

# What do the ringing data tell about migration and wintering areas of Finnish Divers?

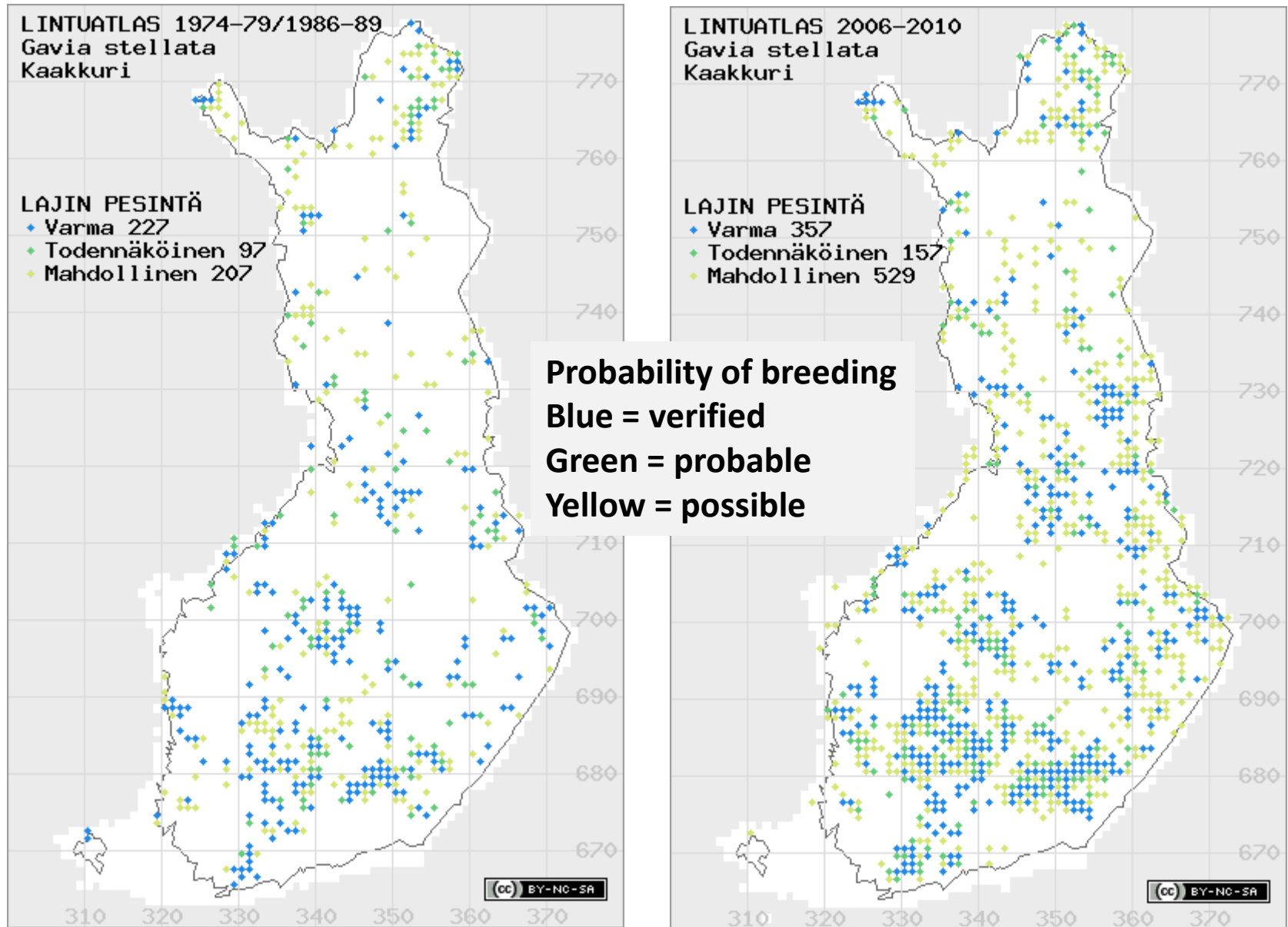
Jari Valkama

Ringing Centre

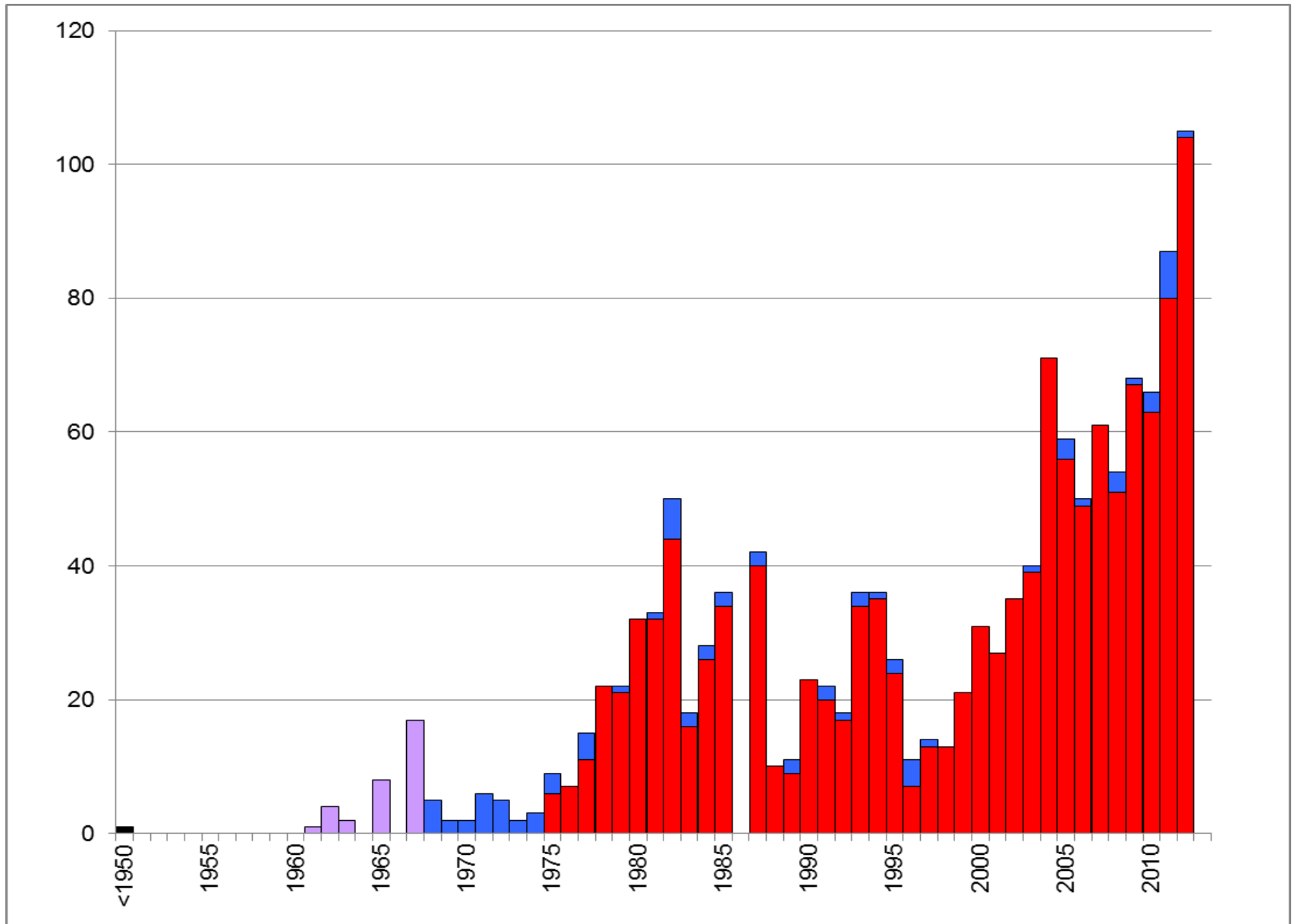
Finnish Museum of Natural History

[jari.valkama@helsinki.fi](mailto:jari.valkama@helsinki.fi)

