

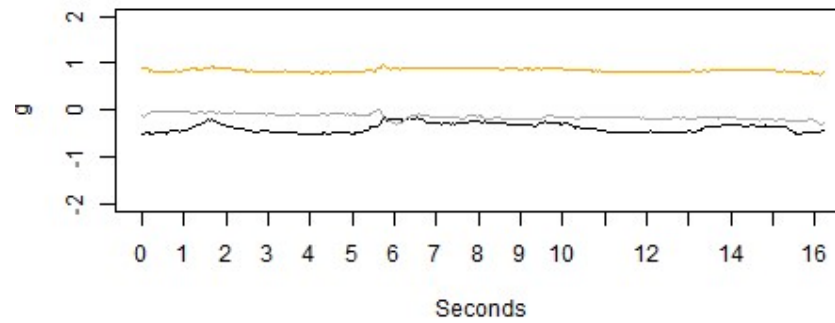
S1 File. Description and acceleration profile for 26 unique behaviours recorded. Black line – x axis acceleration; grey line – y axis acceleration; orange line – z axis acceleration.

Behaviour Behaviour description

RESTING

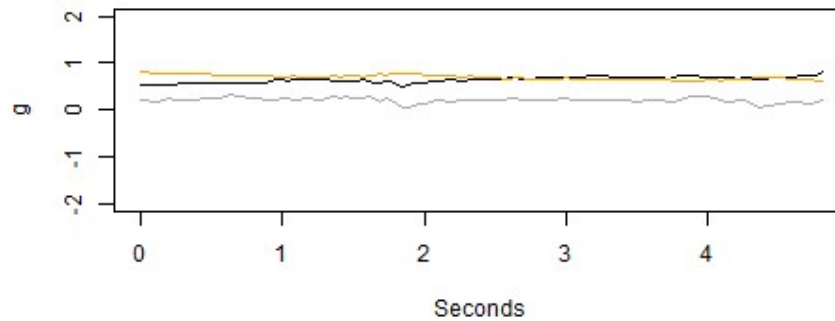
Lying

Full body contact to the ground with minimal movement



Sitting

Perched on fore-flippers with rear on ground, head up and alert with minimal movement

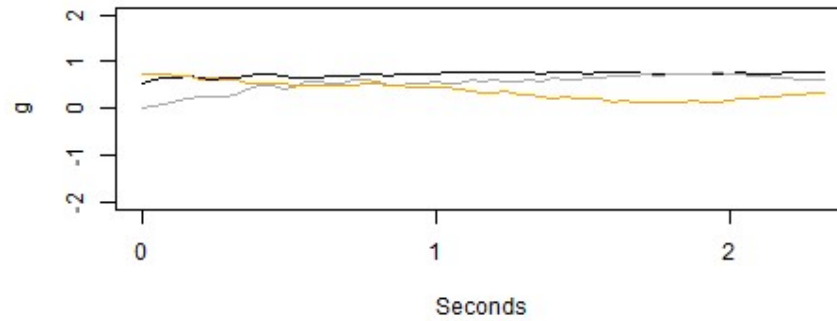


Behaviour

Behaviour description

Still

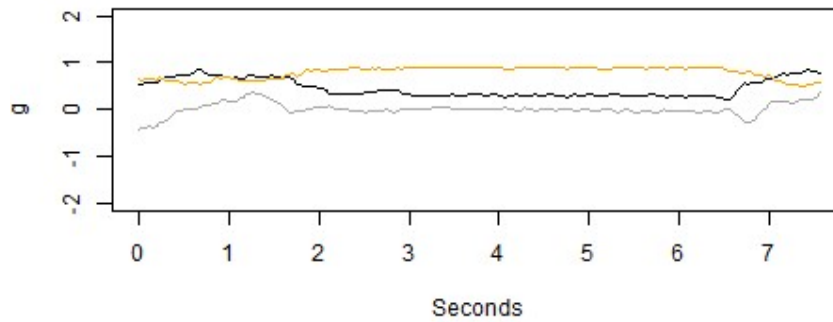
Floating at the surface or beneath the surface of the water with no movement



GROOMING

Scratch

Perched on fore-flippers with rear on ground, head down towards rear and one rear flipper scratching neck or head

