Neill Bowler
9:21 AM
With option 2 it appears that the filter is explicitly setting the observations to have the diagnostic flag values. Therefore a filter could apply the flag to some, but not all, of the observations it considers. For instance a modifier of winds could mark some of the observations as unfolded and some as not? I got the impression that this is not possible in option 1? (I don't know if this is a good thing or not)

Andrew Lorenc
9:24 AM
If an ob is truly passive, it cannot be used to determine VarBC coeffs, which depend on Jo using the obs. (But it may be corrected itself, using the background coeffs).

Yannick Tremolet
9:26 AM
@Andrew: true, we would have passive and "semi-passive" or any better name.

Anna Shlyaeva
9:27 AM
Option 2: we could also replace the current QC flags (ObsDataVector<int>) in the filters interface with the proposed QC flag manager, which would include both the current simple flags + user defined flags.

Anna Shlyaeva
9:29 AM
I don't have a strong preference either way.

Ryan Honeyager
9:29 AM
I'm fine with starting with option 1.