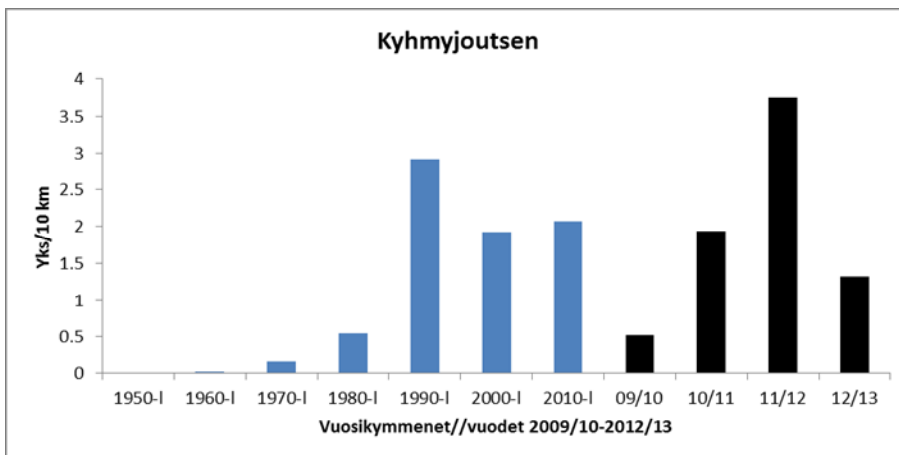


## TLY:n alueen talvilintujen kannanvaihtelut 1960-luvulta nykypäivään

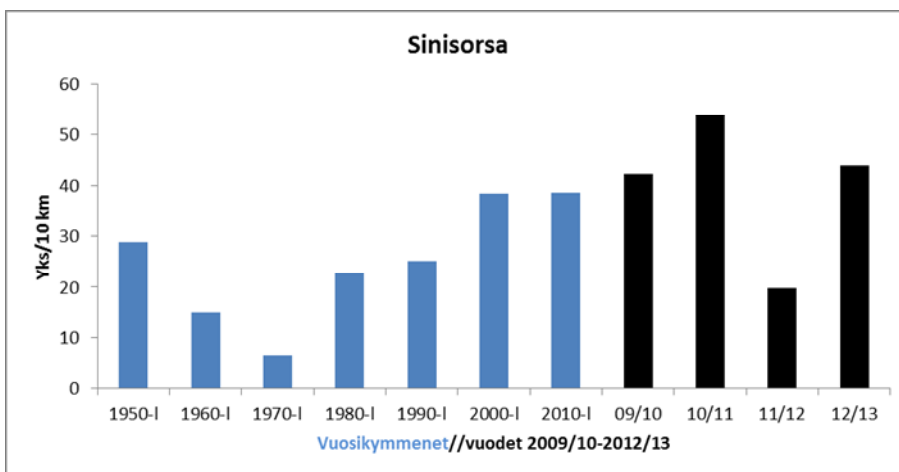
Esa Lehikoinen (Excel-kaaviot) ja Esko Gustafsson (Excel-pohjatyöt)

Tämä tiedosto on kuvitusta Esko Gustafssonin ylläpitämään Excel-taulukkoon. Olen valikoinut kuviin joukon runsaimpia lajeja sekä sellaisia vähän harvalukuisempia, joilla on tarkasteluaikana ollut ilmennyt suurehkoja muutoksia kannan koossa. Kuvan 1 selite pätee muihin paitsi käpylintujen yhteiskuvaan, joka lienee ymmärrettävä ilmankin. Kuvissa näkyviä suuntauksia on käsitelty Ukuli- ja Lintuverkkojen esittelyissä, joten tässä ei niitä uduestaan pohdiskella.

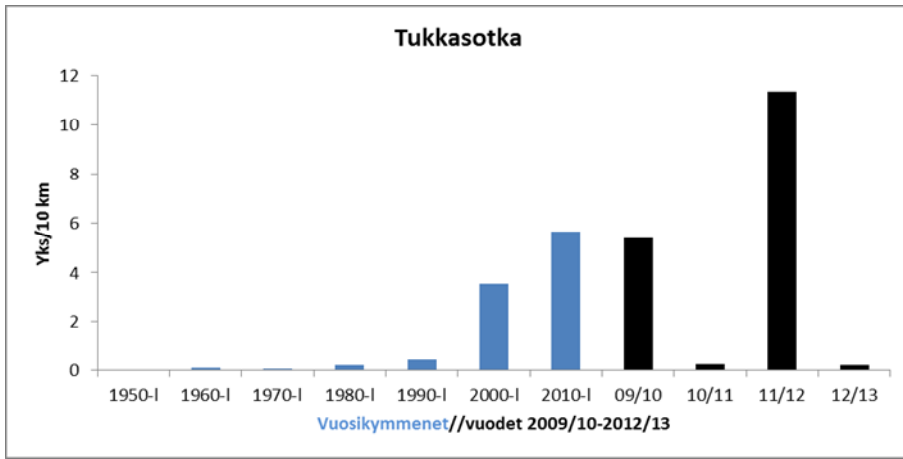


KUVA 1. CYGOLO

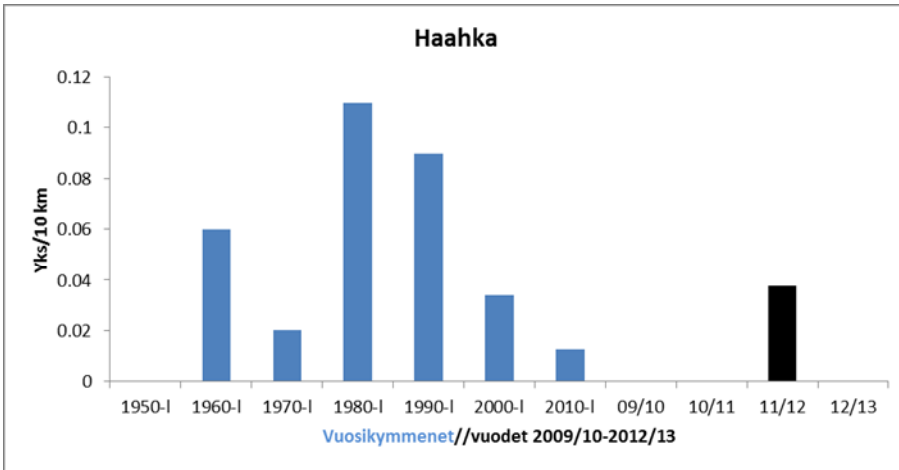
**Selitys:** Kyhmyjoutsenen (*Cygnus olor*) runsaus joululaskennassa. Siniset pylväät ovat vuosikymmenten keskiarvotuloksia. Laskenta tehtiin 1950-luvulla vasta 1956/57 alkaen (n=3) ja 2010-luvulla on laskettu neljänä vuonna, jotka mustina pylväinä kaavion oikeassa reunassa. Pylväs 2010-I on kolmen ensimmäisen mustan pylvään keskiarvo, johon kuluu talvea voi vuositason verrata. Jokaisessa kaaviossa y-akseli on lajikohtainen.