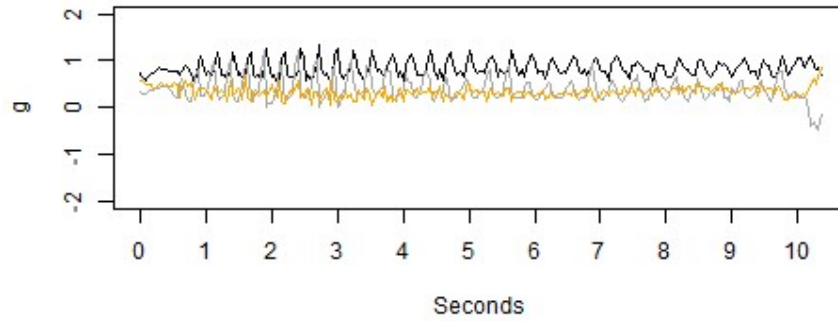


Behaviour

Behaviour description

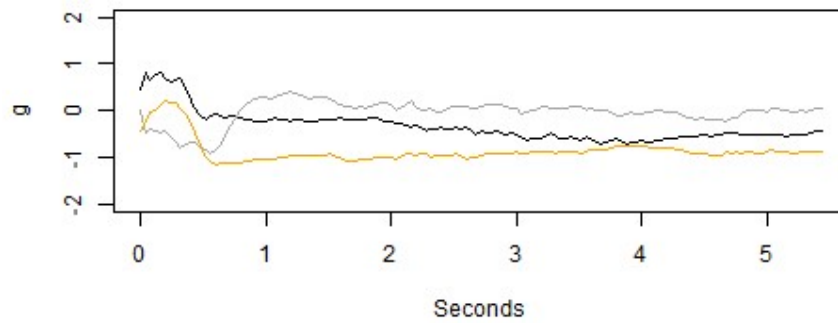
Rubbing

Using the fore-flipper to rub the fur on the rump



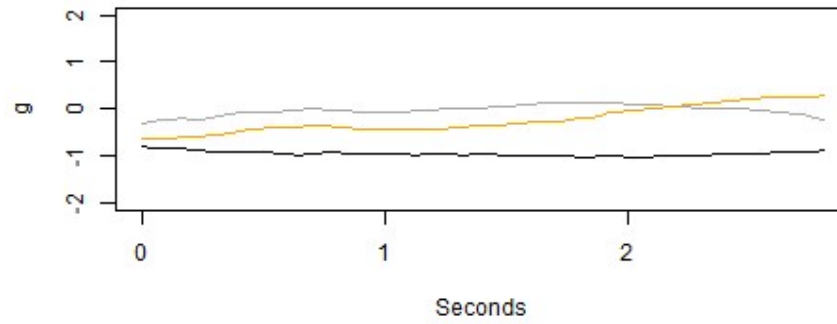
Sailing

Lie vertically in the water with one flipper in the air



Juggling

Hanging upside down in water with hind flippers in the air

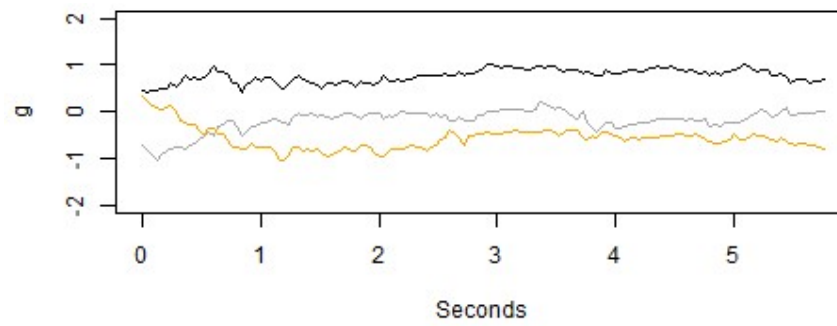


Behaviour

Behaviour description

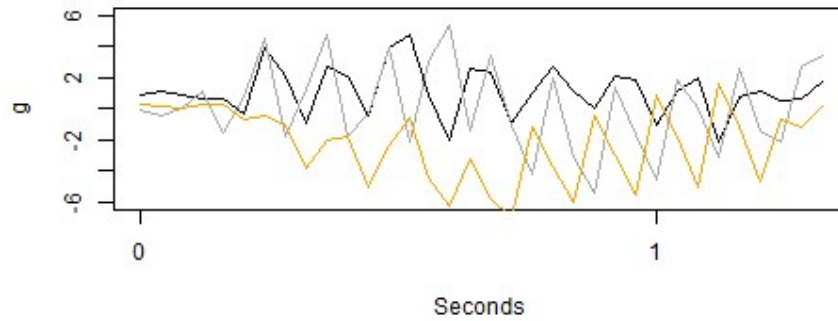
Facerub

