

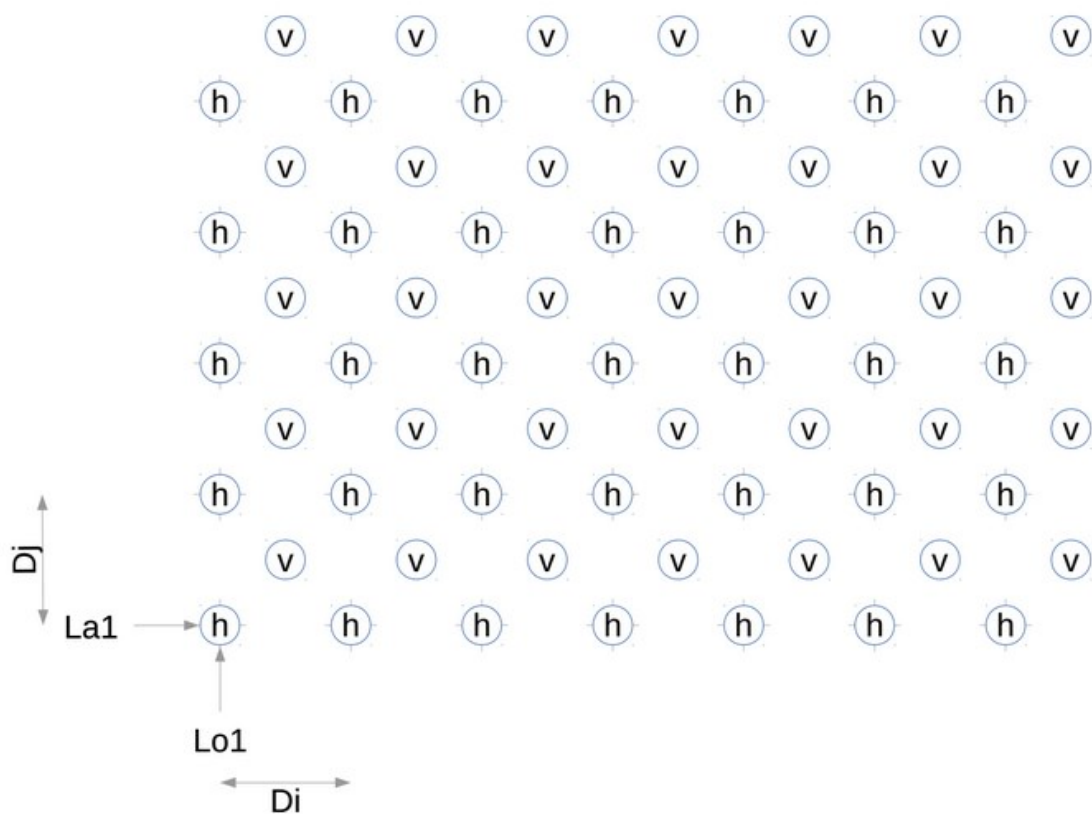
ATTACHMENT II

ARAKAWA GRIDS

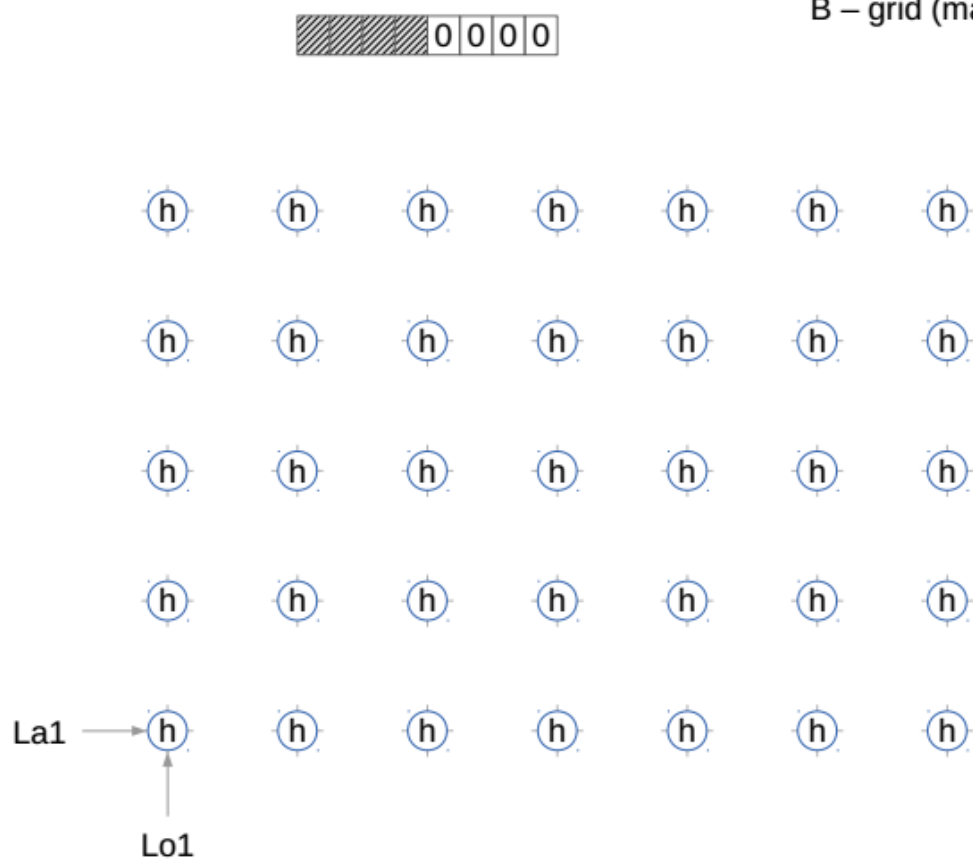
Arakawa grids were first described in Arakawa and Lamb (1977).¹ There are several different grids with unique staggers labelled as A, B, C, D and E. The following examples show how many of these grids can be defined in GRIB2 using grid definition template 3.1 along with bits 5 through 8 of Flag table 3.4. The relevant bit settings are noted where applicable.

