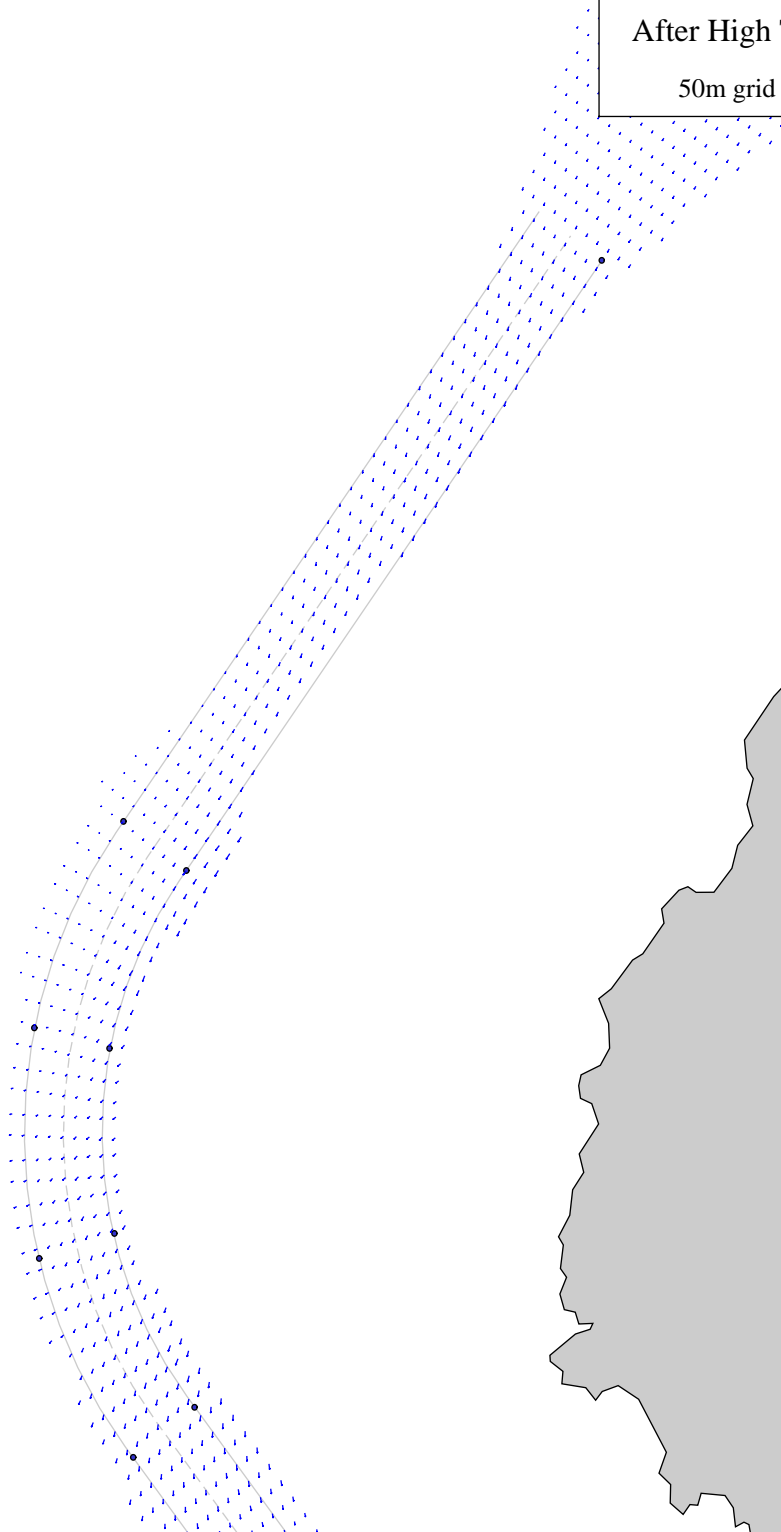
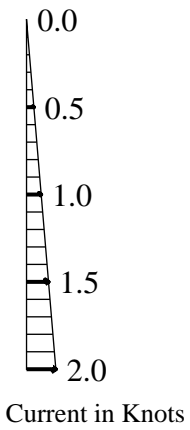


# ADCP Measured Tidal Currents-Outer Rangitoto Channel

## HW -06:00

After High Tide at Auckland

50m grid



ADCP measured tidal currents for vessel simulator, surveyed 2014 (inner harbour)+2019 (Rangitoto channel)

Spring tide of 3.0 meter range

Measurements, Ports of Auckland Ltd, Analysis, Ross Vennell, Ocean Currents Ltd,rvennell@xtra.co.nz 18-Oct-2020

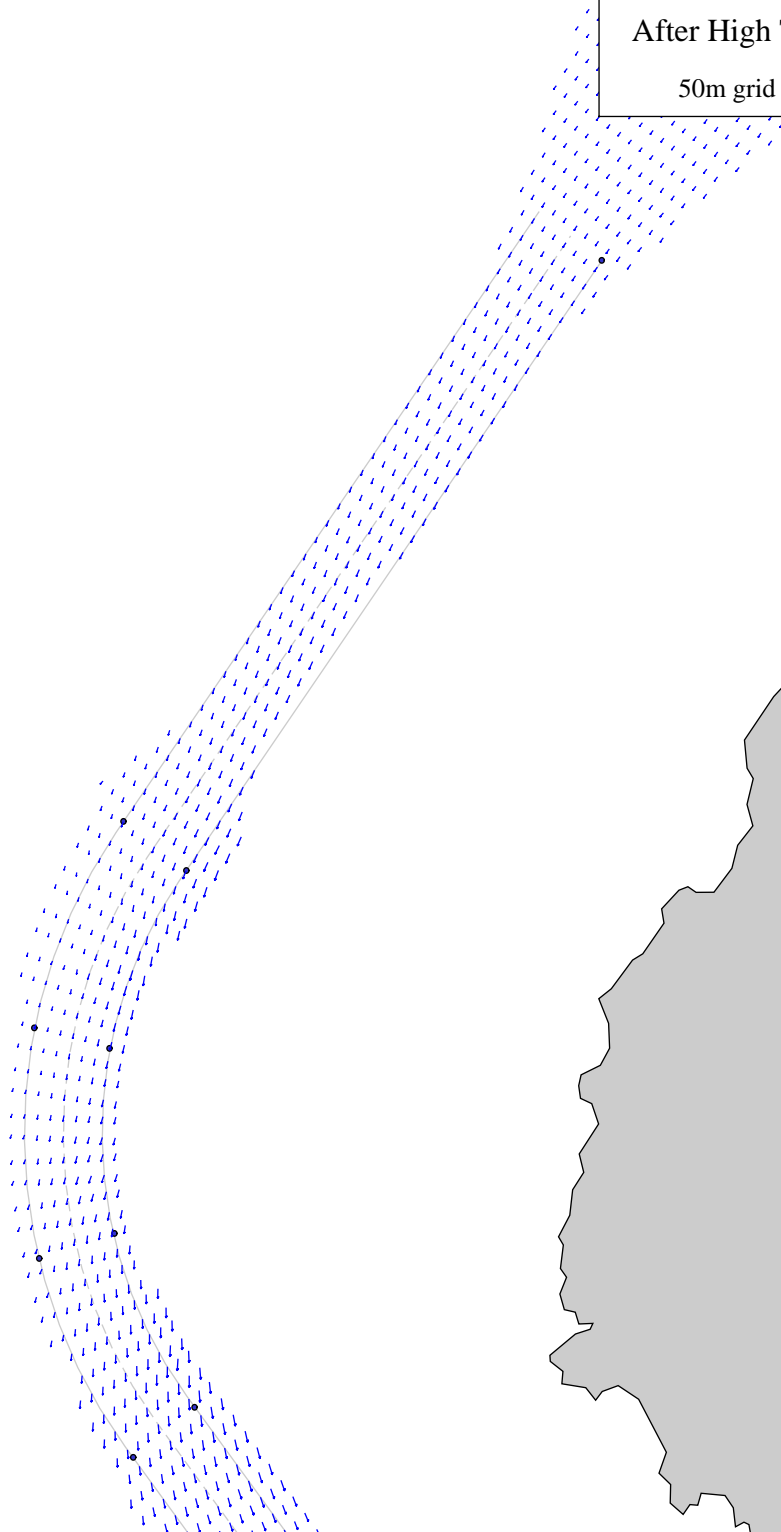
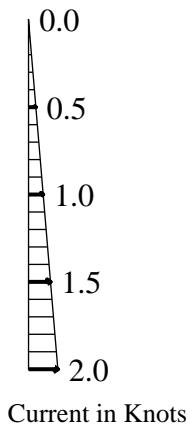
These tidal predictions should not be relied upon for navigation. Ocean Currents Ltd accepts no liability for any direct, indirect, consequential or incidental damages that result from any errors in the predictions or supplied information, whether due to Ocean Currents Ltd or a third party, or that arise from the use, or misuse, of the predictions or other any supplied information

# ADCP Measured Tidal Currents-Outer Rangitoto Channel

## HW -05:30

After High Tide at Auckland

50m grid



ADCP measured tidal currents for vessel simulator, surveyed 2014 (inner harbour)+2019 (Rangitoto channel)

Spring tide of 3.0 meter range

Measurements, Ports of Auckland Ltd, Analysis, Ross Vennell, Ocean Currents Ltd,rvennell@xtra.co.nz 18-Oct-2020

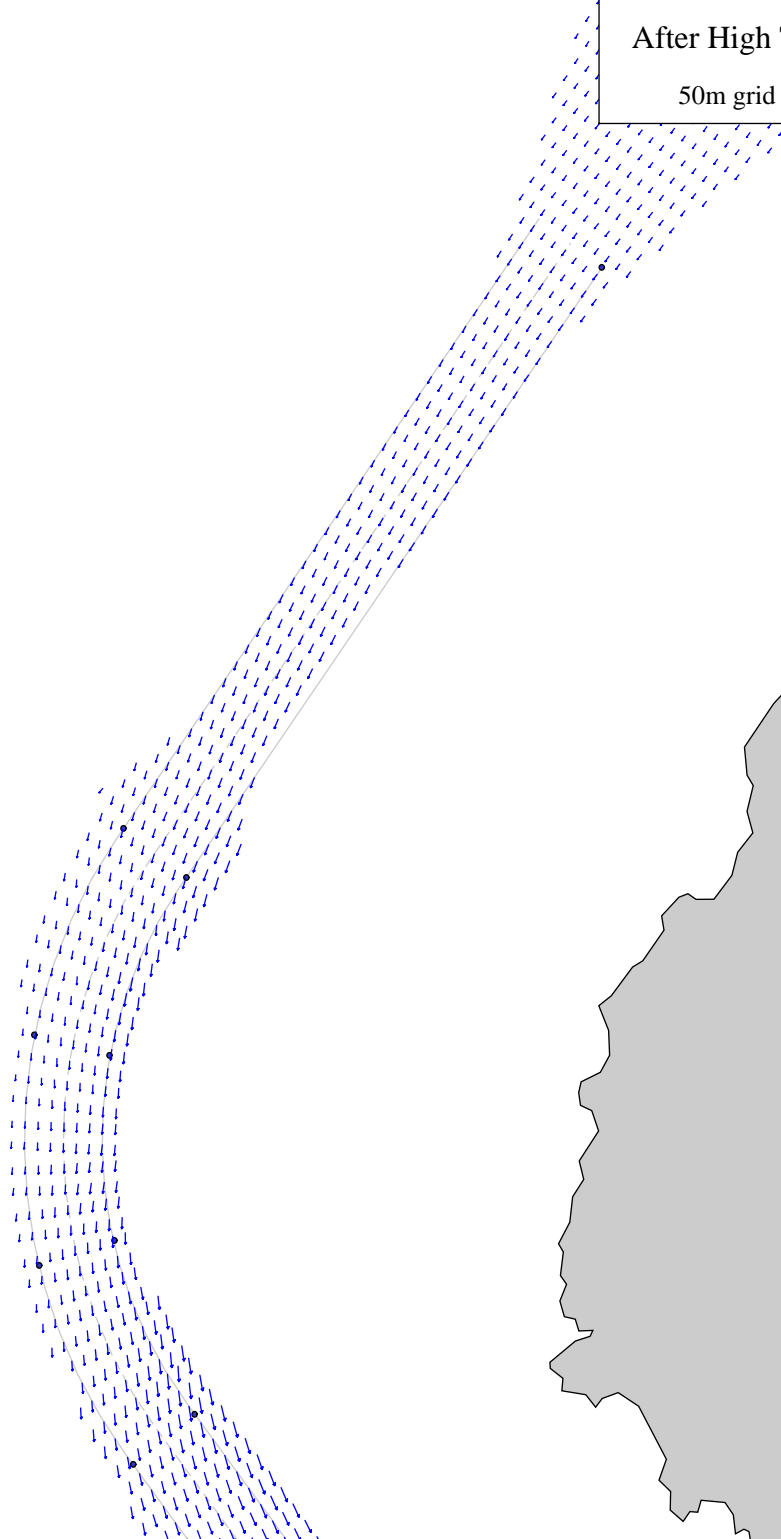
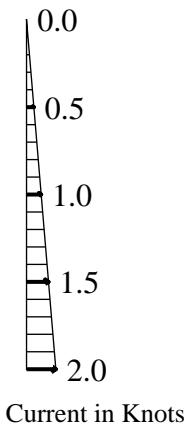
These tidal predictions should not be relied upon for navigation. Ocean Currents Ltd accepts no liability for any direct, indirect, consequential or incidental damages that result from any errors in the predictions or supplied information, whether due to Ocean Currents Ltd or a third party, or that arise from the use, or misuse, of the predictions or other any supplied information

# ADCP Measured Tidal Currents-Outer Rangitoto Channel

## HW -05:00

After High Tide at Auckland

50m grid



ADCP measured tidal currents for vessel simulator, surveyed 2014 (inner harbour)+2019 (Rangitoto channel)

Spring tide of 3.0 meter range

Measurements, Ports of Auckland Ltd, Analysis, Ross Vennell, Ocean Currents Ltd,rvennell@xtra.co.nz 18-Oct-2020

