

**Sea snail *Liparis liparis***

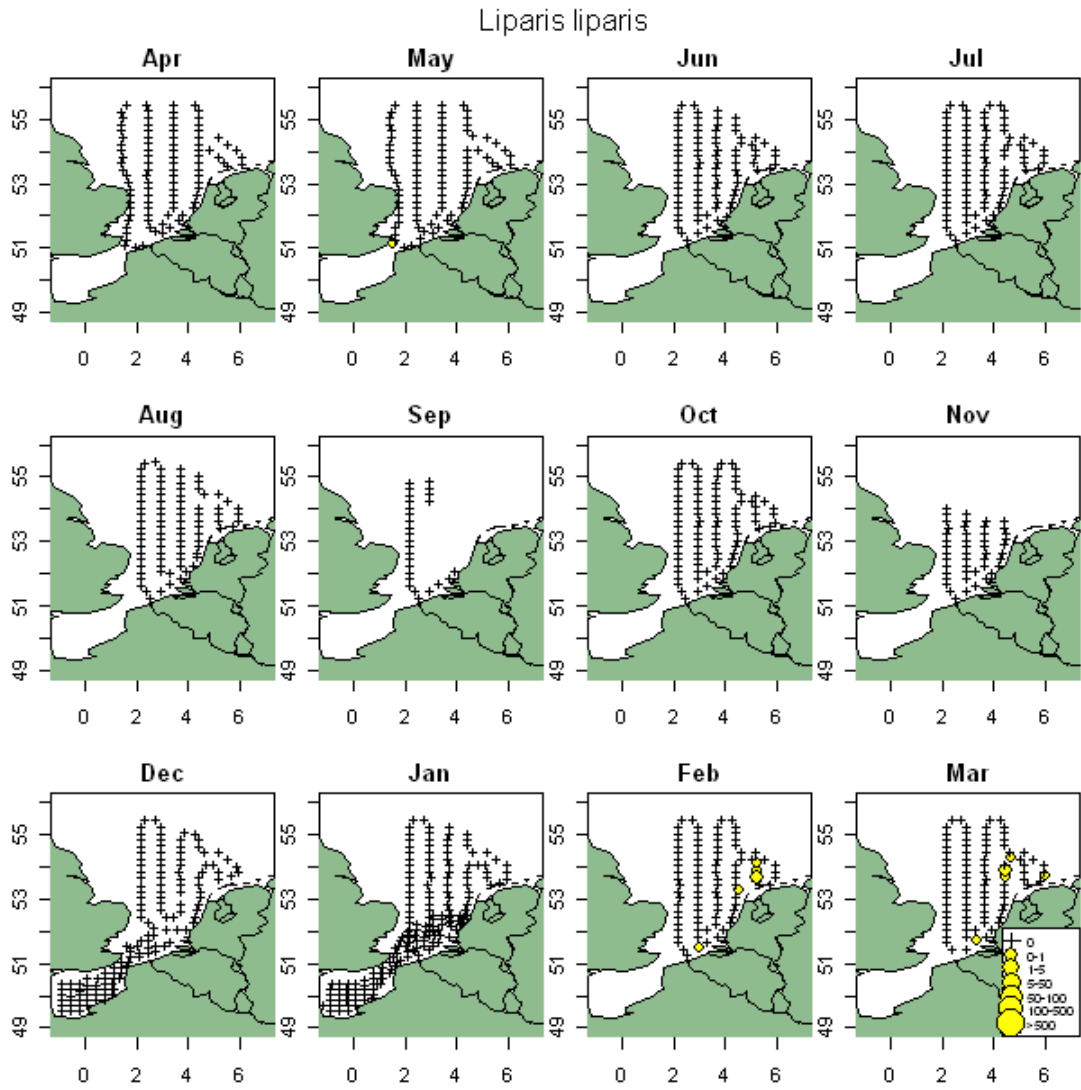


Figure 45a. Spatial and temporal distribution of yolk sac sea snail larvae.

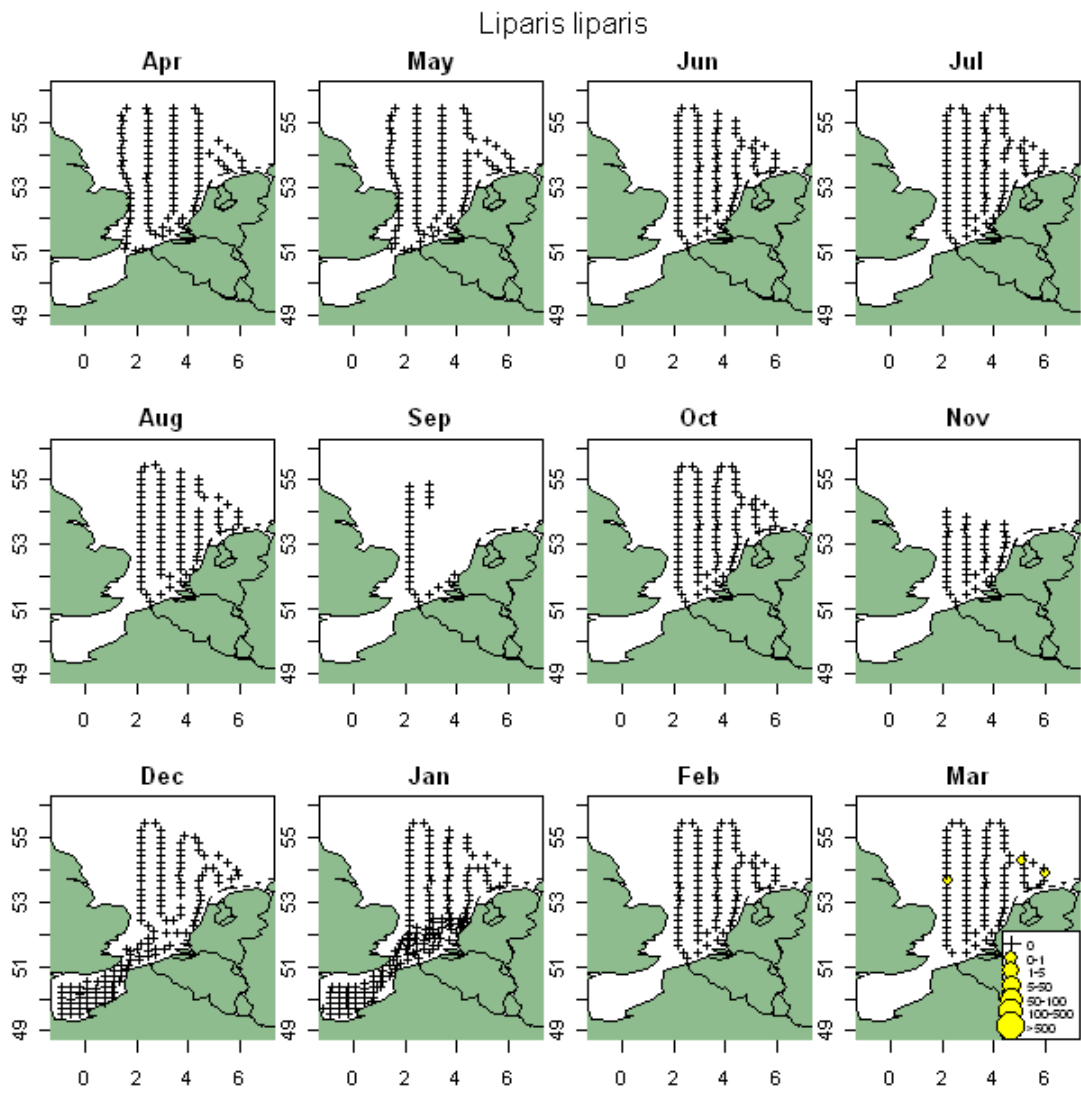


Figure 45b. Spatial and temporal distribution of non-yolk sac sea snail larvae.



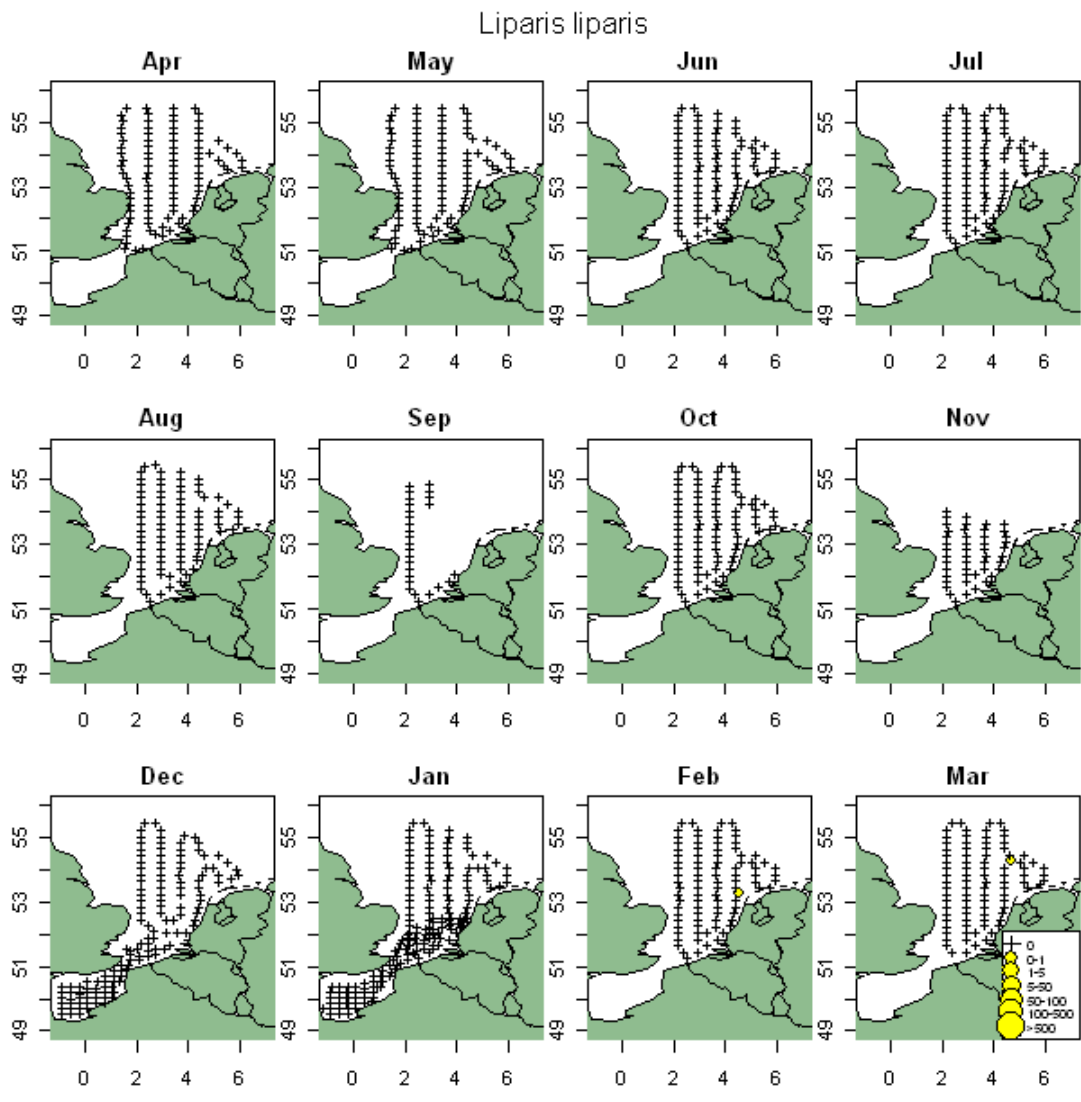


Figure 45c. Spatial and temporal distribution of bent notochord stage sea snail larvae.

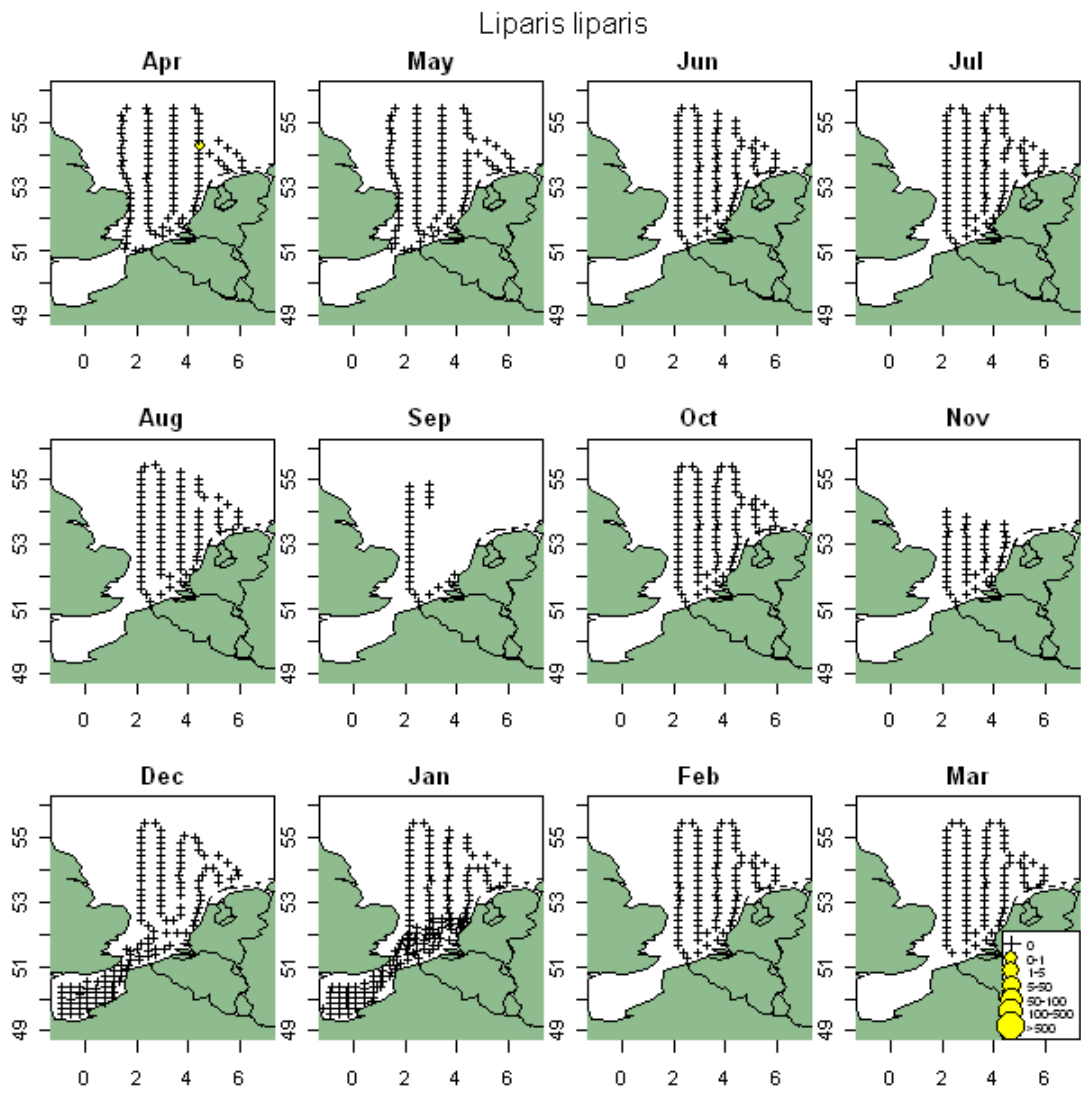


Figure 45d. Spatial and temporal distribution of metamorphosing sea snail larvae.

**Montagu's sea snail *Liparis montagui***

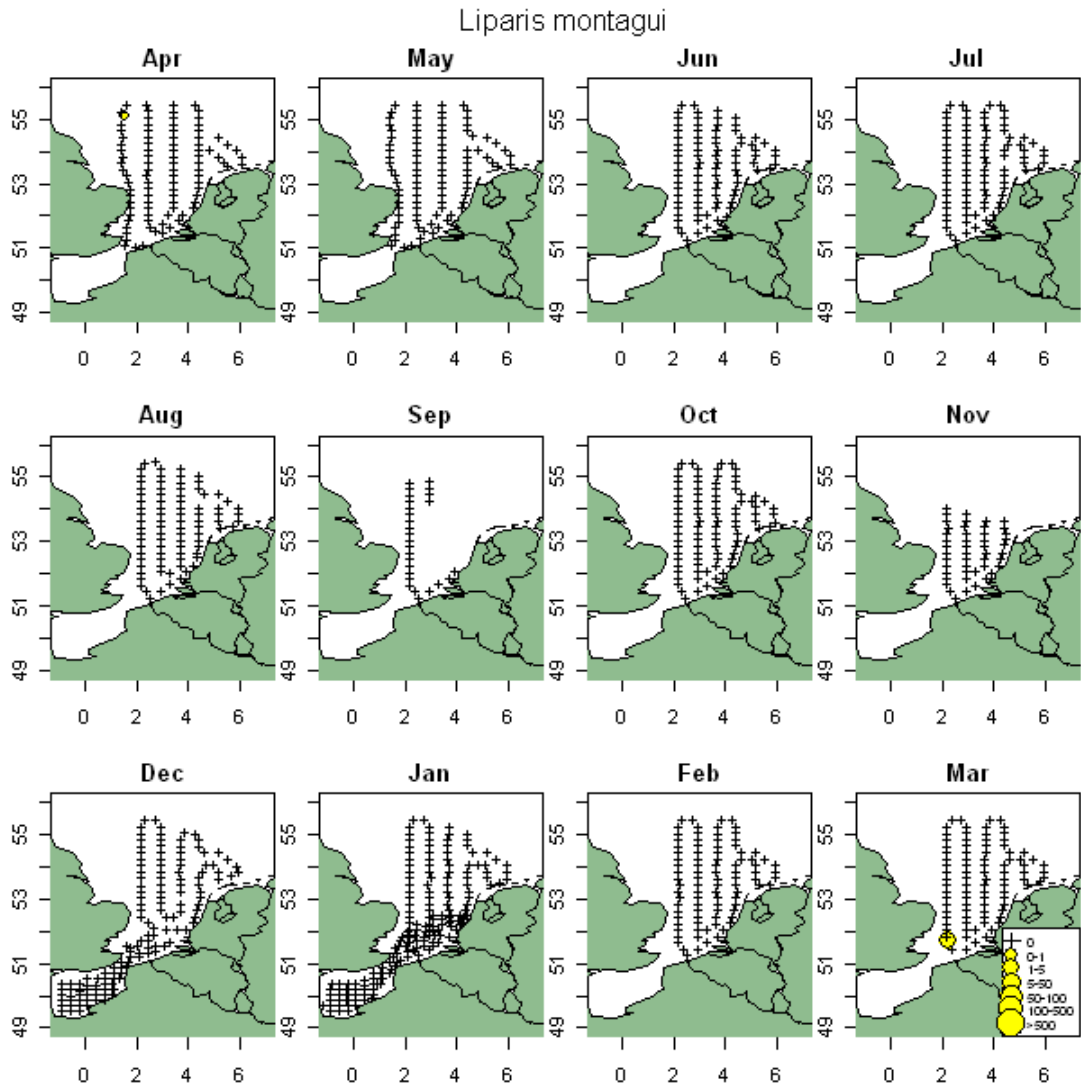


Figure 46a. Spatial and temporal distribution of yolk sac Montagu's sea snail larvae.

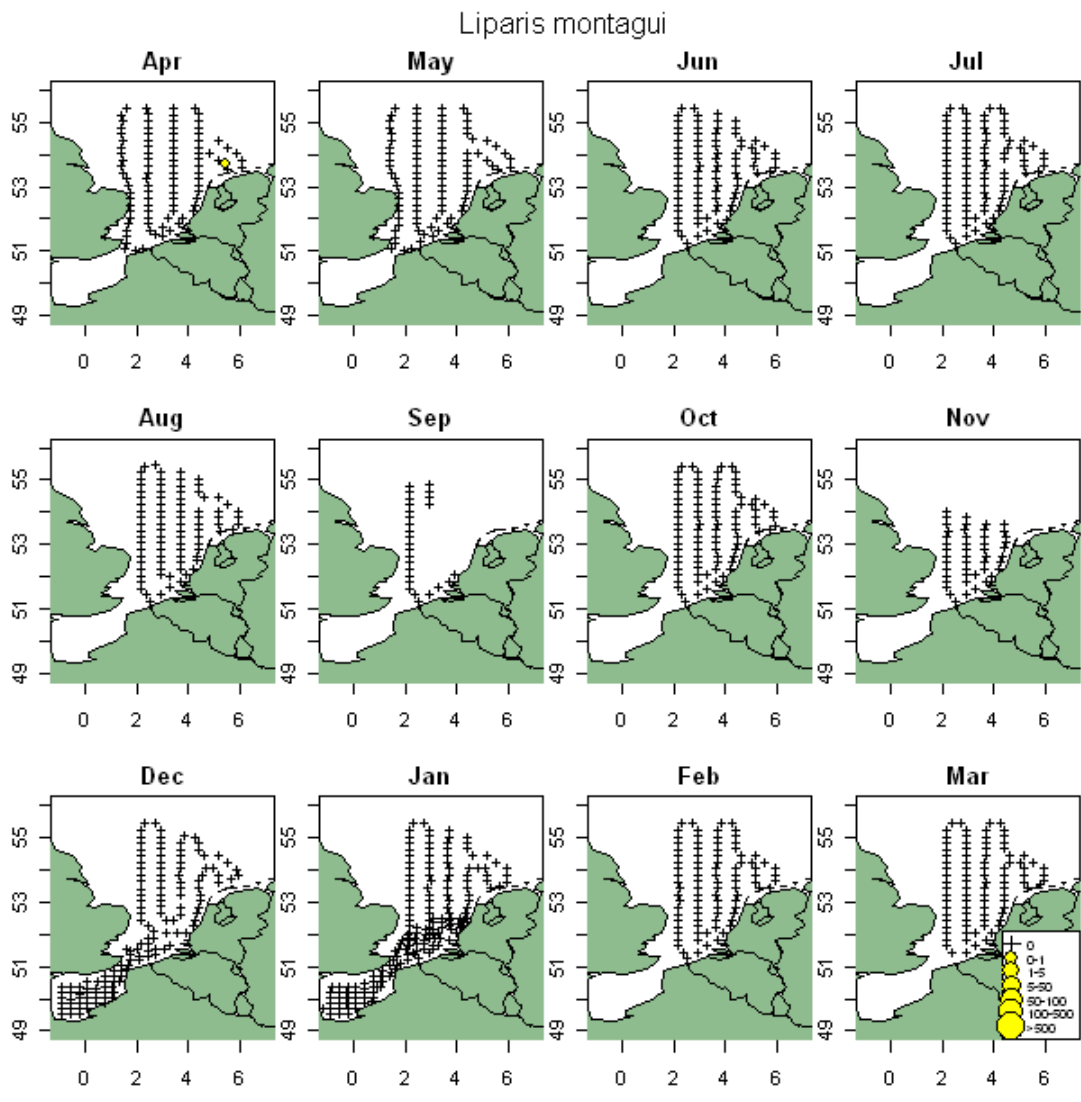


Figure 46b. Spatial and temporal distribution of non-yolk sac Montagu's seasnail larvae.

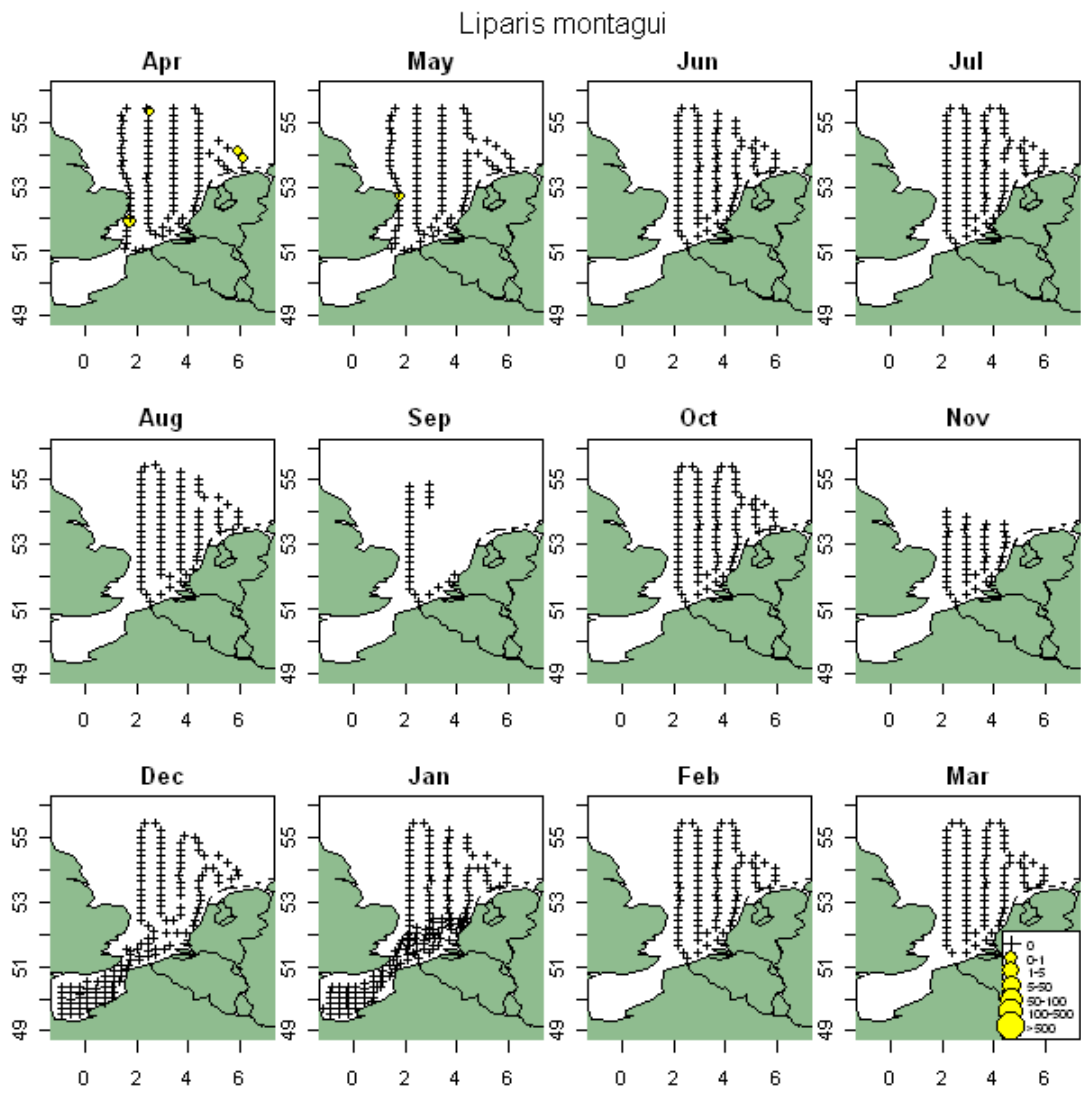


Figure 46c. Spatial and temporal distribution of bent notochord stage Montagu's sea snail larvae.

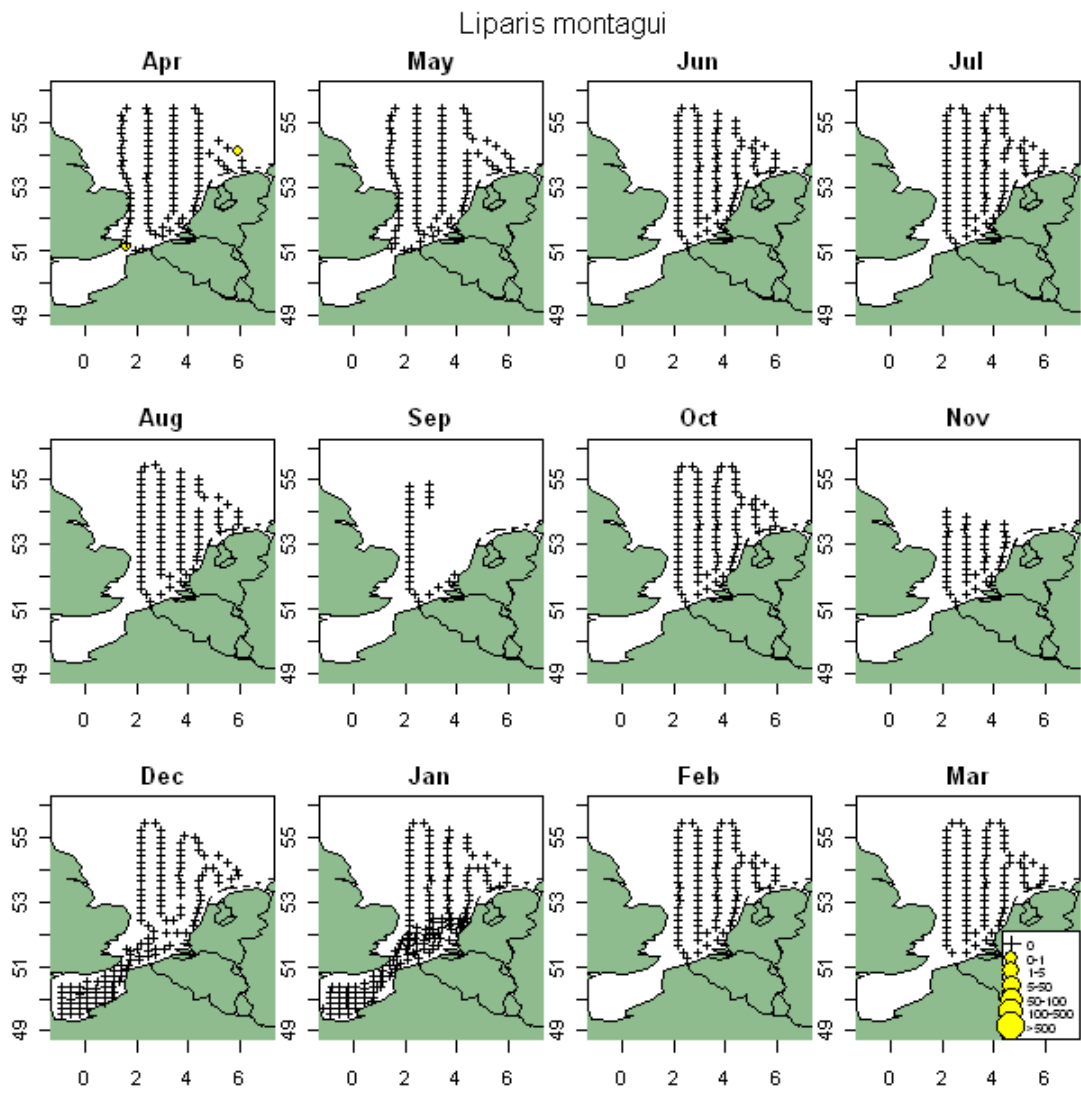


Figure 46d. Spatial and temporal distribution of metamorphosing Montagu's sea snail larvae.

**Turbot *Scophthalmus maximus***

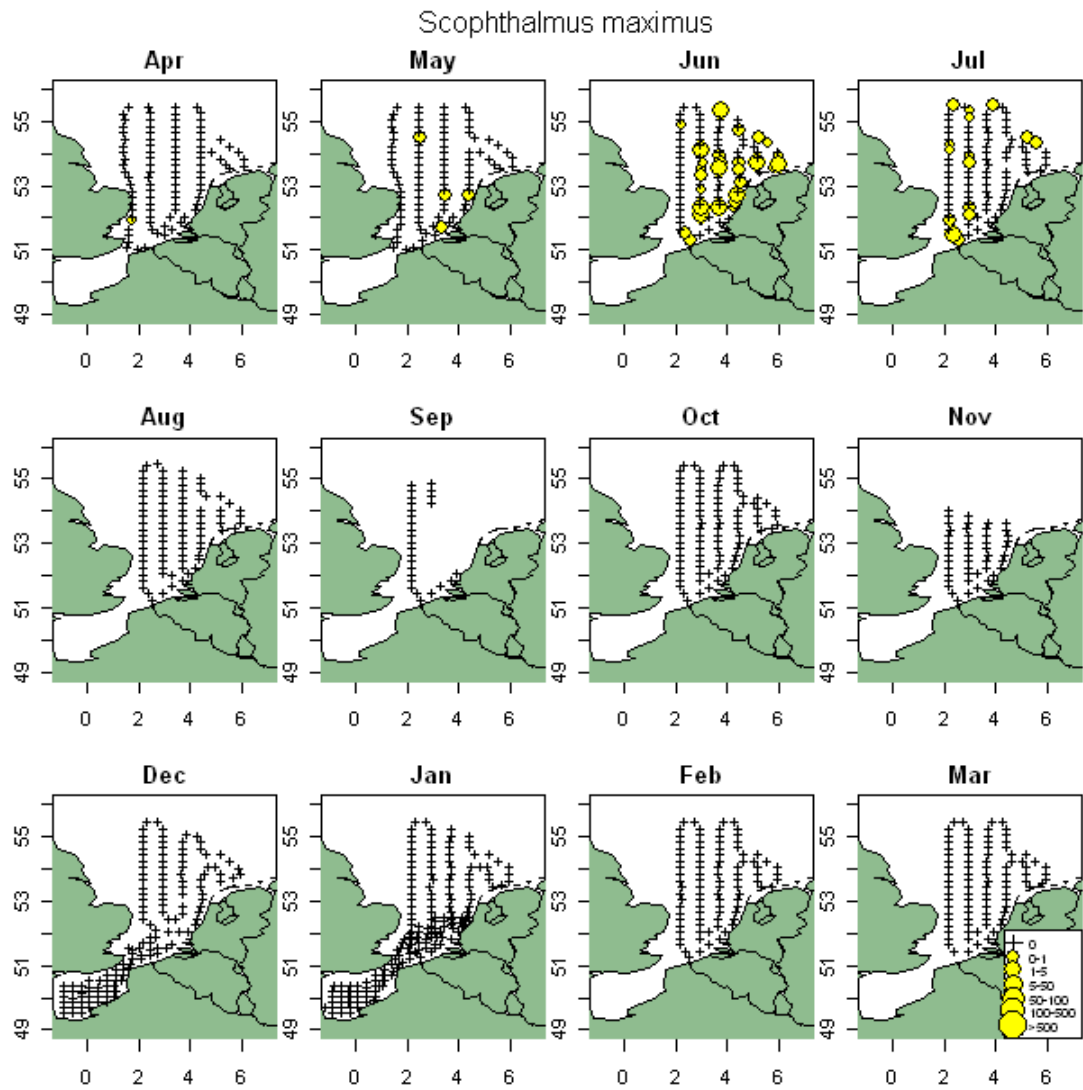


Figure 47a. Spatial and temporal distribution of stage 1 turbot eggs.

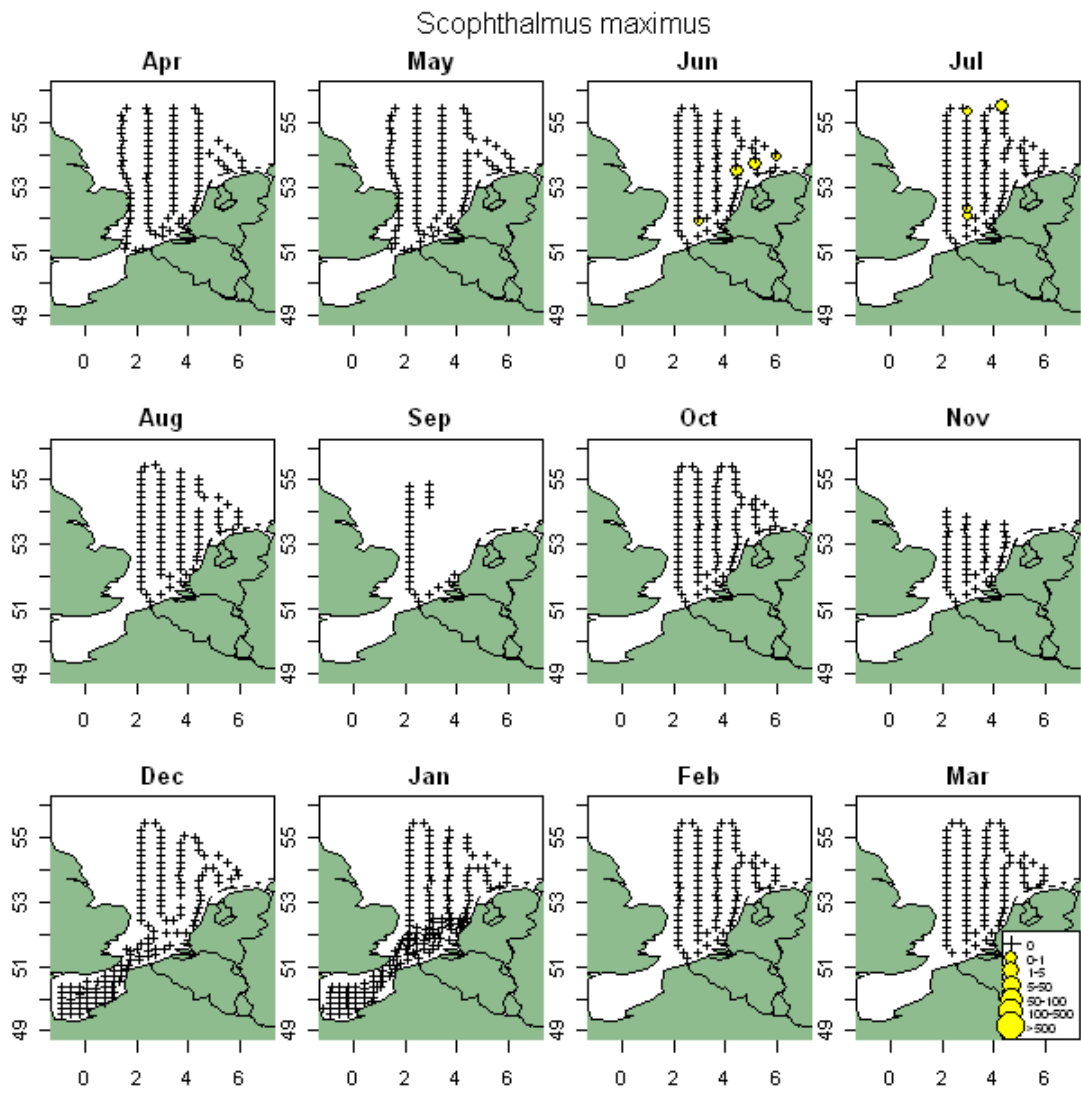


Figure 47b. Spatial and temporal distribution of stage 2 turbot eggs.



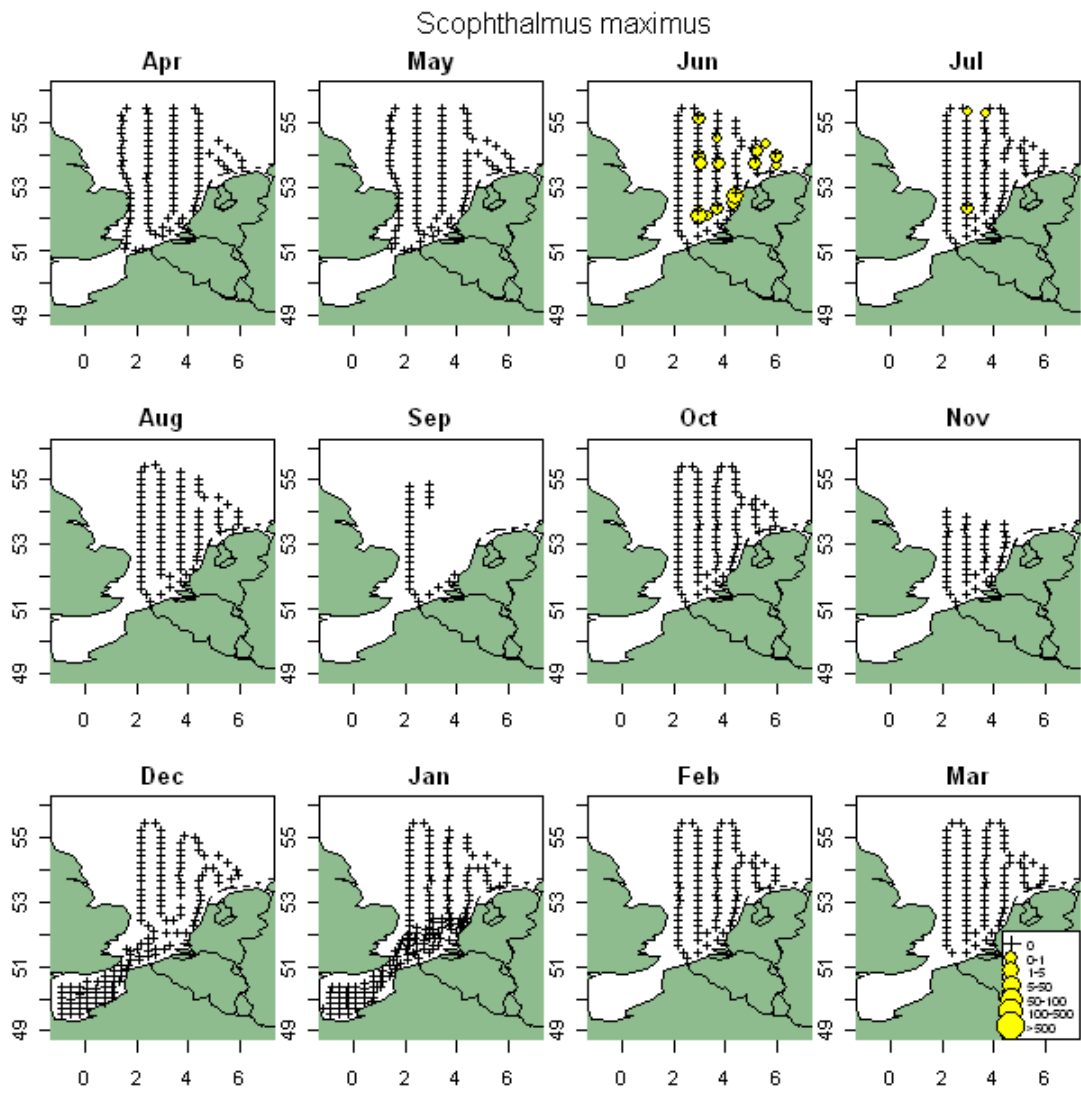


Figure 47c. Spatial and temporal distribution of stage 3 turbot eggs.

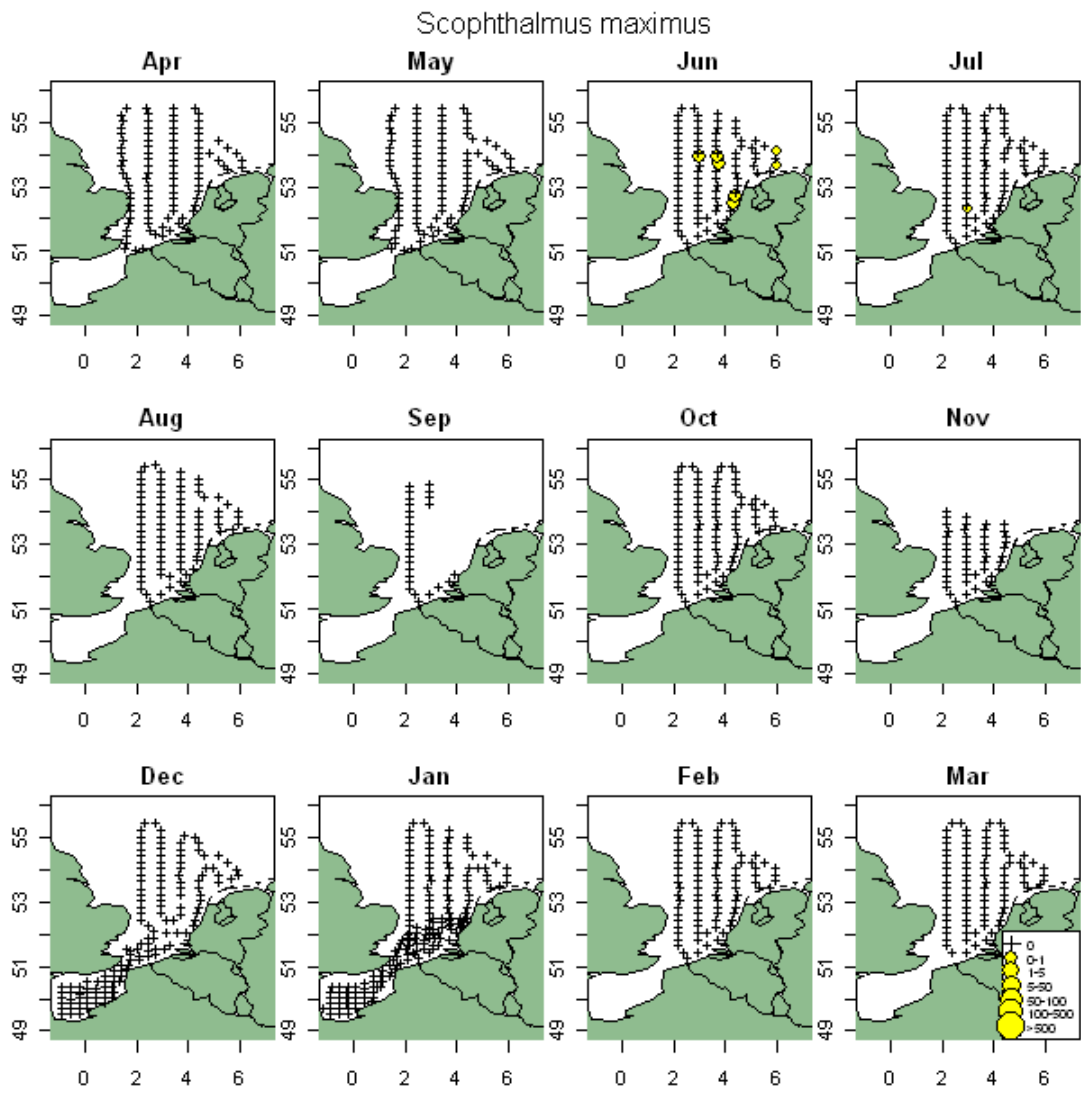


Figure 47d. Spatial and temporal distribution of stage 4 turbot eggs.

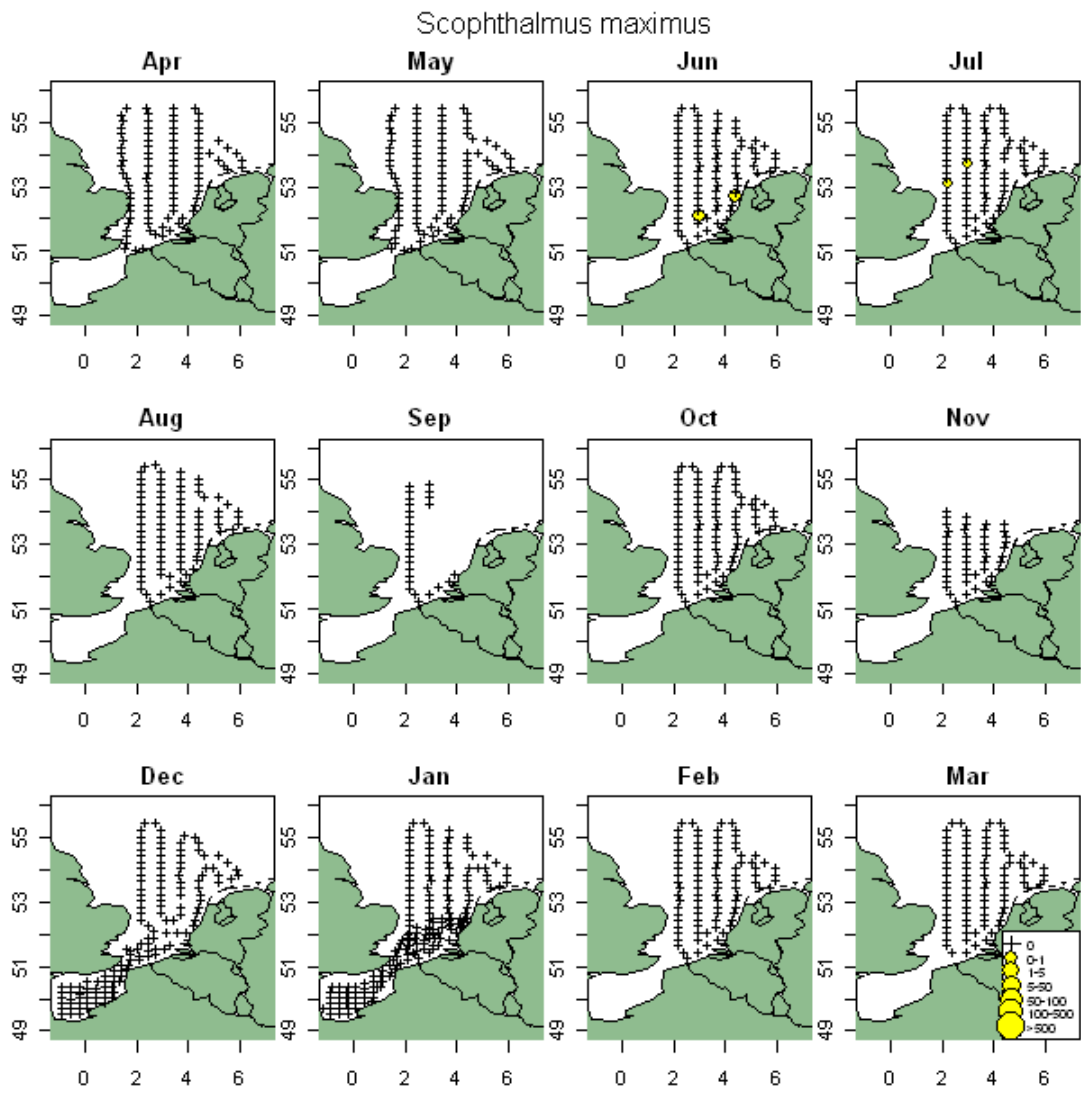


Figure 47e. Spatial and temporal distribution of stage 5 turbot eggs.

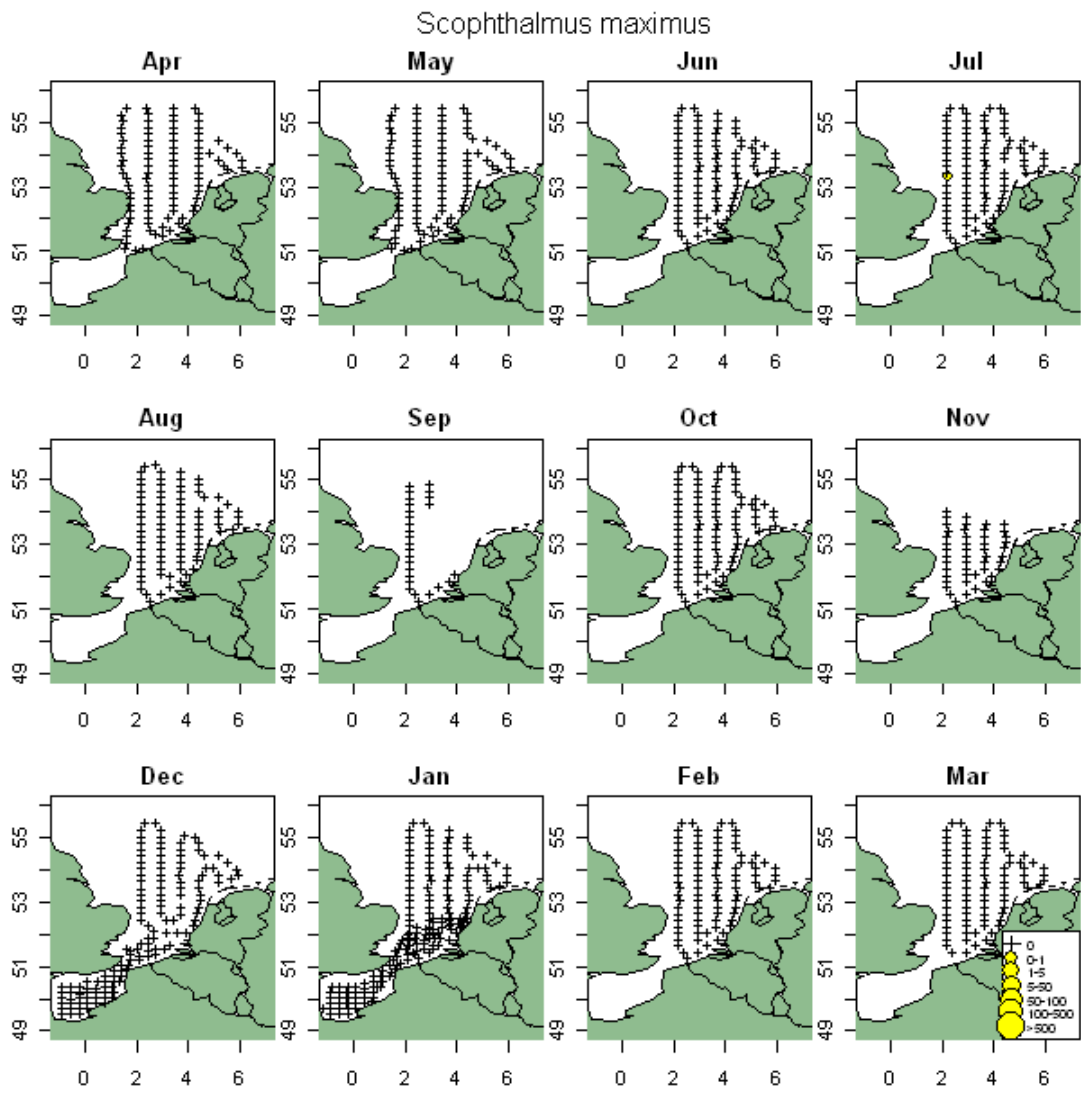


Figure 47f. Spatial and temporal distribution of yolk sac turbot larvae.

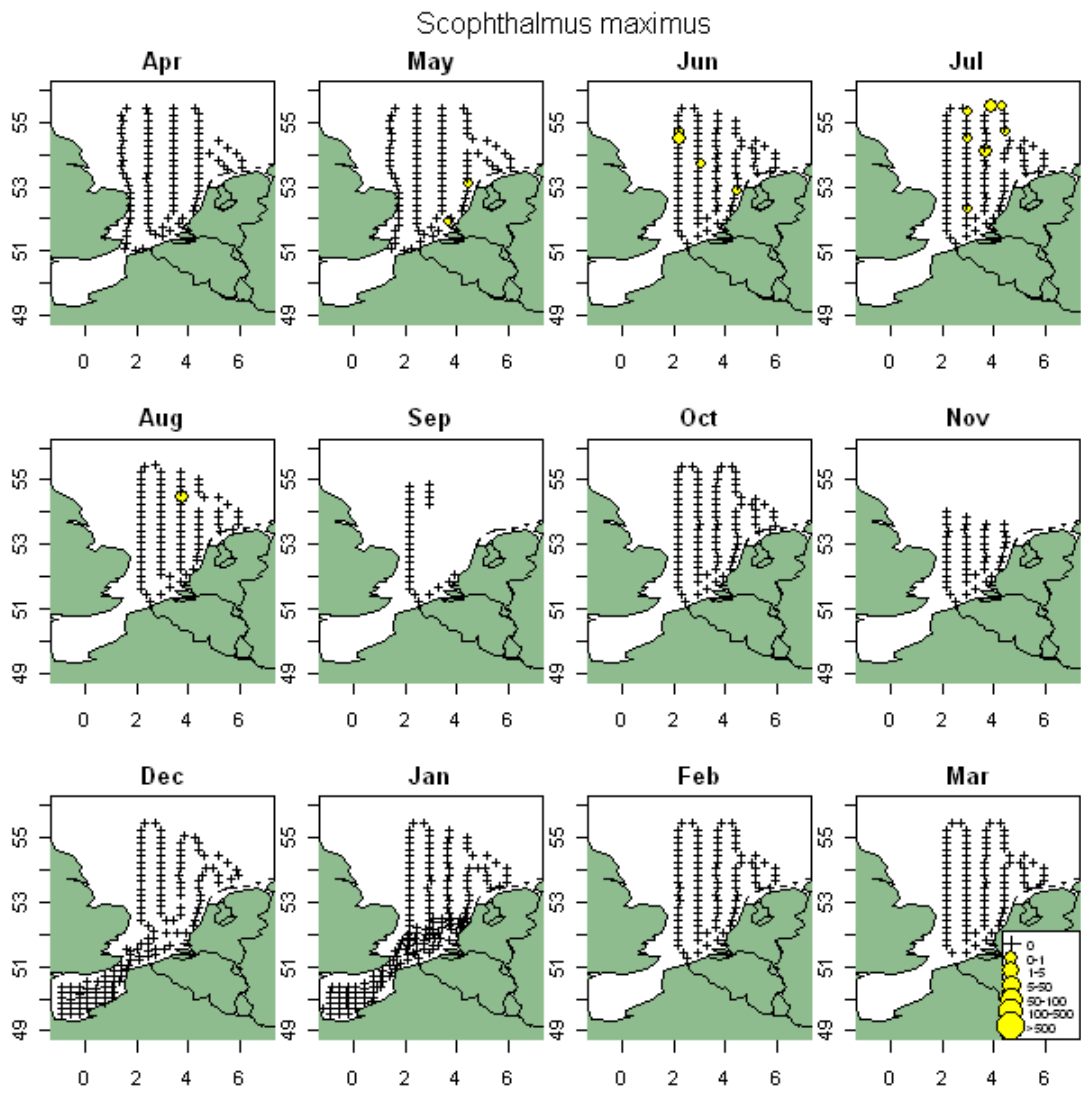


Figure 47g. Spatial and temporal distribution of non-yolk sac turbot larvae.

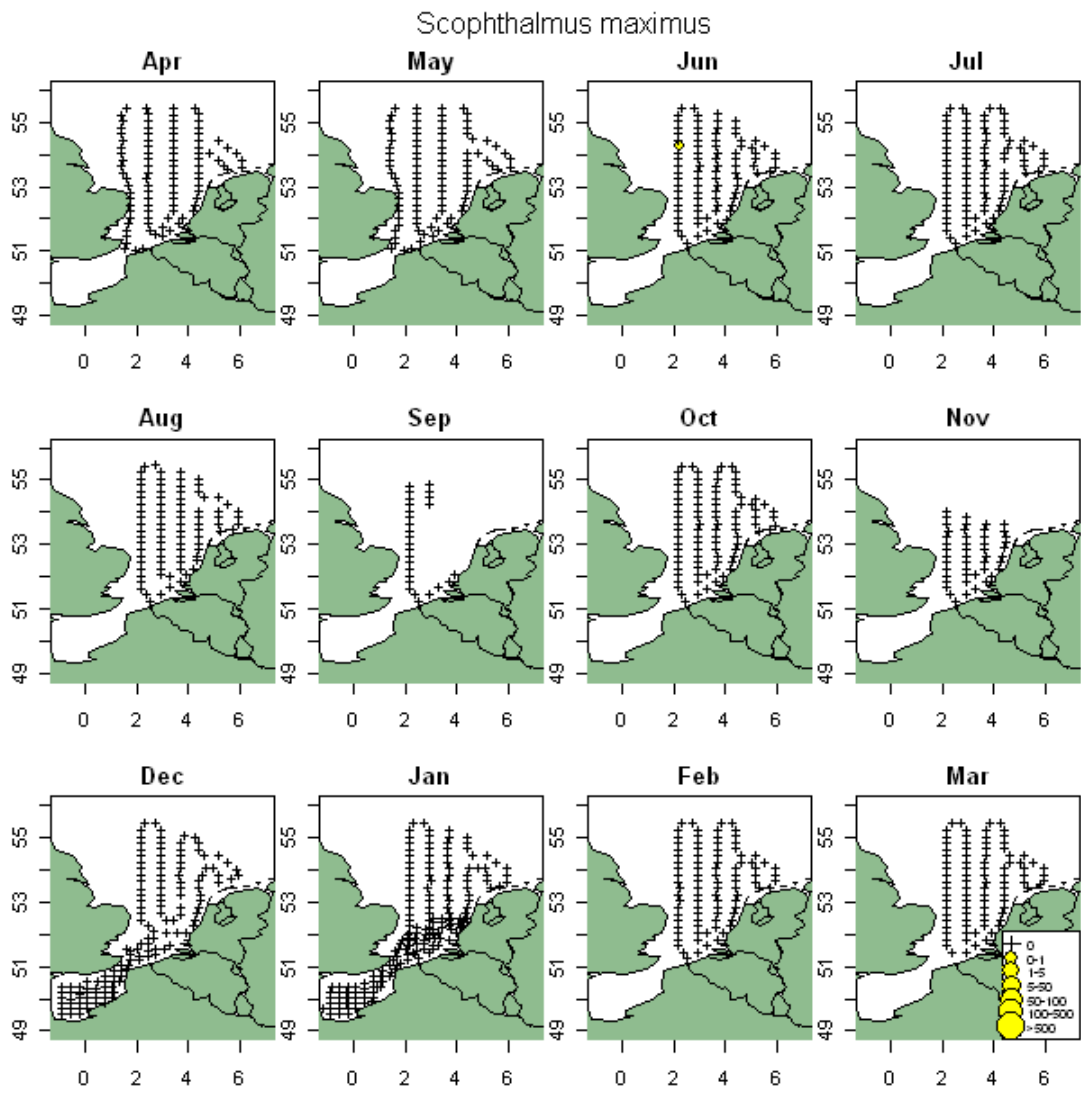


Figure 47h. Spatial and temporal distribution of bent notochord stage turbot larvae.

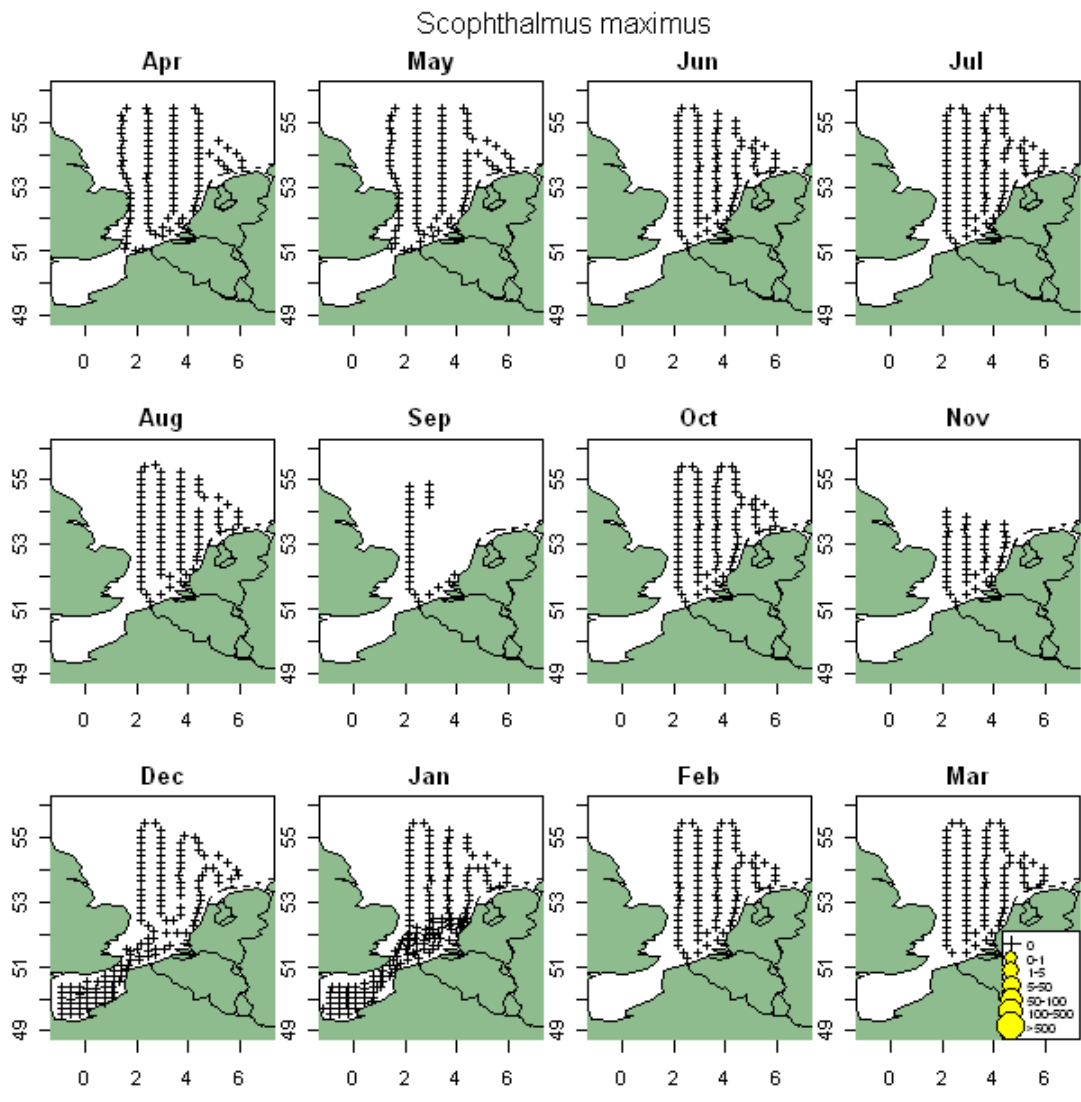


Figure 47i. Spatial and temporal distribution of metamorphosing turbot larvae.