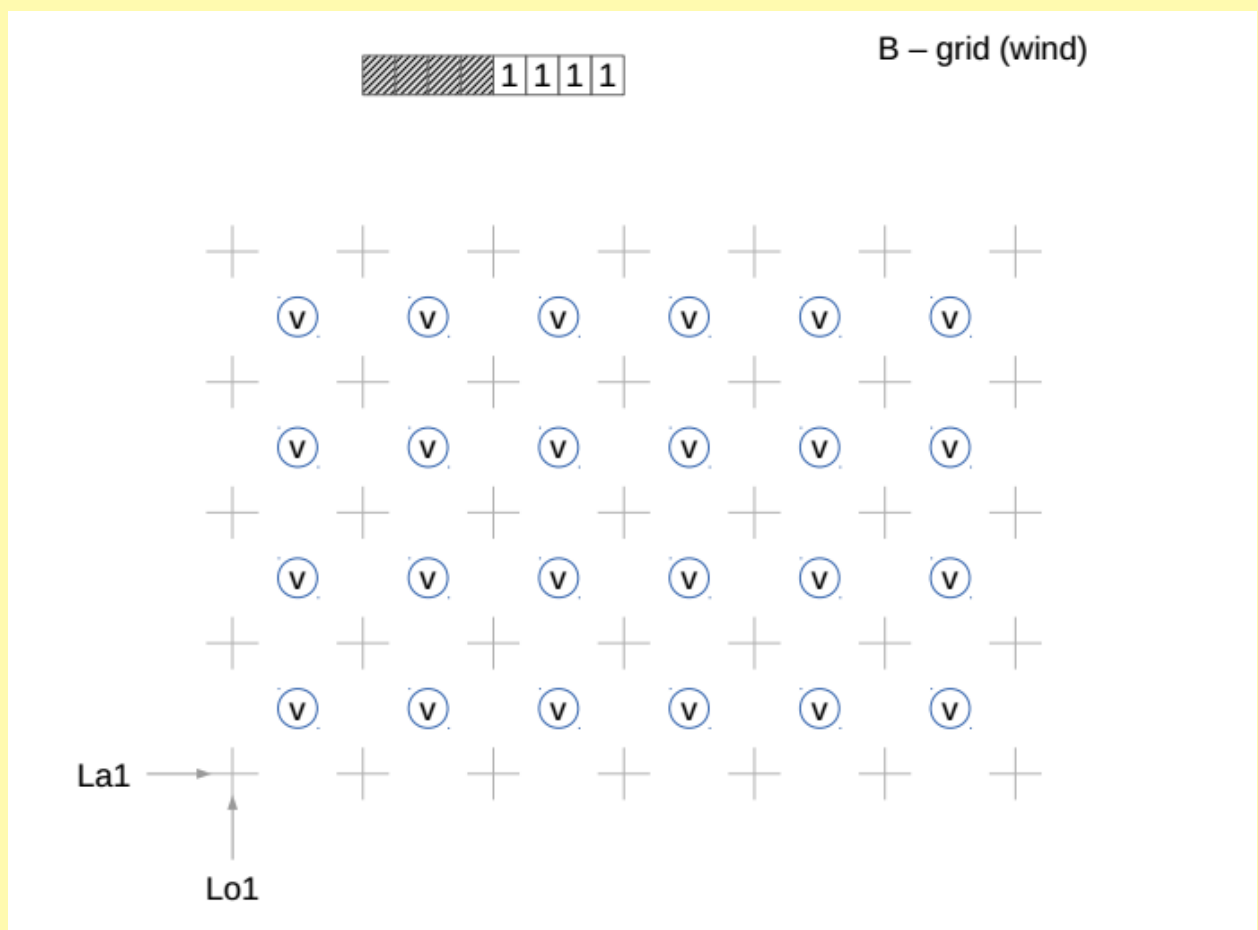
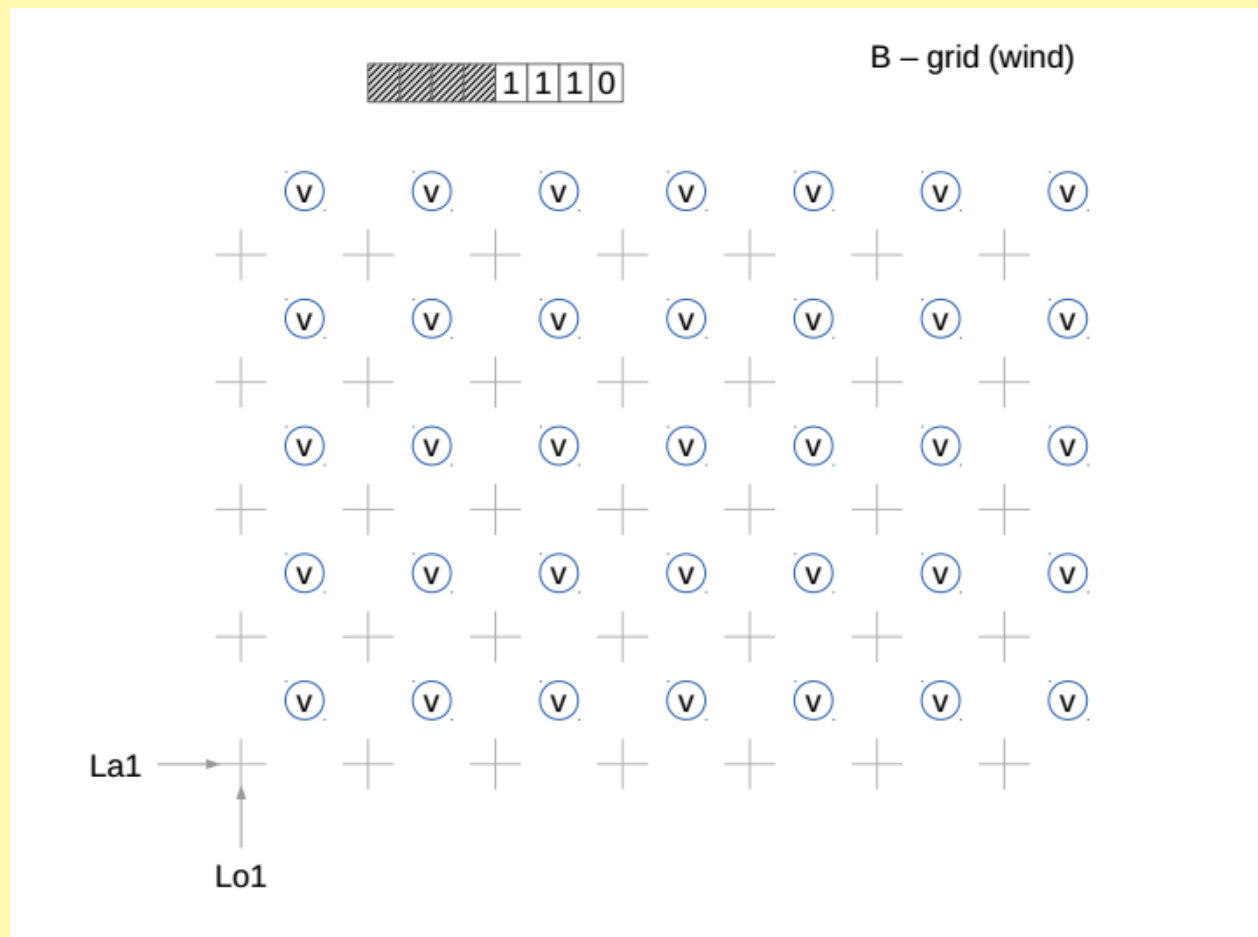
¹ Arakawa, A. and V.R. Lamb, 1977: Computational design of the basic dynamical processes of the UCLA general circulation model. *Methods of Computational Physics* 17, New York: Academic Press, pp. 173–265.

