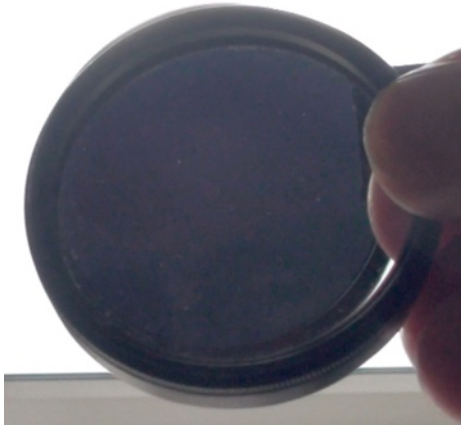
Polaroid filters

The Fizzics Organization
www.fizzics.co.uk
www.fizzics.org

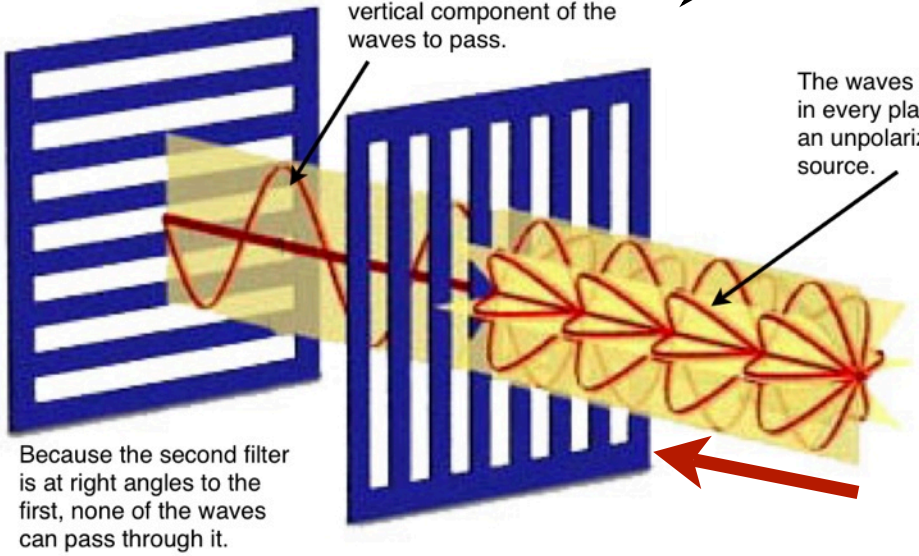
Two polaroid filters are held together so that the light passes through both. If the filters are held so that they are alined the same way, the effect is the same as it would be for one filter.



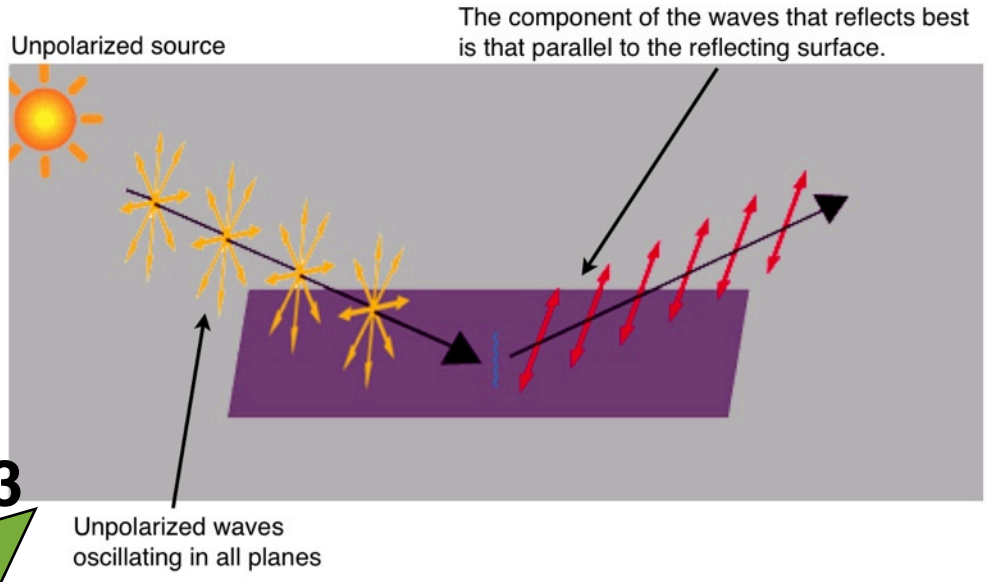
If we then rotate one filter the light gradually darkens, with 90 degree rotation no light is passed. If we continue to rotate the light increases once more.

1

2



3



Sunlight reflecting from sea, sand or snow is partly polarized.

4 If a polaroid filter is turned so that most of this directly reflected light is cut out then glare is reduced.

The polaroid filter cuts out a lot of the reflection from the surface of the water