**Brill *Scophthalmus rhombus***

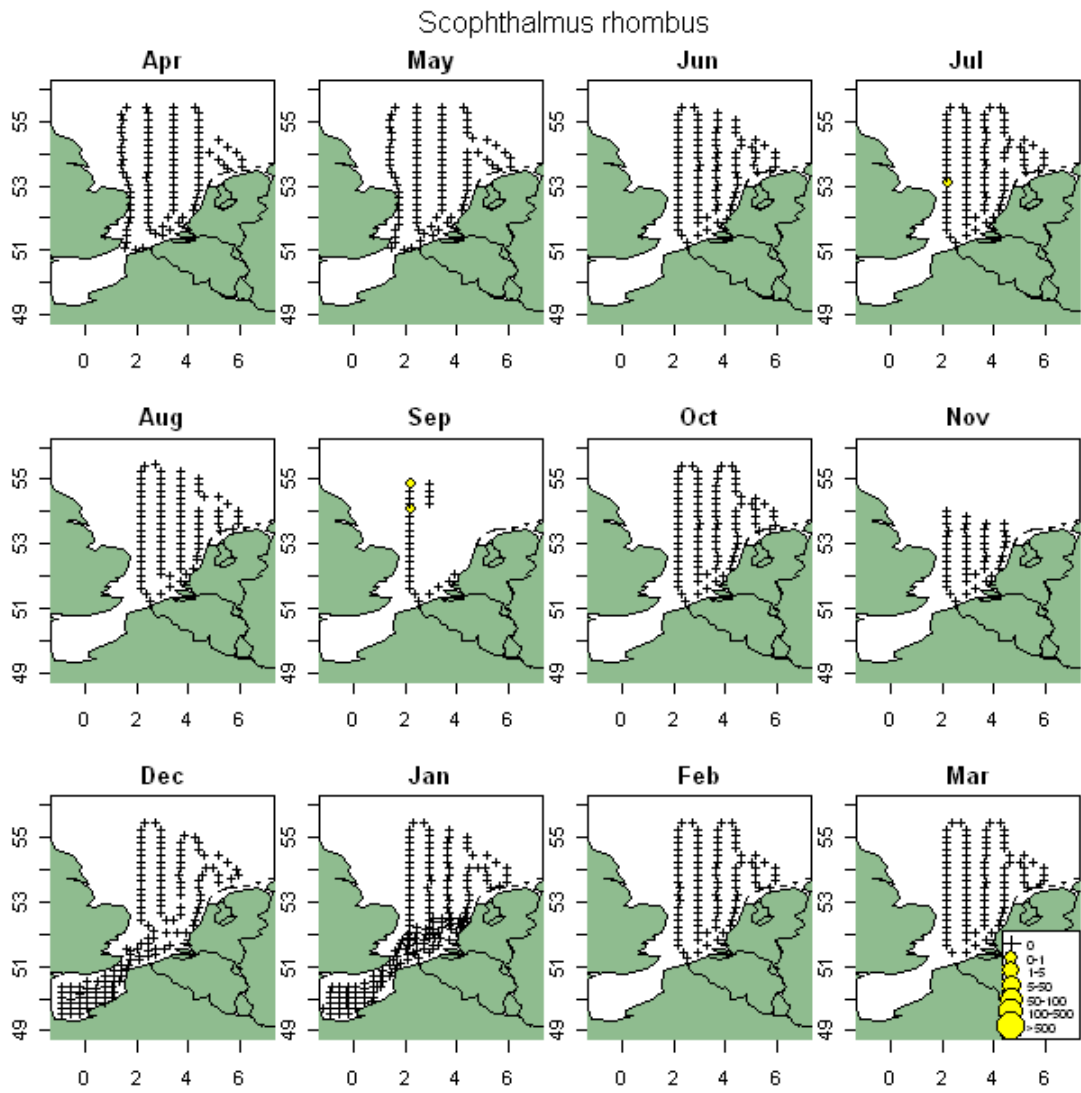


Figure 48a. Spatial and temporal distribution of stage 1 brill eggs.



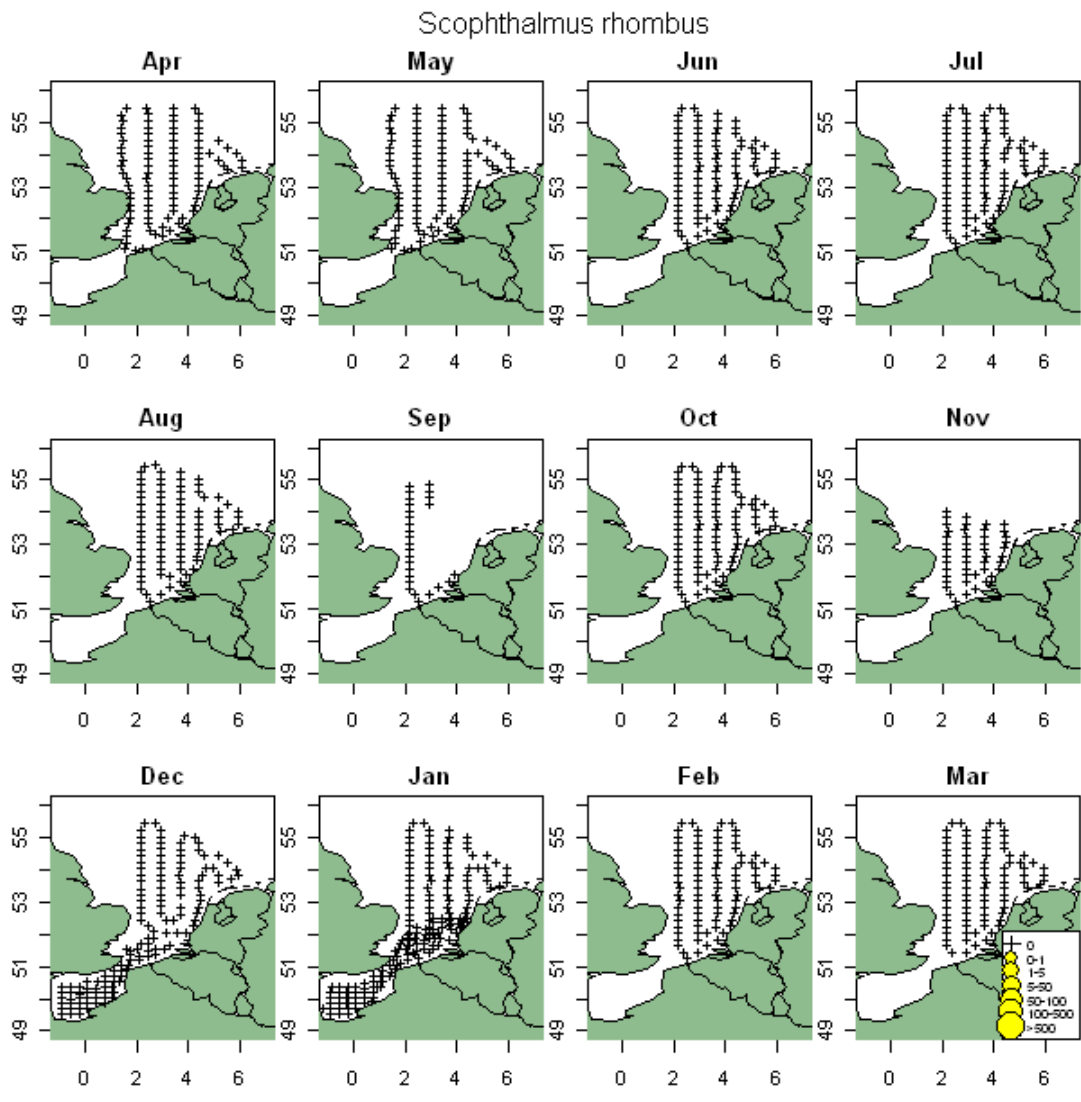


Figure 48b. Spatial and temporal distribution of stage 2 brill eggs.

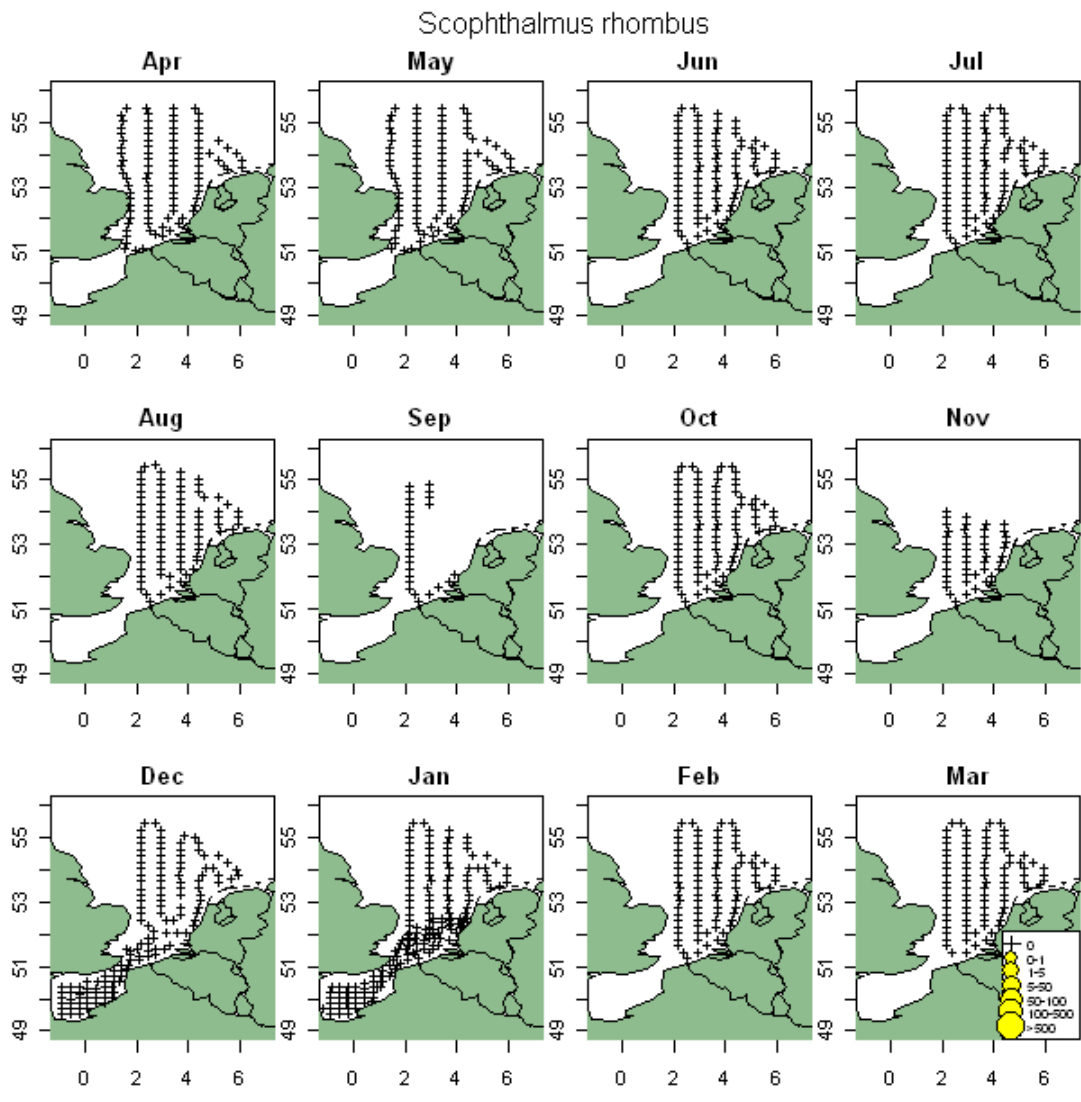


Figure 48c. Spatial and temporal distribution of stage 3 brill eggs.

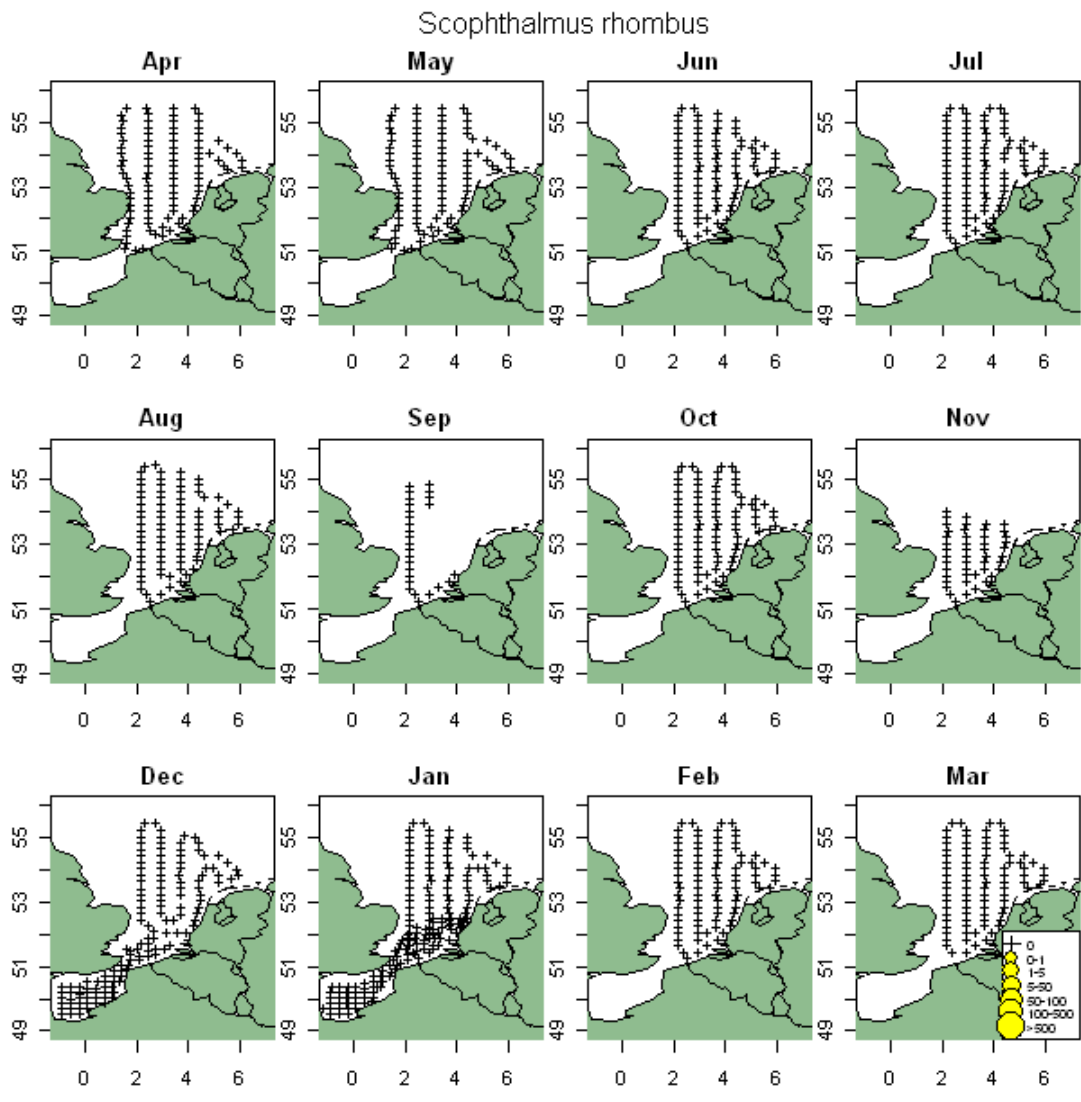


Figure 48d. Spatial and temporal distribution of stage 4 brill eggs.

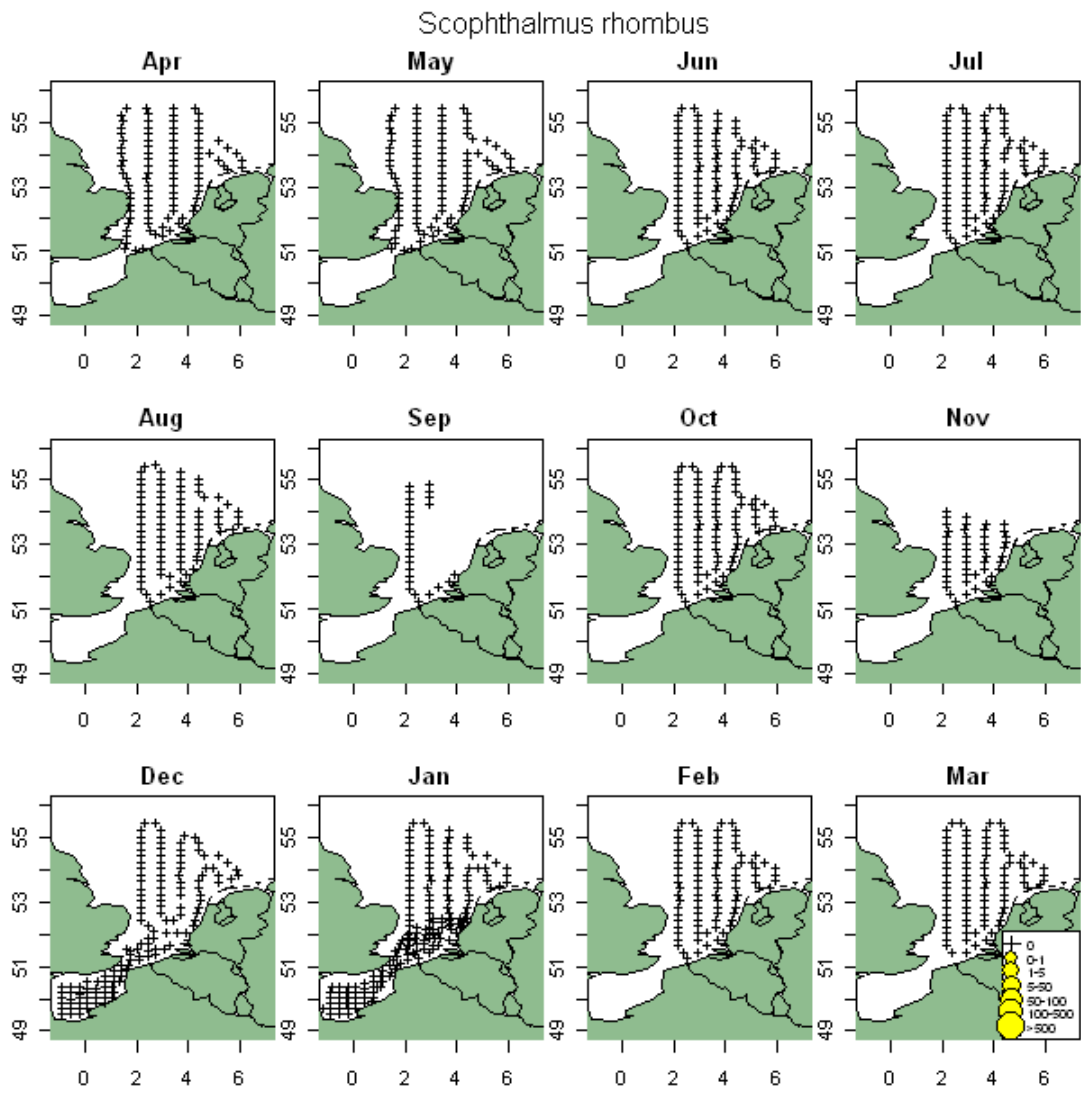


Figure 48e. Spatial and temporal distribution of stage 5 brill eggs.

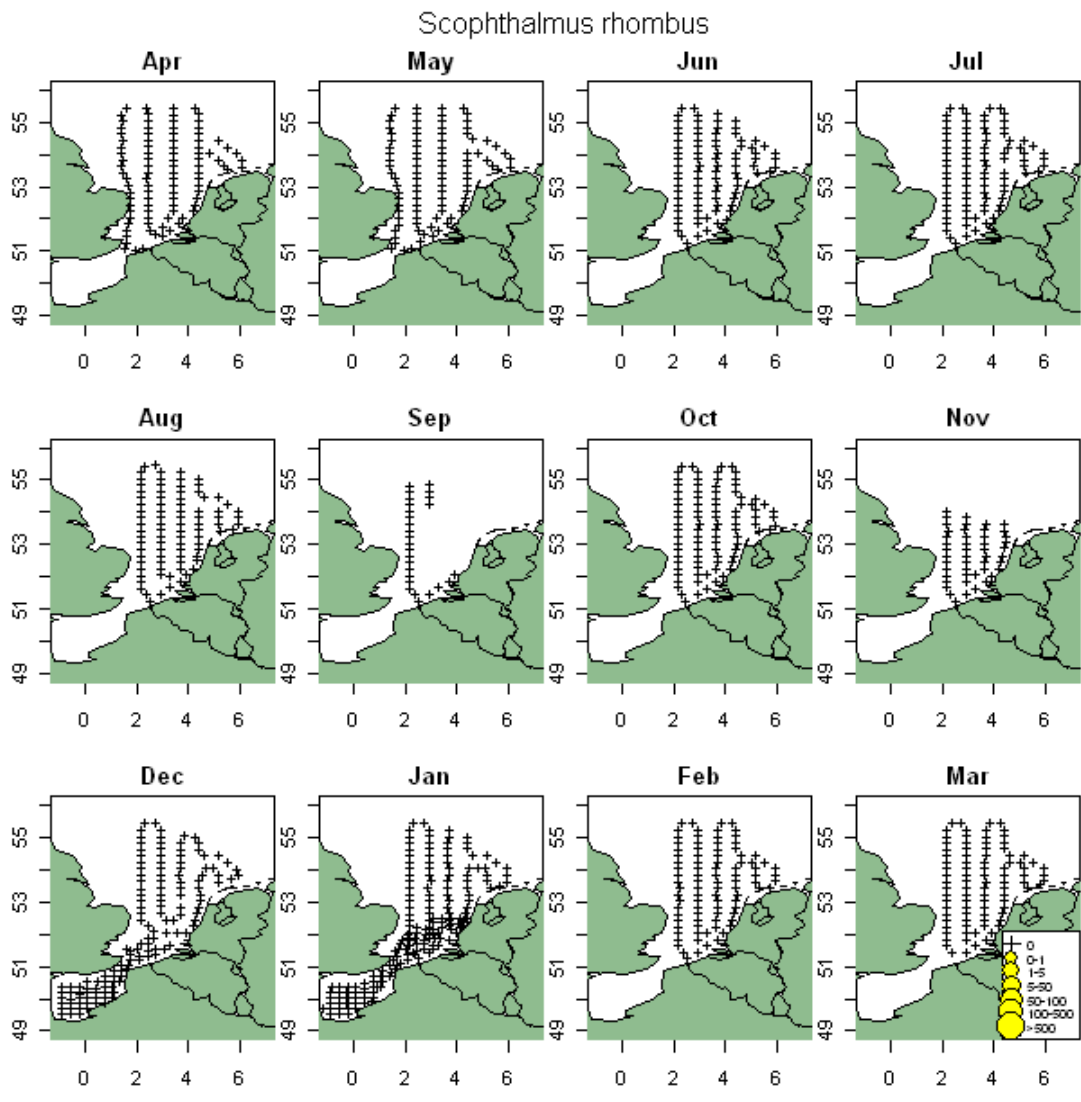


Figure 48f. Spatial and temporal distribution of yolk sac brill larvae.

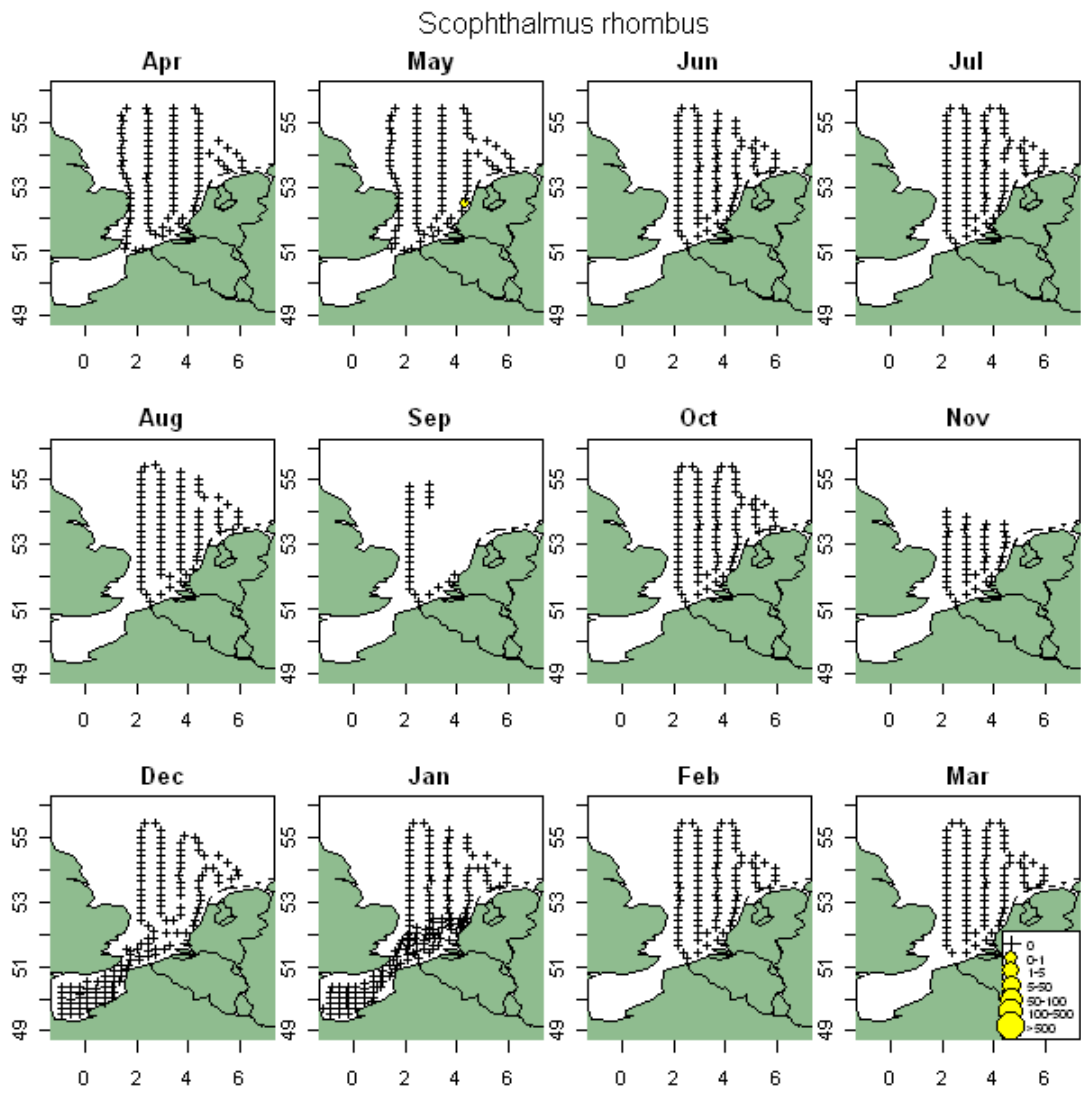


Figure 48g. Spatial and temporal distribution of non-yolk sac brill larvae.

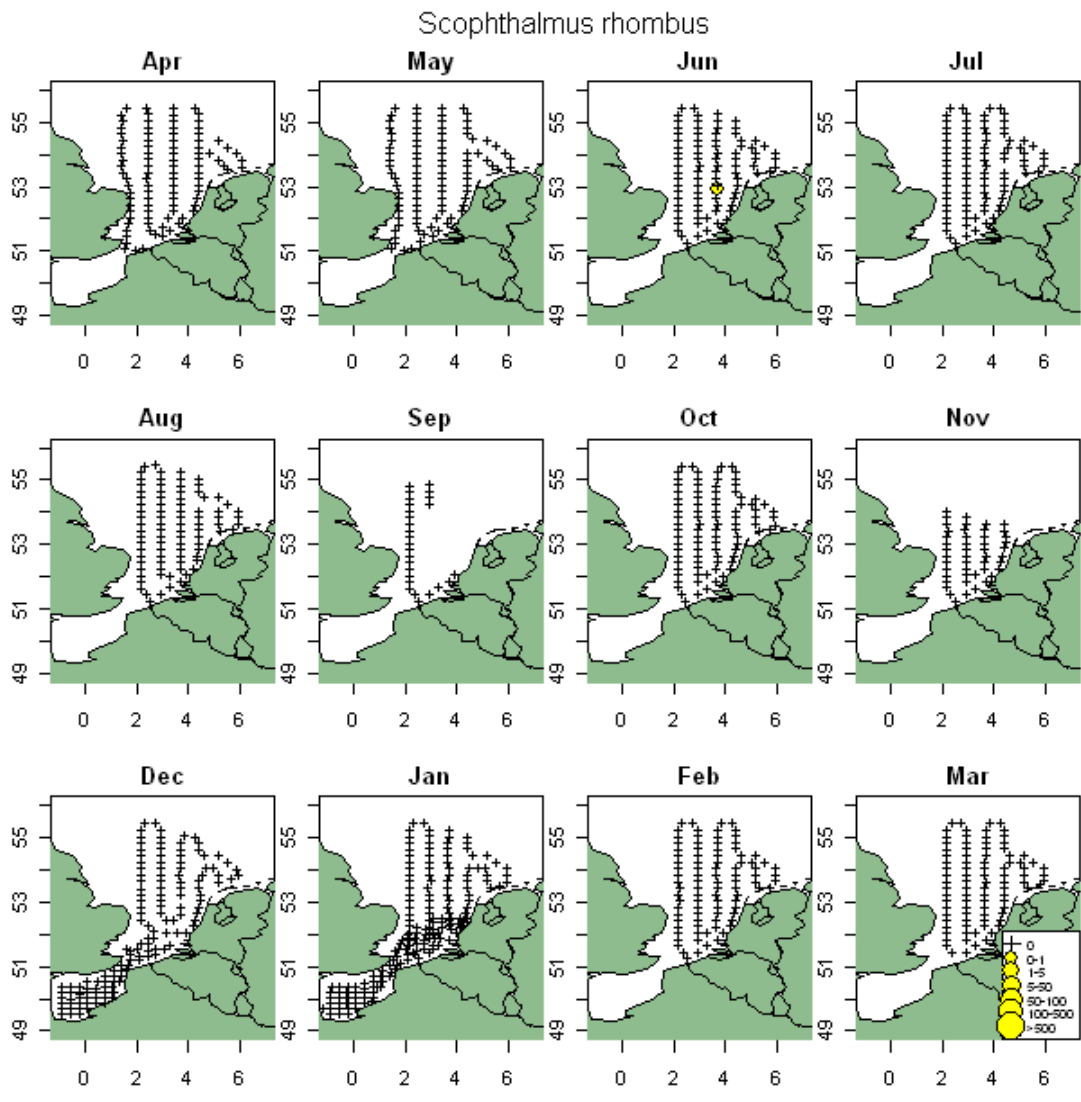


Figure 48h. Spatial and temporal distribution of bent notochord stage brill larvae.

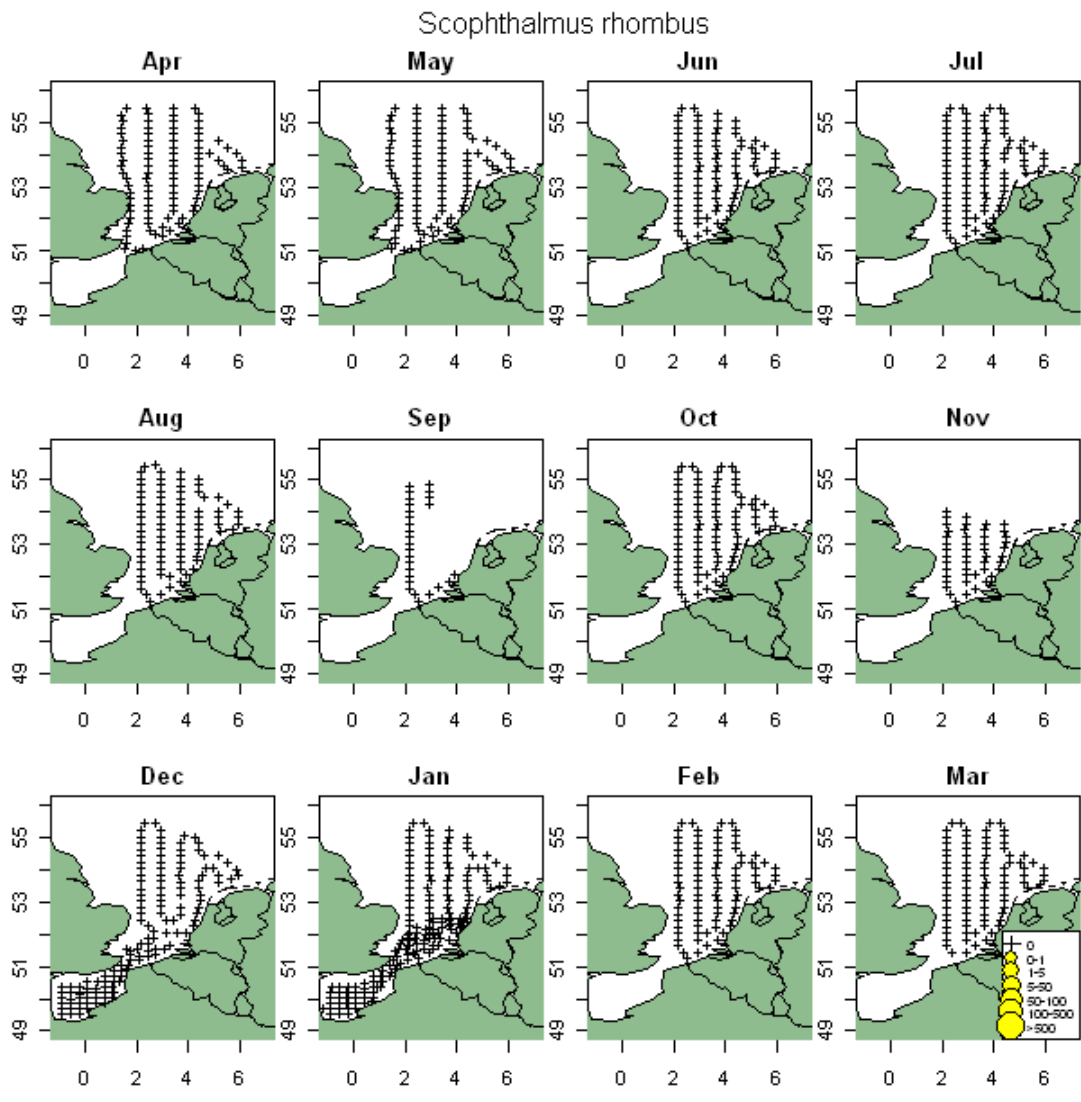


Figure 48i. Spatial and temporal distribution of metamorphosing brill larvae.



**Topknot *Zeugopterus punctatus***

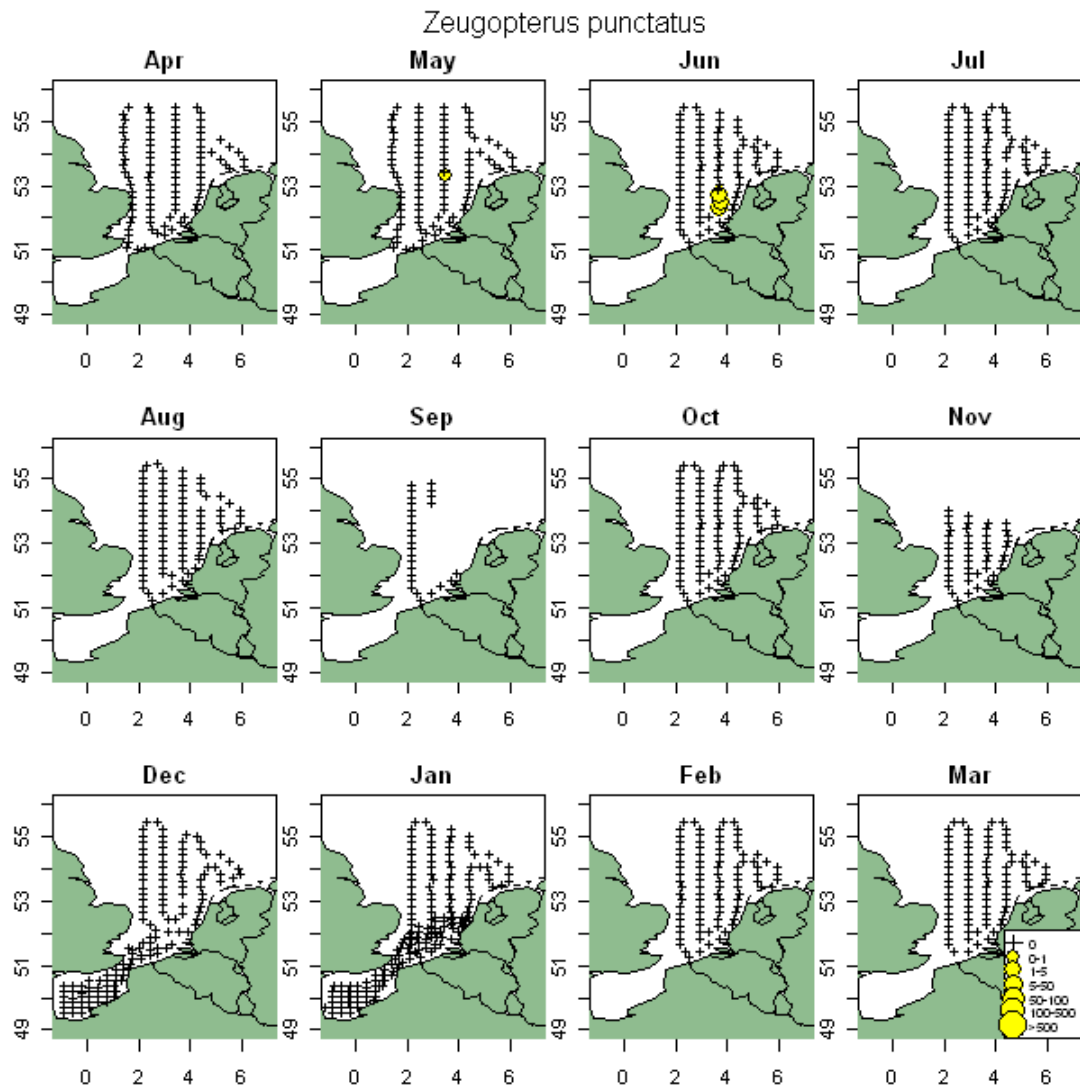


Figure 49a. Spatial and temporal distribution of stage 1 topknot eggs.

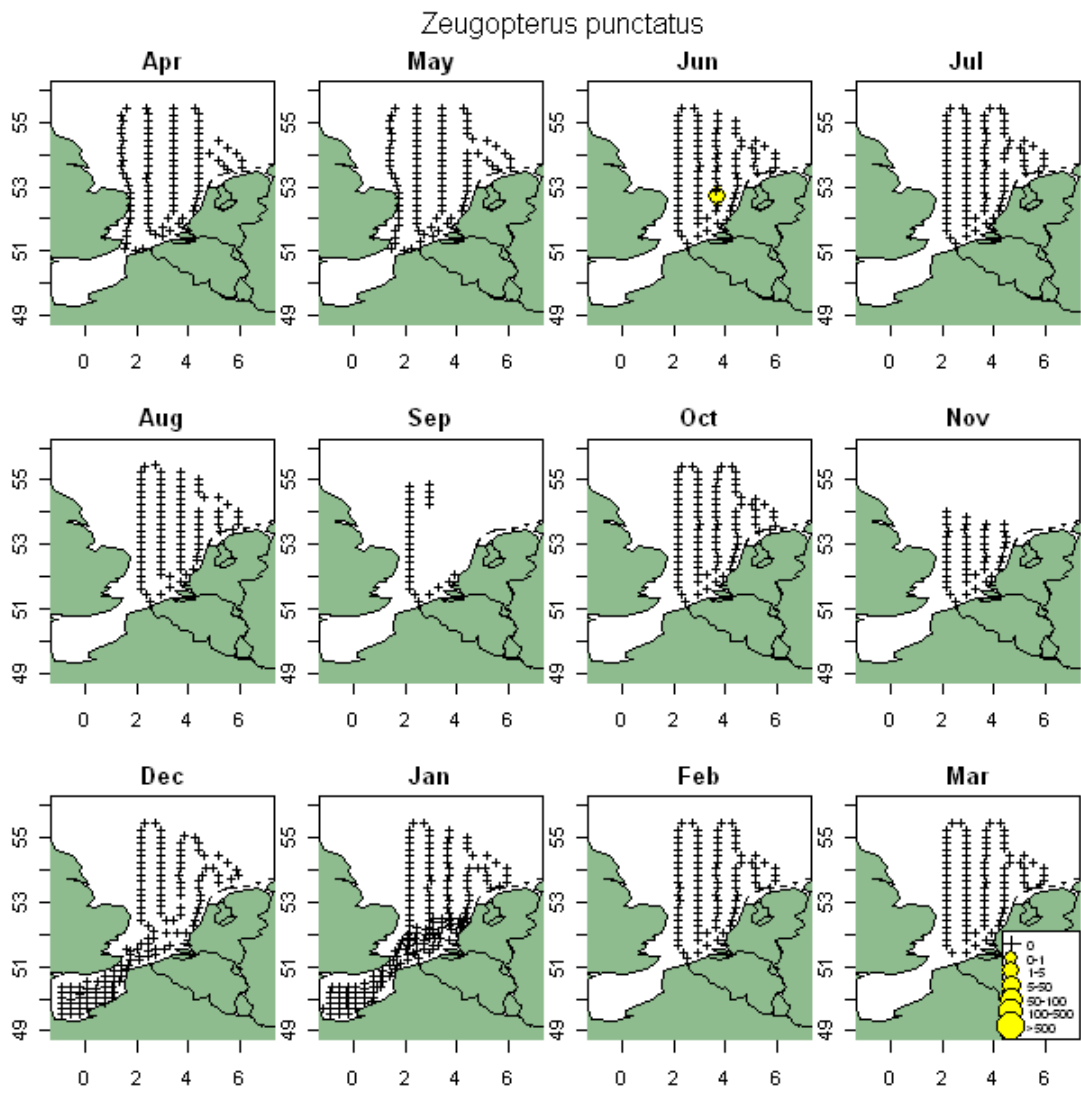


Figure 49b. Spatial and temporal distribution of stage 2 topknot eggs.

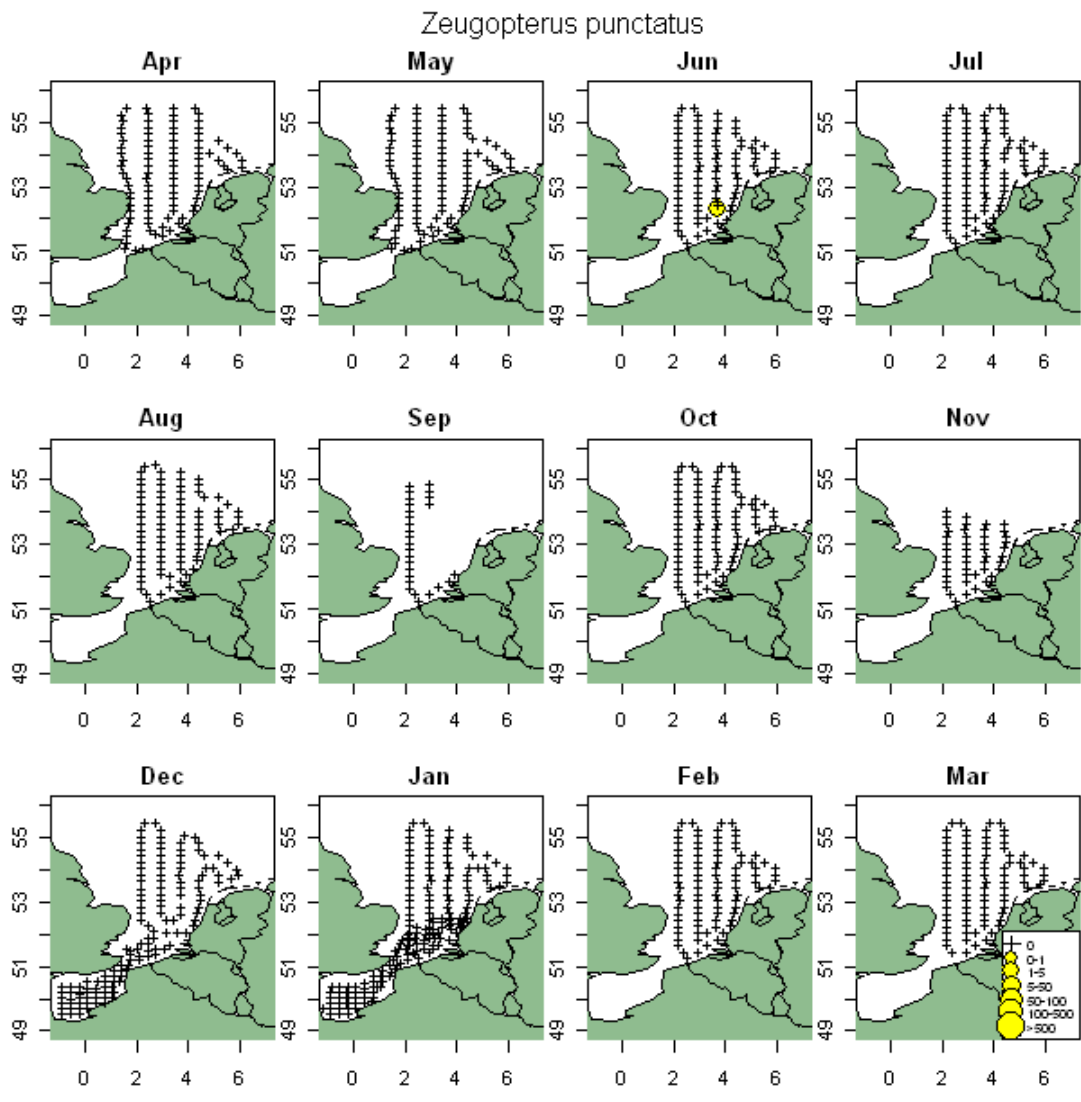


Figure 49c. Spatial and temporal distribution of stage 3 topknot eggs.

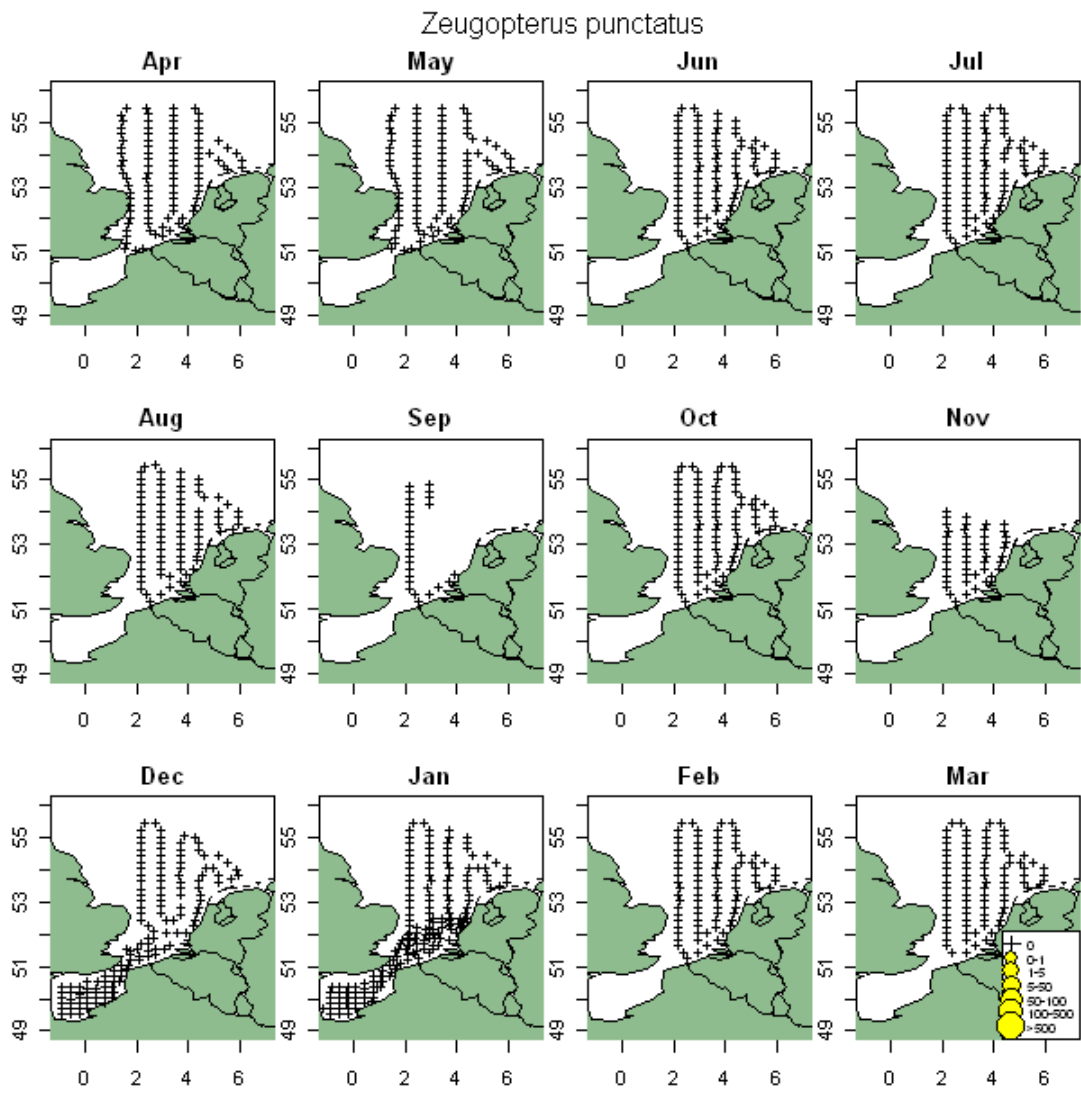


Figure 49d. Spatial and temporal distribution of stage 4 topknot eggs.

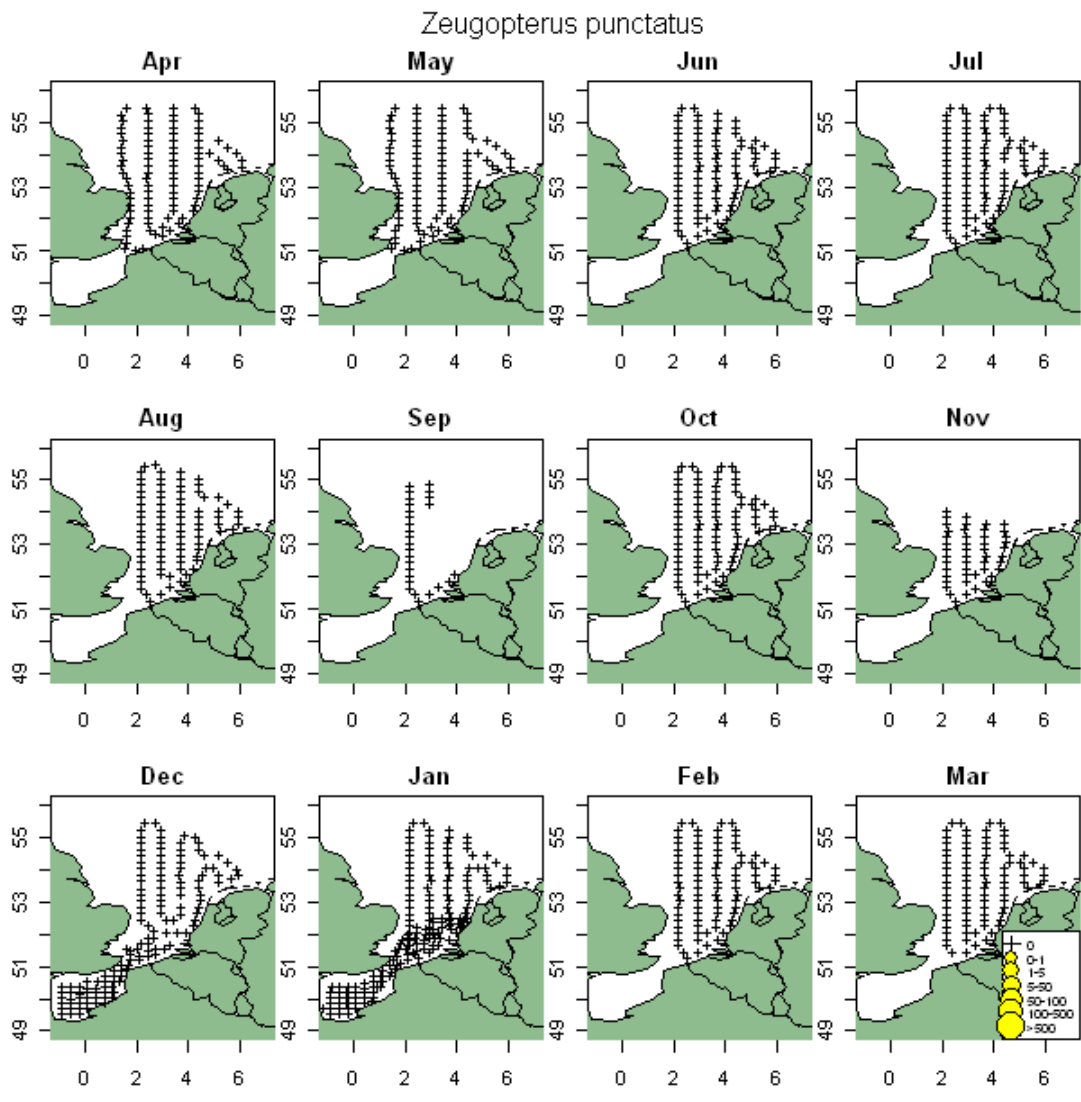


Figure 49e. Spatial and temporal distribution of stage 5 topknot eggs.

**Norwegian topknot *Phrynorhombus norvegicus***

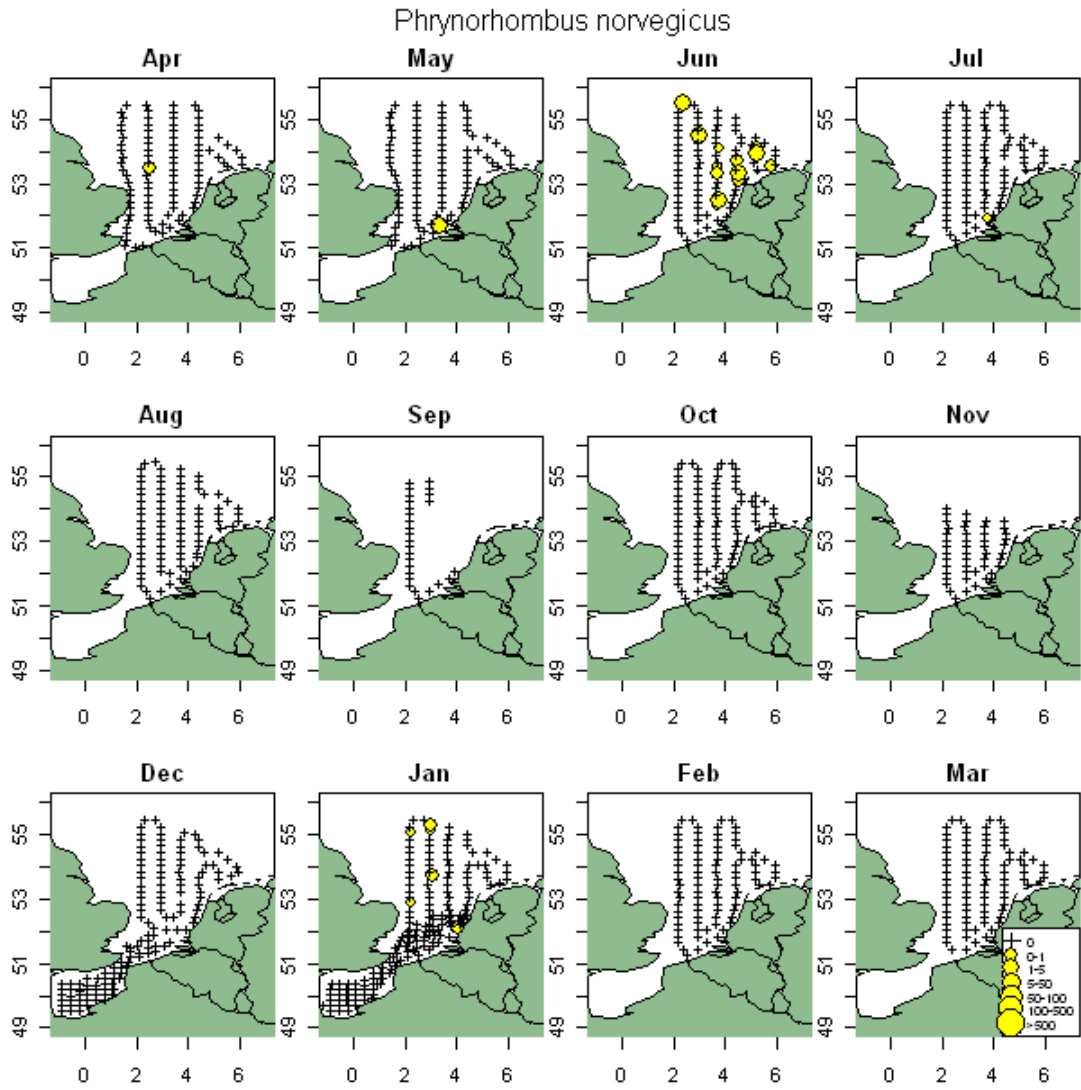


Figure 50a. Spatial and temporal distribution of stage 1 Norwegian topknot eggs.

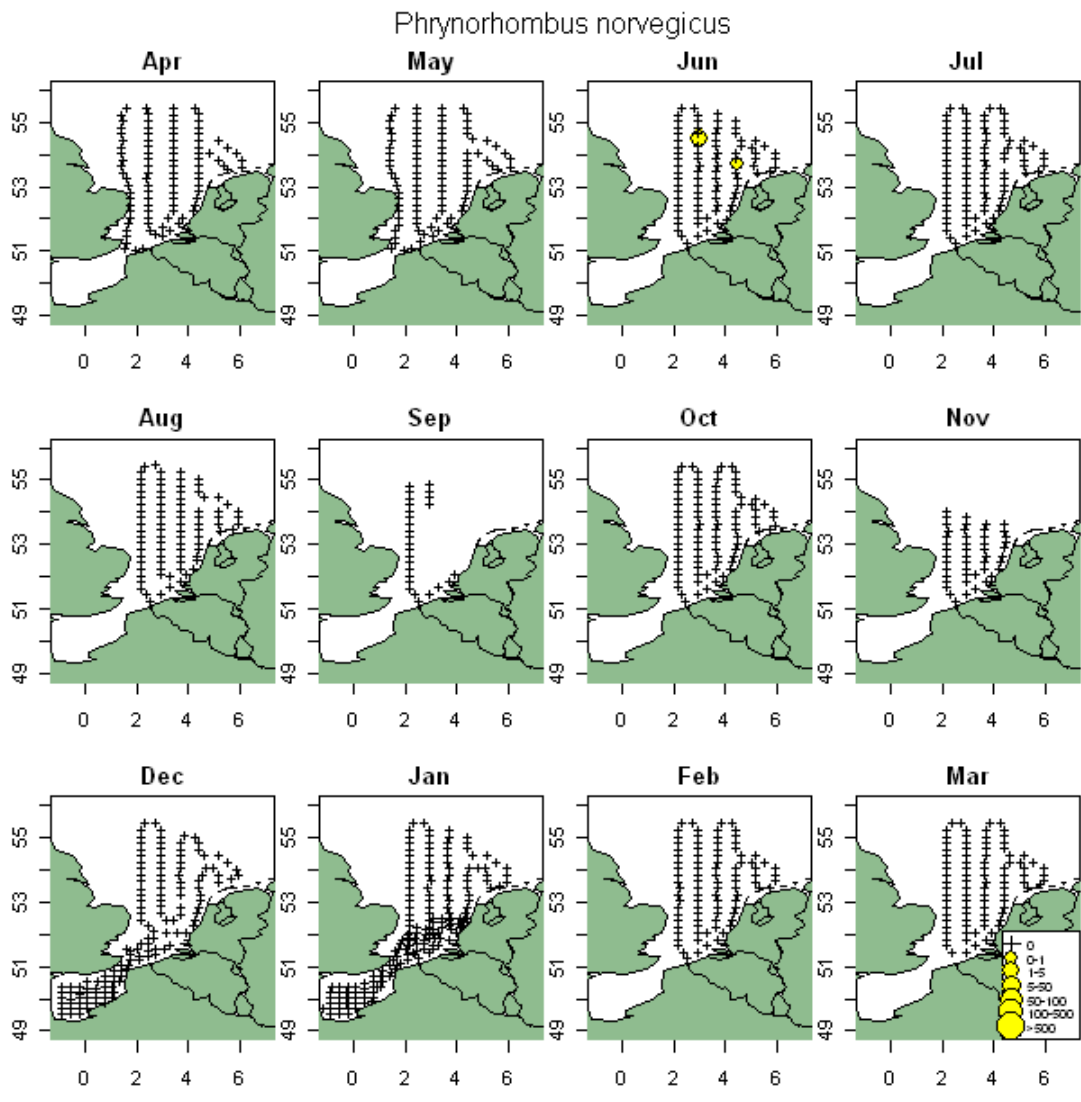


Figure 50b. Spatial and temporal distribution of stage 2 Norwegian topknot eggs.

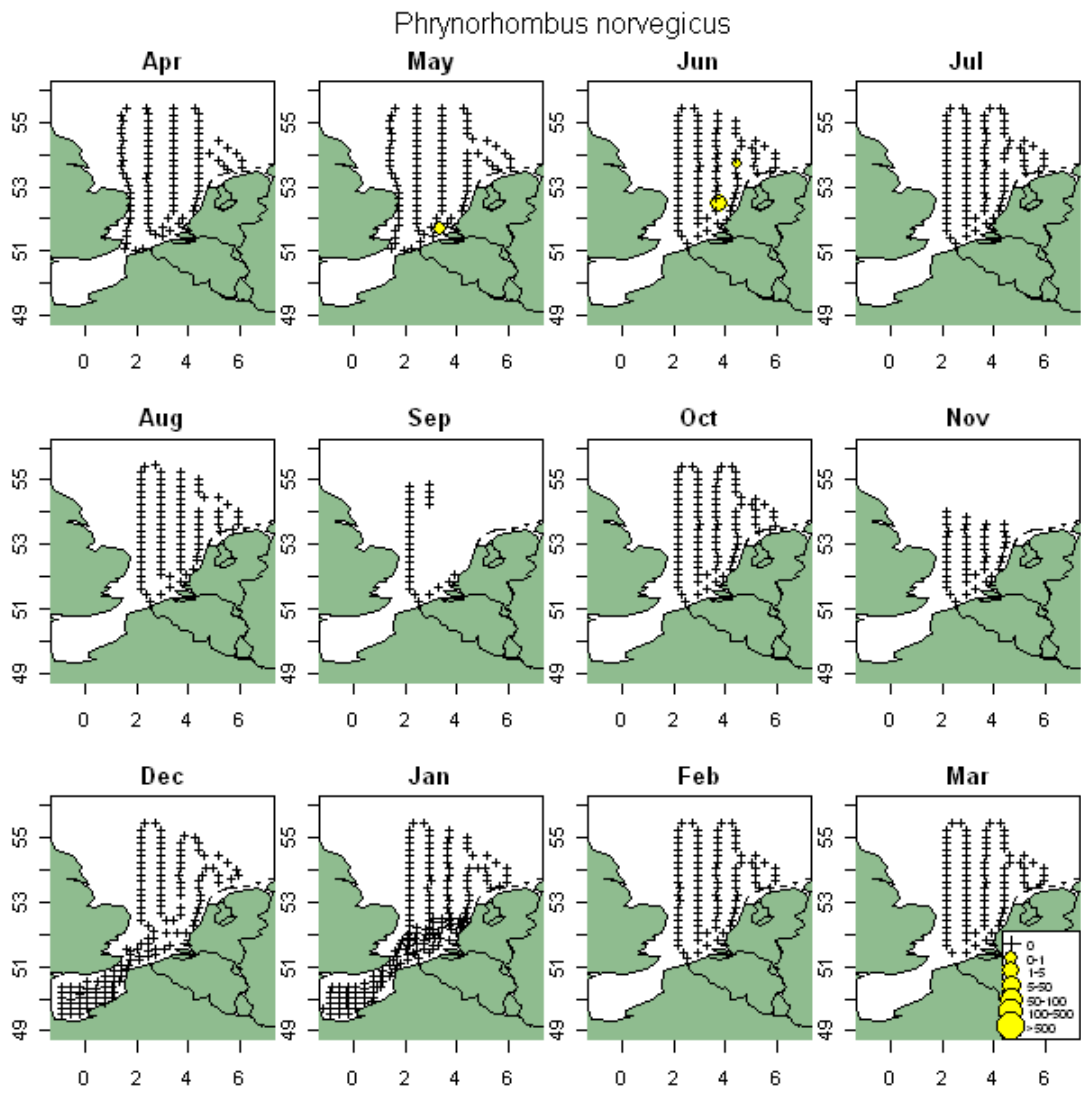


Figure 50c. Spatial and temporal distribution of stage 3 Norwegian topknot eggs.



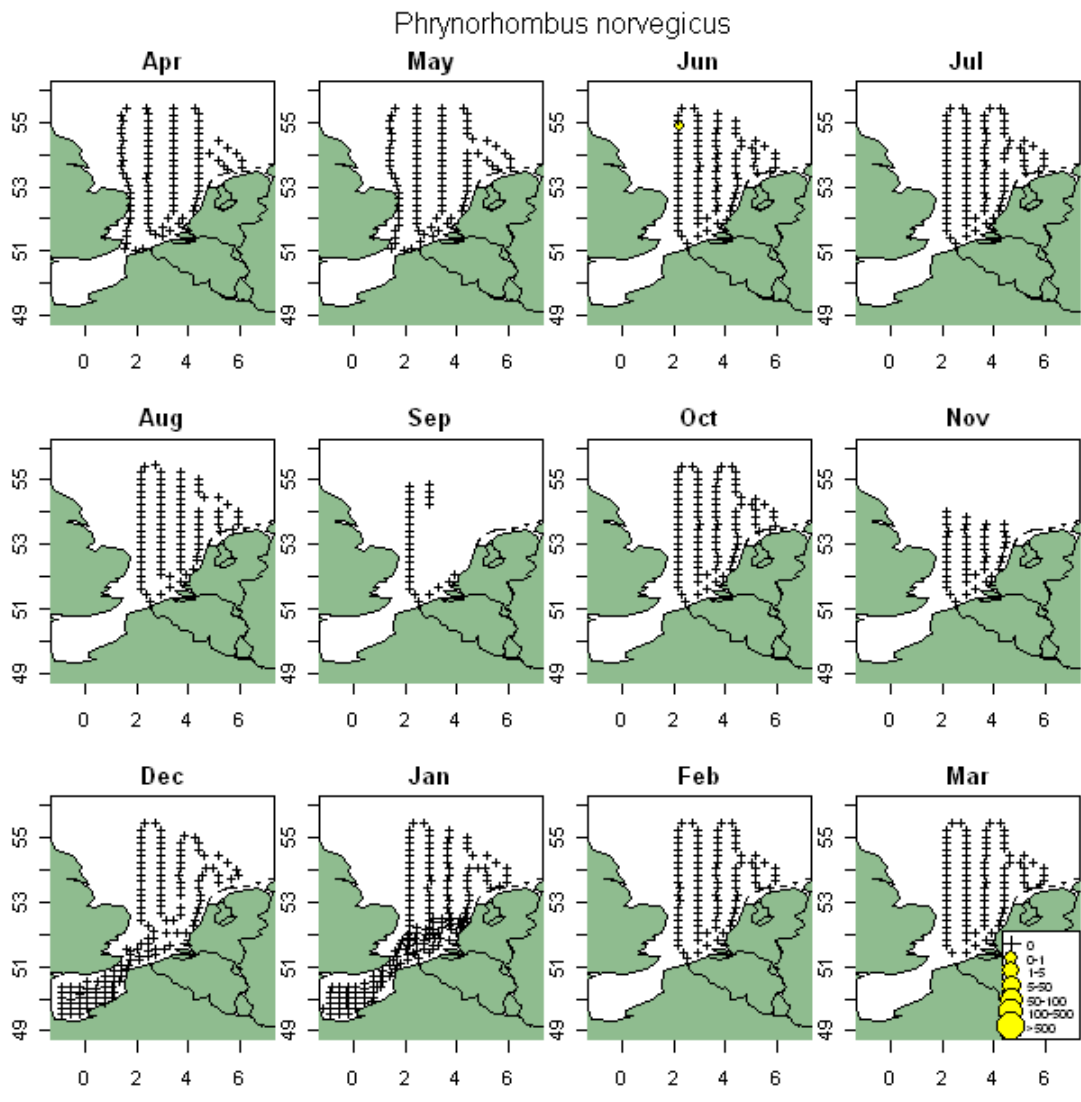


Figure 50d. Spatial and temporal distribution of stage 4 Norwegian topknot eggs.