B – grid (full)

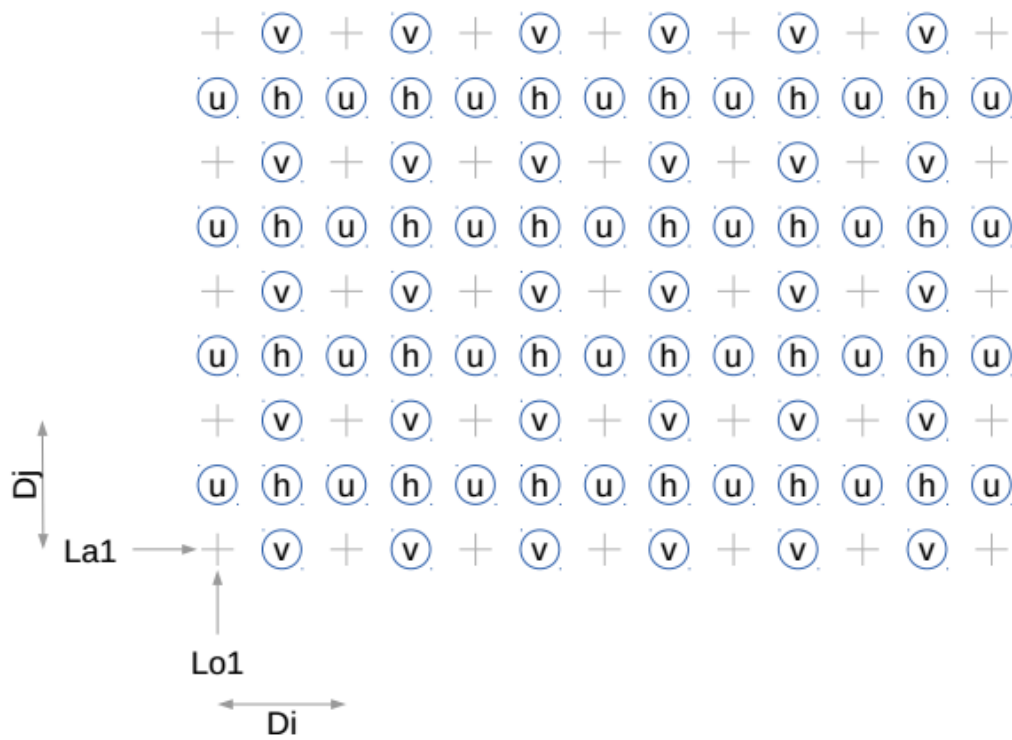


B – grid (mass)

