Glacier runoff and "Peak Water"

For selected glacier basins in the Andes

Peak water refers to a point in time where meltwater runoff is at its maximum

Normalized runoff

Glacier runoff

- 1990
- 2020
- 2050
- 2090
- Observed river basin runoff

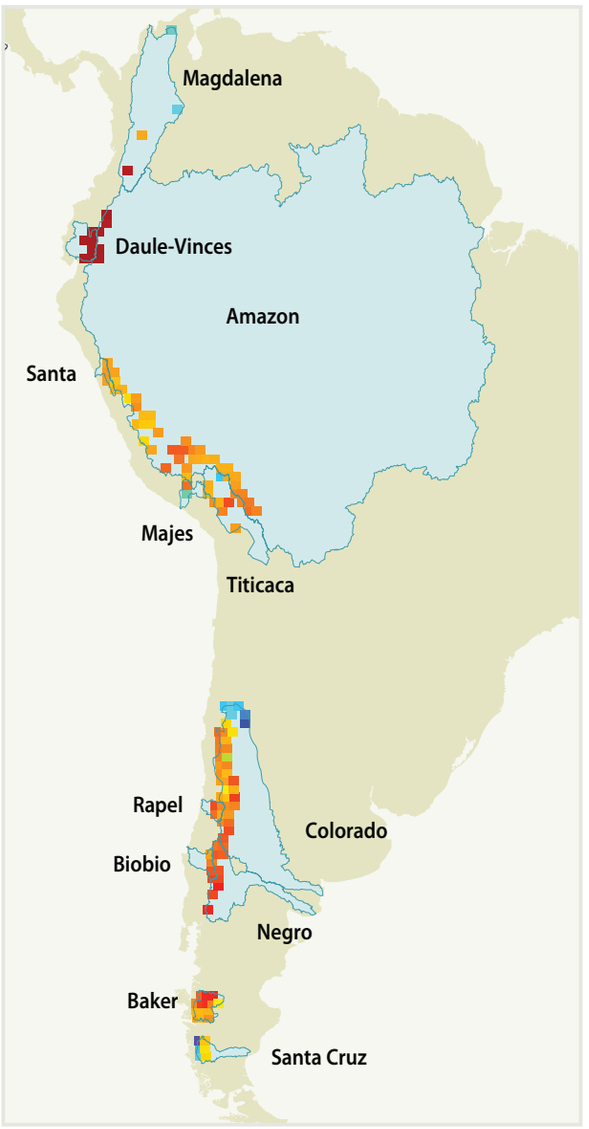
Peak Water

- XXXX Year already past
- XXXX Year yet to come

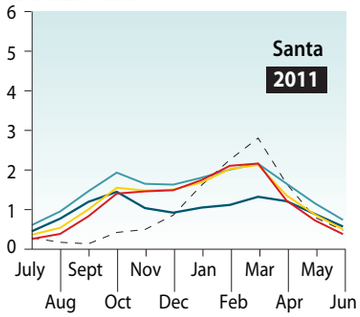
Margin of error up to 20 years

Peak water year for selected glaciers in each basin

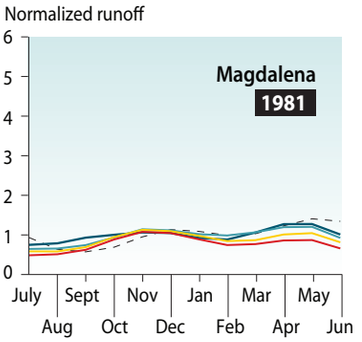
1980 2010 2040 2070 2100



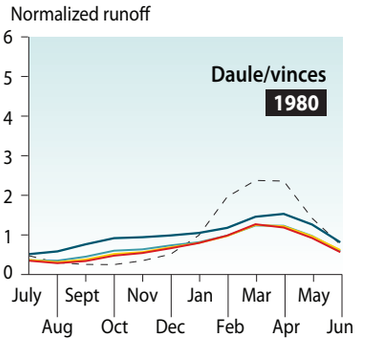
Normalized runoff



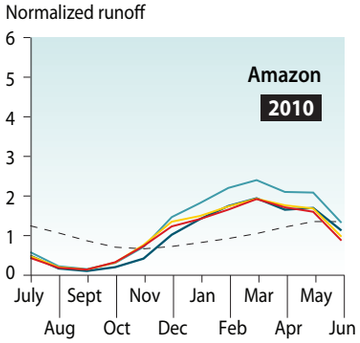
Normalized runoff



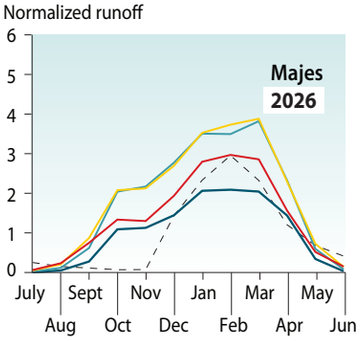