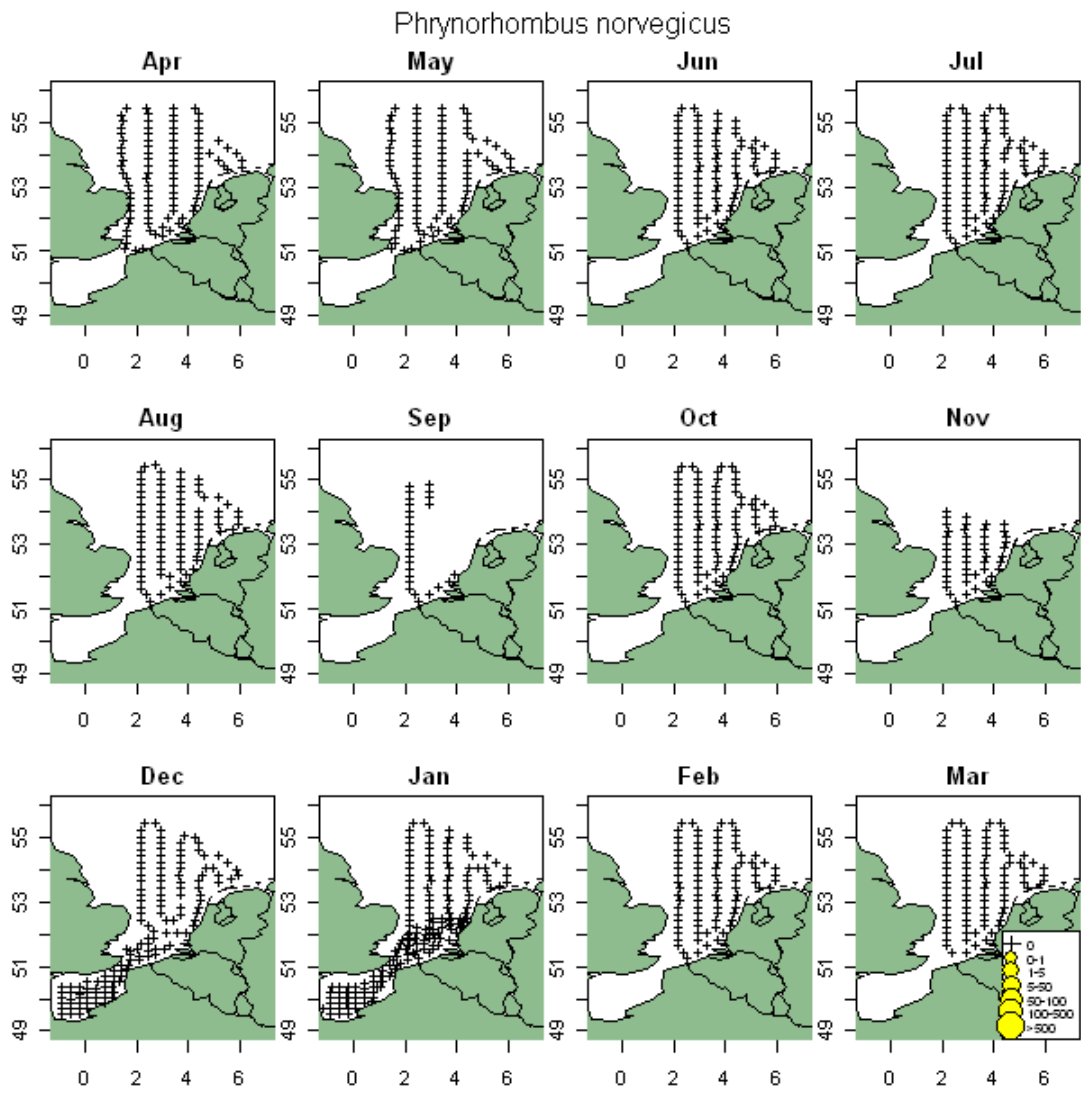


Figure 50e. Spatial and temporal distribution of stage 5 Norwegian topknot eggs.

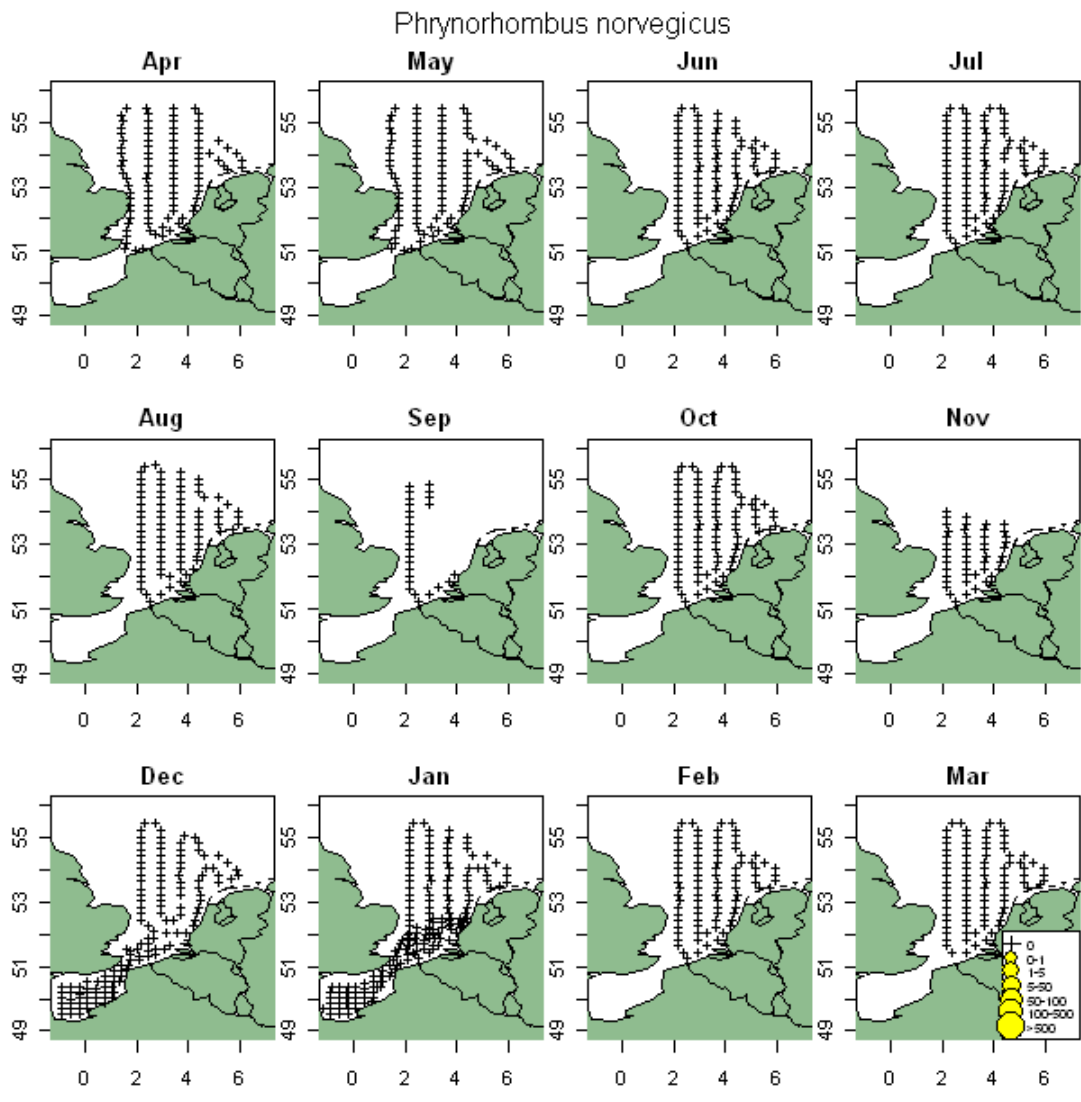


Figure 50f. Spatial and temporal distribution of yolk sac Norwegian topknot larvae.

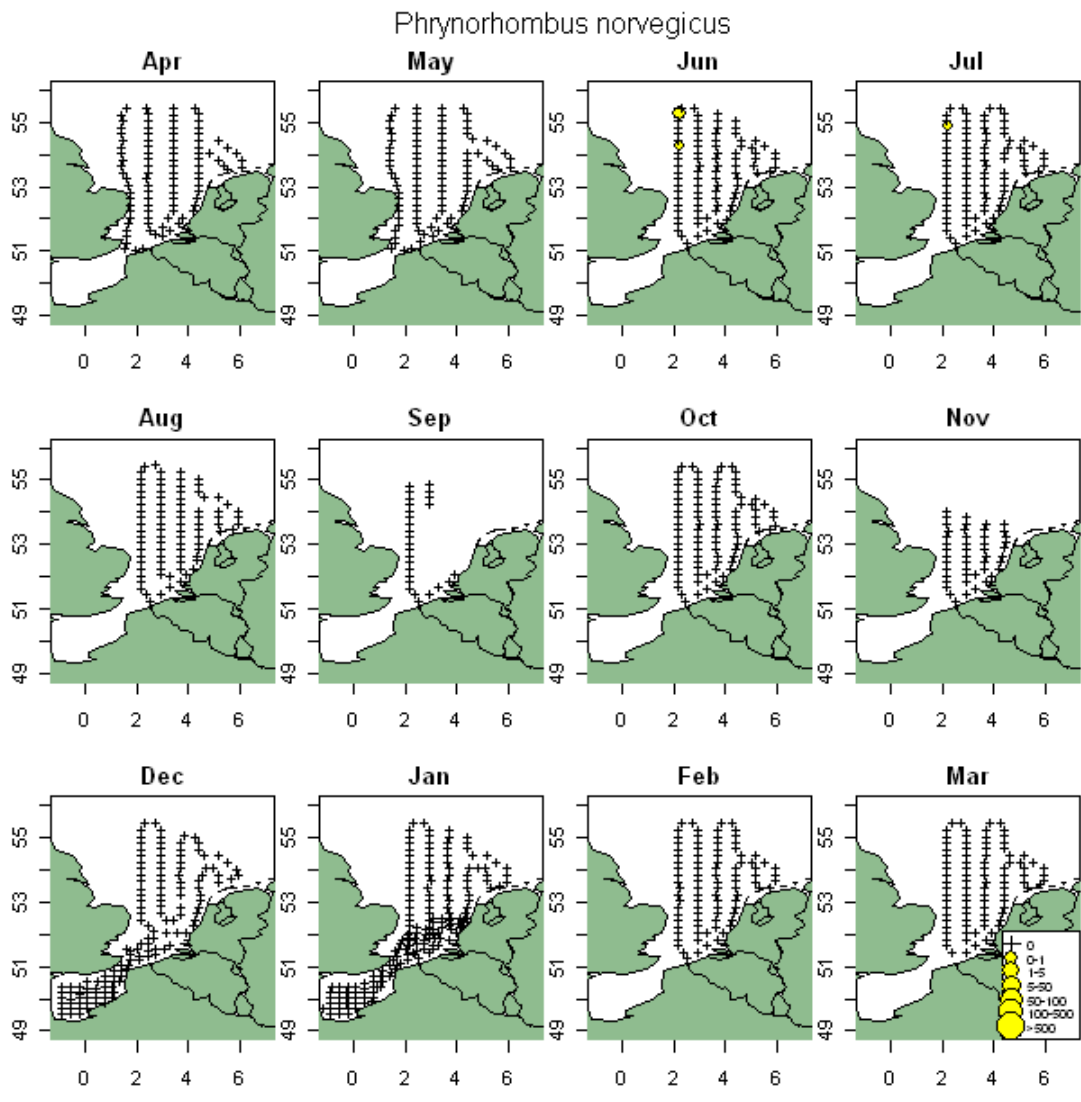


Figure 50g. Spatial and temporal distribution of non-yolk sac Norwegian topknot larvae.

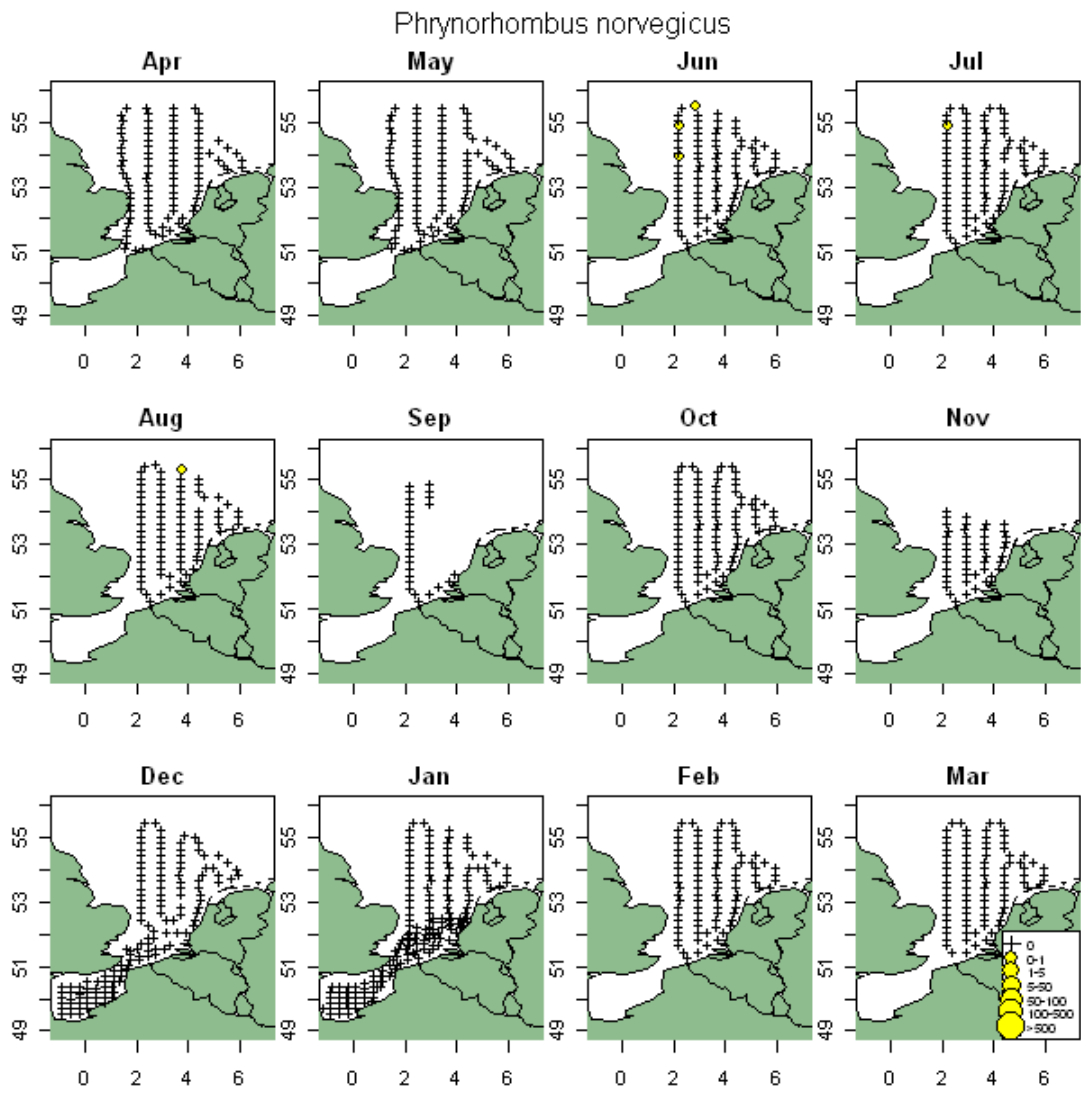


Figure 50h. Spatial and temporal distribution of bent notochord stage Norwegian topknot larvae.

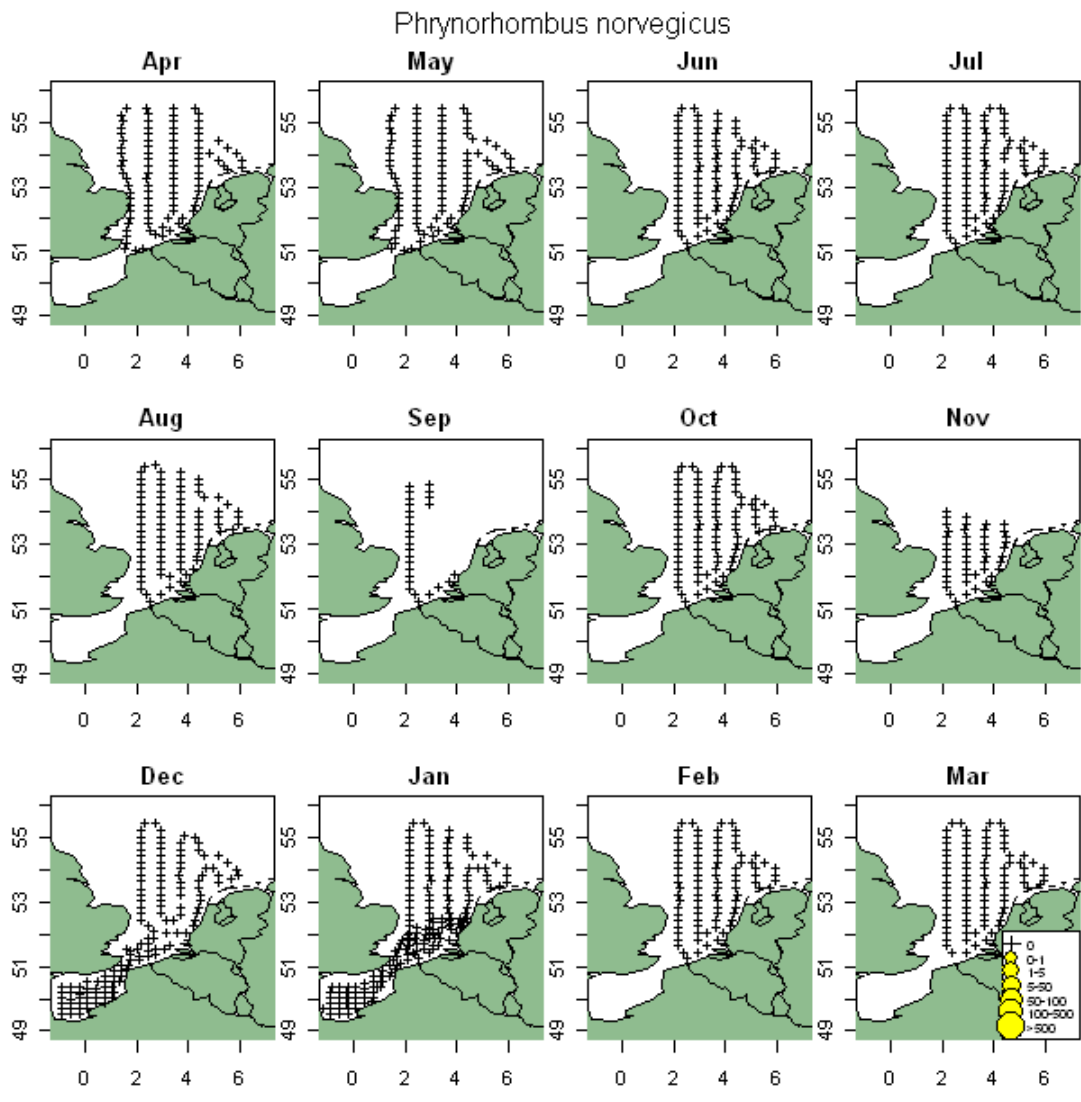


Figure 50i. Spatial and temporal distribution of metamorphosing Norwegian topknot larvae.

**Megrim *Lepidorhombus whiffiagonis***

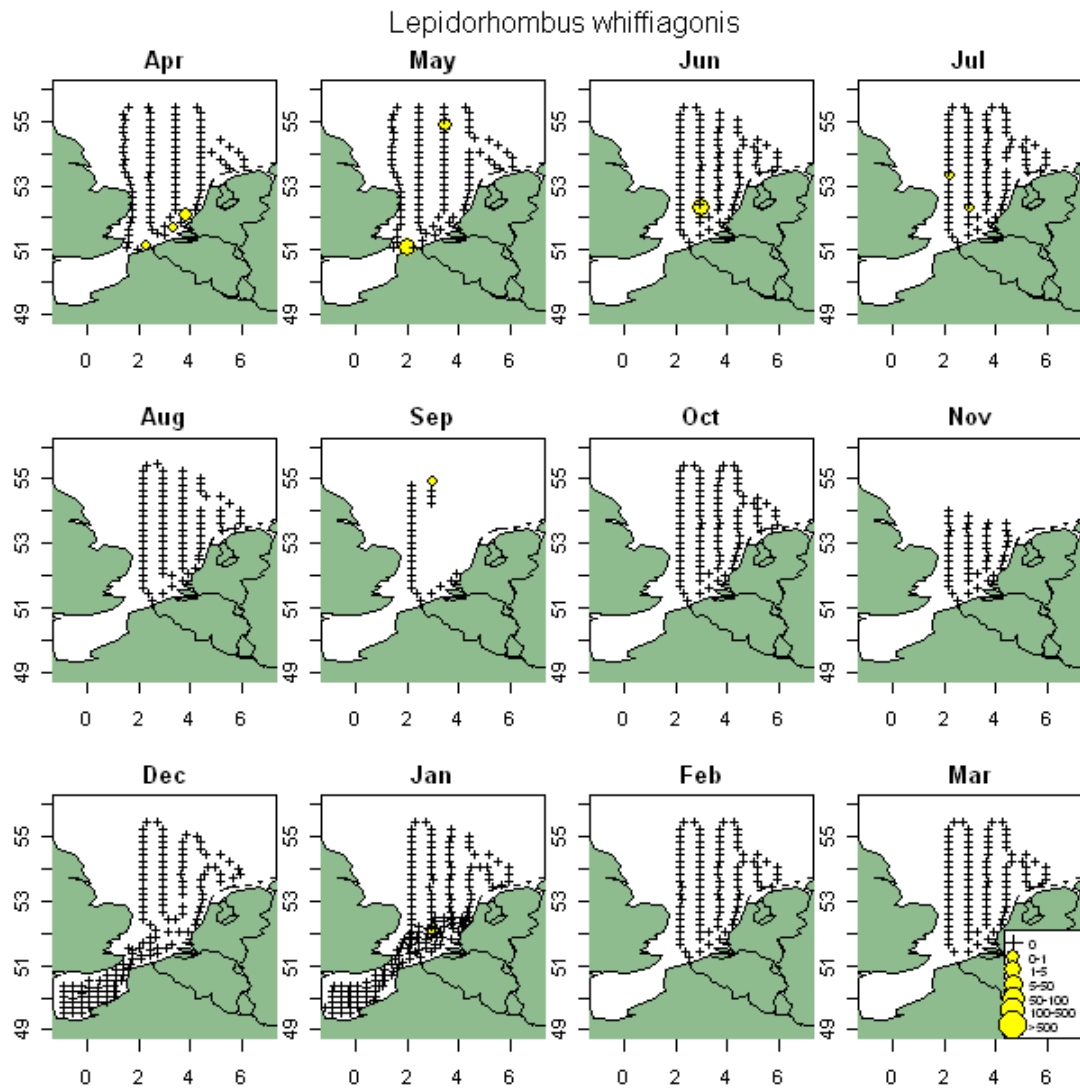


Figure 51a. Spatial and temporal distribution of stage 1 megrim eggs.

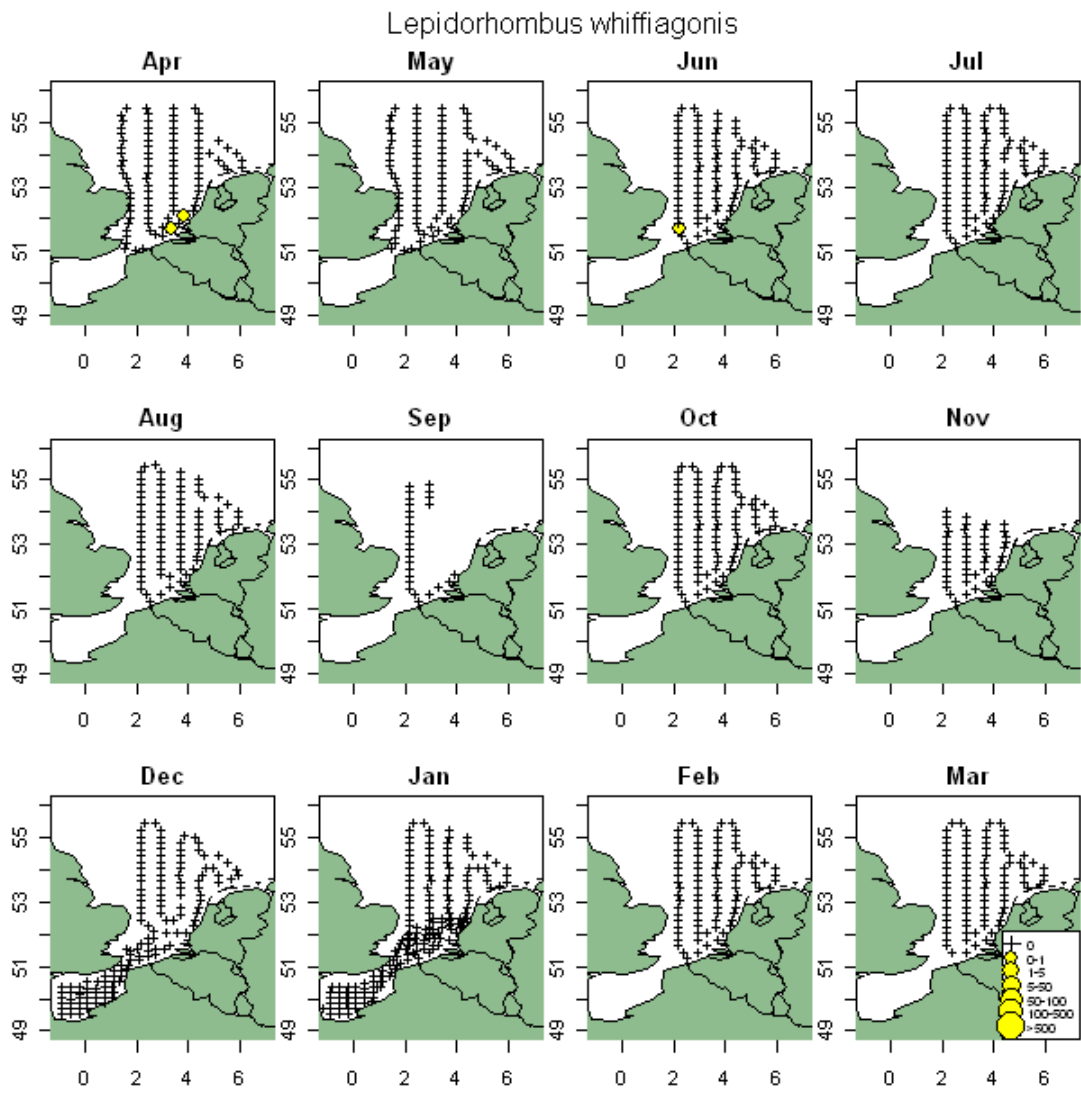


Figure 51b. Spatial and temporal distribution of stage 2 megrim eggs.



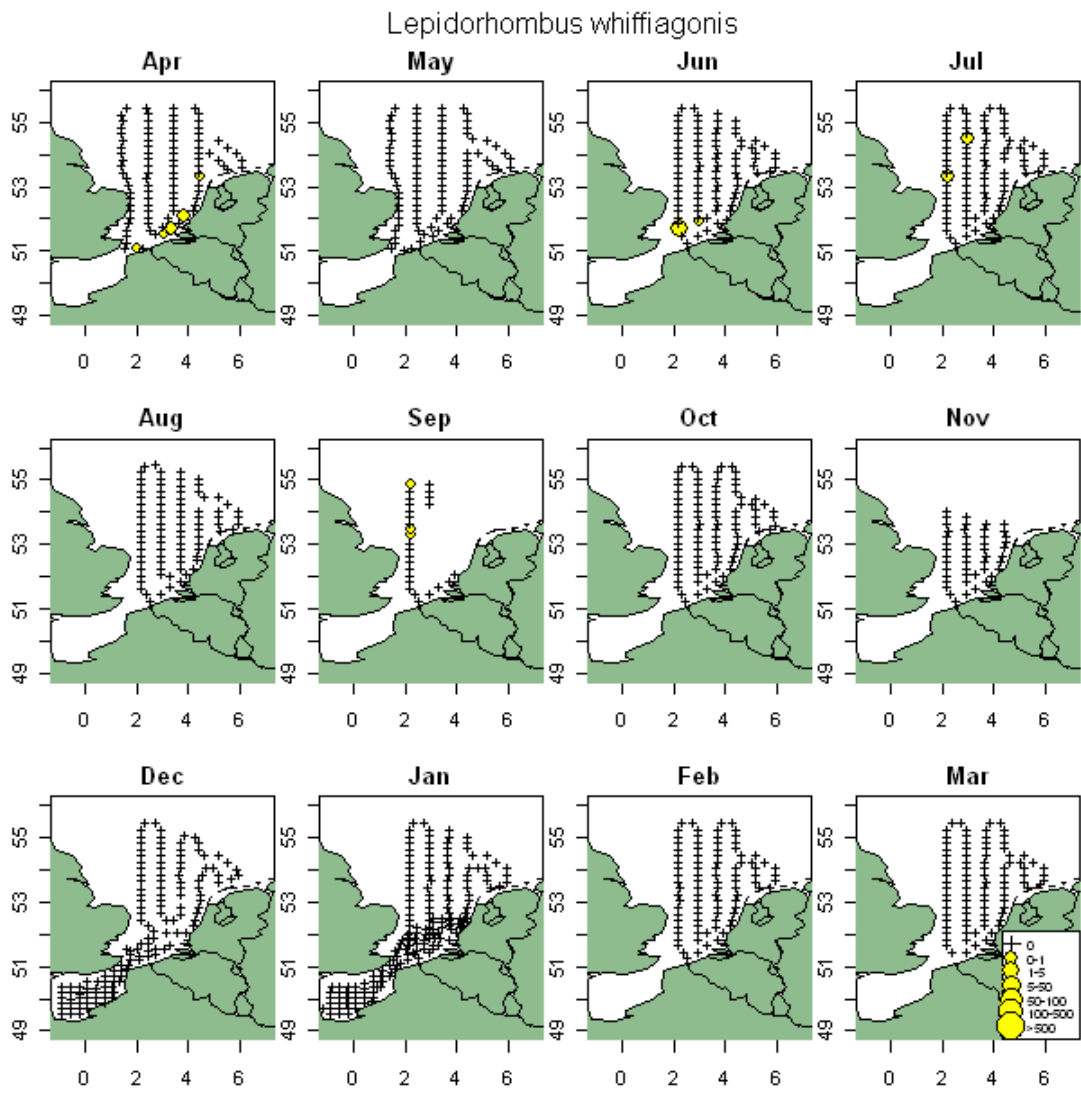


Figure 51c. Spatial and temporal distribution of stage 3 megrim eggs.

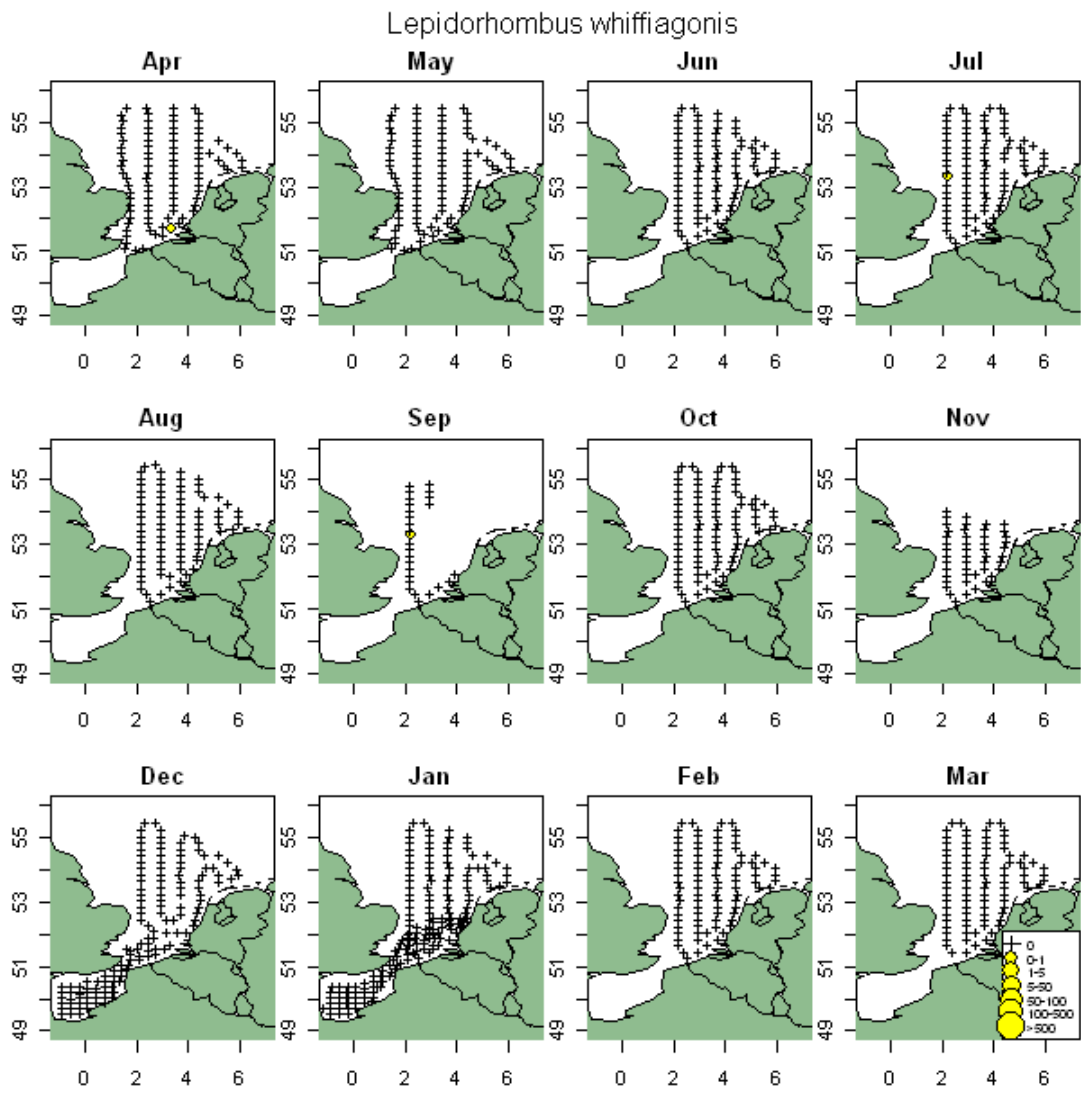


Figure 51d. Spatial and temporal distribution of stage 4 megrim eggs.

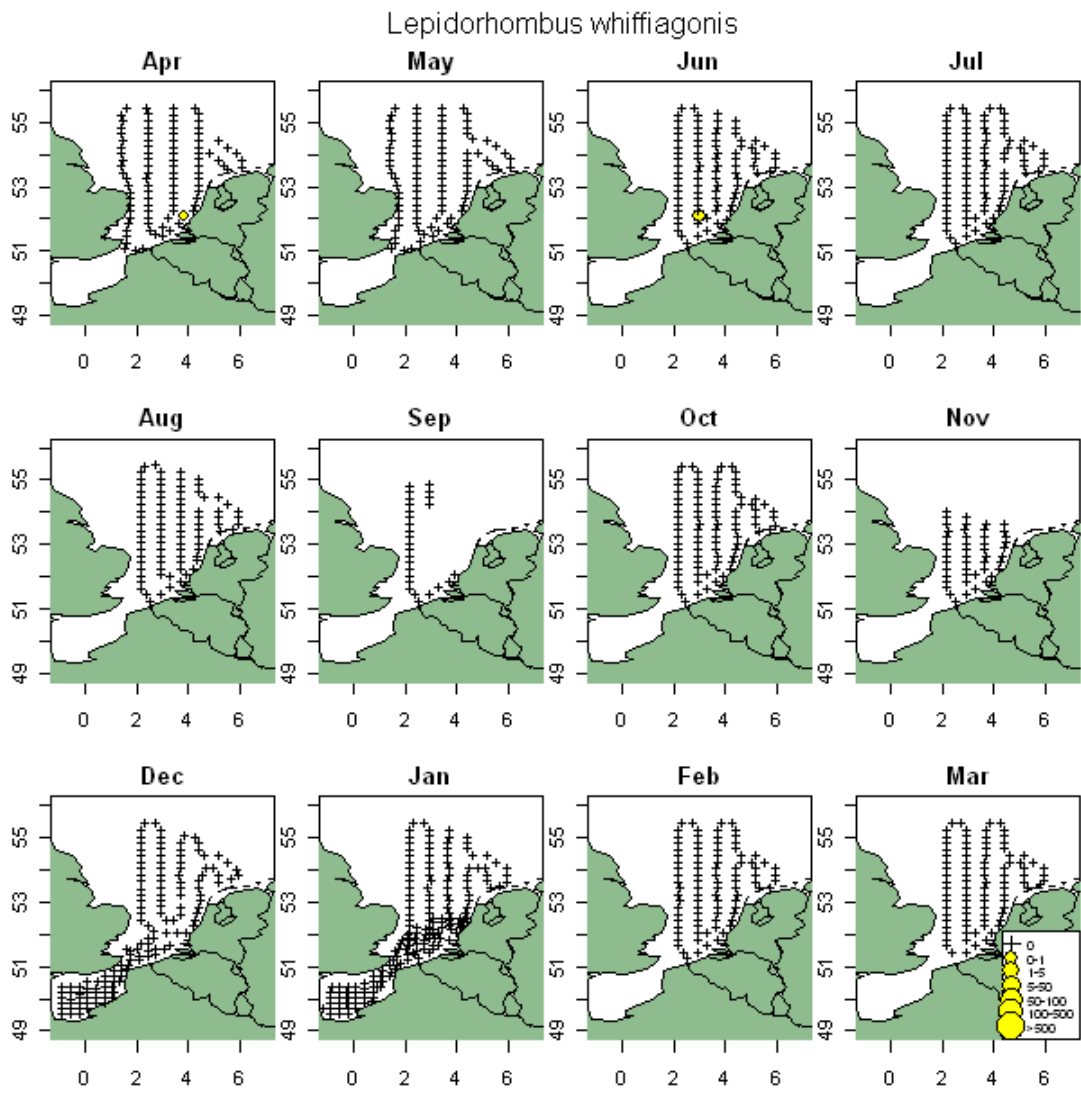


Figure 51e. Spatial and temporal distribution of stage 5 megrim eggs.

**Arnoglossus like**

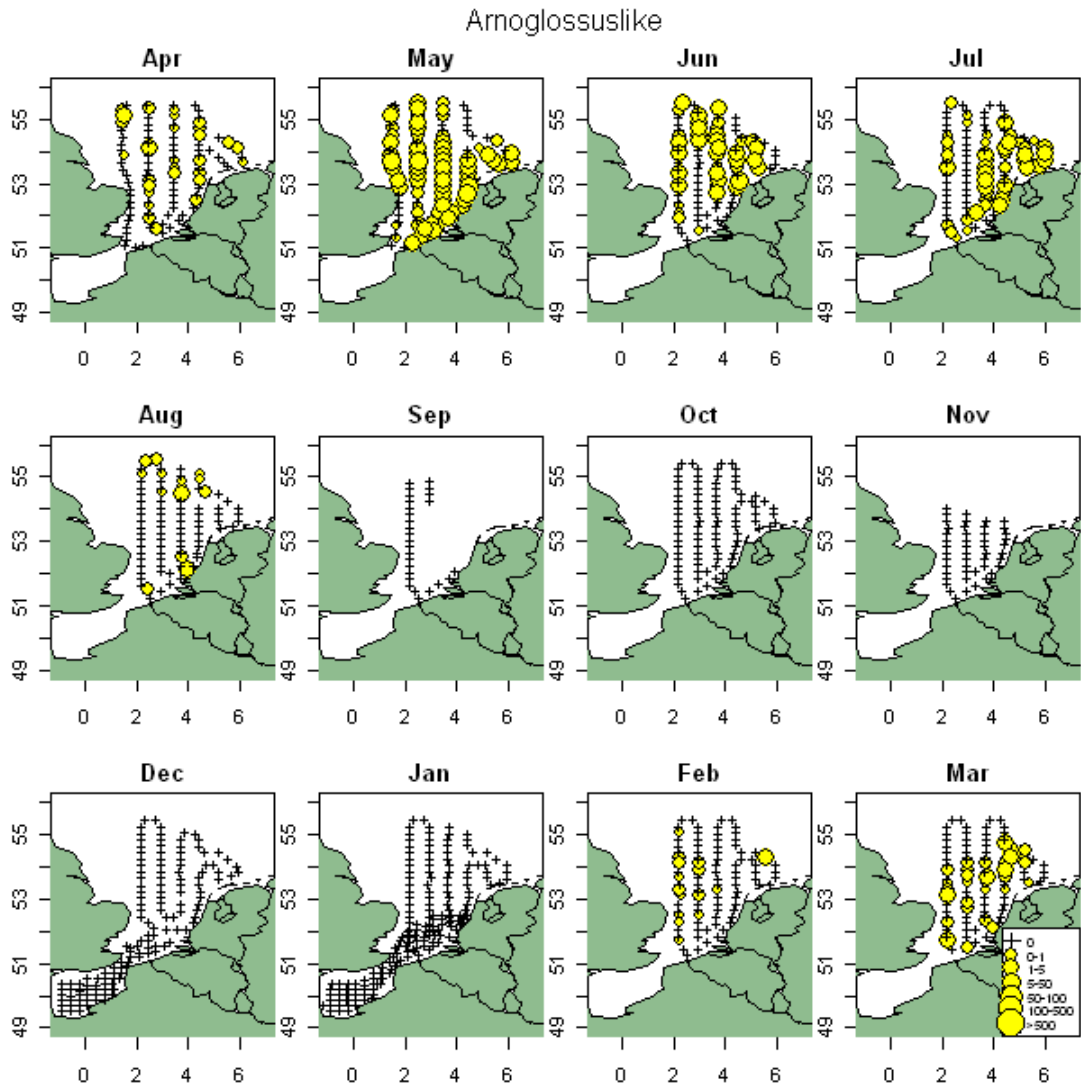


Figure 52a. Spatial and temporal distribution of stage 1 Arnoglossus like eggs.

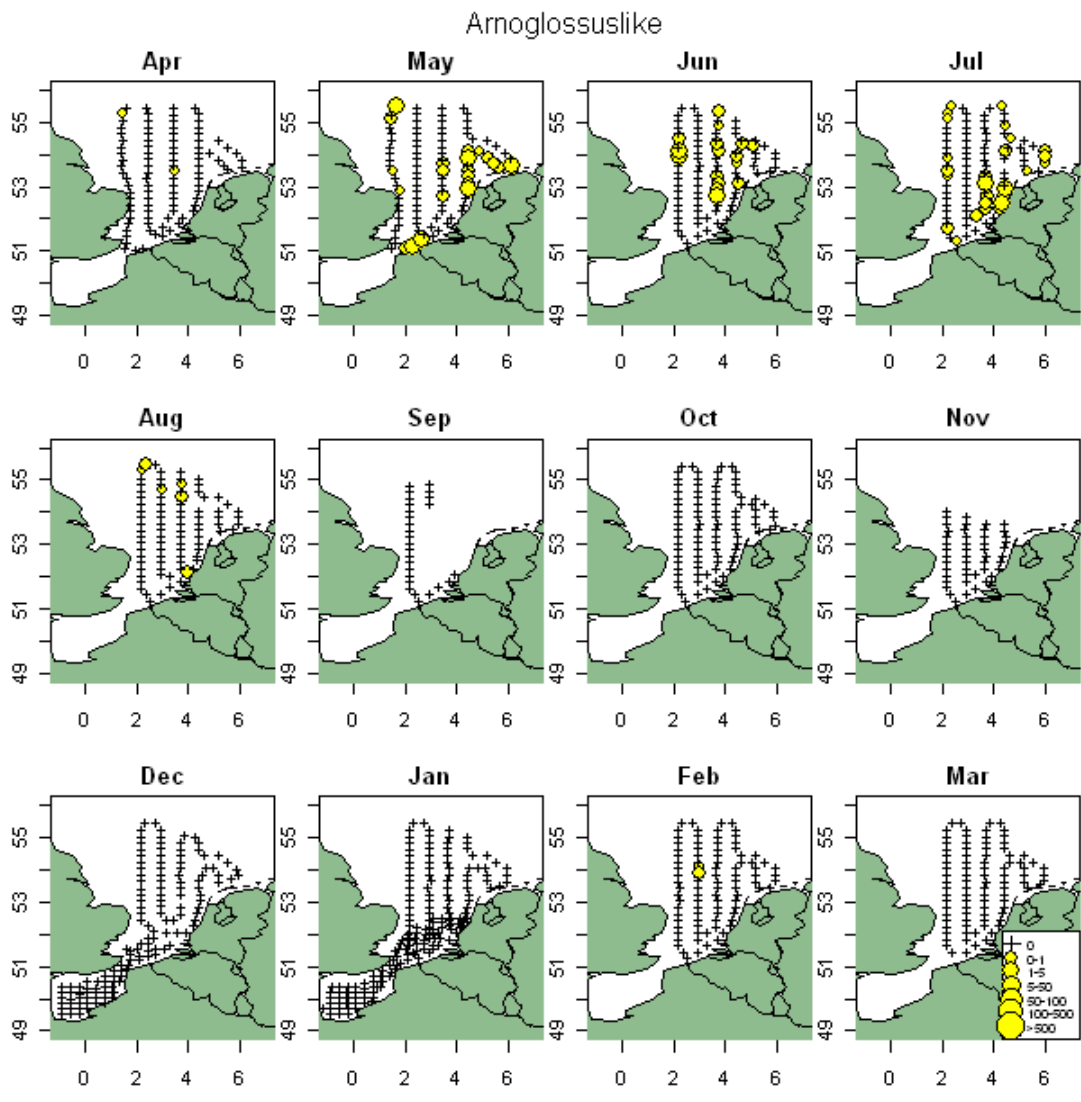


Figure 52b. Spatial and temporal distribution of stage 2 Arnoglossus like eggs.

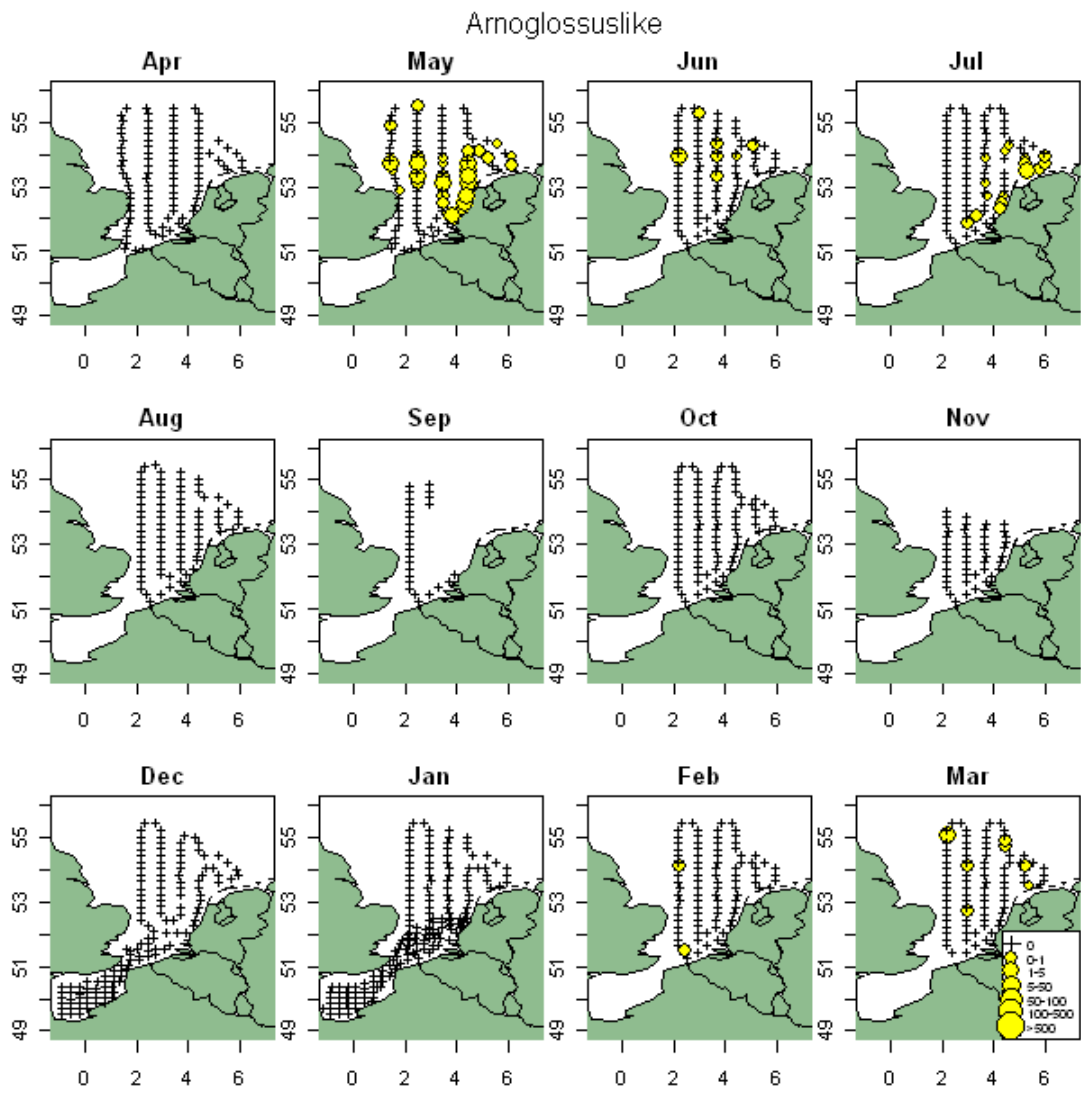


Figure 52c. Spatial and temporal distribution of stage 3 Arnoglossus like eggs.

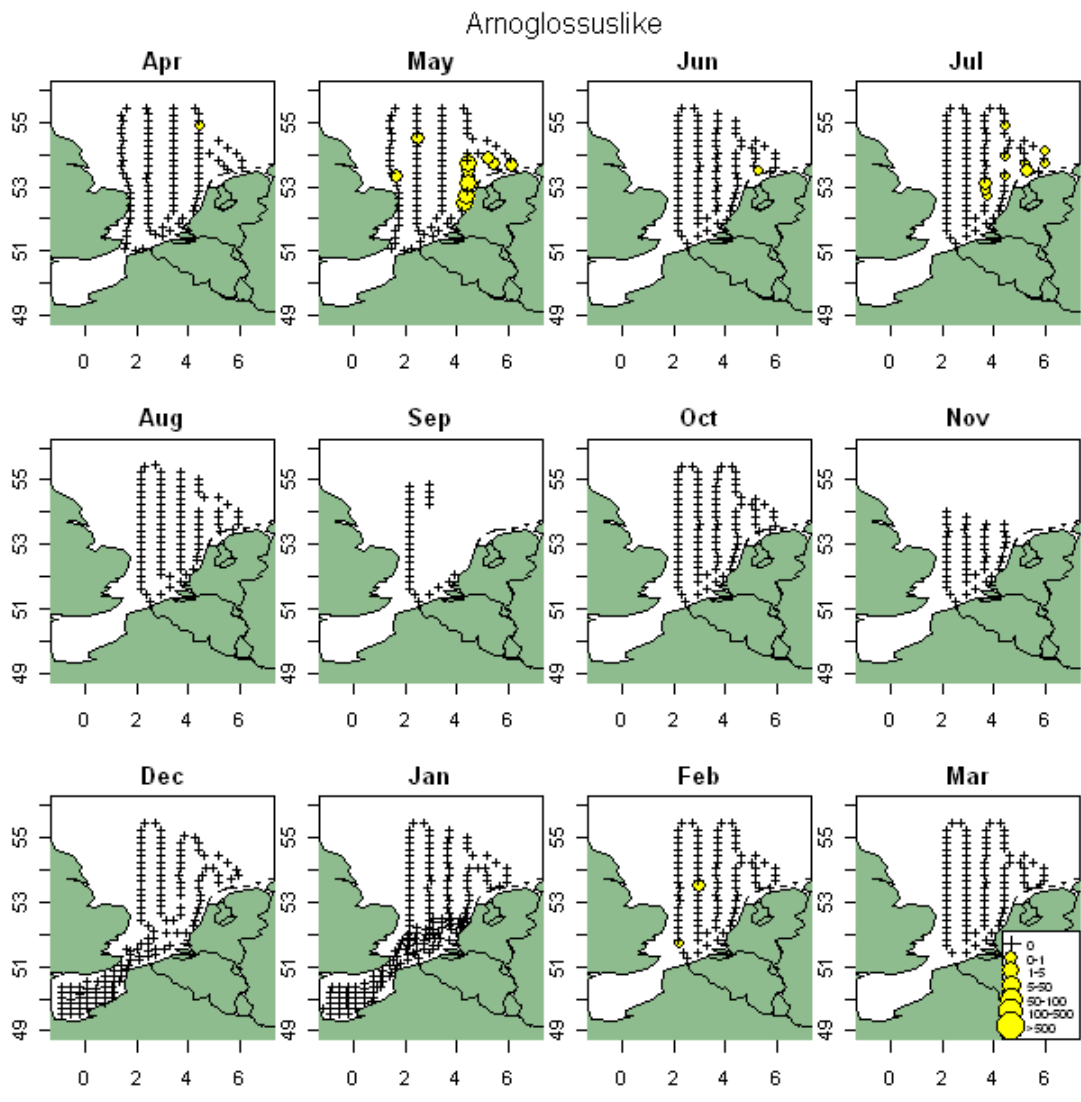


Figure 52d. Spatial and temporal distribution of stage 4 Arnoglossus like eggs.

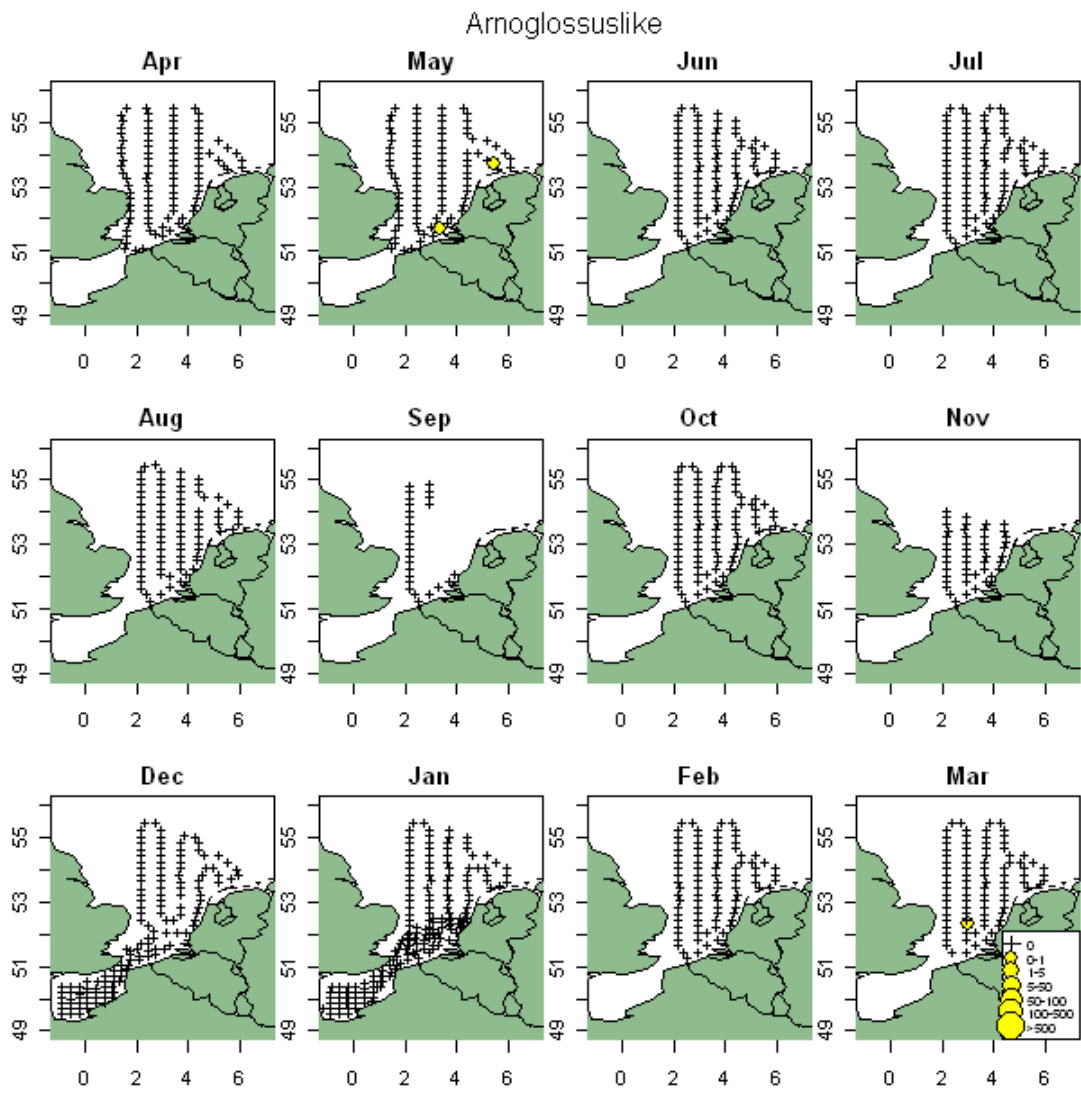


Figure 52e. Spatial and temporal distribution of stage 5 Arnoglossus like eggs.



**Scaldfish *Arnoglossus laterna***

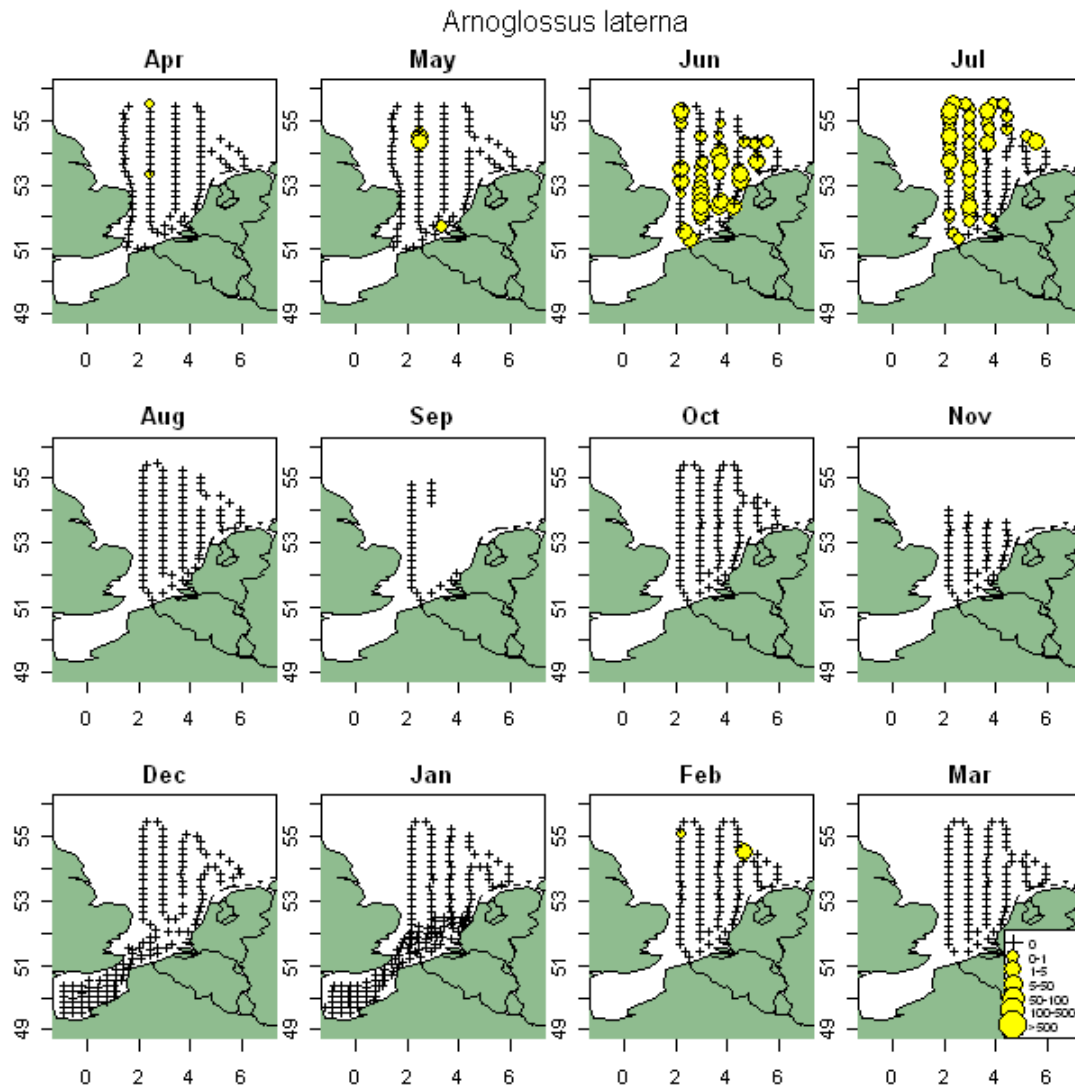


Figure 53a. Spatial and temporal distribution of stage 1 scaldfish eggs.

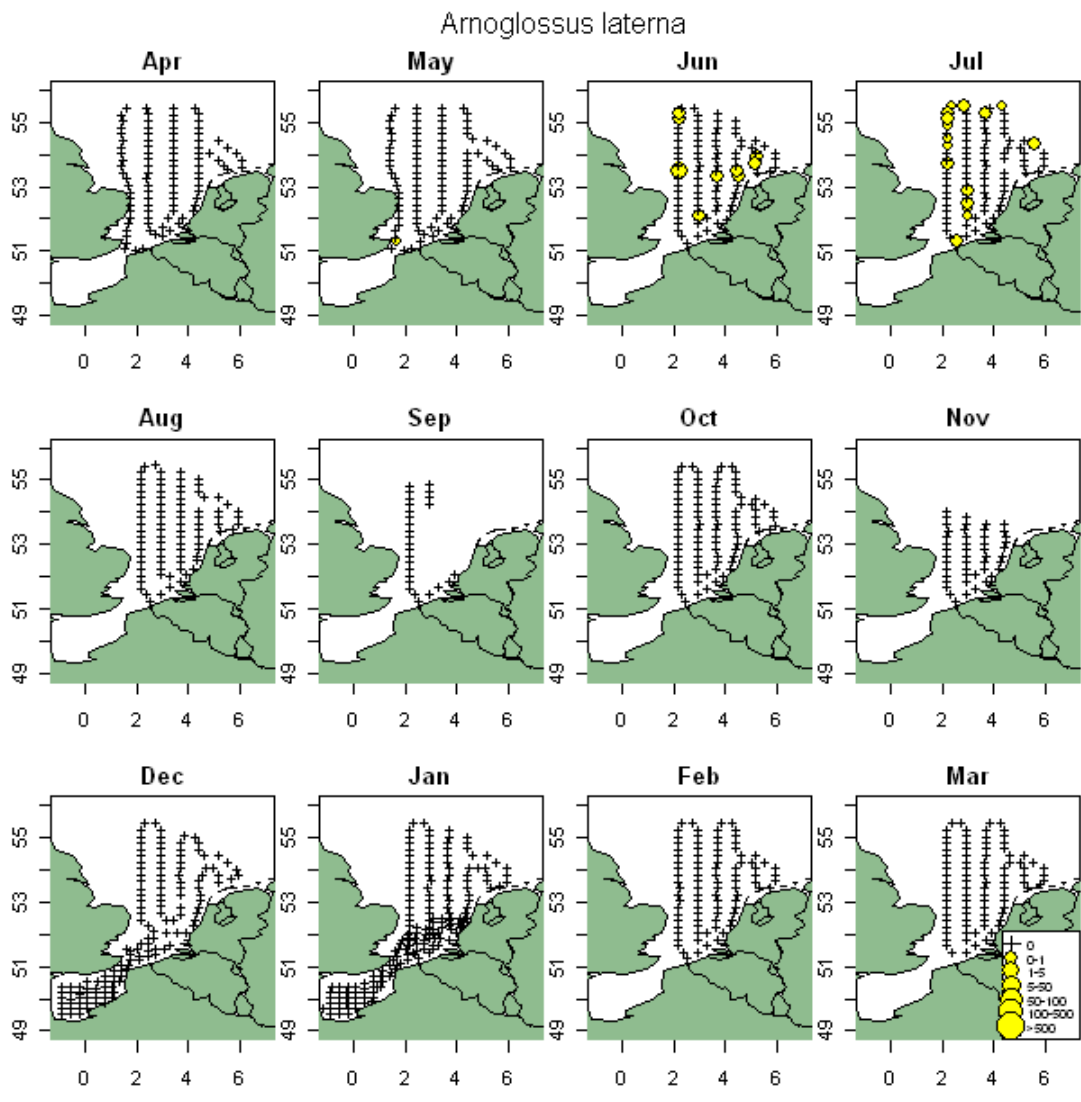


Figure 53b. Spatial and temporal distribution of stage 2 scaldfish eggs.