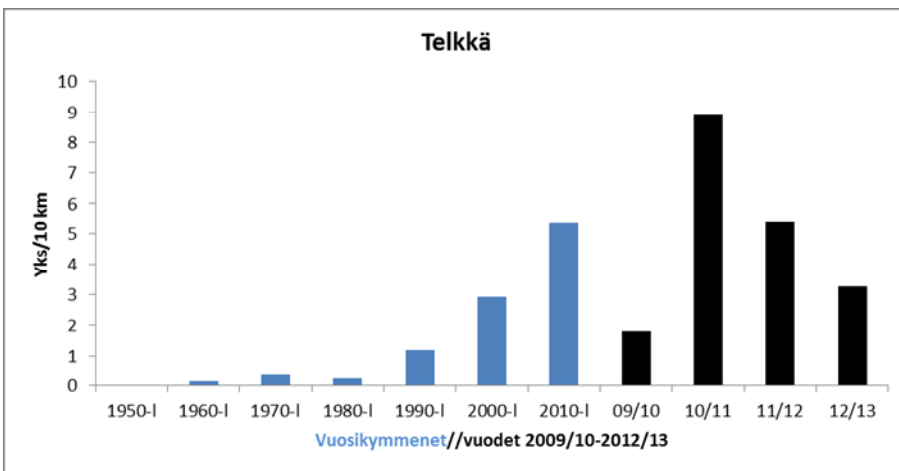
Kuva 2. ANAPLA



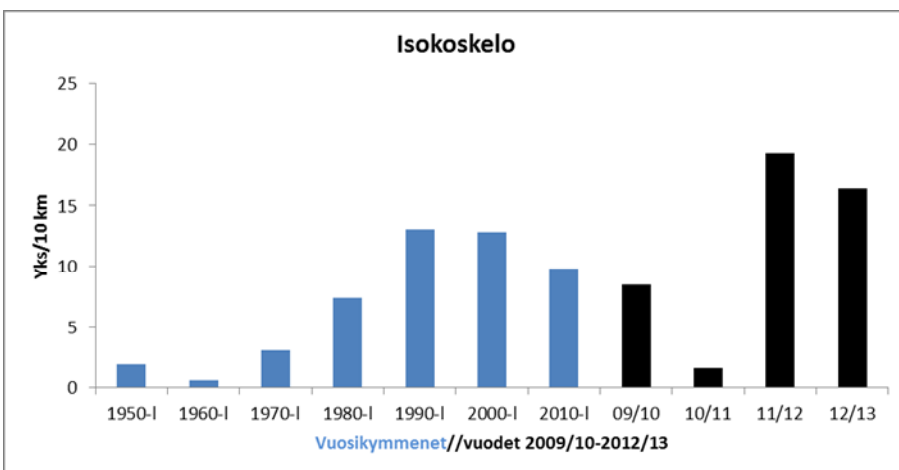
Kuva 3. AYTFUL



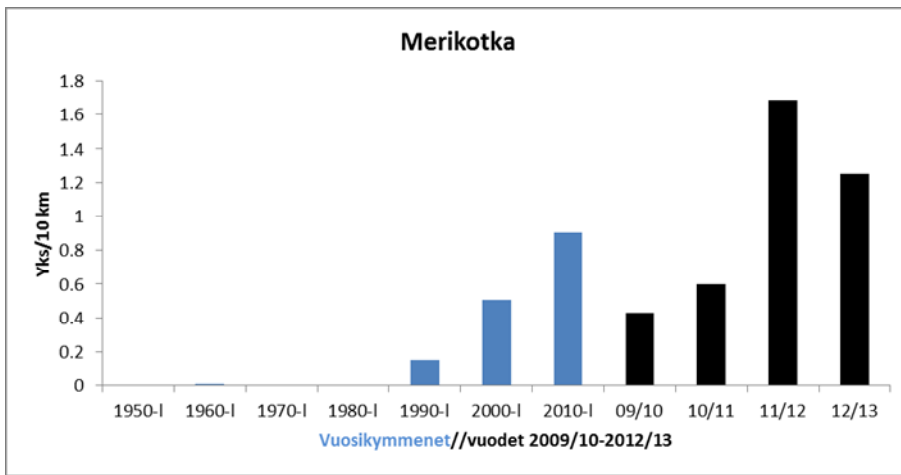
Kuva 4. SOMMOL



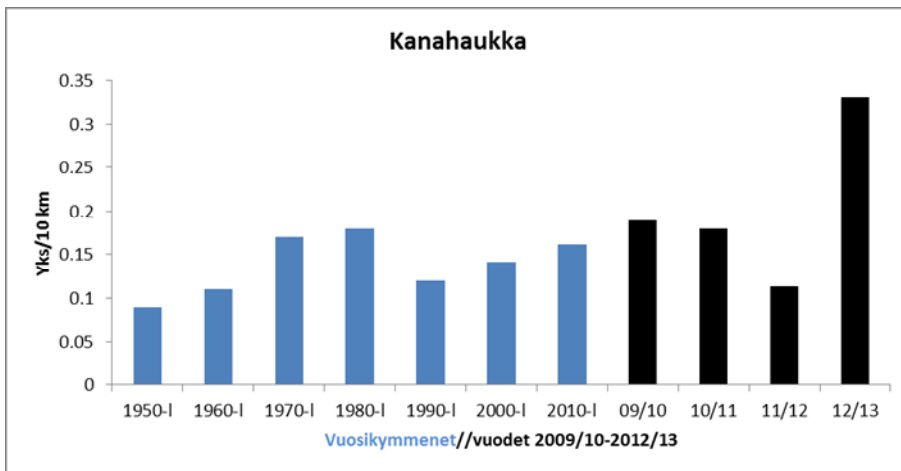
Kuva 5. BUCCLA



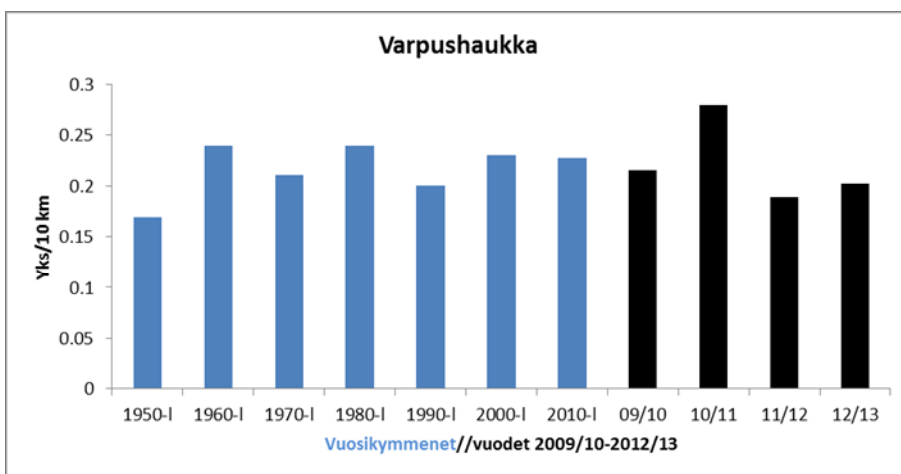
Kuva 6. MERMER



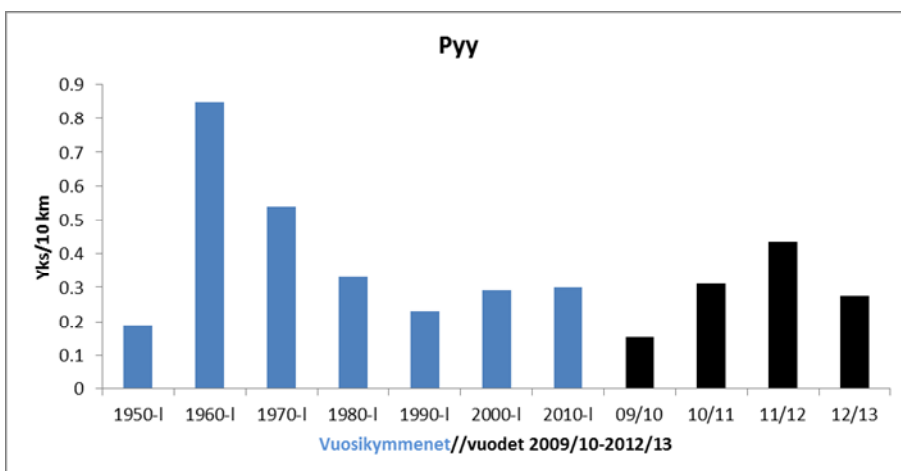
Kuva 7. HALALB



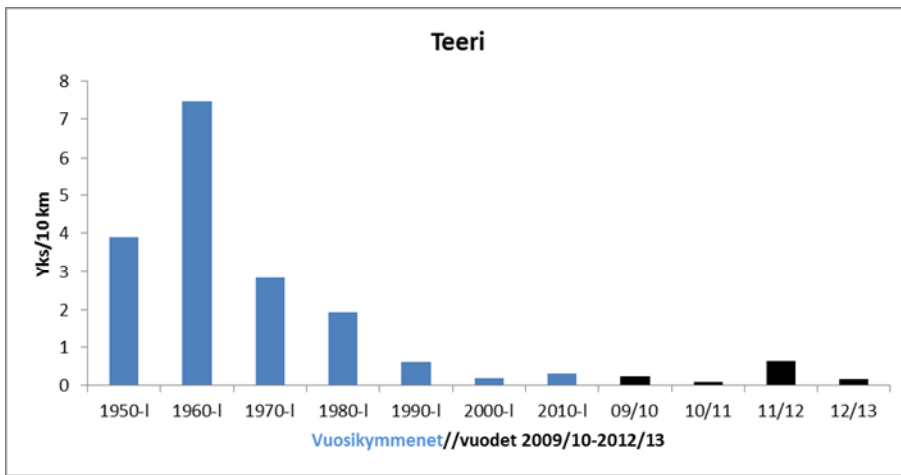
Kuva 8. ACCGEN



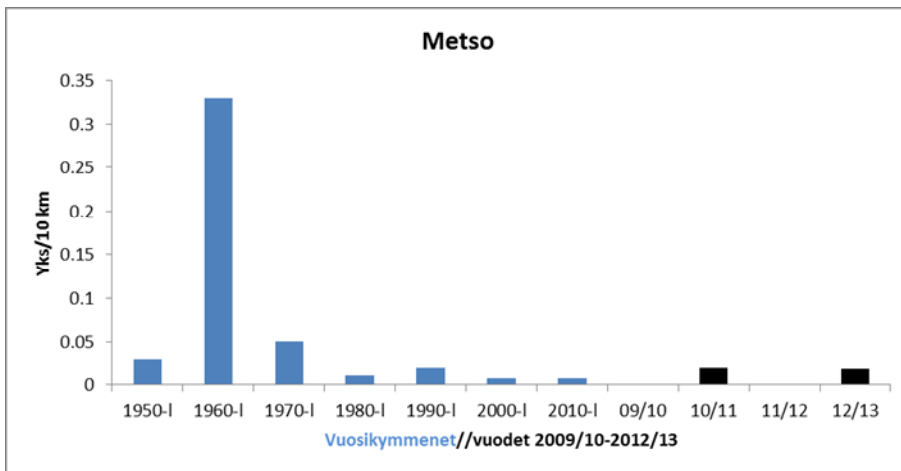
Kuva 9. ACCNIS



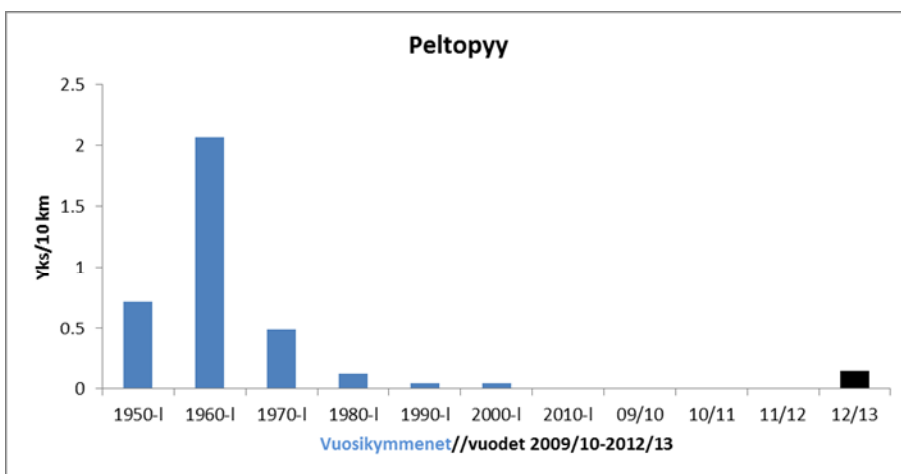