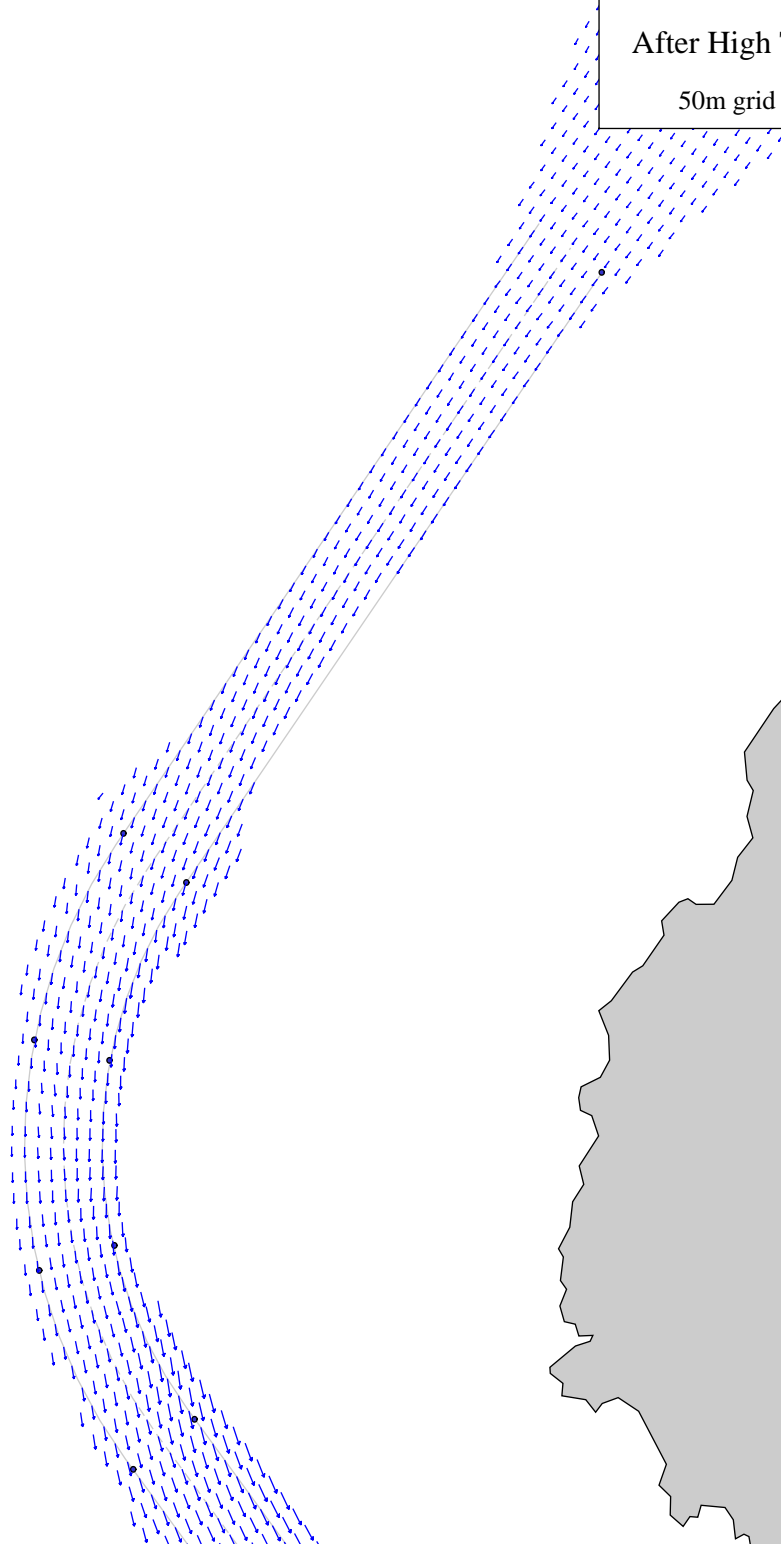
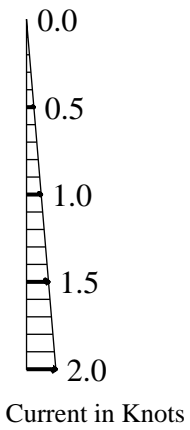
These tidal predictions should not be relied upon for navigation. Ocean Currents Ltd accepts no liability for any direct, indirect, consequential or incidental damages that result from any errors in the predictions or supplied information, whether due to Ocean Currents Ltd or a third party, or that arise from the use, or misuse, of the predictions or other any supplied information

# ADCP Measured Tidal Currents-Outer Rangitoto Channel

## HW -04:30

After High Tide at Auckland

50m grid



ADCP measured tidal currents for vessel simulator, surveyed 2014 (inner harbour)+2019 (Rangitoto channel)

Spring tide of 3.0 meter range

Measurements, Ports of Auckland Ltd, Analysis, Ross Vennell, Ocean Currents Ltd,rvennell@xtra.co.nz 18-Oct-2020

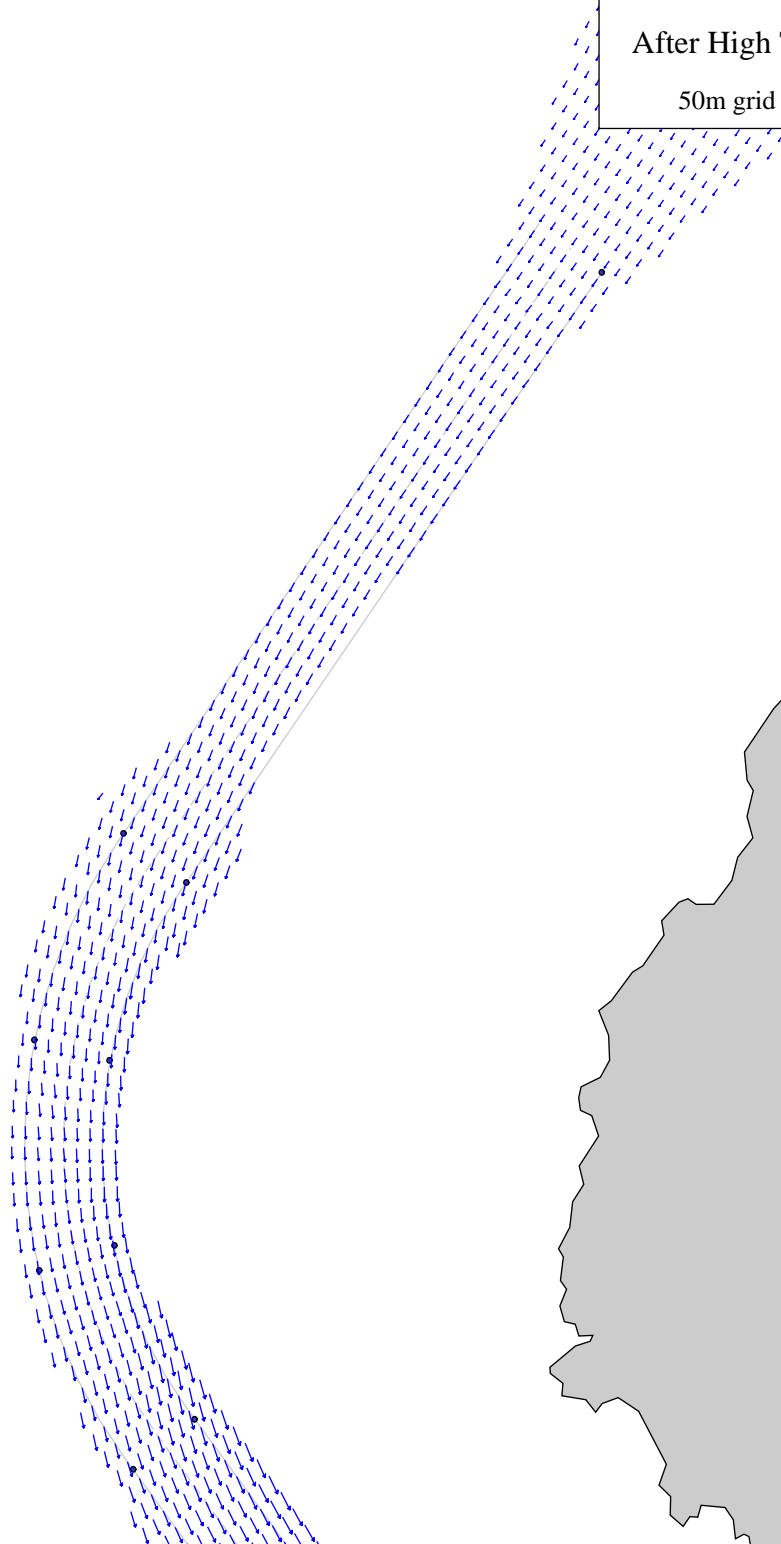
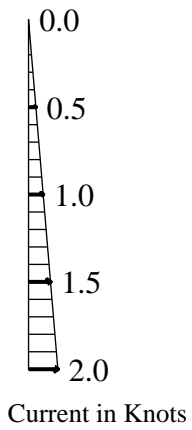
These tidal predictions should not be relied upon for navigation. Ocean Currents Ltd accepts no liability for any direct, indirect, consequential or incidental damages that result from any errors in the predictions or supplied information, whether due to Ocean Currents Ltd or a third party, or that arise from the use, or misuse, of the predictions or other any supplied information

# ADCP Measured Tidal Currents-Outer Rangitoto Channel

## HW -04:00

After High Tide at Auckland

50m grid



ADCP measured tidal currents for vessel simulator, surveyed 2014 (inner harbour)+2019 (Rangitoto channel)

Spring tide of 3.0 meter range

Measurements, Ports of Auckland Ltd, Analysis, Ross Vennell, Ocean Currents Ltd,rvennell@xtra.co.nz 18-Oct-2020

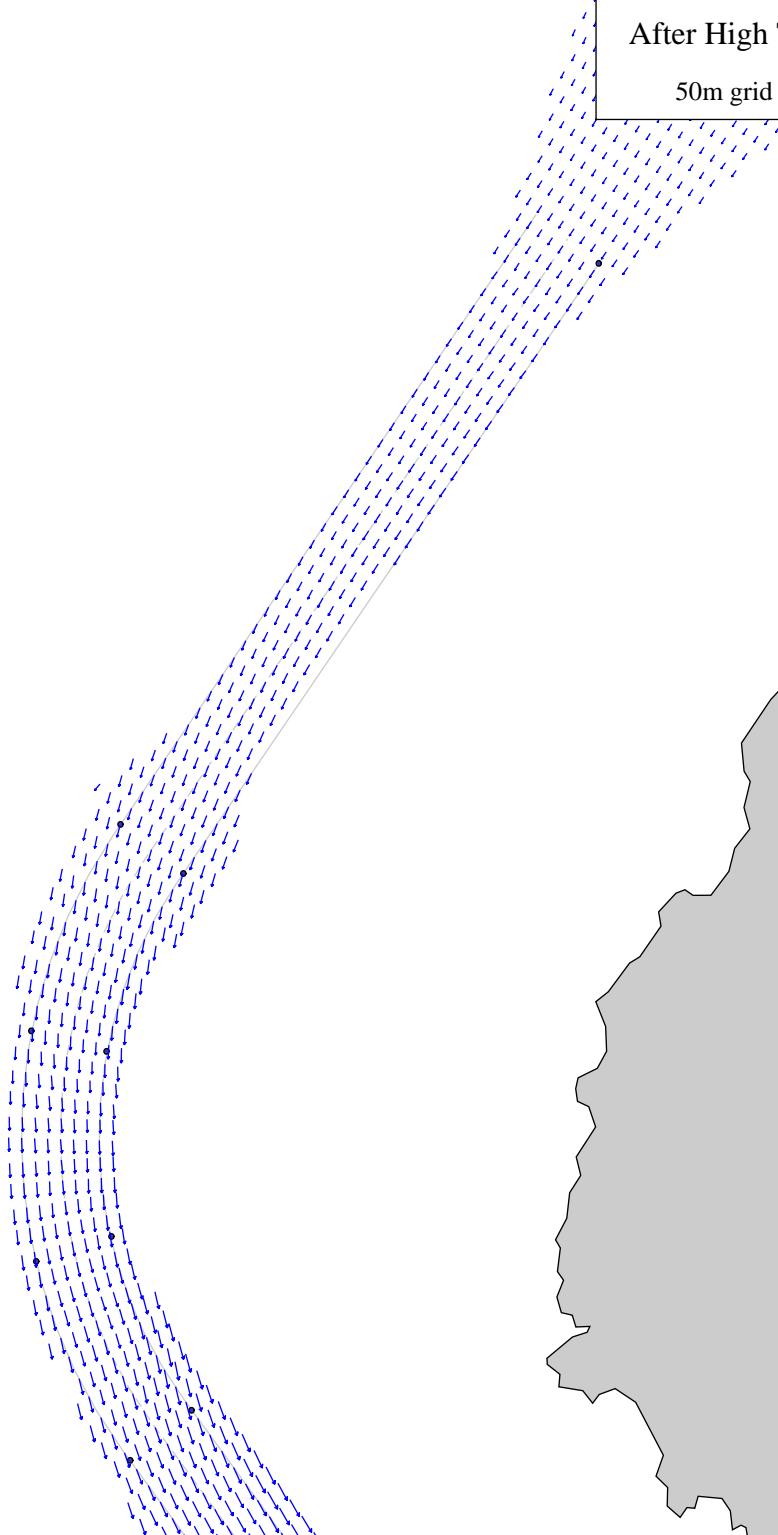
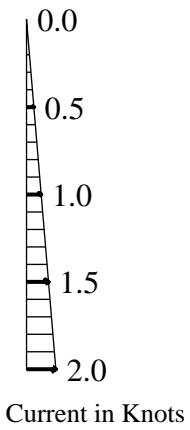
These tidal predictions should not be relied upon for navigation. Ocean Currents Ltd accepts no liability for any direct, indirect, consequential or incidental damages that result from any errors in the predictions or supplied information, whether due to Ocean Currents Ltd or a third party, or that arise from the use, or misuse, of the predictions or other any supplied information

# ADCP Measured Tidal Currents-Outer Rangitoto Channel

## HW -03:30

After High Tide at Auckland

50m grid



ADCP measured tidal currents for vessel simulator, surveyed 2014 (inner harbour)+2019 (Rangitoto channel)

Spring tide of 3.0 meter range

Measurements, Ports of Auckland Ltd, Analysis, Ross Vennell, Ocean Currents Ltd,rvennell@xtra.co.nz 18-Oct-2020