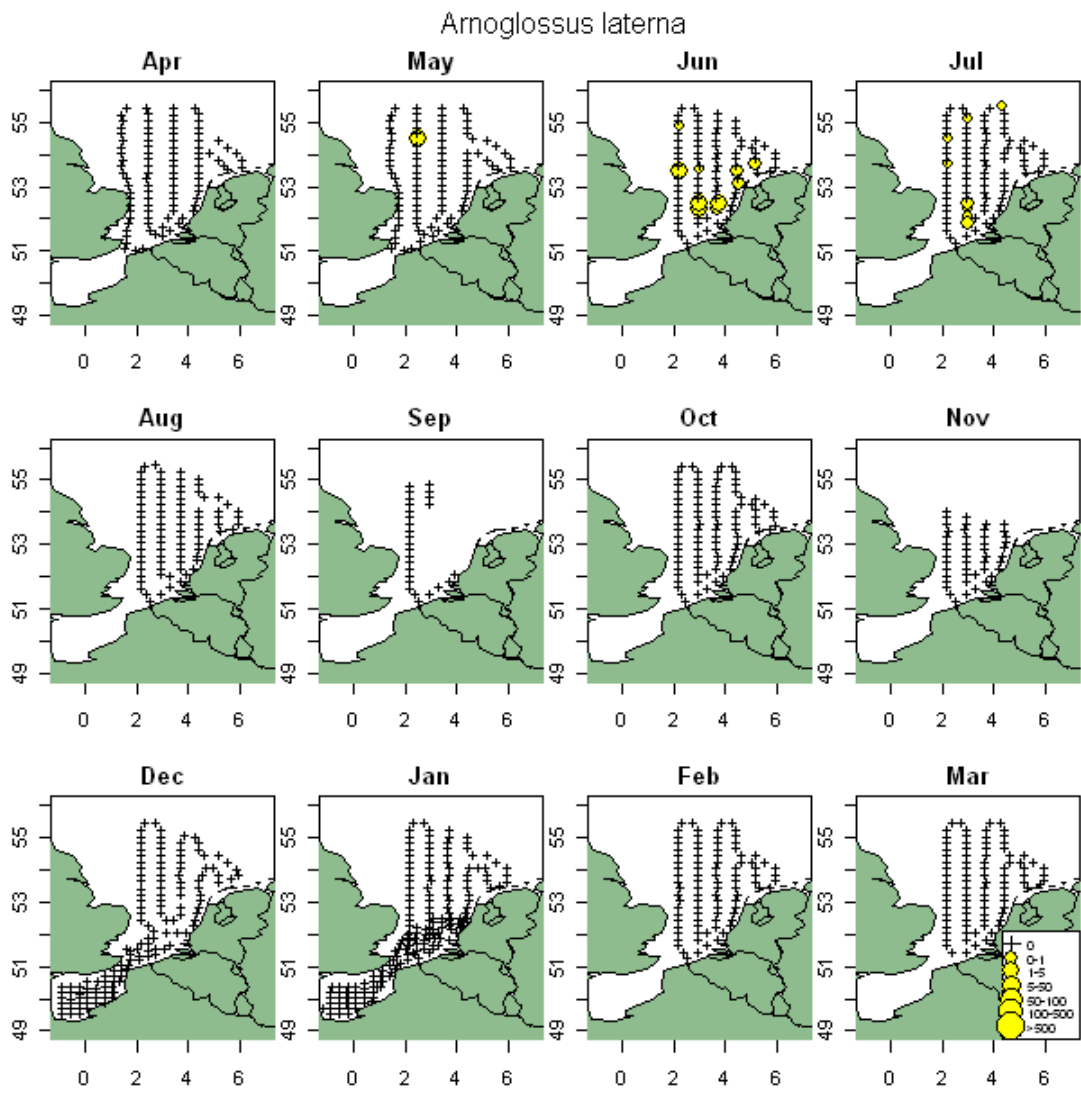


Figure 53c. Spatial and temporal distribution of stage 3 scaldfish eggs.

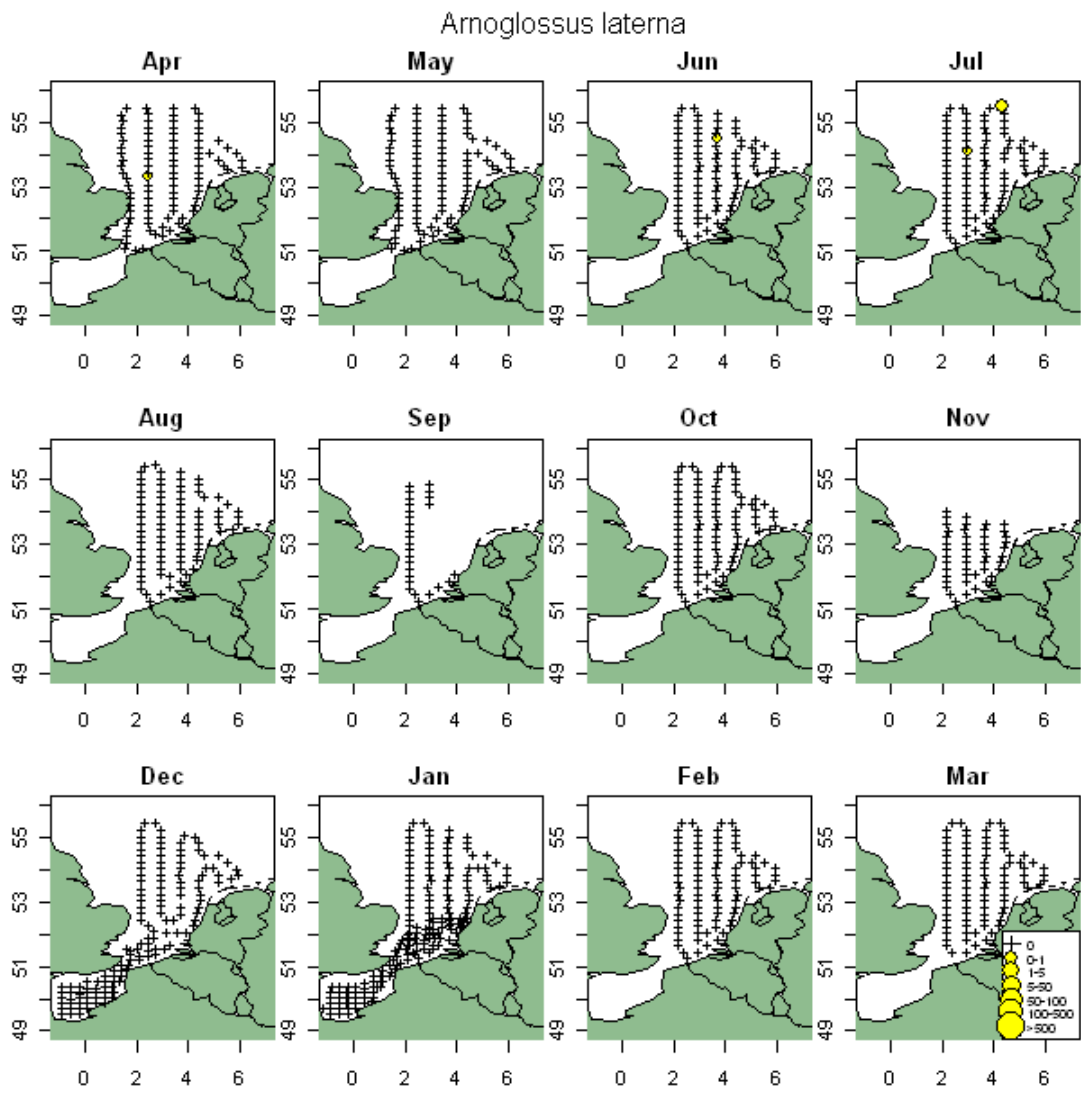


Figure 53d. Spatial and temporal distribution of stage 4 scaldfish eggs.

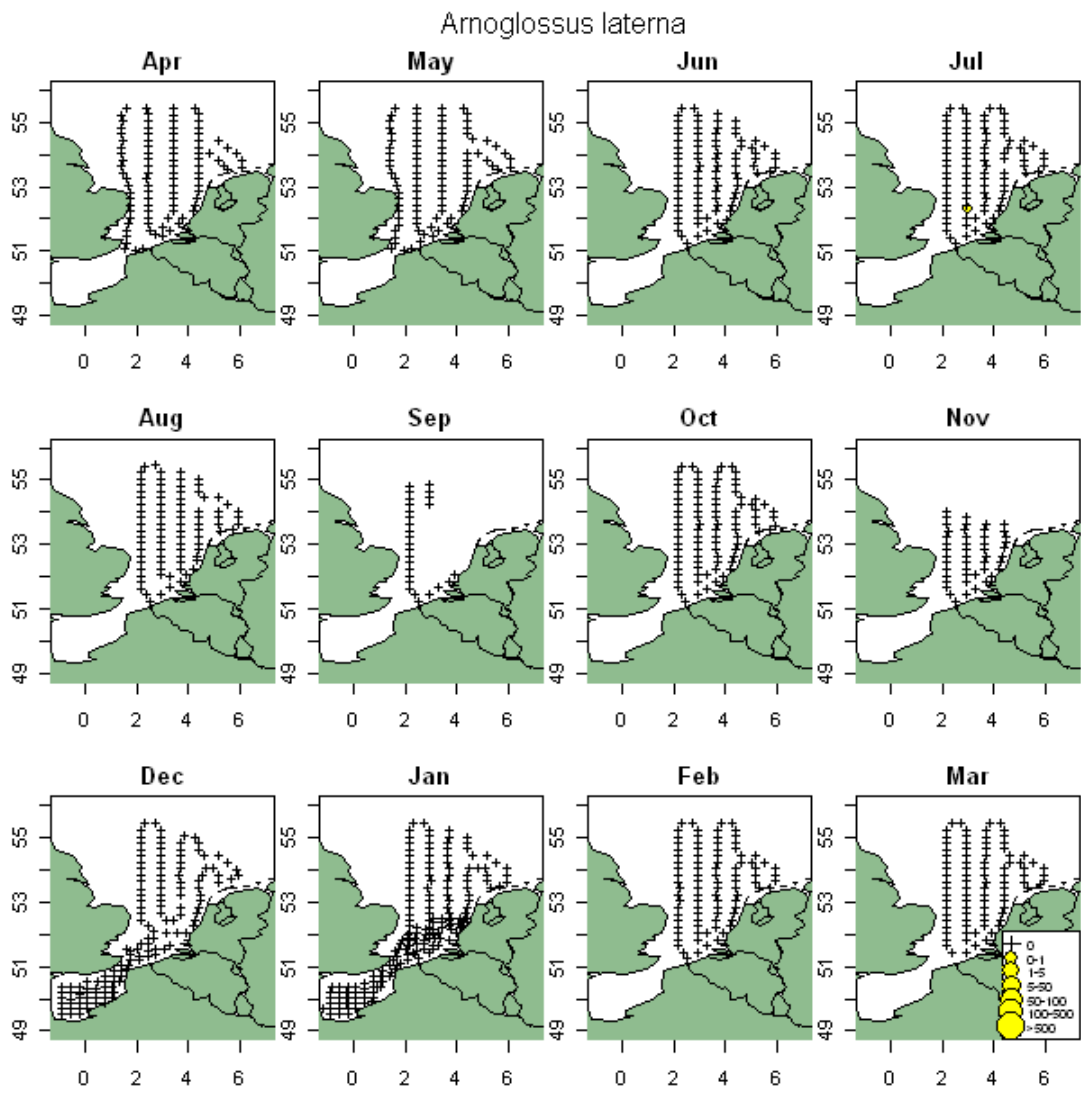


Figure 53e. Spatial and temporal distribution of stage 5 scaldfish eggs.

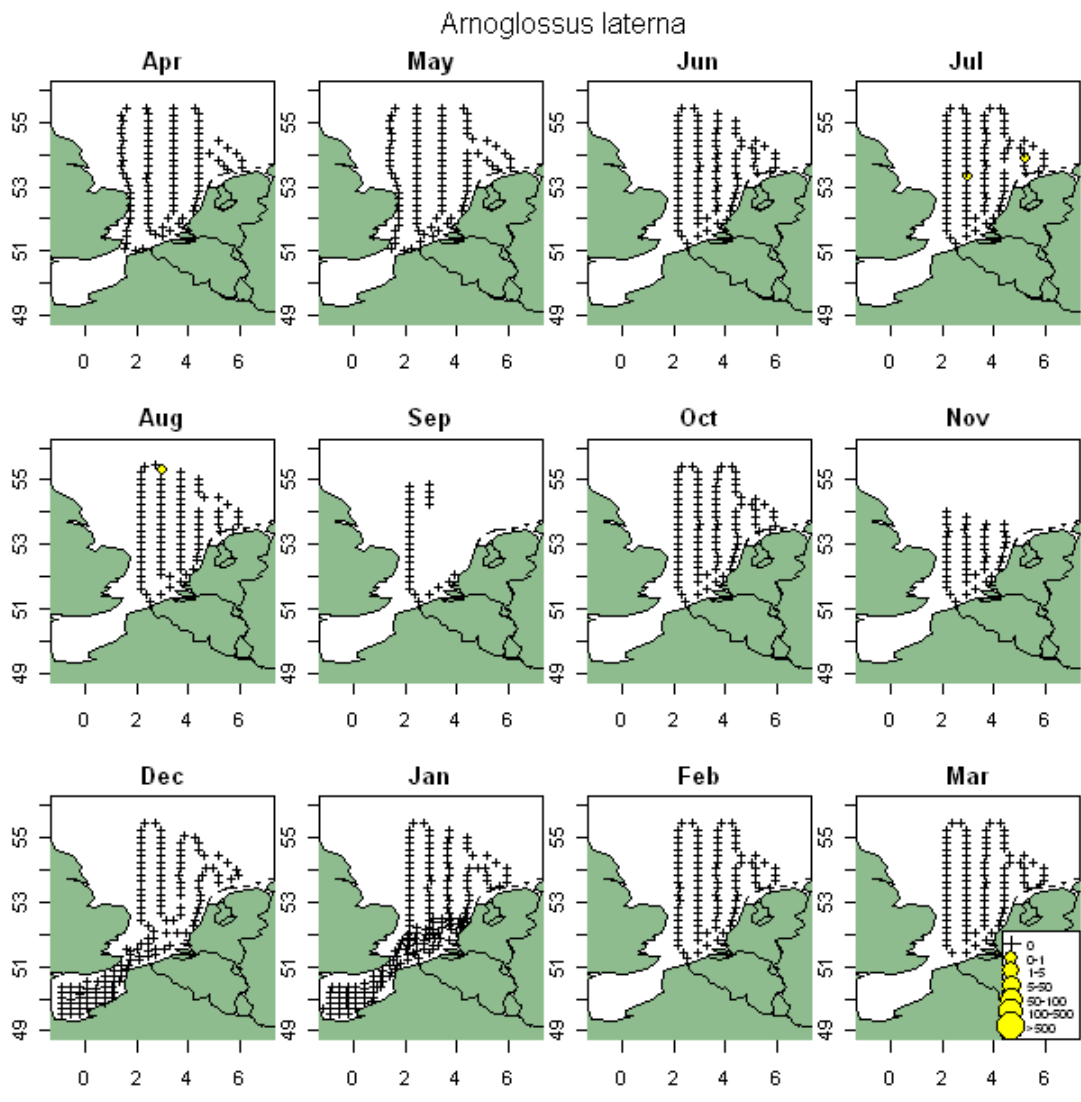


Figure 53f. Spatial and temporal distribution of yolk sac scaldfish larvae.

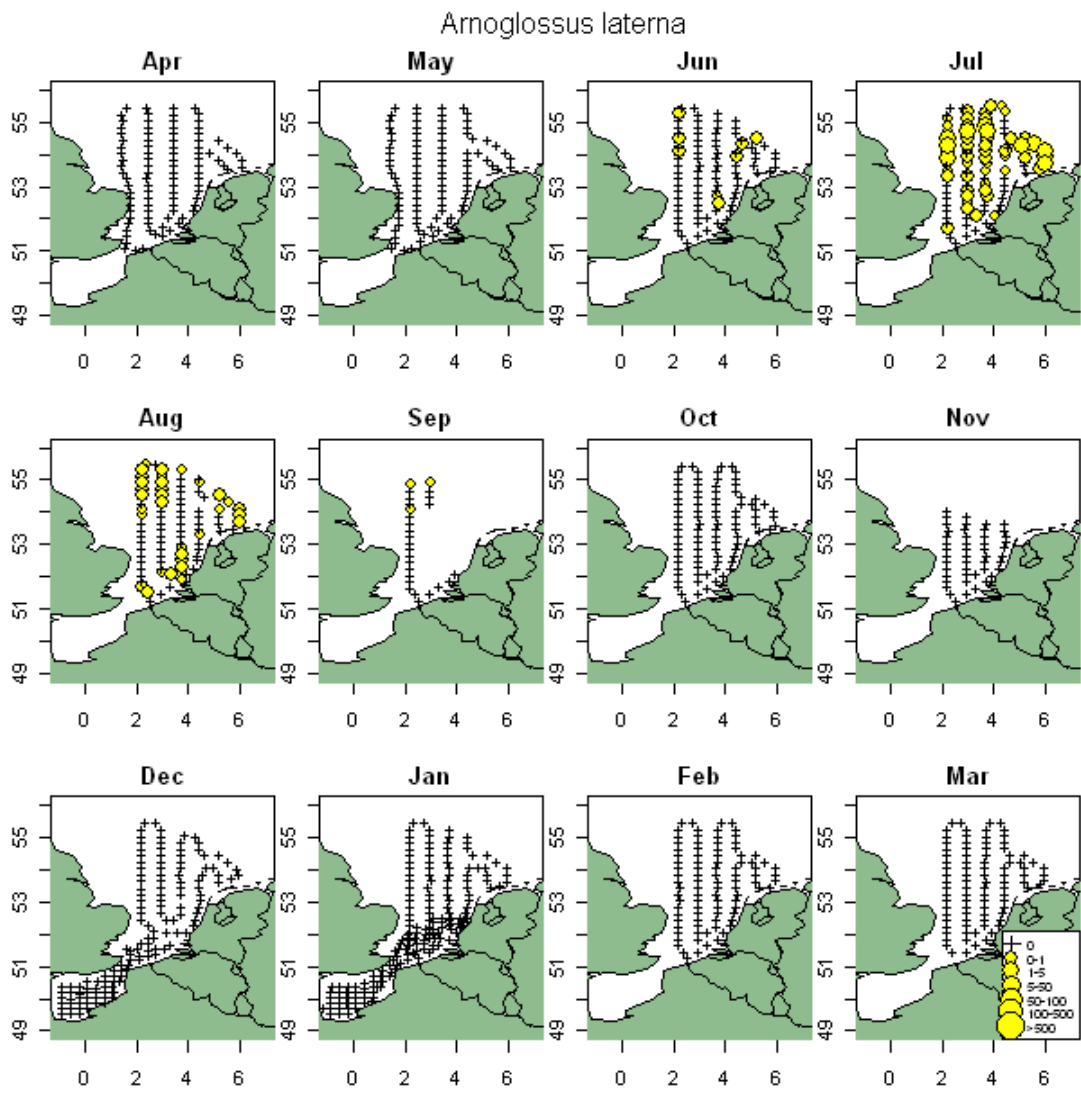


Figure 53g. Spatial and temporal distribution of non-yolk sac scaldfish larvae.

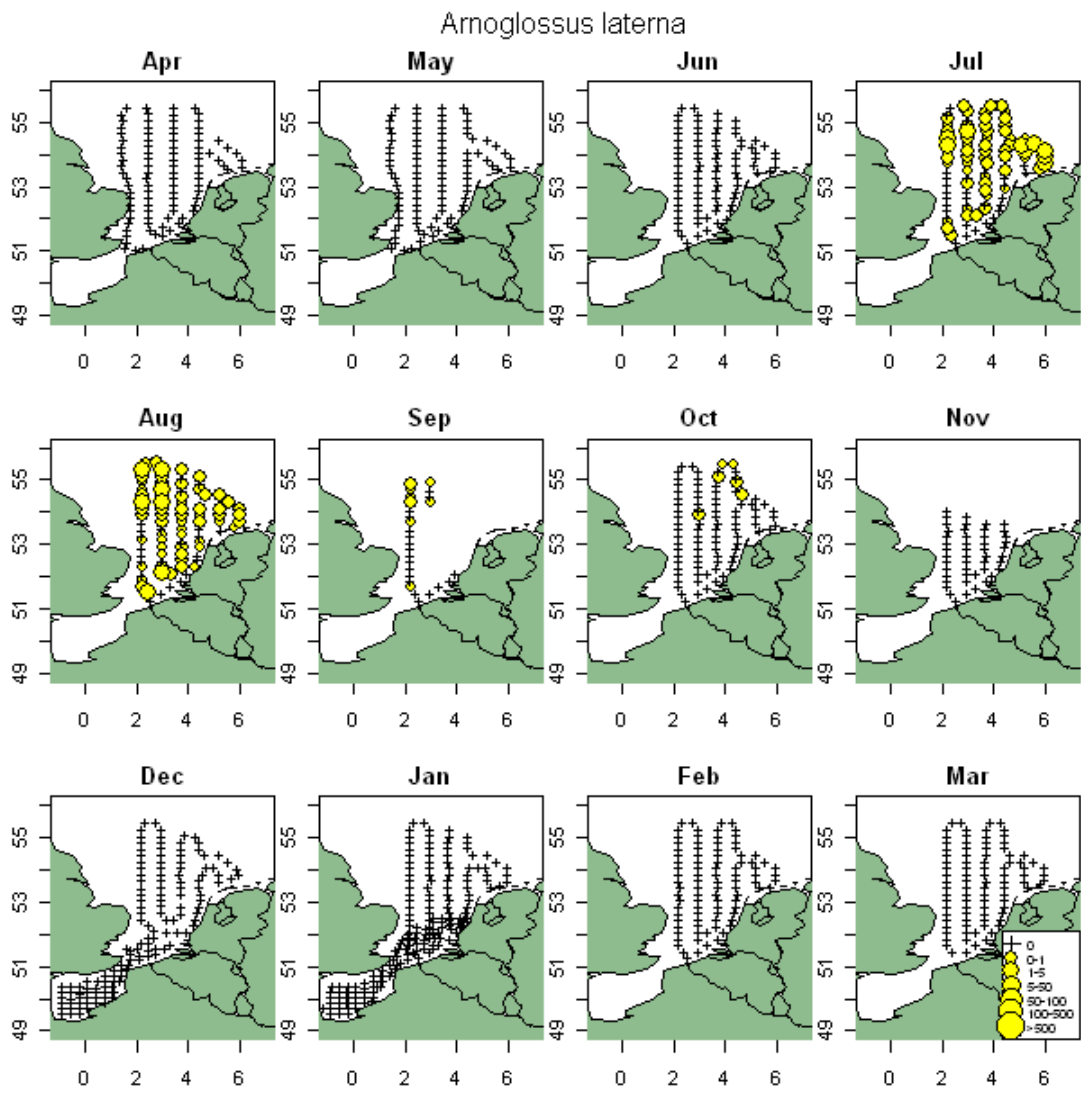


Figure 53h. Spatial and temporal distribution of bent notochord stage scaldfish larvae.



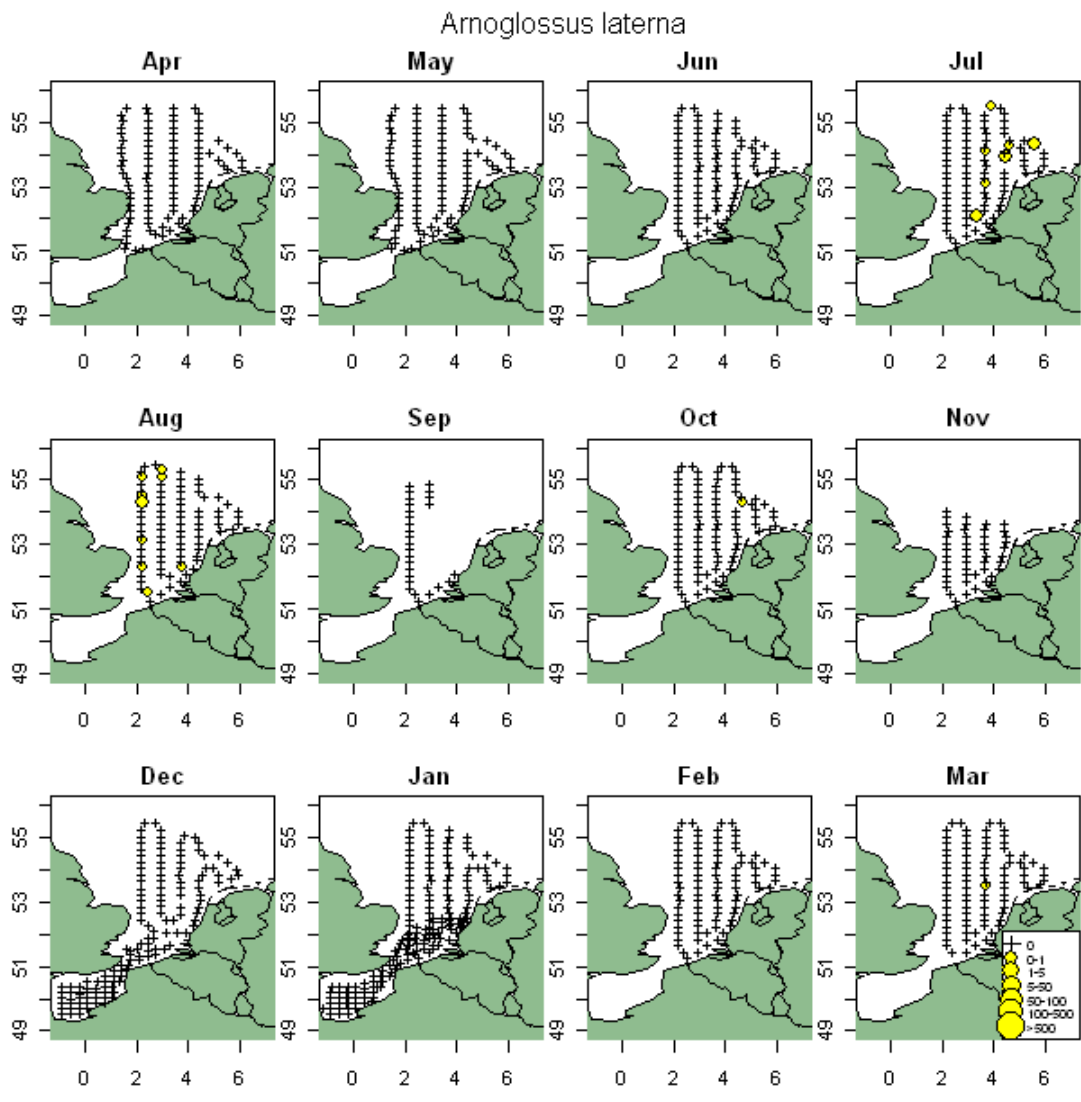


Figure 53i. Spatial and temporal distribution of metamorphosing scaldfish larvae.

## Pleuronectidae

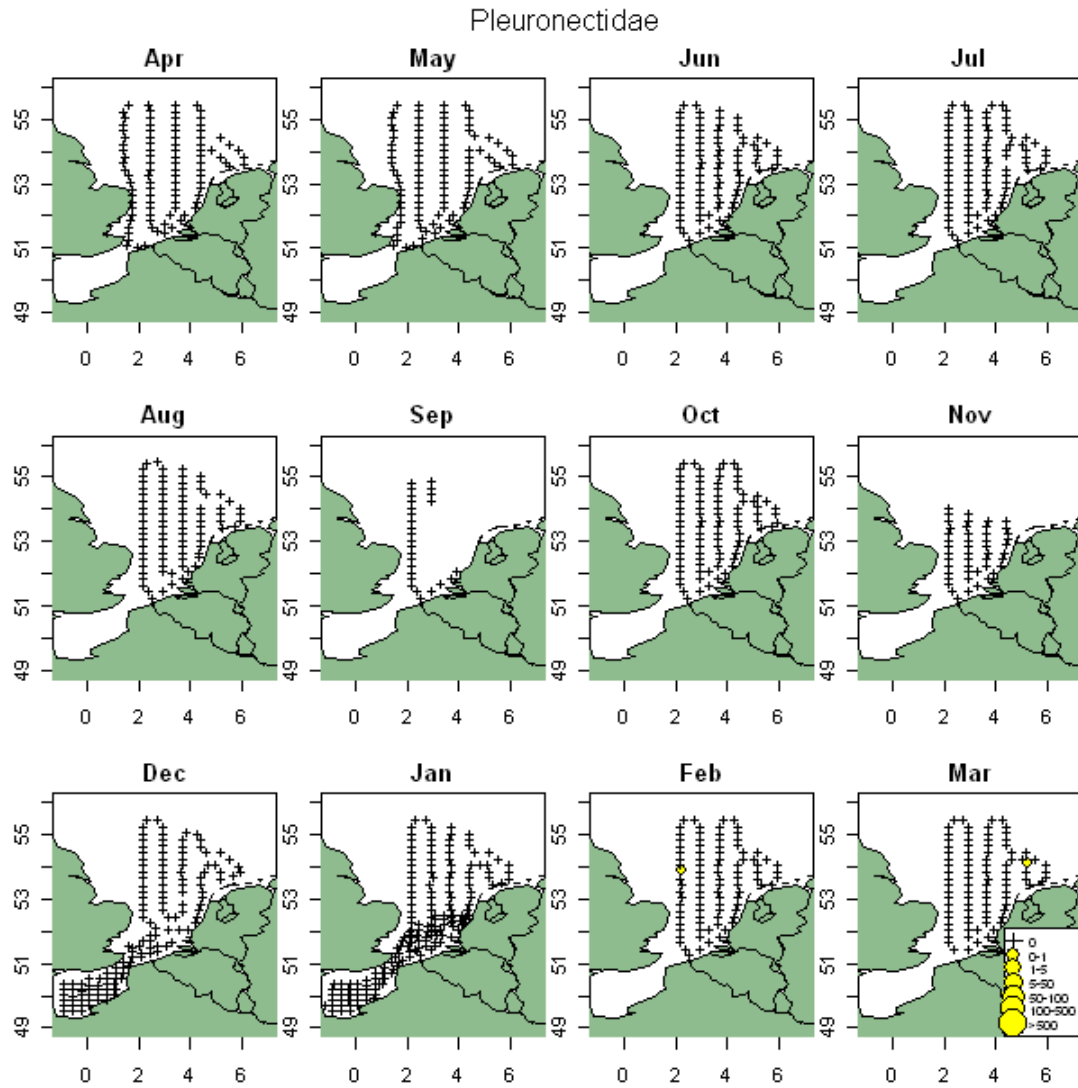


Figure 54a. Spatial and temporal distribution of yolk sac pleuronectidae larvae.

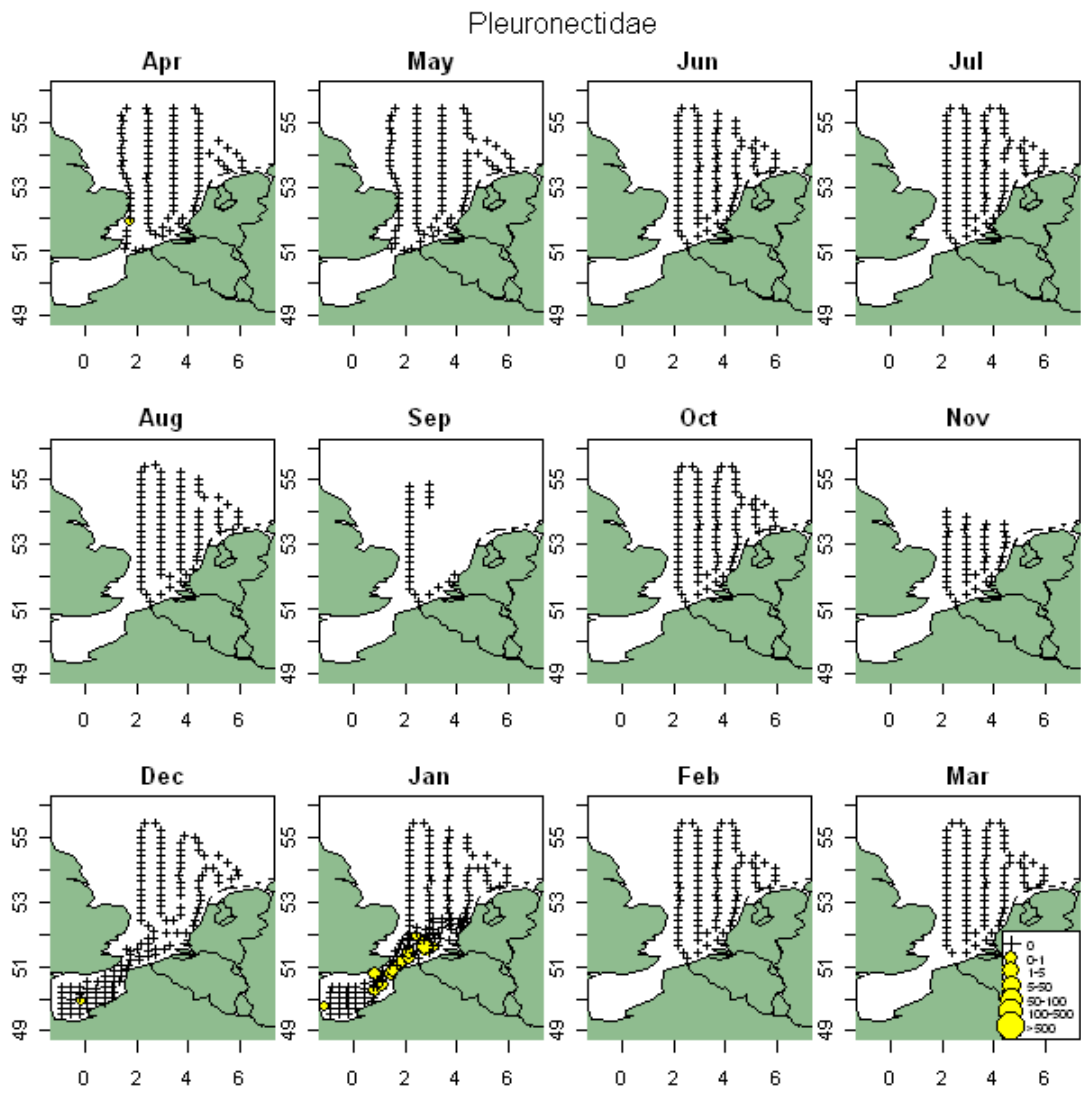


Figure 54b. Spatial and temporal distribution of non-yolk sac pleuronectidae larvae.

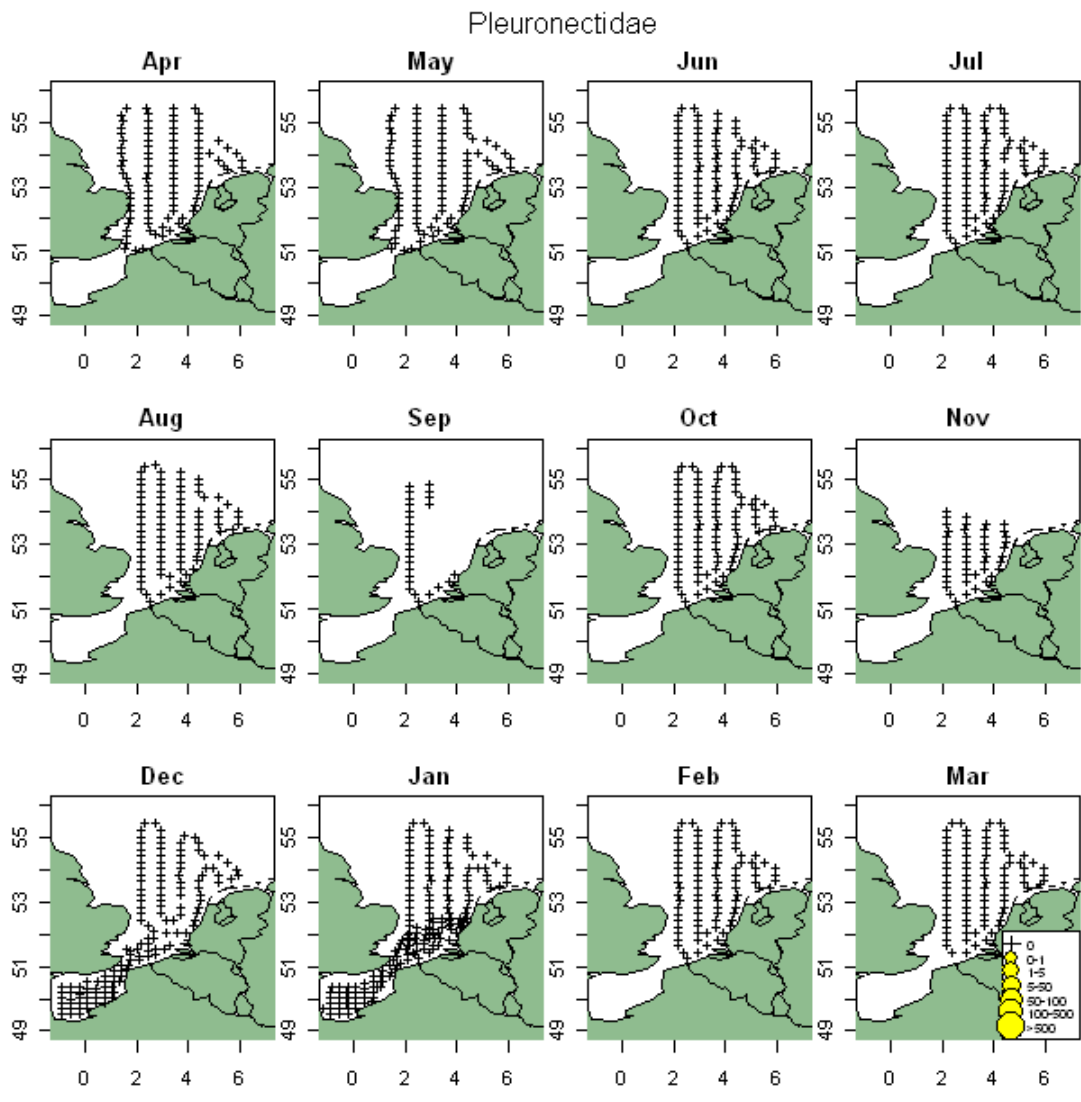


Figure 54c. Spatial and temporal distribution of bent notochord stage pleuronectidae larvae.

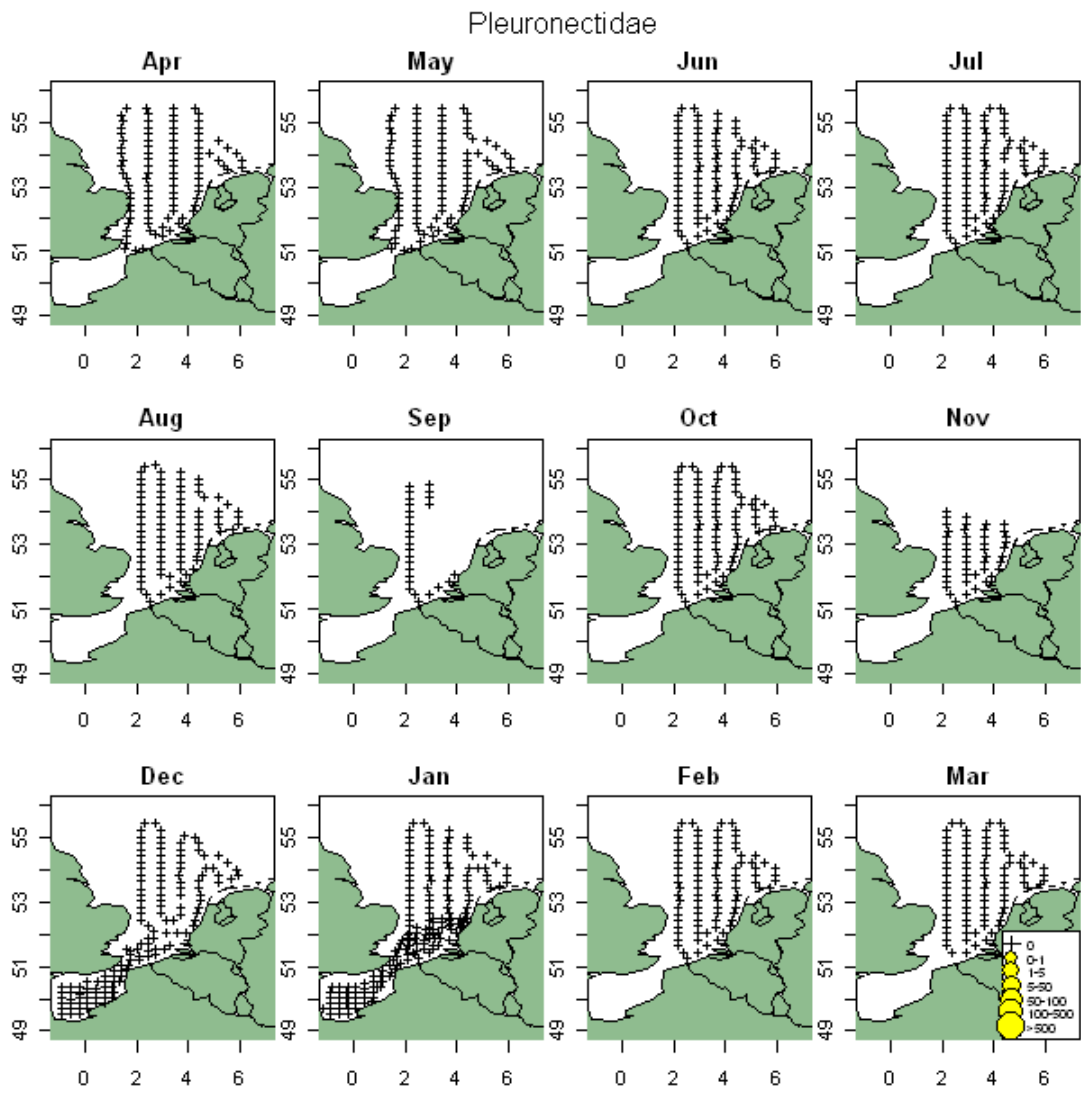


Figure 54d. Spatial and temporal distribution of metamorphosing pleuronectidae larvae.

**Long rough dab *Hippoglossoides platessoides***

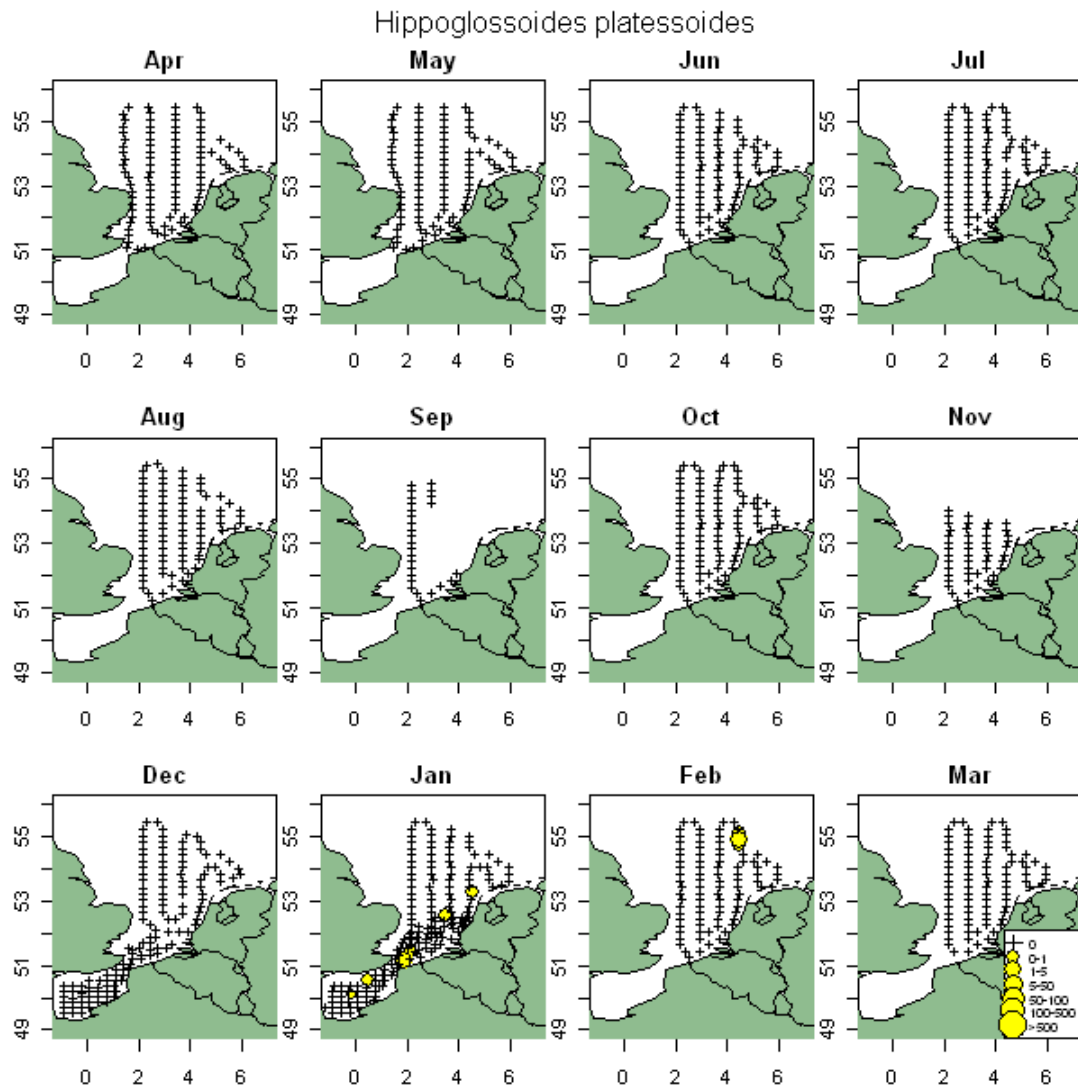


Figure 55a. Spatial and temporal distribution of stage 1 long rough dab eggs.

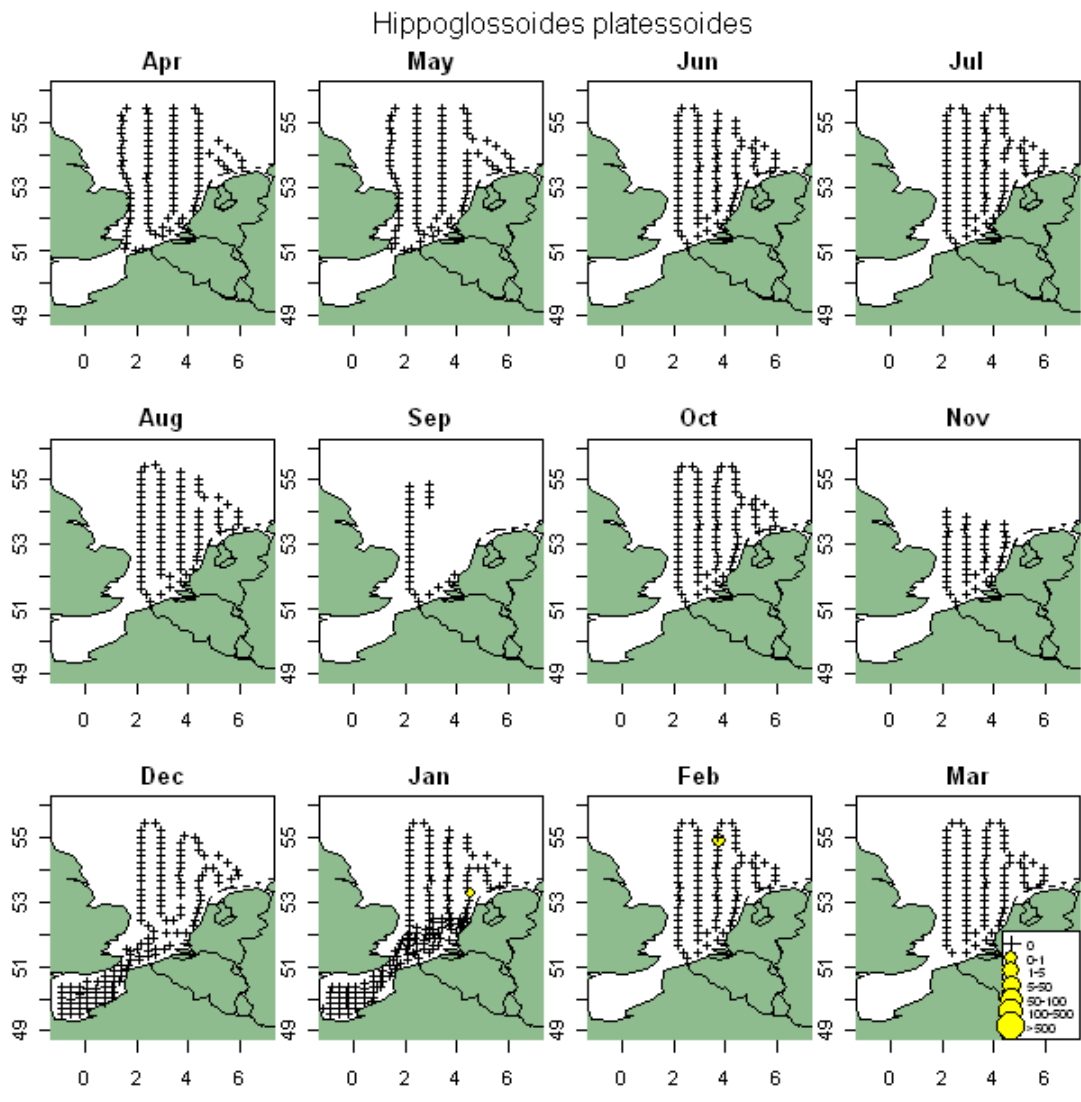


Figure 55b. Spatial and temporal distribution of stage 2 long rough dab eggs.

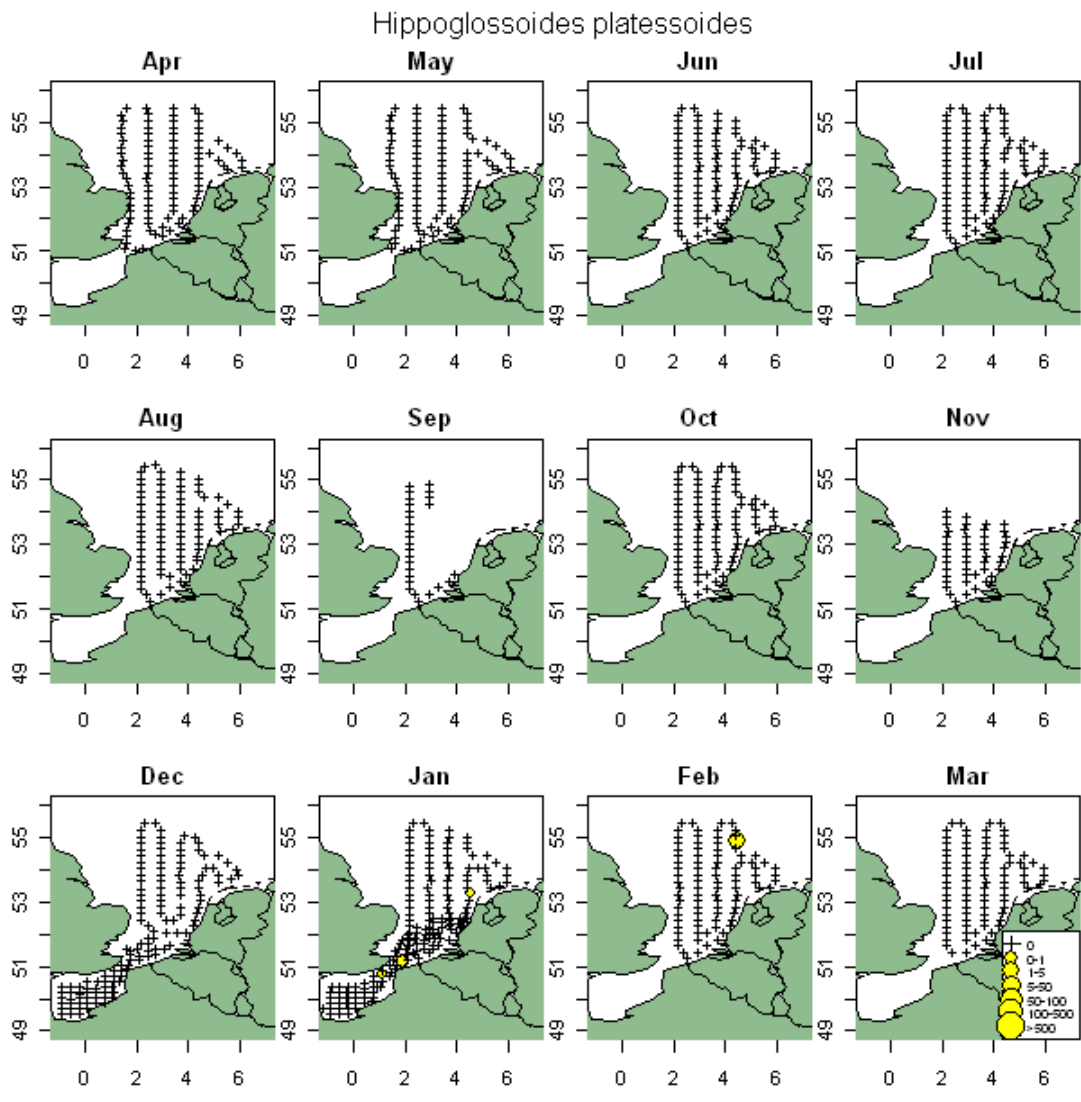


Figure 55c. Spatial and temporal distribution of stage 3 long rough dab eggs.



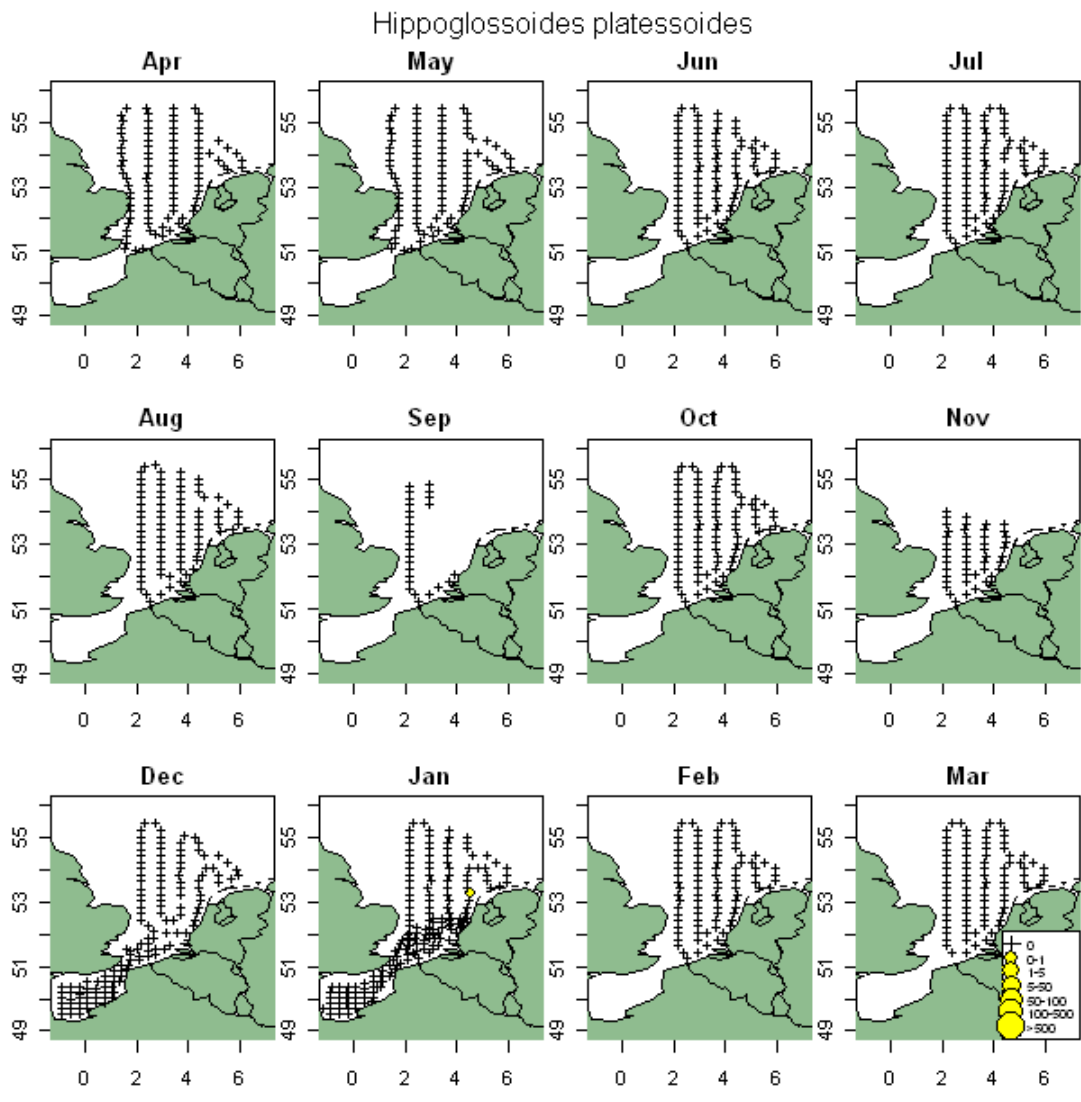


Figure 55d. Spatial and temporal distribution of stage 4 long rough dab eggs.

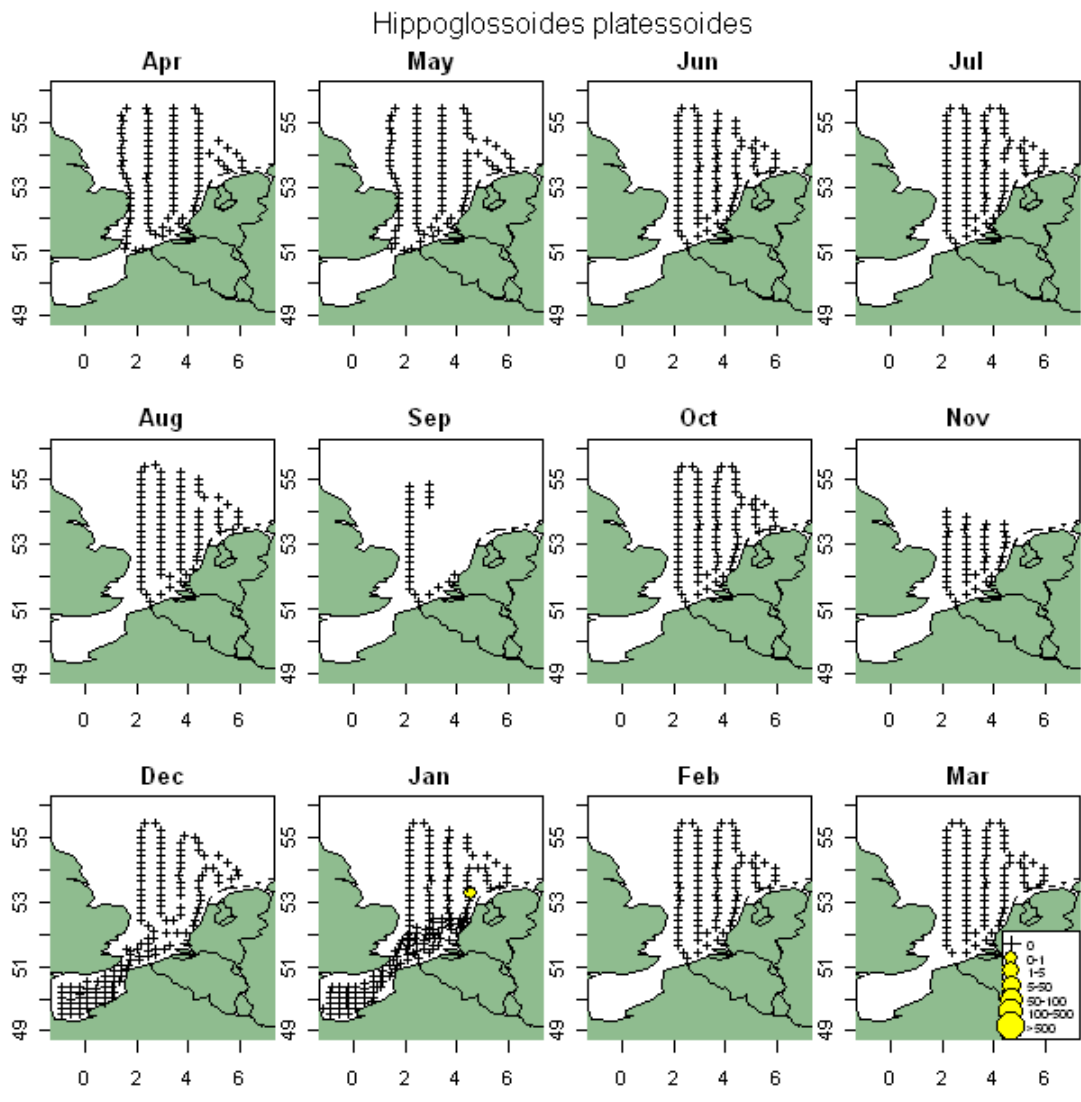


Figure 55e. Spatial and temporal distribution of stage 5 long rough dab eggs.

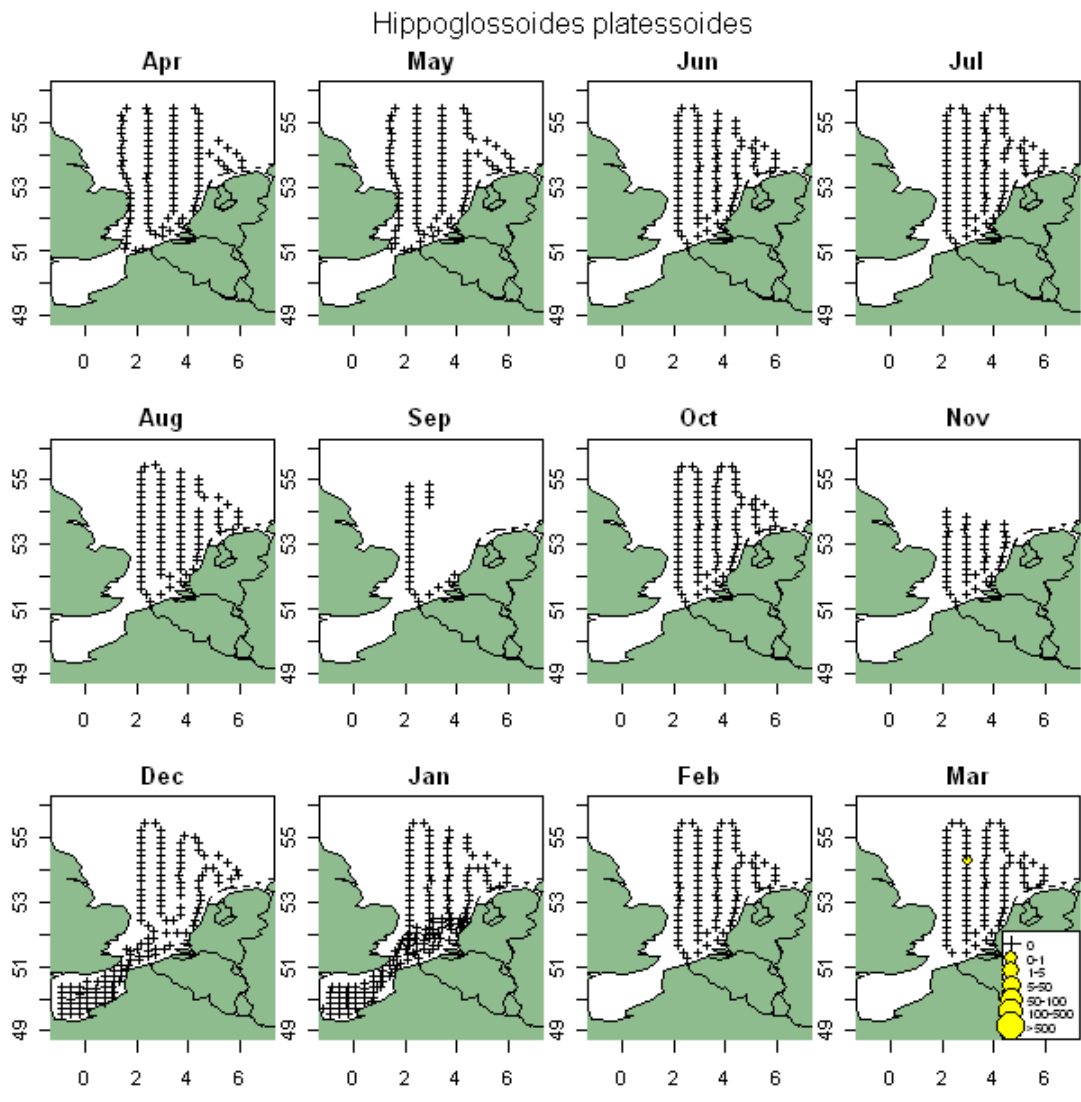


Figure 55f. Spatial and temporal distribution of yolk sac long rough dab larvae.