Kuva 10. BONBON



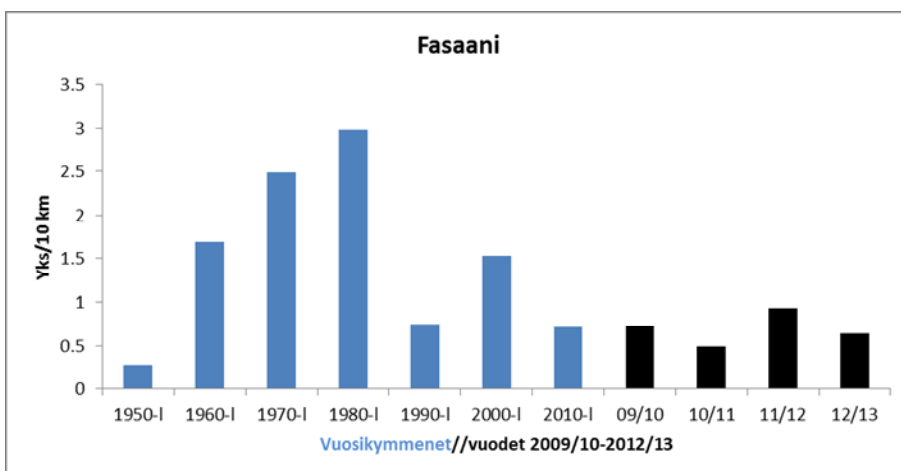
Kuva 11. TETRIX



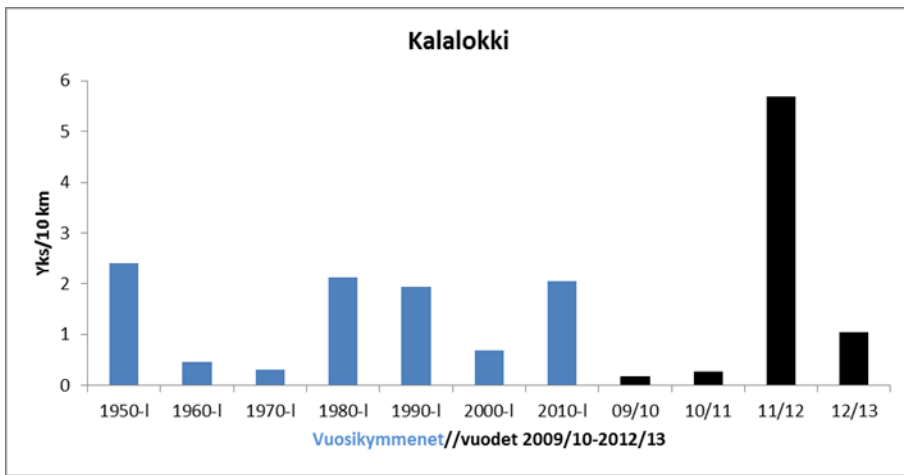
Kuva 12. TETURO



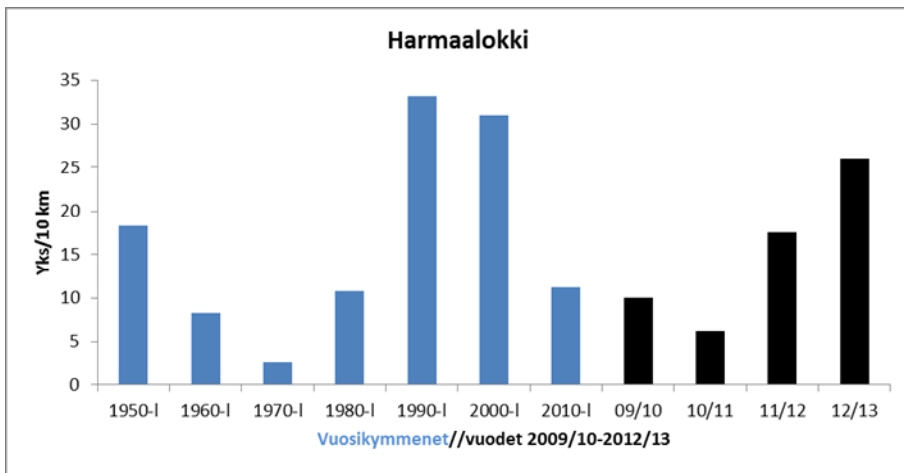
Kuva 13. PERPER



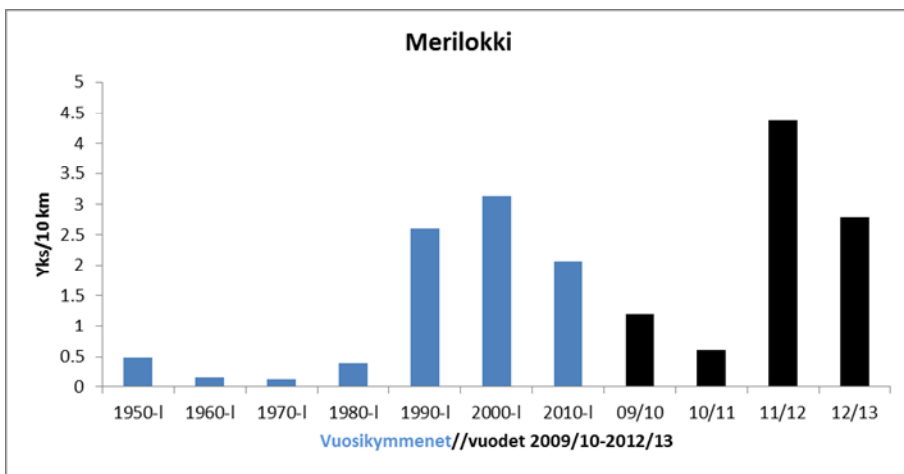
Kuva 14. PHACOL



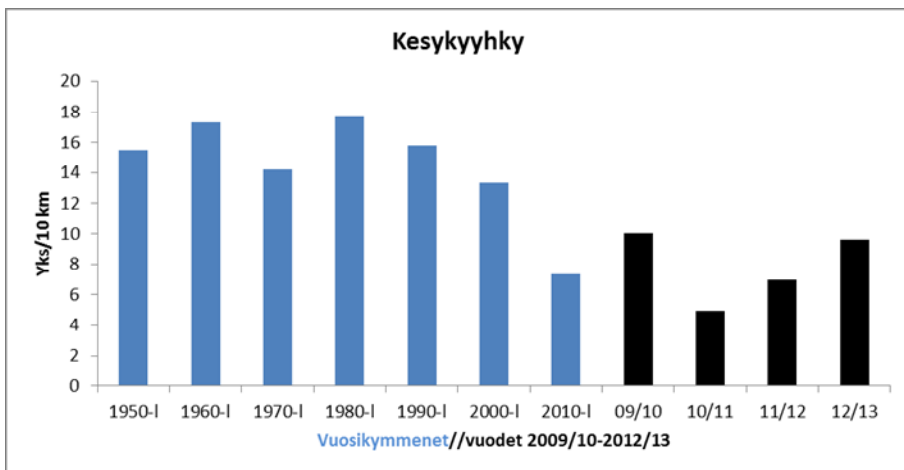
Kuva 15. LARCAN



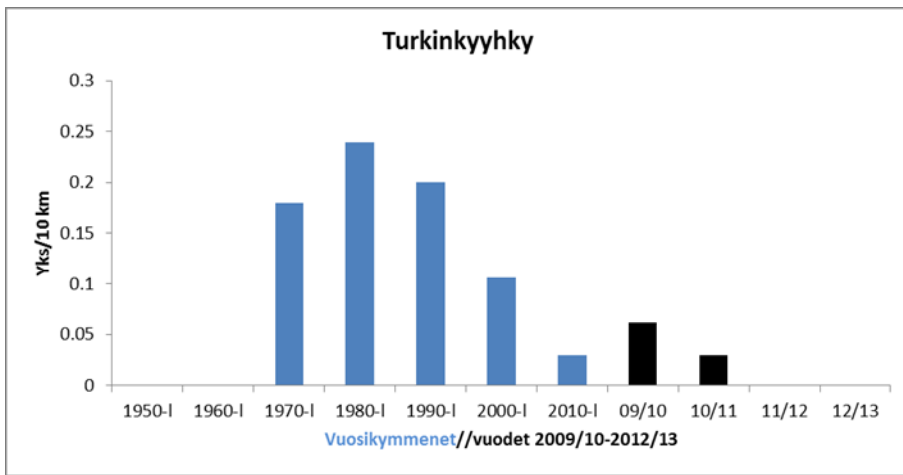
Kuva 16. LARARG



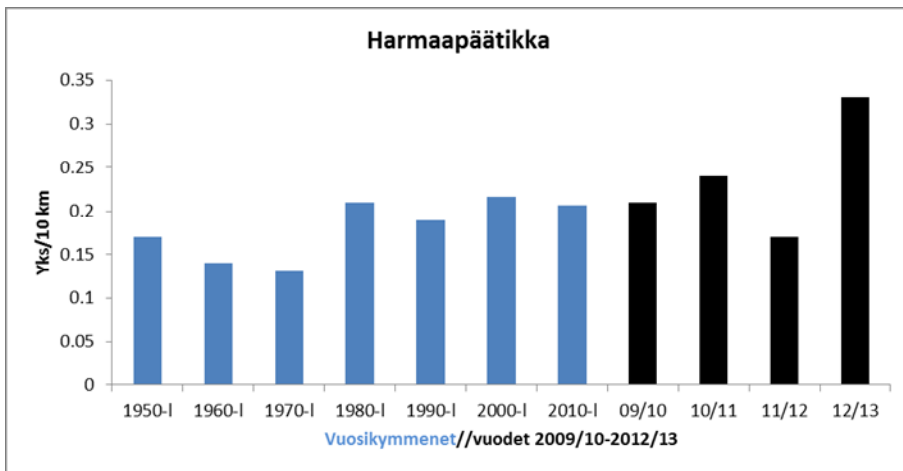
Kuva 17. LARMAR



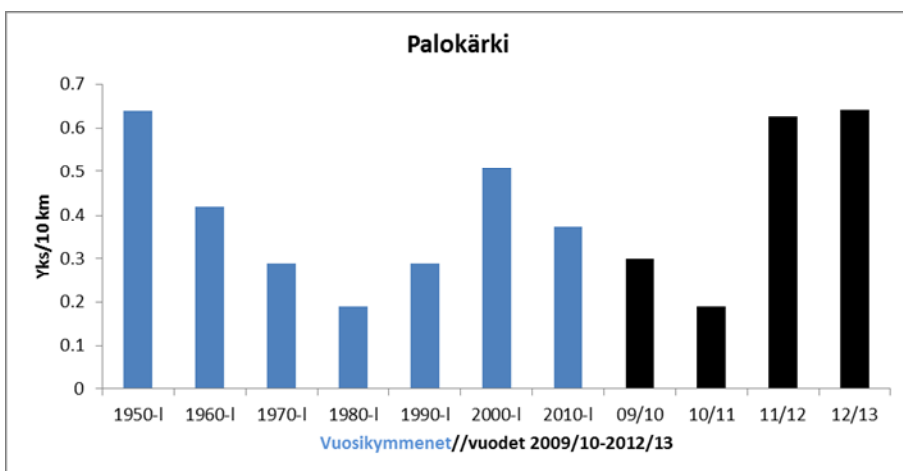
Kuva 18. COLLIV(DOM)



