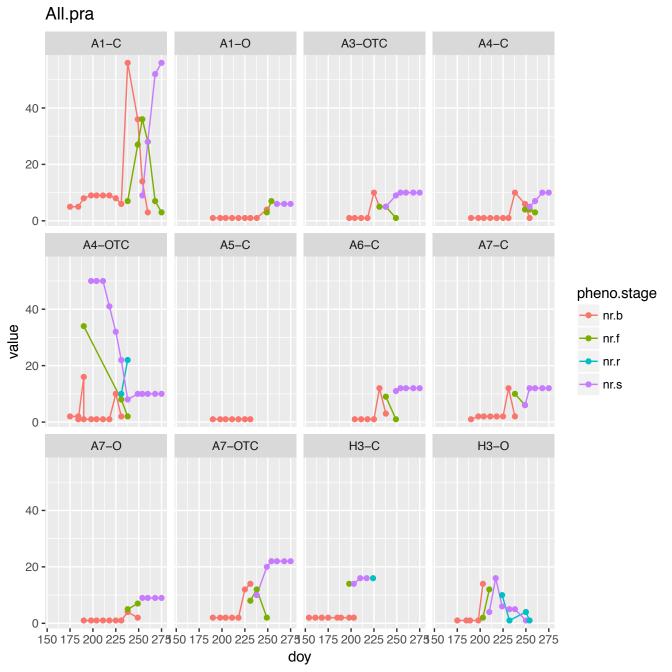
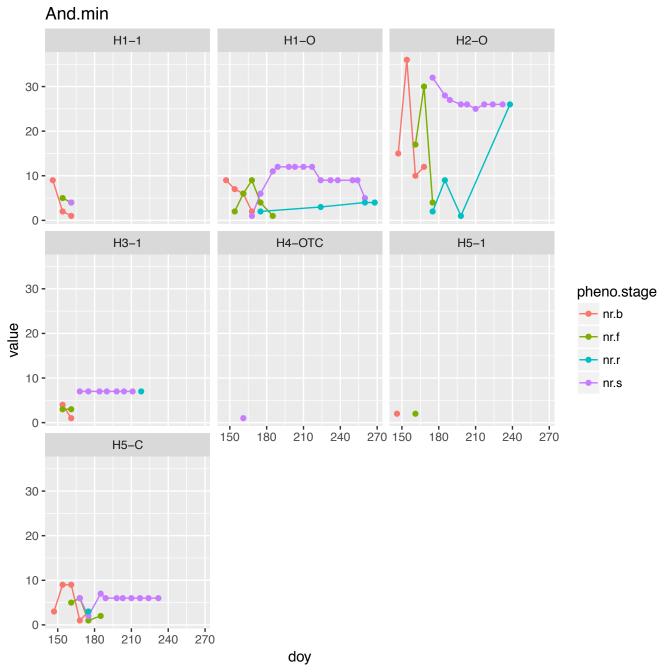
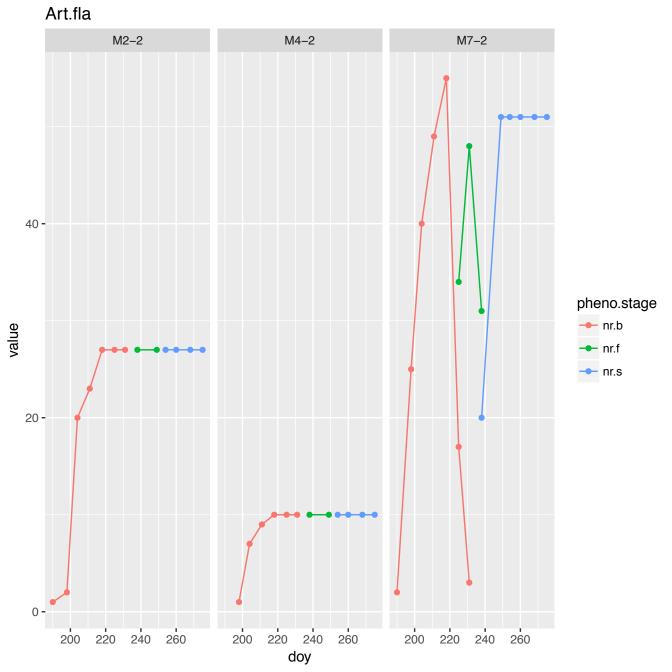