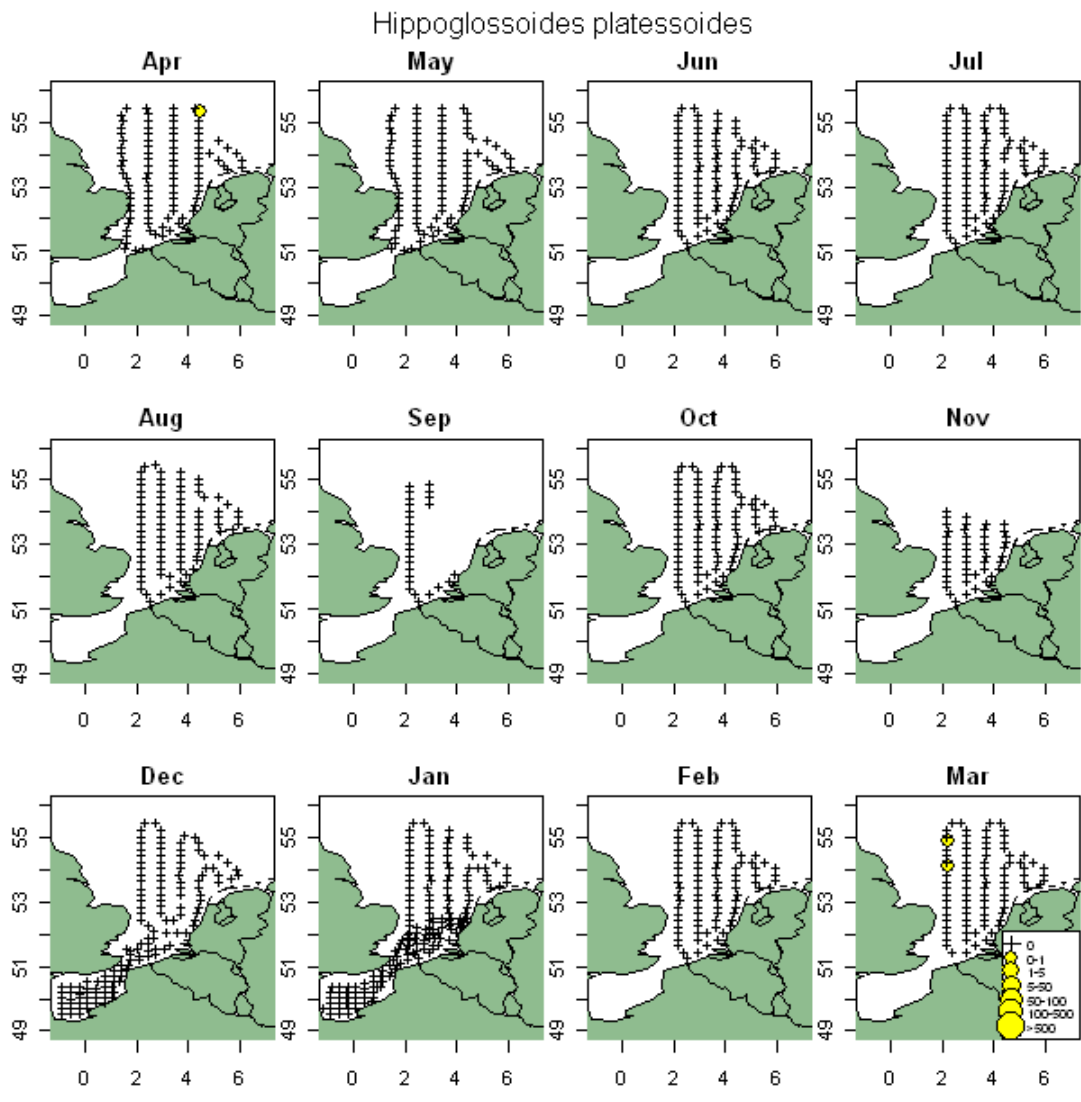


Figure 55g. Spatial and temporal distribution of non-yolk sac long rough dab larvae.

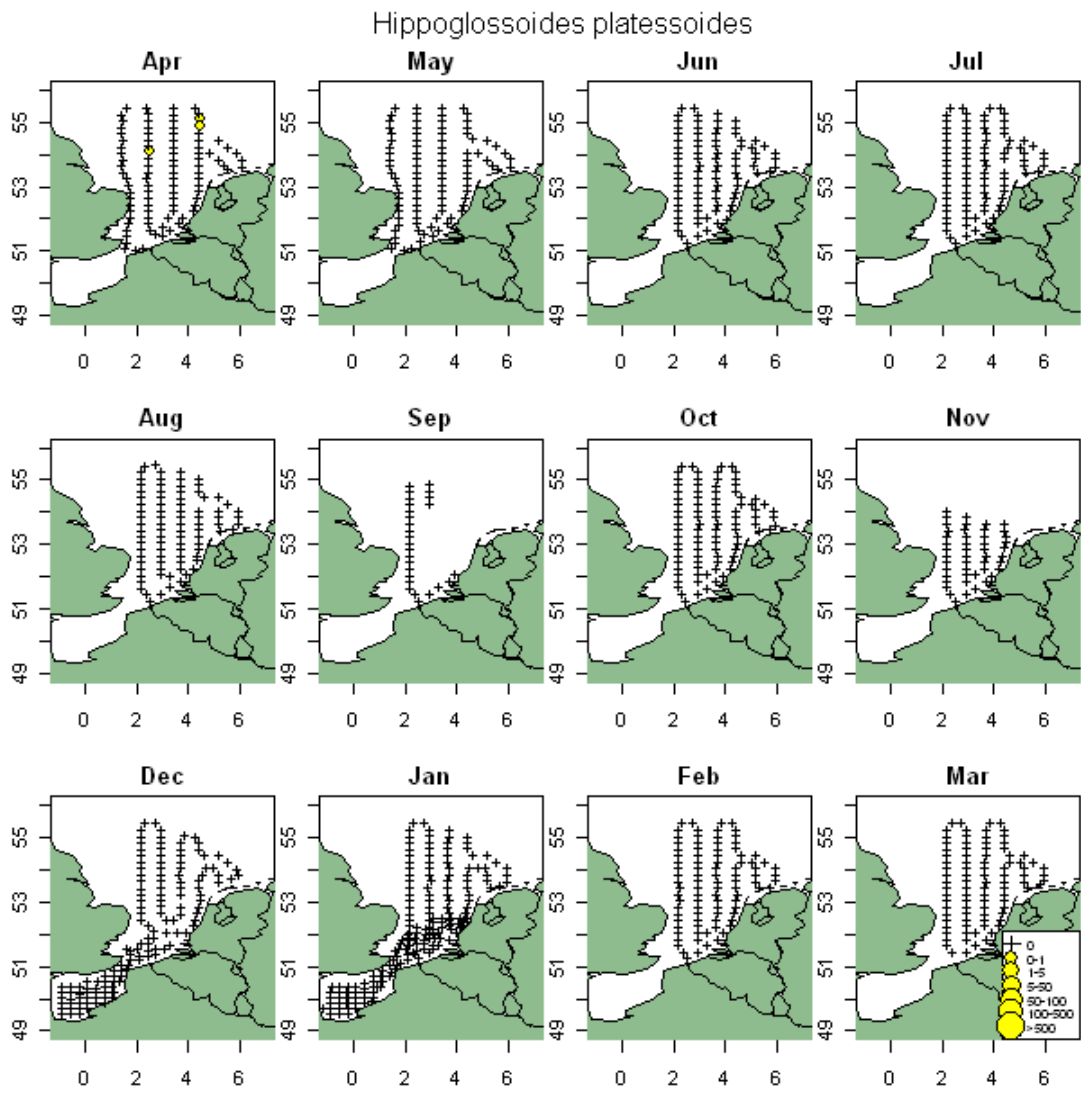


Figure 55h. Spatial and temporal distribution of bent notochord stage long rough dab larvae.

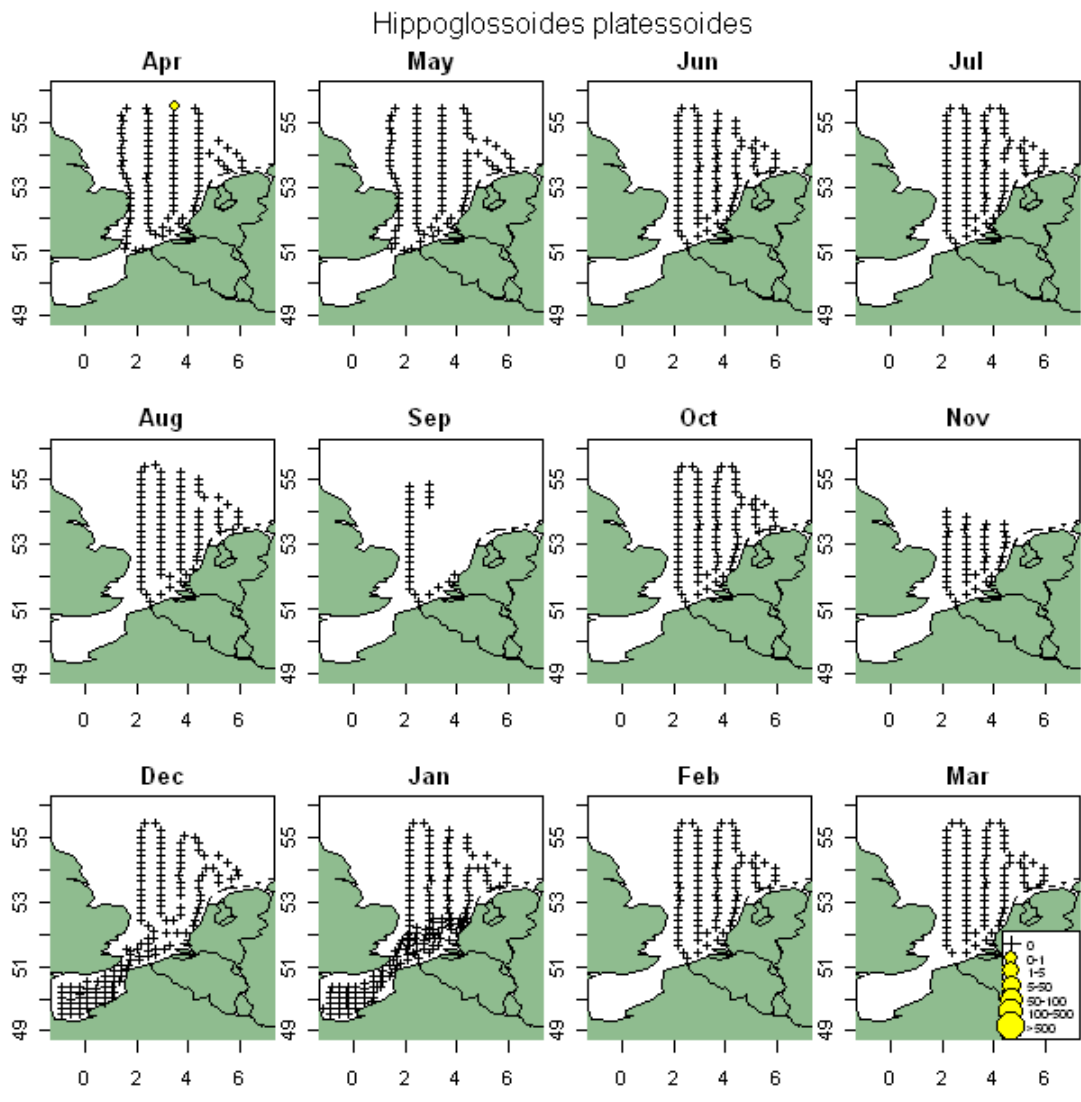


Figure 55i. Spatial and temporal distribution of metamorphosing long rough dab larvae.

## Dab like

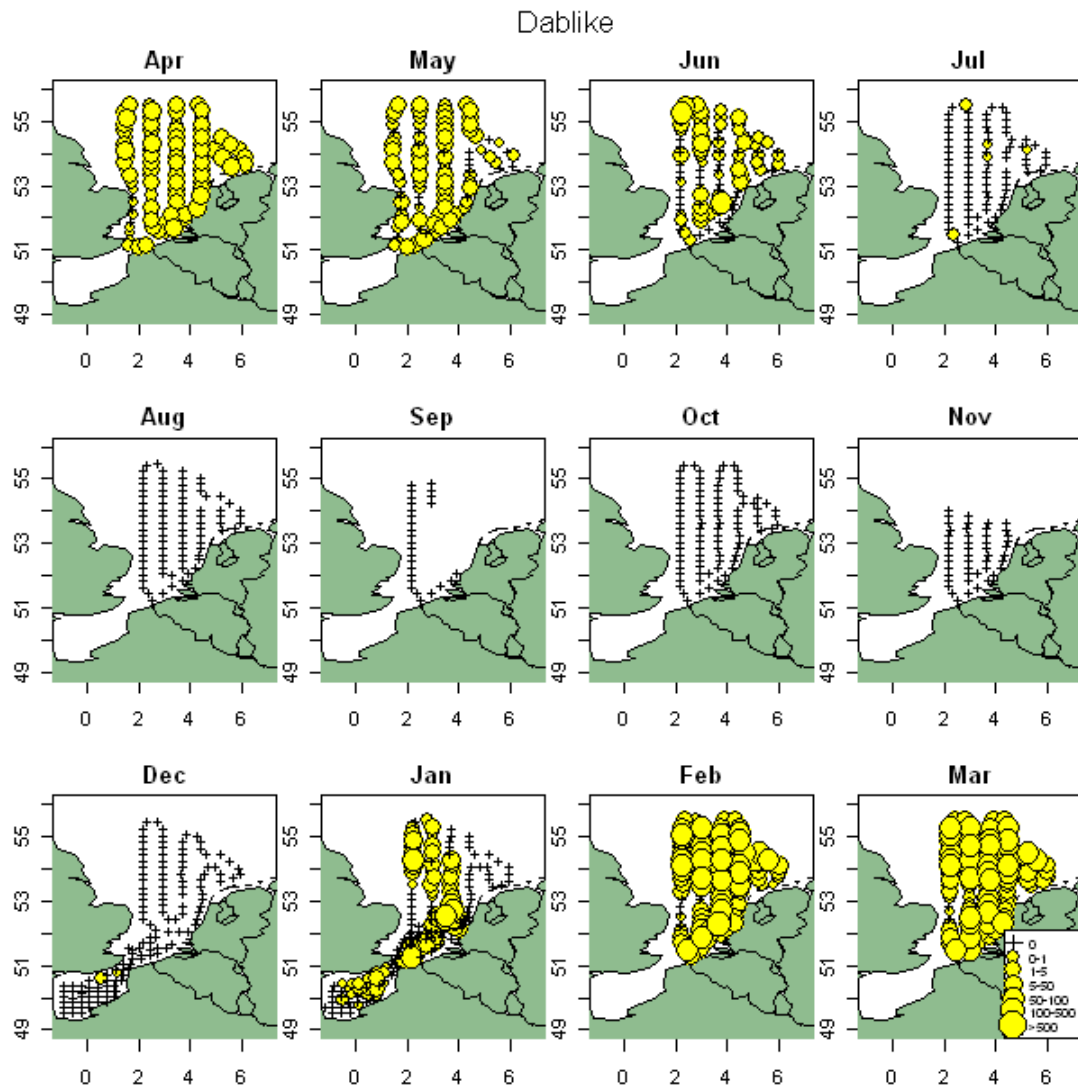


Figure 56a. Spatial and temporal distribution of stage 1 Dab like eggs.

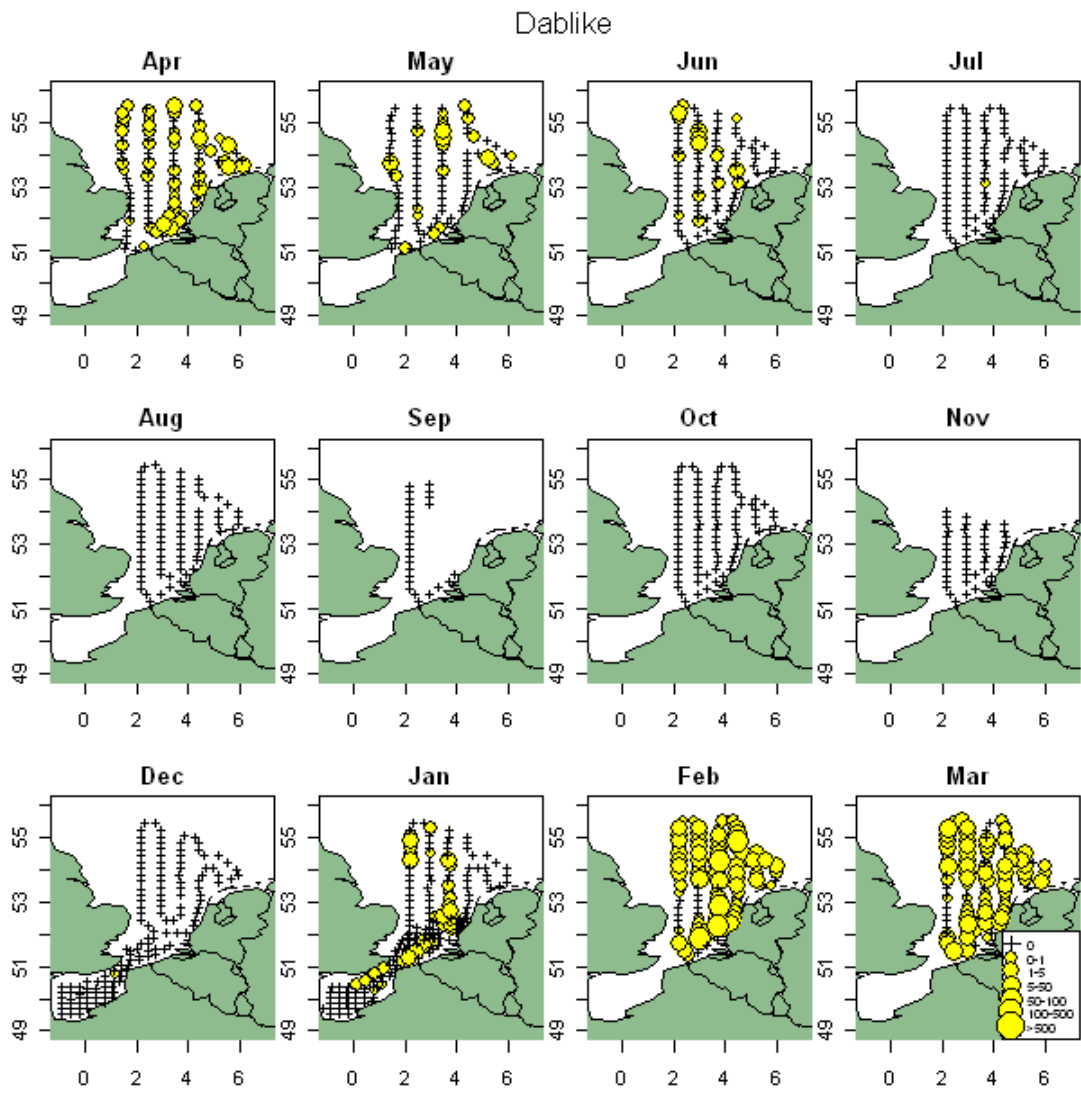


Figure 56b. Spatial and temporal distribution of stage 2 Dab like eggs.



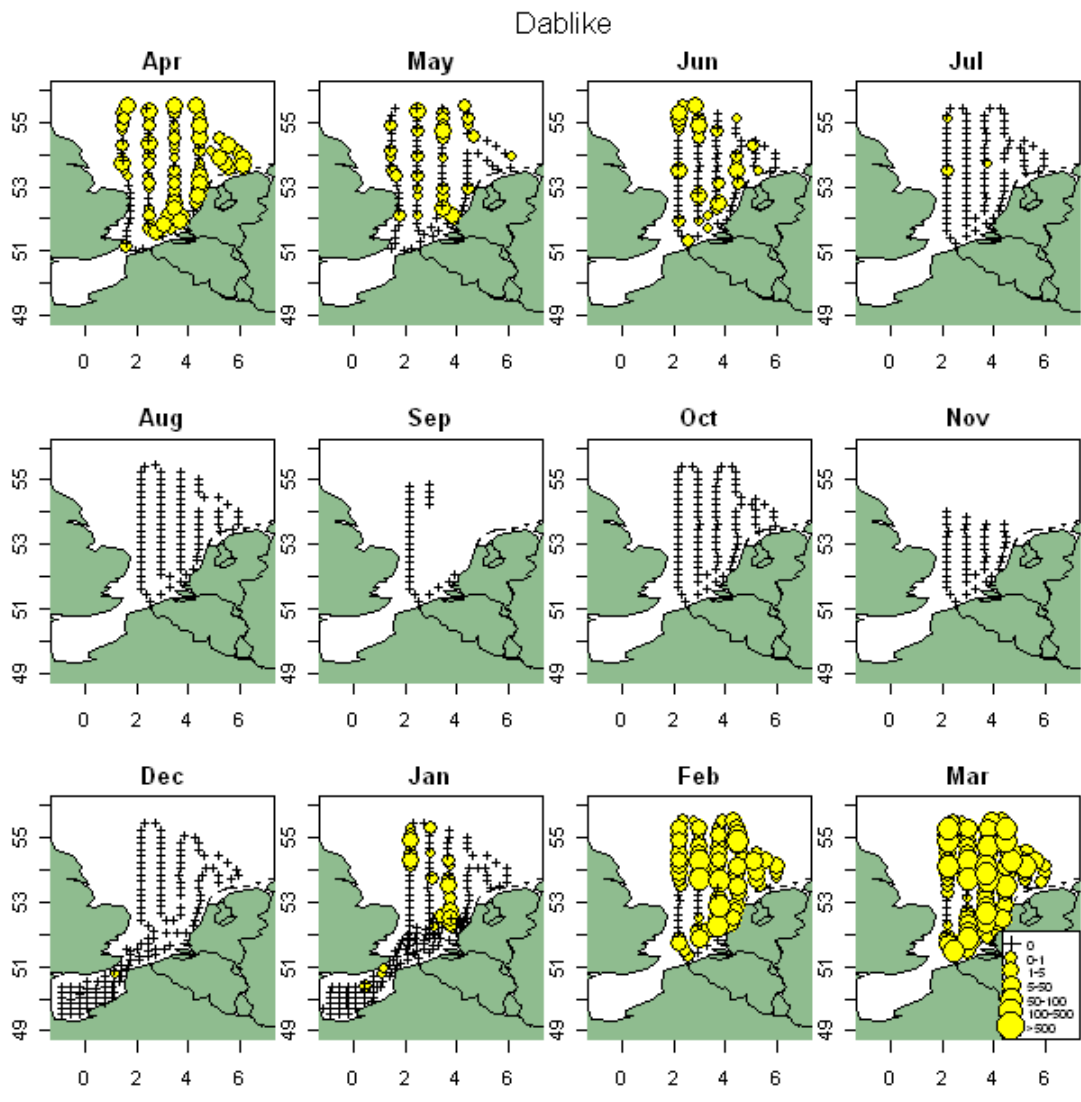


Figure 56c. Spatial and temporal distribution of stage 3 Dab like eggs.

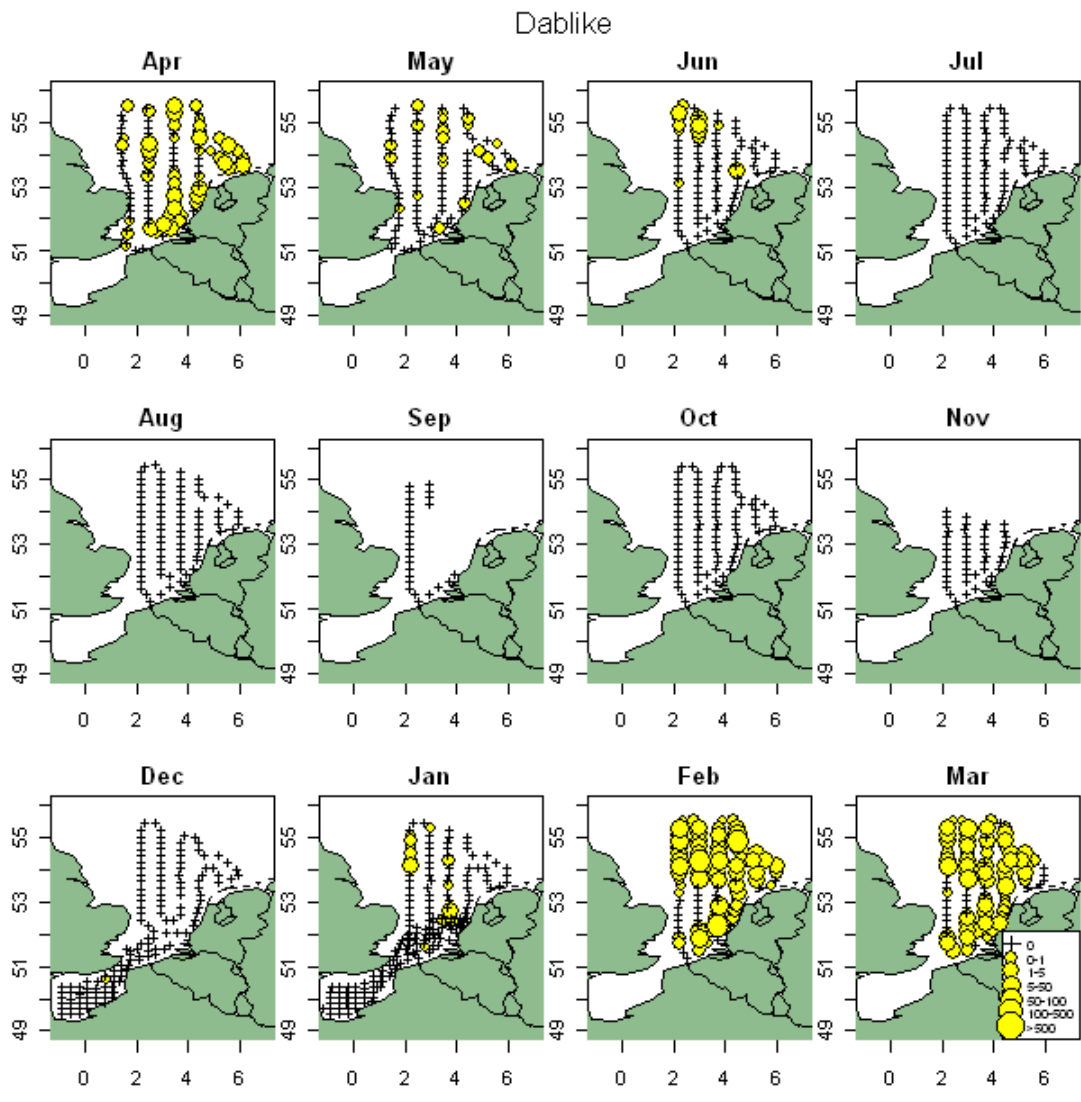


Figure 56d. Spatial and temporal distribution of stage 4 Dab like eggs.

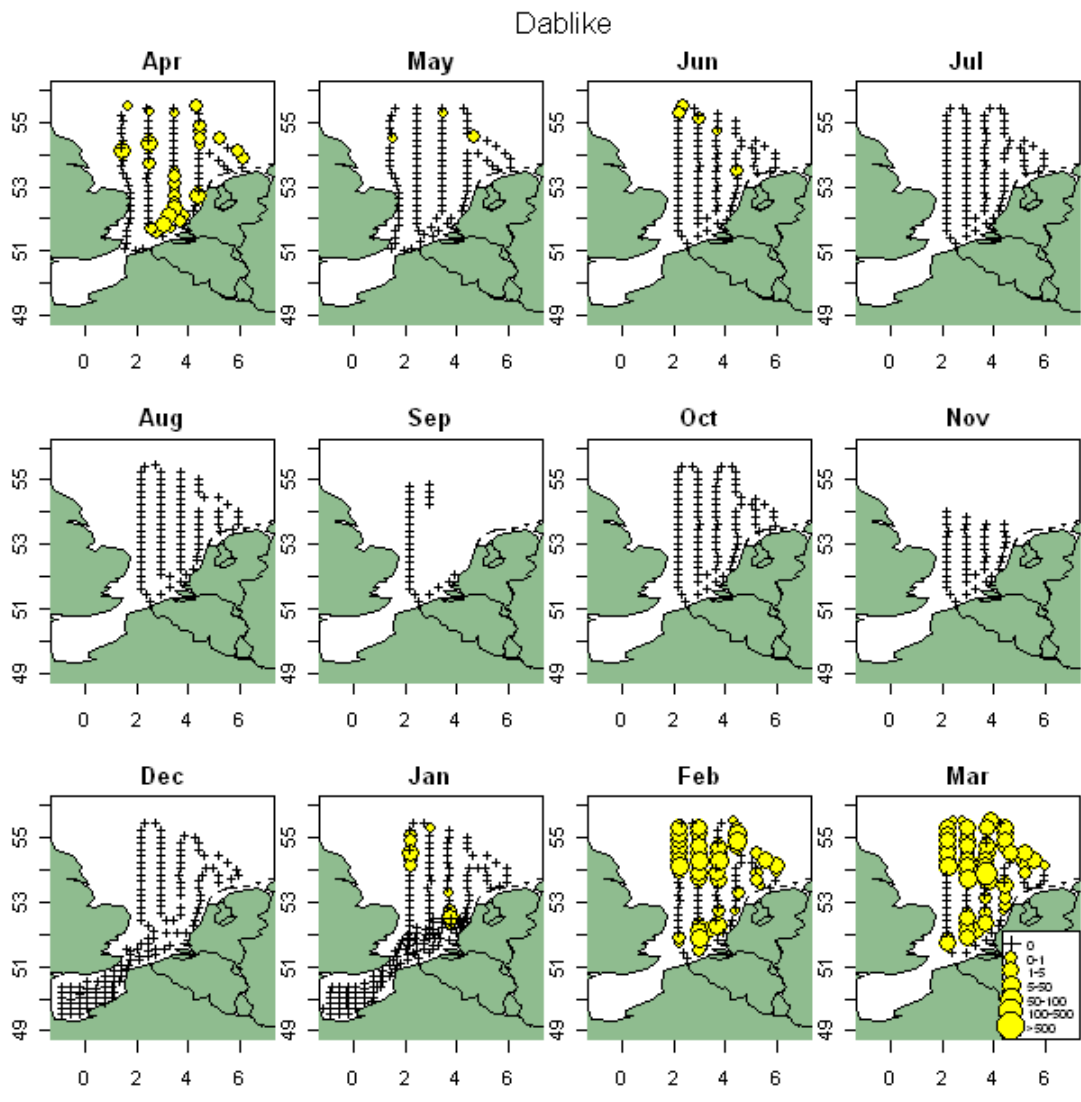


Figure 56e. Spatial and temporal distribution of stage 5 Dab like eggs.

**Dab *Limanda limanda***

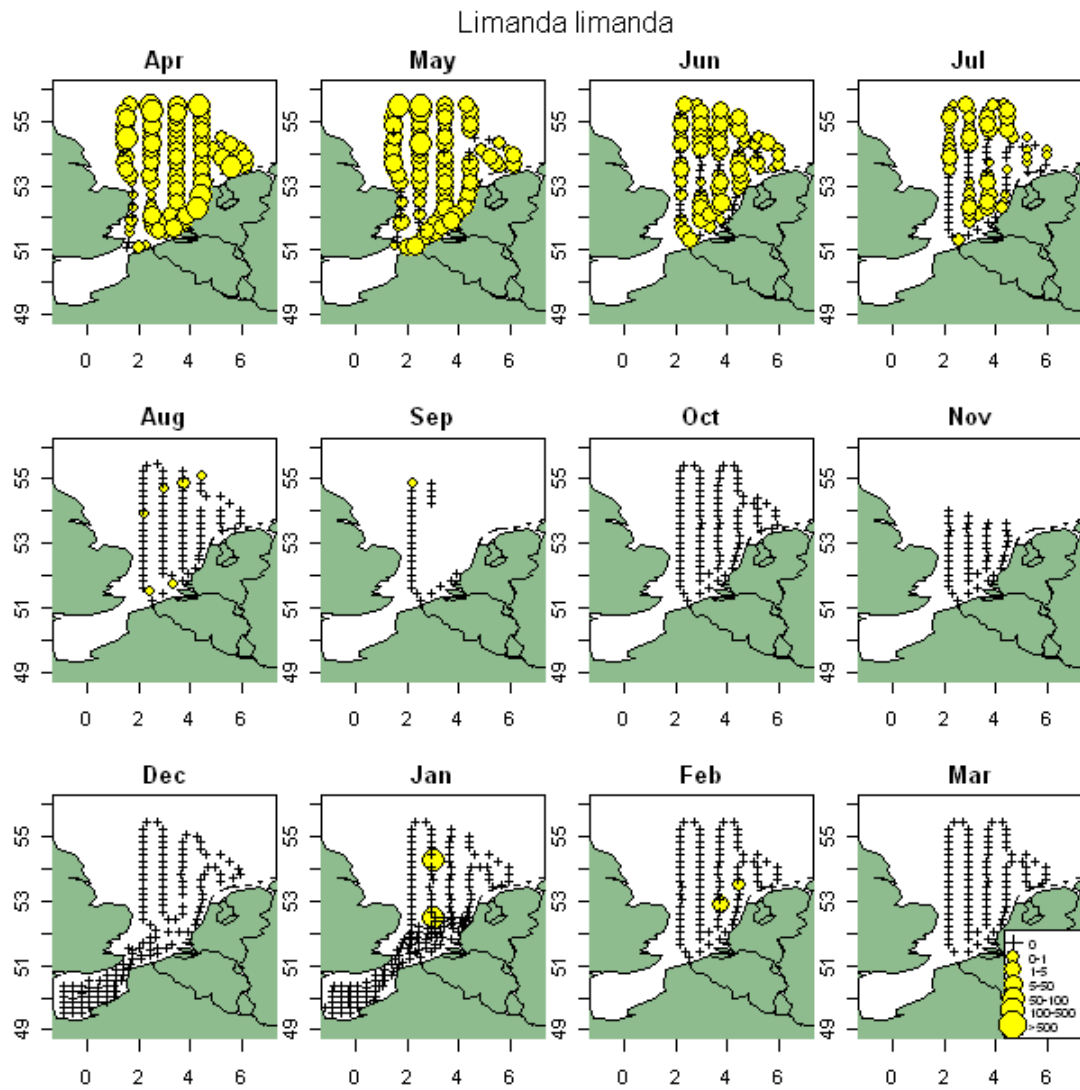


Figure 57a. Spatial and temporal distribution of stage 1 dab eggs.

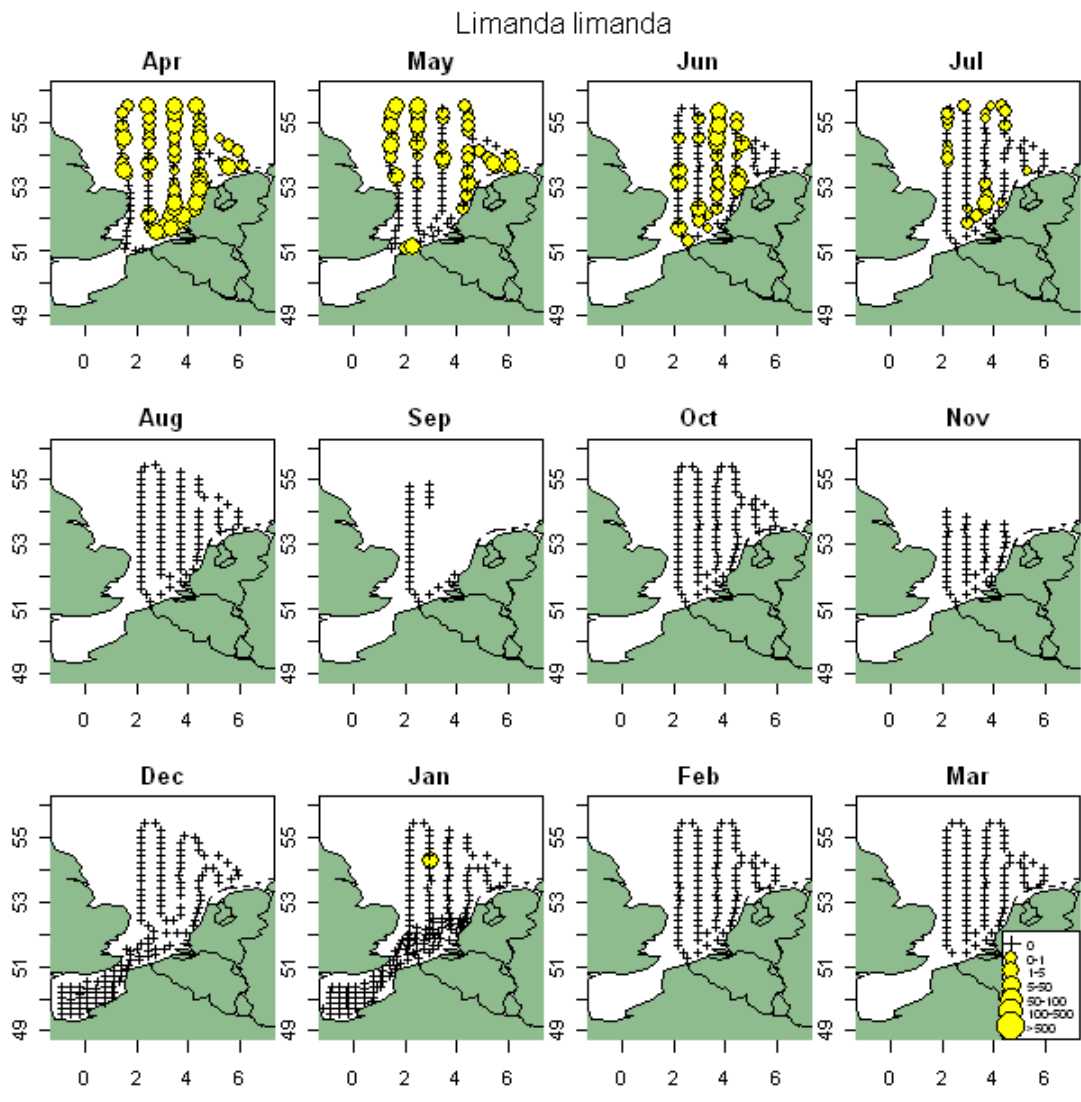


Figure 57b. Spatial and temporal distribution of stage 2 dab eggs.

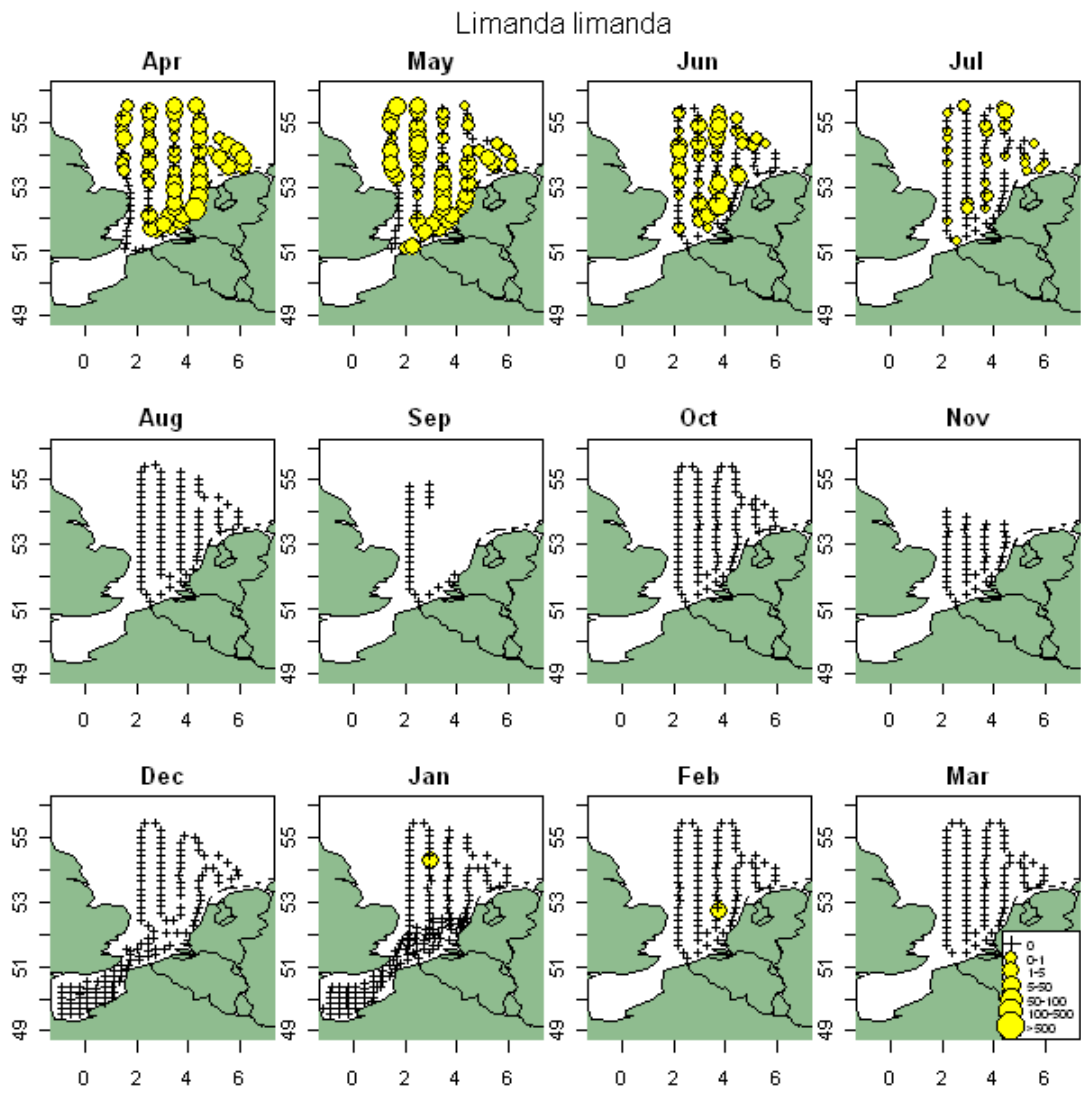


Figure 57c. Spatial and temporal distribution of stage 3 dab eggs.

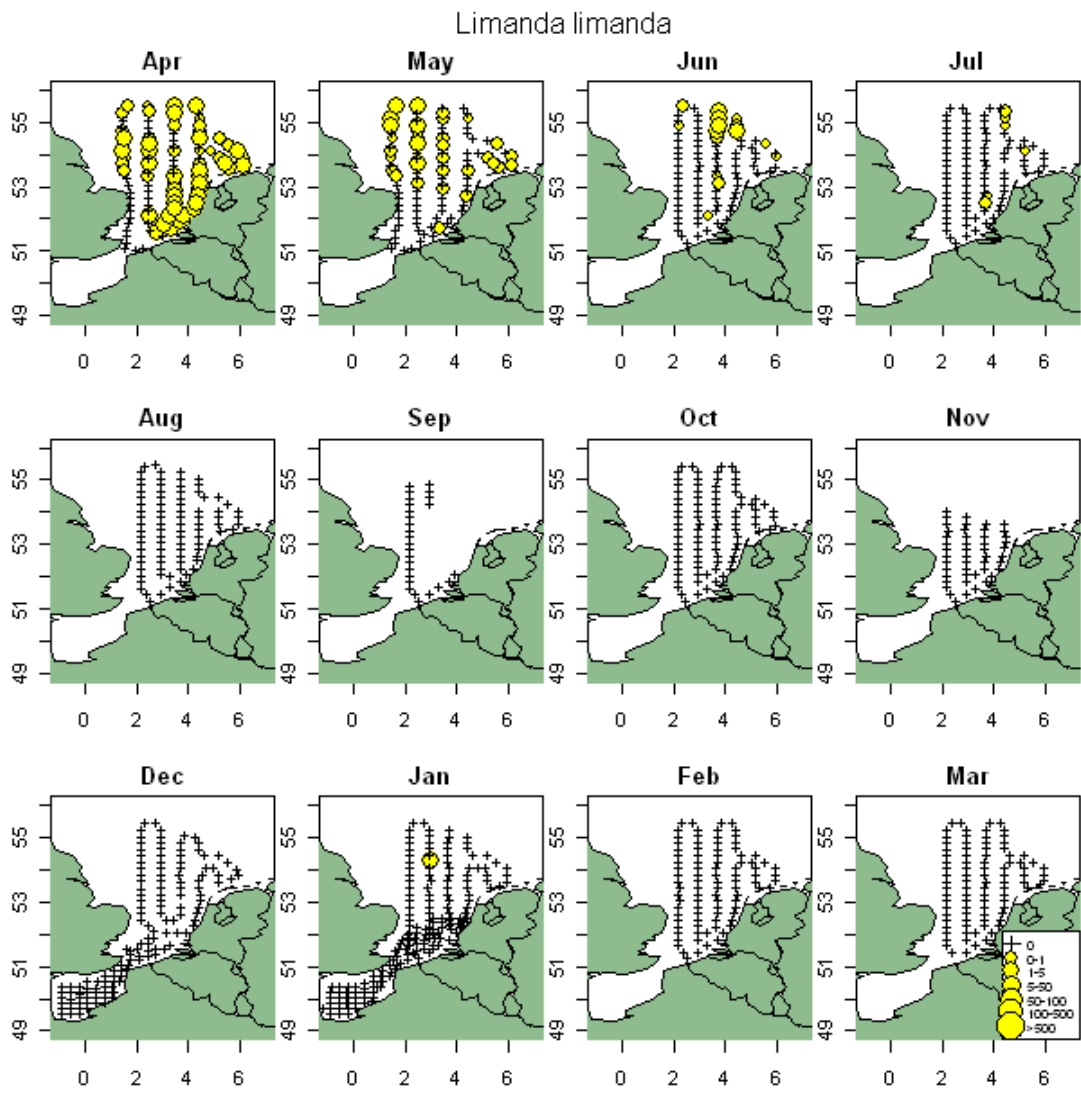


Figure 57d. Spatial and temporal distribution of stage 4 dab eggs.

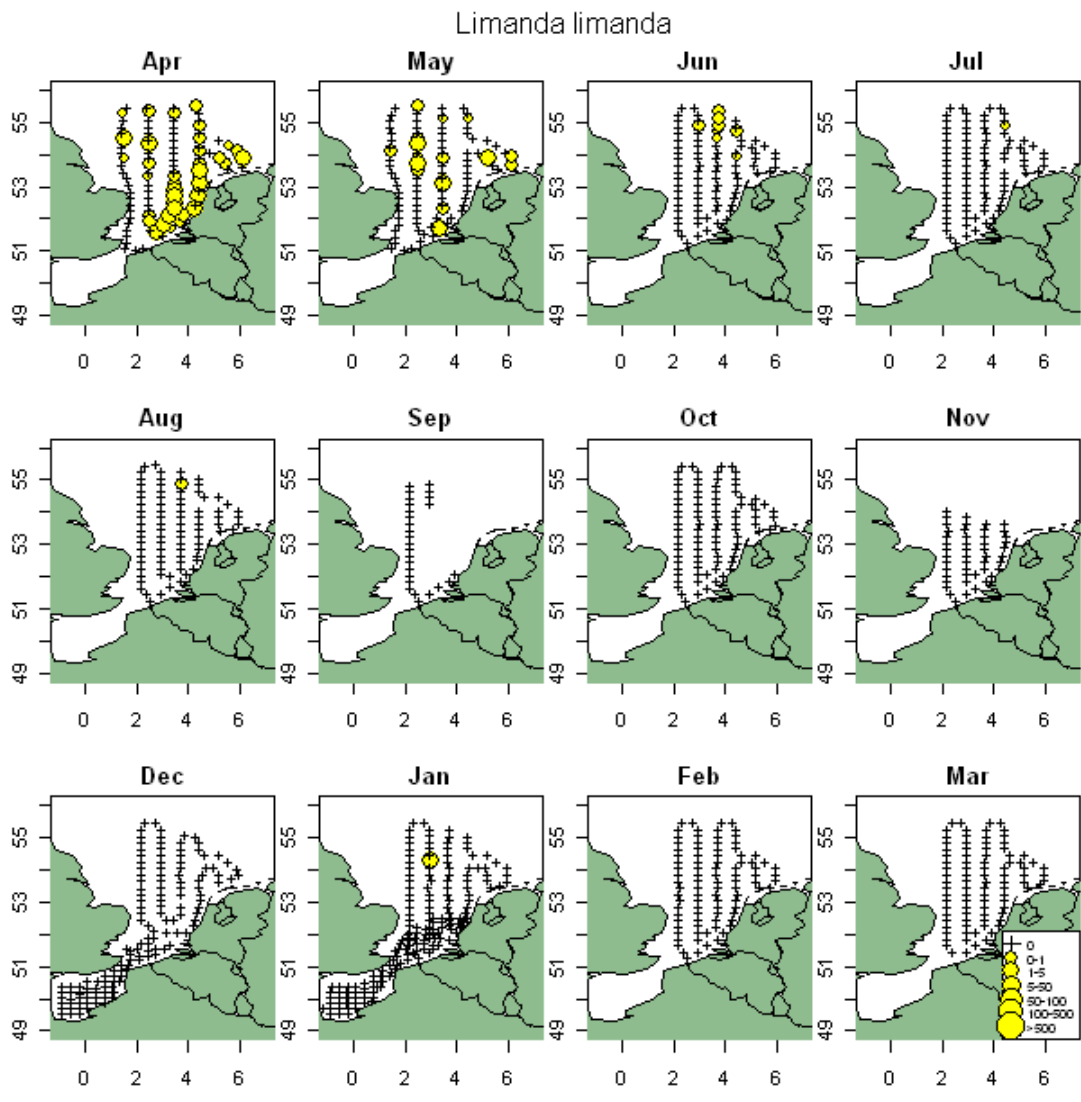


Figure 57e. Spatial and temporal distribution of stage 5 dab eggs.



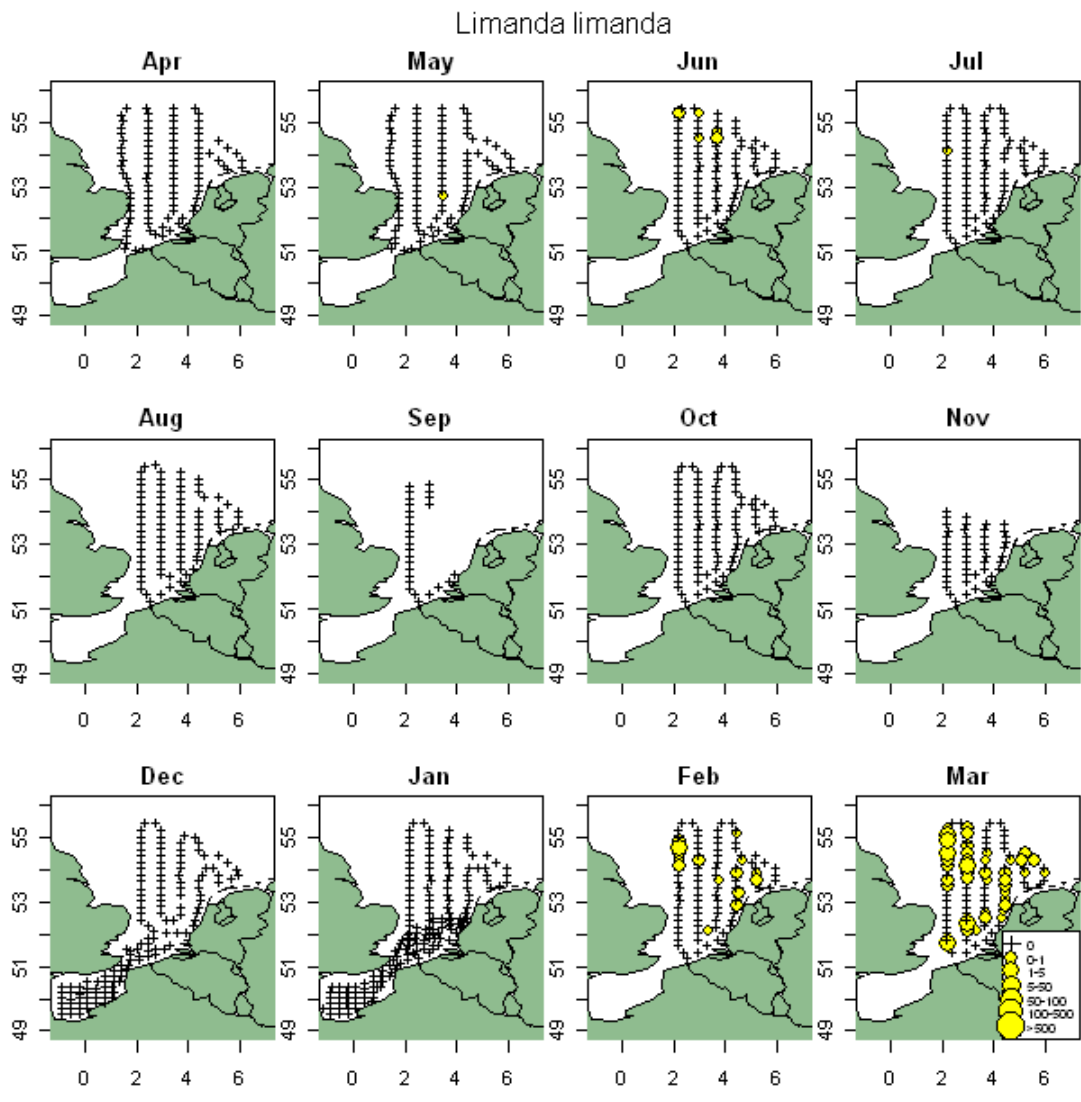


Figure 57f. Spatial and temporal distribution of yolk sac dab larvae.

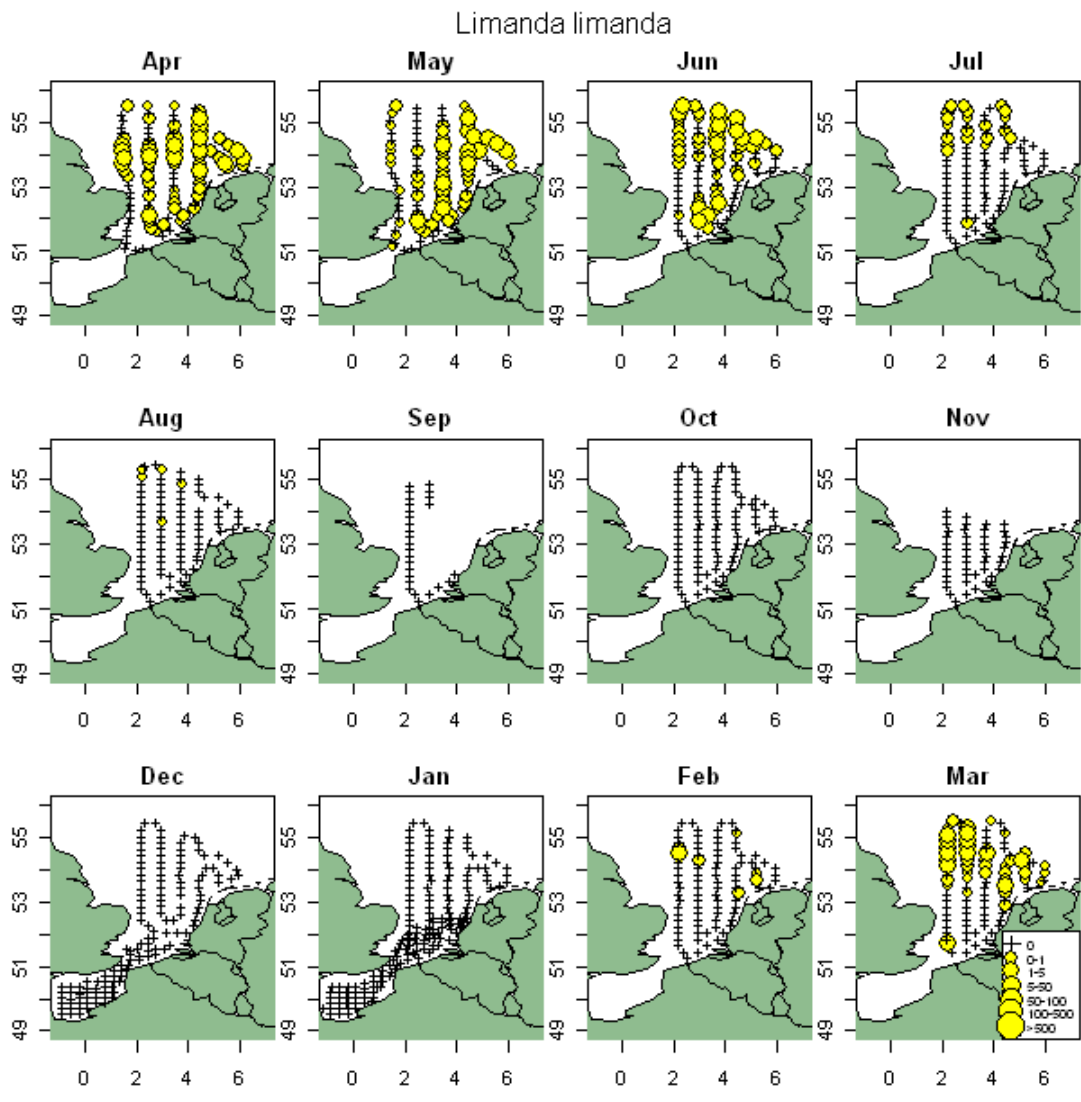


Figure 57g. Spatial and temporal distribution of non-yolk sac dab larvae.

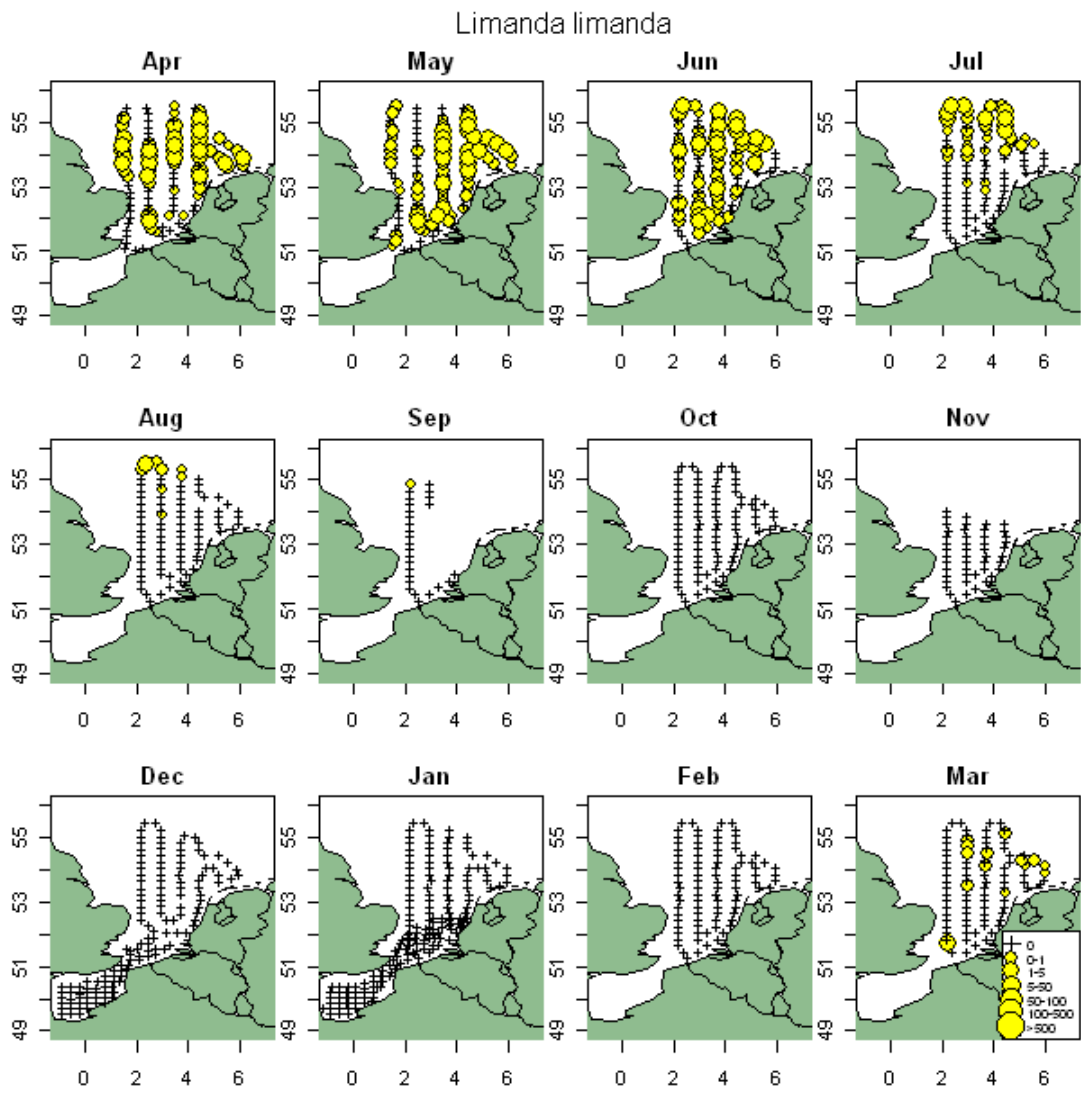


Figure 57h. Spatial and temporal distribution of bent notochord stage dab larvae.

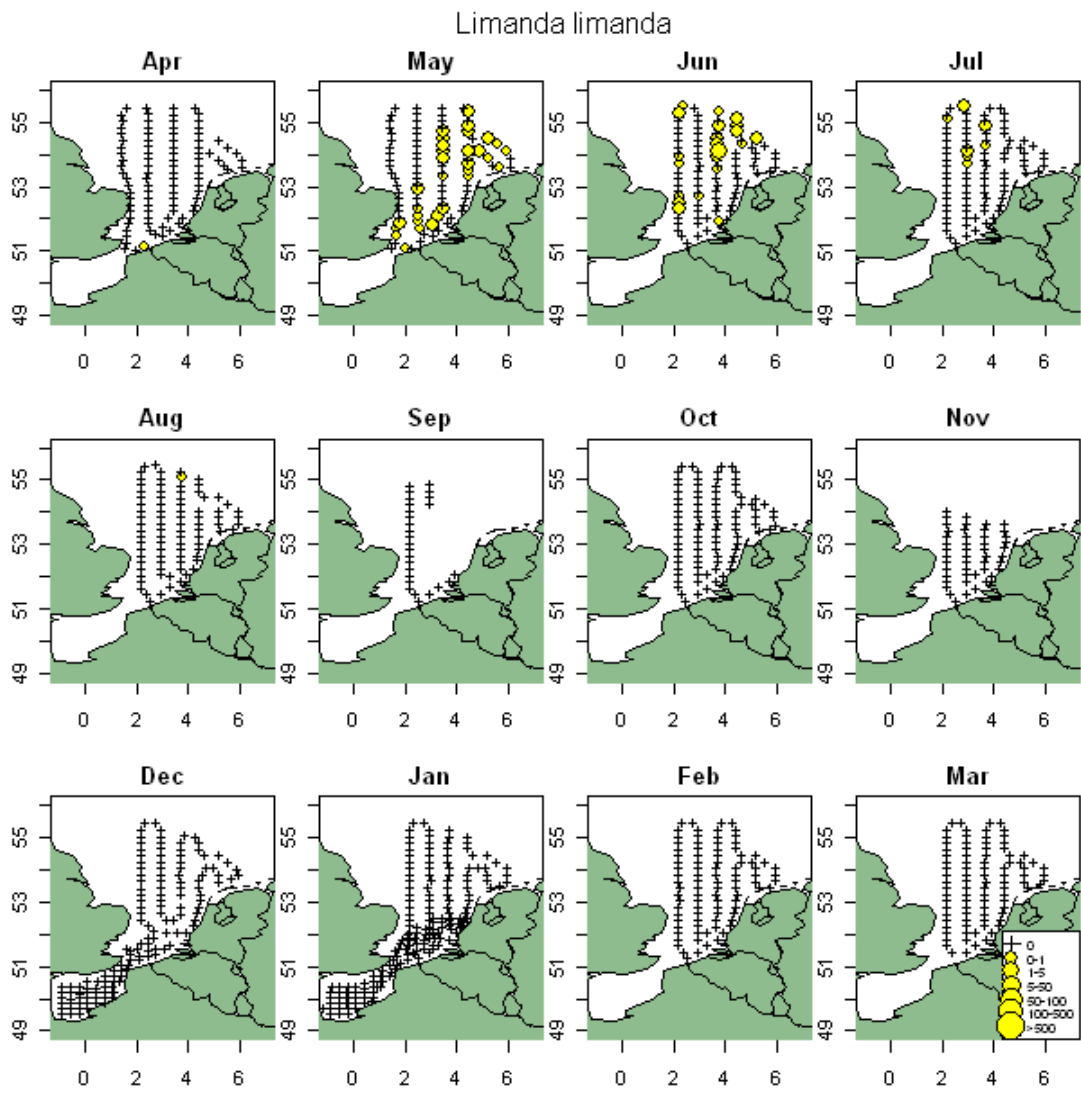


Figure 57i. Spatial and temporal distribution of metamorphosing dab larvae.

**Plaice *Pleuronectes platessa***

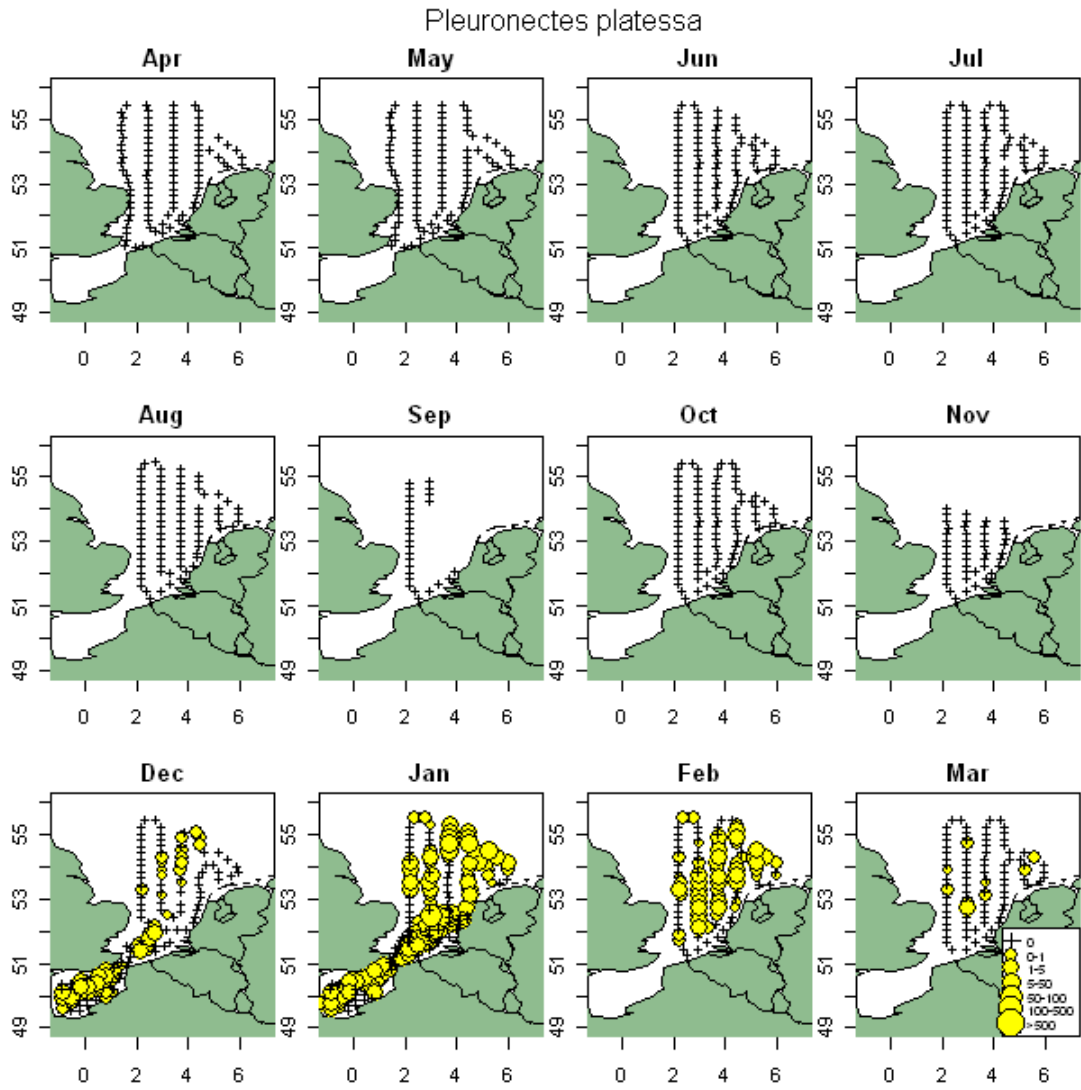


Figure 58a. Spatial and temporal distribution of stage 1 plaice eggs.