Using fore-flippers to rub face and whiskers



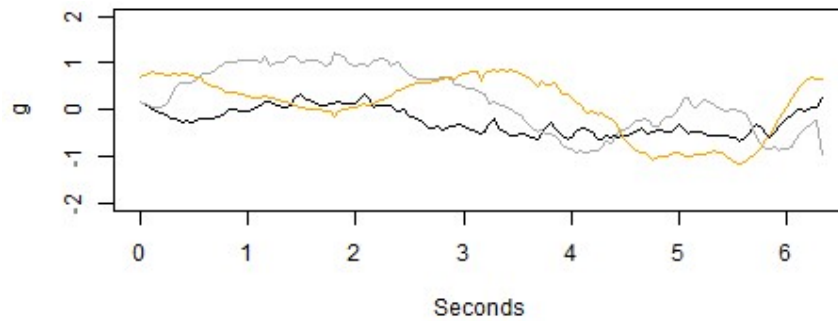
Shake

Short and sharp movement of the head left and right to remove water from the fur



Rolling

Rolling at the surface of the water and rubbing fur with the flippers (Liwang 2010)



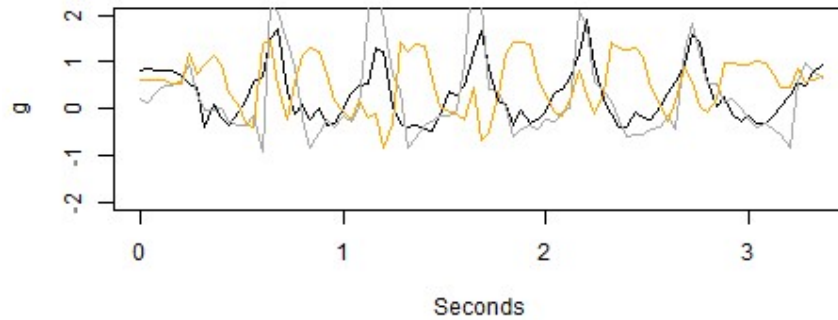
Behaviour

Behaviour description

TRAVELLING

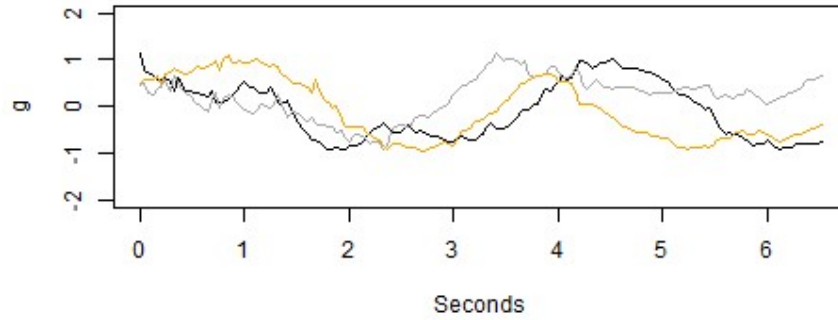
Moving

Locomotion out of water, four flippers used as legs, stomach does not touch the ground