Normalized runoff



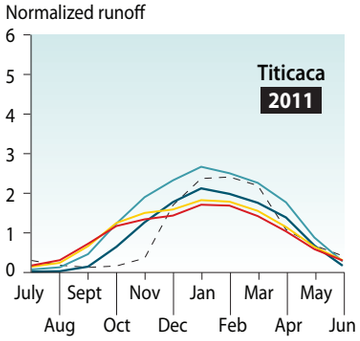
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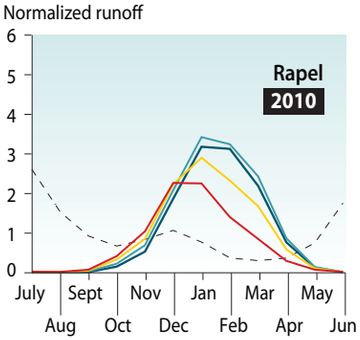
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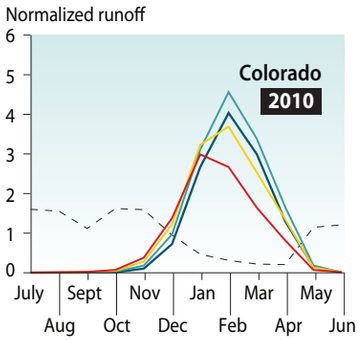
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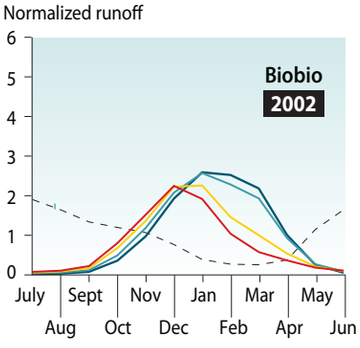
Normalized runoff



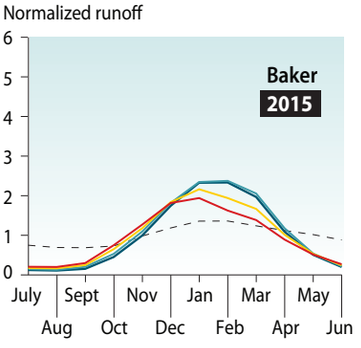
Normalized runoff



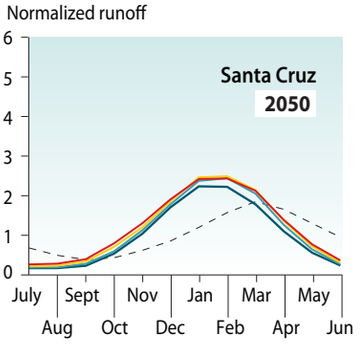
Normalized runoff



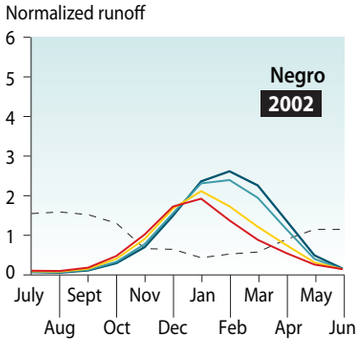
Normalized runoff



Normalized runoff



Normalized runoff



Source: Huss, M., Hock., R., Global-scale hydrological response to future glacier mass loss, 2018