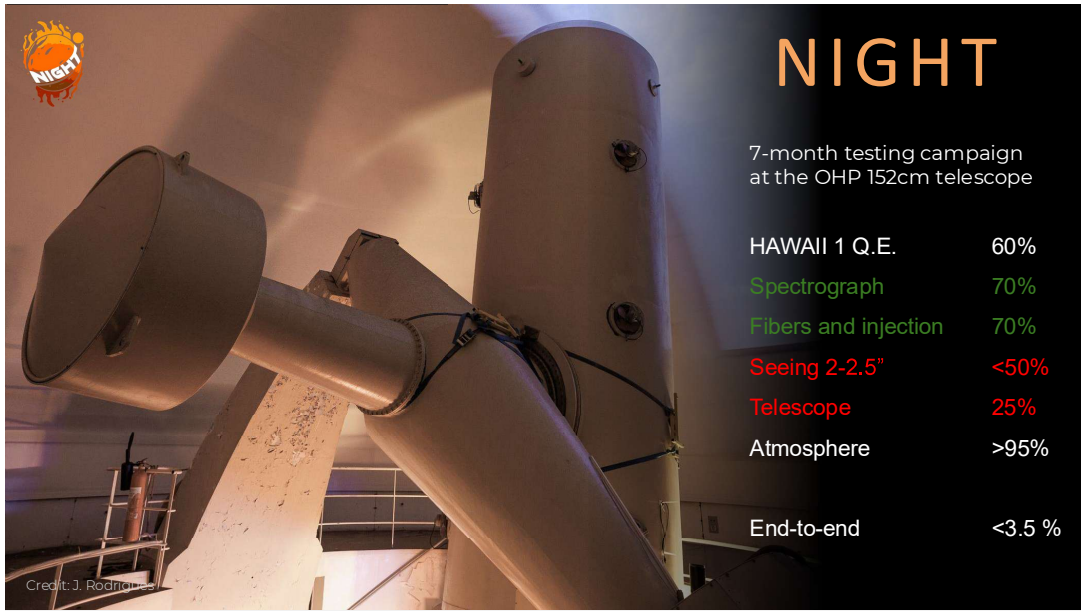
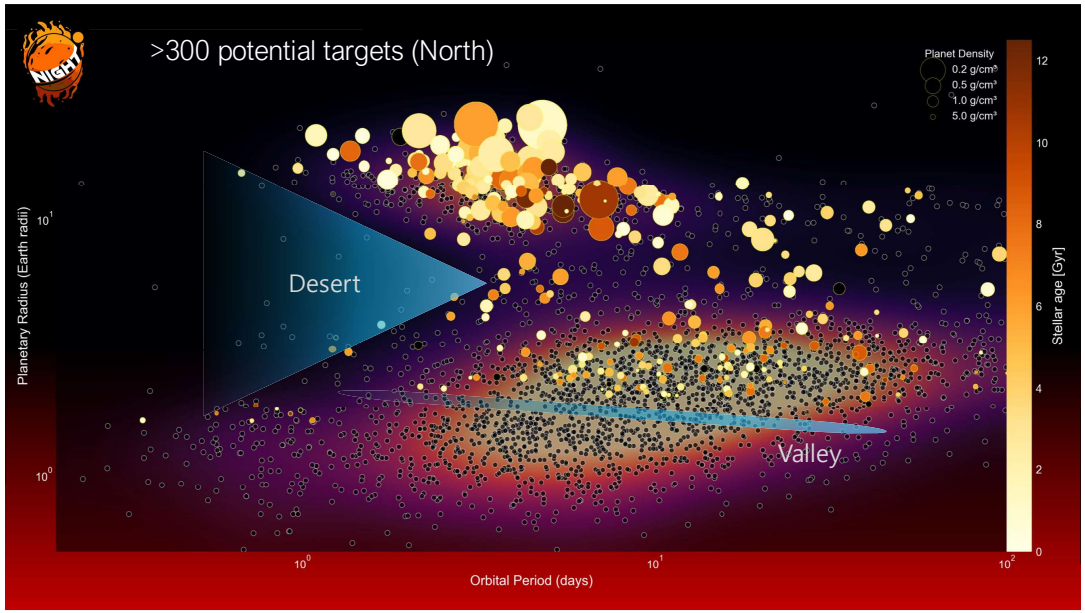