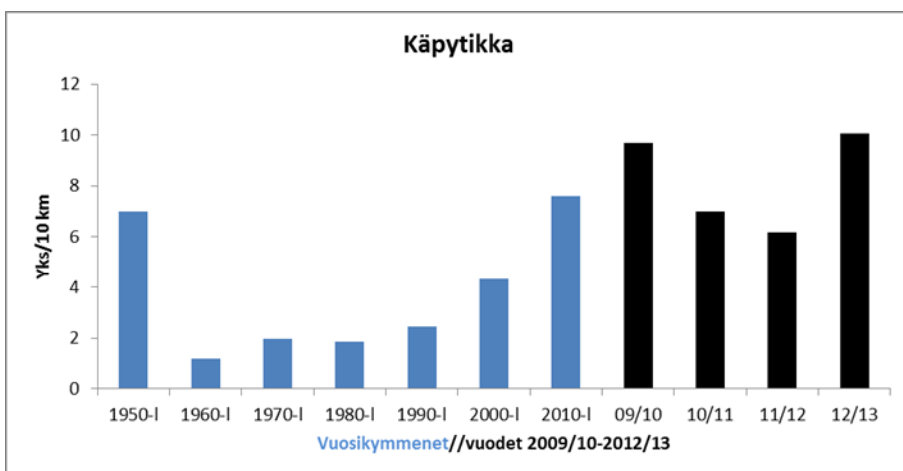
Kuva 19. STRDEC



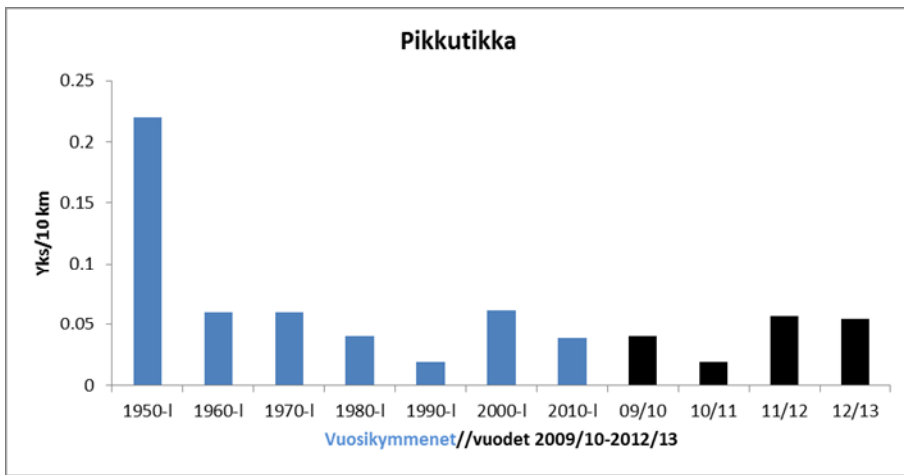
Kuva 20. PICCAN



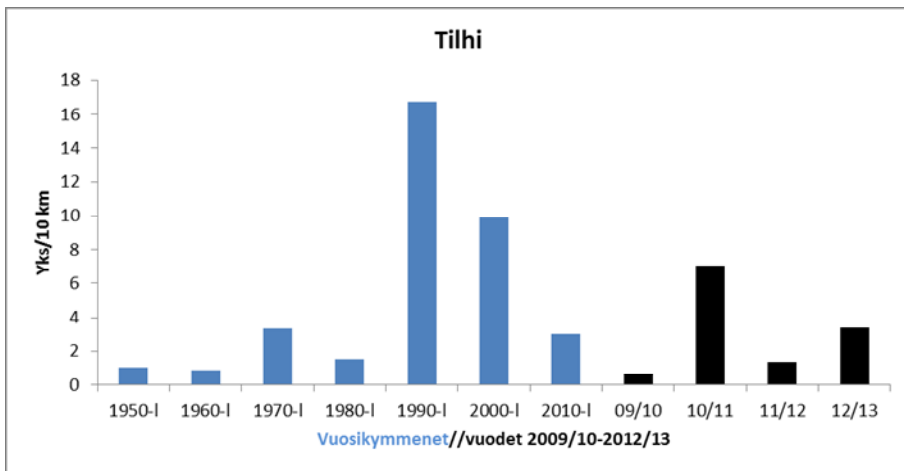
Kuva 21. DRYMAR



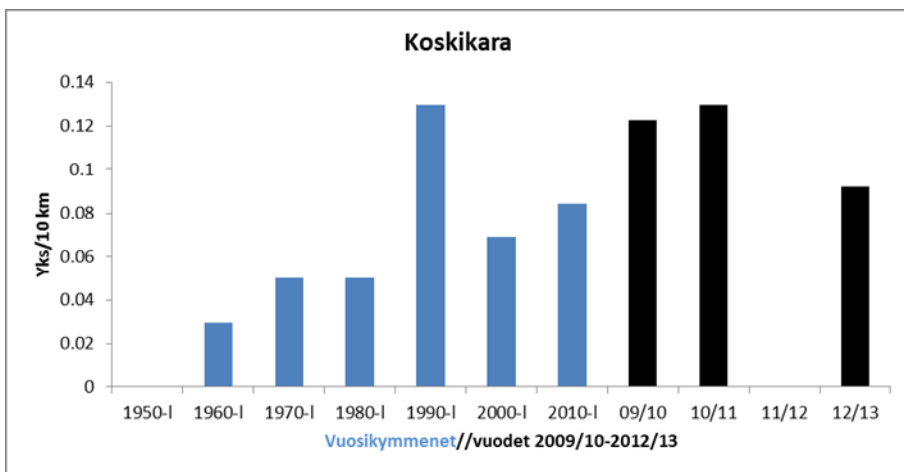
Kuva 22. DENMAJ



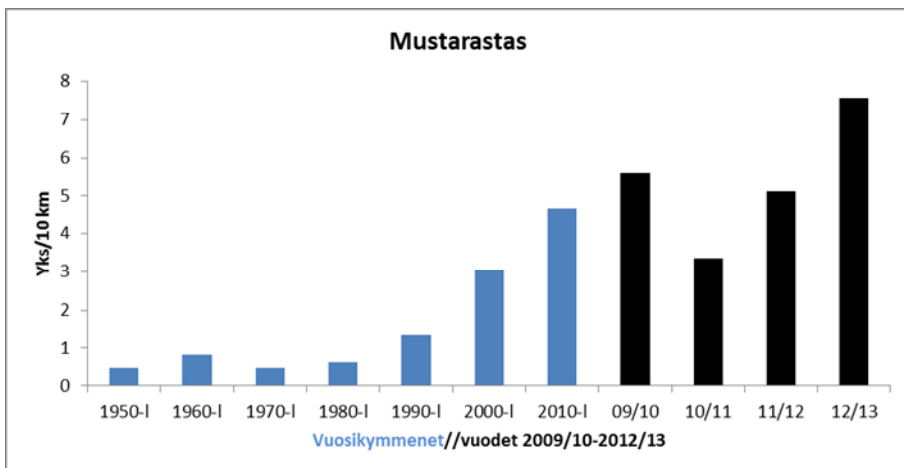
Kuva 23. DENMIN



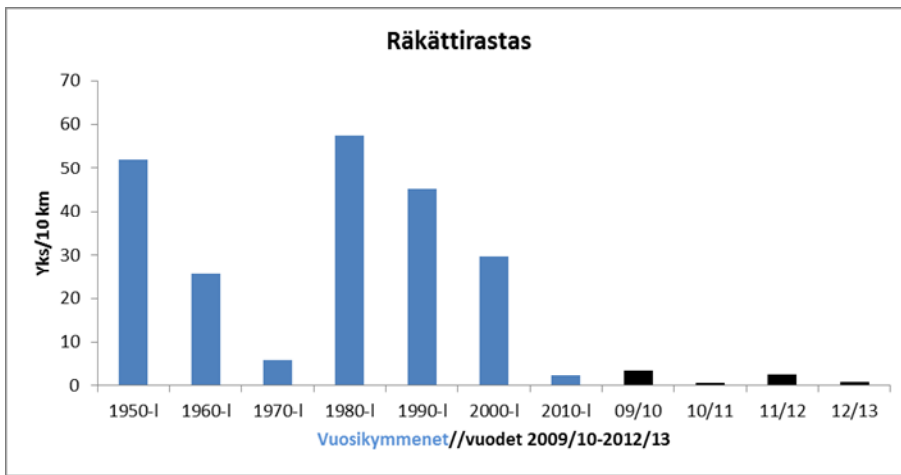
Kuva 24. BOMGAR



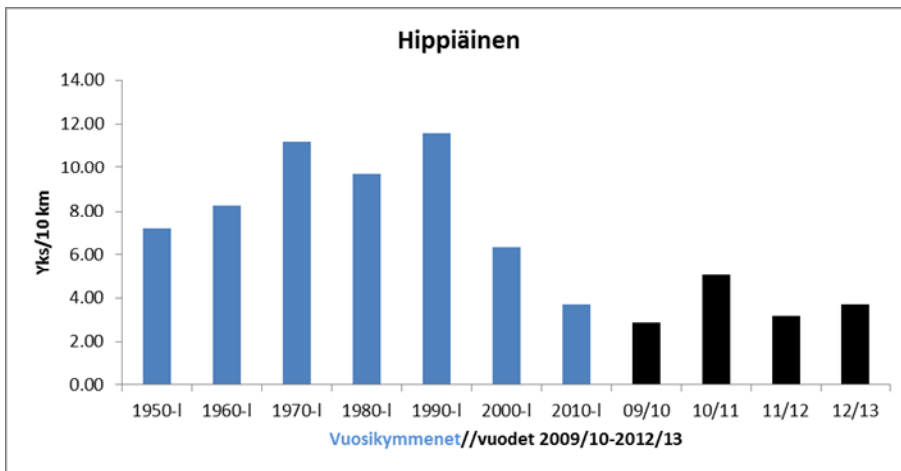
Kuva 25. CINCIN



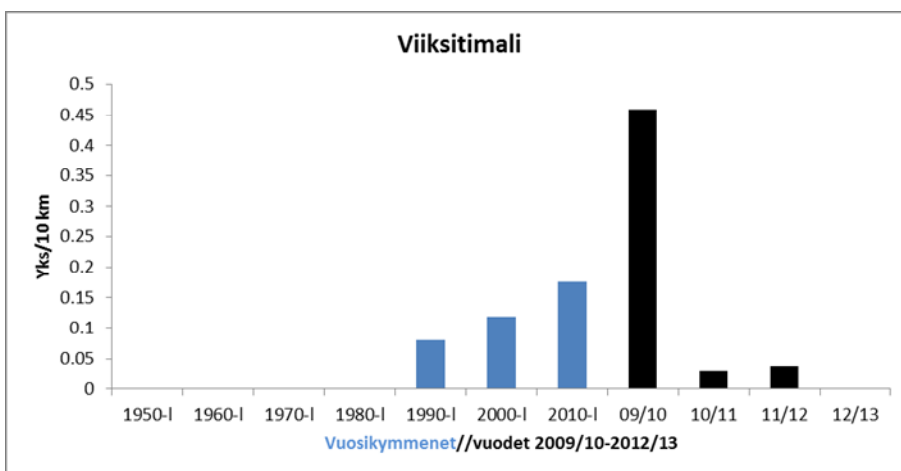