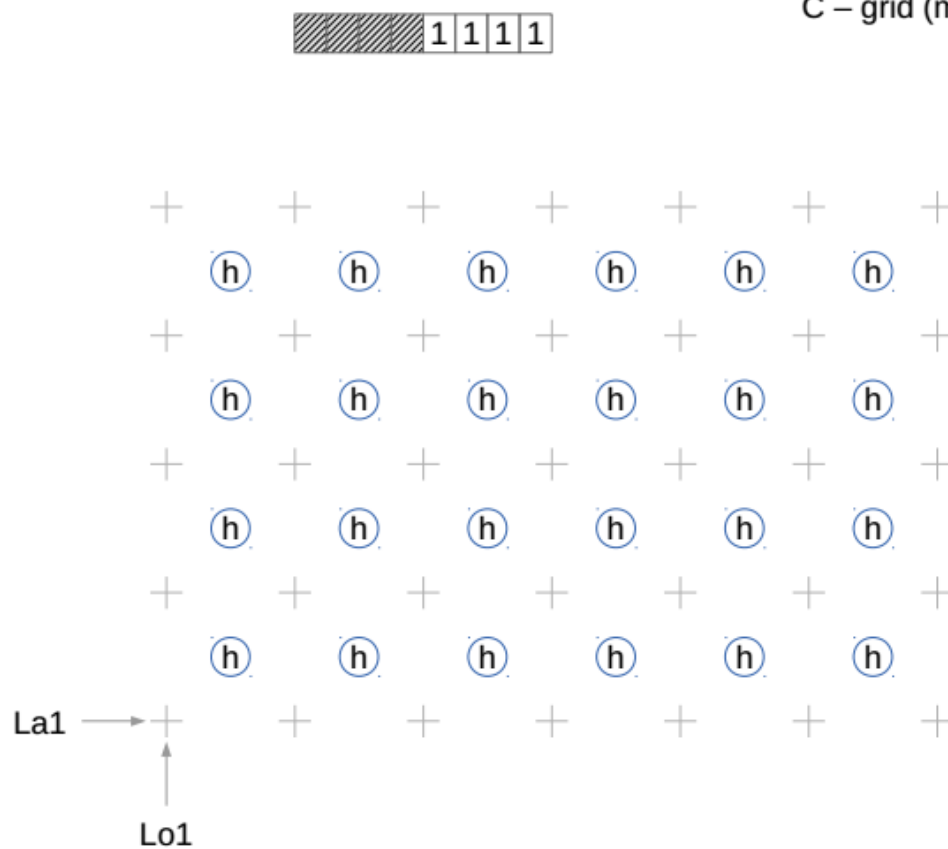




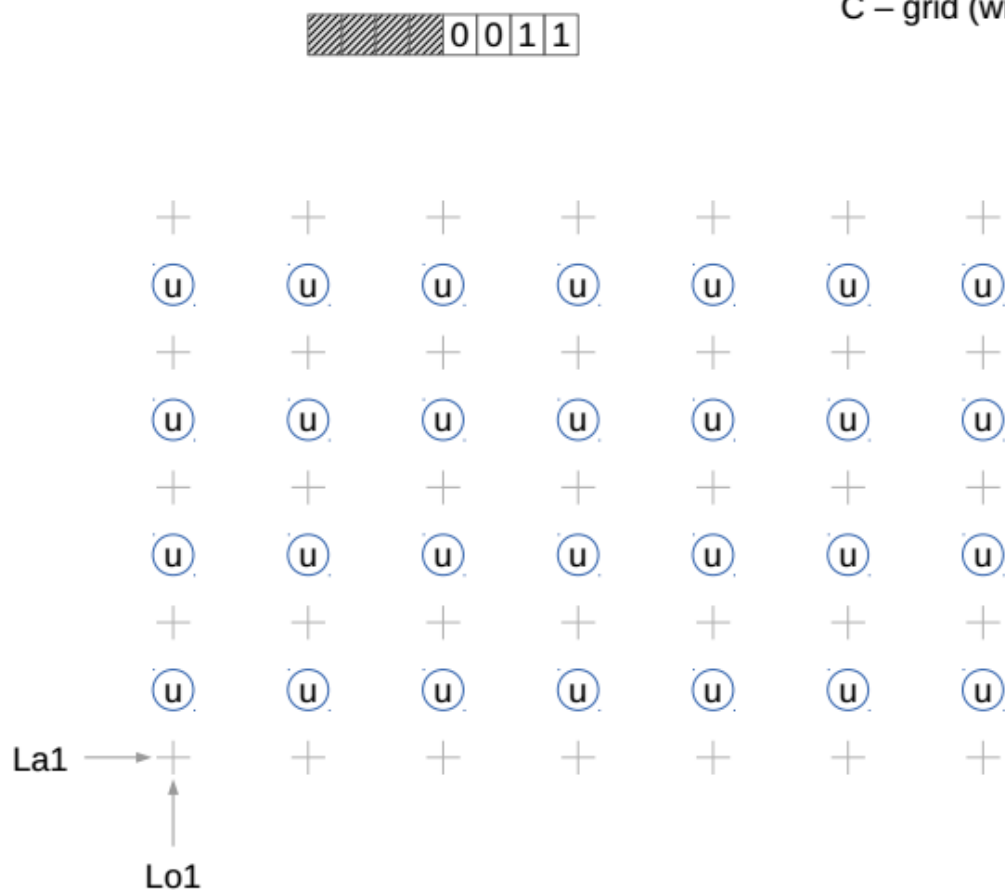
C – grid (full)



