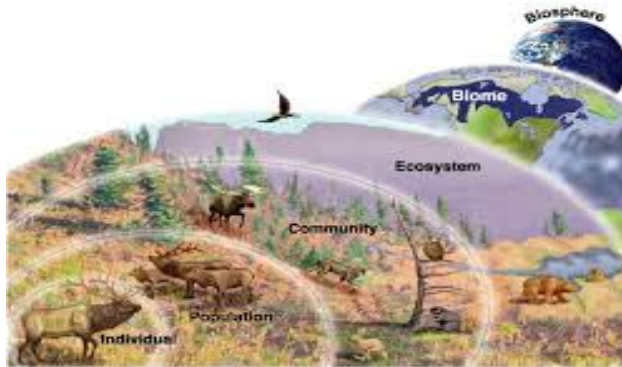


Modelos ecológicos aplicados a indivíduos, populações e comunidades



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Exemplo de alguns modelos disponíveis:



Indivíduos/Organismos

- Modelos de captura e recaptura;
- Estimativa de área de vida;
- Movimento animal;

Populações

- Modelos de distribuição de espécies;
- Modelos de ocorrência;
- Modelos de coocorrência (< 4 espécies);

Comunidades

- Modelos de coocorrência (> 4 espécies);
- Modelos de riqueza de espécies;
- Redes de interação;

Indivíduos: Primeiros estudos de captura e recaptura

American Fisheries Society Symposium 7:9-29, 1990

EXTERNAL TAGS AND MARKS

Historical Review of the Development of External Tags and Marks

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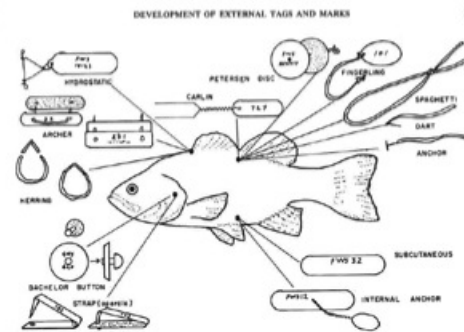


FIGURE 3.—Principal types of external tags and anatomical sites for attachment on fish.