Slow

Locomotion at the surface of the water, using fore-flippers to move forward

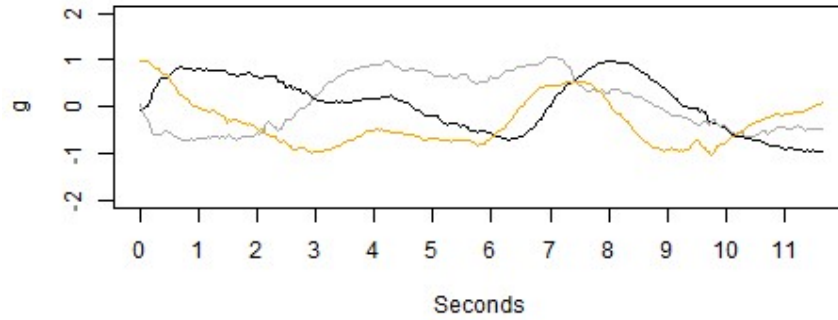


Behaviour

Behaviour description

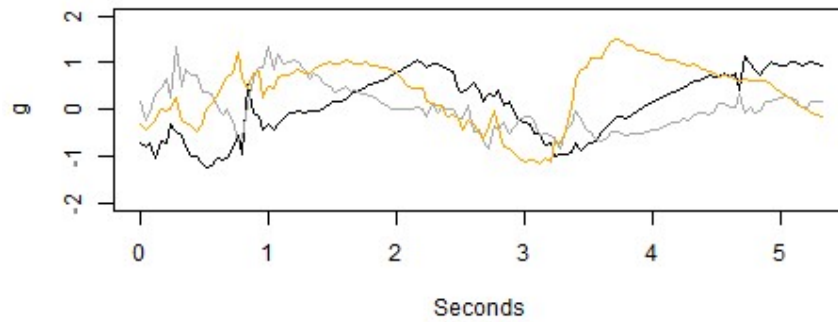
Swimming

Locomotion below the surface of the water using front flippers for propulsion



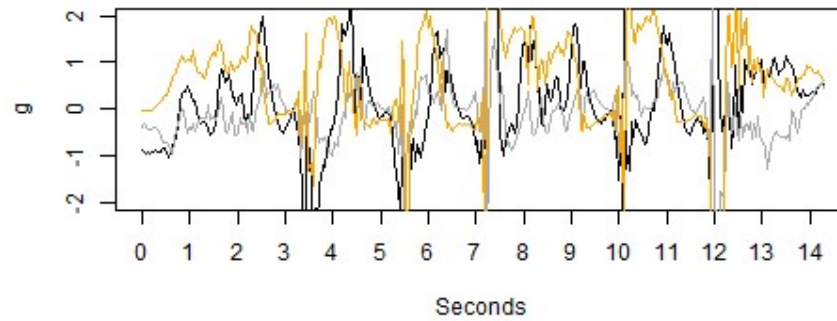
Fast

Rigorous propulsion of the fore-flippers at the surface of the water to accelerate (preceded by a small jump and followed by a glide)



Porpoising

Fast swimming near the surface accompanied by parabolic leaps (Au and Weihs, 1980)