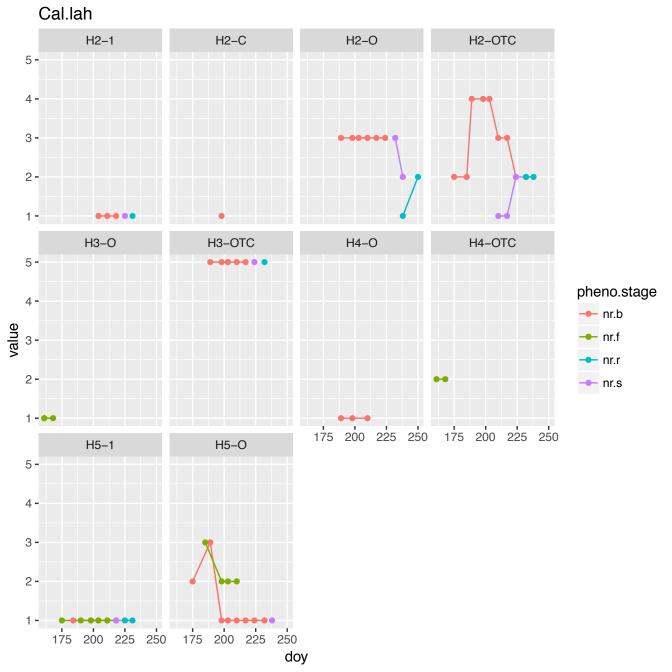
Ale.pau H1-OTC H3-O 8 -6 -2pheno.stage nr.b value nr.f H5-C H5-O nr.r 8 nr.s 6 -4 -2-180 220 180 160 200 240 160 200 220 240 doy

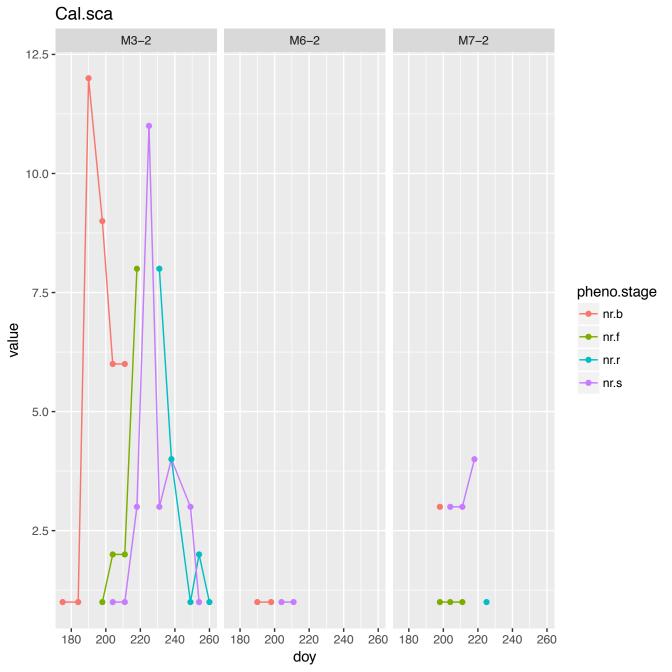






Bro.sin A4-C A5-O A1-O 10.0 -7.5 **-**5.0 -2.5 pheno.stage nr.b value 190 210 230 250 nr.f A6-C A7-OTC nr.r 10.0 nr.s 7.5 **-**5.0 -2.5 -250 190 190 210 230 210 230 250 doy