Kuva 26. TURMER



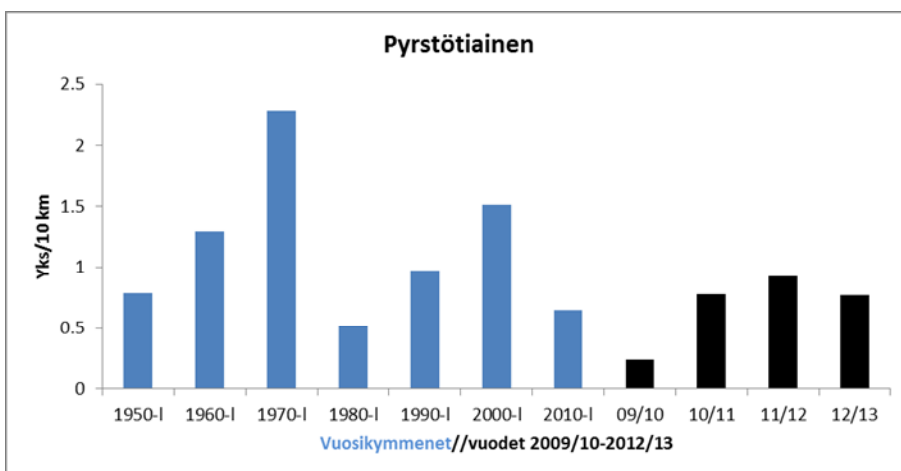
Kuva 27. TURPIL



Kuva 28. REGREG

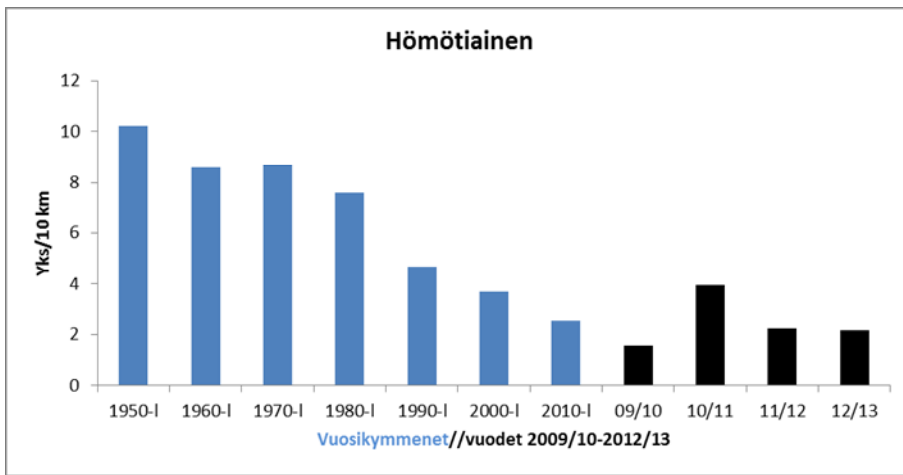


Kuva 29. PANBIA

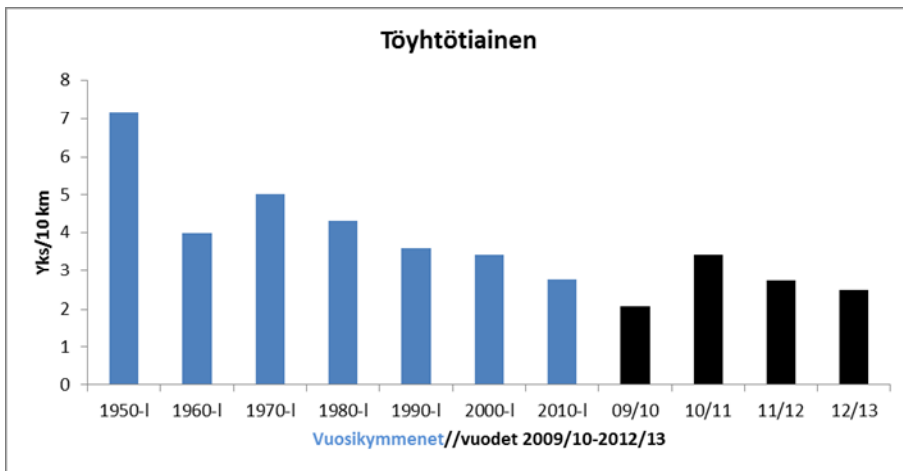


Kuva 30. AEGCAU

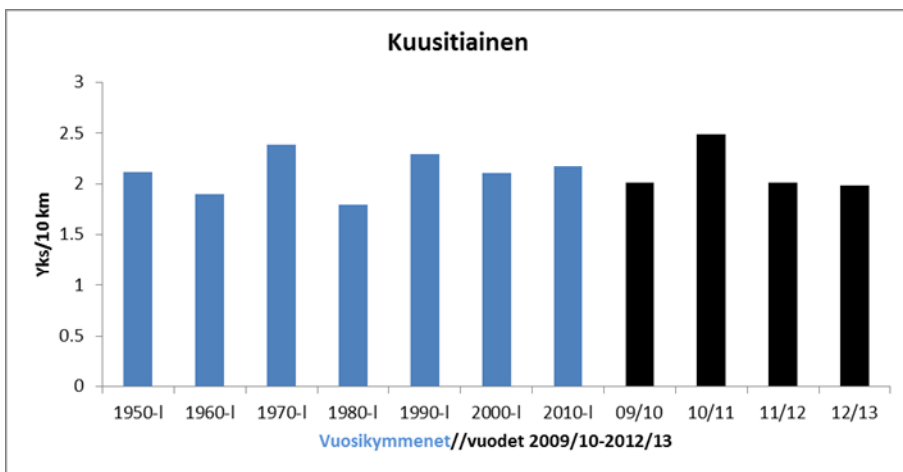




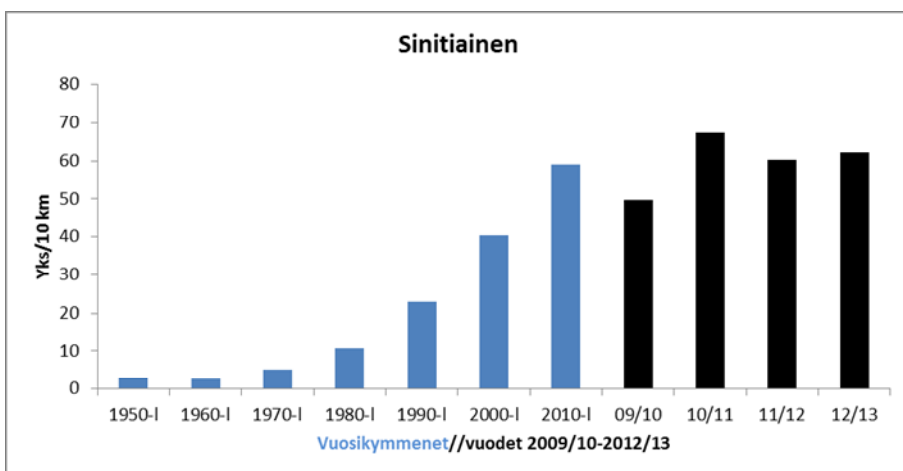
Kuva 31. PARMON



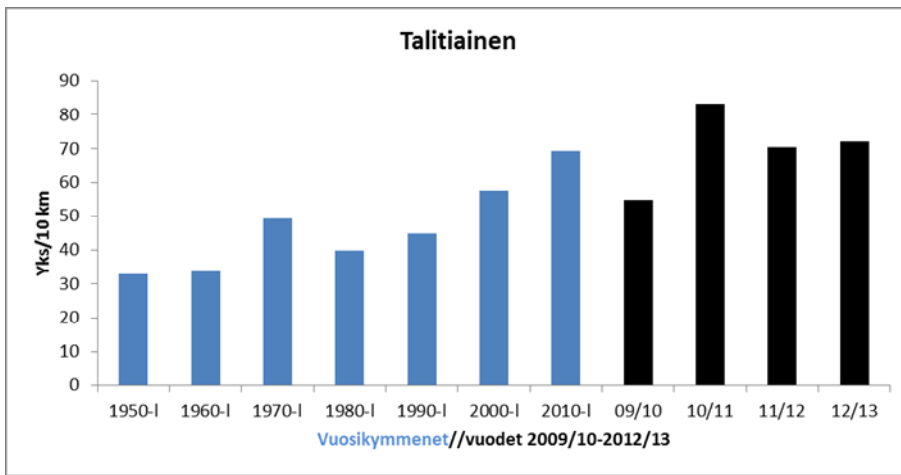
Kuva 32. PARCRI



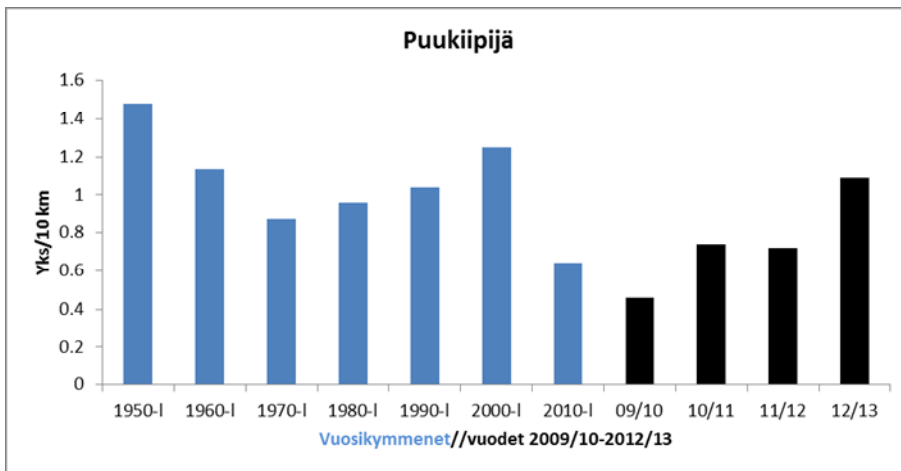
Kuva 33. PARATE