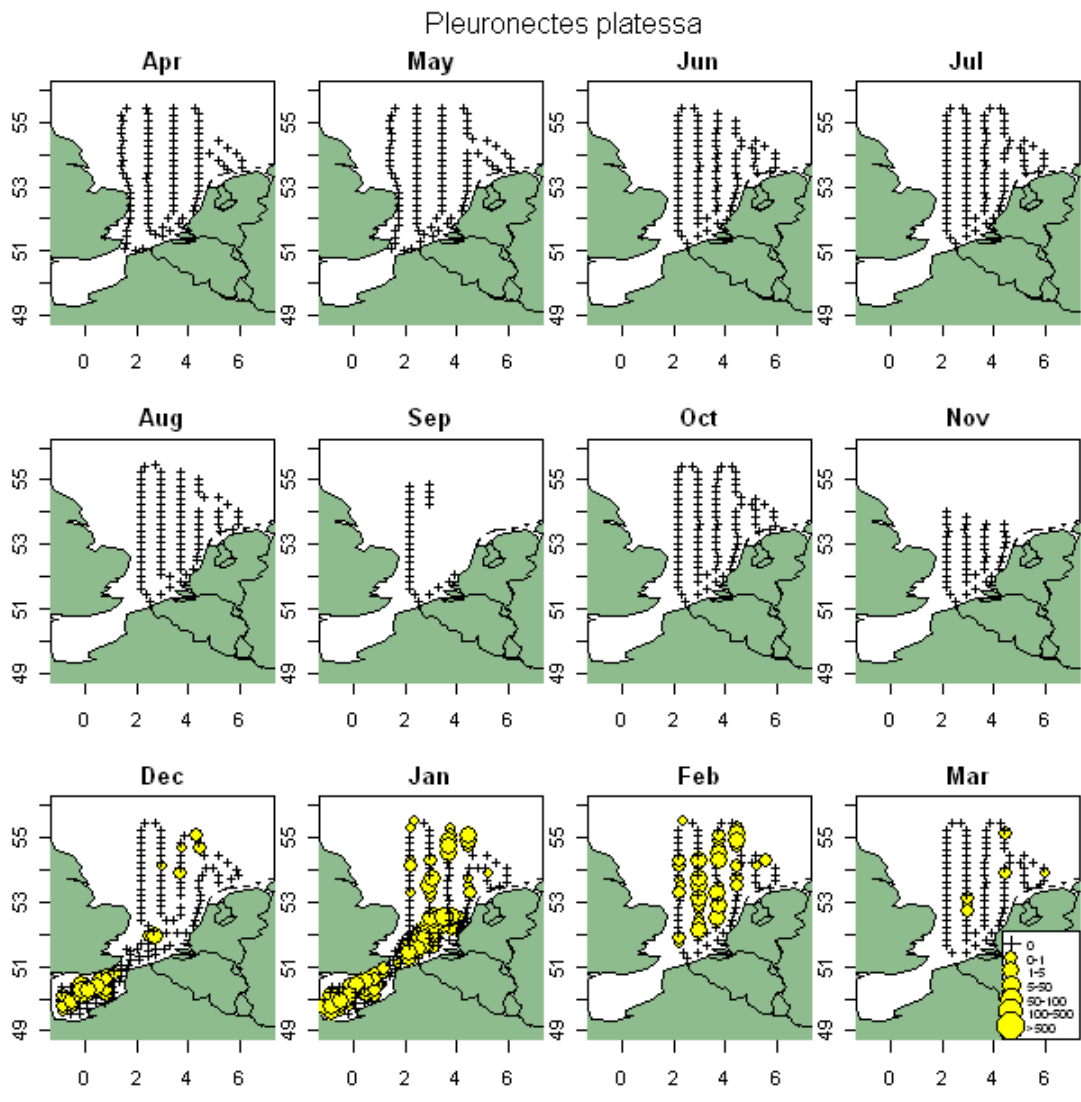


Figure 58b. Spatial and temporal distribution of stage 2 plaice eggs.

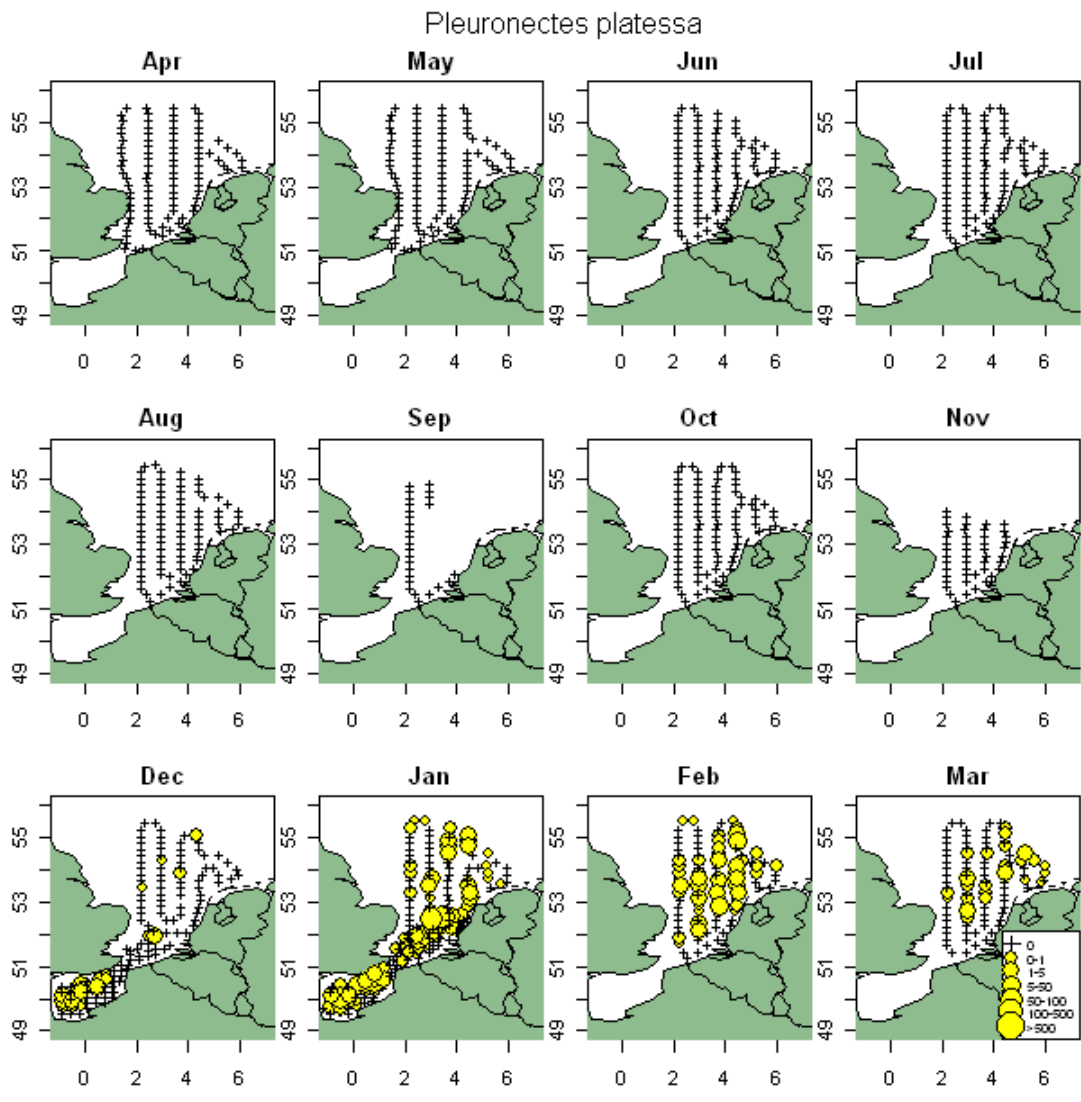


Figure 58c. Spatial and temporal distribution of stage 3 plaice eggs.

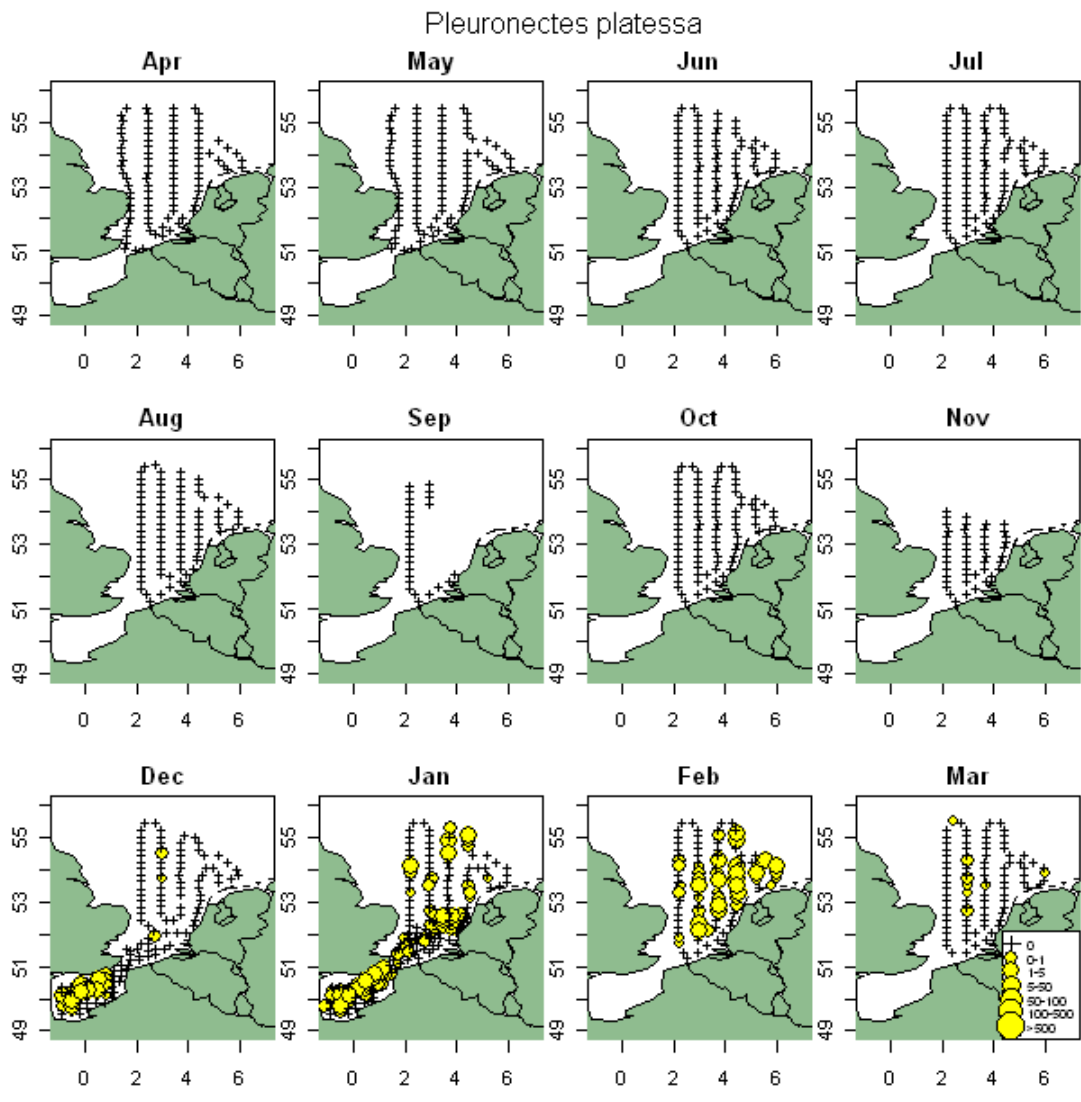


Figure 58d. Spatial and temporal distribution of stage 4 plaice eggs.



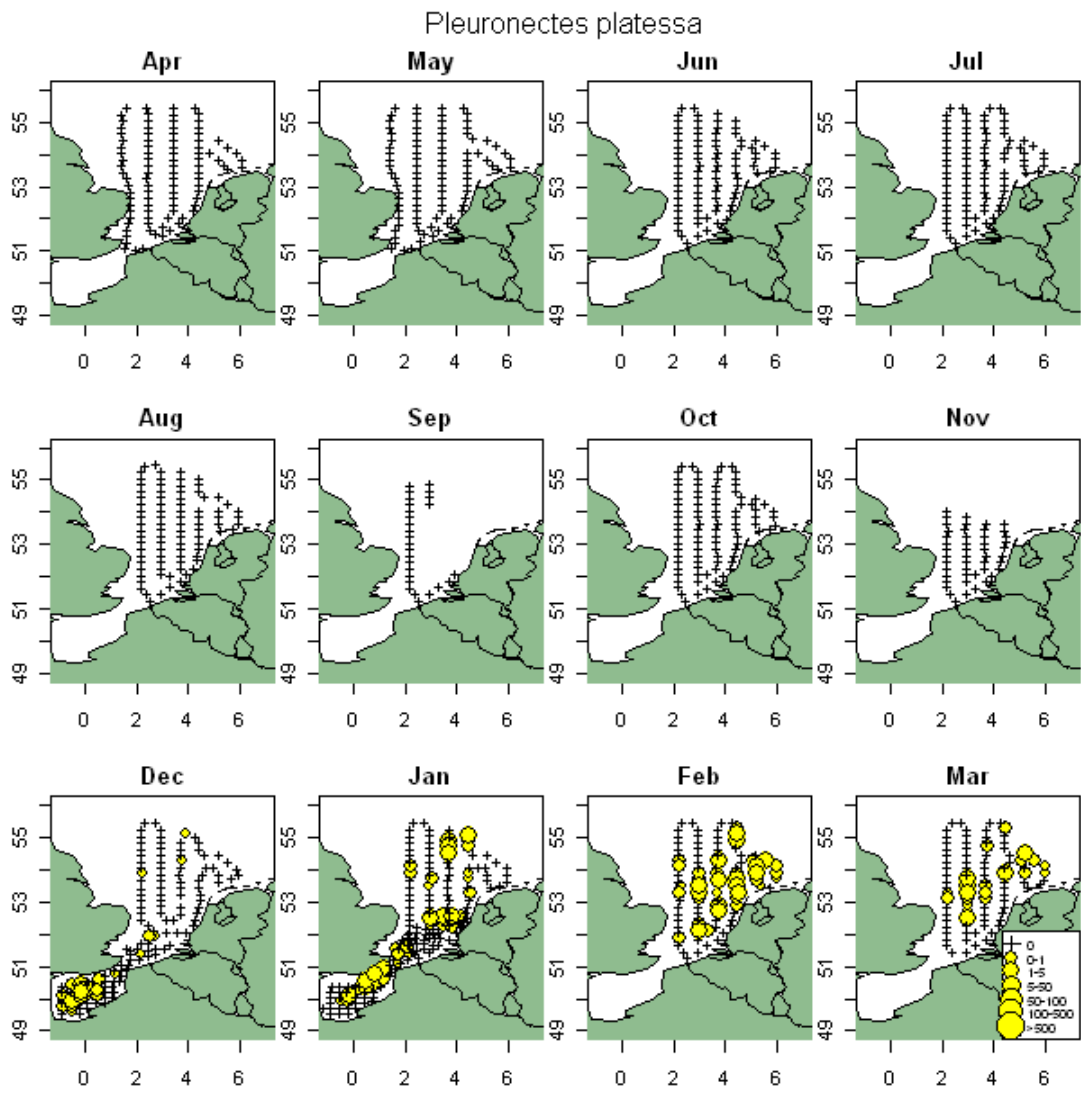


Figure 58e. Spatial and temporal distribution of stage 5 plaice eggs.

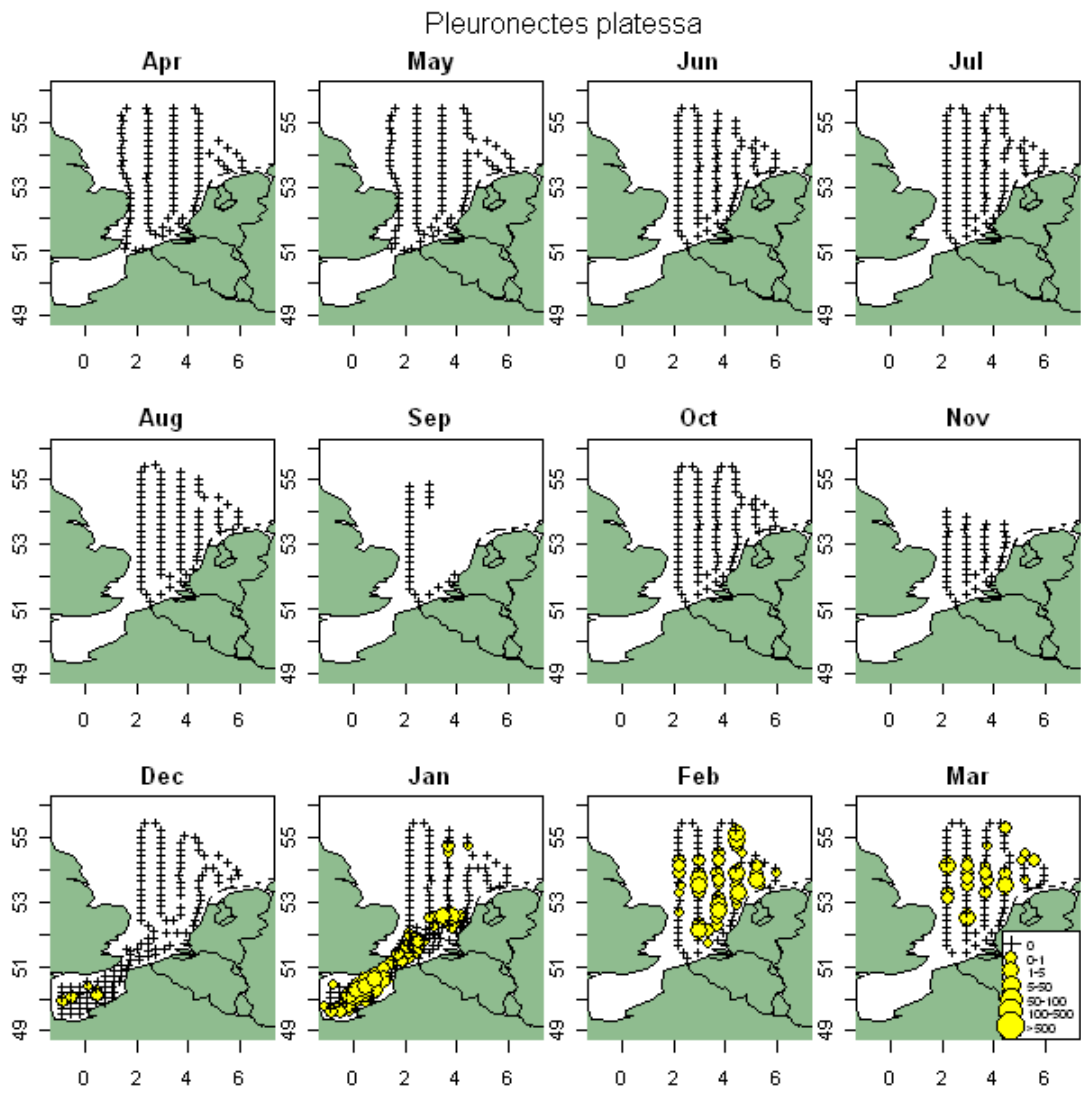


Figure 58f. Spatial and temporal distribution of yolk sac plaice larvae.

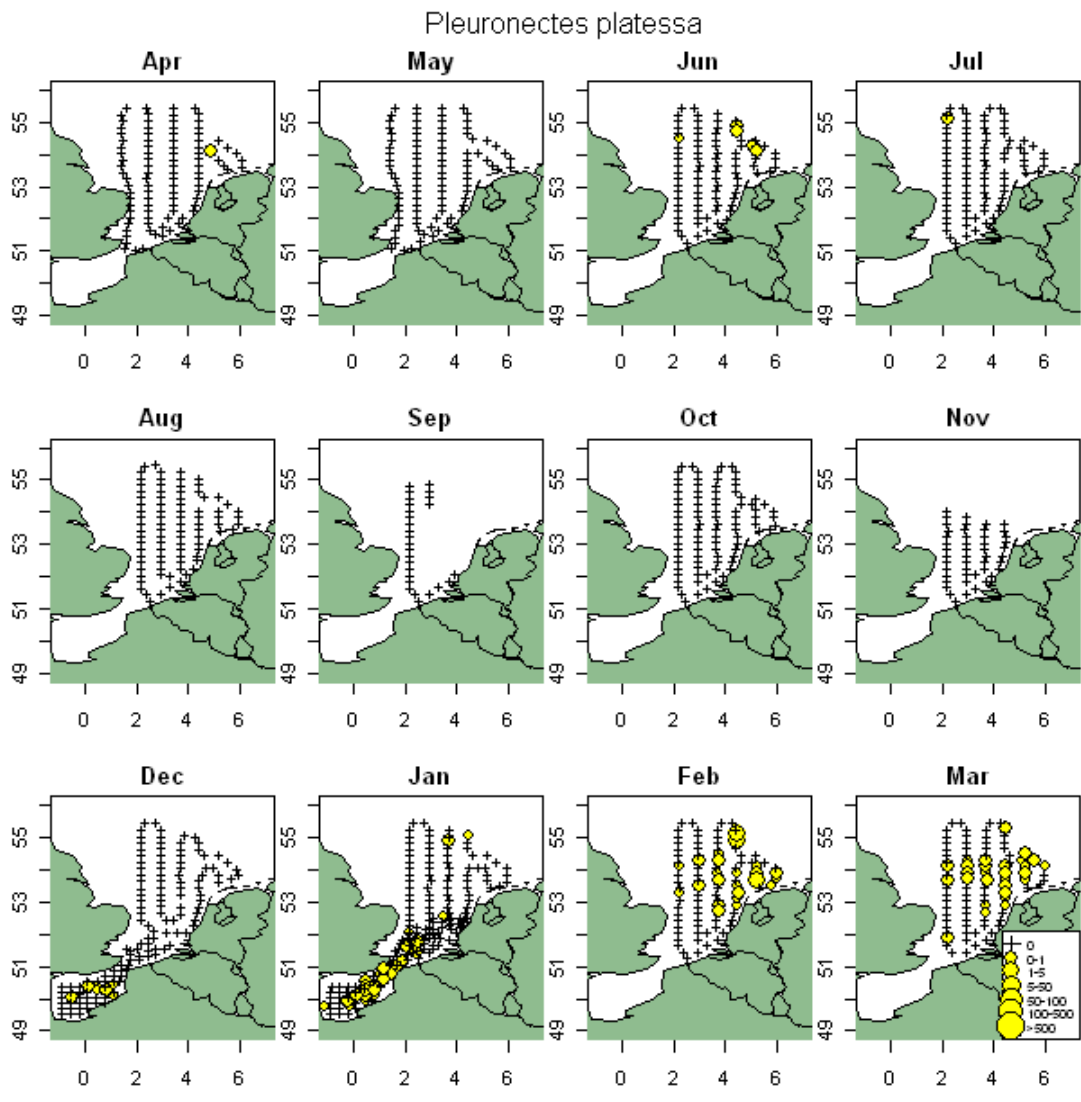


Figure 58g. Spatial and temporal distribution of non-yolk sac plaice larvae.

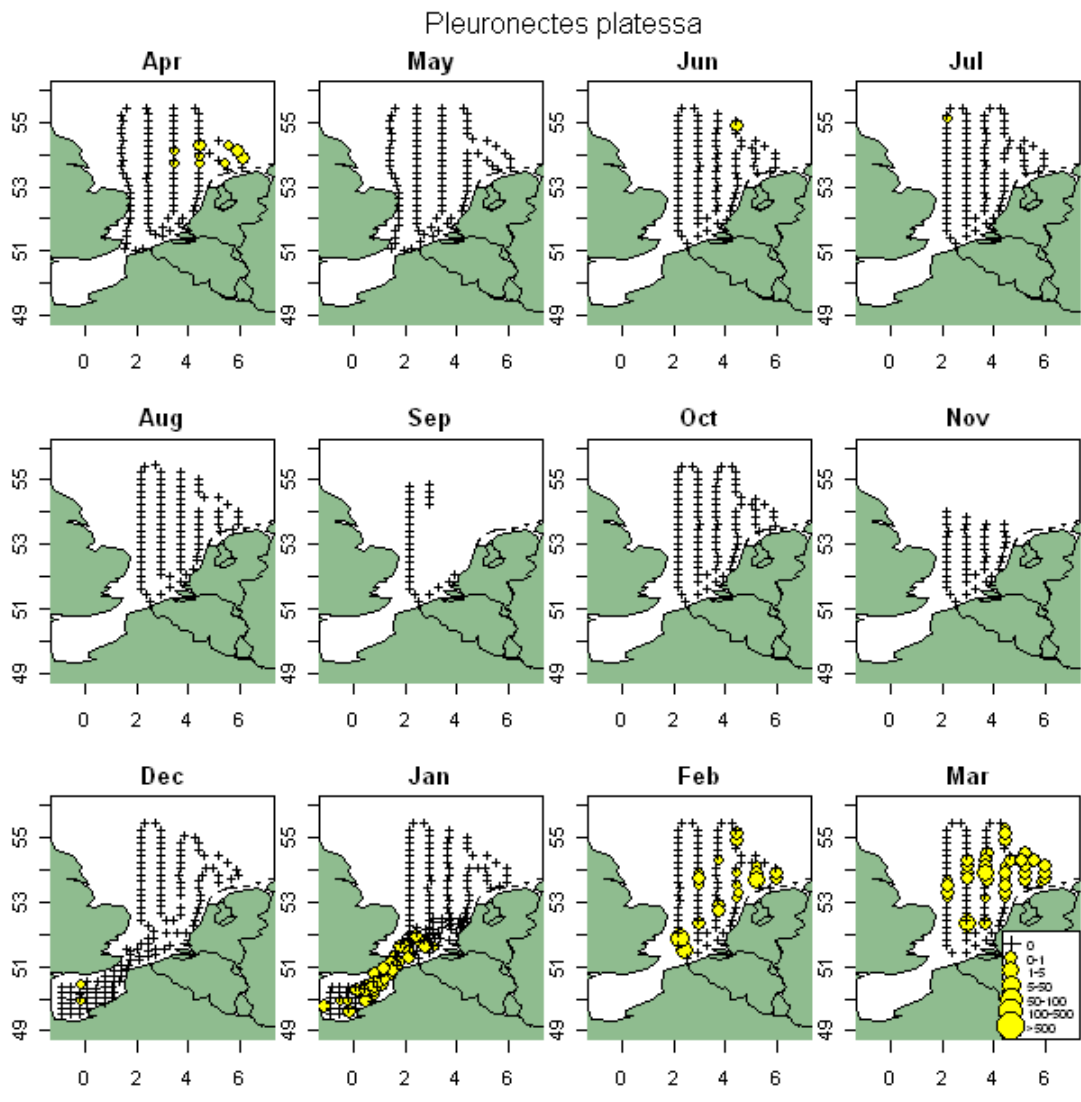


Figure 58h. Spatial and temporal distribution of bent notochord stage plaice larvae.

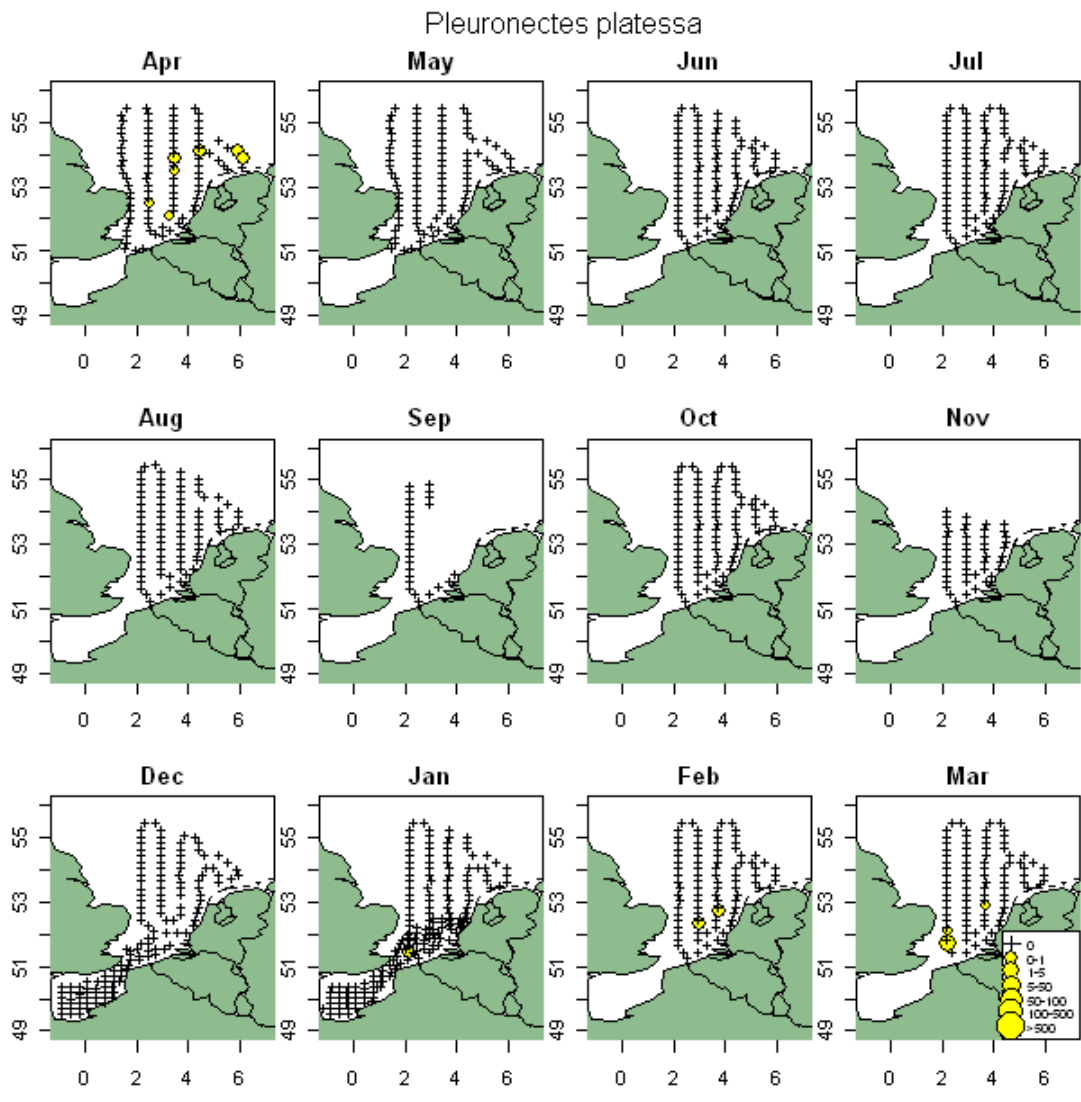


Figure 58i. Spatial and temporal distribution of metamorphosing plaice larvae.

**Lemon sole *Microstomus kitt***

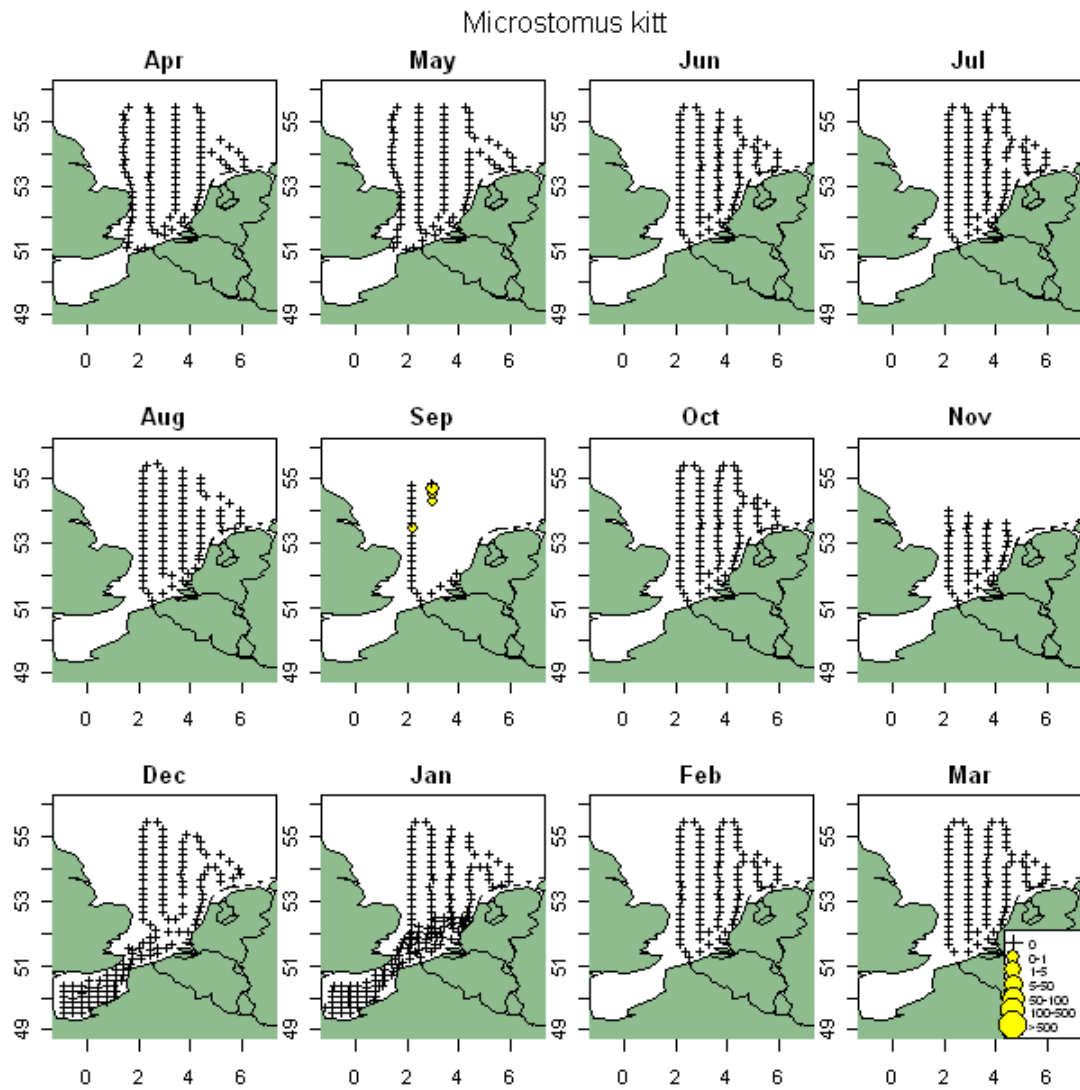


Figure 59a. Spatial and temporal distribution of stage 1 lemon sole eggs.

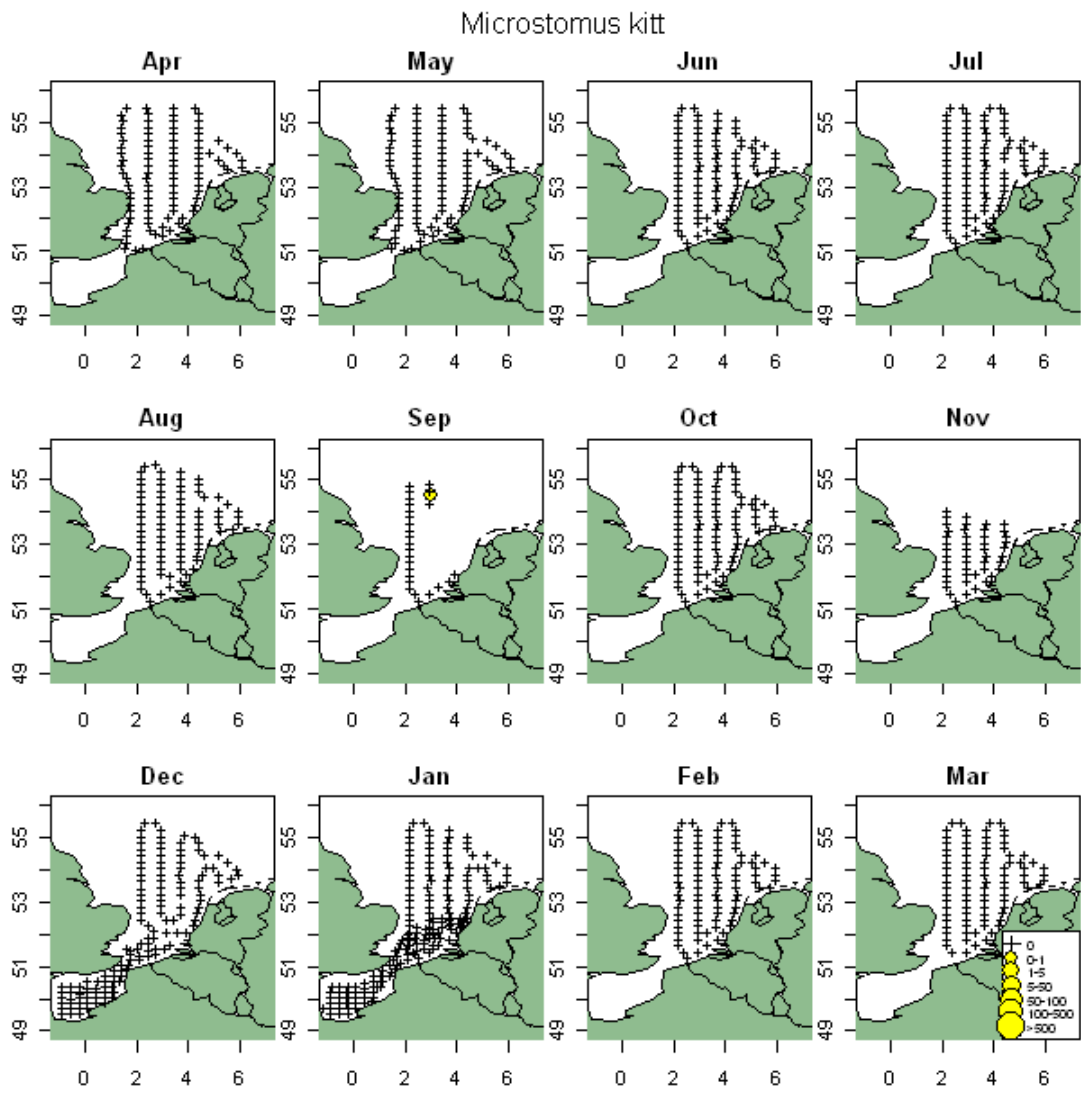


Figure 59b. Spatial and temporal distribution of stage 2 lemon sole eggs.

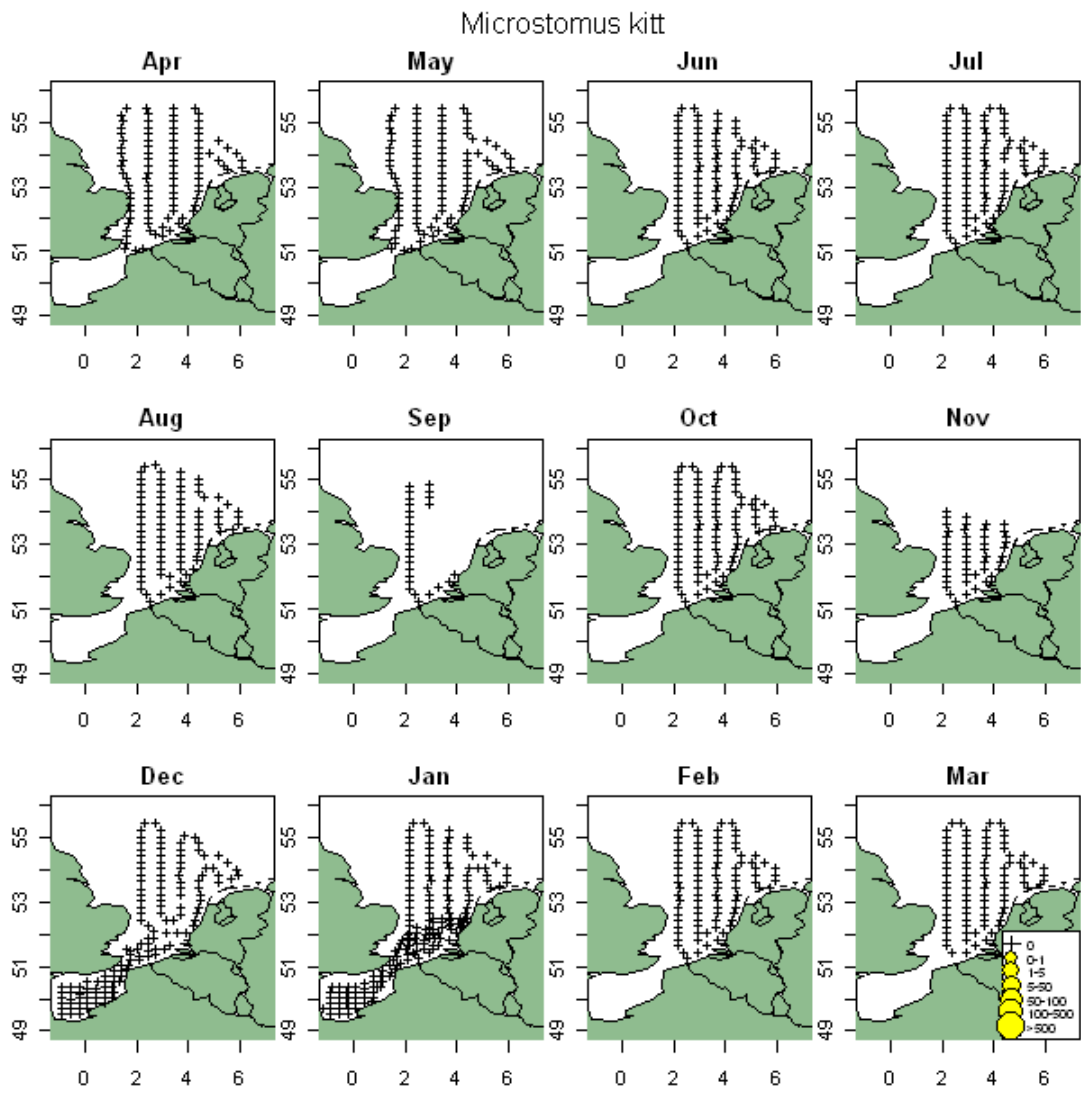


Figure 59c. Spatial and temporal distribution of stage 3 lemon sole eggs.



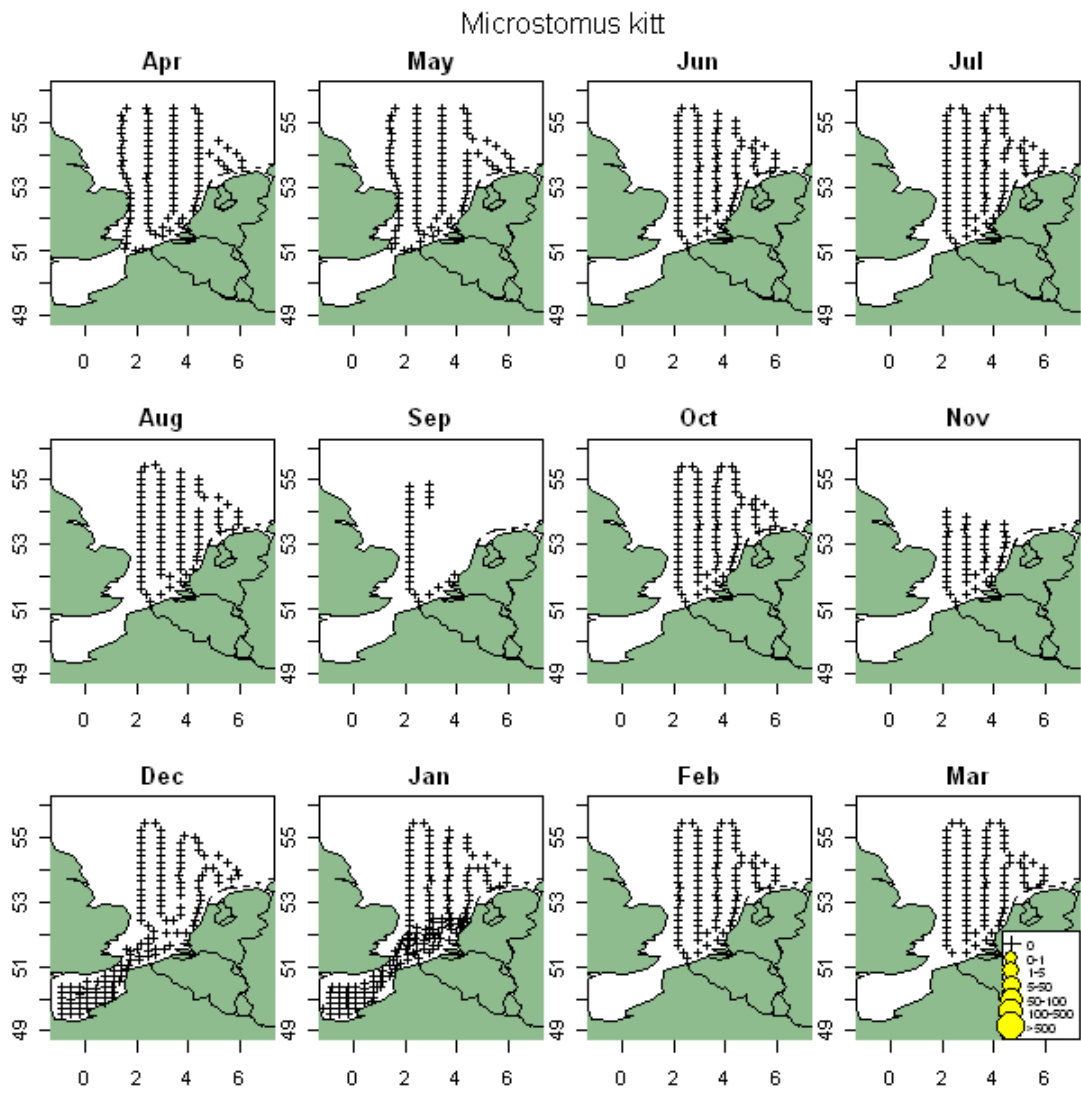


Figure 59d. Spatial and temporal distribution of stage 4 lemon sole eggs.

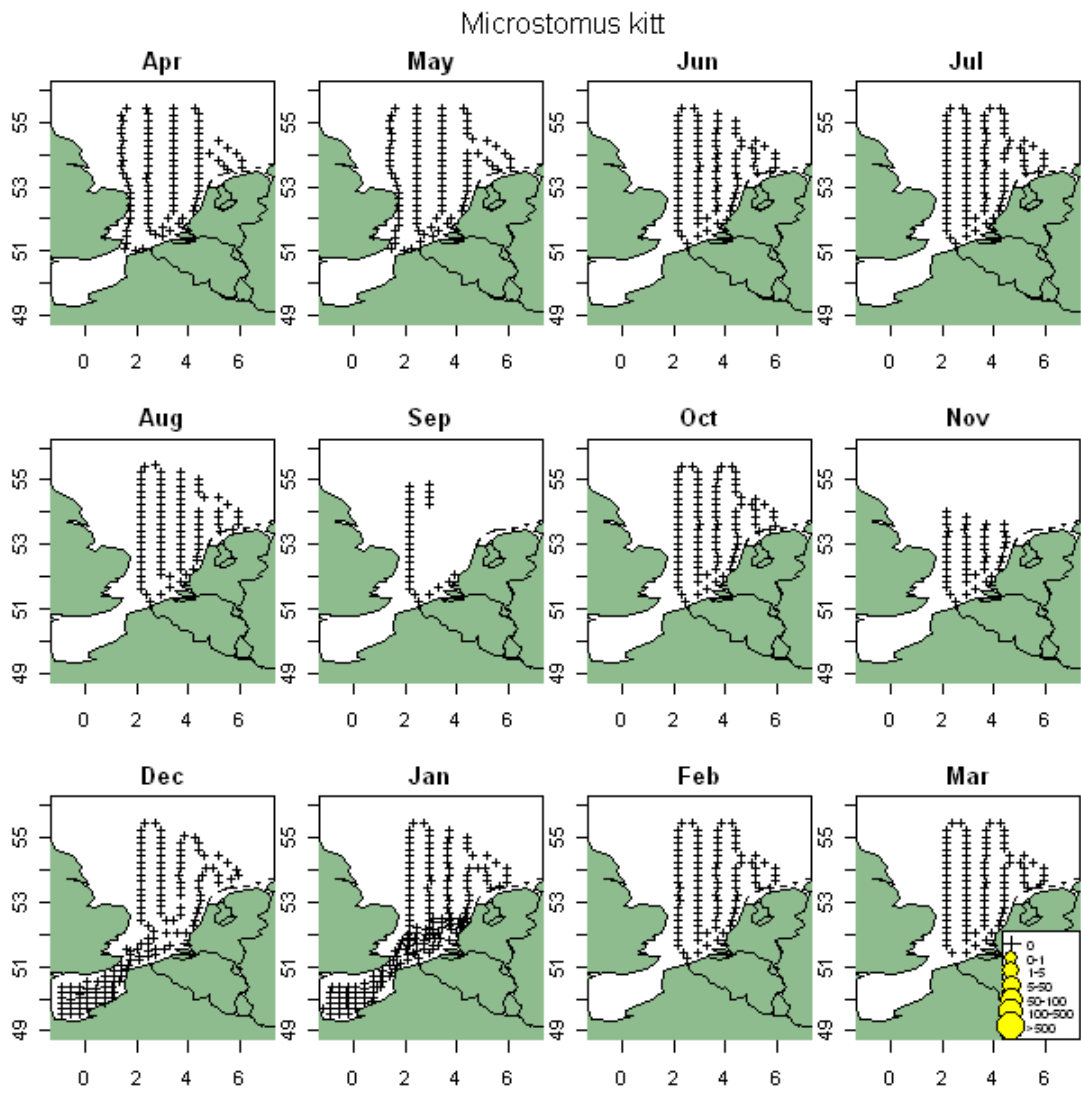


Figure 59e. Spatial and temporal distribution of stage 5 lemon sole eggs.

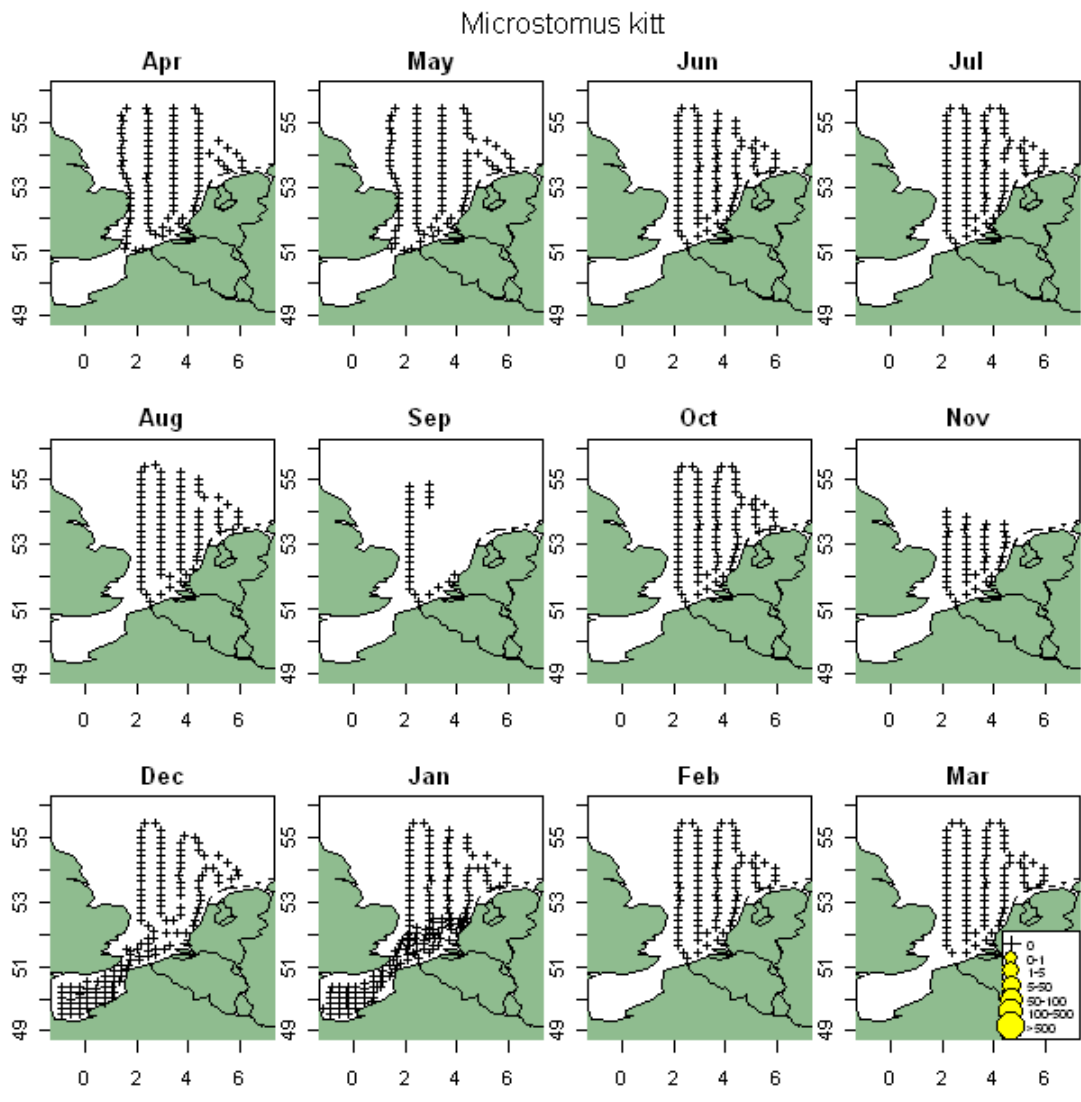


Figure 59f. Spatial and temporal distribution of yolk sac lemon sole larvae.

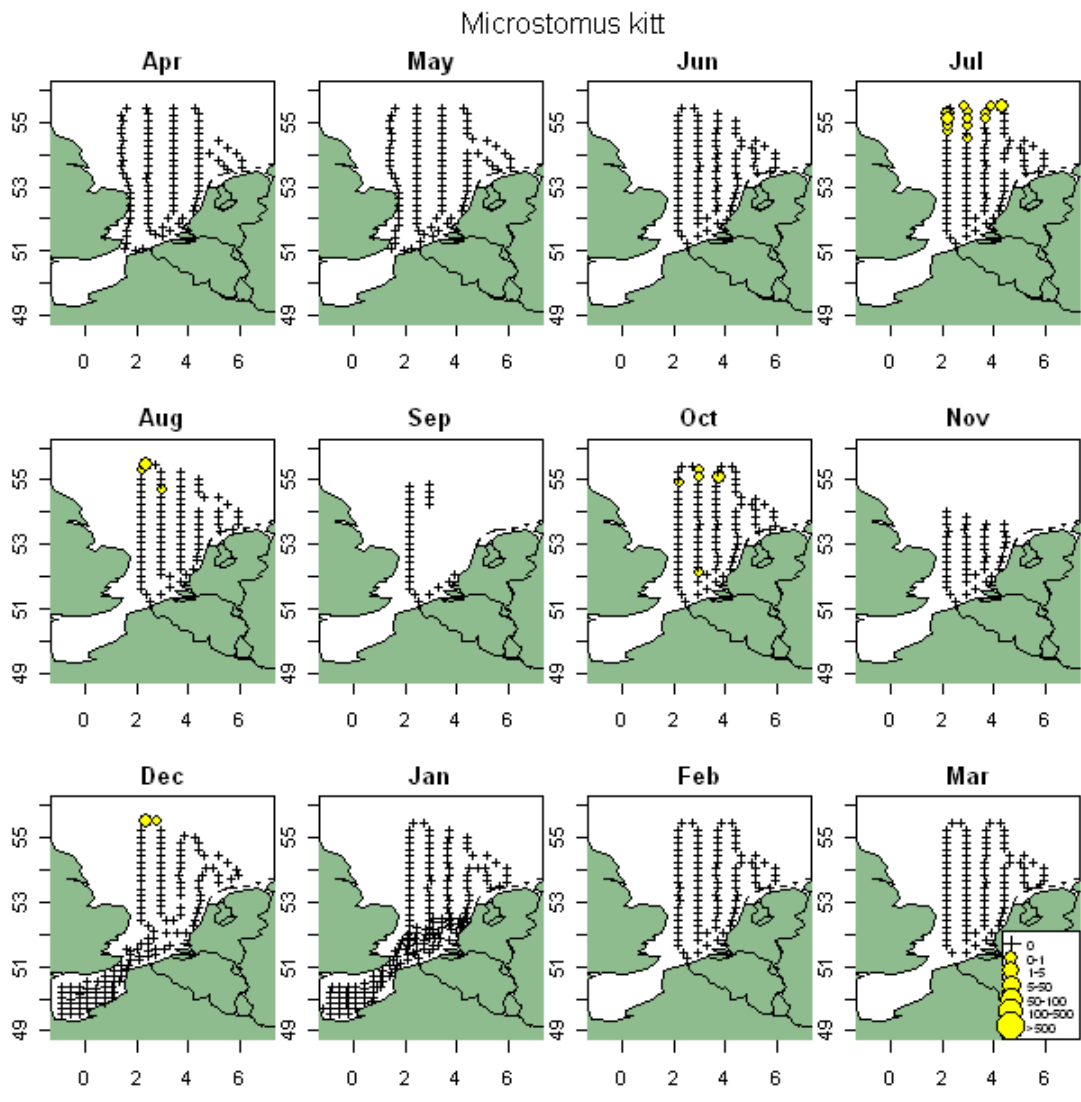


Figure 59g. Spatial and temporal distribution of non-yolk sac lemon sole larvae.

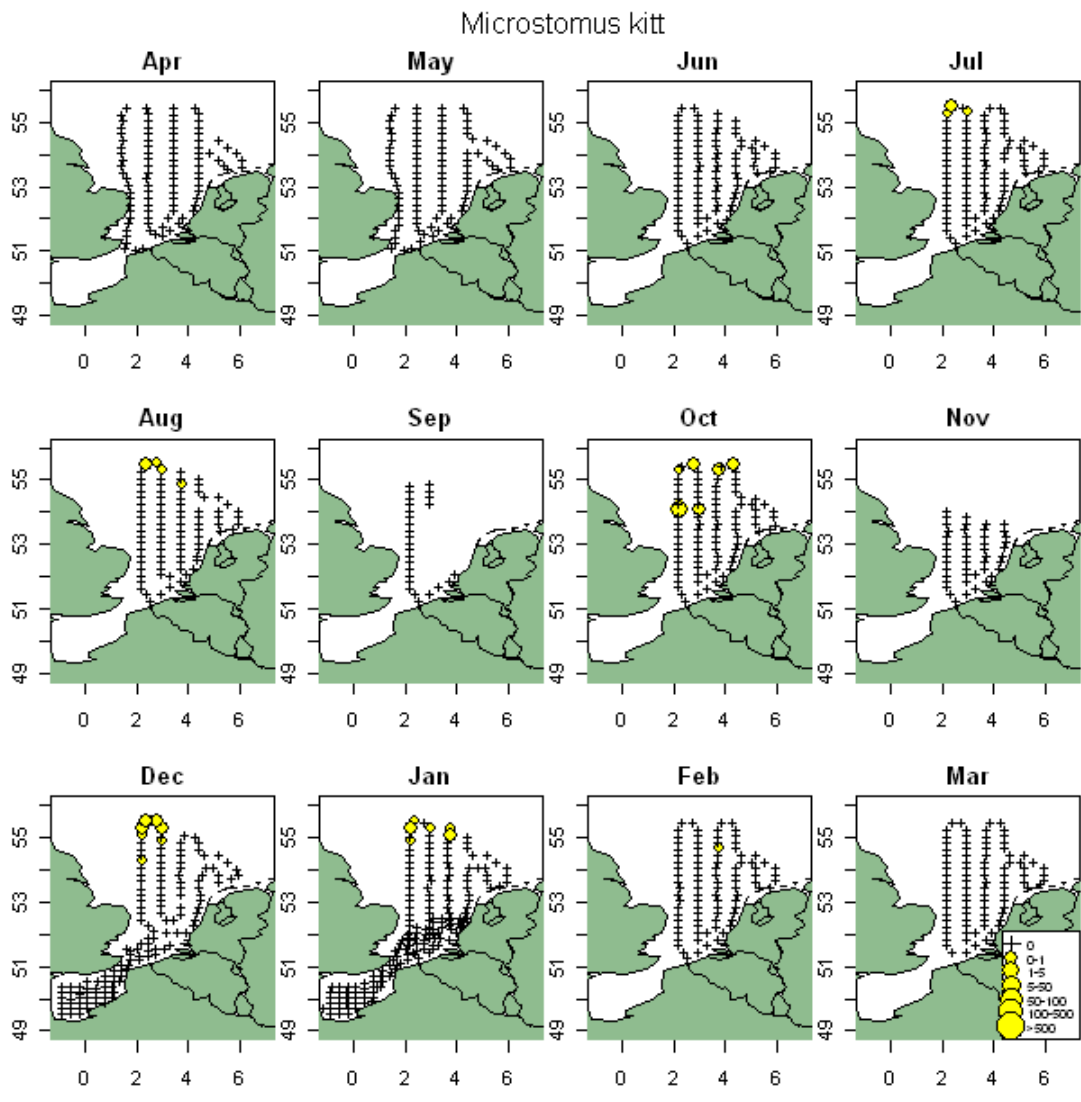


Figure 59h. Spatial and temporal distribution of bent notochord stage lemon sole larvae.

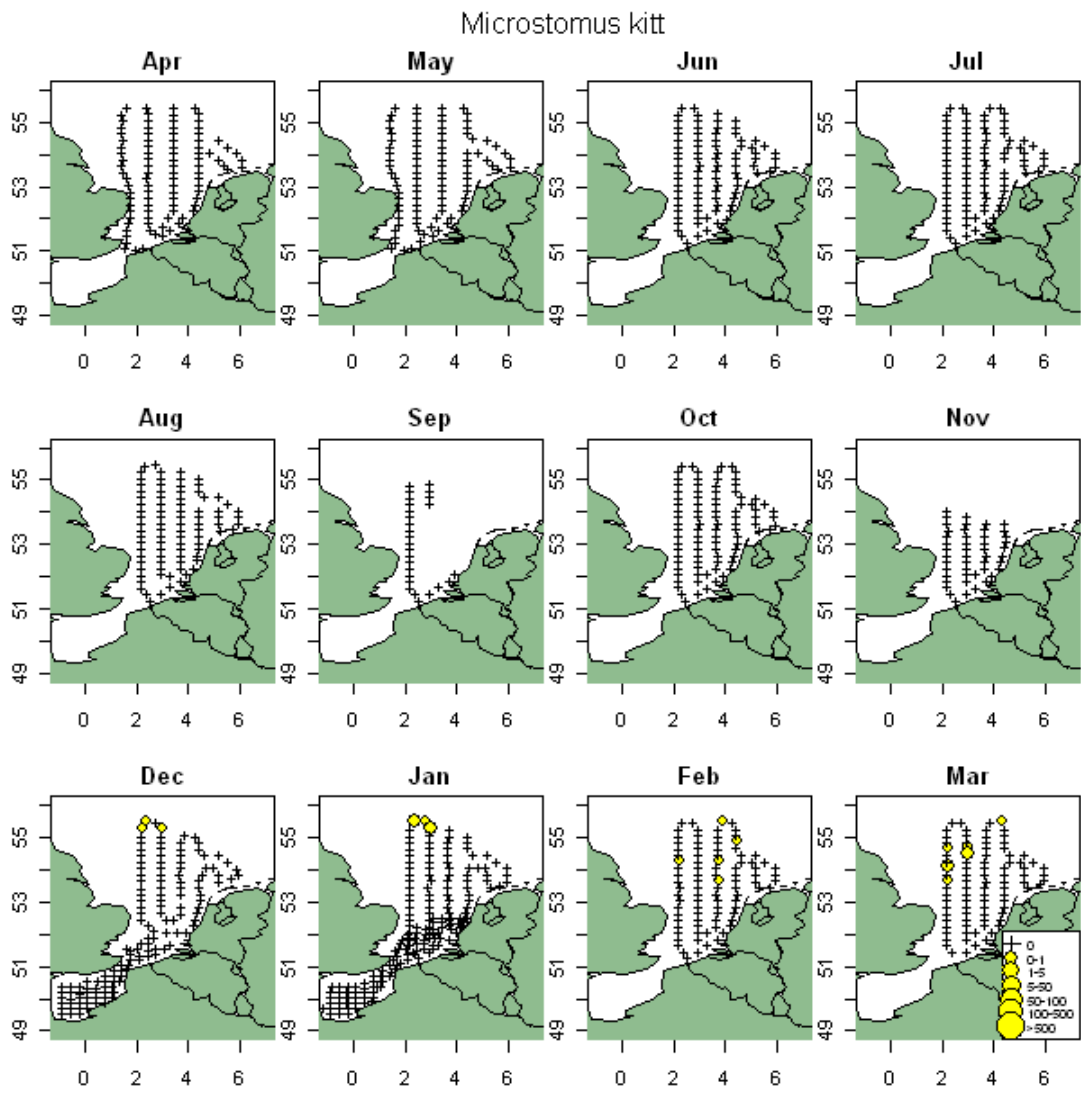


Figure 59i. Spatial and temporal distribution of metamorphosing lemon sole larvae.