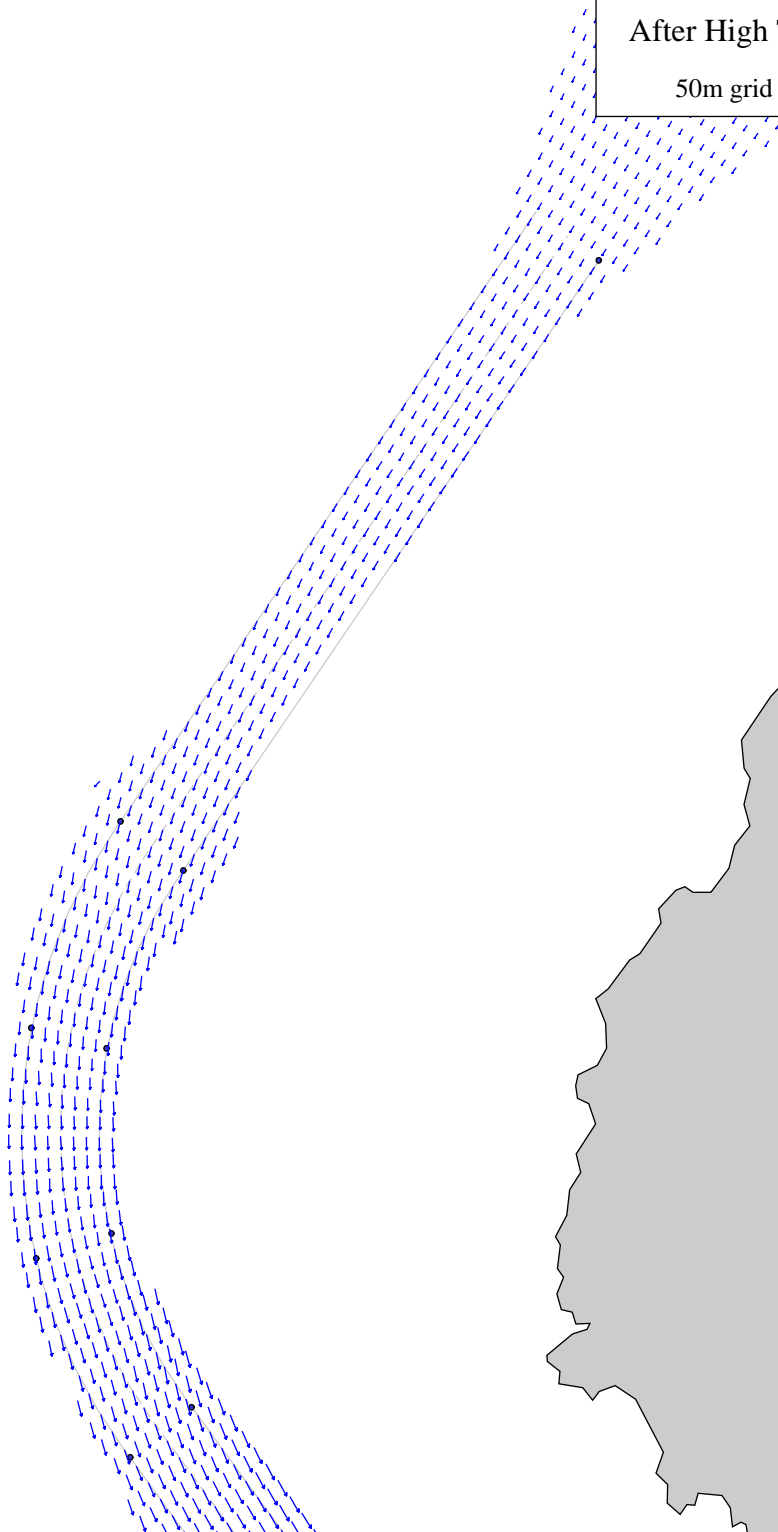
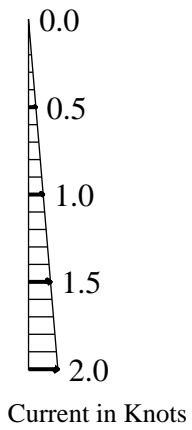
These tidal predictions should not be relied upon for navigation. Ocean Currents Ltd accepts no liability for any direct, indirect, consequential or incidental damages that result from any errors in the predictions or supplied information, whether due to Ocean Currents Ltd or a third party, or that arise from the use, or misuse, of the predictions or other any supplied information

# ADCP Measured Tidal Currents-Outer Rangitoto Channel

## HW -03:00

After High Tide at Auckland

50m grid



ADCP measured tidal currents for vessel simulator, surveyed 2014 (inner harbour)+2019 (Rangitoto channel)

Spring tide of 3.0 meter range

Measurements, Ports of Auckland Ltd, Analysis, Ross Vennell, Ocean Currents Ltd,rvennell@xtra.co.nz 18-Oct-2020

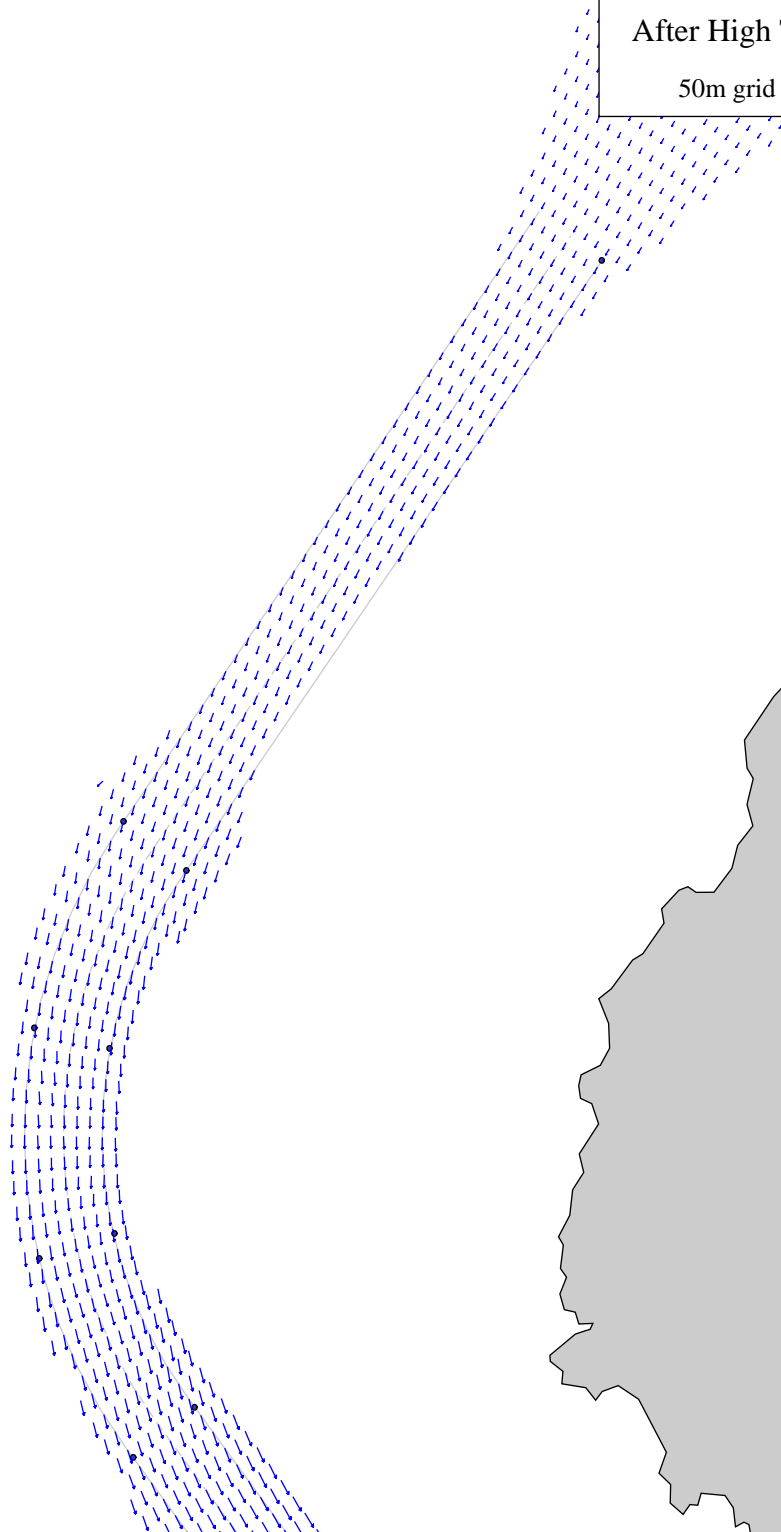
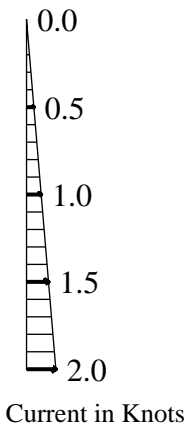
These tidal predictions should not be relied upon for navigation. Ocean Currents Ltd accepts no liability for any direct, indirect, consequential or incidental damages that result from any errors in the predictions or supplied information, whether due to Ocean Currents Ltd or a third party, or that arise from the use, or misuse, of the predictions or other any supplied information

# ADCP Measured Tidal Currents-Outer Rangitoto Channel

## HW -02:30

After High Tide at Auckland

50m grid



ADCP measured tidal currents for vessel simulator, surveyed 2014 (inner harbour)+2019 (Rangitoto channel)

Spring tide of 3.0 meter range

Measurements, Ports of Auckland Ltd, Analysis, Ross Vennell, Ocean Currents Ltd,rvennell@xtra.co.nz 18-Oct-2020

These tidal predictions should not be relied upon for navigation. Ocean Currents Ltd accepts no liability for any direct, indirect, consequential or incidental damages that result from any errors in the predictions or supplied information, whether due to Ocean Currents Ltd or a third party, or that arise from the use, or misuse, of the predictions or other any supplied information

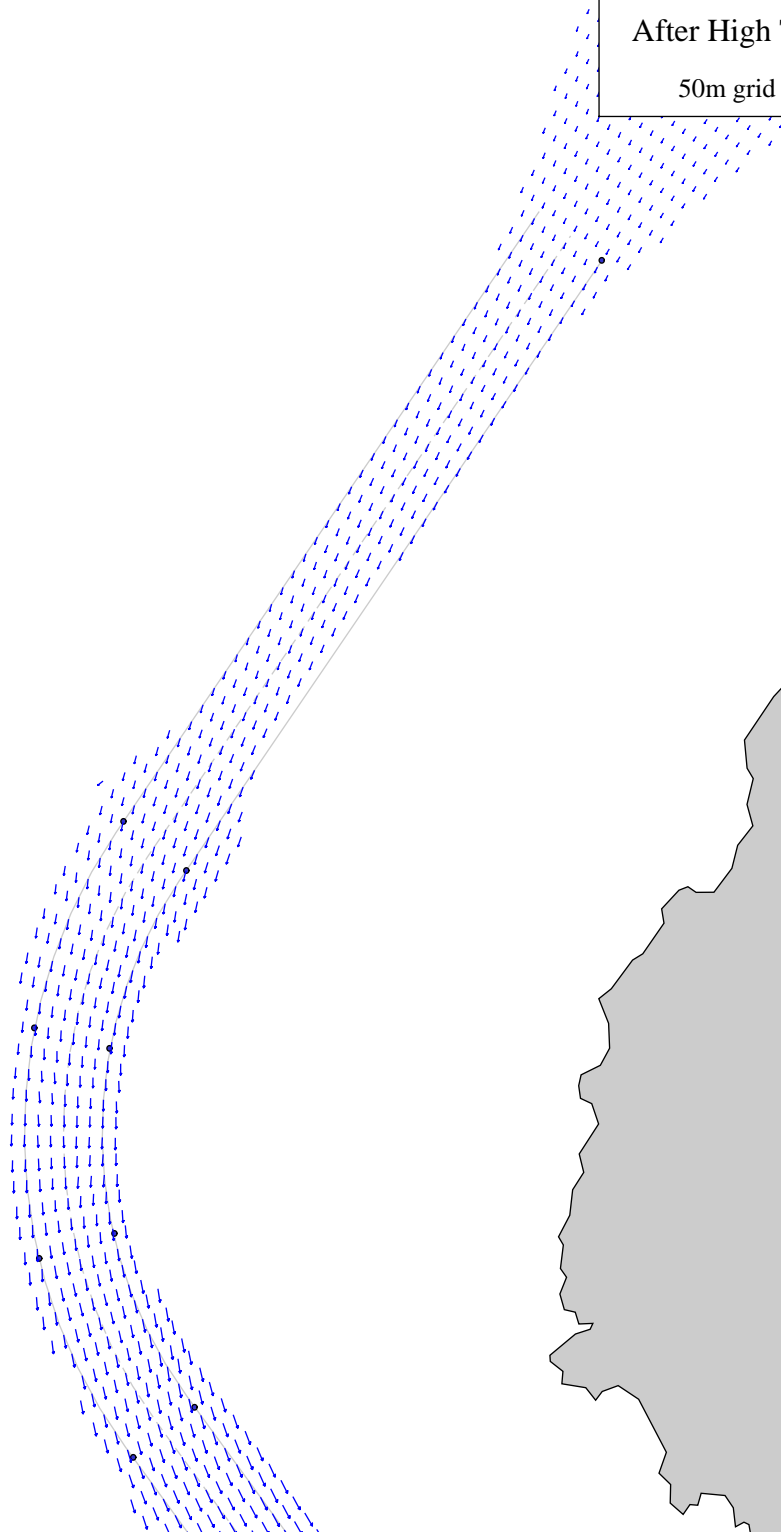
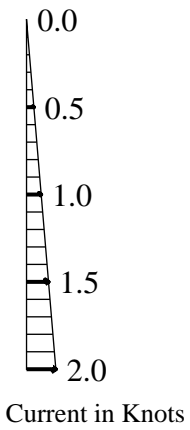


# ADCP Measured Tidal Currents-Outer Rangitoto Channel

## HW -02:00

After High Tide at Auckland

50m grid



ADCP measured tidal currents for vessel simulator, surveyed 2014 (inner harbour)+2019 (Rangitoto channel)

Spring tide of 3.0 meter range

Measurements, Ports of Auckland Ltd, Analysis, Ross Vennell, Ocean Currents Ltd,rvennell@xtra.co.nz 18-Oct-2020