NIGHT

7-month testing campaign
at the OHP 152cm telescope

HAWAII 1 Q.E.	60%
Spectrograph	70%
Fibers and injection	70%
Seeing 2-2.5"	<50%
Telescope	25%
Atmosphere	>95%
End-to-end	<3.5 %

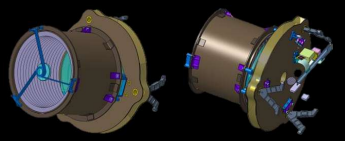


NIGHT's future

	NIGHT has returned to Geneva
Now :	Vacuum system, calibration, thermal stability upgrades
August 2026 :	NIGHT will be installed @TNG
September 2026 :	NIGHT tests at ESO's NTT
2027 :	NIGHT@NTT?

WALTzER - Wide band Atmospheric Laboratory for Transiting Exoplanet Research

ESA F3 mission concept
AT & CH equal PIs:
Consortium:

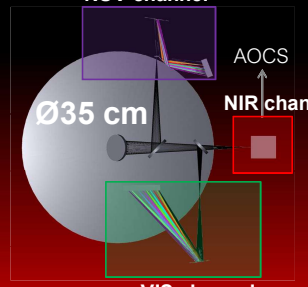


Core science
Simultaneously characterize lower & upper atmospheres of close-in gas rich planets:
- Temperature
- Composition
- Aerosols
- Mass-loss
- Variability

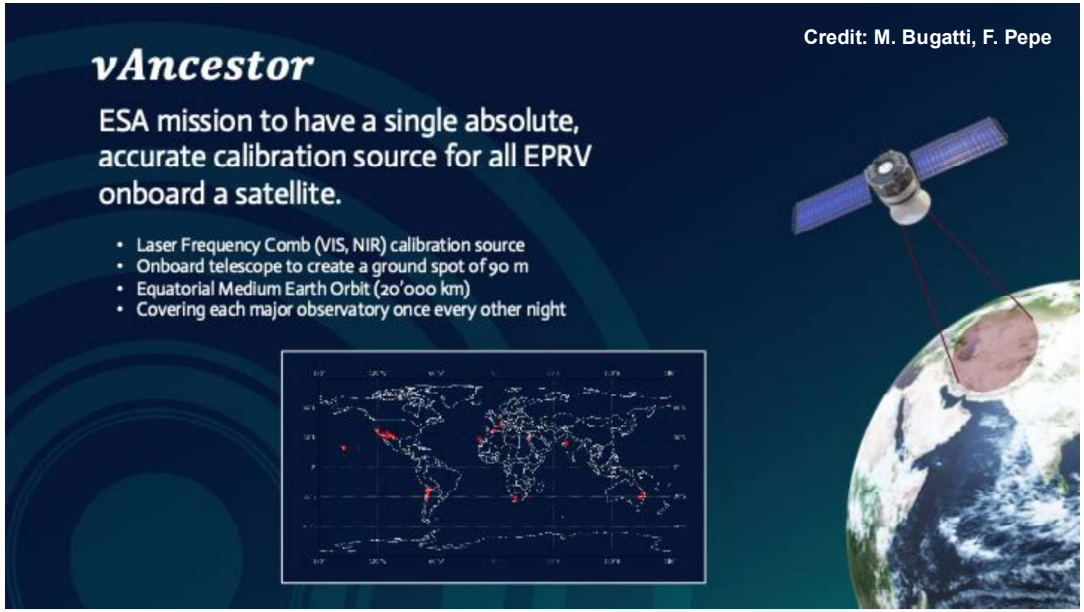
NUV & VIS Spec. (R~3000)
- 240 - 325 nm
- 450 - 820 nm

NIR Phot. (900 - 1700 nm)

Secondary surveys
- Stellar high-energy emission
- Solar system active bodies
- 25% open time



PIs: Luca Fossati (AT), David Ehrenreich (CH), Brice-Olivier Demory (CH)


vAncestor
ESA mission to have a single absolute, accurate calibration source for all EPRV onboard a satellite.
• Laser Frequency Comb (VIS, NIR) calibration source
• Onboard telescope to create a ground spot of 90 m
• Equatorial Medium Earth Orbit (20'000 km)
• Covering each major observatory once every other night
Credit: M. Bugatti, F. Pepe