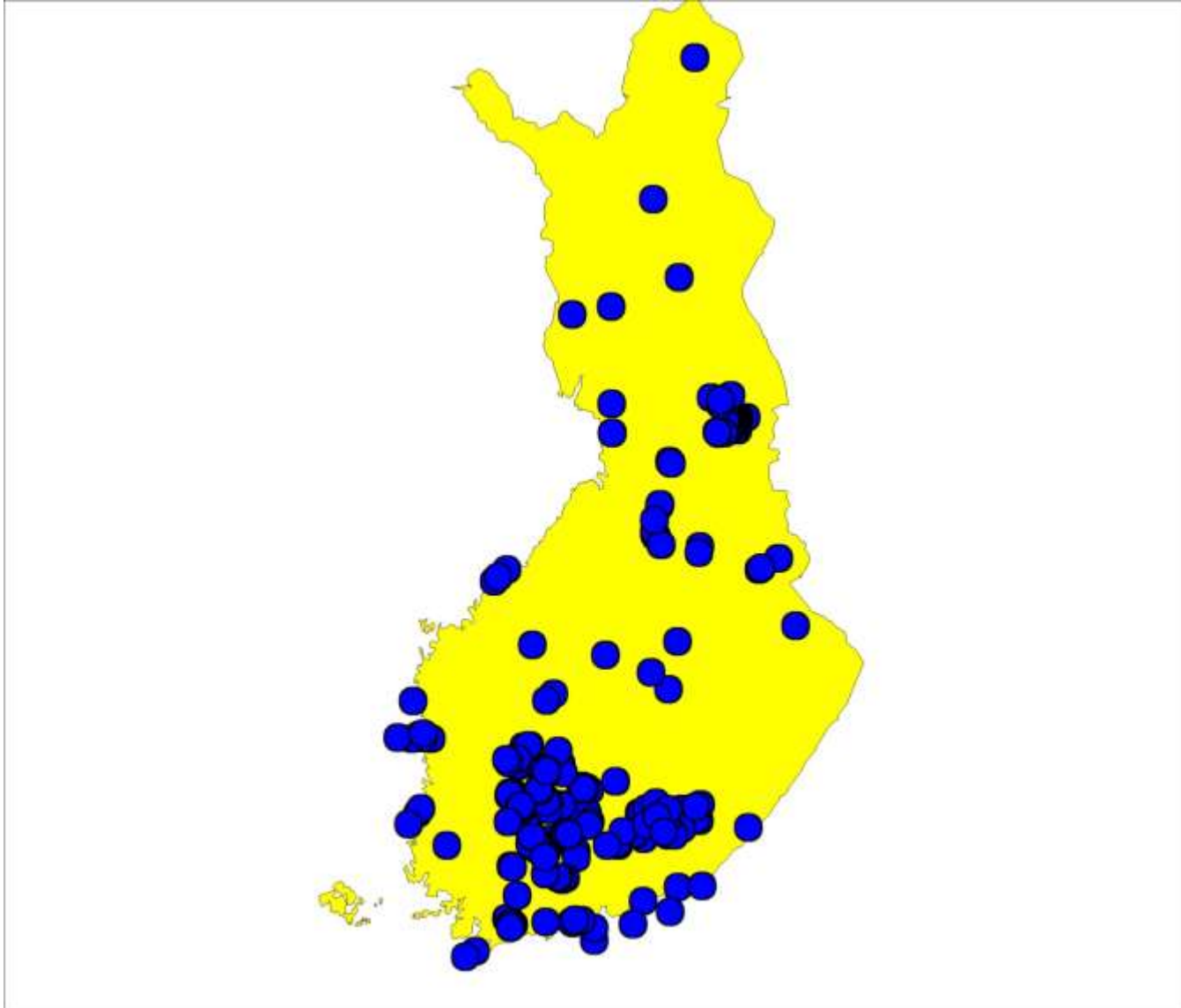
# Red-throated Diver in Bird Atlases



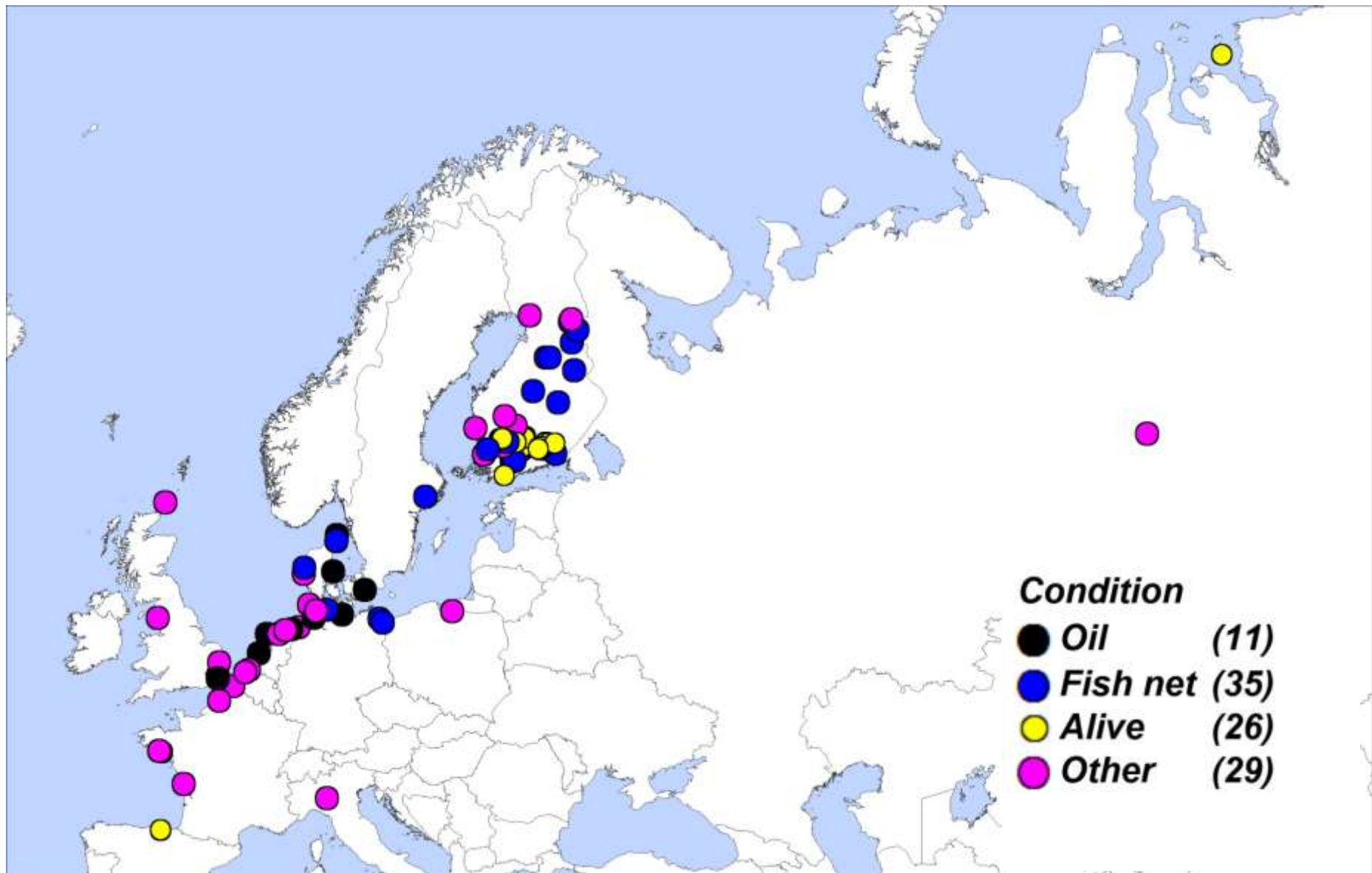
# Numbers ringed (1,262)