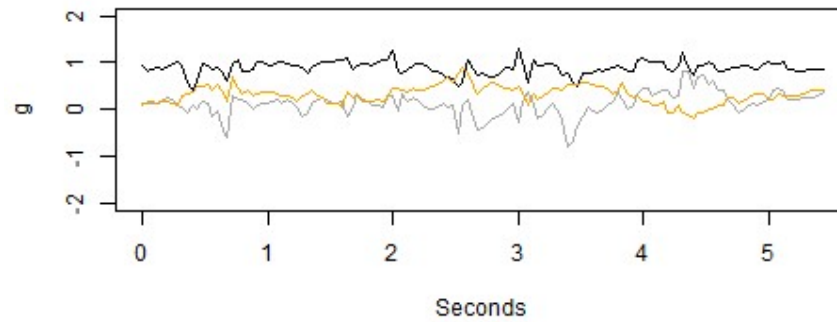
Behaviour

Behaviour description

FEEDING

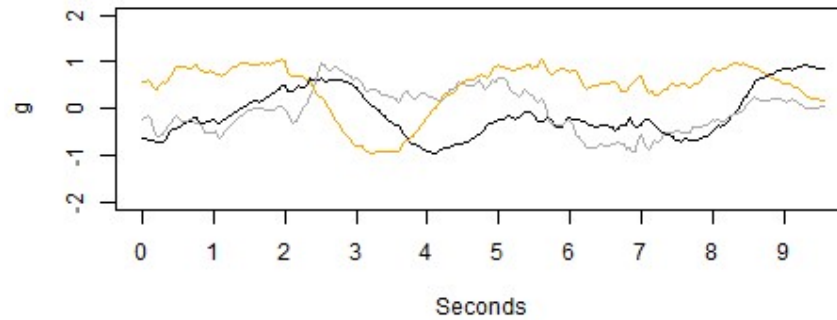
Chewing

large head movement at the surface of the water to break food



Searching

Locomotion below 1m actively searching for or manipulating food

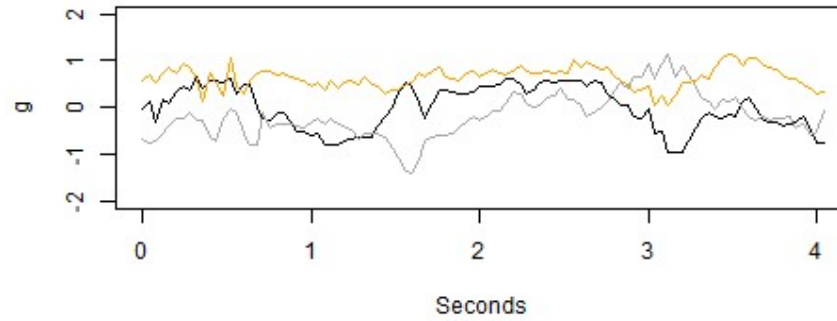


Behaviour

Behaviour description

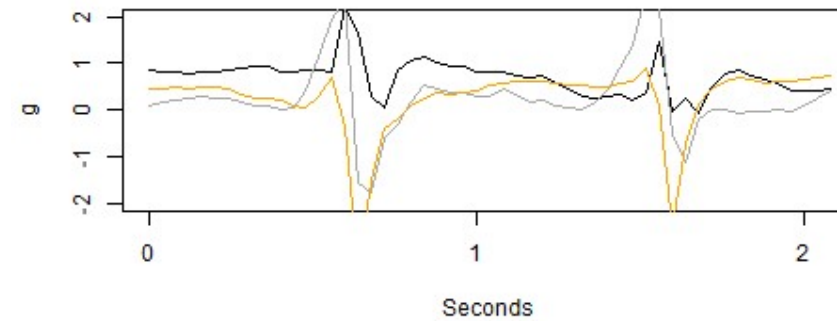
Capture

Head strike to capture food from the water column while swimming



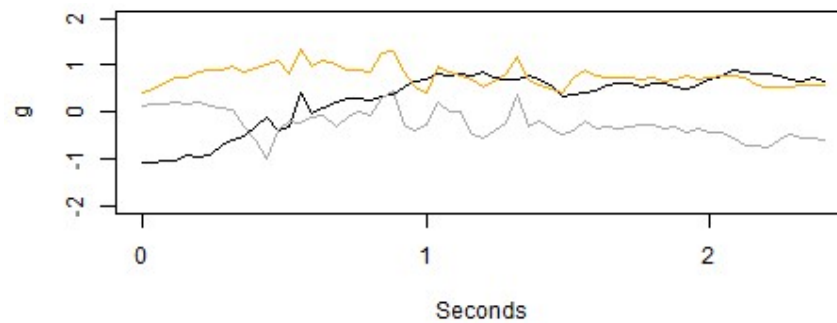
Thrash

Quick movement of the head back and forth while holding a prey item between teeth
Elongated movement of the head back and forth with the purpose of breaking prey



Manipulation
[prey handling]

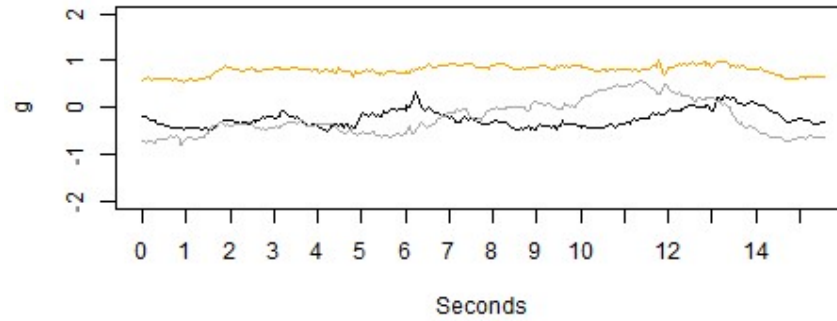
moving prey at the surface of the water (>1m) to manipulate into the best position for consumption



Behaviour Behaviour description

Holdntear

Grip prey between the fore-flippers in an upright position and use teeth to tear pieces of fish from the body

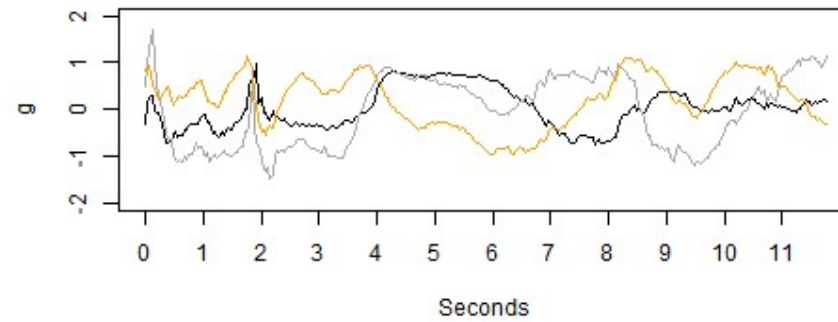


More

Description

Playing

Rapid movements when interacting with other seals



Other

in/out/jump/eating