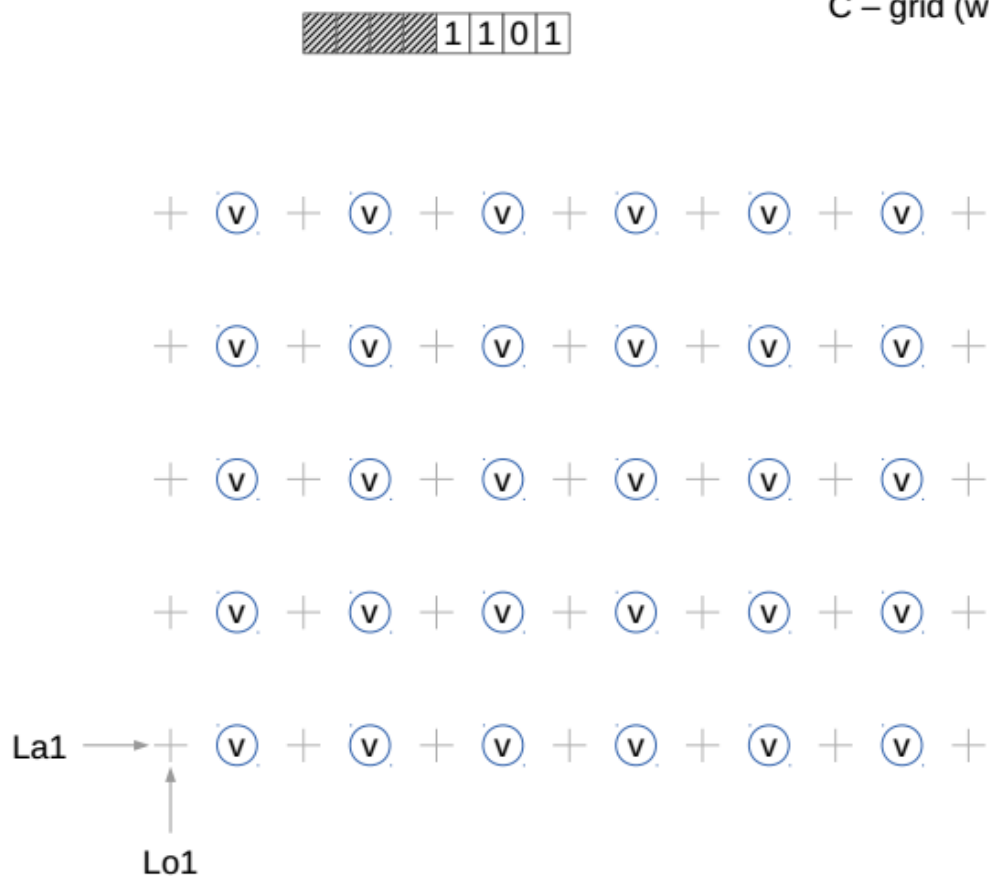
C – grid (mass)



C – grid (wind-u)



C – grid (wind-v)