# Ringing sites



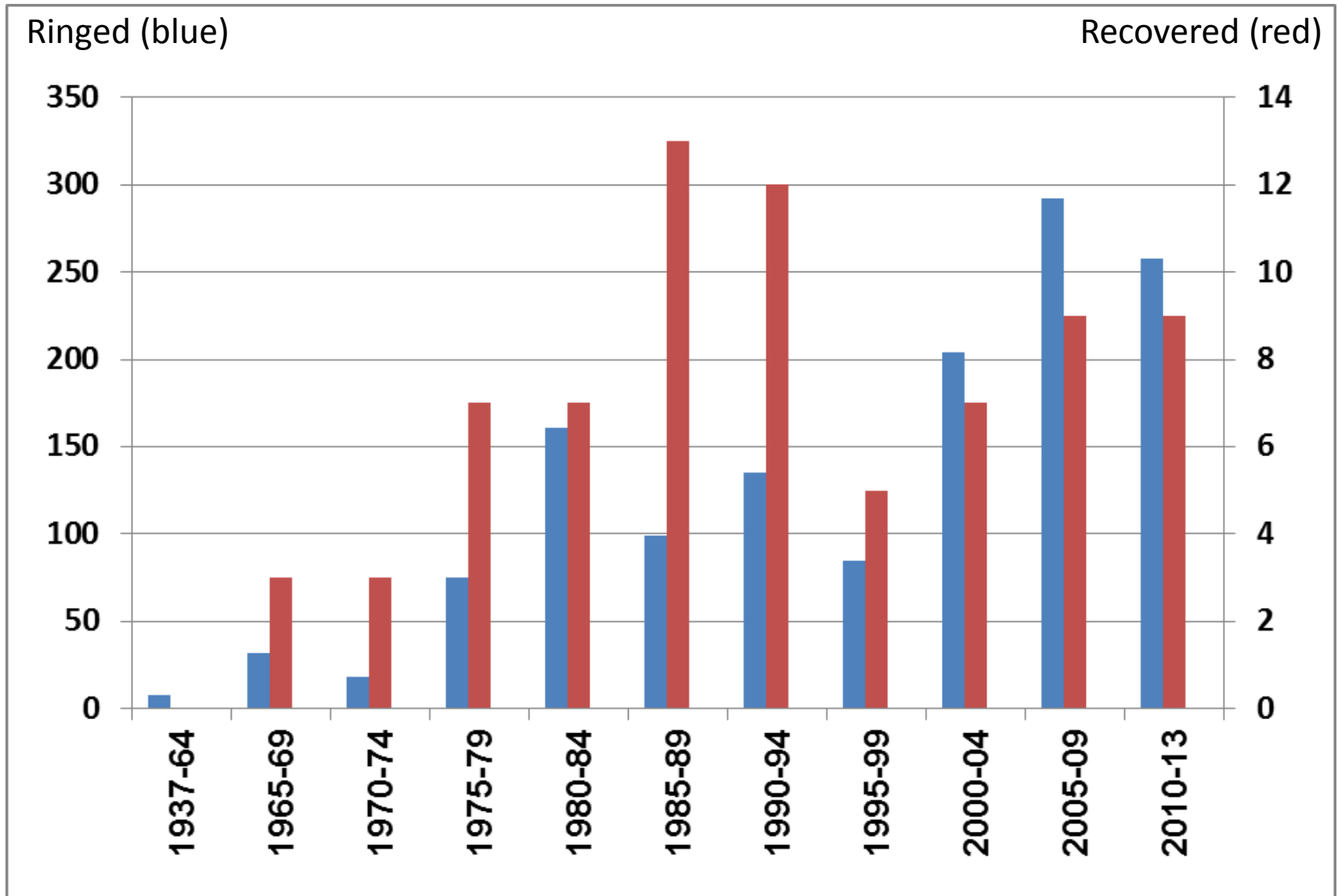
# Recoveries, recaptures and resightings



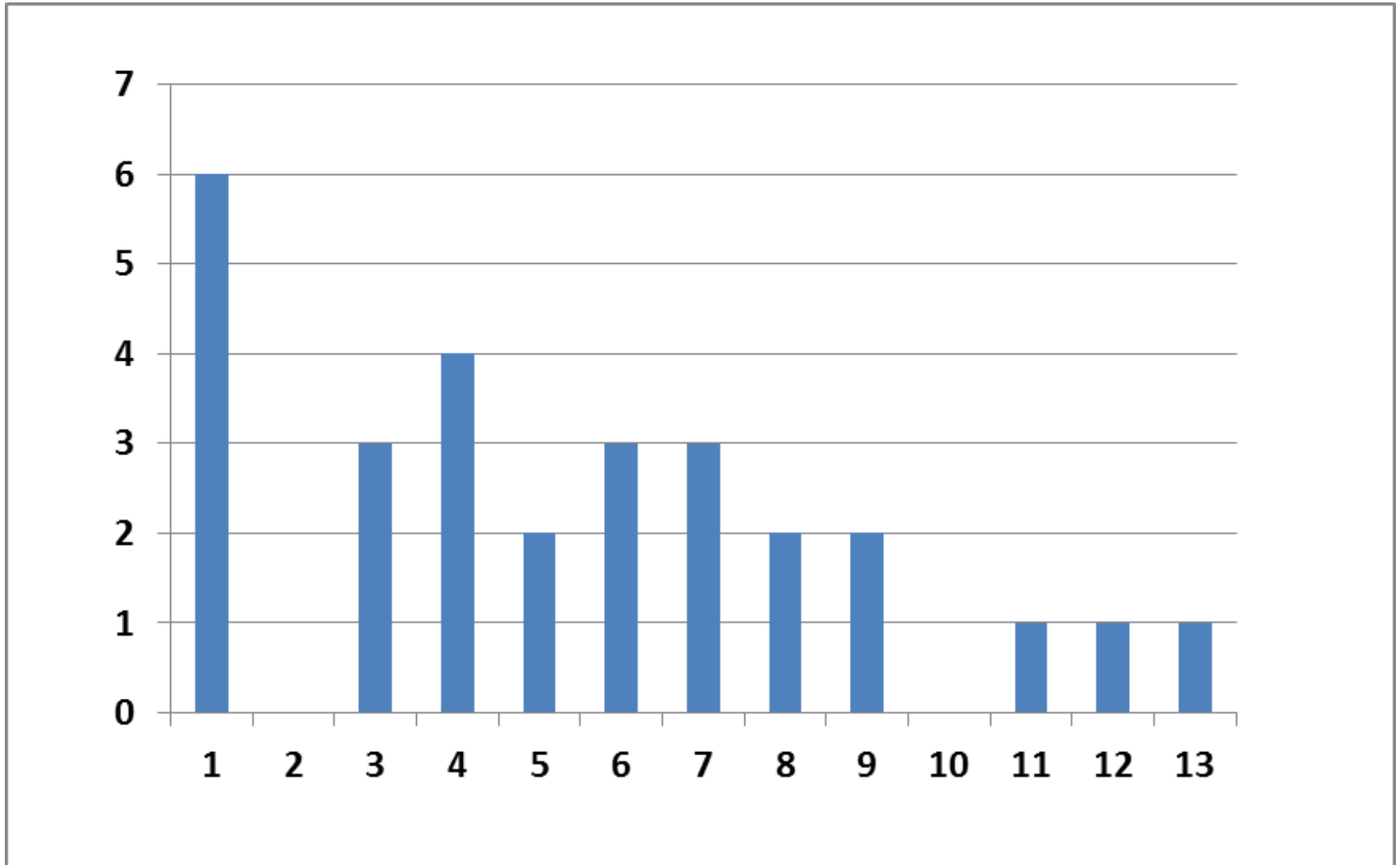
# Finding circumstances (n = 101)