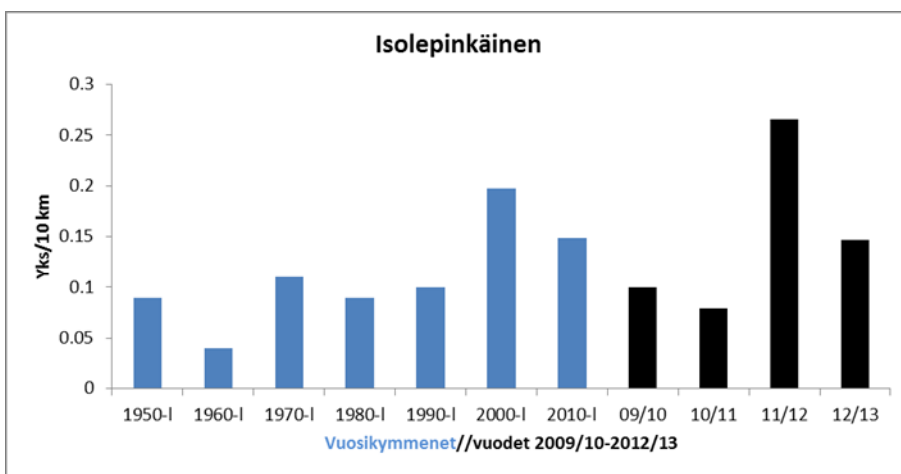
Kuva 34. PARCAE



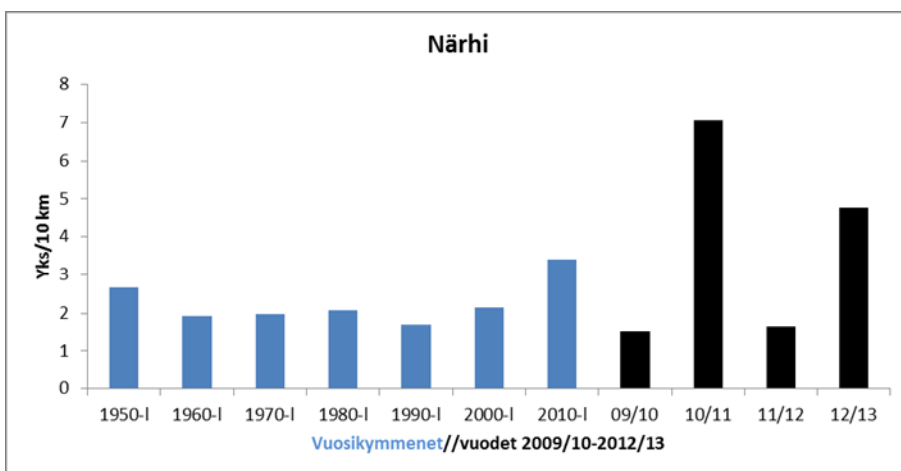
Kuva 35. PARMAJ



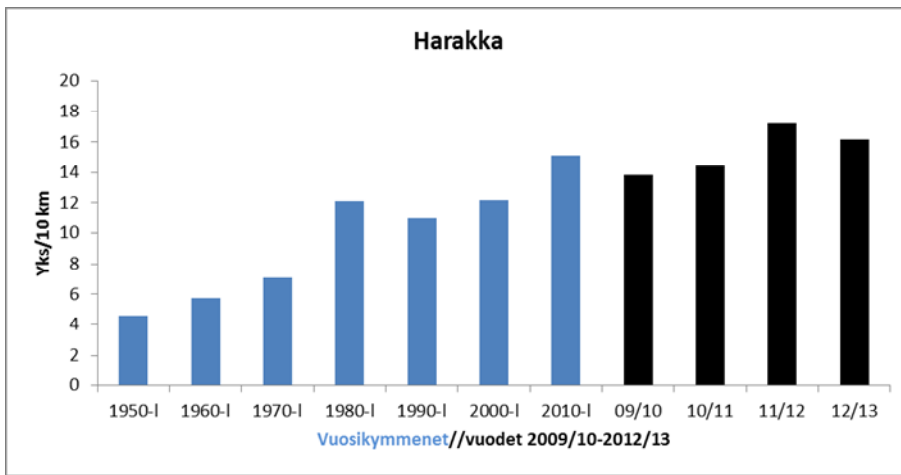
Kuva 36. CERFAM



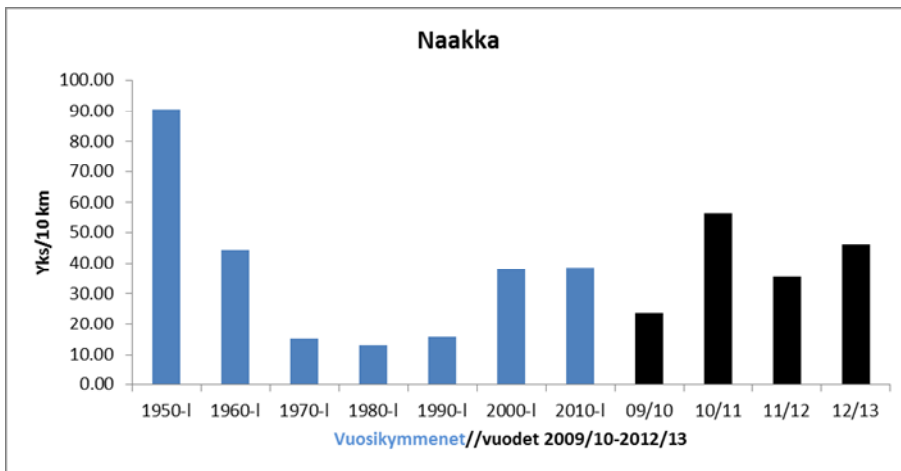
Kuva 37. LANEXC



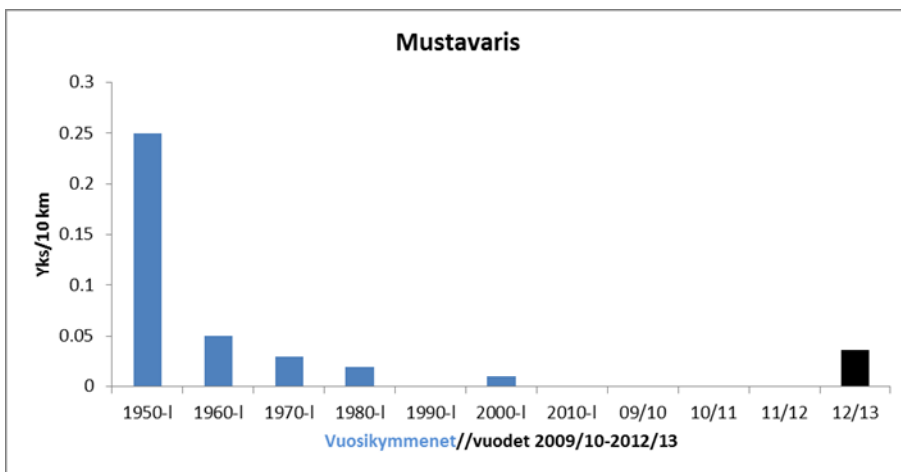
Kuva 38. GARGLA



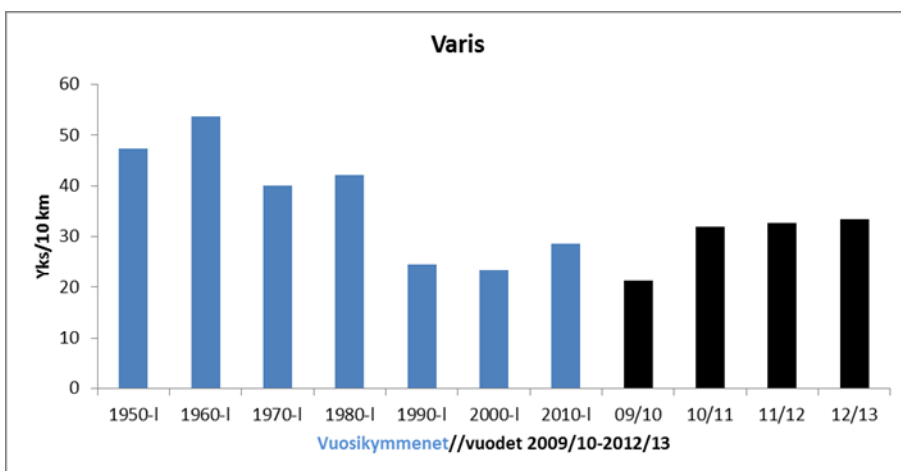
Kuva 39. PICPIC



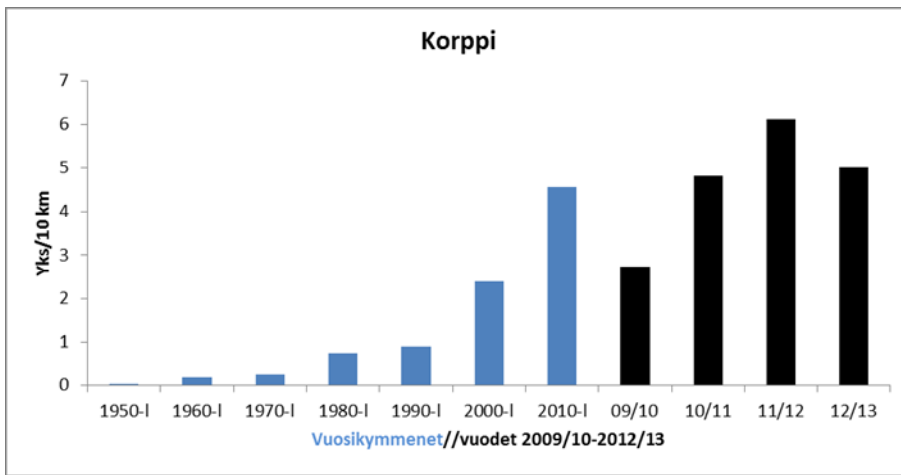
Kuva 40. CORMON



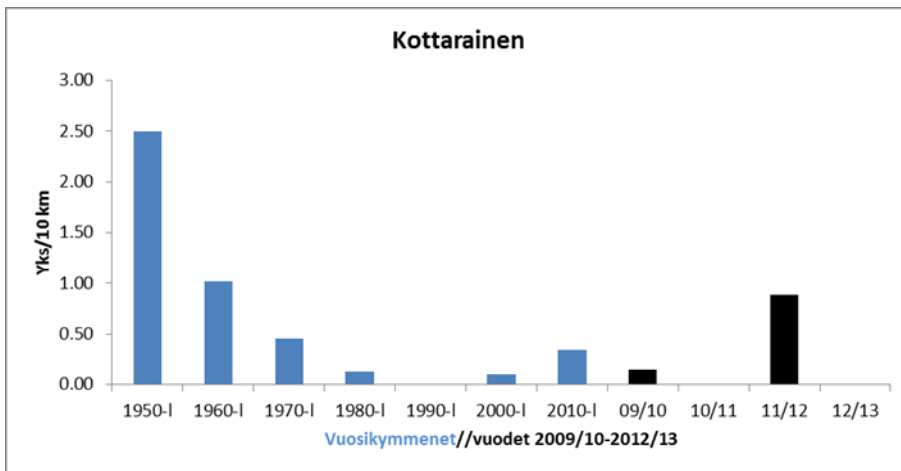