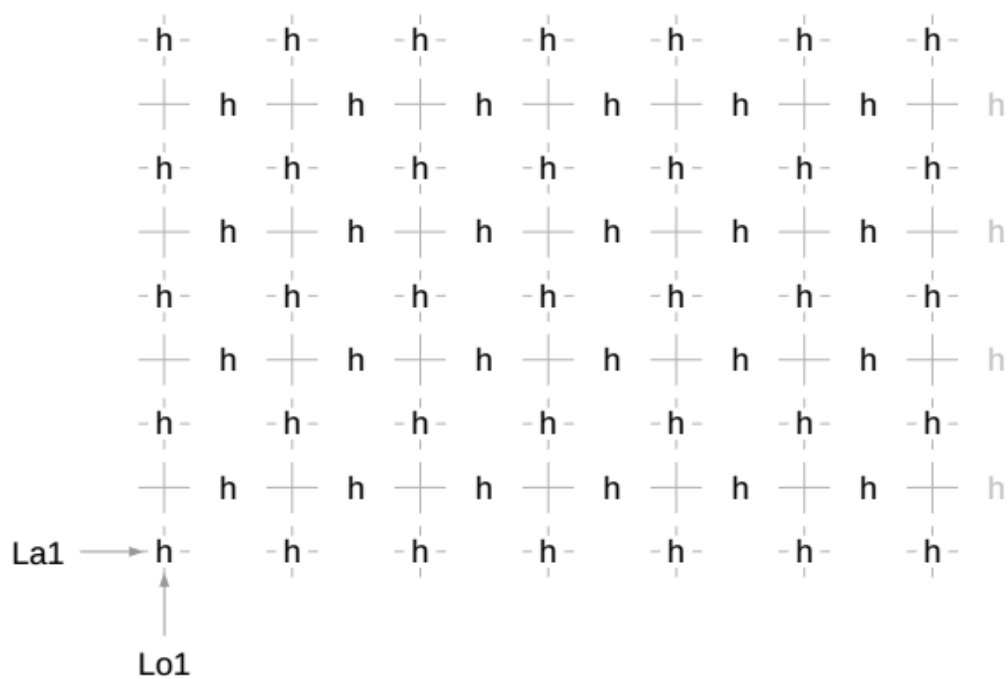


E – grid (full)

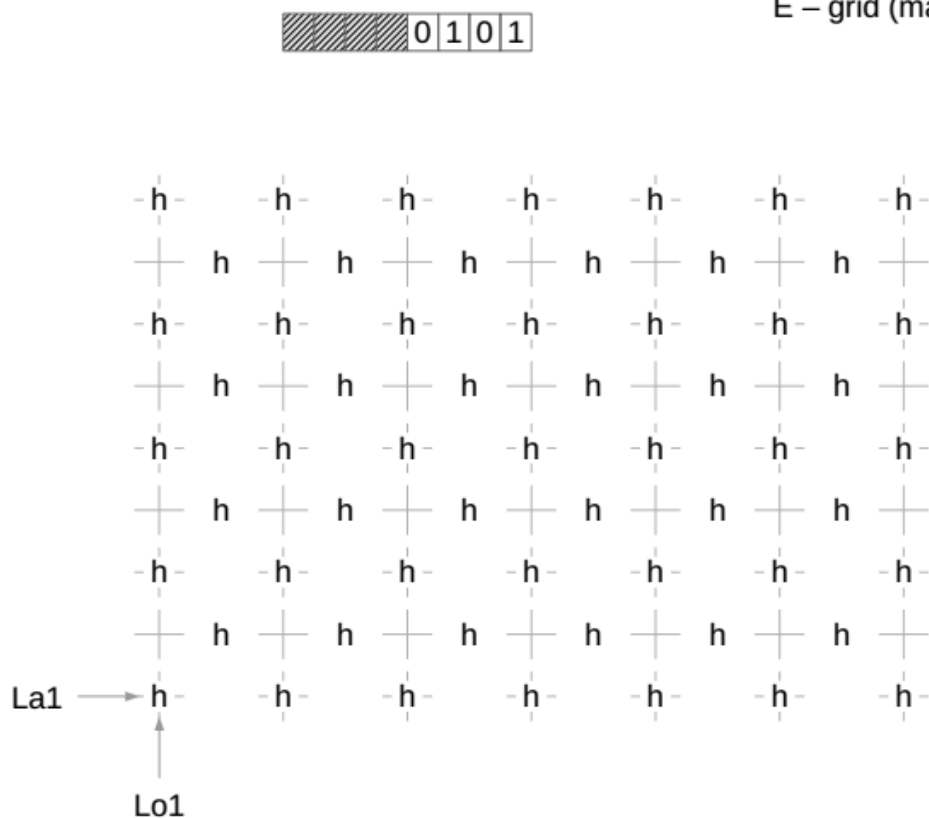


E – grid (mass) full array

	0	1	0	0
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E – grid (mass) jagged array



E – grid (wind) full array



