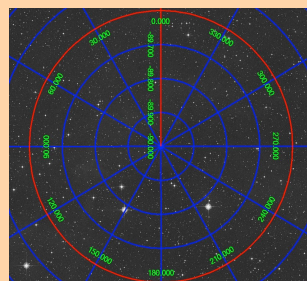


ASTEP: Towards the detection and characterization of exoplanets from Dome C, Antarctica

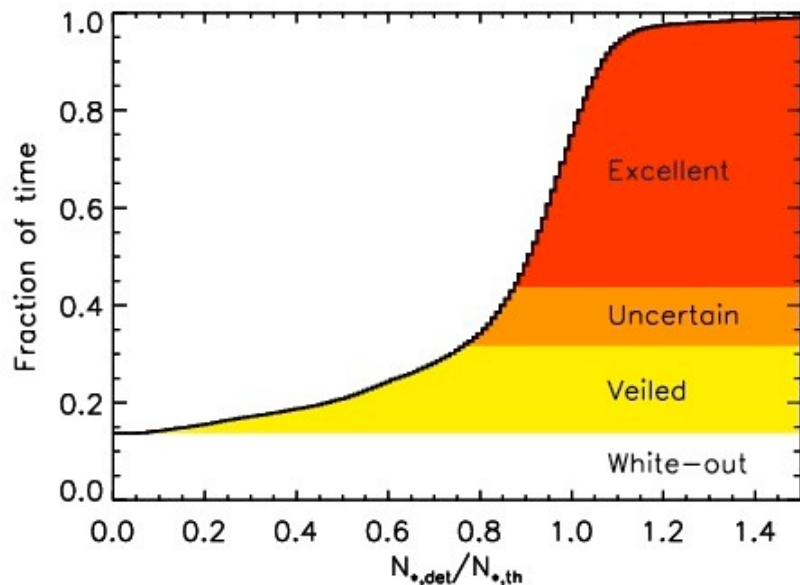
Crouzet N., Guillot T., Agabi A., Mékarnia D., Rivet J.-P., Abe L., Daban J.-B., Gouvret C., Fanteï-Caujolle Y., Fressin F., Bondoux E., Challita Z., Schmider F.-X., Valbousquet F., Blazit A., Bonhomme S., Rauer H., Erikson A., Fruth T., Barbieri M., Aigrain S., Pont F.

ASTEP South (10 cm)



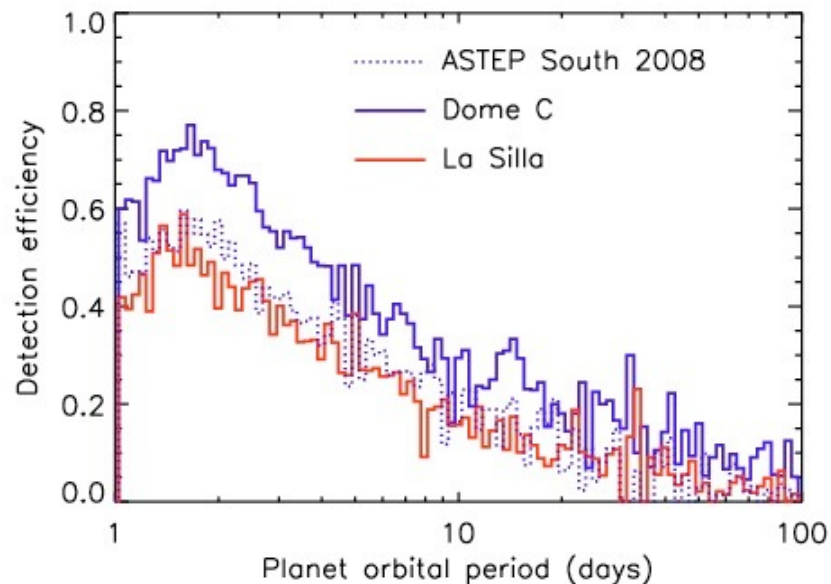
Crouzet et al., A&A, 2010

Weather statistics at Dome C



56.3% to 68.4% of excellent weather

Planet detection efficiency



Dome C 69% - La Silla 45%

ASTEP: Towards the detection and characterization of exoplanets from Dome C, Antarctica