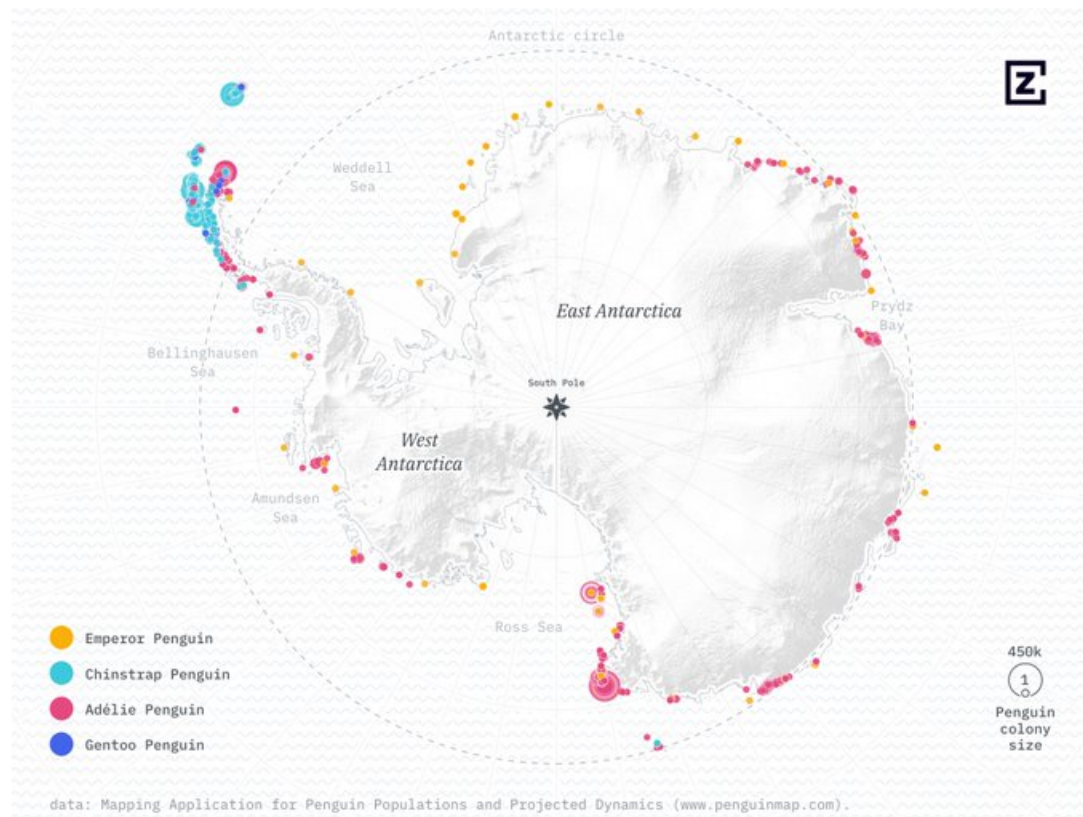
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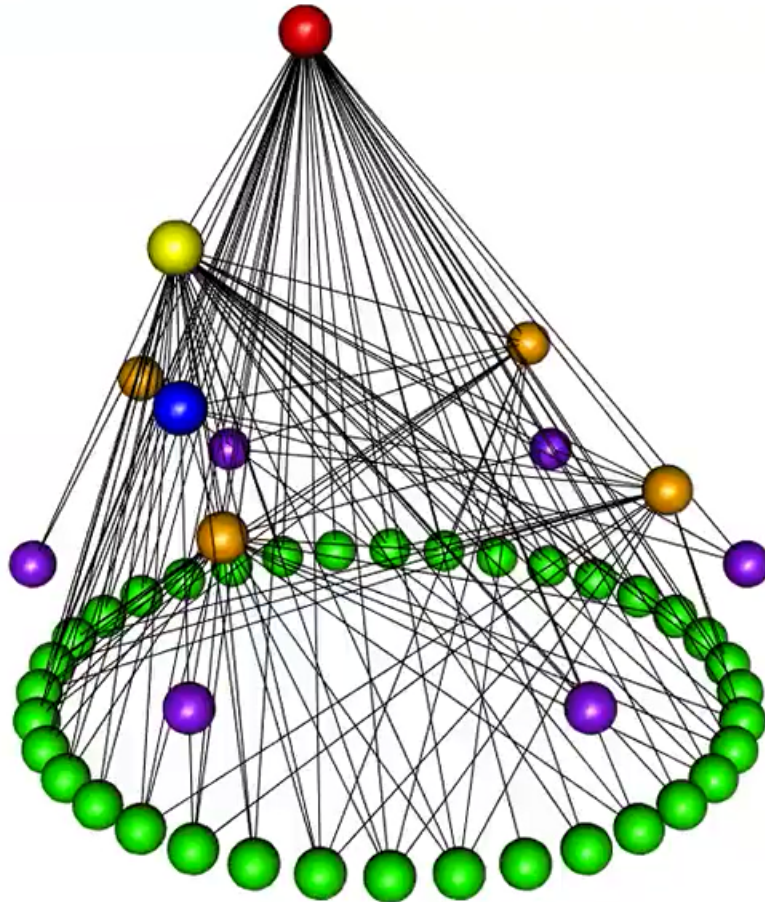
MCFARLANE ET AL.

TABLE 1.—Historical development of tags and marks to identify fish.

Tag or mark	Year	Species ^a	Remarks	Reference
Attachment tags: ribbons, threads, wires				
Ribbons; colored wool	1653	Atlantic salmon	Attached by private landowners	Walton and Cotton (1896)
Wire in tails or jaws	1851	Atlantic salmon	Attached by private landowners	Delany (1978)
Archer tag	1888	Atlantic salmon	Flat strip of silver with ends pointed and at right angles attached to dorsal fin	Rounsefell and Kask (1945)
Silver wire loops	1905	Tay salmon		Delany (1978)
Collar tag	1872	Atlantic salmon	Rubber band encircling caudal peduncle	Marukawa and Kamiya (1936)
Collar tag	1911	Bluefin tuna	Copper chain encircling caudal peduncle	Sells (1924)
Collar tag	1925	Mackerel	Celluloid poultry tag band around caudal peduncle	Rounsefell and Kask (1945)
Hook tag	1927	Tuna	Numbered hooks to indicate locality	Rounsefell and Kask (1945)

Populações: Escala espécies





Tipo de modelos:

Closed population



Open population



Pollock's Robust Desing (Pollock, 1982)