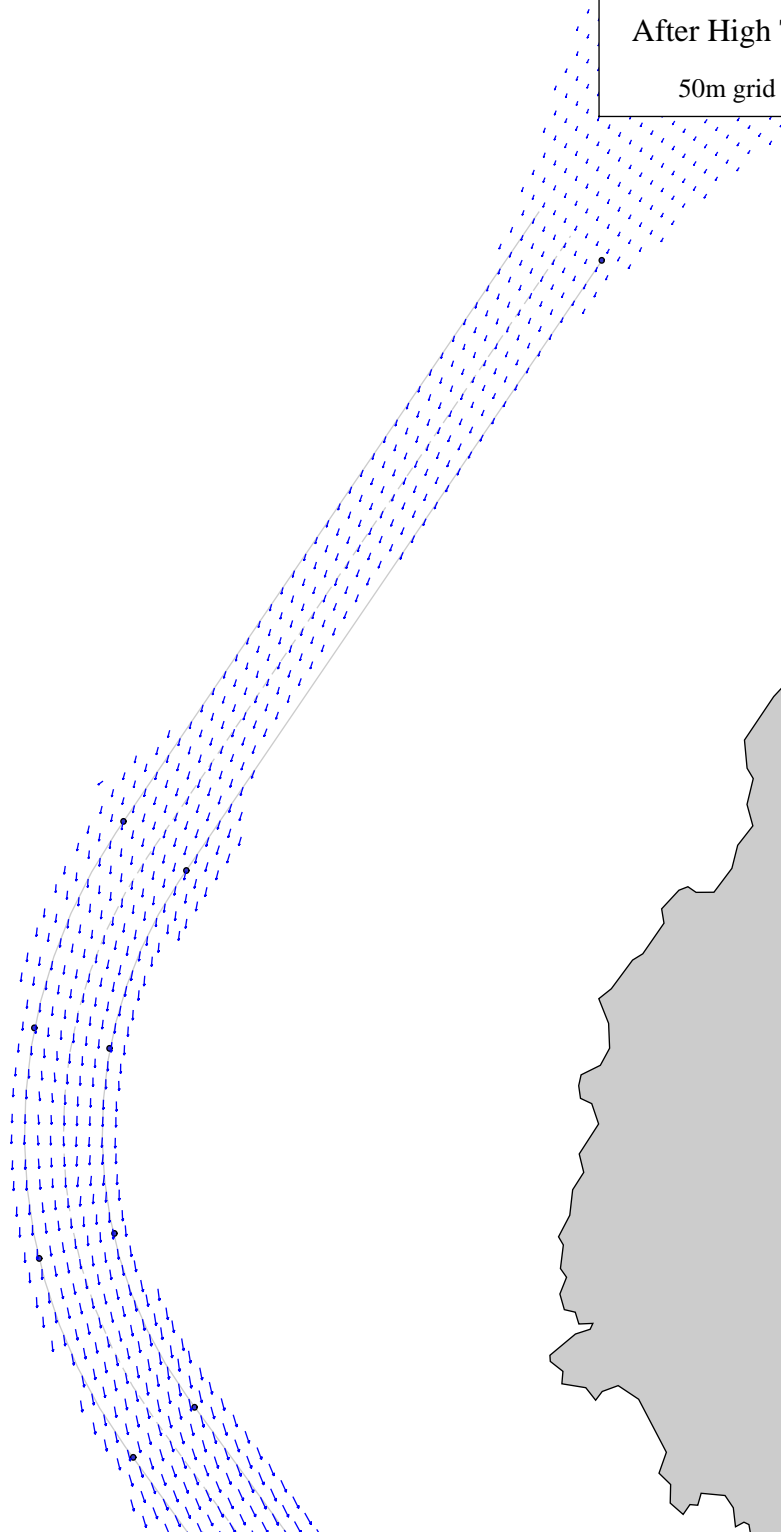
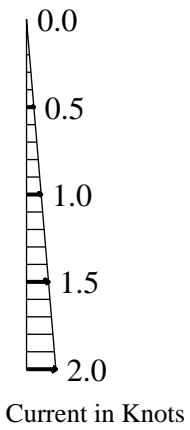
These tidal predictions should not be relied upon for navigation. Ocean Currents Ltd accepts no liability for any direct, indirect, consequential or incidental damages that result from any errors in the predictions or supplied information, whether due to Ocean Currents Ltd or a third party, or that arise from the use, or misuse, of the predictions or other any supplied information

# ADCP Measured Tidal Currents-Outer Rangitoto Channel

## HW -01:30

After High Tide at Auckland

50m grid



ADCP measured tidal currents for vessel simulator, surveyed 2014 (inner harbour)+2019 (Rangitoto channel)

Spring tide of 3.0 meter range

Measurements, Ports of Auckland Ltd, Analysis, Ross Vennell, Ocean Currents Ltd,rvennell@xtra.co.nz 18-Oct-2020

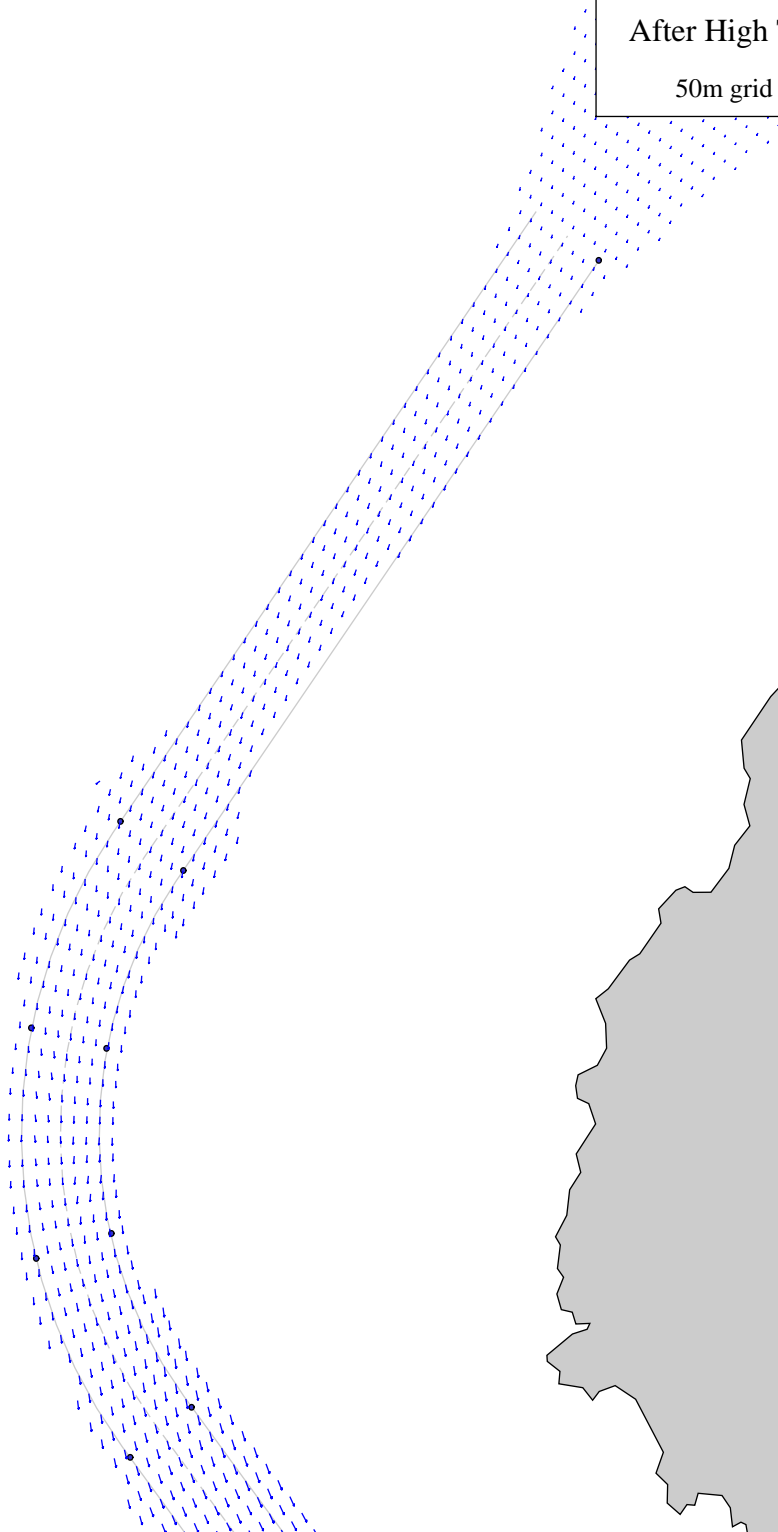
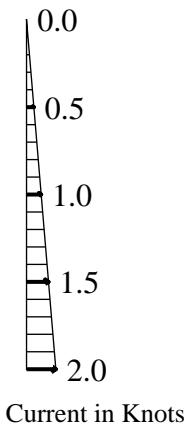
These tidal predictions should not be relied upon for navigation. Ocean Currents Ltd accepts no liability for any direct, indirect, consequential or incidental damages that result from any errors in the predictions or supplied information, whether due to Ocean Currents Ltd or a third party, or that arise from the use, or misuse, of the predictions or other any supplied information

# ADCP Measured Tidal Currents-Outer Rangitoto Channel

## HW -01:00

After High Tide at Auckland

50m grid



ADCP measured tidal currents for vessel simulator, surveyed 2014 (inner harbour)+2019 (Rangitoto channel)

Spring tide of 3.0 meter range

Measurements, Ports of Auckland Ltd, Analysis, Ross Vennell, Ocean Currents Ltd,rvennell@xtra.co.nz 18-Oct-2020

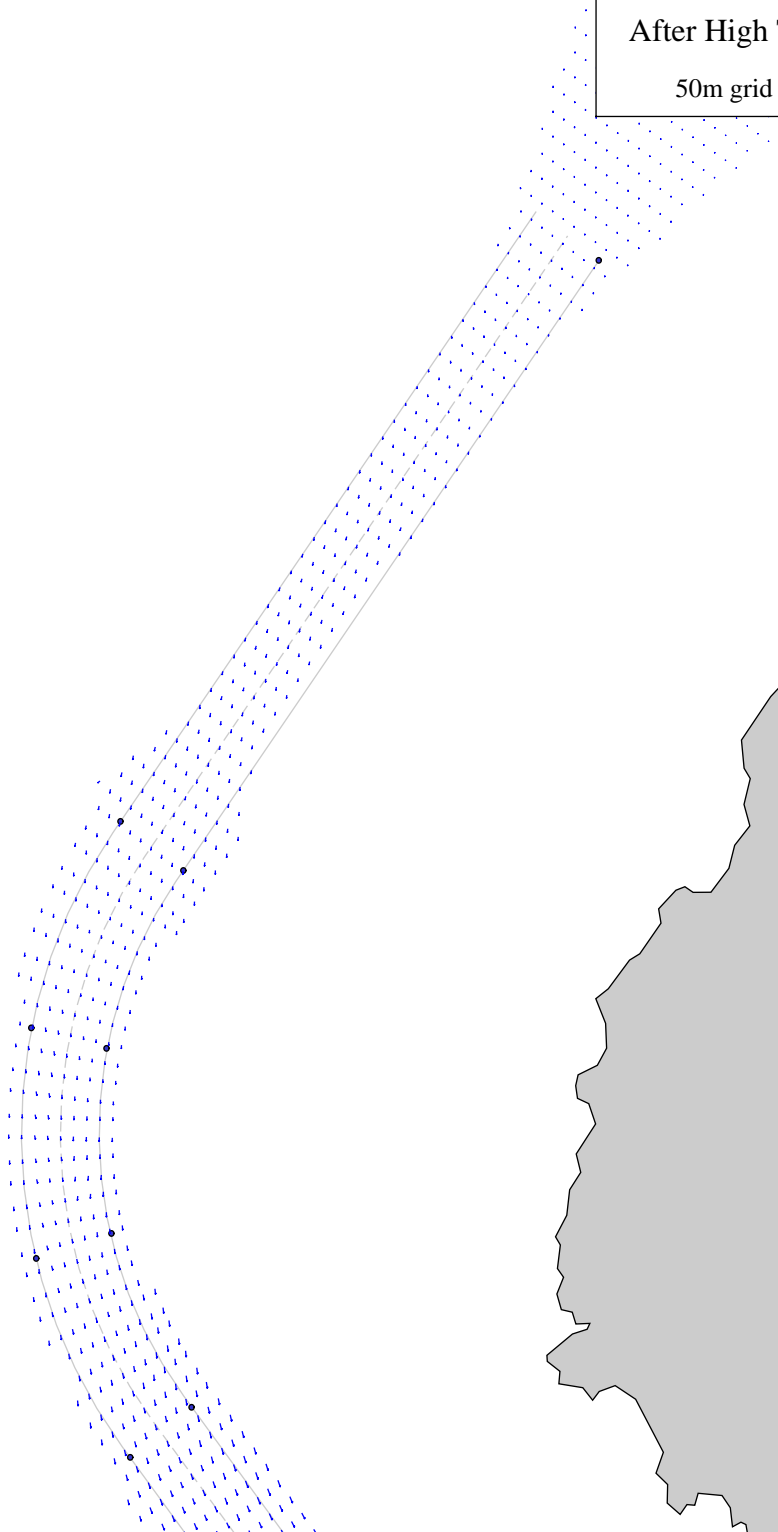
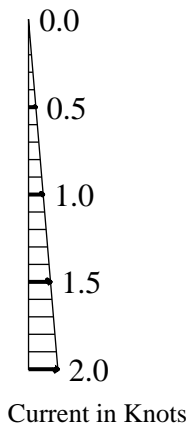
These tidal predictions should not be relied upon for navigation. Ocean Currents Ltd accepts no liability for any direct, indirect, consequential or incidental damages that result from any errors in the predictions or supplied information, whether due to Ocean Currents Ltd or a third party, or that arise from the use, or misuse, of the predictions or other any supplied information

# ADCP Measured Tidal Currents-Outer Rangitoto Channel

## HW -00:30

After High Tide at Auckland

50m grid



ADCP measured tidal currents for vessel simulator, surveyed 2014 (inner harbour)+2019 (Rangitoto channel)

Spring tide of 3.0 meter range

Measurements, Ports of Auckland Ltd, Analysis, Ross Vennell, Ocean Currents Ltd,rvennell@xtra.co.nz 18-Oct-2020

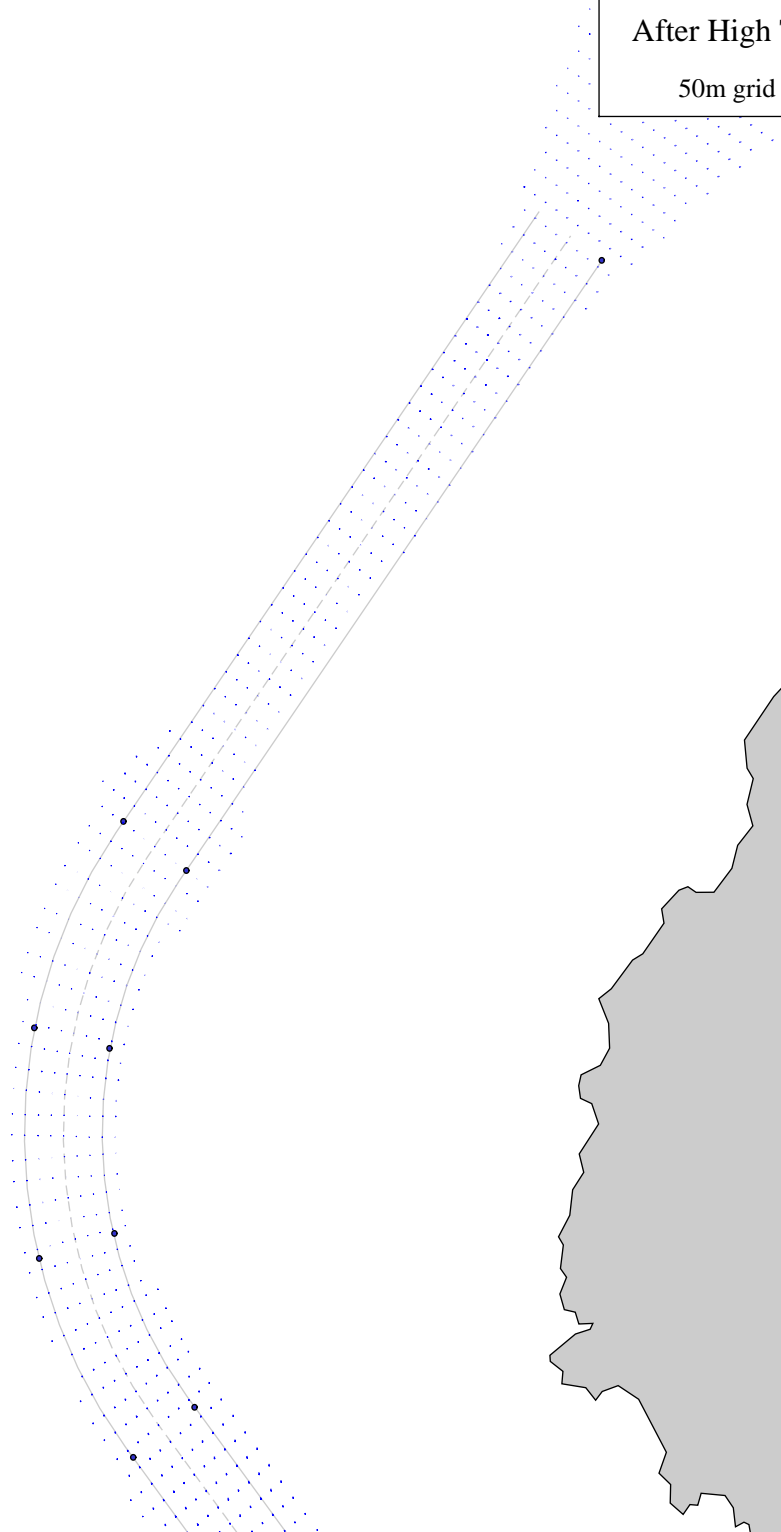
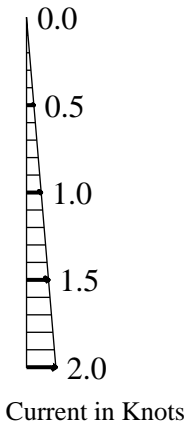
These tidal predictions should not be relied upon for navigation. Ocean Currents Ltd accepts no liability for any direct, indirect, consequential or incidental damages that result from any errors in the predictions or supplied information, whether due to Ocean Currents Ltd or a third party, or that arise from the use, or misuse, of the predictions or other any supplied information

