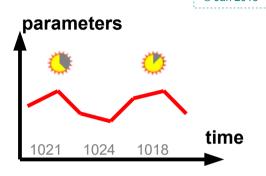
## What is a aerological meteogram ?

It is a simple xy graph. It represents at <u>any</u> <u>particular place</u>, the evolution of one or more aerological parameters y during a time frame x (a few hours to a few days).

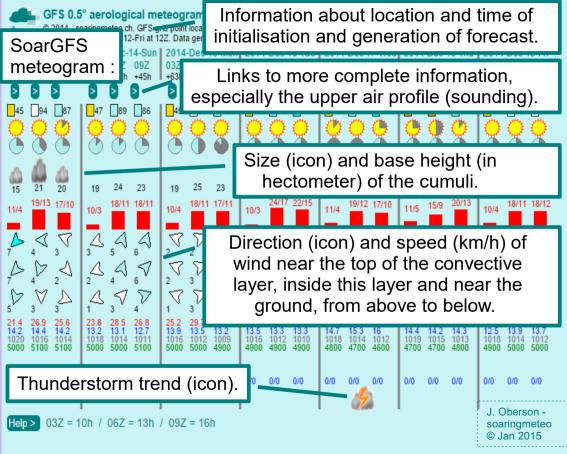


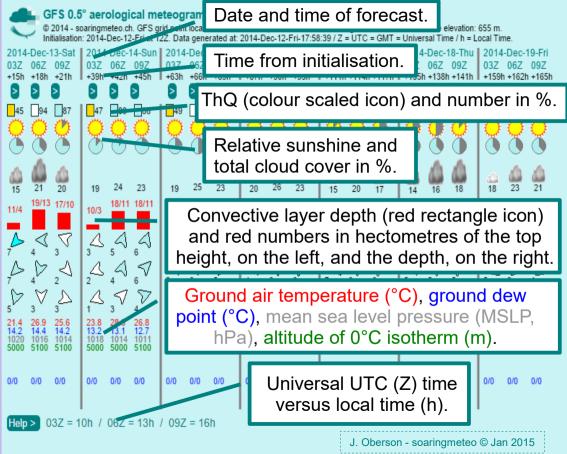
J Oberson -

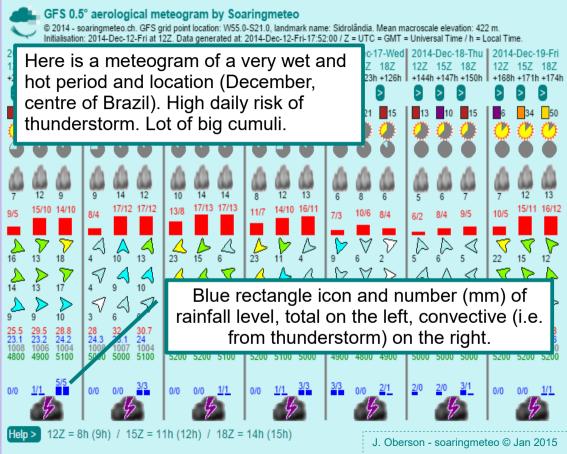
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The parameters can be in the form of icons, curves or numerical values. If there are too many parameters, especially the curves, the meteogram can rapidly become unreadable.

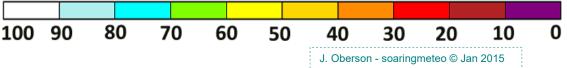
The meteograms of soarGFS have many parameters, distributed in 21 periods during 7 days (3 periods / day) of forecasting. So icons and numerical values are preferred.







The ThQ (thermal quality) is a parameter in % that combines three others: the amount of clouds, the thickness of the convective boundary layer and the average wind speed of this layer. This artificial parameter allows to assess the conditions of thermal flying at a glance. But it must not replace the assessment of the true weather parameters. Its values range from 0% (very bad thermal soaring) to 100% (good thermal soaring). If there is no cloud (i.e. lot of sunshine), if the convective layer has a thickness of more than 1200 m and if the winds are weak, the ThQ is close to 100%. The ThQ decreases if the amount of cloud increases, the winds strengthens or the convective layers thickness decreases. If two of these three parameters are favourable, but the third is very unfavourable, for example few clouds, good convective boundary layer but strong winds, the ThQ is near 0. To evaluate the ThQ even faster, there are small colour-coded icons. See the colour scale below:

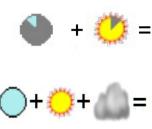




Relative sunshine in % : examples from links to right, 100, 75, 50, 35, 0.



Cloud cover in % : examples from links to right, 100, 65, 50, 25, 0.



Many translucent clouds, generally located at high level, allowing the solar radiation to cross them.

Generally clear sky with locally numerous and large cumulus, in location with good thermals.

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