"Found"	25
Killed	3
Oil	11
Fish net	34
Starvation	1
Alive	26

# Number of ringed vs. number recovered

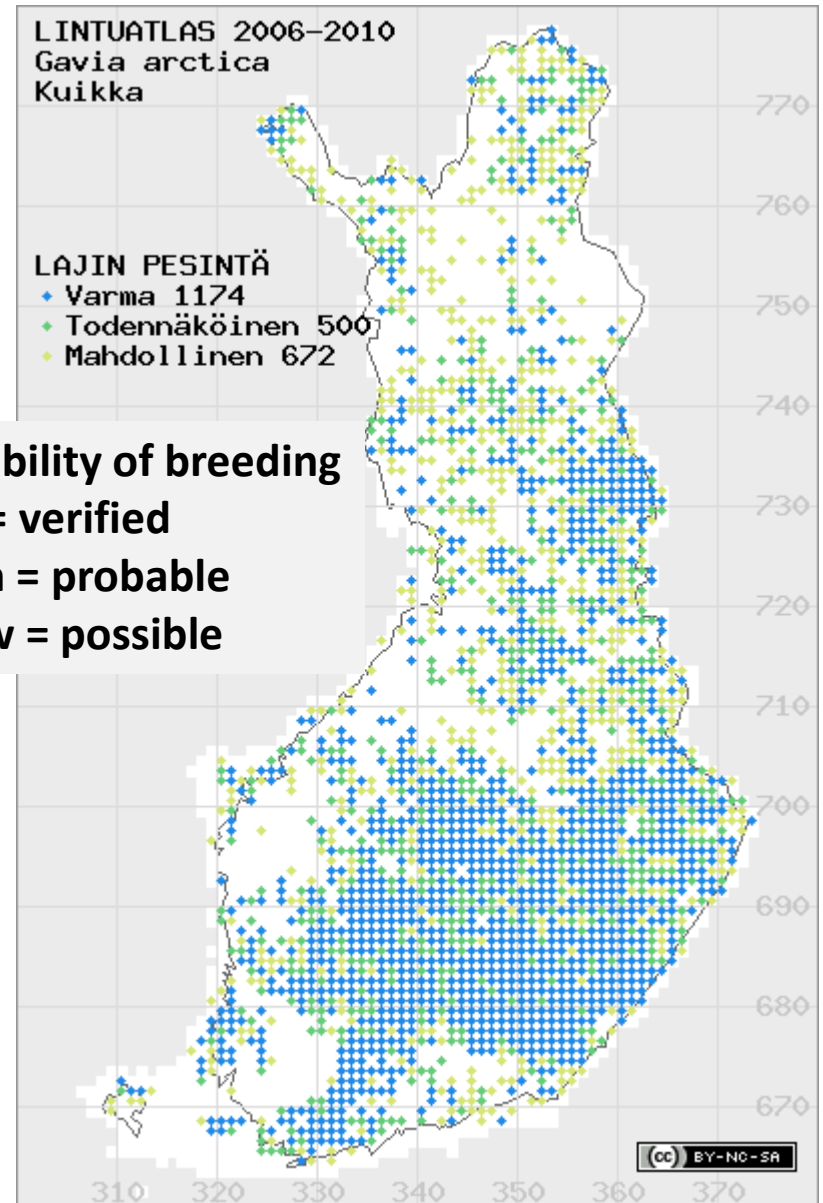
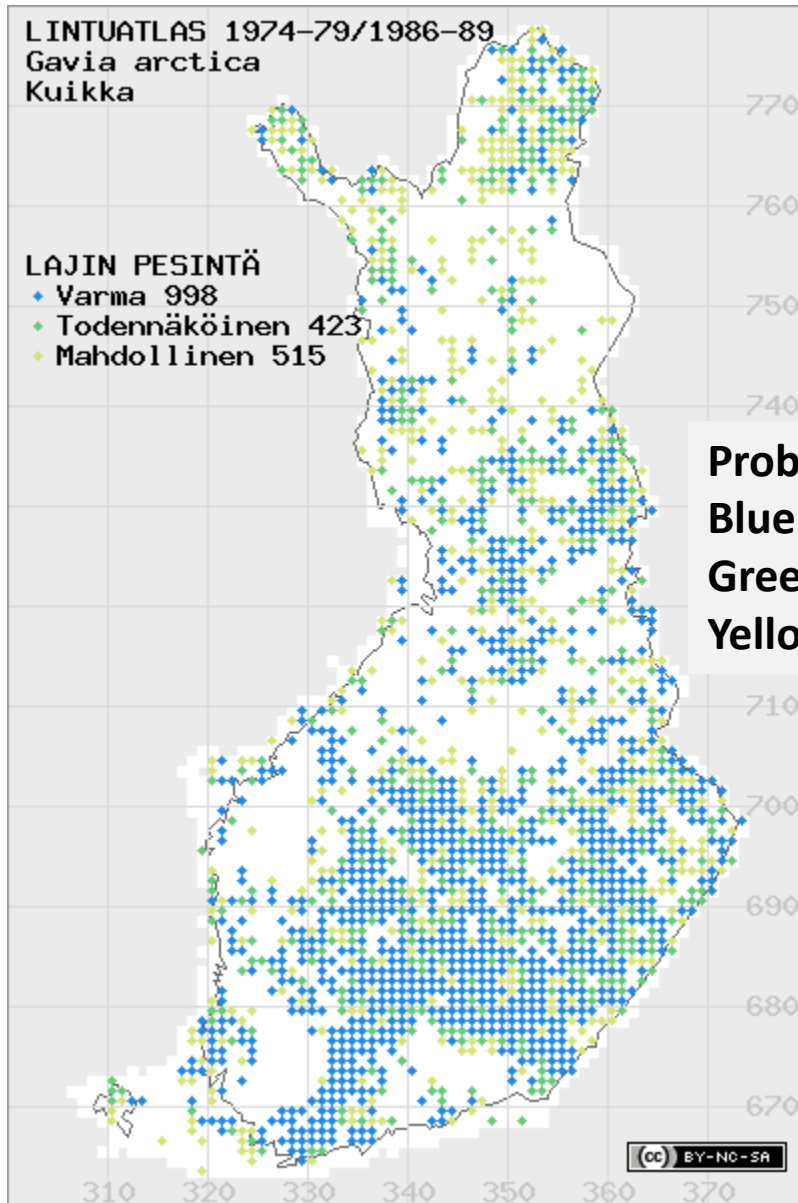