# ADCP Measured Tidal Currents-Outer Rangitoto Channel

**HW +00:00**

After High Tide at Auckland

50m grid



ADCP measured tidal currents for vessel simulator, surveyed 2014 (inner harbour)+2019 (Rangitoto channel)

Spring tide of 3.0 meter range

Measurements, Ports of Auckland Ltd, Analysis, Ross Vennell, Ocean Currents Ltd,rvennell@xtra.co.nz 18-Oct-2020

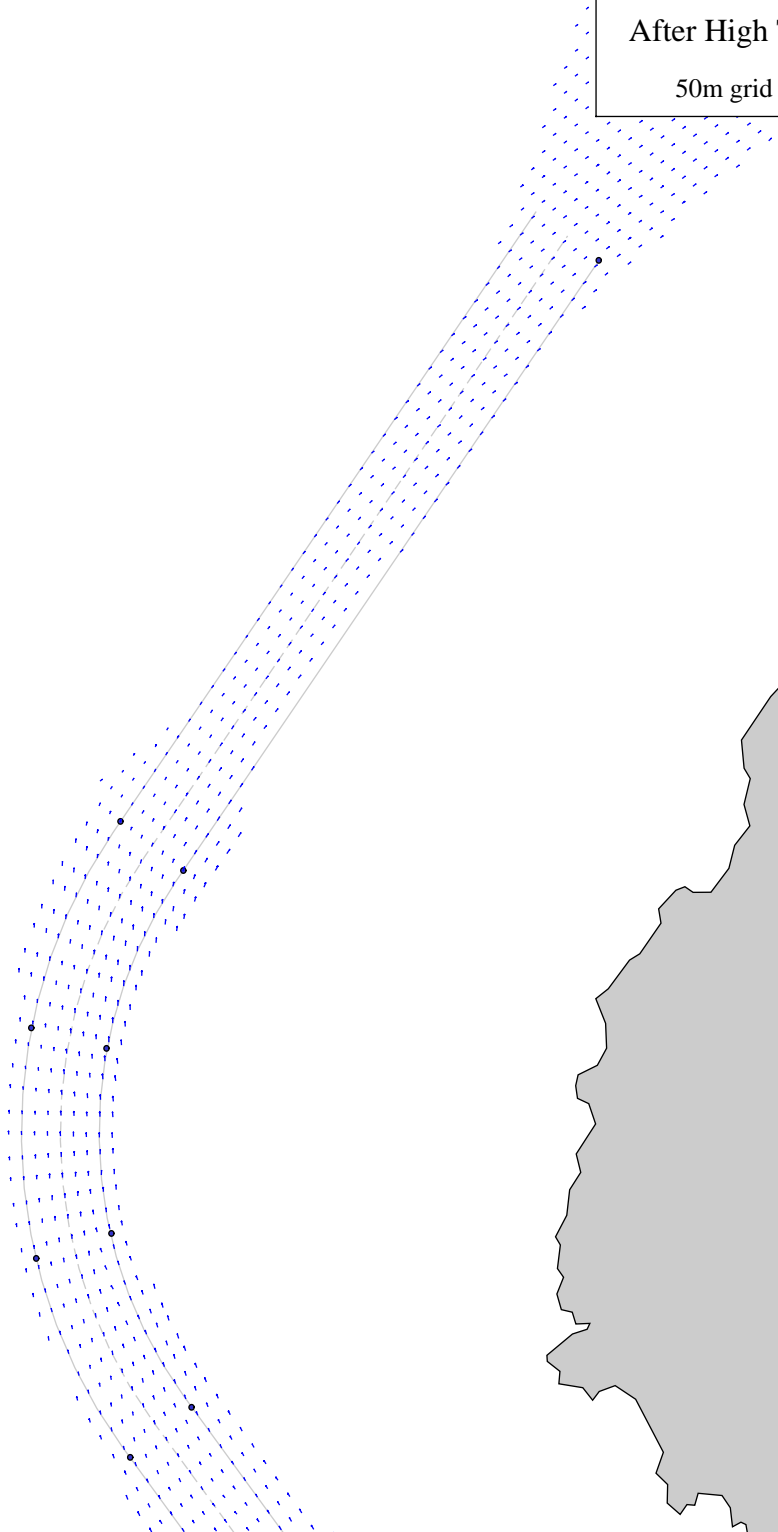
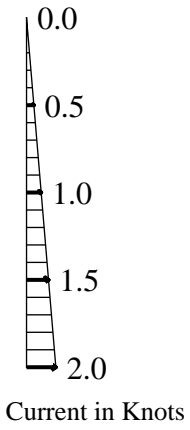
These tidal predictions should not be relied upon for navigation. Ocean Currents Ltd accepts no liability for any direct, indirect, consequential or incidental damages that result from any errors in the predictions or supplied information, whether due to Ocean Currents Ltd or a third party, or that arise from the use, or misuse, of the predictions or other any supplied information

# ADCP Measured Tidal Currents-Outer Rangitoto Channel

## HW +00:30

After High Tide at Auckland

50m grid



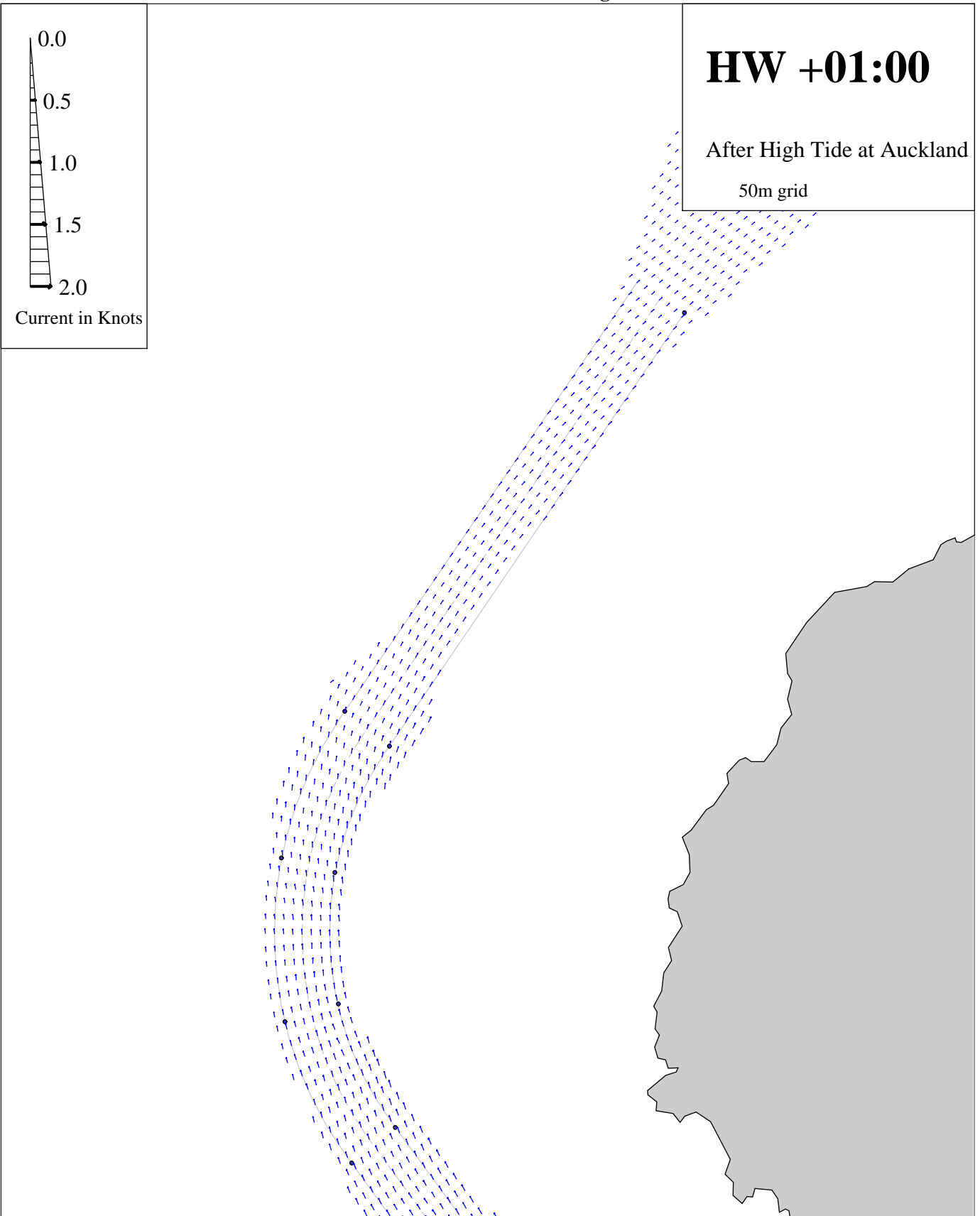
ADCP measured tidal currents for vessel simulator, surveyed 2014 (inner harbour)+2019 (Rangitoto channel)

Spring tide of 3.0 meter range

Measurements, Ports of Auckland Ltd, Analysis, Ross Vennell, Ocean Currents Ltd,rvennell@xtra.co.nz 18-Oct-2020

These tidal predictions should not be relied upon for navigation. Ocean Currents Ltd accepts no liability for any direct, indirect, consequential or incidental damages that result from any errors in the predictions or supplied information, whether due to Ocean Currents Ltd or a third party, or that arise from the use, or misuse, of the predictions or other any supplied information

# ADCP Measured Tidal Currents-Outer Rangitoto Channel



ADCP measured tidal currents for vessel simulator, surveyed 2014 (inner harbour)+2019 (Rangitoto channel)

Spring tide of 3.0 meter range

Measurements, Ports of Auckland Ltd, Analysis, Ross Vennell, Ocean Currents Ltd,rvennell@xtra.co.nz 18-Oct-2020

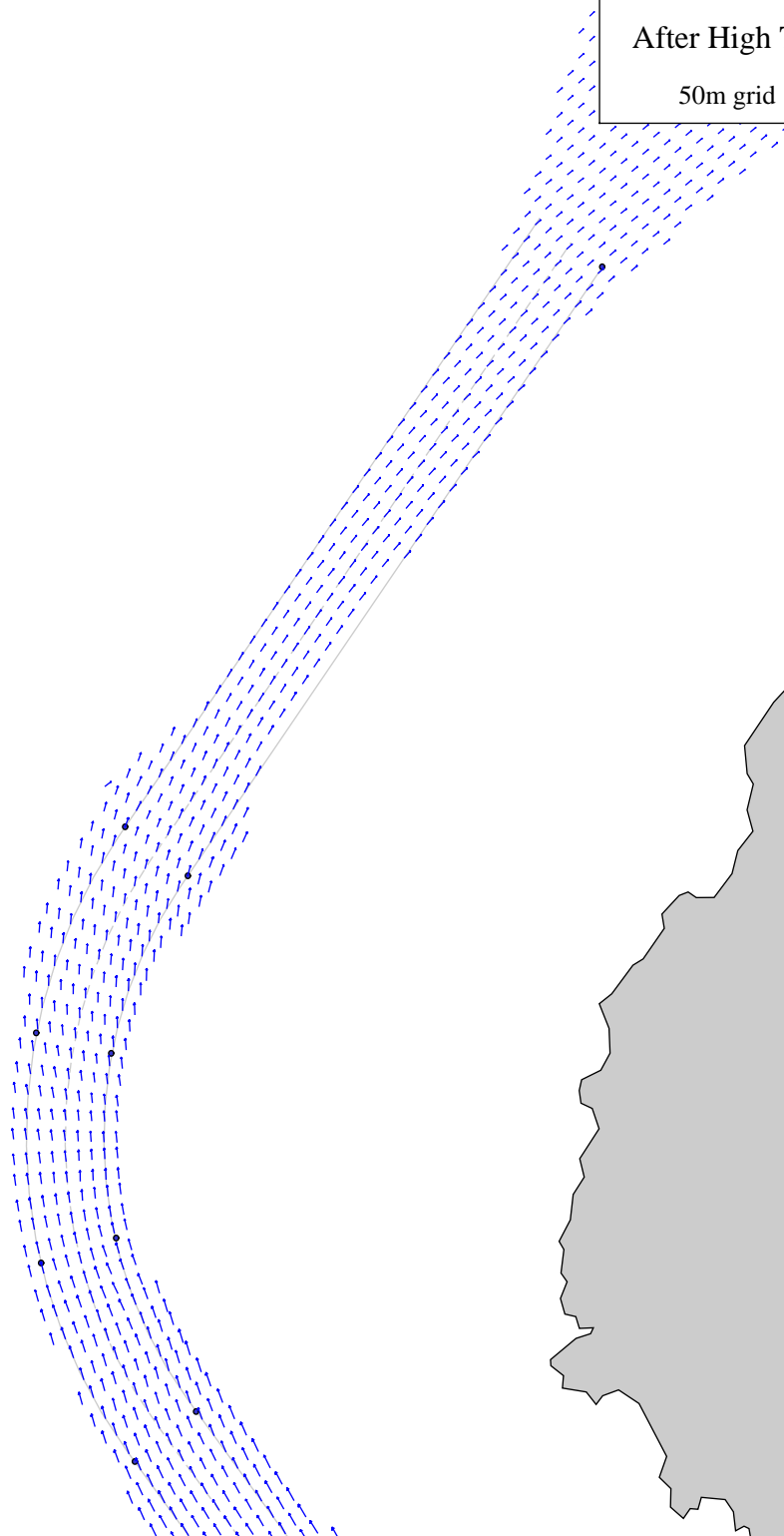
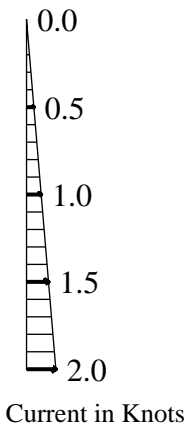
These tidal predictions should not be relied upon for navigation. Ocean Currents Ltd accepts no liability for any direct, indirect, consequential or incidental damages that result from any errors in the predictions or supplied information, whether due to Ocean Currents Ltd or a third party, or that arise from the use, or misuse, of the predictions or other any supplied information

