

Entrained Ether: A Memorandum

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Sagnac effect has been ignored in relation to the ether-wind due to an error in interpretation of the effect as caused by a *rotating surface*. The correct interpretation is as a *translating line*. Integrating angular velocity over a surface is equal to integrating tangential component of translational velocity along the edge of the surface. (Stokes' rule.) The Sagnac effect *must be* distributed where the *light* is, and a translating line detects the ether-wind. Sagnac detected a man-made ether-wind, and GPS detected a natural ether-wind.

Stellar aberration has been accepted as an argument against entrained ether due to an error in applying vector addition to a real *translation* of the ether and a wave-like *behaviour* inside the ether. Adding a translation can *not* rotate internal behaviour, and the translation has therefore a *one-dimensional* effect on the wave motion. Stellar aberration is *silent* about the ether-wind.

Michelson-Morley's experiments are *unimportant* in relation to entrained ether due to low accuracy and are probably *silent* due to contraction of length.

The entrained ether is *supported* by the Sagnac effect and *not refuted* by stellar aberration or by MMX.