# Age of birds died in fish nets



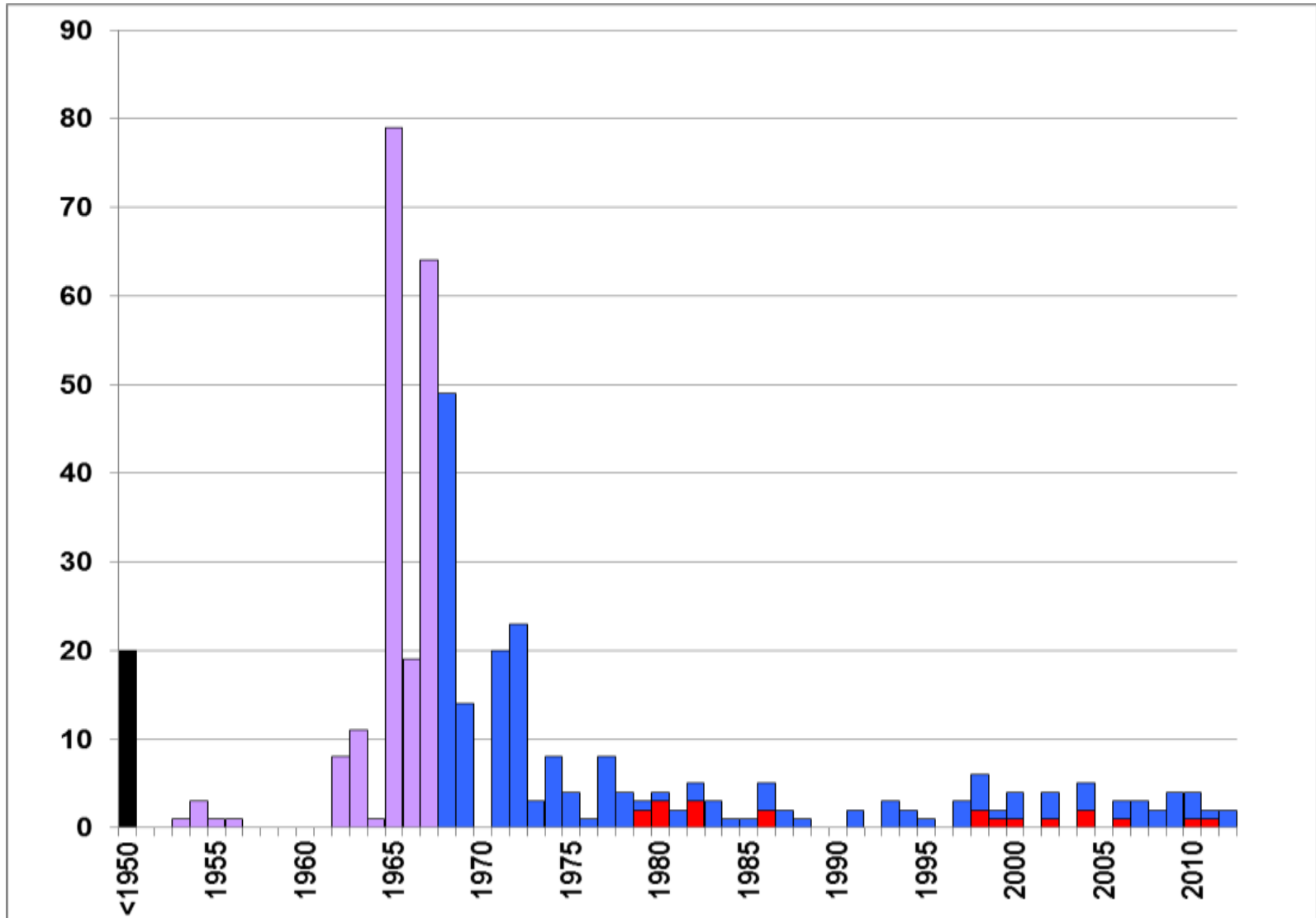


# Black-throated Diver in Bird Atlases

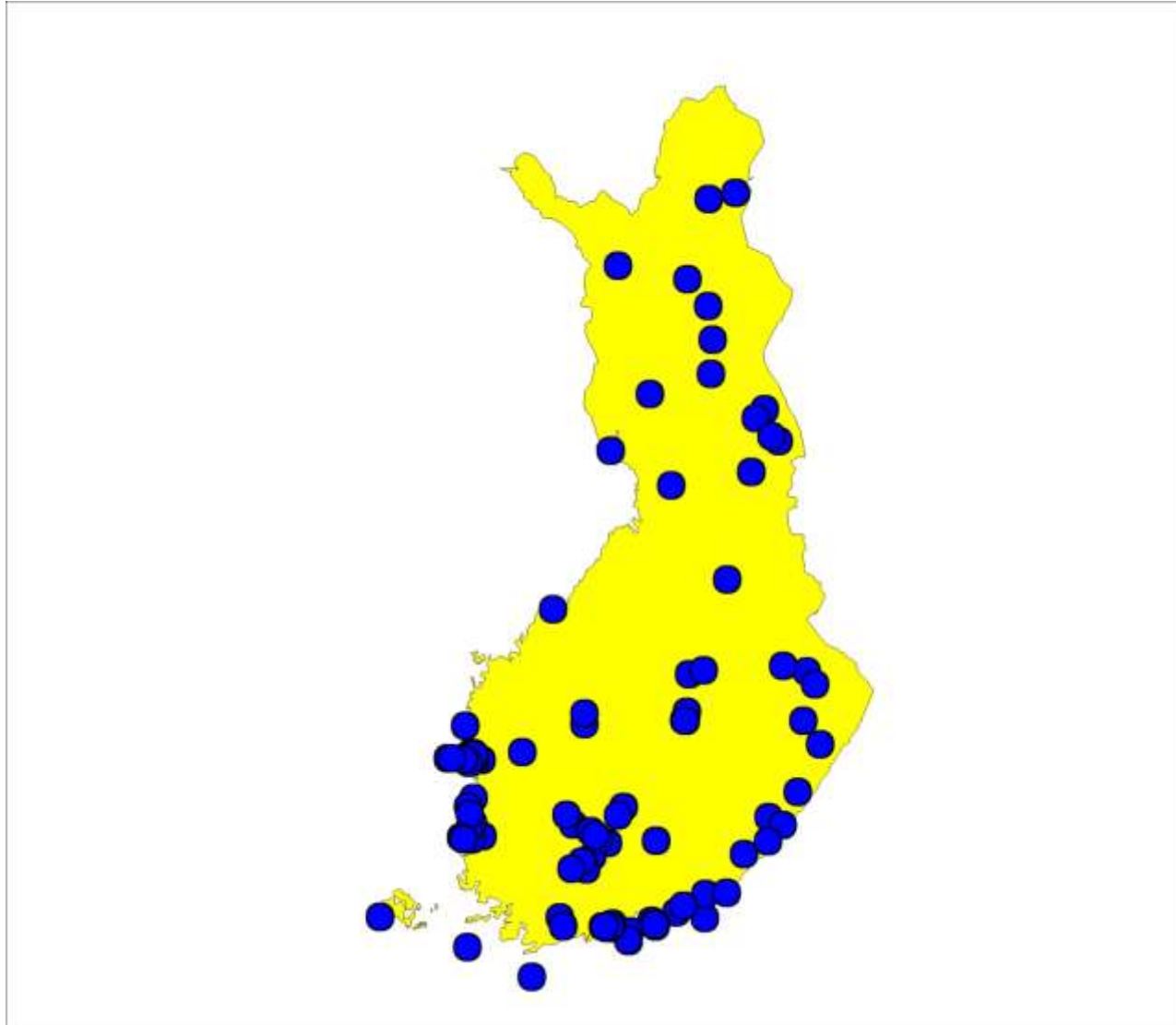