# ADCP Measured Tidal Currents-Outer Rangitoto Channel

## HW +01:30

After High Tide at Auckland

50m grid



ADCP measured tidal currents for vessel simulator, surveyed 2014 (inner harbour)+2019 (Rangitoto channel)

Spring tide of 3.0 meter range

Measurements, Ports of Auckland Ltd, Analysis, Ross Vennell, Ocean Currents Ltd,rvennell@xtra.co.nz 18-Oct-2020

These tidal predictions should not be relied upon for navigation. Ocean Currents Ltd accepts no liability for any direct, indirect, consequential or incidental damages that result from any errors in the predictions or supplied information, whether due to Ocean Currents Ltd or a third party, or that arise from the use, or misuse, of the predictions or other any supplied information

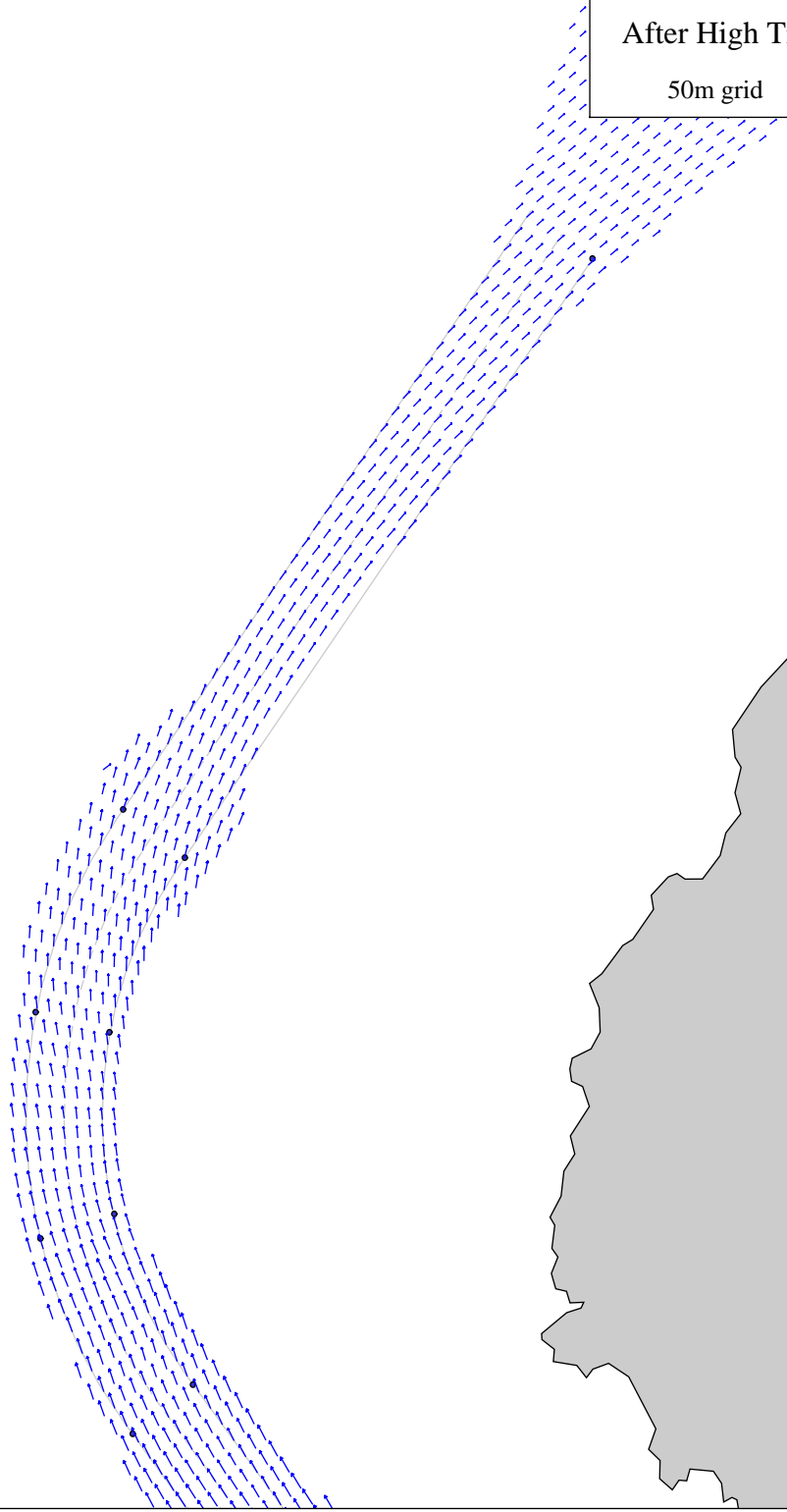
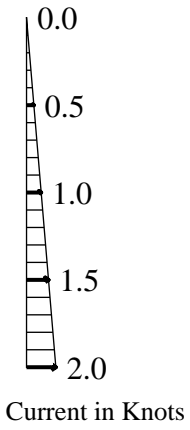


# ADCP Measured Tidal Currents-Outer Rangitoto Channel

**HW +02:00**

After High Tide at Auckland

50m grid



ADCP measured tidal currents for vessel simulator, surveyed 2014 (inner harbour)+2019 (Rangitoto channel)

Spring tide of 3.0 meter range

Measurements, Ports of Auckland Ltd, Analysis, Ross Vennell, Ocean Currents Ltd,rvennell@xtra.co.nz 18-Oct-2020

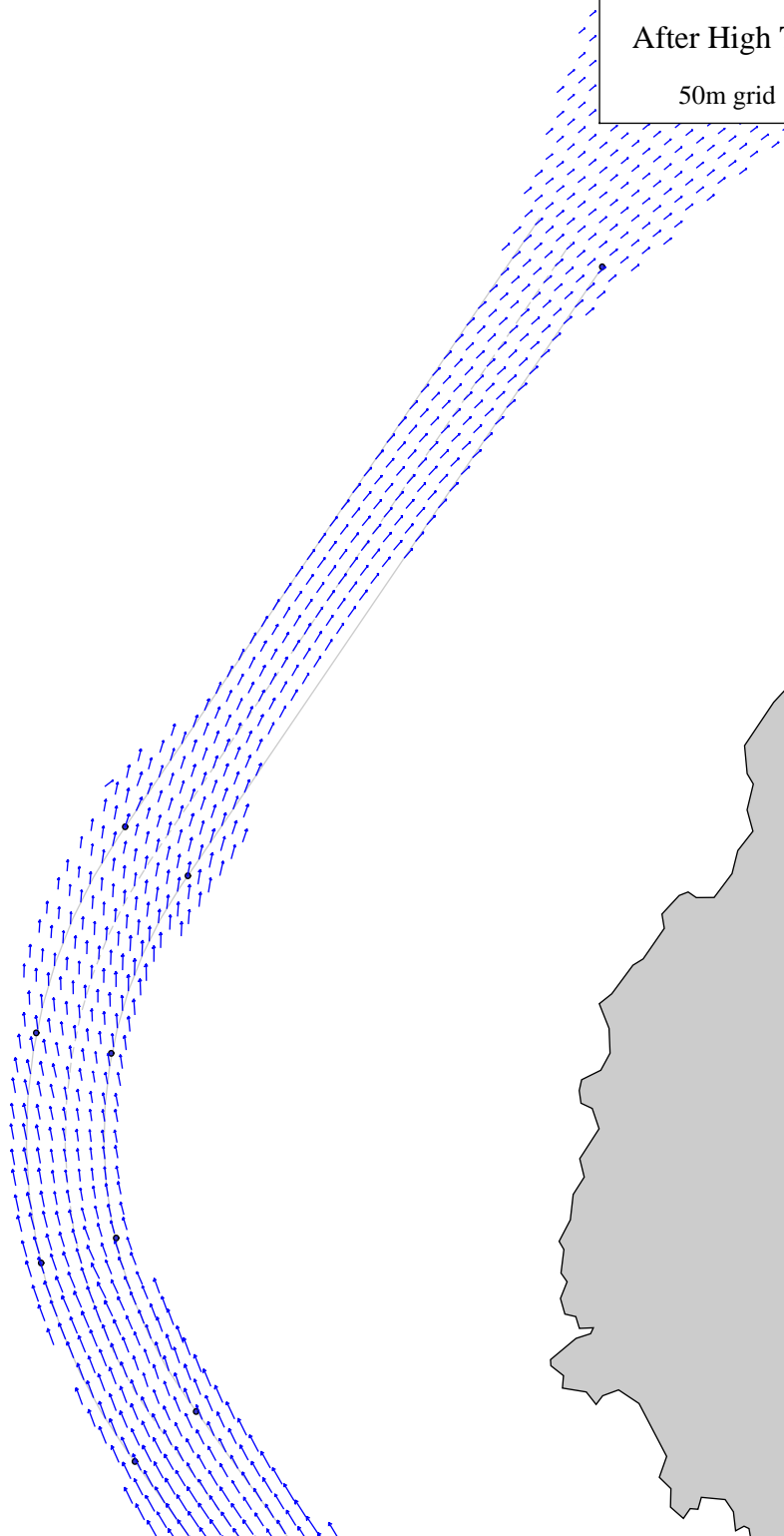
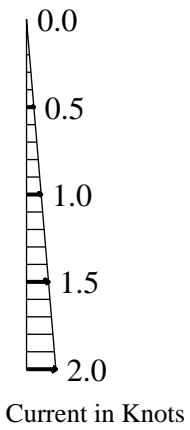
These tidal predictions should not be relied upon for navigation. Ocean Currents Ltd accepts no liability for any direct, indirect, consequential or incidental damages that result from any errors in the predictions or supplied information, whether due to Ocean Currents Ltd or a third party, or that arise from the use, or misuse, of the predictions or other any supplied information

# ADCP Measured Tidal Currents-Outer Rangitoto Channel

## HW +02:30

After High Tide at Auckland

50m grid



ADCP measured tidal currents for vessel simulator, surveyed 2014 (inner harbour)+2019 (Rangitoto channel)

Spring tide of 3.0 meter range

Measurements, Ports of Auckland Ltd, Analysis, Ross Vennell, Ocean Currents Ltd,rvennell@xtra.co.nz 18-Oct-2020

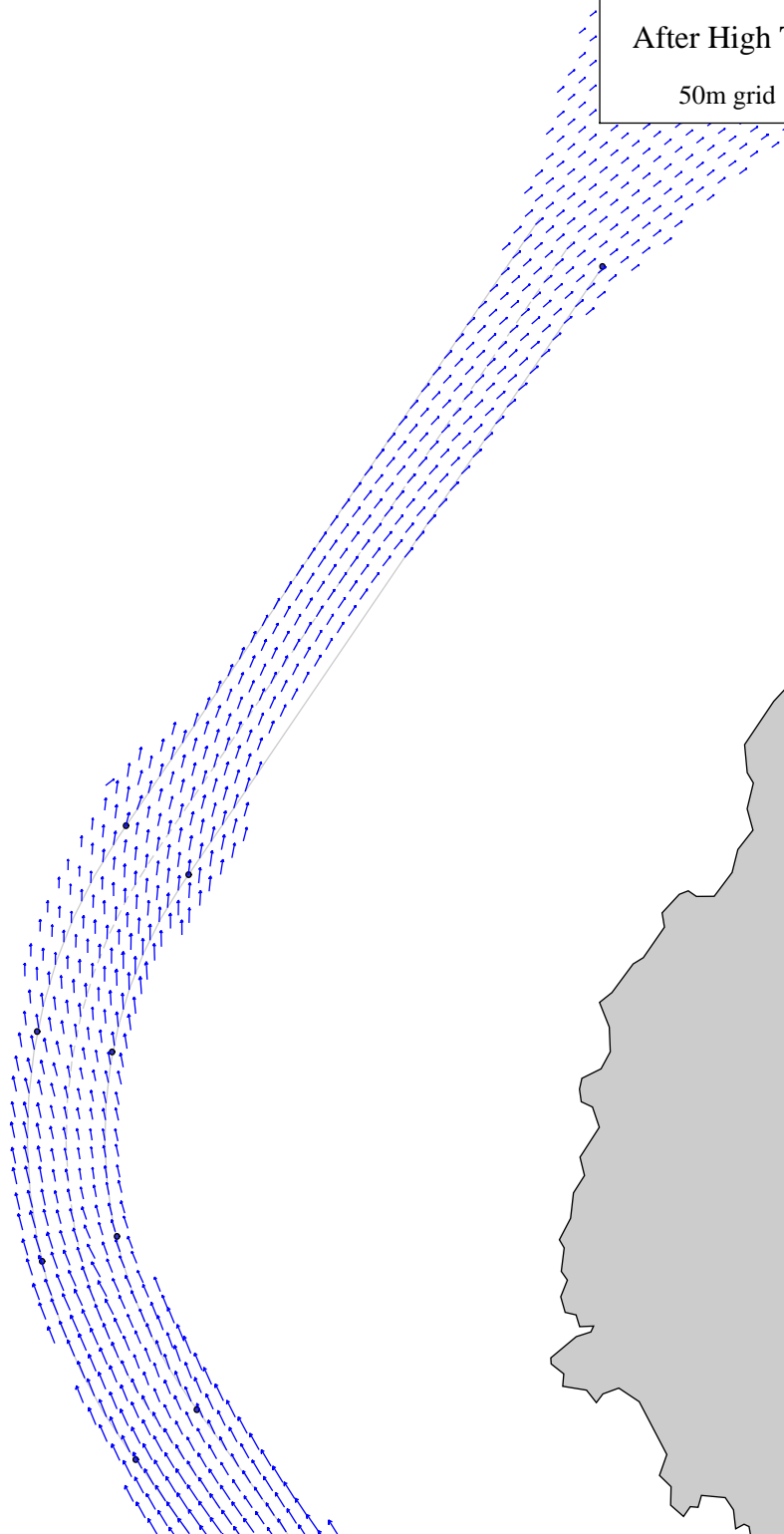
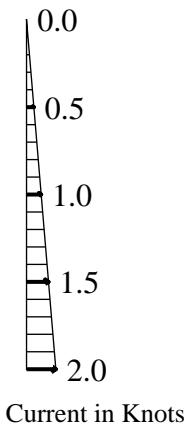
These tidal predictions should not be relied upon for navigation. Ocean Currents Ltd accepts no liability for any direct, indirect, consequential or incidental damages that result from any errors in the predictions or supplied information, whether due to Ocean Currents Ltd or a third party, or that arise from the use, or misuse, of the predictions or other any supplied information

