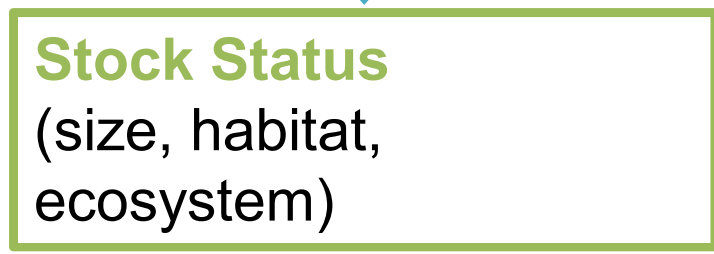
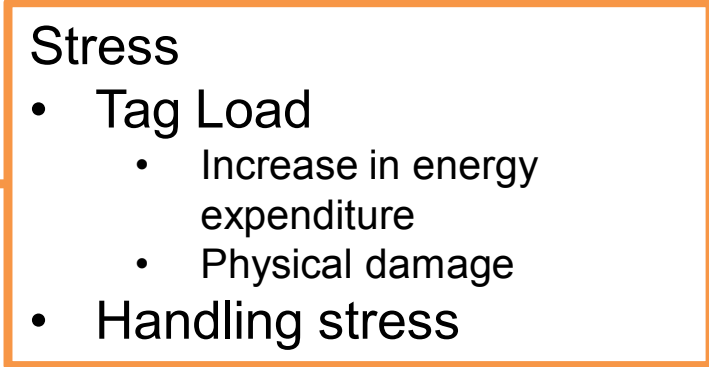
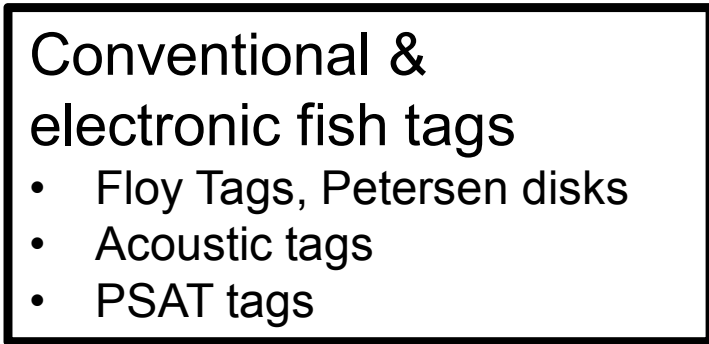
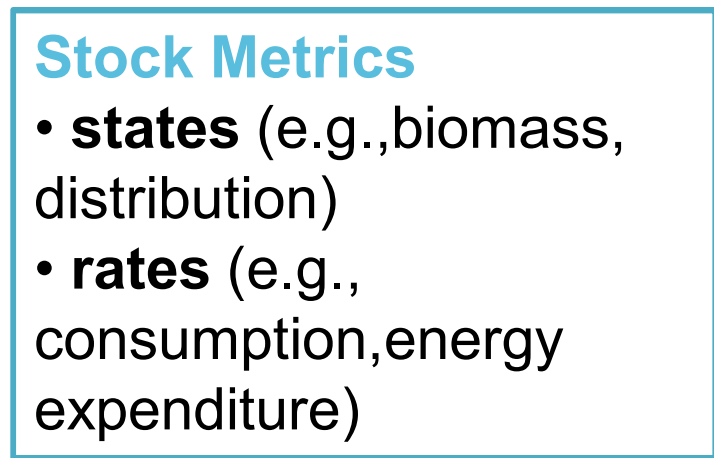


A new method for quantifying post-tagging behaviour and stress response in fish

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Sudy Overview:

Can tag load associated stress be quantified using accelerometer tags in Atlantic Cod (*Gadus Morhua*)?

Tag and Tag load related stress in Atlantic Cod

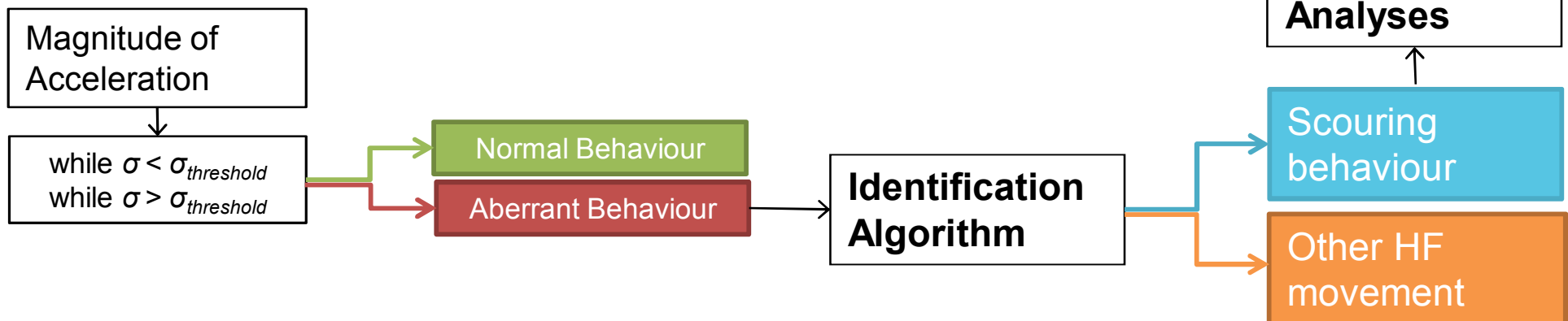
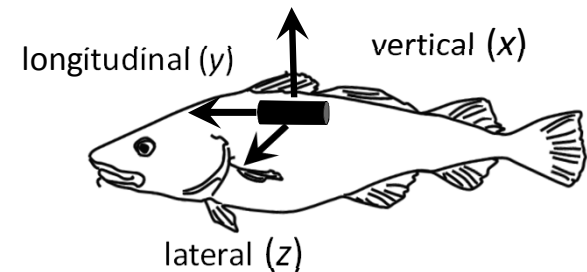


Experiment Design

- Atlantic Cod (n = 26)
- accelerometer tags (19.7 g vs. 6.1 g) temporarily attached externally
- Animals exhibit tag-load reducing behavior, where they 'scrub' their sides along the bottom of the tank until tags are dislodged

Accelerometer Signal Processing

Developed extraction algorithm that identifies tag-load reducing behaviour



Tag and Tag load related stress in Atlantic Cod

- No effect of fish size
- Diurnal: % day > % night scouring
- Effect of Tag Load
 - Lateral A_{max} larger tag > smaller tags
 - % time scouring does not differ
 - High variation among individuals