Probability of breeding  
Blue = verified  
Green = probable  
Yellow = possible

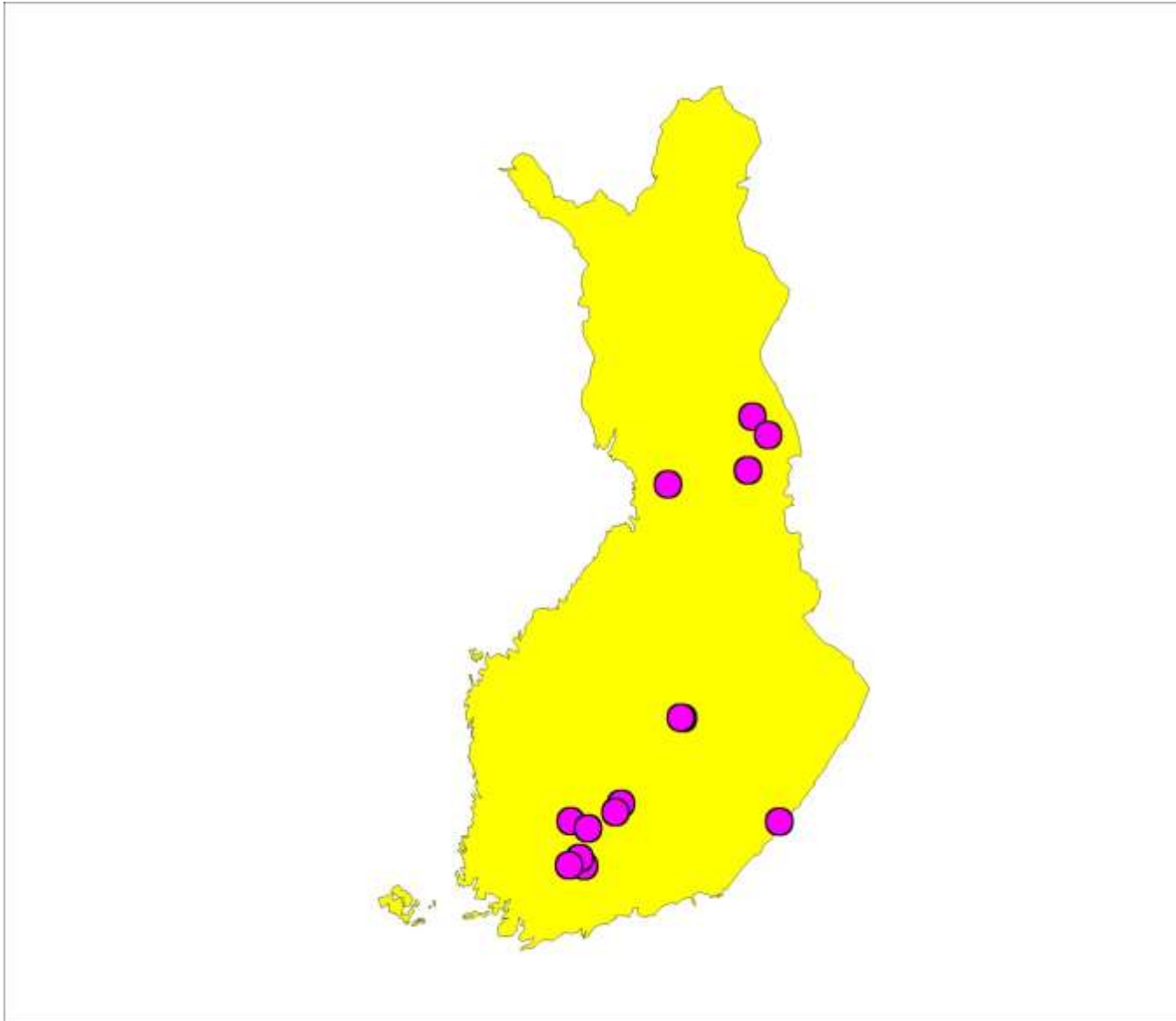
# Numbers ringed (419)