**Witch flounder *Glyptocephalus cynoglossus***

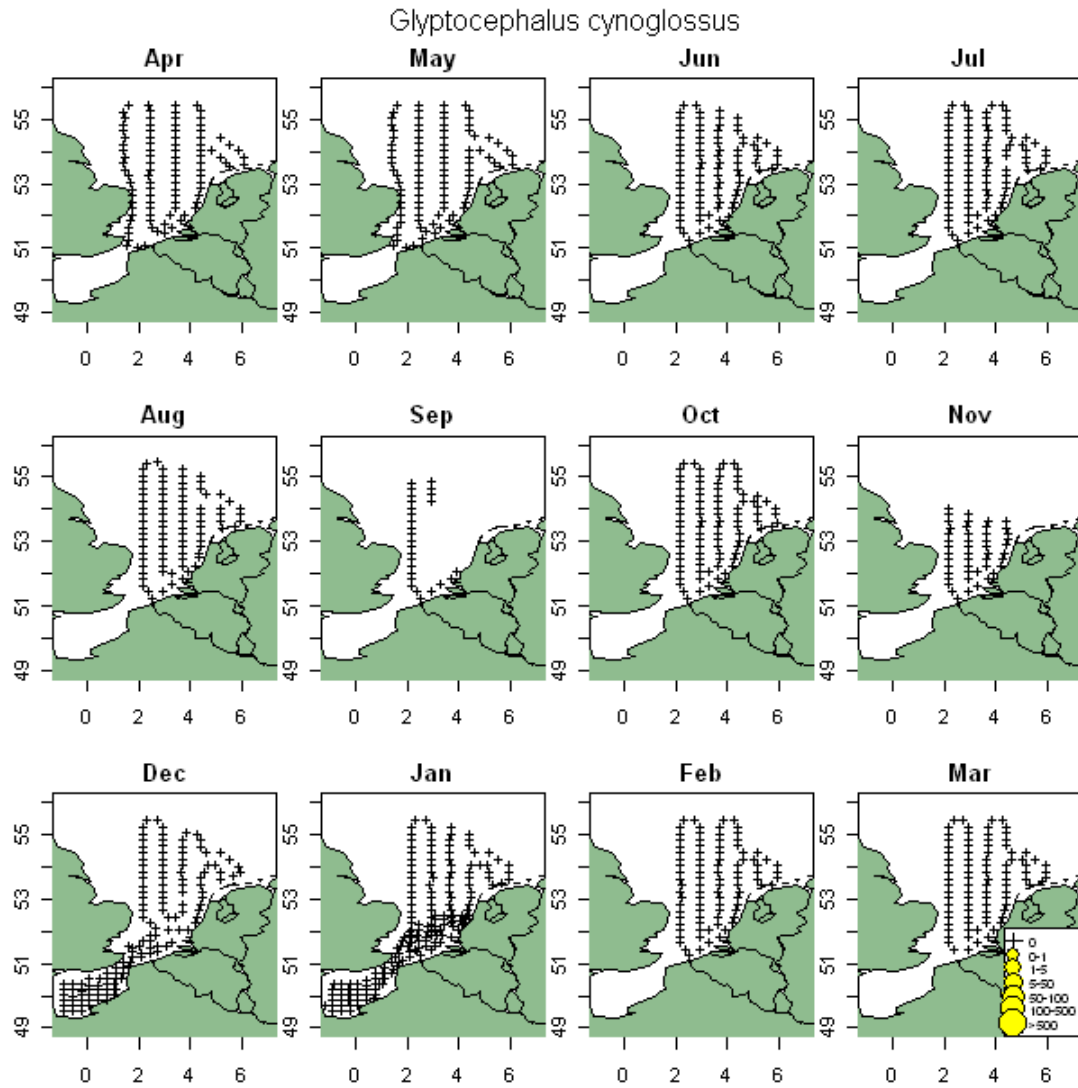


Figure 60a. Spatial and temporal distribution of yolk sac witch flounder larvae.

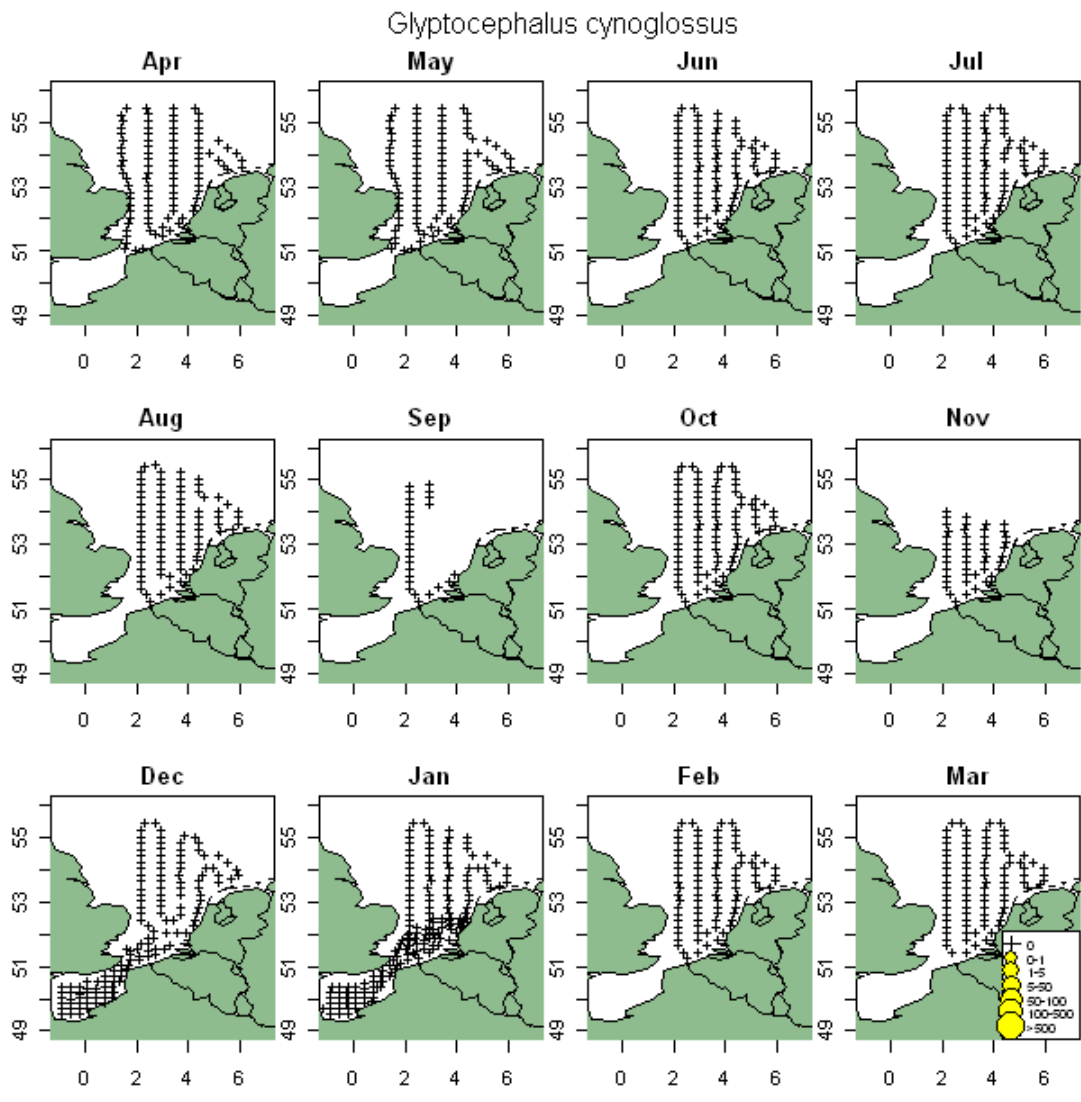


Figure 60b. Spatial and temporal distribution of non-yolk sac witch flounder larvae.



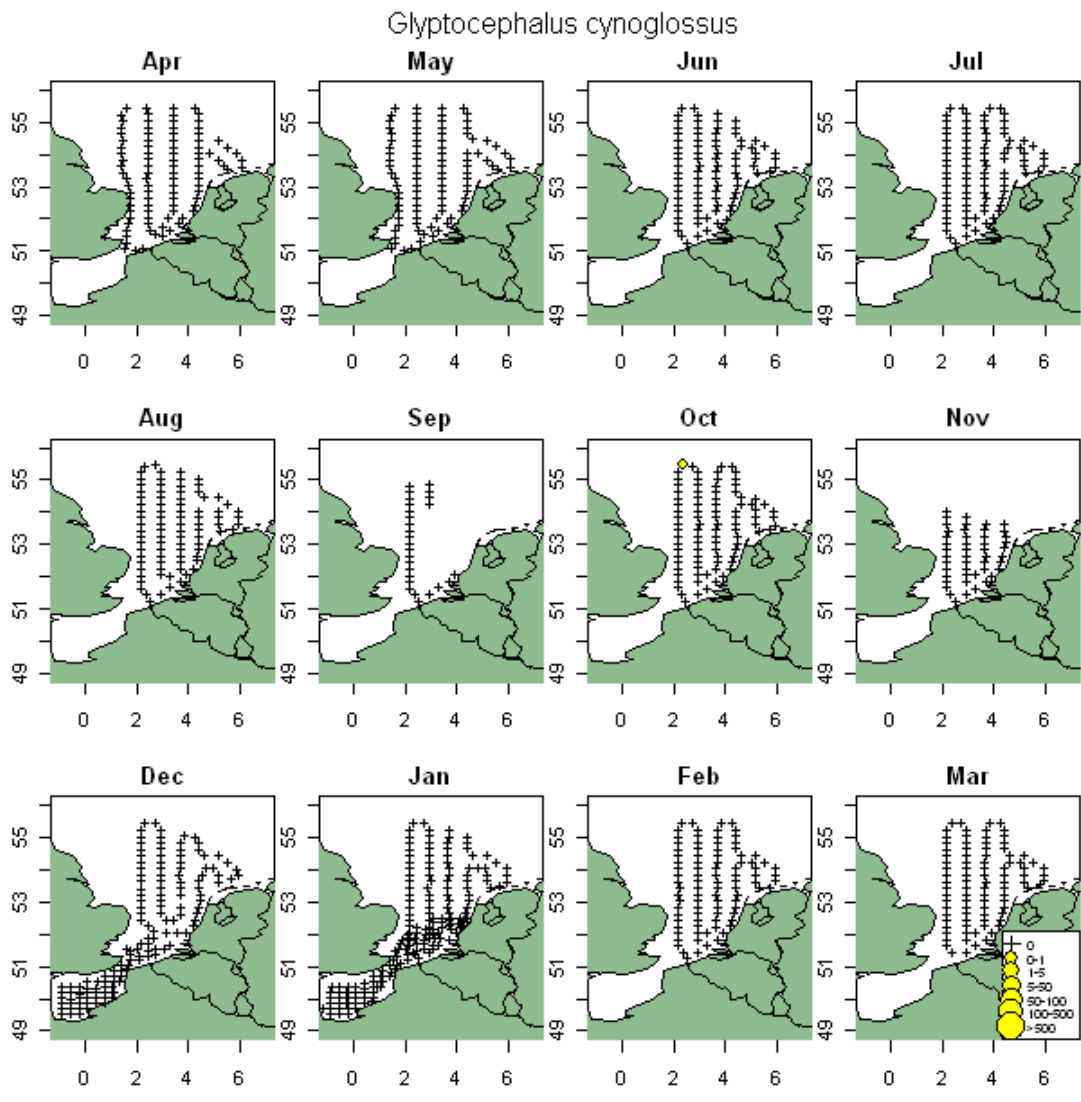


Figure 60c. Spatial and temporal distribution of bent notochord stage witch flounder larvae.

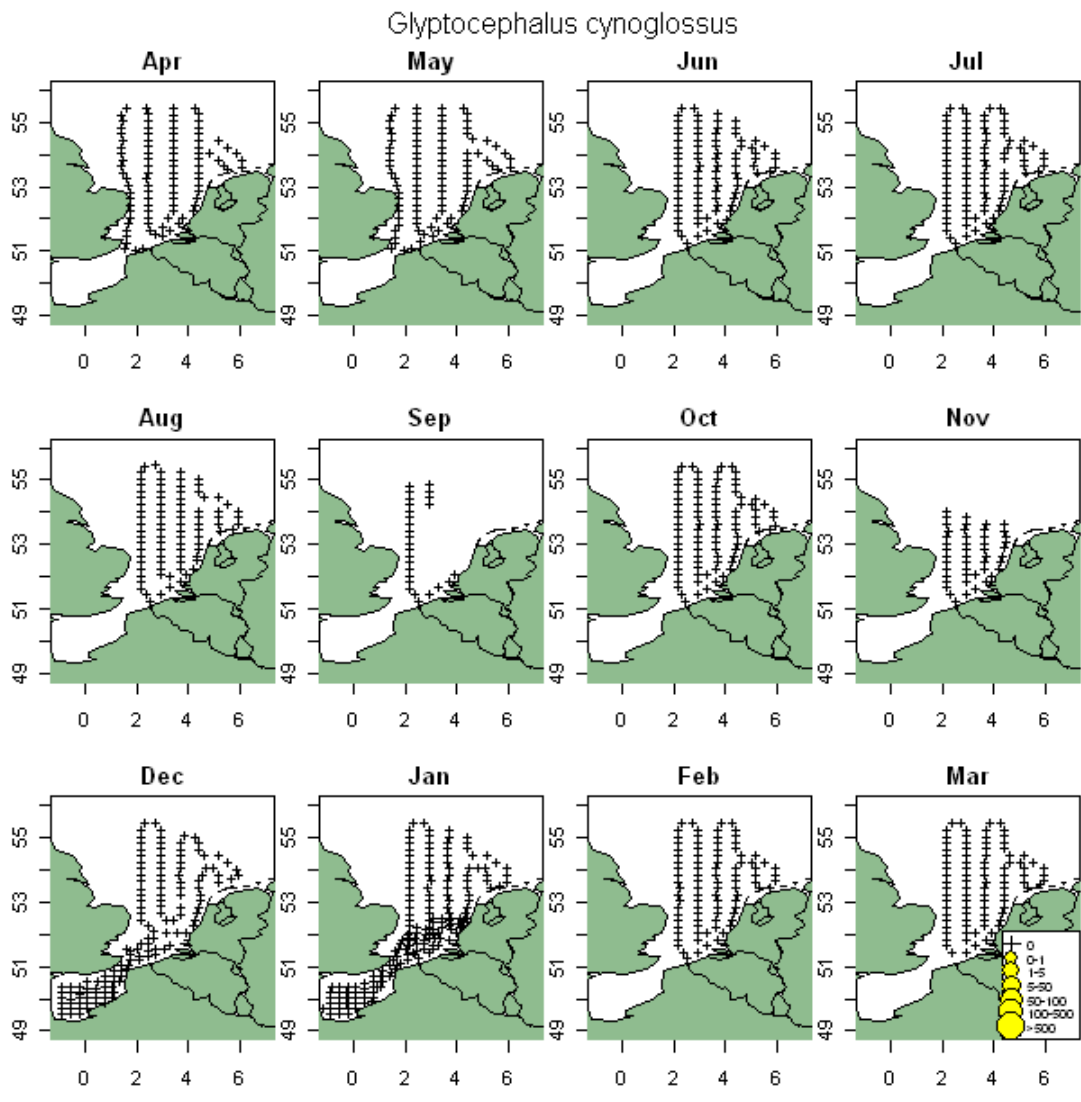


Figure 60d. Spatial and temporal distribution of metamorphosing witch flounder larvae.

**Flounder *Platichthys flesus***

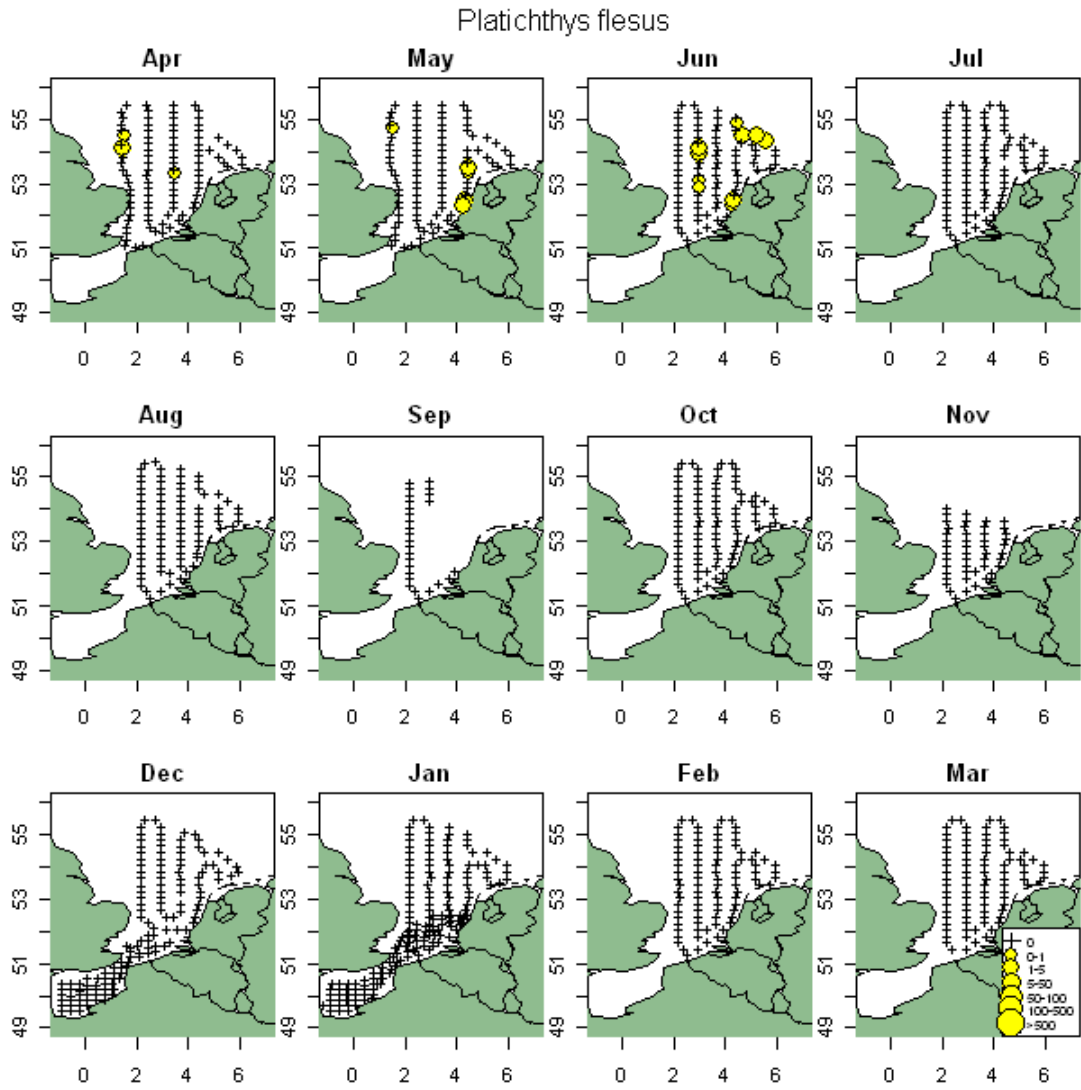


Figure 61a. Spatial and temporal distribution of stage 1 flounder eggs.

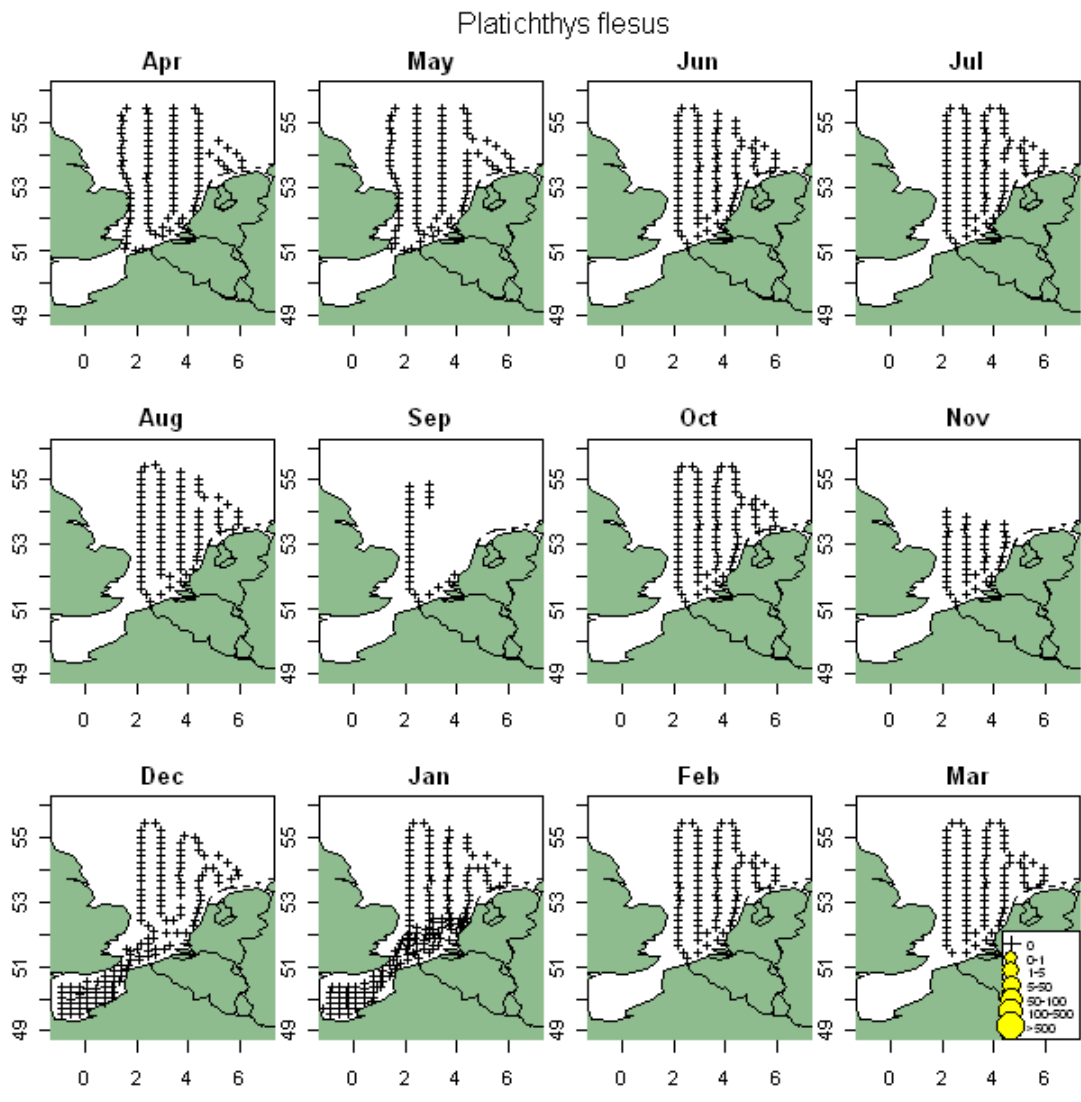


Figure 61b. Spatial and temporal distribution of stage 2 flounder eggs.

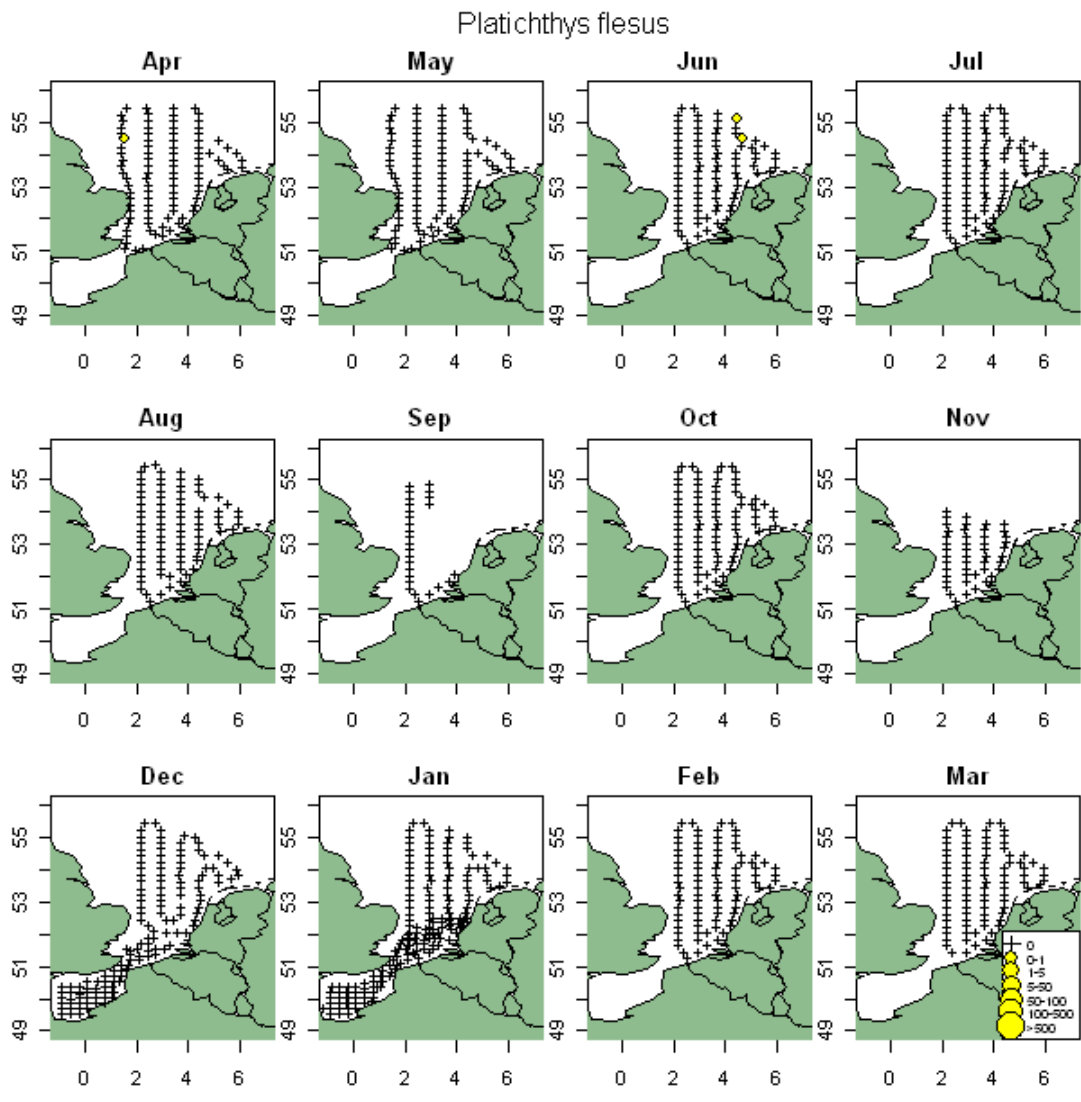


Figure 61c. Spatial and temporal distribution of stage 3 flounder eggs.

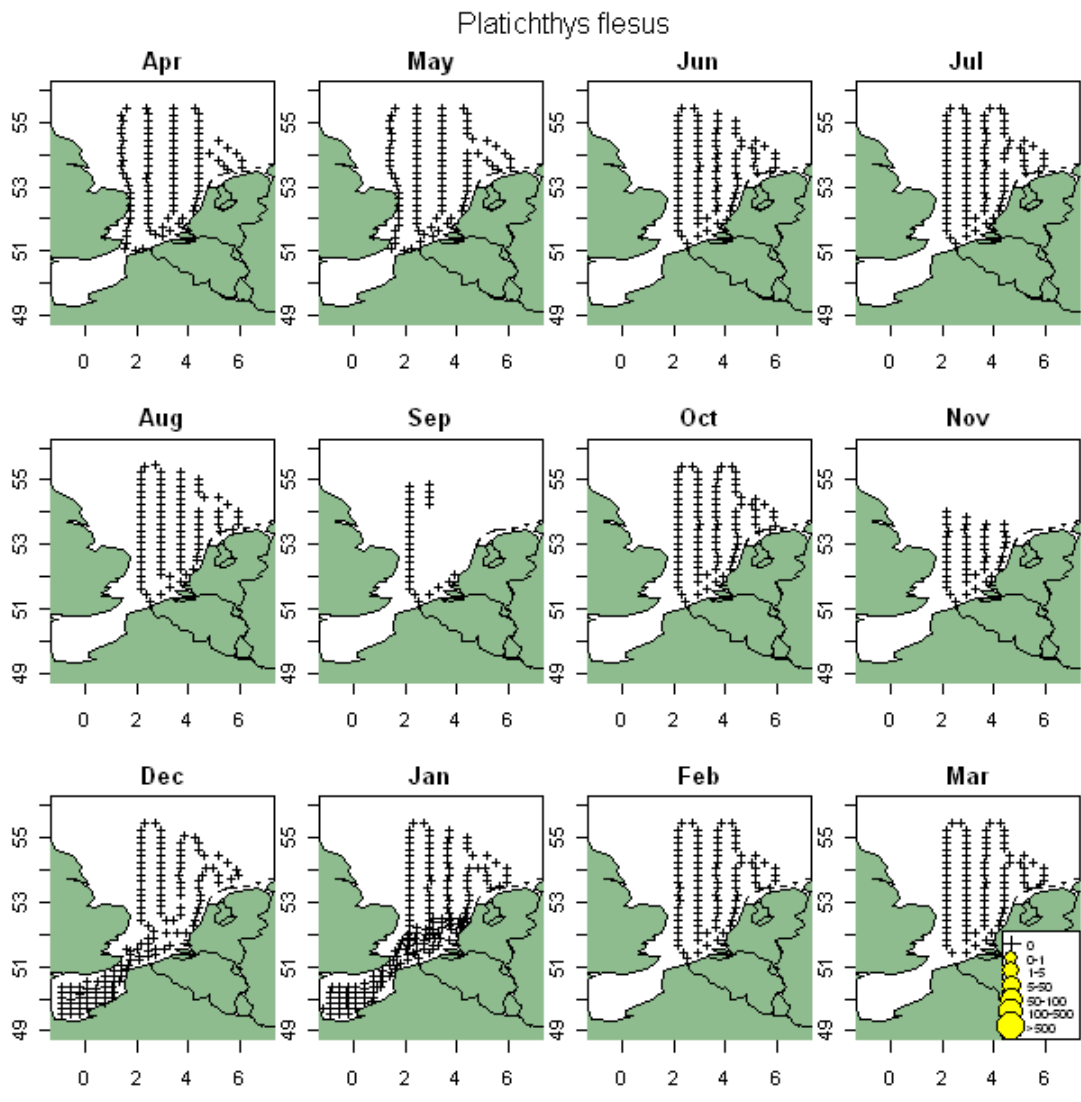


Figure 61d. Spatial and temporal distribution of stage 4 flounder eggs.

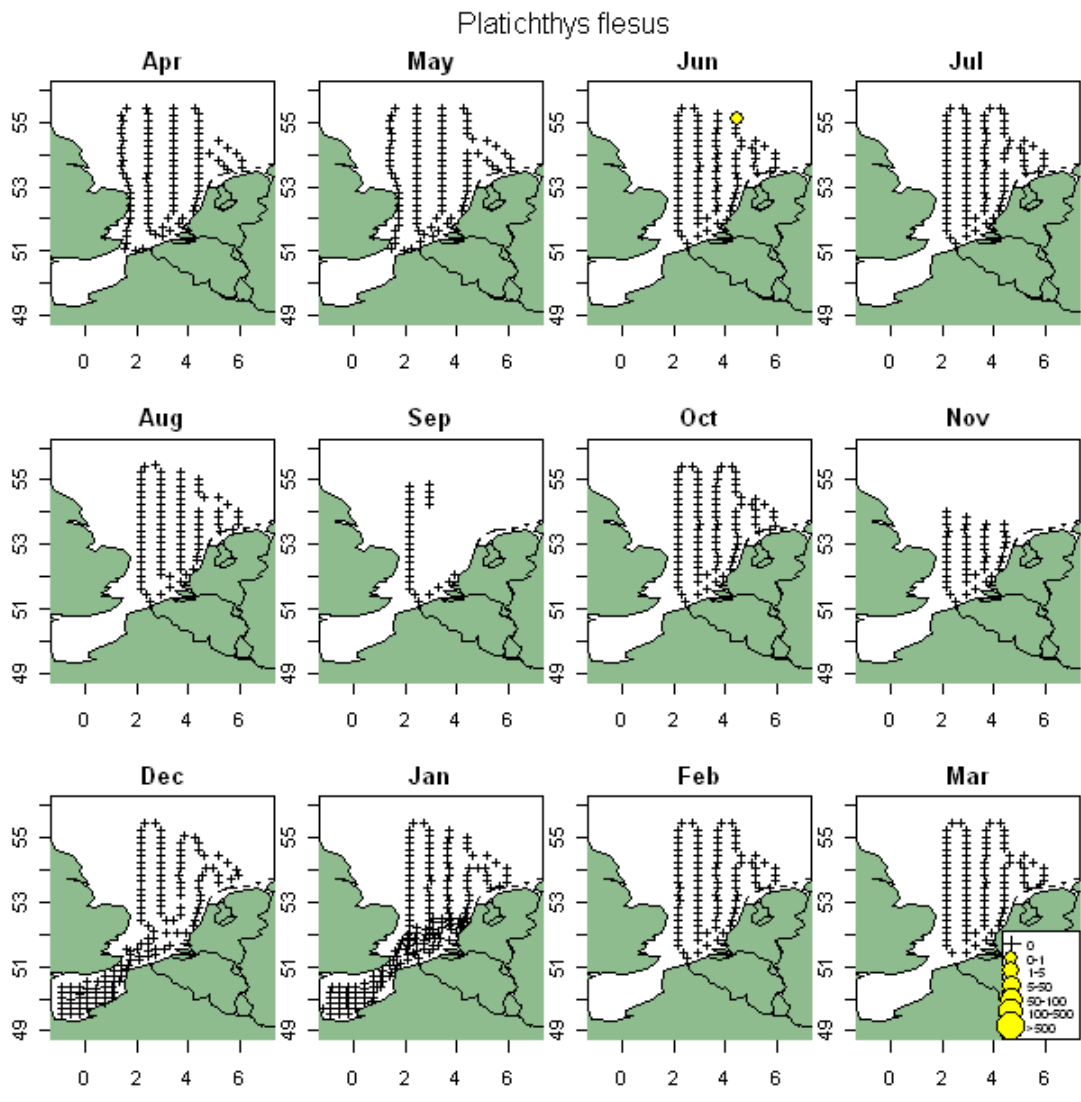


Figure 61e. Spatial and temporal distribution of stage 5 flounder eggs.

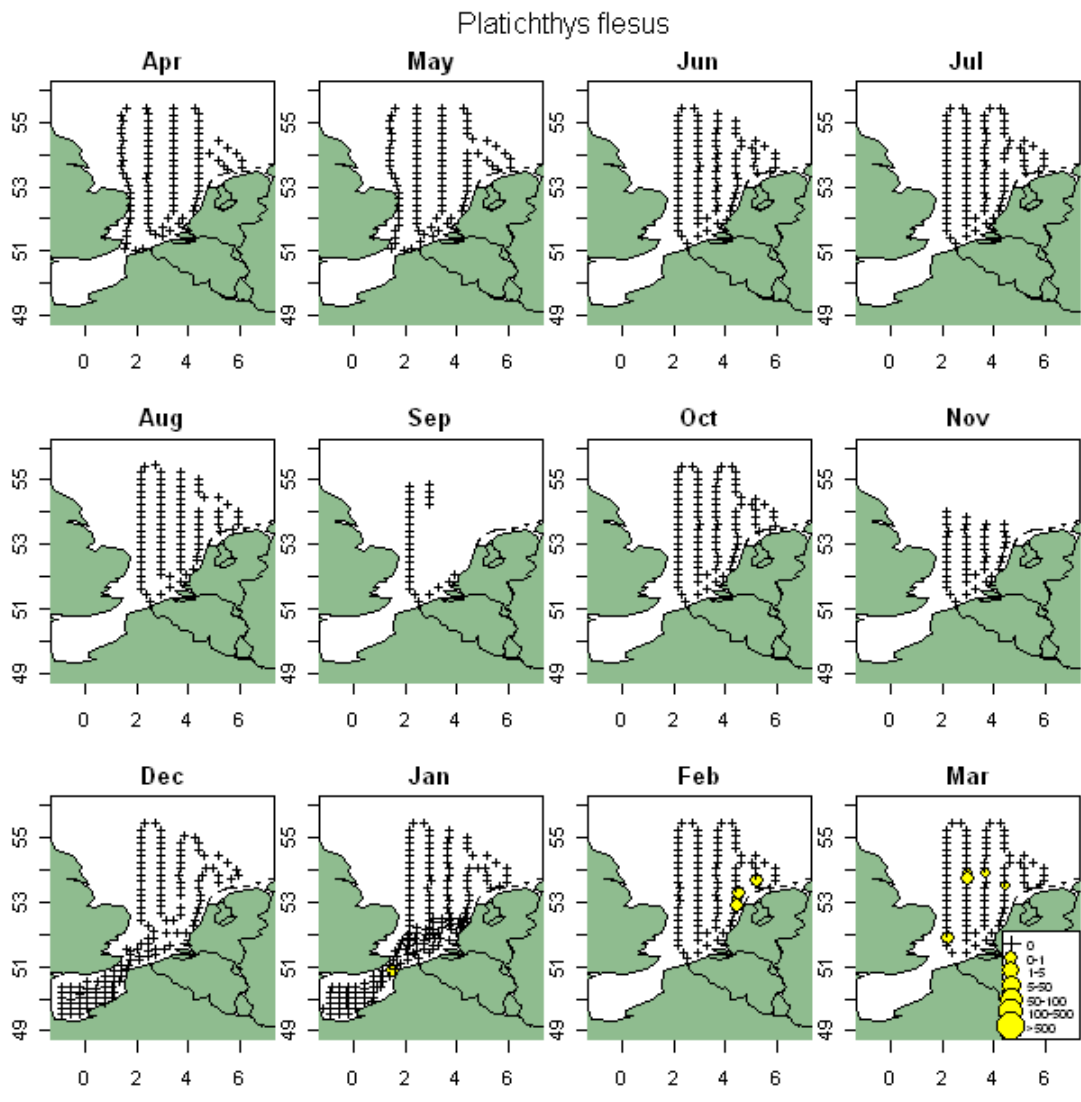


Figure 61f. Spatial and temporal distribution of yolk sac flounder larvae.



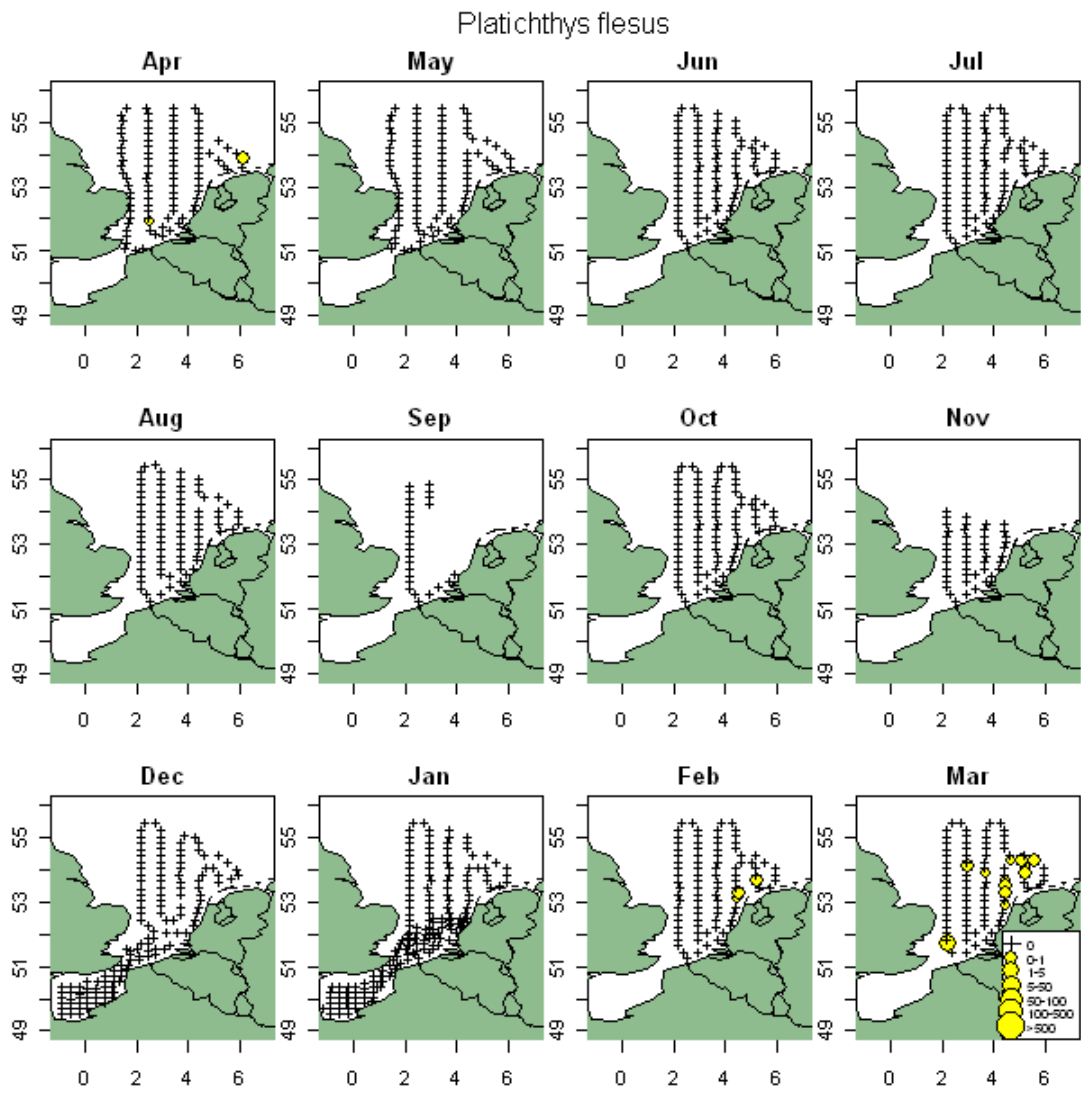


Figure 61g. Spatial and temporal distribution of non-yolk sac flounder larvae.

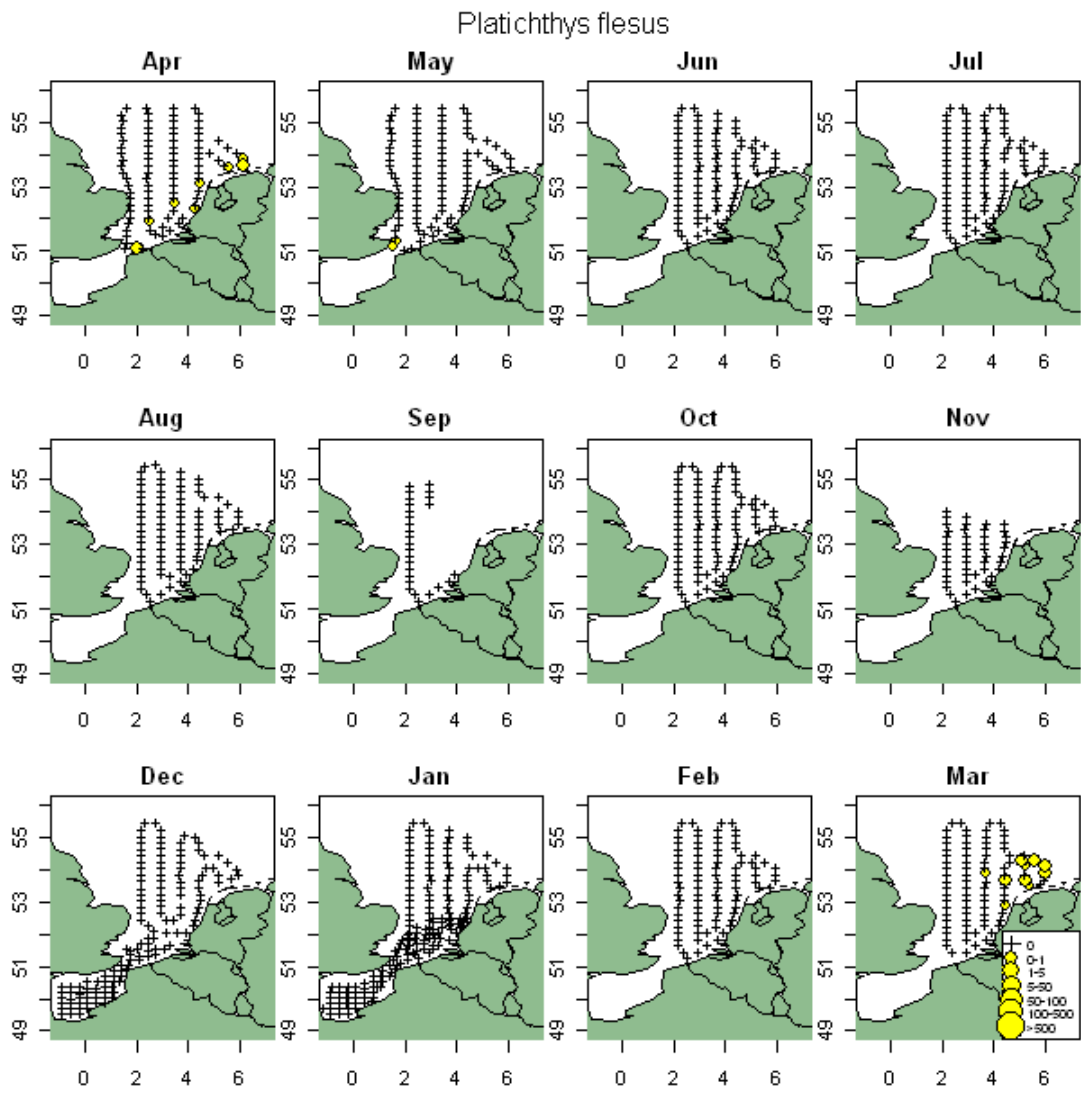


Figure 61h. Spatial and temporal distribution of bent notochord stage flounder larvae.

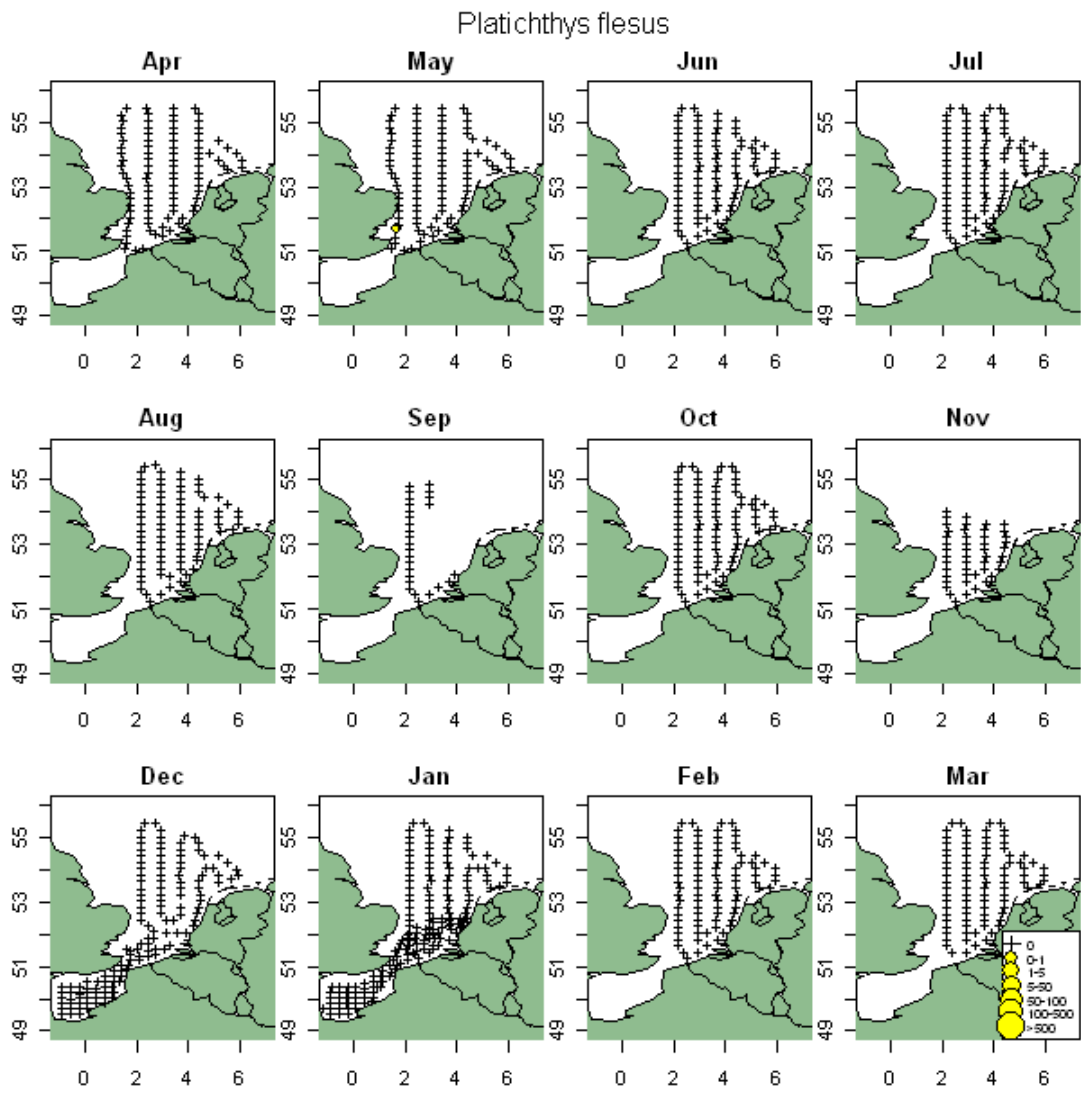


Figure 61i. Spatial and temporal distribution of metamorphosing flounder larvae.

## Soleidae

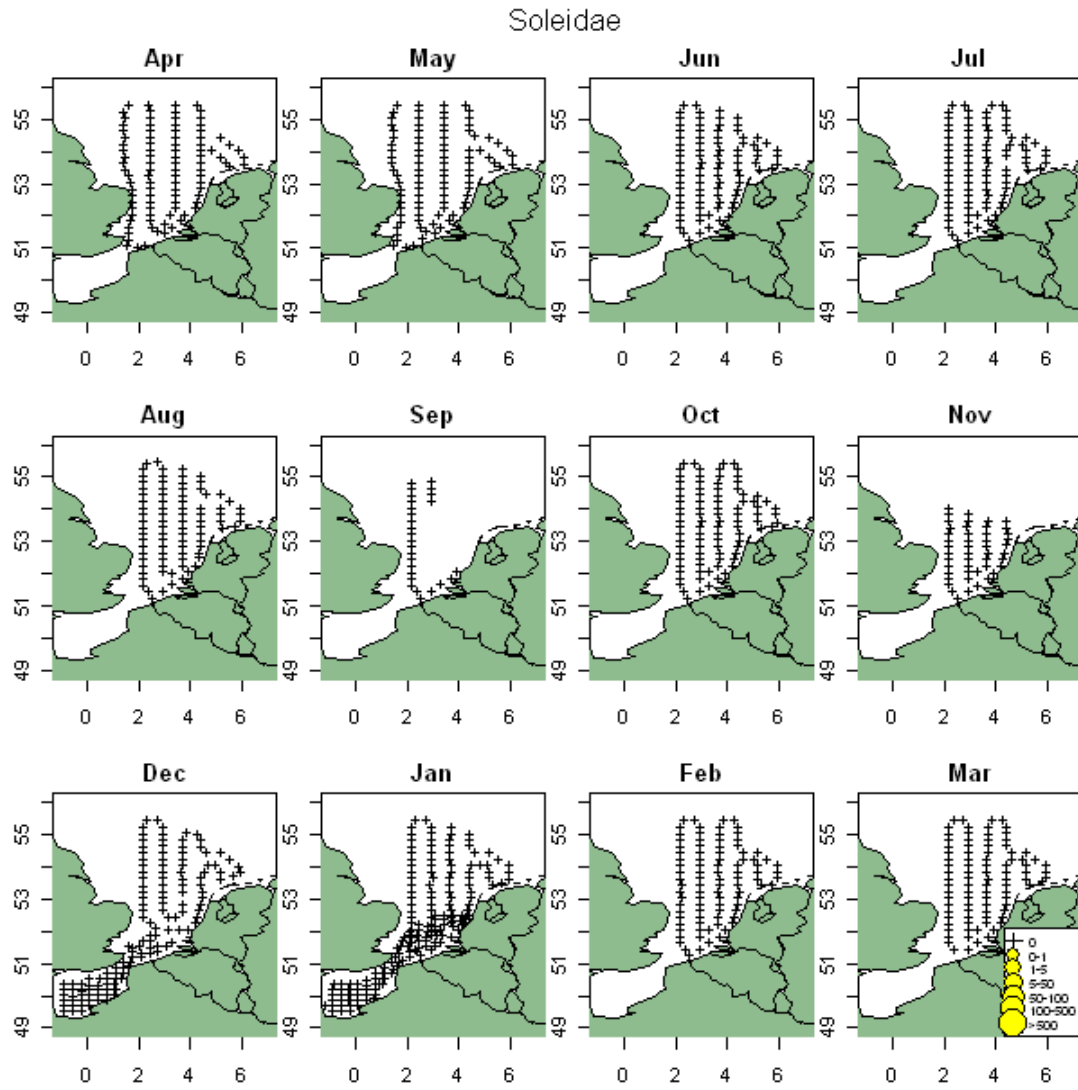


Figure 62a. Spatial and temporal distribution of yolk sac soleidae larvae.

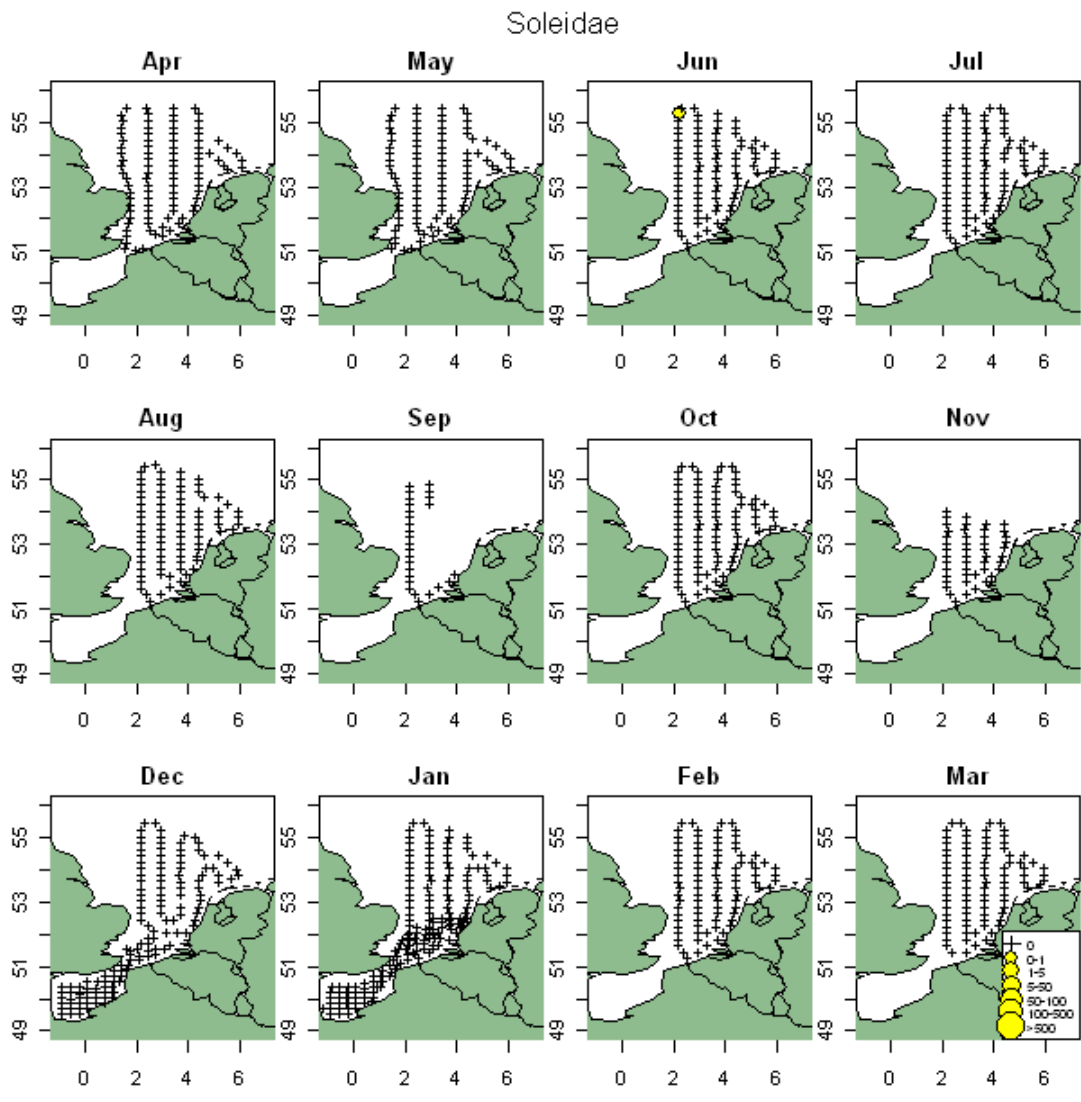


Figure 62b. Spatial and temporal distribution of non-yolk sac soleidae larvae.

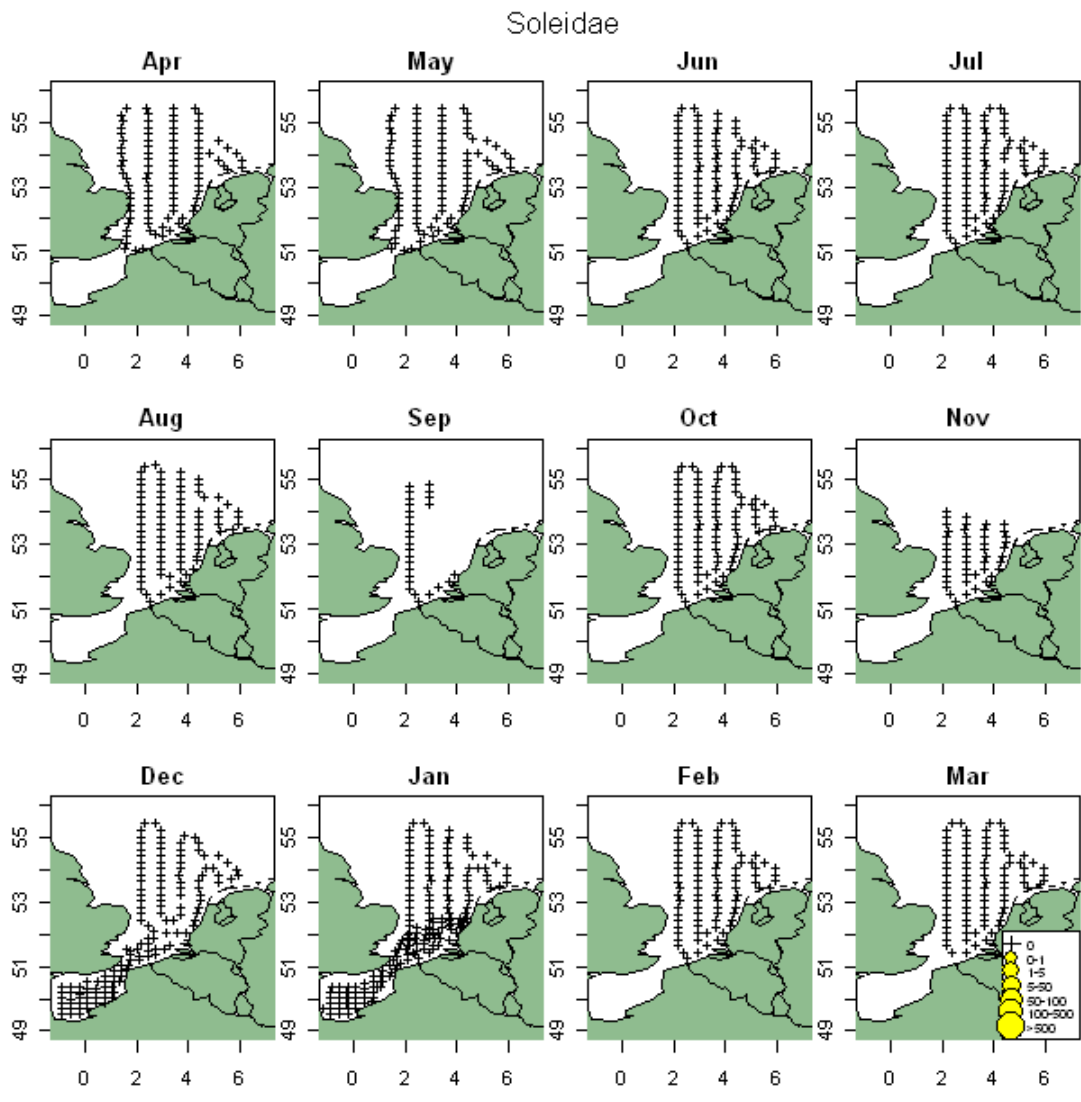


Figure 62c. Spatial and temporal distribution of bent notochord stage soleidae larvae.

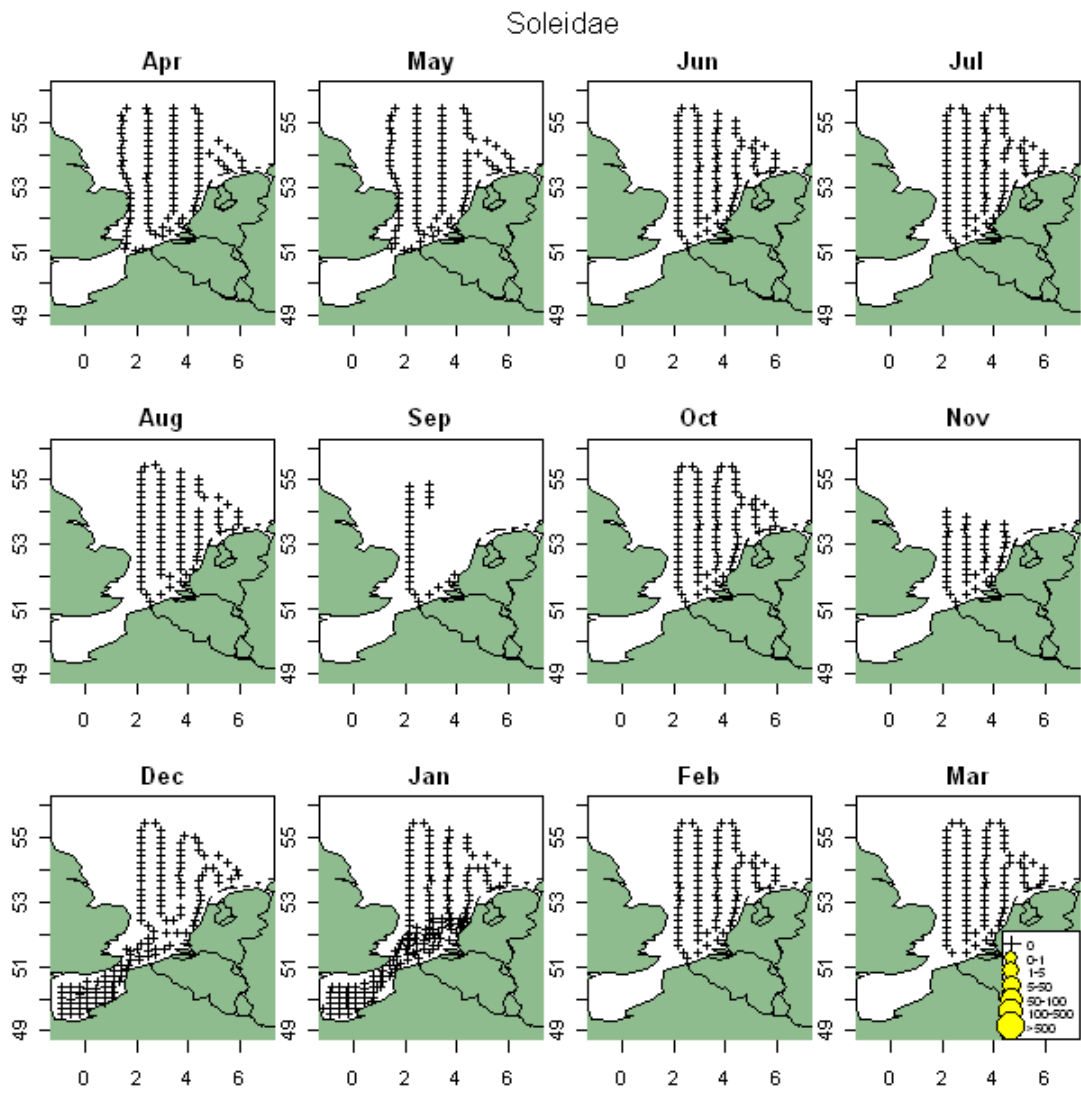


Figure 62d. Spatial and temporal distribution of metamorphosing soleidae larvae.

**Sole *Solea solea***

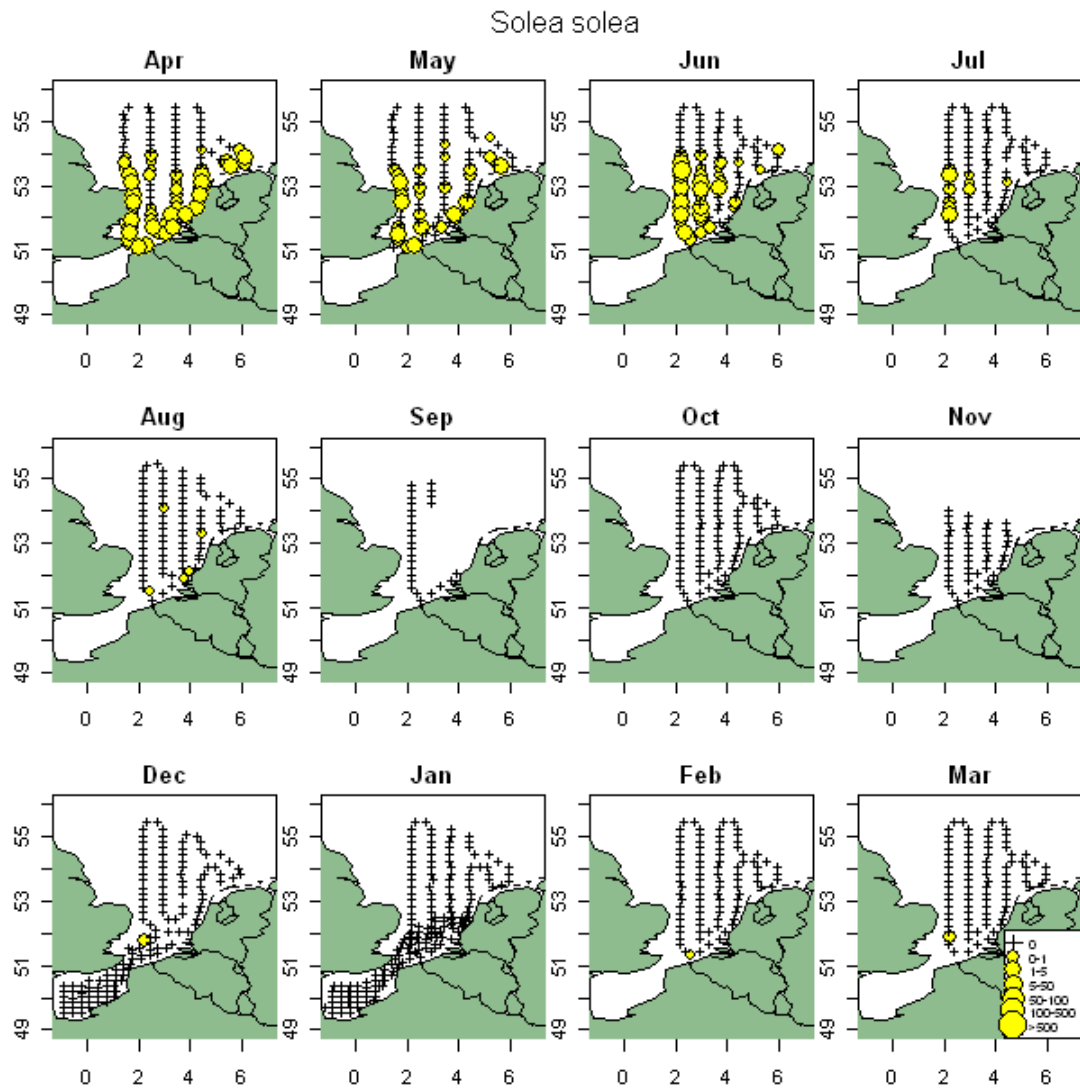


Figure 63a. Spatial and temporal distribution of stage 1 sole eggs.