# ADCP Measured Tidal Currents-Outer Rangitoto Channel

## HW +03:00

After High Tide at Auckland

50m grid



ADCP measured tidal currents for vessel simulator, surveyed 2014 (inner harbour)+2019 (Rangitoto channel)

Spring tide of 3.0 meter range

Measurements, Ports of Auckland Ltd, Analysis, Ross Vennell, Ocean Currents Ltd,rvennell@xtra.co.nz 18-Oct-2020

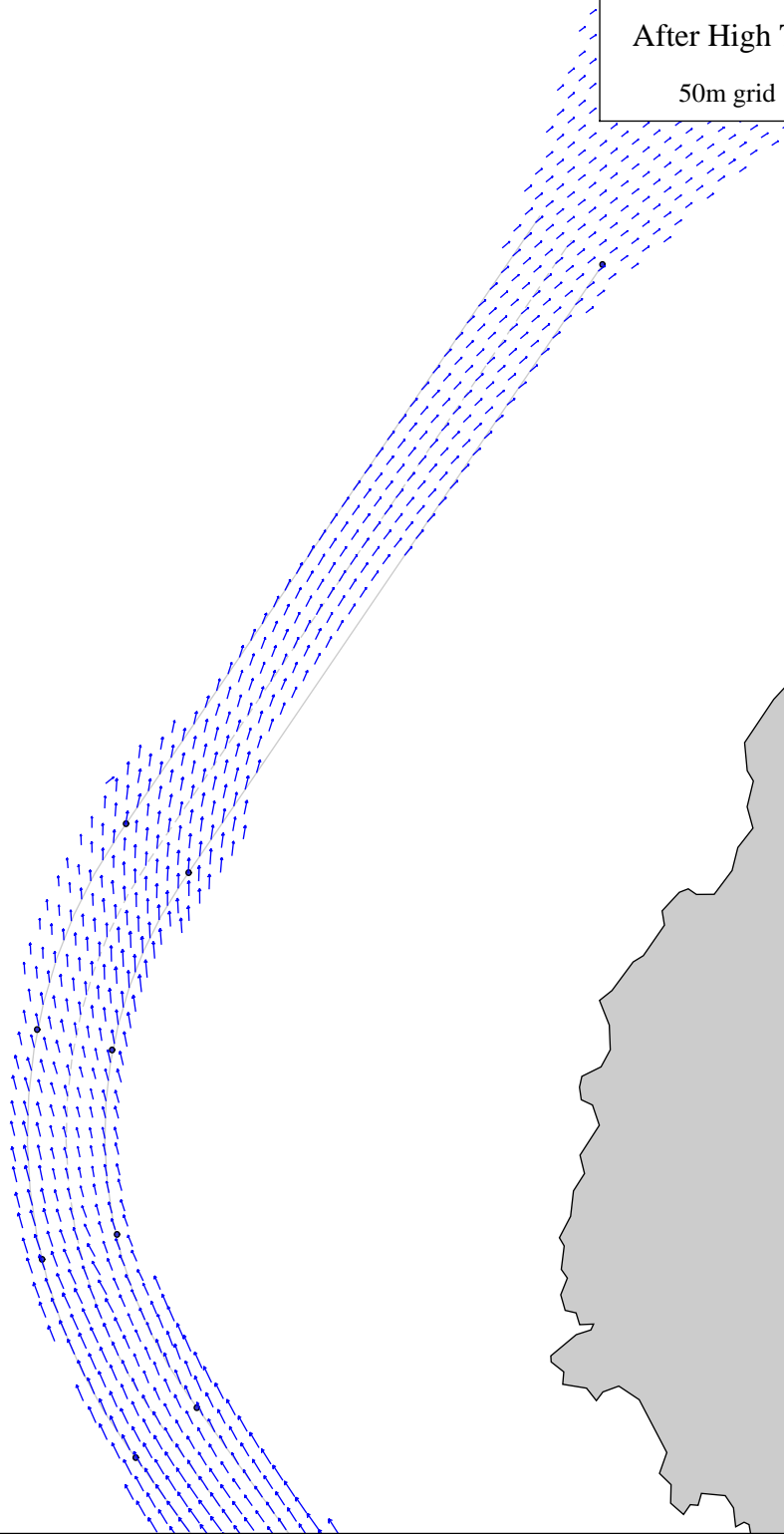
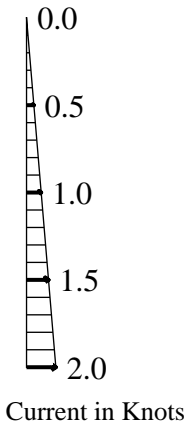
These tidal predictions should not be relied upon for navigation. Ocean Currents Ltd accepts no liability for any direct, indirect, consequential or incidental damages that result from any errors in the predictions or supplied information, whether due to Ocean Currents Ltd or a third party, or that arise from the use, or misuse, of the predictions or other any supplied information

# ADCP Measured Tidal Currents-Outer Rangitoto Channel

## HW +03:30

After High Tide at Auckland

50m grid



ADCP measured tidal currents for vessel simulator, surveyed 2014 (inner harbour)+2019 (Rangitoto channel)

Spring tide of 3.0 meter range

Measurements, Ports of Auckland Ltd, Analysis, Ross Vennell, Ocean Currents Ltd,rvennell@xtra.co.nz 18-Oct-2020

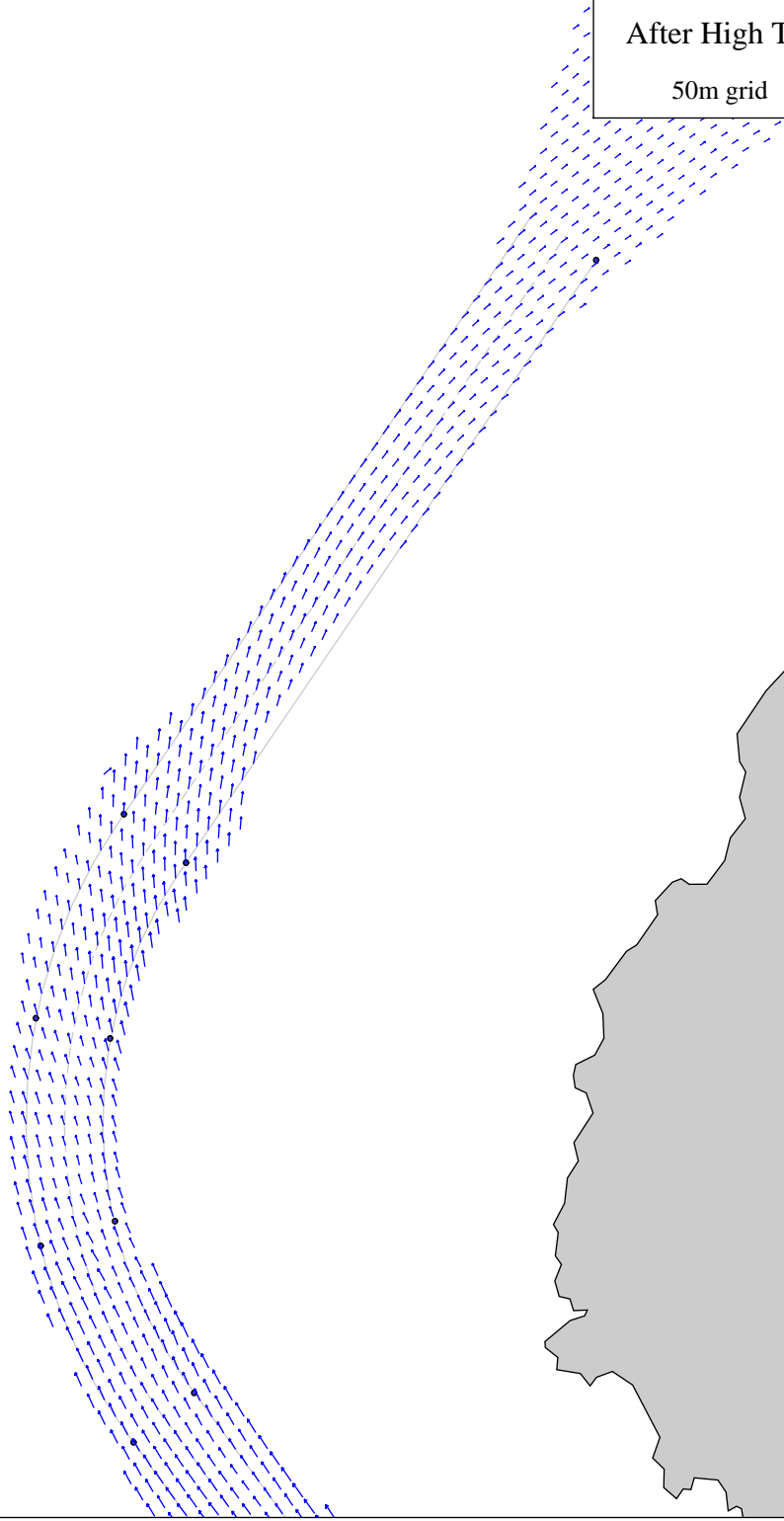
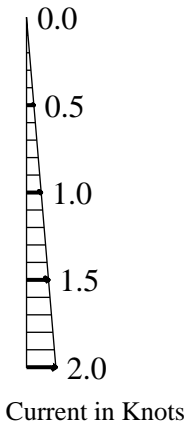
These tidal predictions should not be relied upon for navigation. Ocean Currents Ltd accepts no liability for any direct, indirect, consequential or incidental damages that result from any errors in the predictions or supplied information, whether due to Ocean Currents Ltd or a third party, or that arise from the use, or misuse, of the predictions or other any supplied information

# ADCP Measured Tidal Currents-Outer Rangitoto Channel

## HW +04:00

After High Tide at Auckland

50m grid



ADCP measured tidal currents for vessel simulator, surveyed 2014 (inner harbour)+2019 (Rangitoto channel)

Spring tide of 3.0 meter range

Measurements, Ports of Auckland Ltd, Analysis, Ross Vennell, Ocean Currents Ltd,rvennell@xtra.co.nz 18-Oct-2020

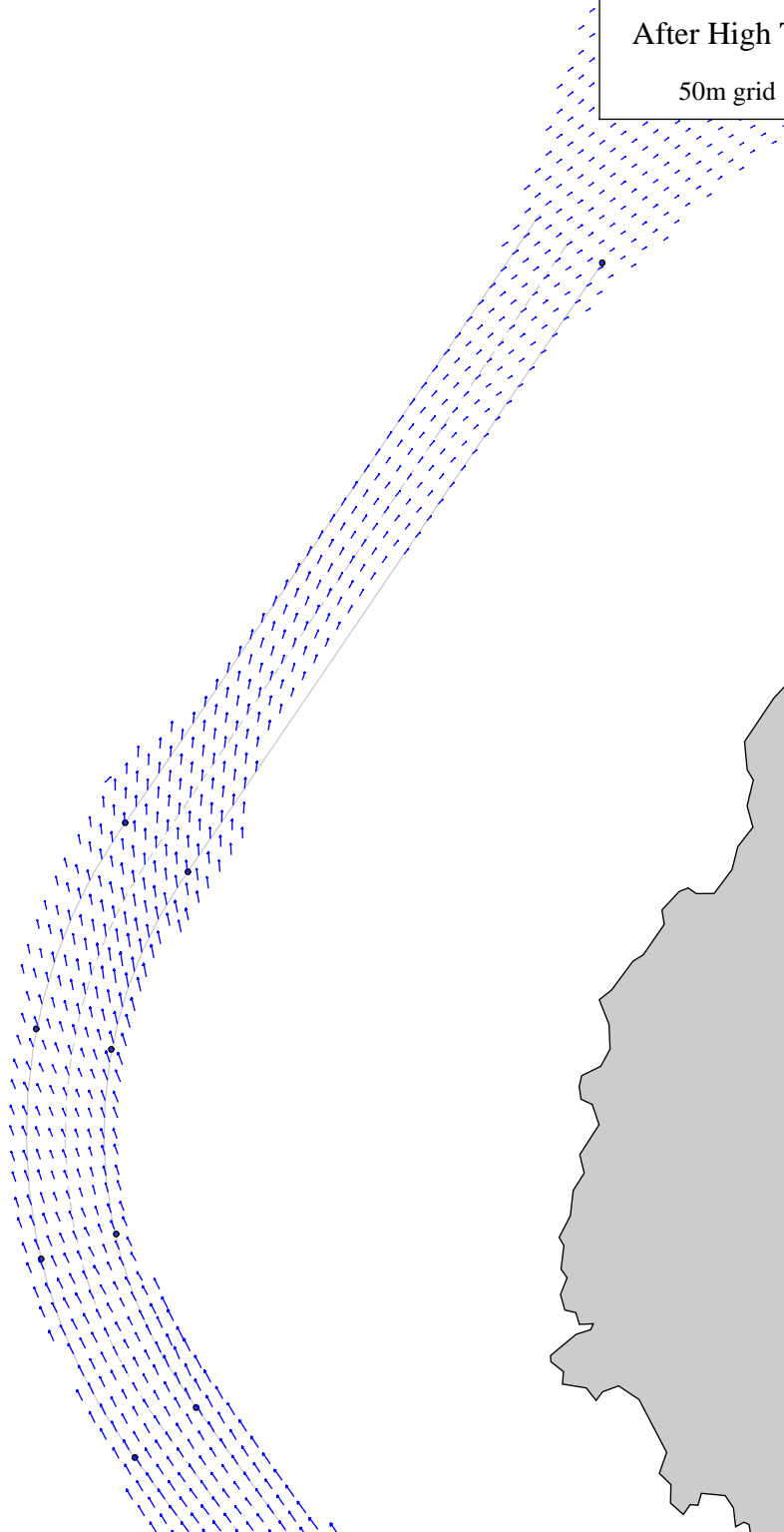
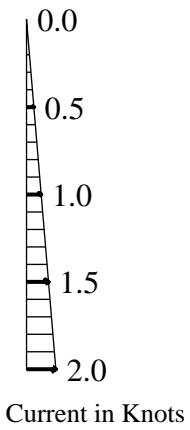
These tidal predictions should not be relied upon for navigation. Ocean Currents Ltd accepts no liability for any direct, indirect, consequential or incidental damages that result from any errors in the predictions or supplied information, whether due to Ocean Currents Ltd or a third party, or that arise from the use, or misuse, of the predictions or other any supplied information

# ADCP Measured Tidal Currents-Outer Rangitoto Channel

## HW +04:30

After High Tide at Auckland

50m grid



ADCP measured tidal currents for vessel simulator, surveyed 2014 (inner harbour)+2019 (Rangitoto channel)