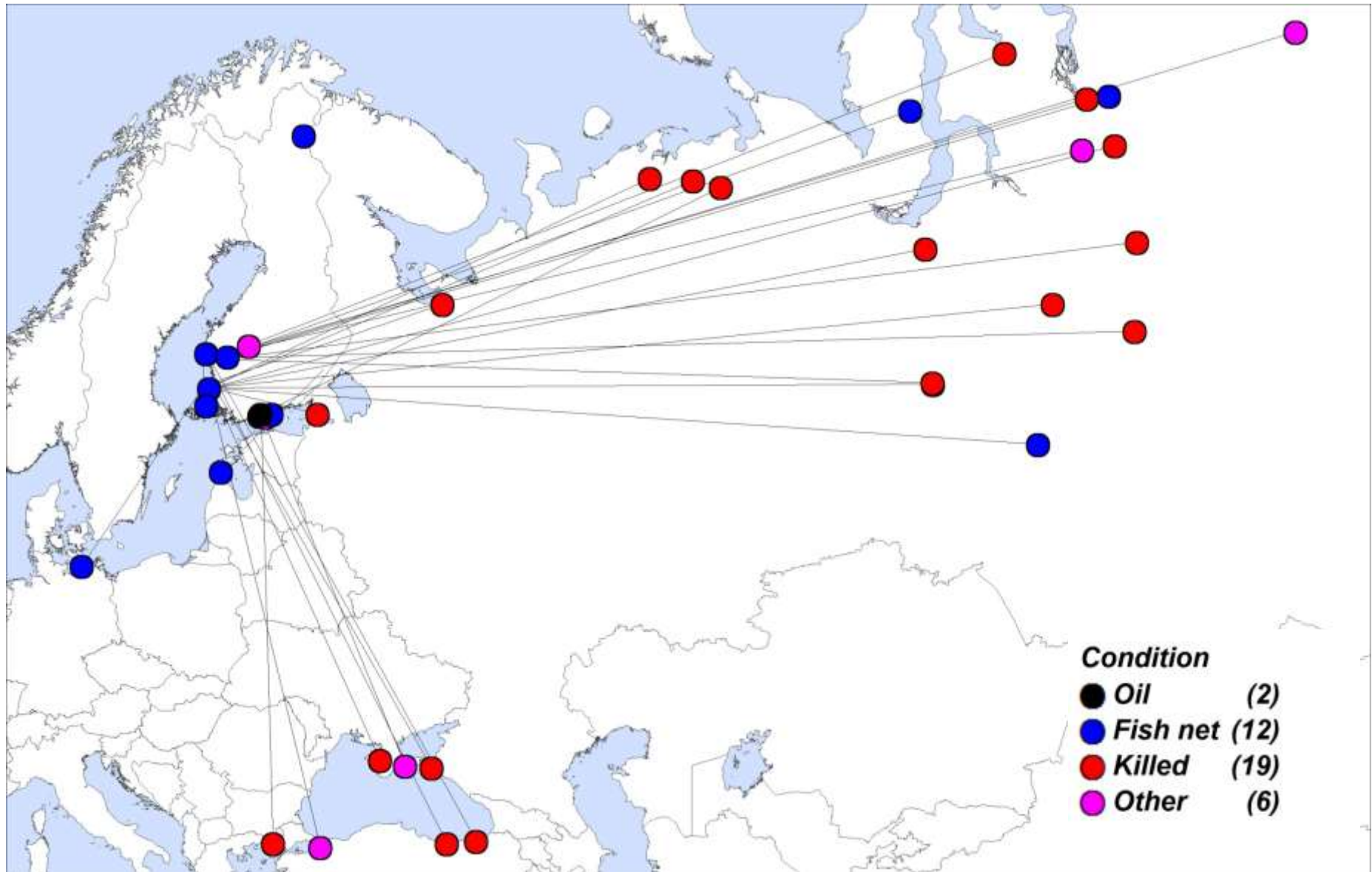
# Ringing sites



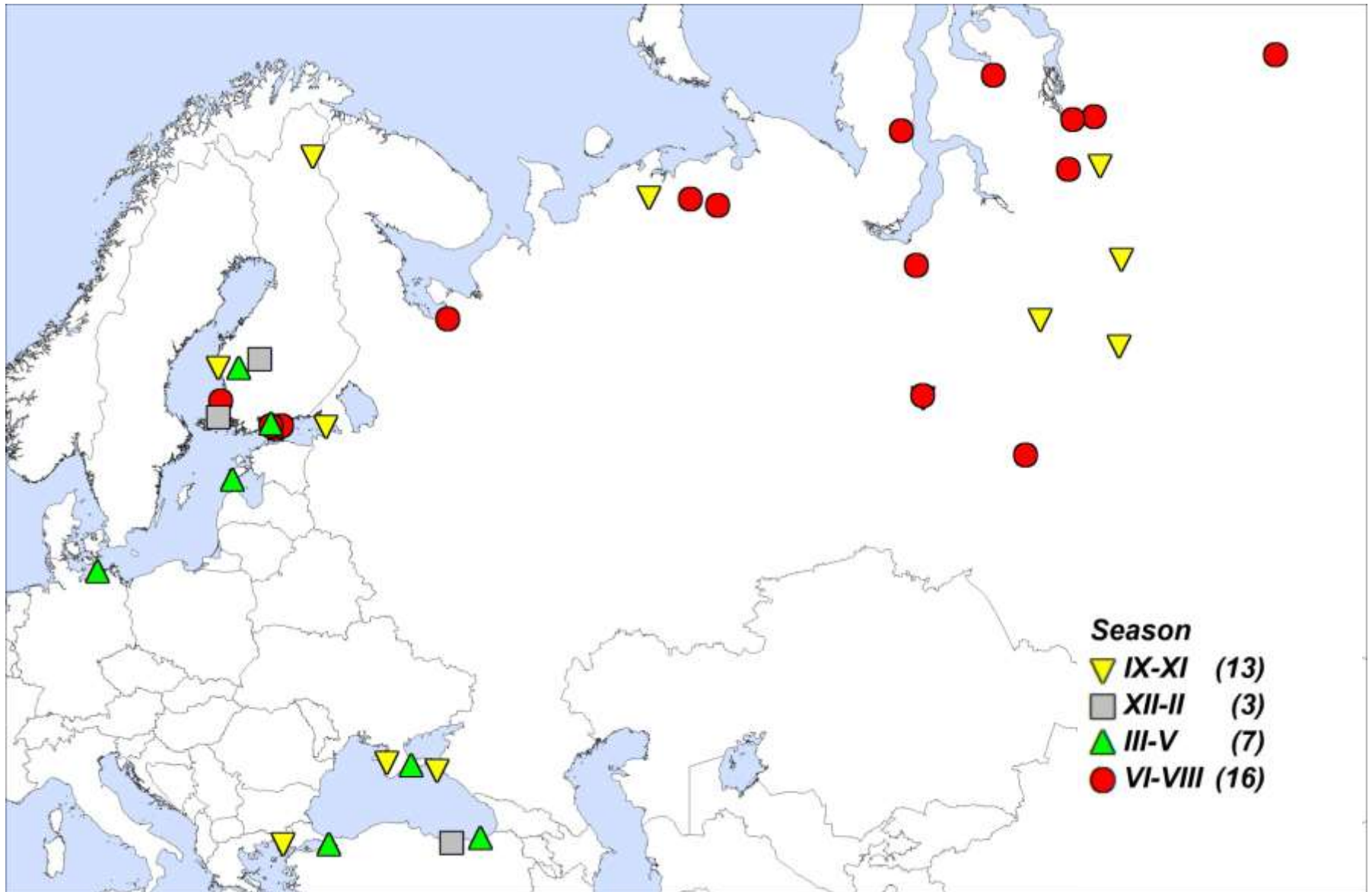
# Ringing sites, chicks



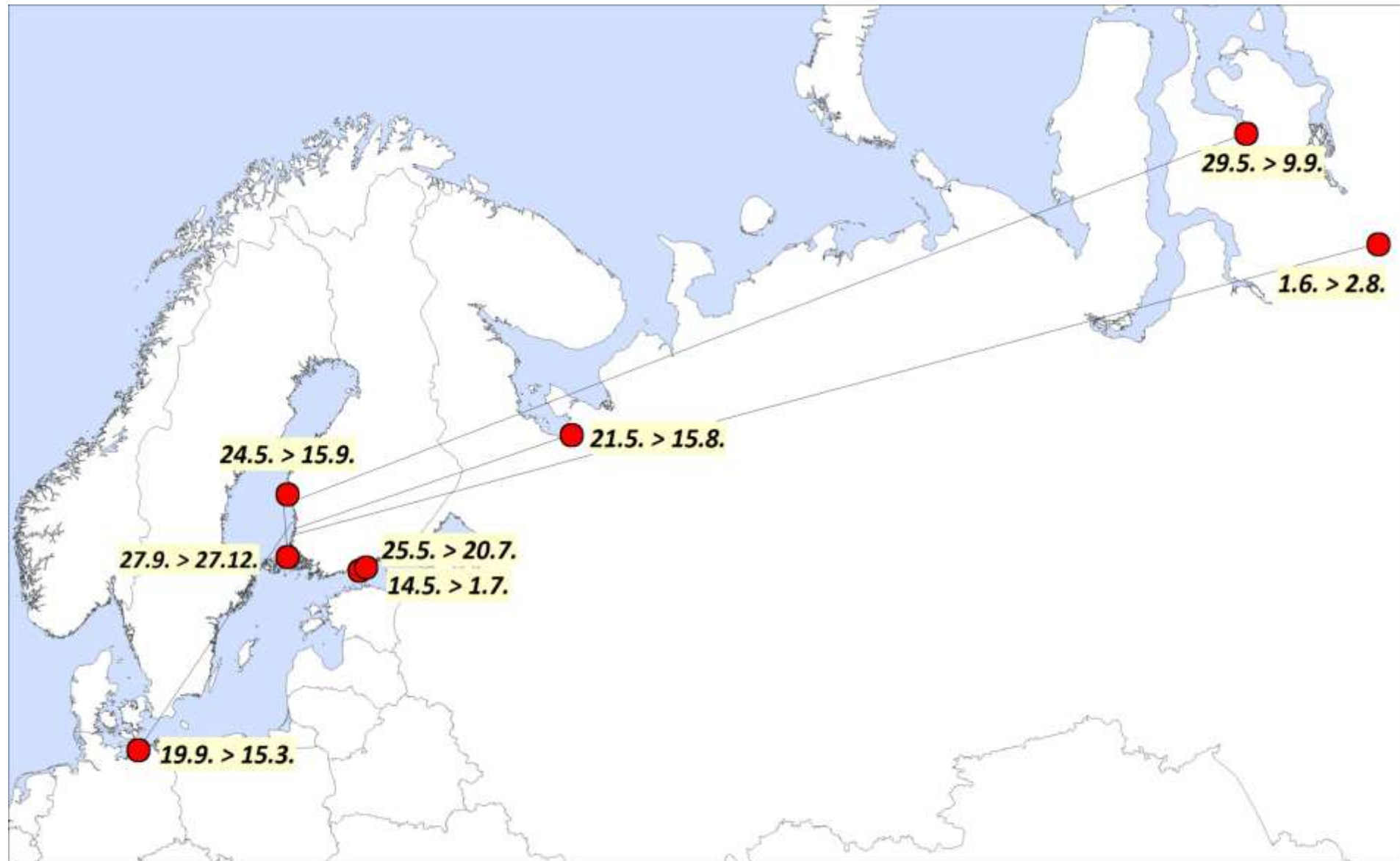
# Ringing and recovery sites



# Recovery sites and seasons



# Within-season recoveries

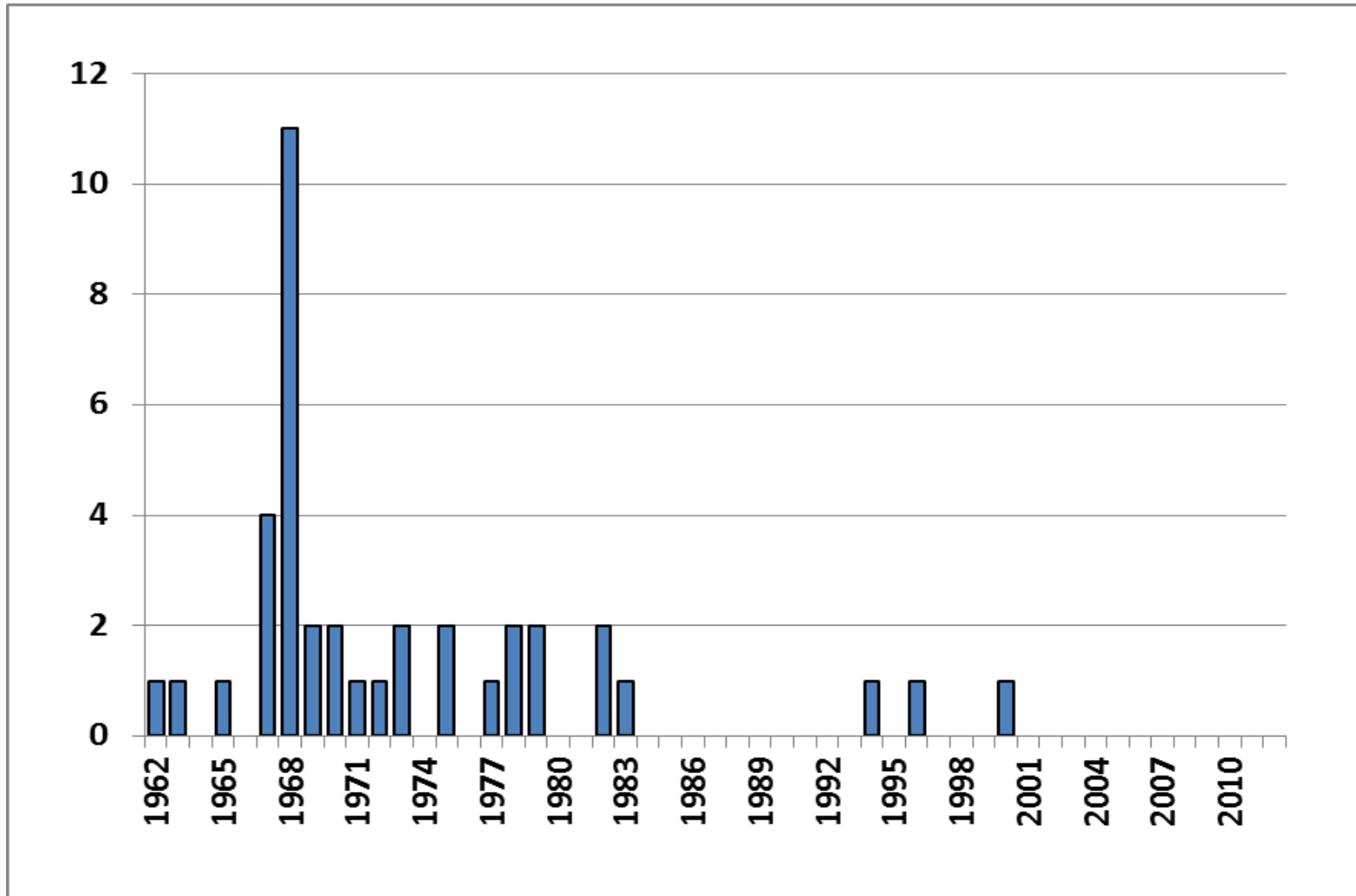


# 39 recoveries

"Found"	1
Killed	19
Oil	2
Fish net	12
Predation	1



# Temporal distribution of recoveries



# Conclusions

- ring recoveries suggest that fishing and oil spills seem to be the main threats for Red-throated Divers
- little, if anything, is known about migration and wintering areas, and natal and breeding dispersal of *Finnish* Black-throated Divers -> need for future research with modern methods