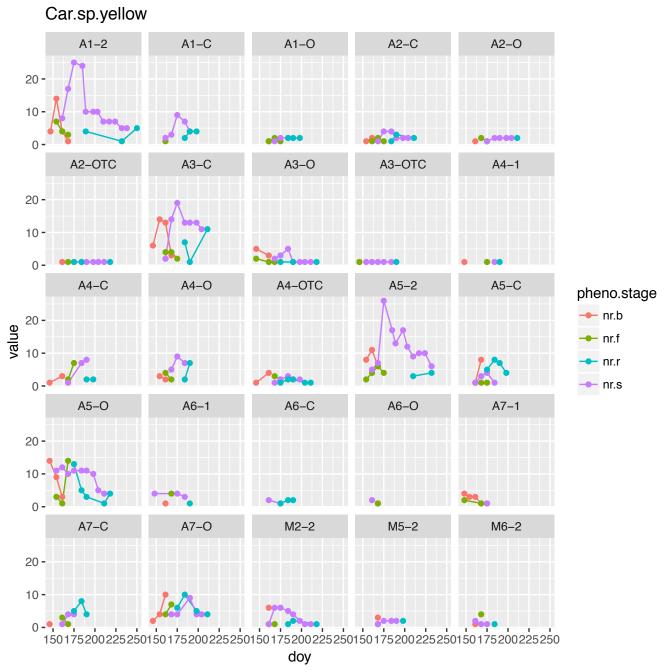


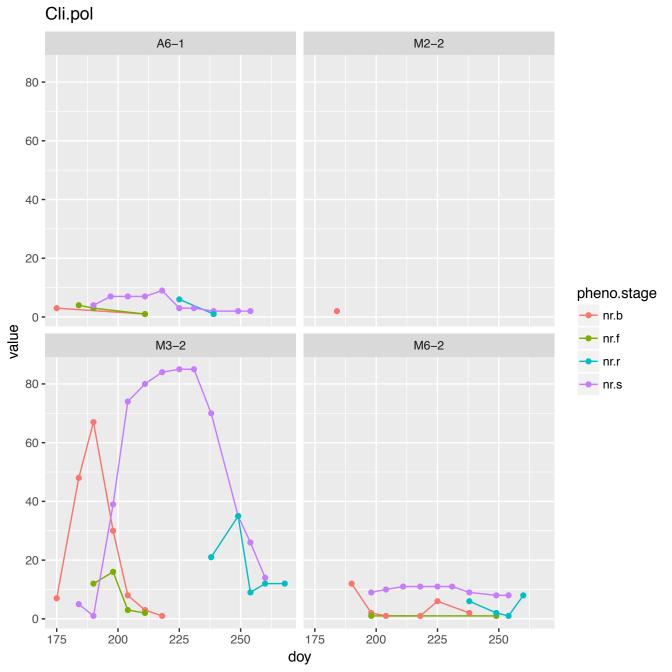


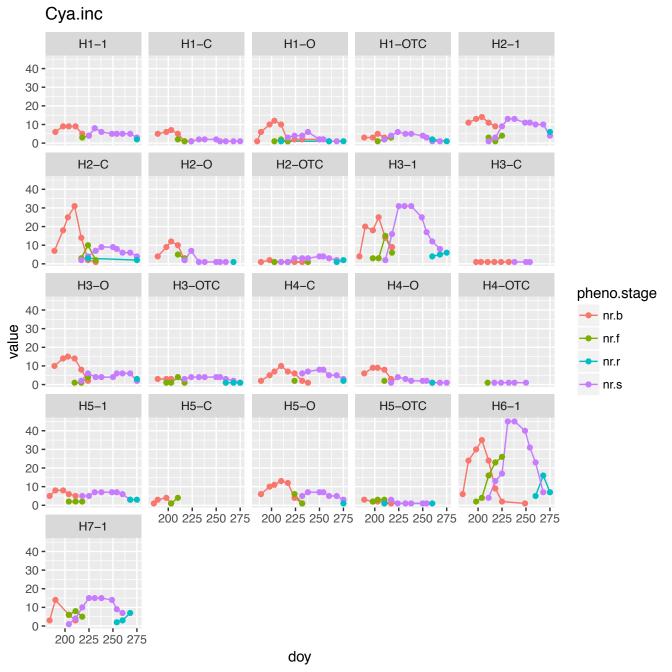
## Car.sp.black A1-1 A1-C A2-1 A2-C A2-OTC 40 -30 -20 -10 -0 -A3-2 A4-C A3-O A4-1 A4-2 40 -30 -20 -10-0 -A5-C A4-O A5-1 A6-1 A6-C pheno.stage 40 nr.b value 20 nr.f nr.r 10-0 nr.s A6-O A7-OTC M2-2 M1-2 M3-2 40 -30 -20 -10-0 -150 180 210 240 M4-2 M5-2 M6-2 M7-2 40 -30 -20 -10 -0-, 150 180 210 240 150 180 210 240 150 180 210 240 150 180 210 240 doy