Spring tide of 3.0 meter range

Measurements, Ports of Auckland Ltd, Analysis, Ross Vennell, Ocean Currents Ltd,rvennell@xtra.co.nz 18-Oct-2020

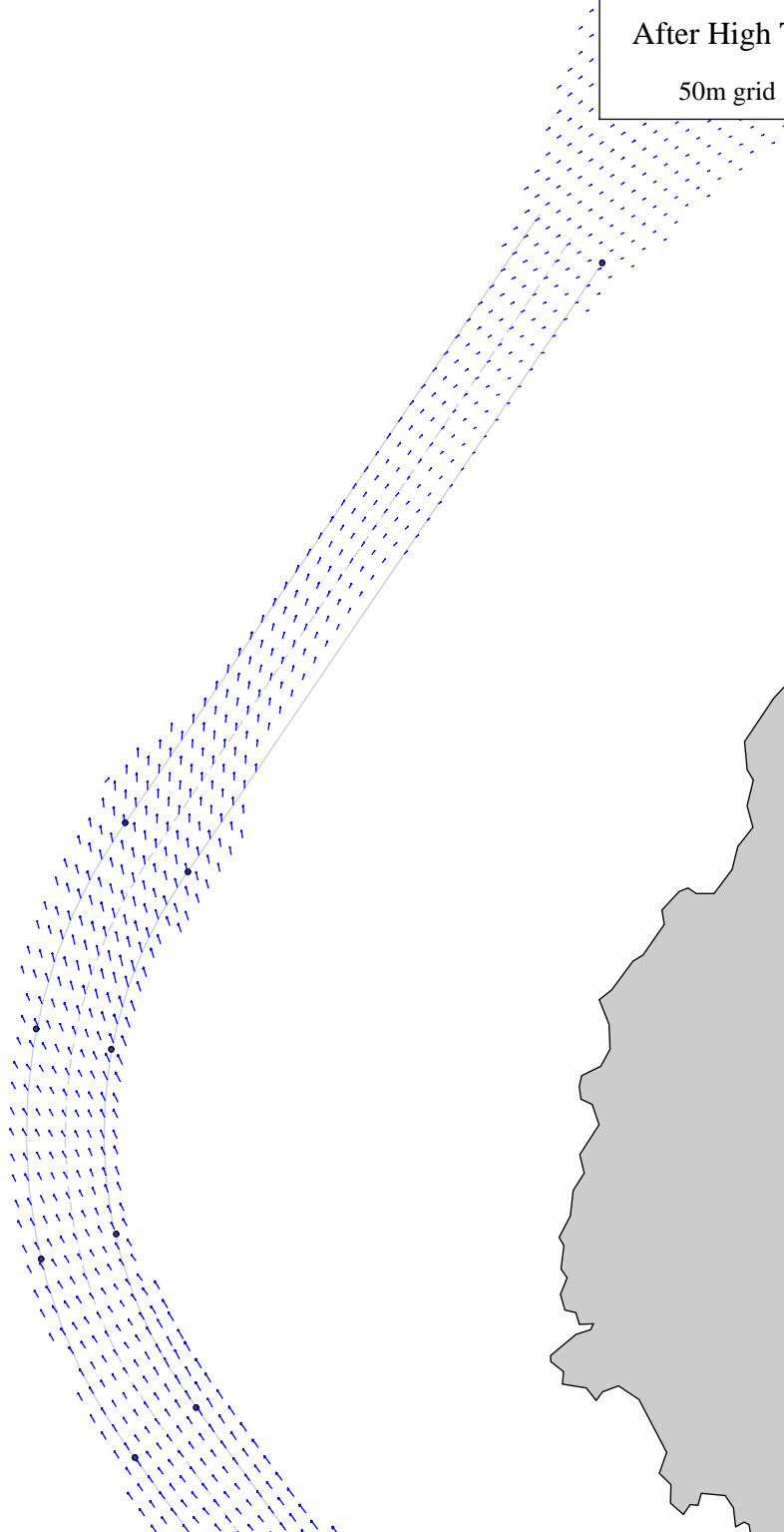
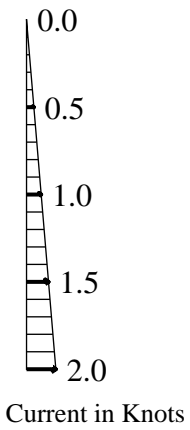
These tidal predictions should not be relied upon for navigation. Ocean Currents Ltd accepts no liability for any direct, indirect, consequential or incidental damages that result from any errors in the predictions or supplied information, whether due to Ocean Currents Ltd or a third party, or that arise from the use, or misuse, of the predictions or other any supplied information

# ADCP Measured Tidal Currents-Outer Rangitoto Channel

## HW +05:00

After High Tide at Auckland

50m grid



ADCP measured tidal currents for vessel simulator, surveyed 2014 (inner harbour)+2019 (Rangitoto channel)

Spring tide of 3.0 meter range

Measurements, Ports of Auckland Ltd, Analysis, Ross Vennell, Ocean Currents Ltd,rvennell@xtra.co.nz 18-Oct-2020

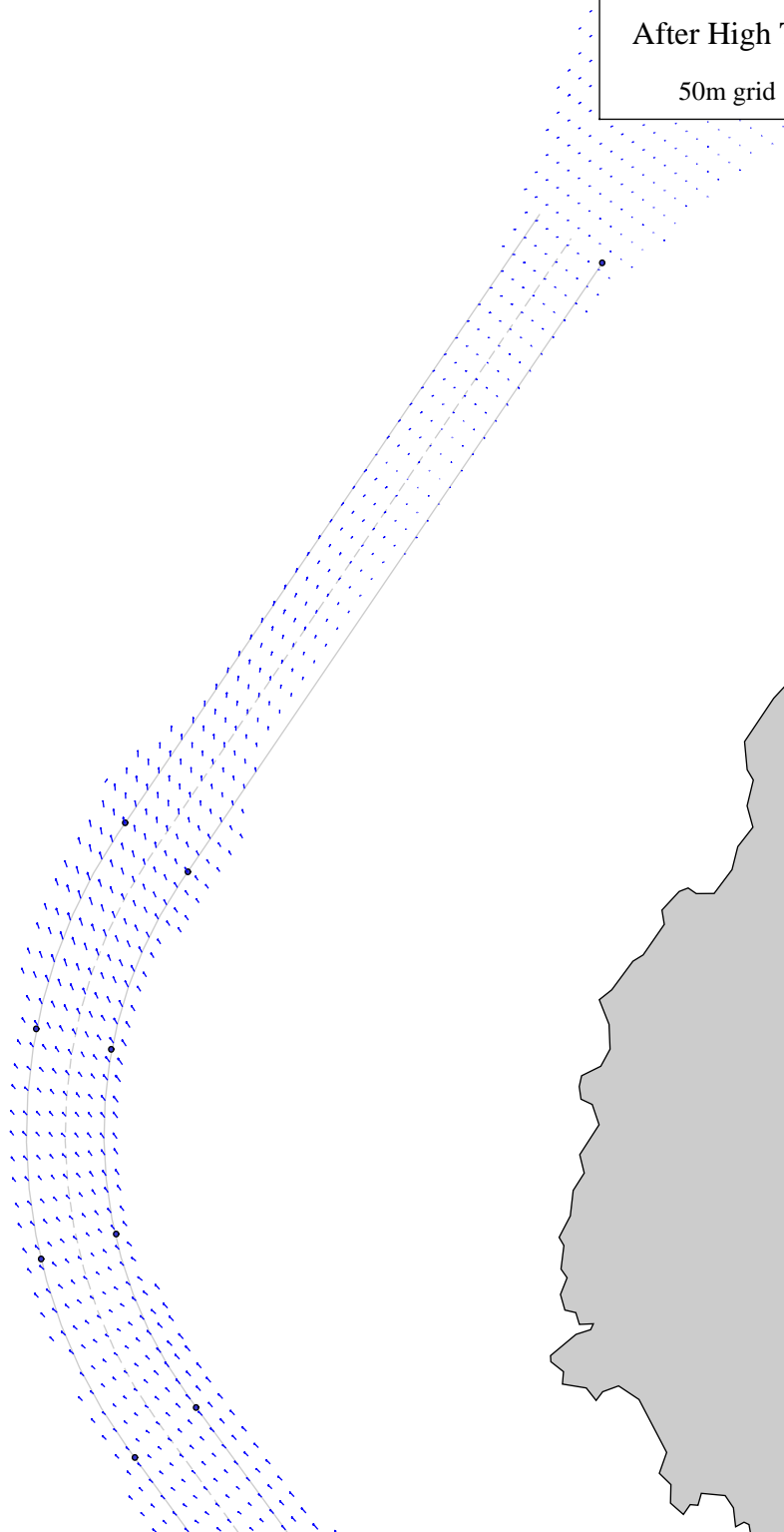
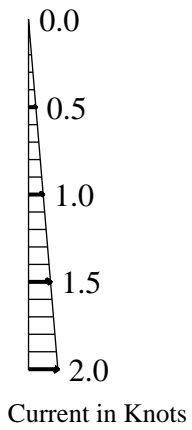
These tidal predictions should not be relied upon for navigation. Ocean Currents Ltd accepts no liability for any direct, indirect, consequential or incidental damages that result from any errors in the predictions or supplied information, whether due to Ocean Currents Ltd or a third party, or that arise from the use, or misuse, of the predictions or other any supplied information

# ADCP Measured Tidal Currents-Outer Rangitoto Channel

## HW +05:30

After High Tide at Auckland

50m grid



ADCP measured tidal currents for vessel simulator, surveyed 2014 (inner harbour)+2019 (Rangitoto channel)

Spring tide of 3.0 meter range

Measurements, Ports of Auckland Ltd, Analysis, Ross Vennell, Ocean Currents Ltd,rvennell@xtra.co.nz 18-Oct-2020

These tidal predictions should not be relied upon for navigation. Ocean Currents Ltd accepts no liability for any direct, indirect, consequential or incidental damages that result from any errors in the predictions or supplied information, whether due to Ocean Currents Ltd or a third party, or that arise from the use, or misuse, of the predictions or other any supplied information

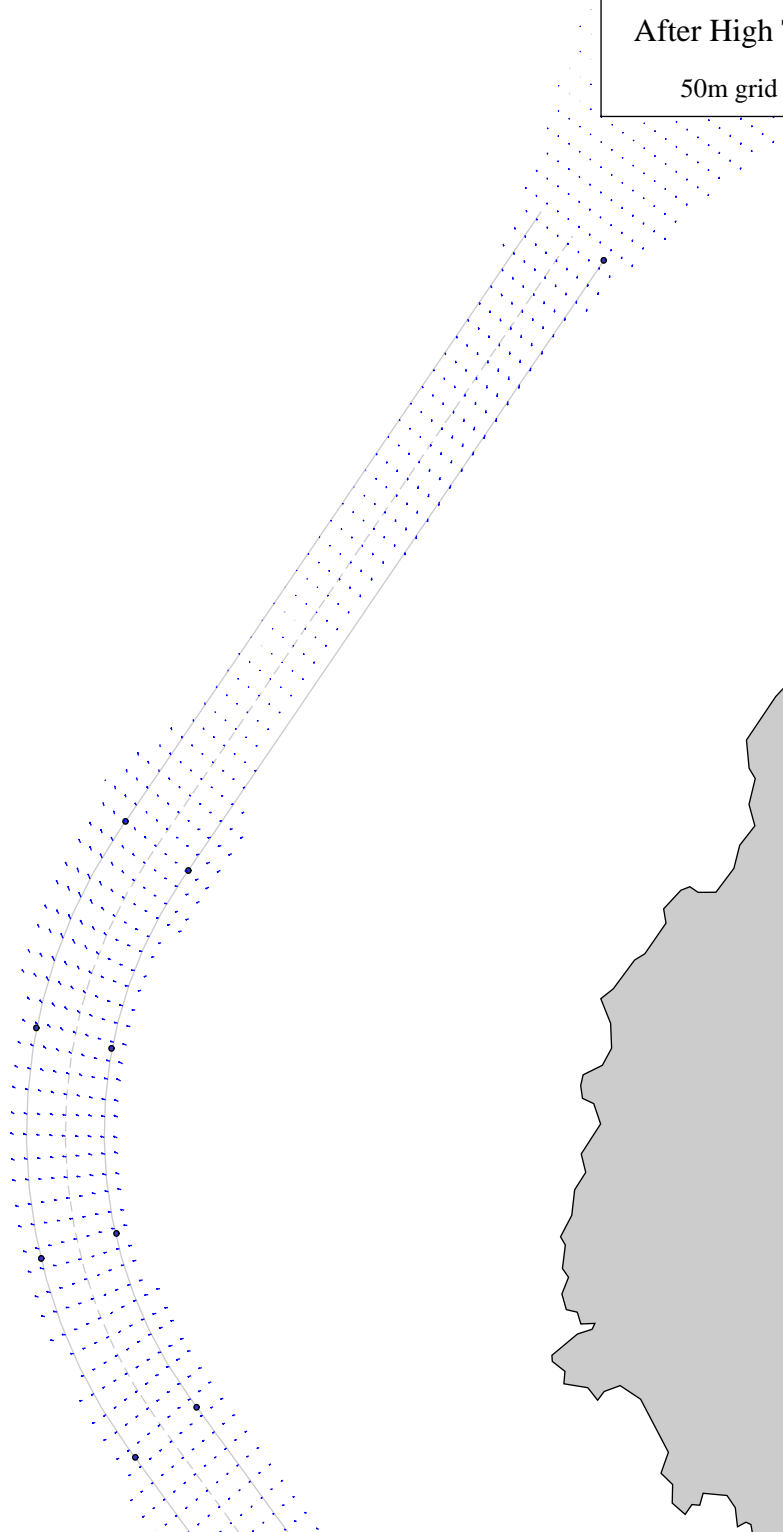
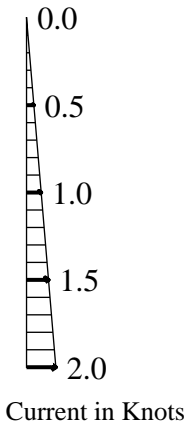


# ADCP Measured Tidal Currents-Outer Rangitoto Channel

**HW +06:00**

After High Tide at Auckland

50m grid



ADCP measured tidal currents for vessel simulator, surveyed 2014 (inner harbour)+2019 (Rangitoto channel)

Spring tide of 3.0 meter range

Measurements, Ports of Auckland Ltd, Analysis, Ross Vennell, Ocean Currents Ltd,rvennell@xtra.co.nz 18-Oct-2020

These tidal predictions should not be relied upon for navigation. Ocean Currents Ltd accepts no liability for any direct, indirect, consequential or incidental damages that result from any errors in the predictions or supplied information, whether due to Ocean Currents Ltd or a third party, or that arise from the use, or misuse, of the predictions or other any supplied information