Kuva 41. CORFRU



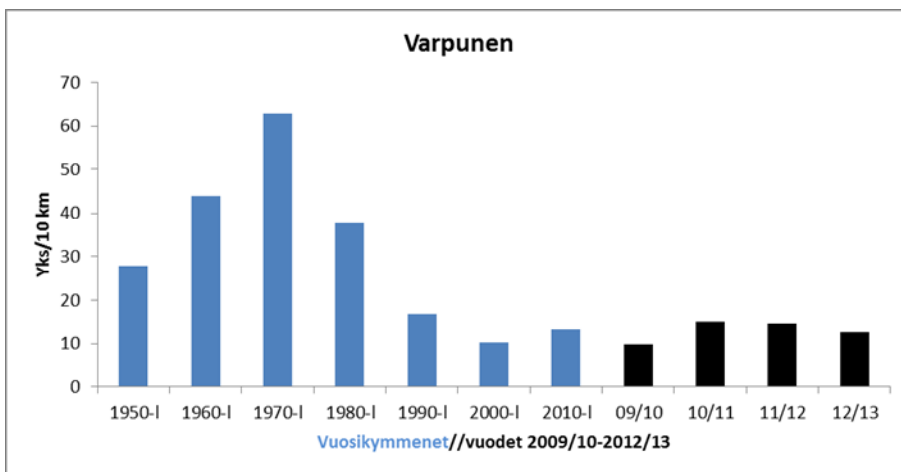
Kuva 42. CORNIX



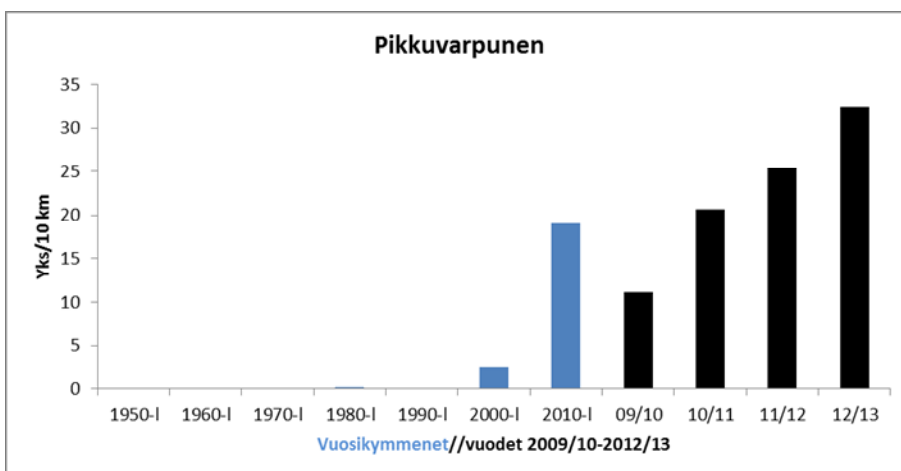
Kuva 43. CORRAX



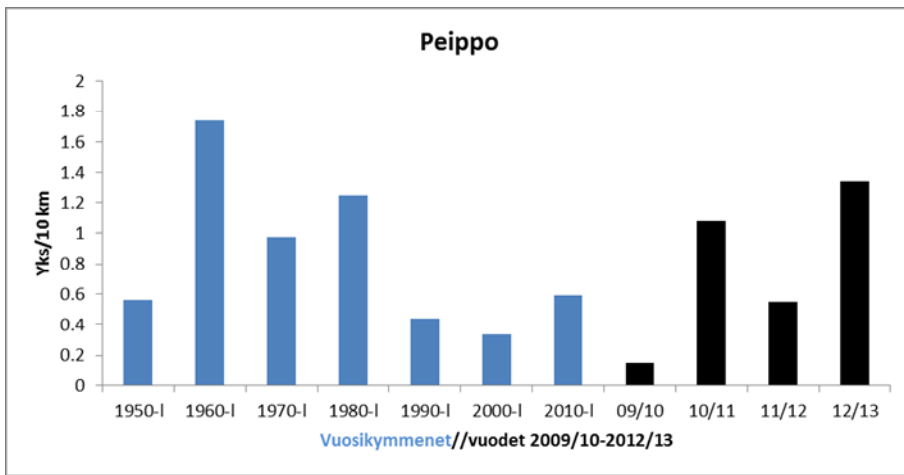
Kuva 44. STUVUL



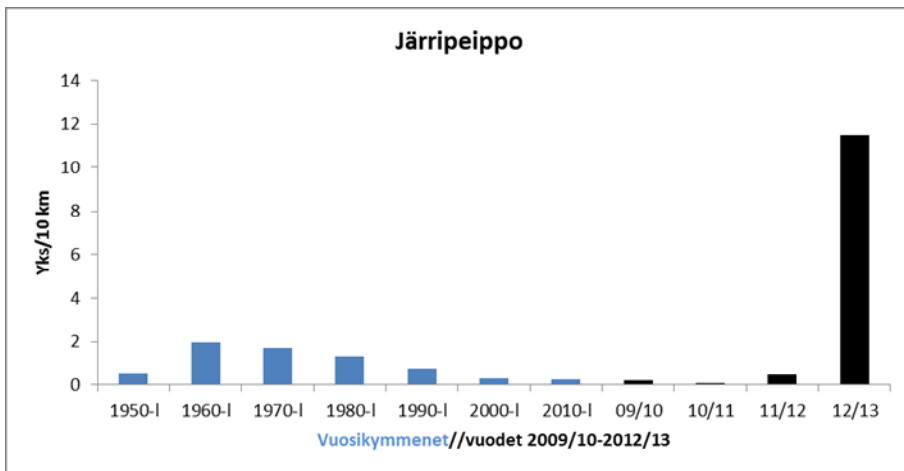
Kuva 45. PASDOM



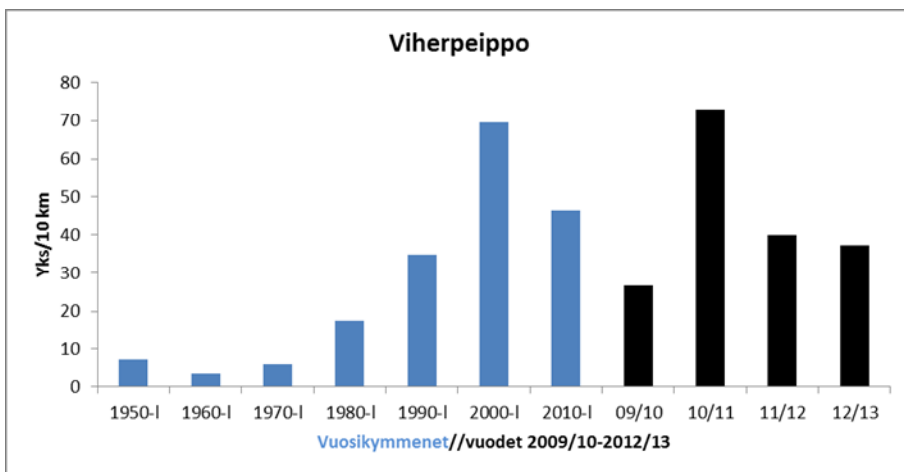
Kuva 46. PASMOM



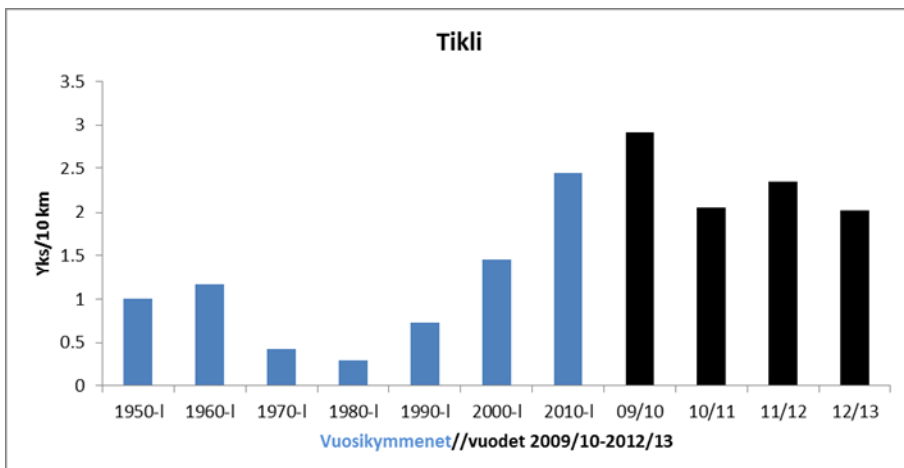
Kuva 47. FRICOE



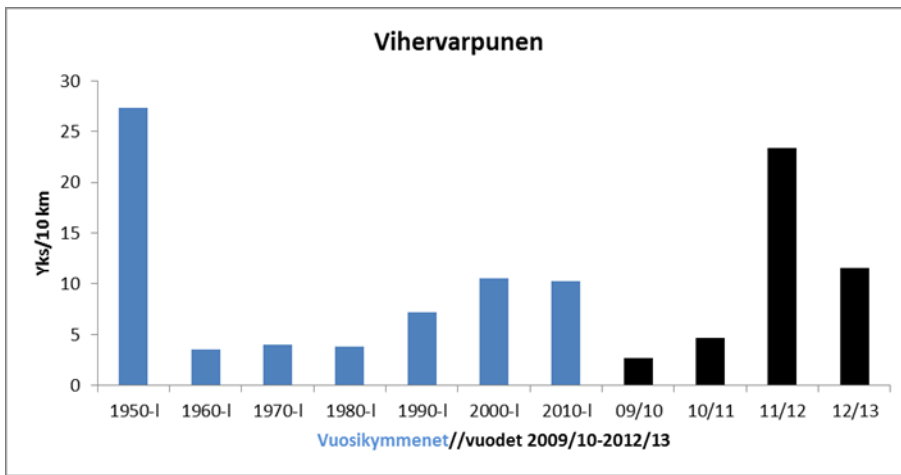
Kuva 48. FRIMON



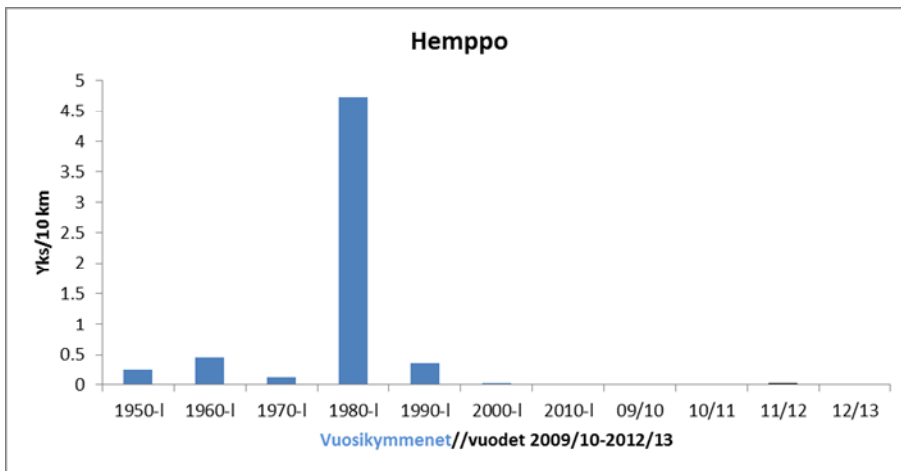
