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Hyperbolic flow (pure deformation)	rate of expansion of area	Green's theorem	Stokes' theorem	Circulation	Shear	Divergence	Vorticity	Deformation	Stretching of pos mes	Dilation/contraction +	Diffluence/confluence 5-tresm	cyclonic 1649+5	Curvature Ryth O	natural coordinates SS	isotachs	trajectories, 3D or horizontal	streamlines, 3D or horizontal	Kinematics d(space)	Vocabulary item
	(horizontal divergence is 1/A dA/dt)	as above but for divergence		the area-integral of vorticity, equal to line i tangential wind by Stokes' Theorem	ST I part variaty +	SAL DENDER	S) S NOT a Parel			WO dxcs of deformer	ms apat Hosether (without	on in same direction as	change of direction i	Streamwise (glong flow) 9	ms line of constant	time path of a paral	instantamous - parallel +	Descriptions of vector field variations in space only (no time evolution, not dynamics)	or term, Concept (words) units
				n to line integral of	part determation	TAA SOLU	(ocally)			ign "	- divergency perhaps		a downstrain direction	and vormal (lett ot )	speed ab		o velocity at caan form	(arrows on a plane)	(sketch)