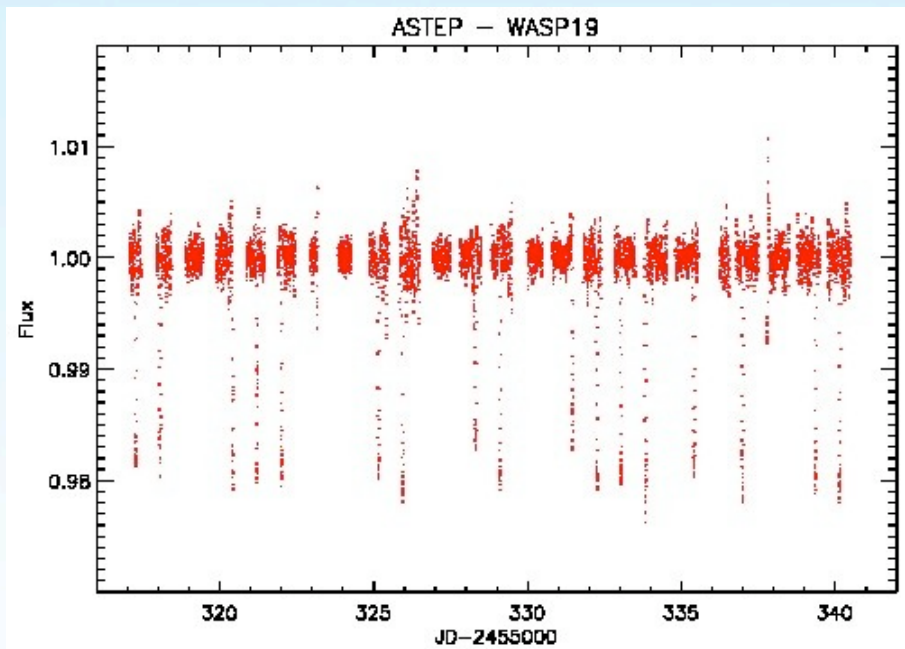
Crouzet N., Guillot T., Agabi A., Mékarnia D., Rivet J.-P., Abe L., Daban J.-B., Gouvret C., Fanteï-Caujolle Y., Fressin F., Bondoux E., Challita Z., Schmider F.-X., Valbousquet F., Blazit A., Bonhomme S., Rauer H., Erikson A., Fruth T., Barbieri M., Aigrain S., Pont F.

ASTEP 400
(40 cm)

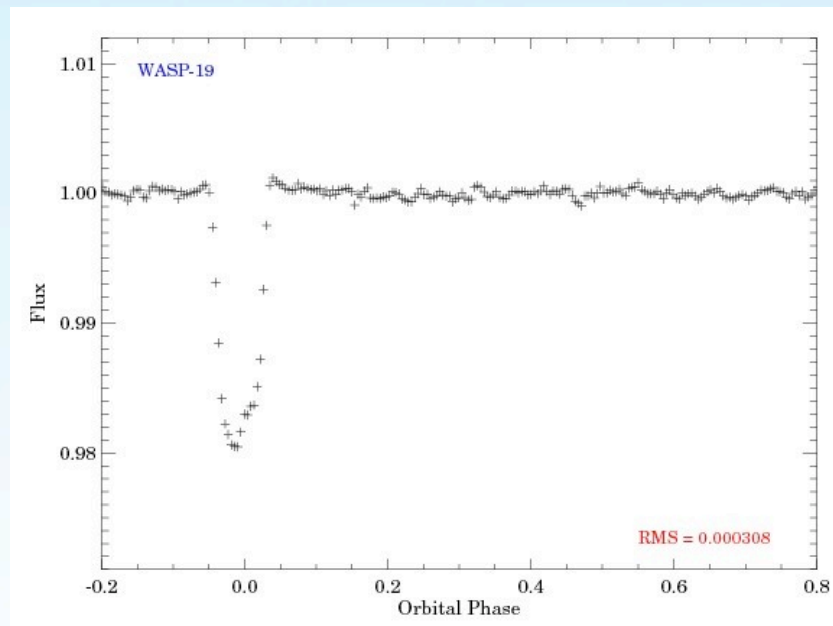


1-month observations of WASP-19 (Vmag=12.3)

Folded lightcurve



RMS ~ 1.4 mmag



RMS = 308 ppm !!