Kuva 49. CARCHL



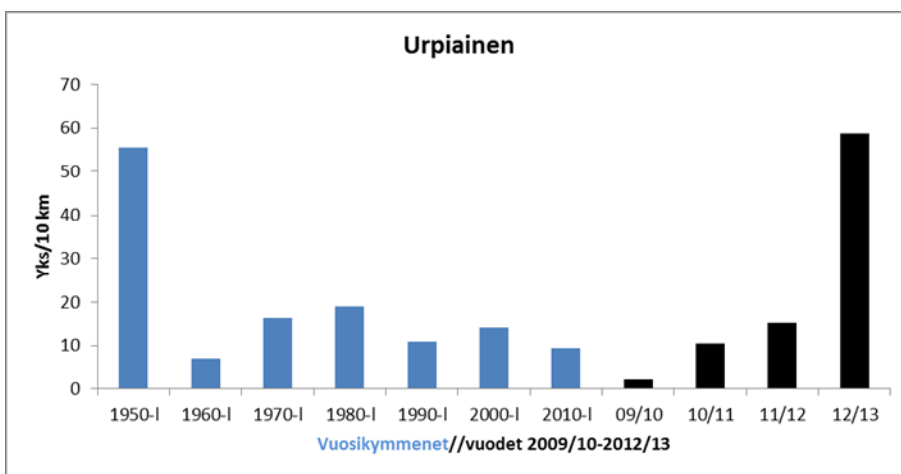
Kuva 50. CARCAR



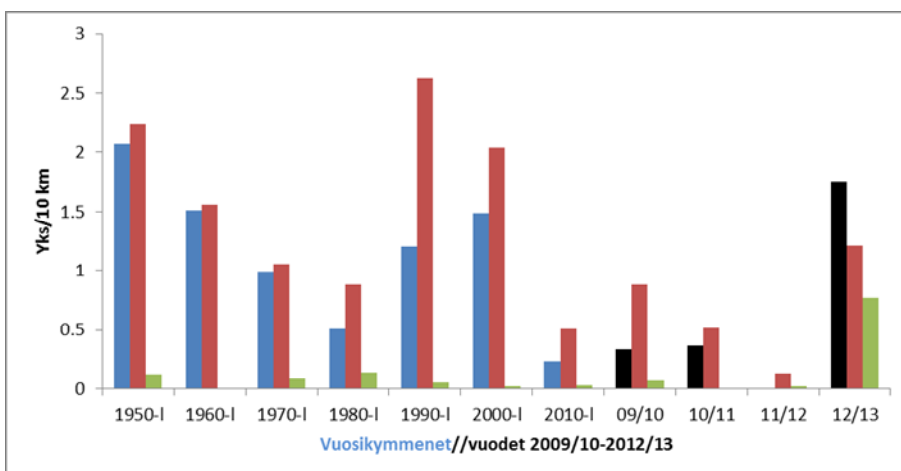
Kuva 51. CARSPI



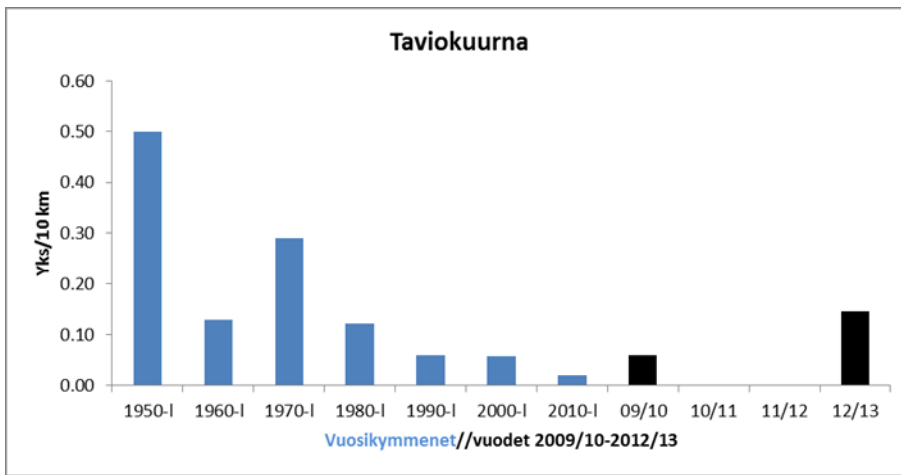
Kuva 52. CARCAN



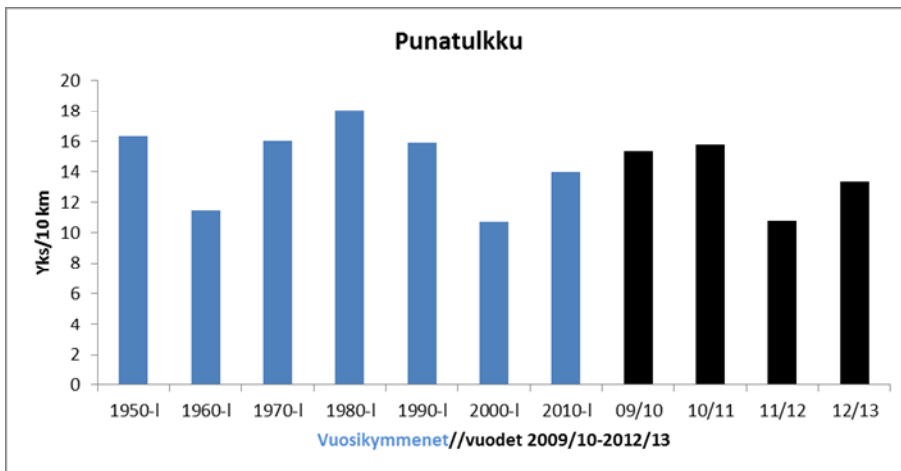
Kuva 53. CARMEA



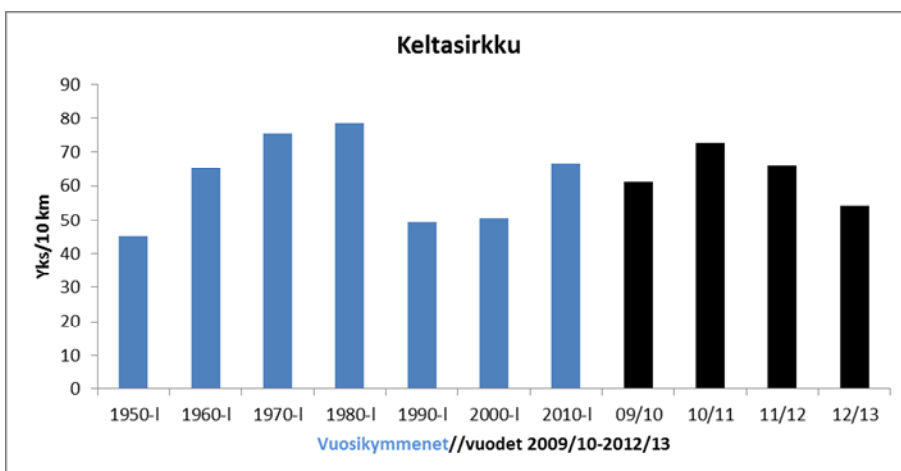
Kuva 54. Lox\_cur\_sp\_pyt



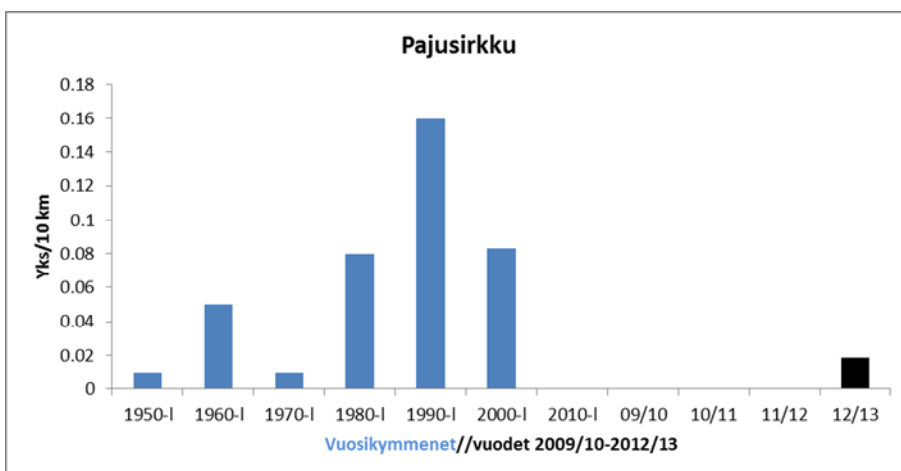
Kuva 55. PINENU



Kuva 56. PYRPYR



Kuva 57. EMBCIT



Kuva 58. EMBSCH