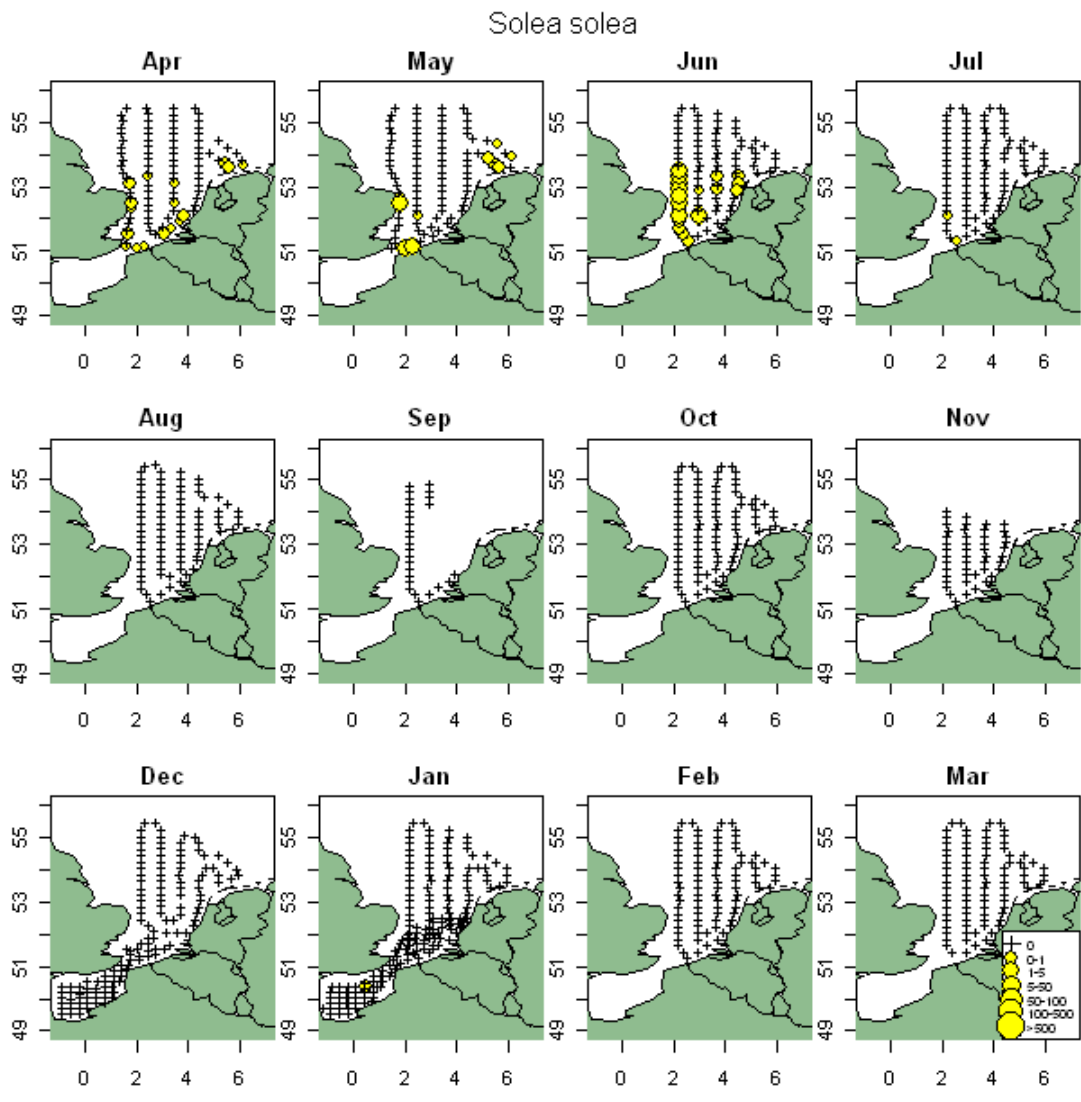


Figure 63b. Spatial and temporal distribution of stage 2 sole eggs.

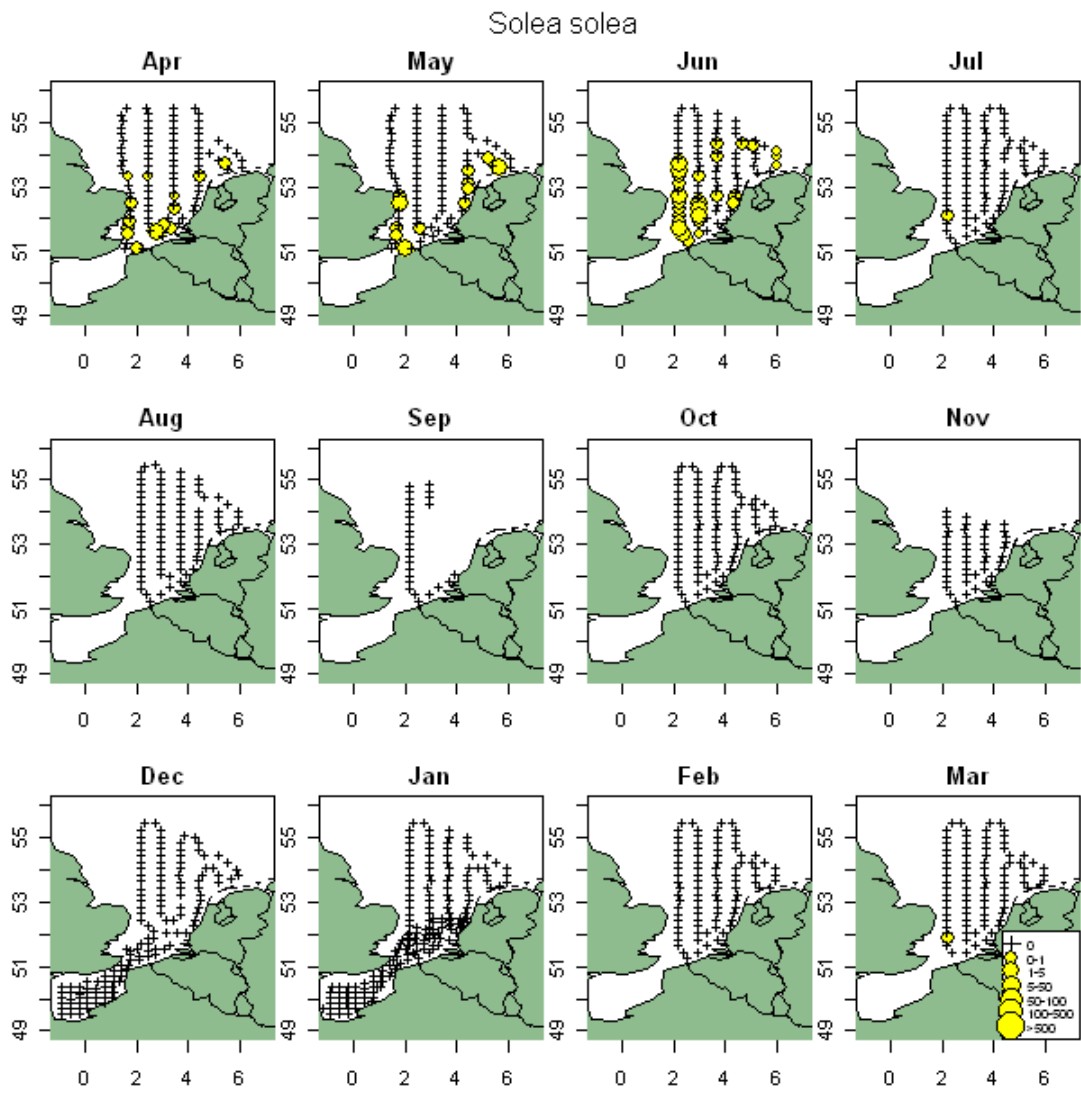


Figure 63c. Spatial and temporal distribution of stage 3 sole eggs.

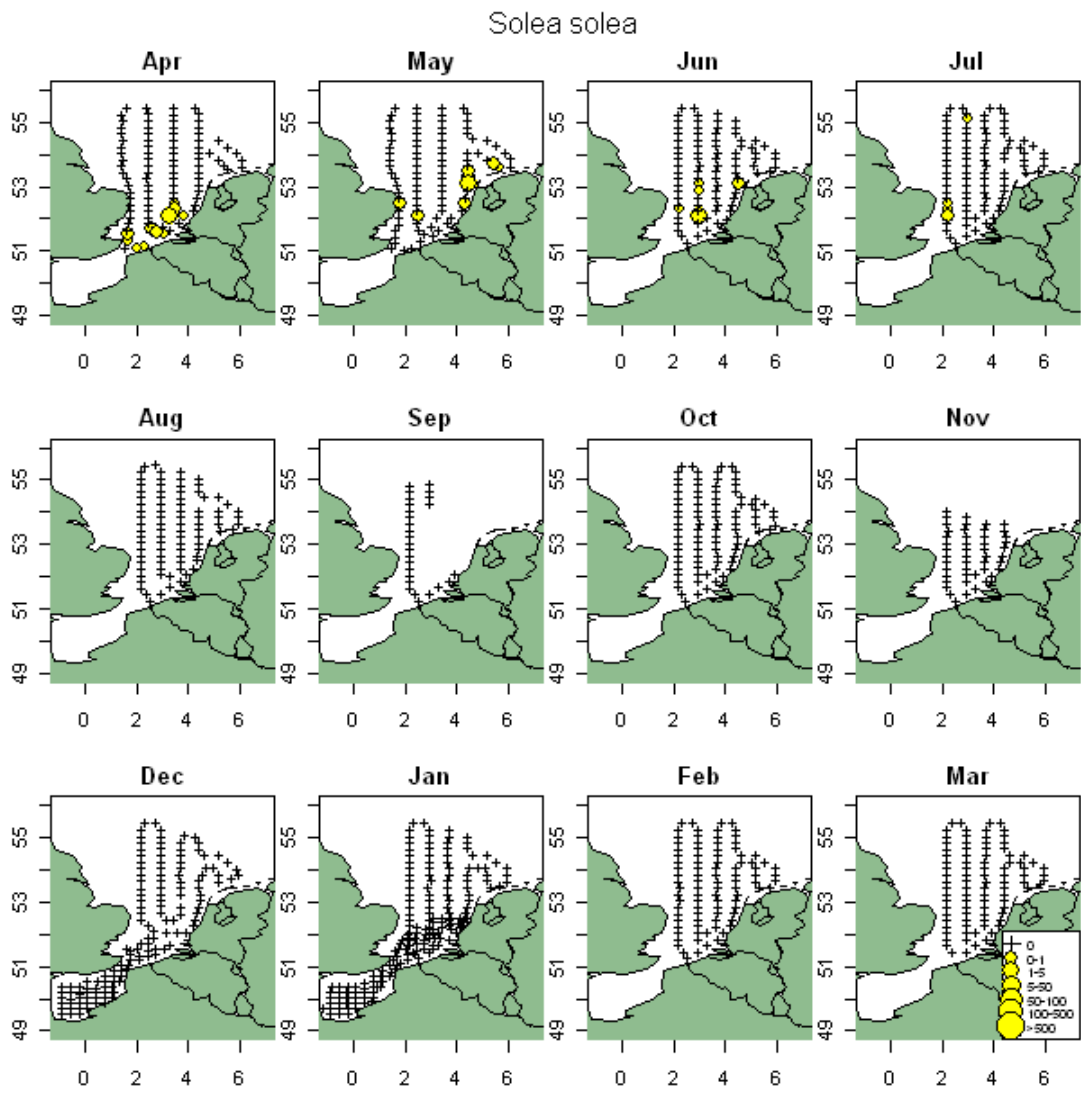


Figure 63d. Spatial and temporal distribution of stage 4 sole eggs.

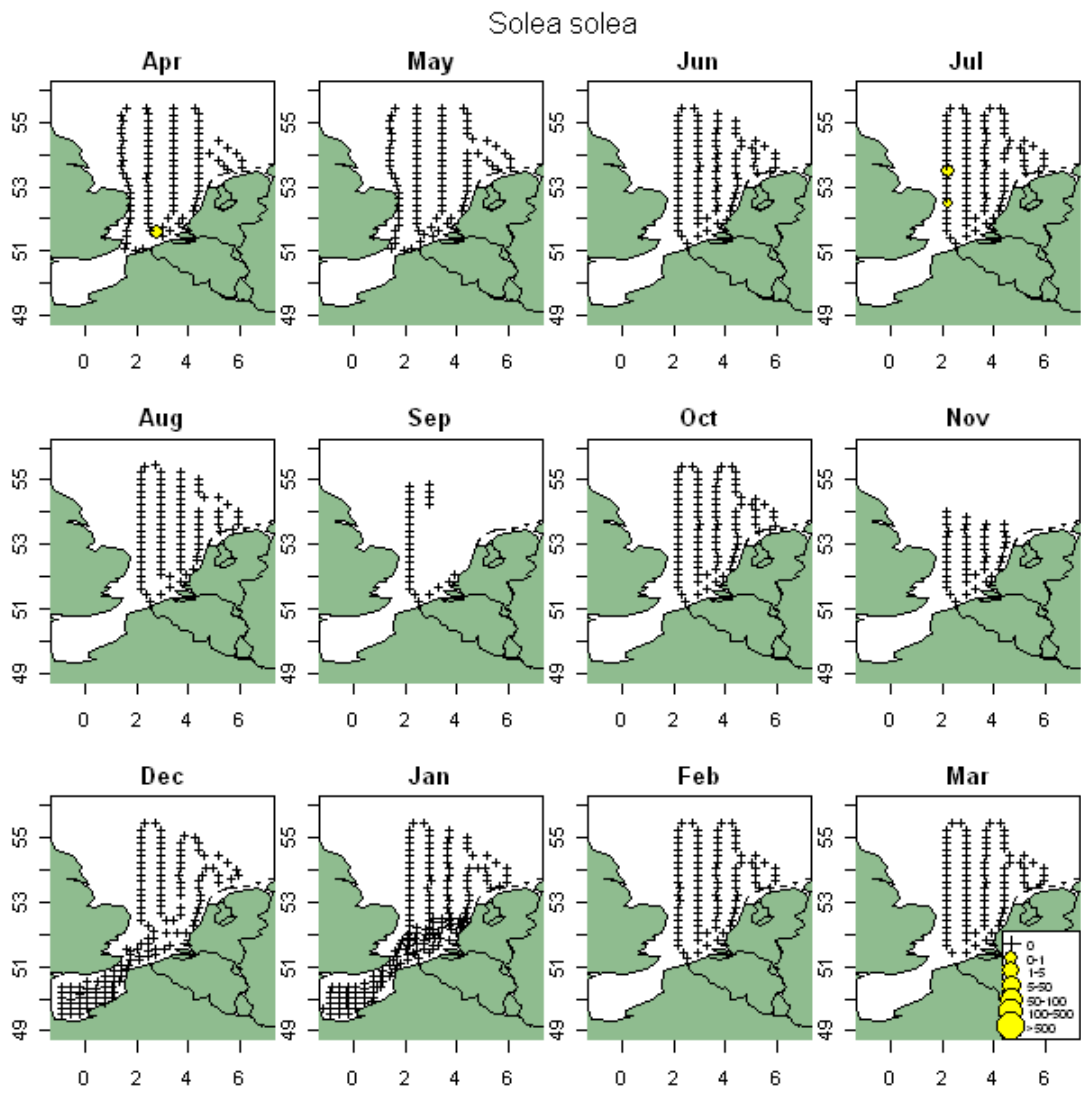


Figure 63e. Spatial and temporal distribution of stage 5 sole eggs.

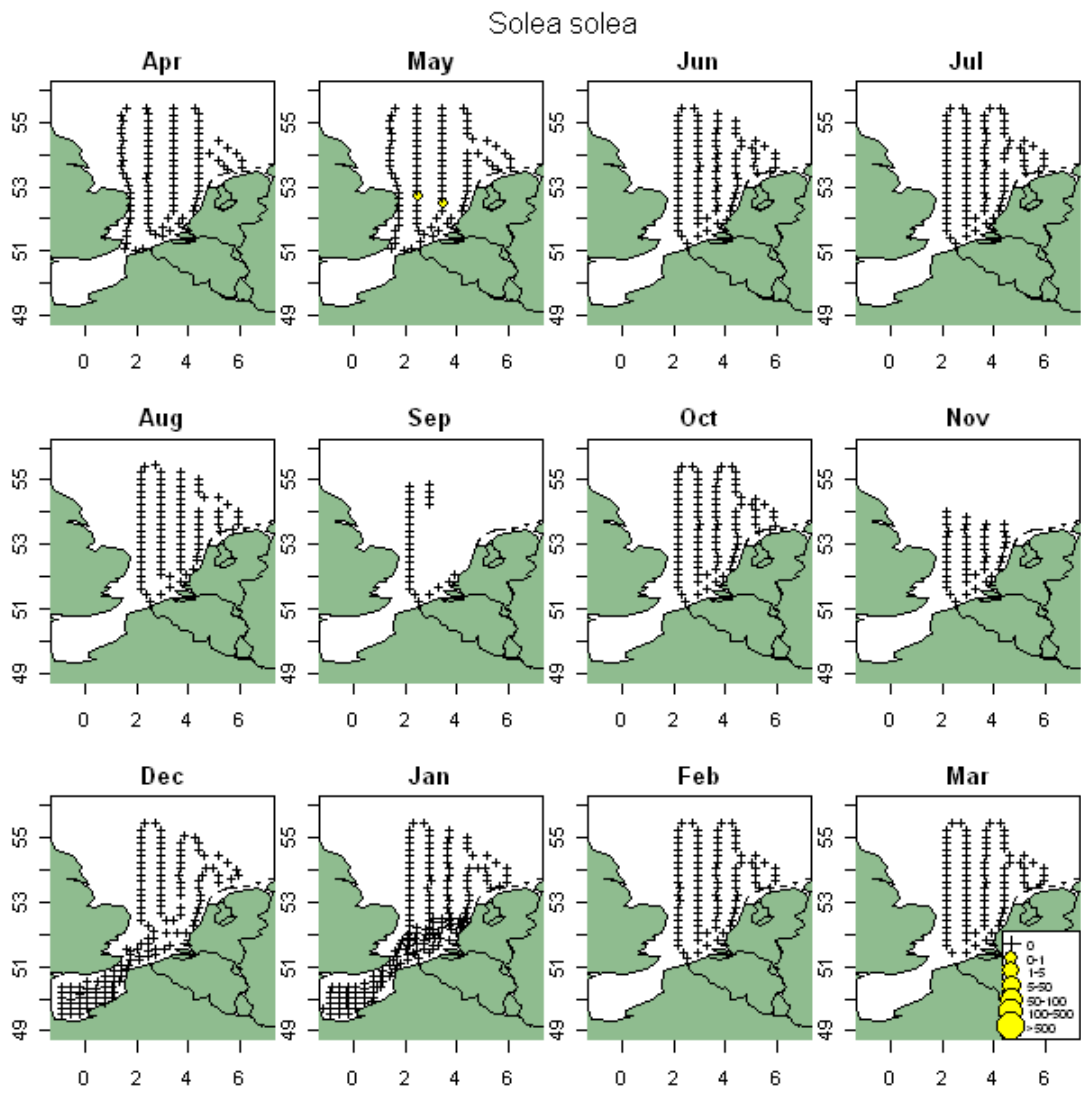


Figure 63f. Spatial and temporal distribution of yolk sac sole larvae.

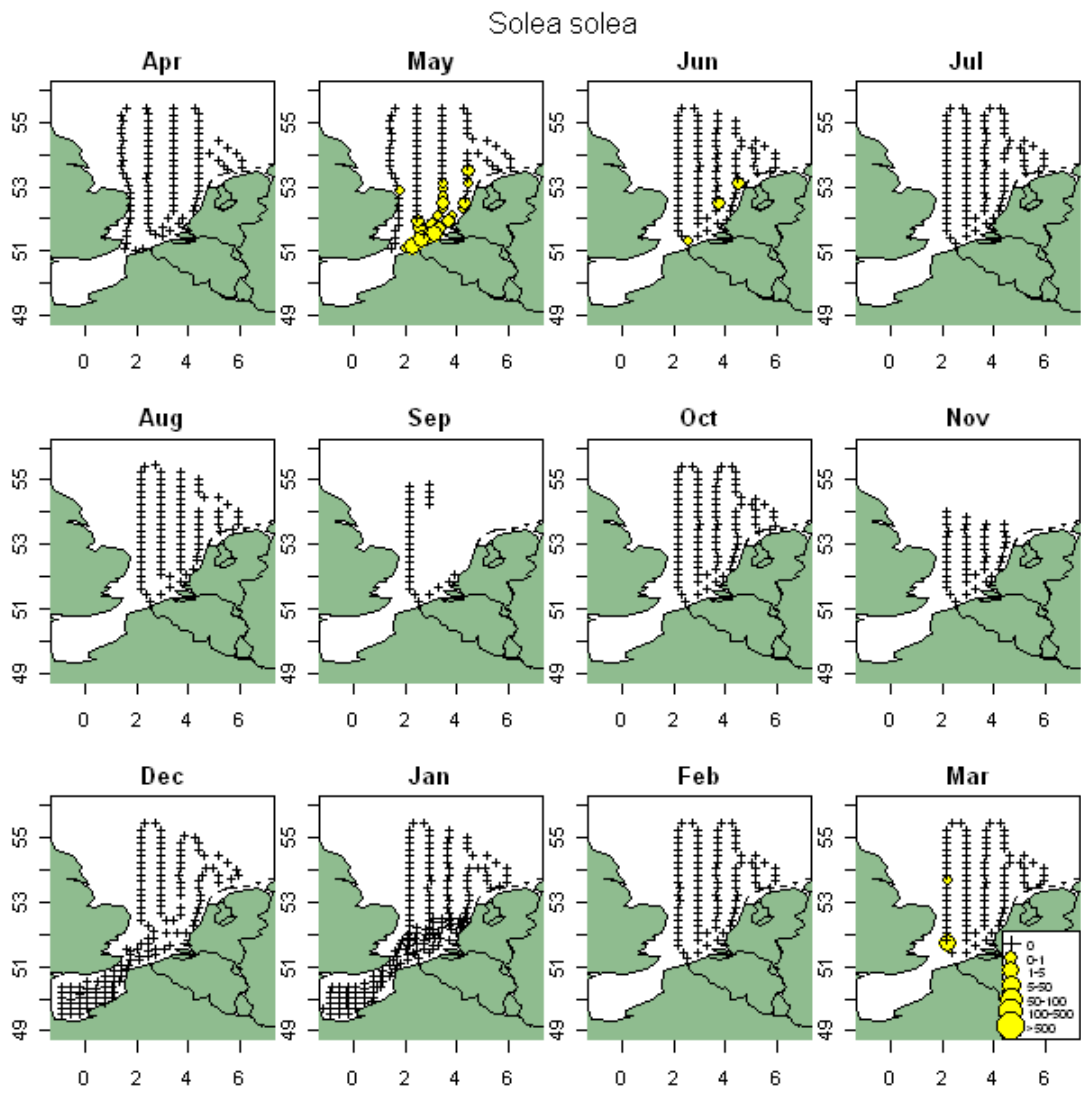


Figure 63g. Spatial and temporal distribution of non-yolk sac sole larvae.

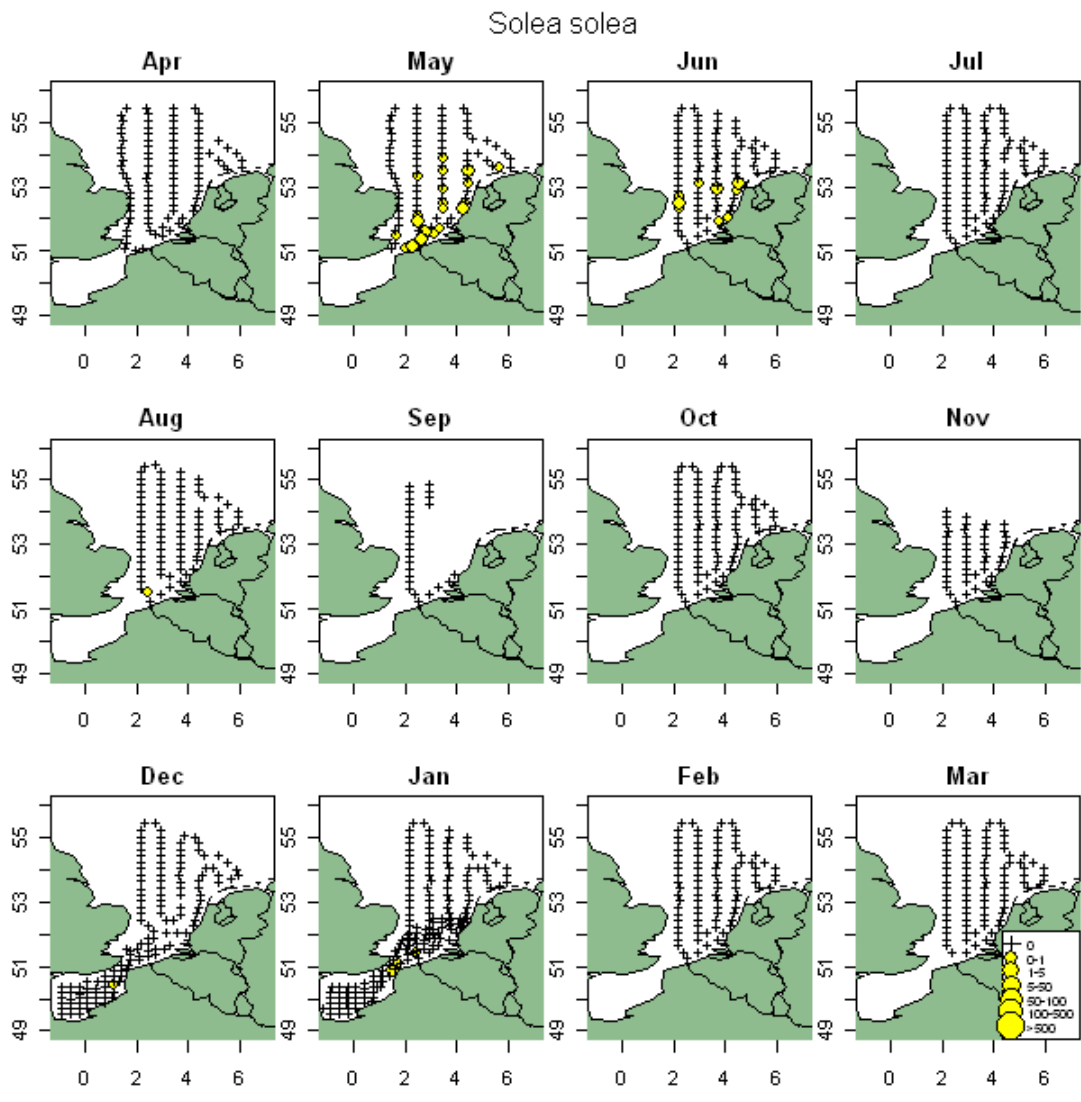


Figure 63h. Spatial and temporal distribution of bent notochord stage sole larvae.

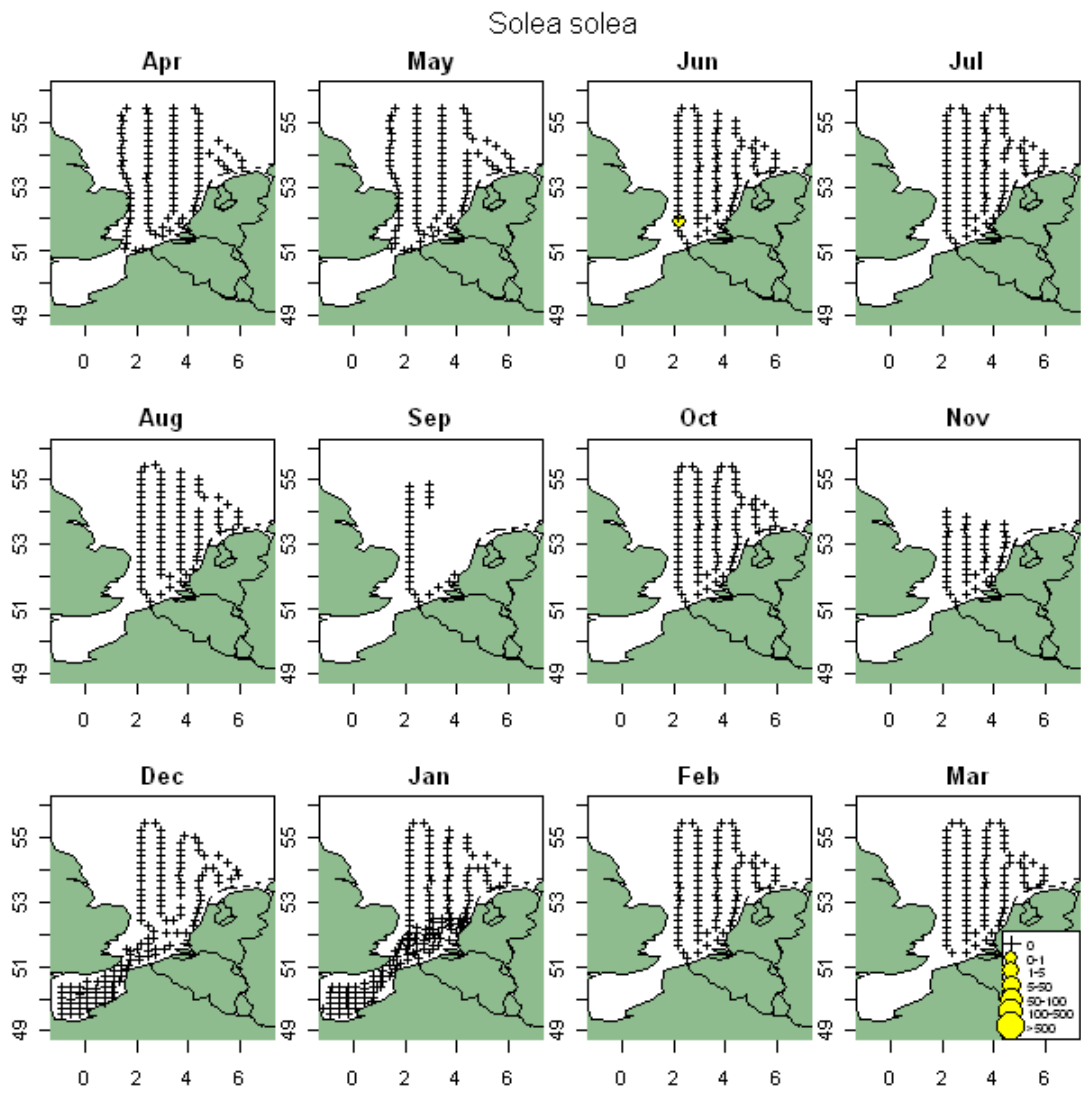


Figure 63i. Spatial and temporal distribution of metamorphosing sole larvae.



**Solenette *Buglossidium luteum***

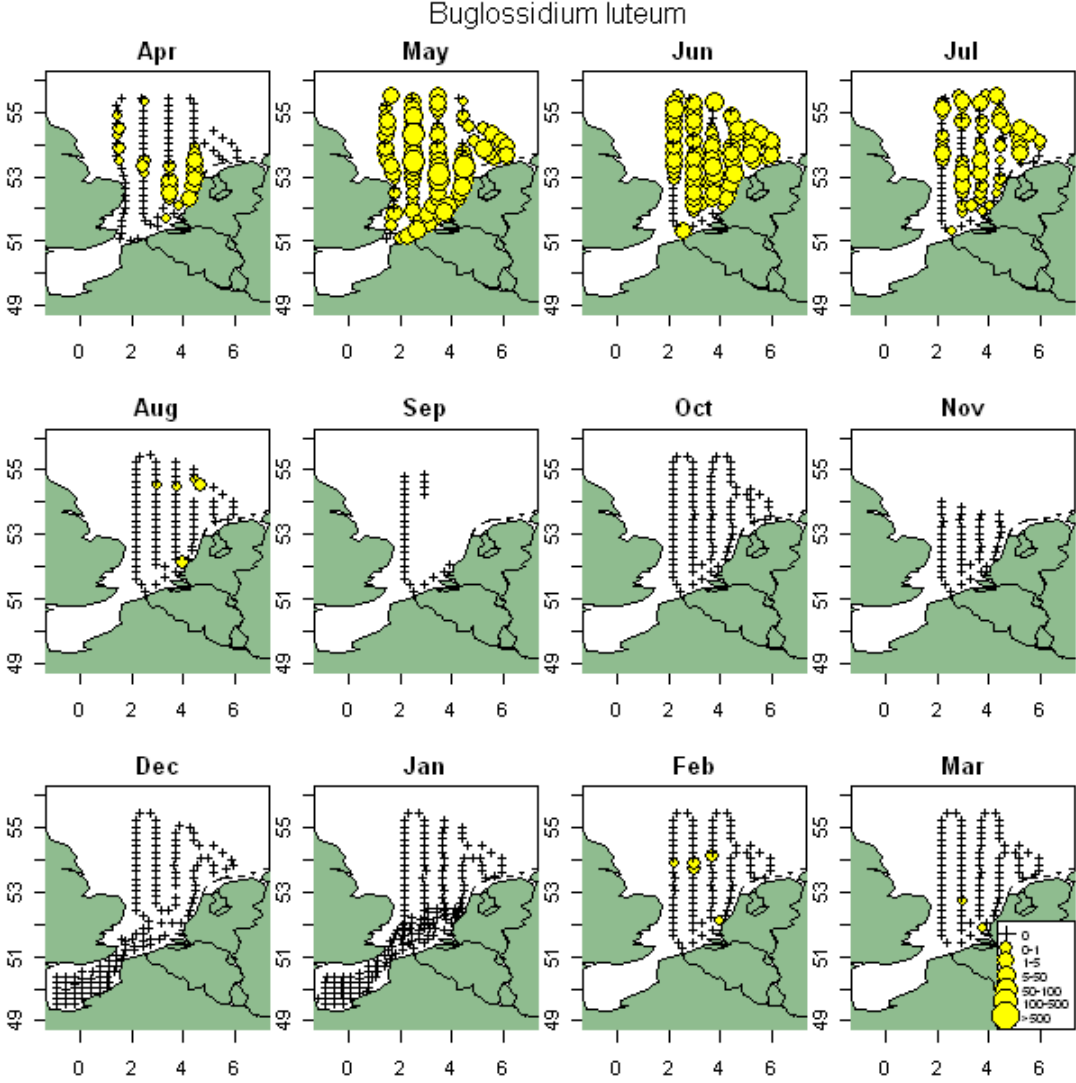


Figure 64a. Spatial and temporal distribution of stage 1 solenette eggs.

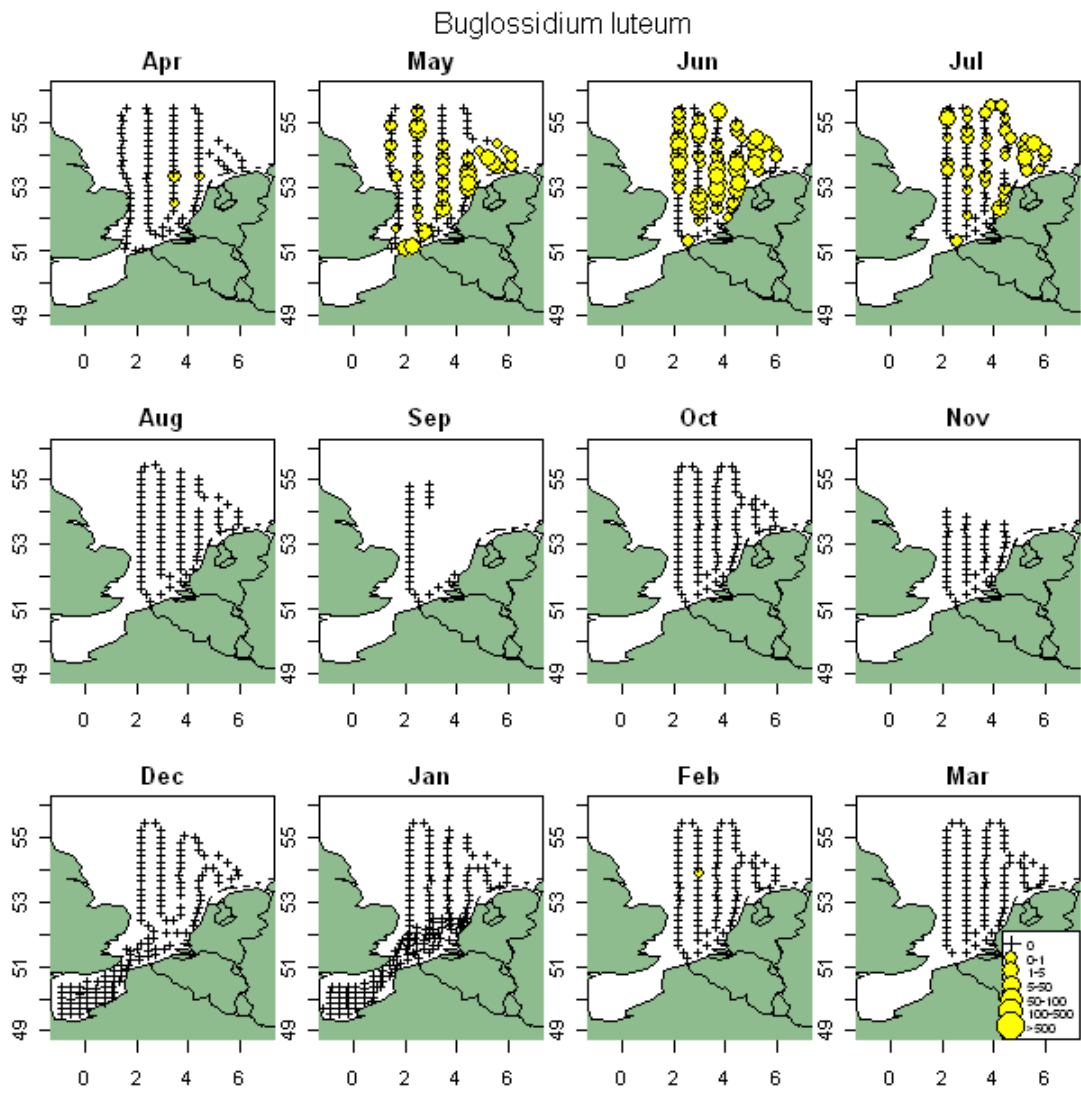


Figure 64b. Spatial and temporal distribution of stage 2 solenette eggs.

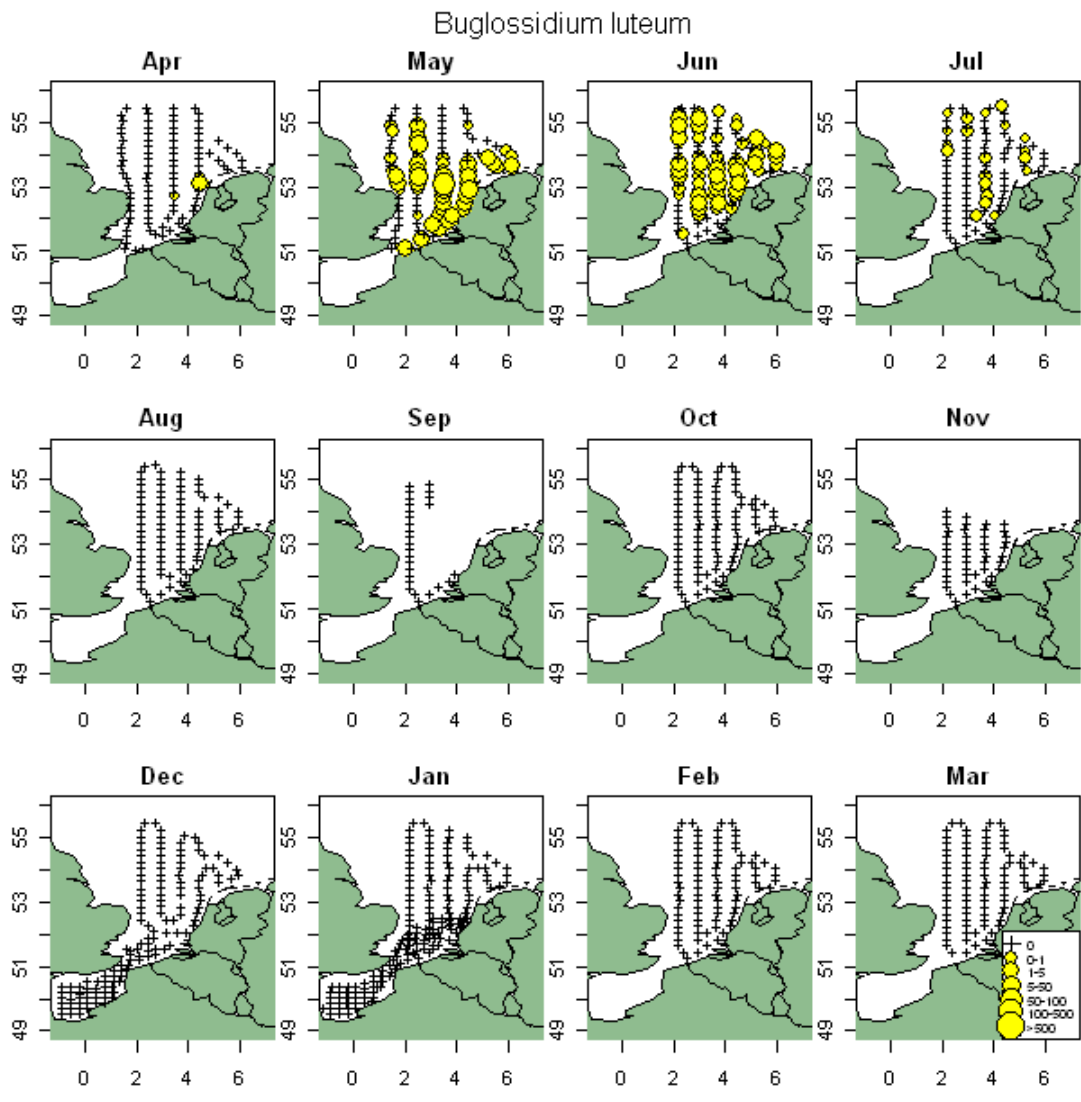


Figure 64c. Spatial and temporal distribution of stage 3 solenette eggs.

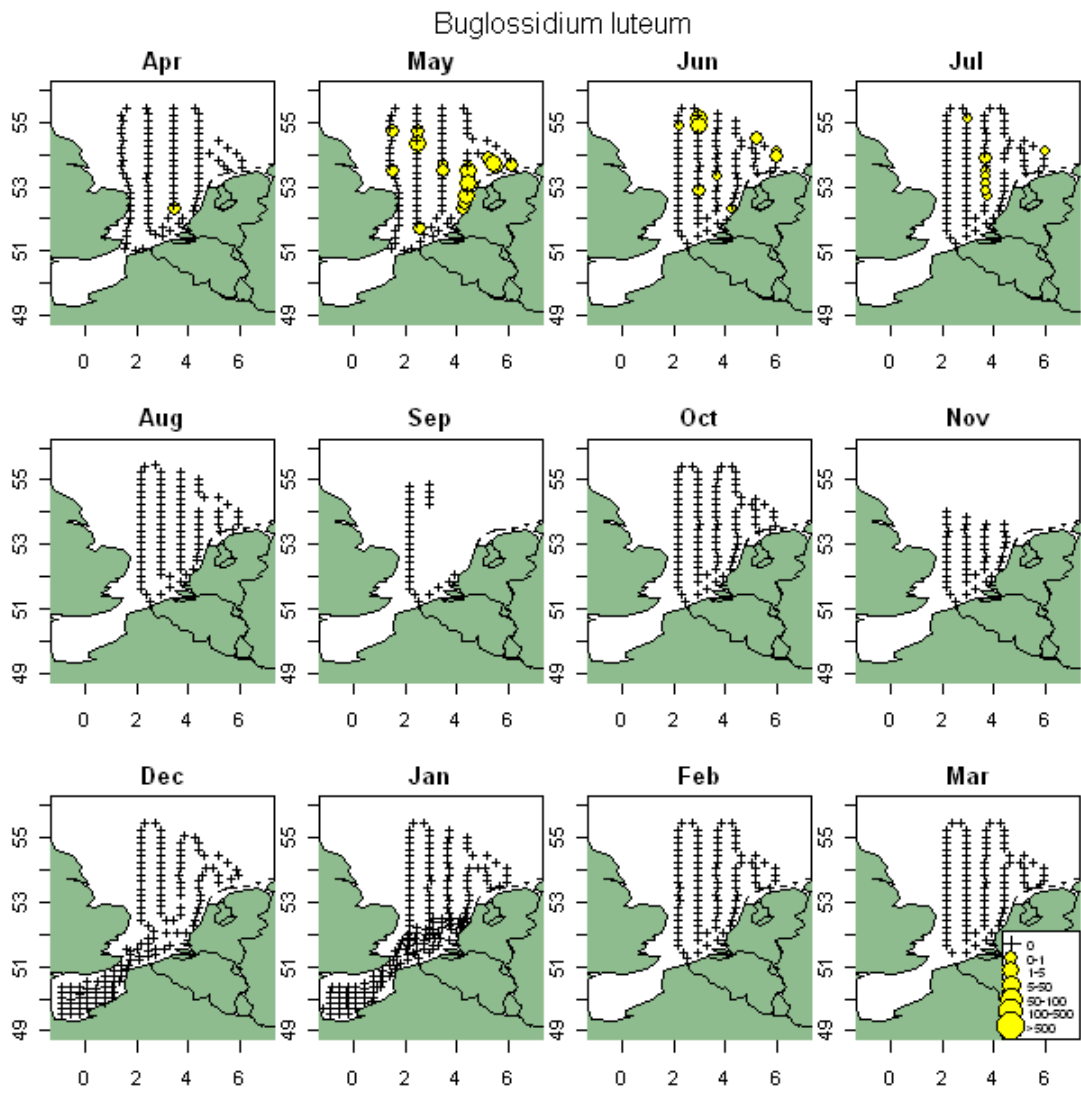


Figure 64d. Spatial and temporal distribution of stage 4 solenette eggs.

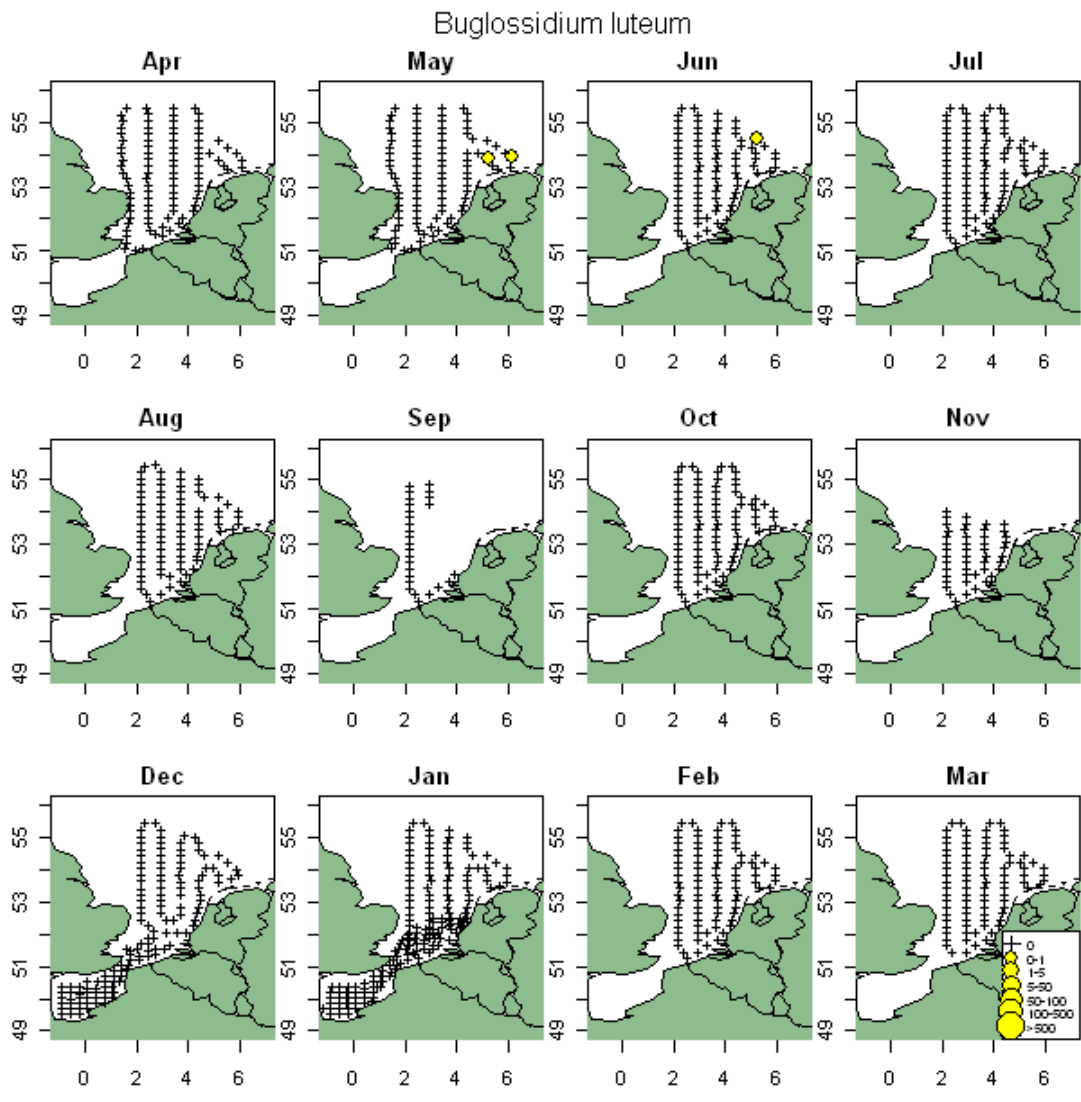


Figure 64e. Spatial and temporal distribution of stage 5 solenette eggs.

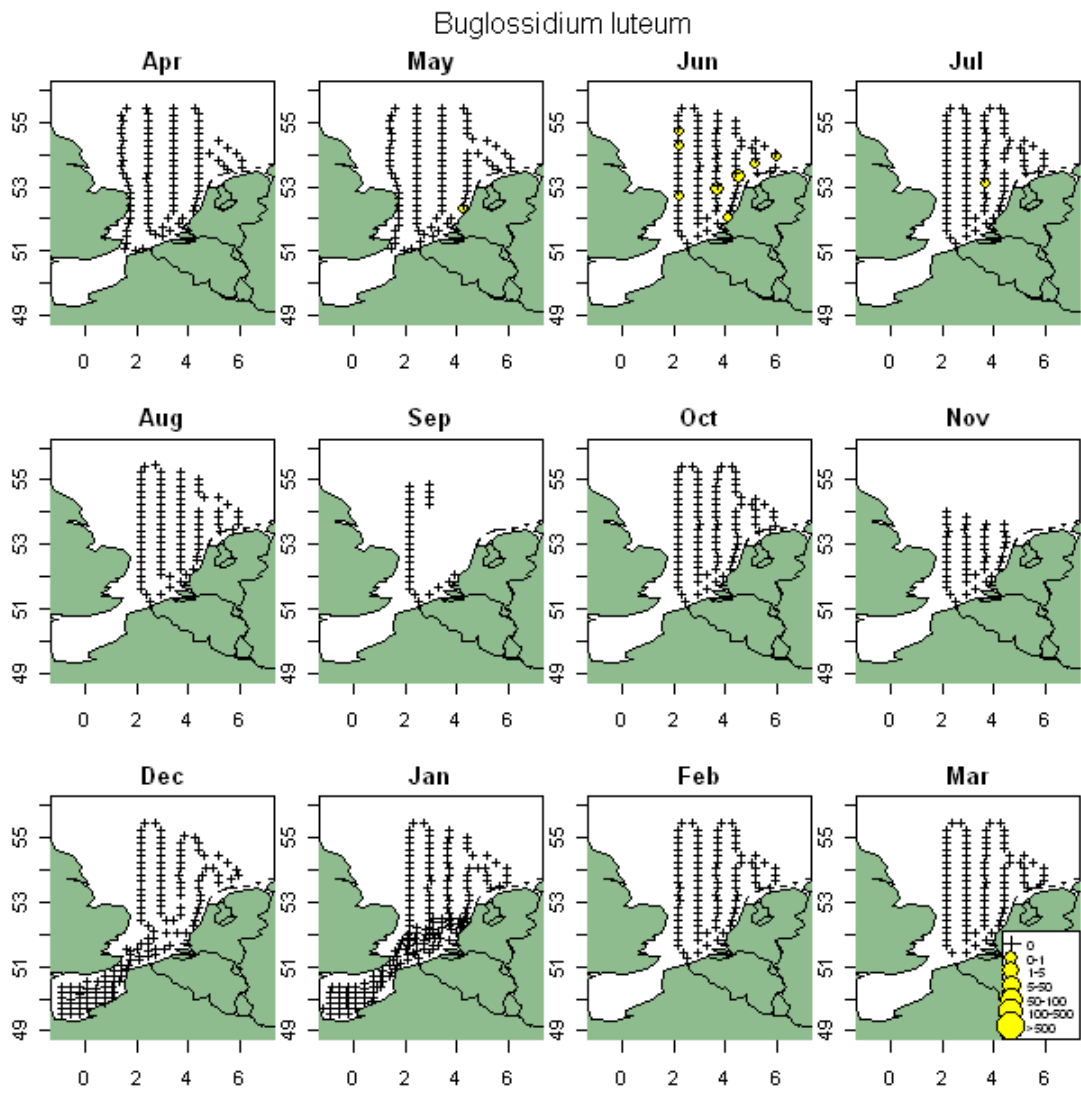


Figure 64f. Spatial and temporal distribution of yolk sac solenette larvae.

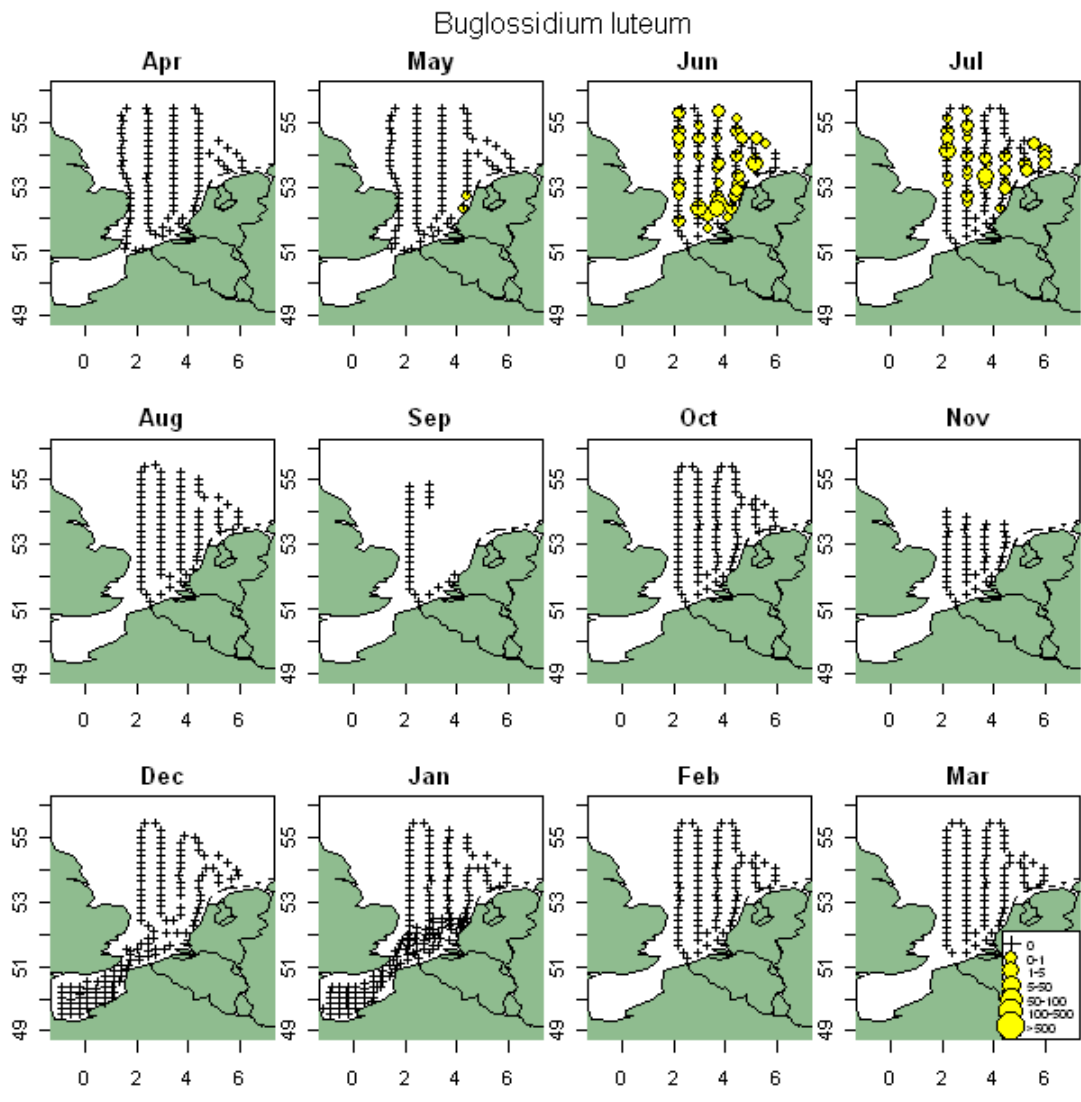


Figure 64g. Spatial and temporal distribution of non-yolk sac solenette larvae.

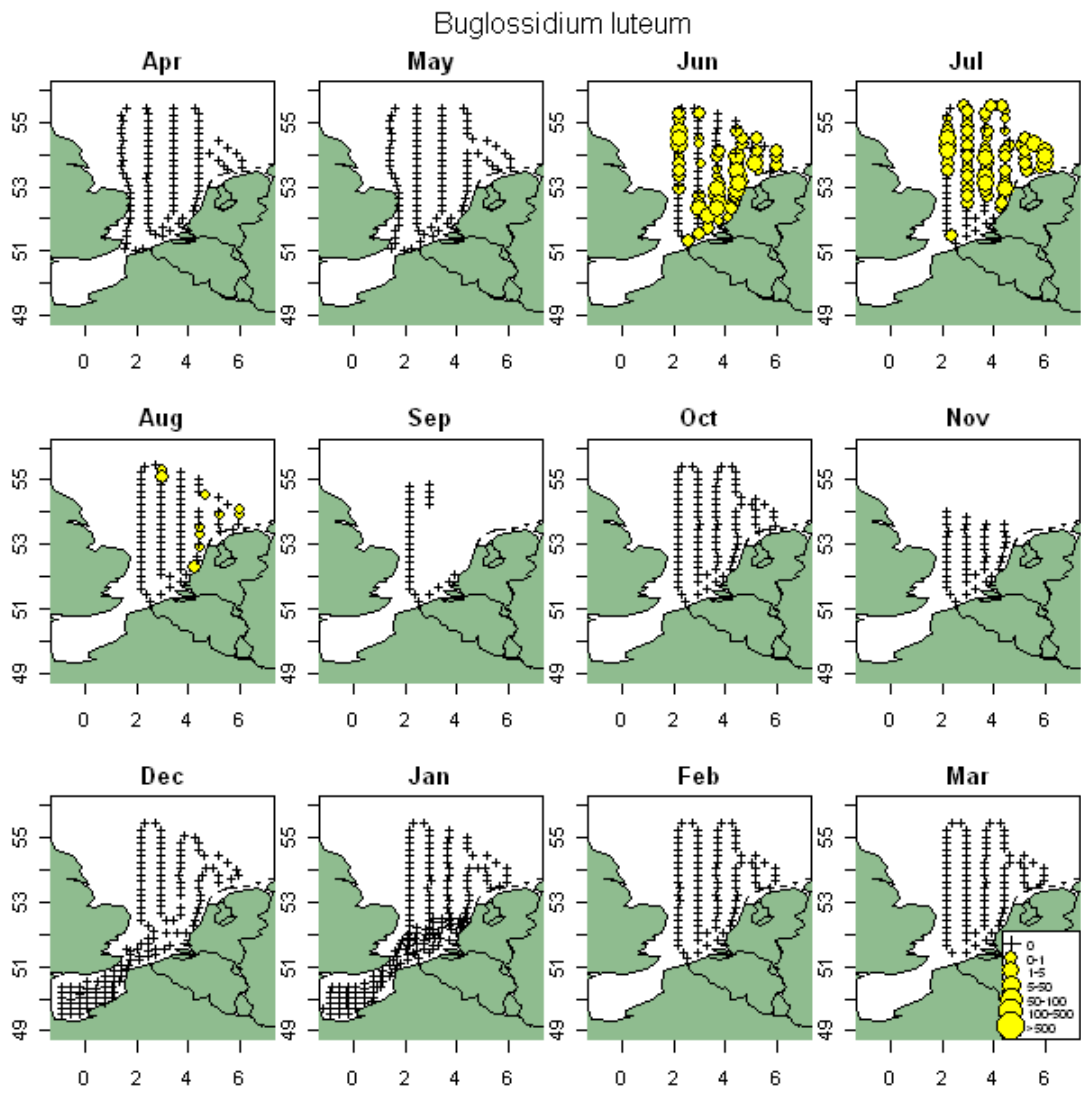


Figure 64h. Spatial and temporal distribution of bent notochord stage solenette larvae.



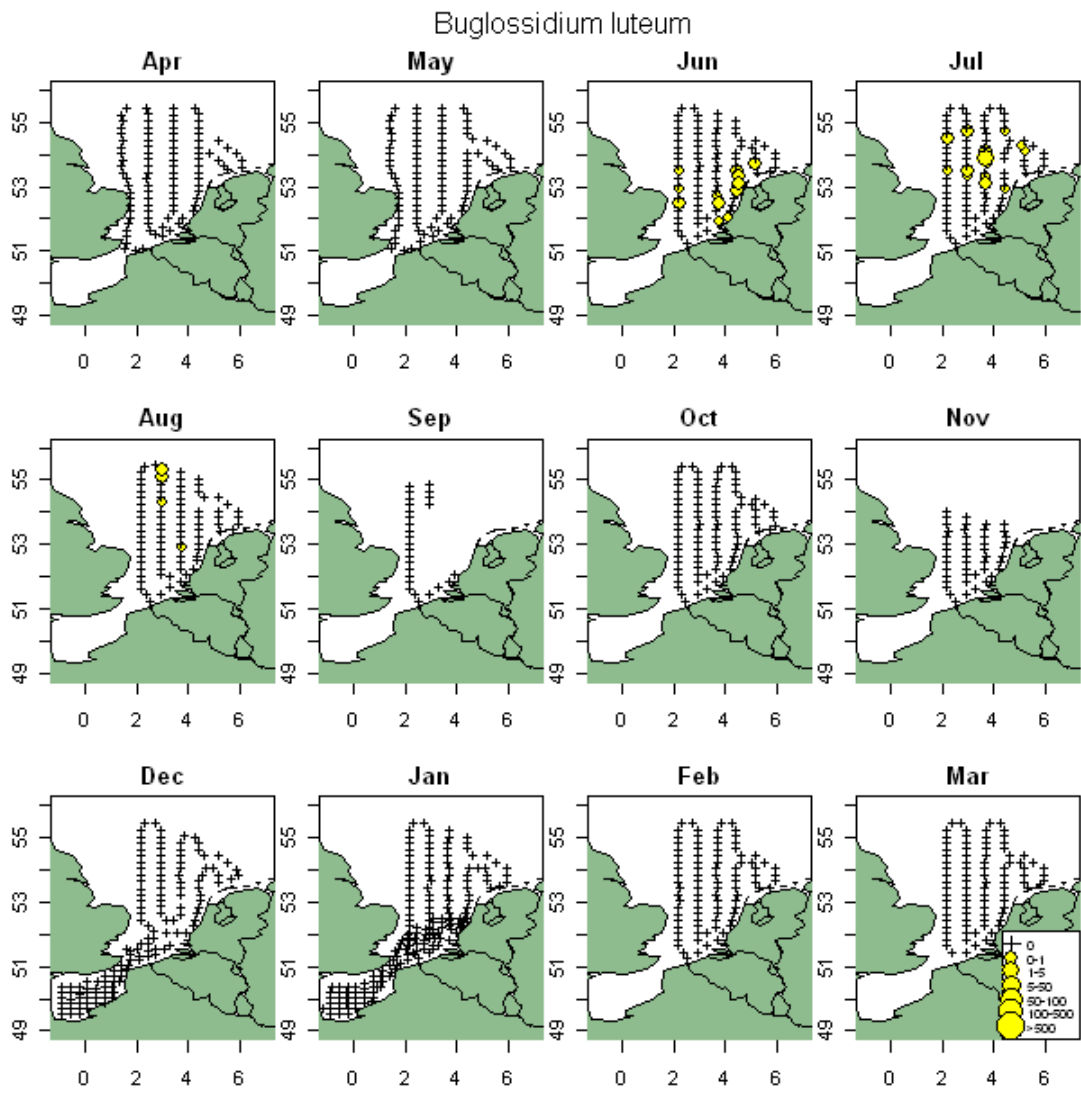


Figure 64i. Spatial and temporal distribution of metamorphosing solenette larvae.