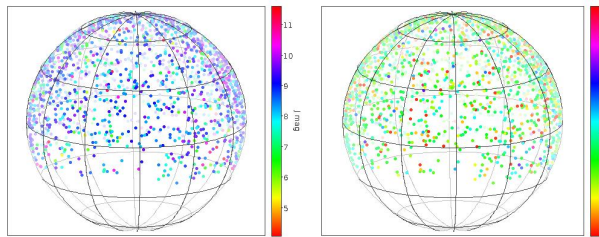
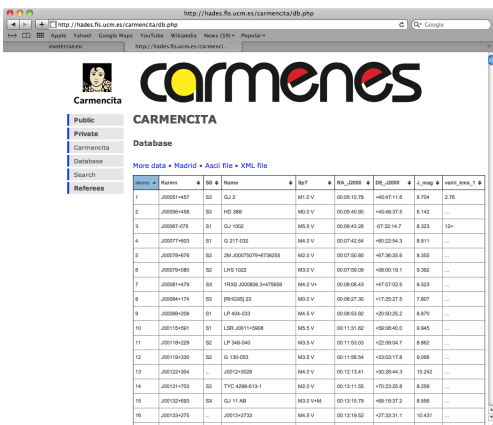


## RIA-AstroMadrid 2. Preparation of the best target sample from Spain and Chile

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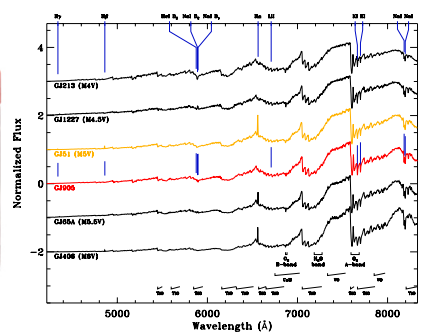
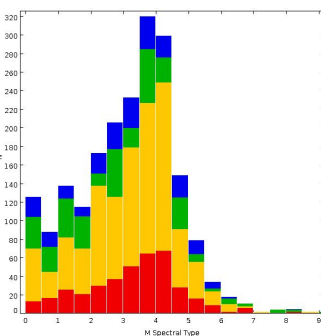
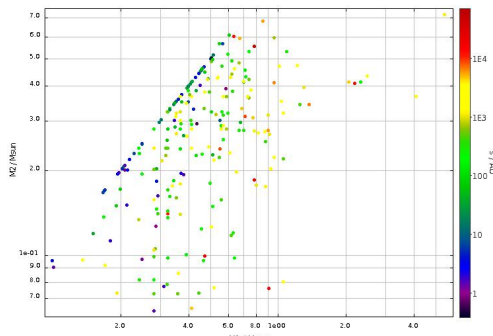
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**CARMENCITA**, the *CARMENES Cool star Information and daTa Archive*, is the M-dwarf database from where we will choose our best target sample. As part of our guaranteed time observations, about 300 late-type M dwarfs will be monitored by CARMENES from Calar Alto during over 600 nights. CARMENCITA currently catalogues about 2100 carefully-selected M dwarfs northern of  $\delta > -23$  deg. For each star, we tabulate dozens of parameters (accurate astrometry, spectral typing, photometry in 20 bands from the ultraviolet to the mid-infrared, rotational and radial velocities, X-ray count rates and hardness ratios, close and wide multiplicity data and many more) compiled from the literature or measured by us with new data. The private on-line catalogue, including preparatory science observations (i.e., high-resolution imaging, low- and high-resolution spectroscopy), will be eventually public as a CARMENES legacy.



SpT	Max. J [mag]
$\geq M6$ V	11.5
M5 V	11.0
M4 V	10.5
M3 V	10.0
M2 V	9.5
M1 V	9.0
M0 V	8.5

Clockwise, from top left: Capture of the password-protected CARMENCITA web portal; spatial location of our ~2100 stars colour-coded by *J* magnitude and spectral type; *J*-magnitude/spectral-type selection criteria; some low-resolution spectra obtained by us with CAFOS (poster 3); *Carmencita* cinnamon; distribution of stars as a function of SpT (red: brightest, yellow: intermediate, green: faintest; blue: known close binaries); mass-to-mass diagram of resolved binaries (red: widest, violet: closest). **Bottom**: the 131 columns/labels currently in our database.



Karmn | Comp | Flags | SS | Name | GJ | SpT | Ref01 | RA\_J2000 | DE\_J2000 | Ref02 | muRA\_masa-1 | emuRA\_masa-1 | muDE\_masa-1 | emuDE\_masa-1 | Ref03 | Vr\_kms-1 | eVr\_kms-1 | Ref04 | pi\_mas | epi\_mas | Ref05 | d\_pc | ed\_pc | Ref06 | U\_kms-1 | eU\_kms-1 | V\_kms-1 | eV\_kms-1 | W\_kms-1 | eW\_kms-1 | Ref07 | FUV\_mag | eFUV\_mag | NUV\_mag | eNUV\_mag | Ref08 | u\_mag | eu\_mag | Ref09 | BT\_mag | eBT\_mag | Ref10 | B\_mag | eB\_mag | Ref11 | g\_mag | eg\_mag | Ref12 | VT\_mag | eVT\_mag | Ref13 | V\_mag | eV\_mag | Ref14 | Ra\_mag | Ref15 | r\_mag | er\_mag | Ref16 | i\_mag | ei\_mag | Ref17 | z\_mag | ez\_mag | Ref18 | IN\_mag | Ref19 | J\_mag | eJ\_mag | H\_mag | eH\_mag | Ks\_mag | eKs\_mag | QFlag | Ref20 | W1\_mag | eW1\_mag | W2\_mag | eW2\_mag | W3\_mag | eW3\_mag | W4\_mag | eW4\_mag | Ref21 | WideCompanion | WideWDS | Widerho\_arcsec | eWiderho\_arcsec | Ref22 | WideCompanionSpT | WideCompanionJ\_mag | eWideCompanionFeH | Ref23 | CloseMultiplicity | CloseWDS | Closerho\_arcsec | eCloserho\_arcsec | Ref24 | pEWHalpA\_A | Ref25 | 1RXS | CRT\_s-1 | eCRT\_s-1 | HR1 | eHR1 | HR2 | eHR2 | Ref26 | vsini\_kms-1 | evsini\_kms-1 | Ref27 | P\_d | Ref28 | TiO5 | CaH2 | Ref29 | Flare | Ref30 | MV\_mag | Ref31 | RV | Planet | Ref32 | LoRes\_spectrum | HiRes\_spectrum | LoRes\_imaging | HiRes\_imaging | Origin | Class | Notes