Car.sp.black.big A1-2 10-8 pheno.stage → nr.b nr.f nr.r 6 nr.s 4 -160 180 220 200 doy

Car.sp.middle H1-0 H2-C H2-O Н3-С 25 -20 -15**-**10-5 -0 -H4-C H5-O H5-1 H5-C 25 -20 pheno.stage nr.b value - 01 - 01 nr.f nr.r nr.s 5 -0 -150 175 200 225 250150 175 200 225 250 H6-1 H7-1 25 -20 -15**-**10-5 **-**0 - 150 175 200 225 250150 175 200 225 250 doy

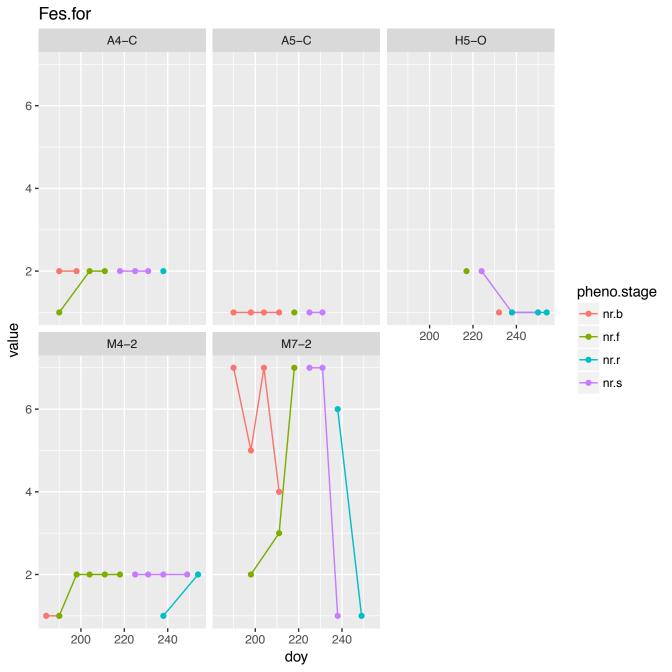




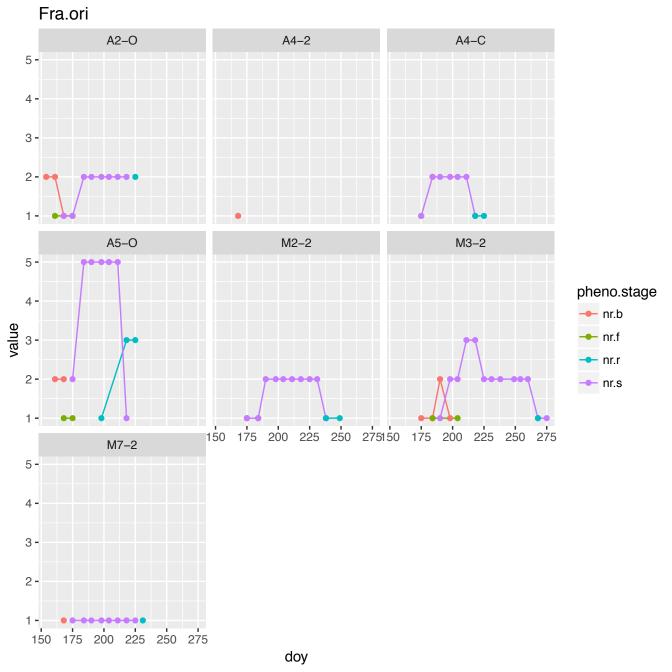


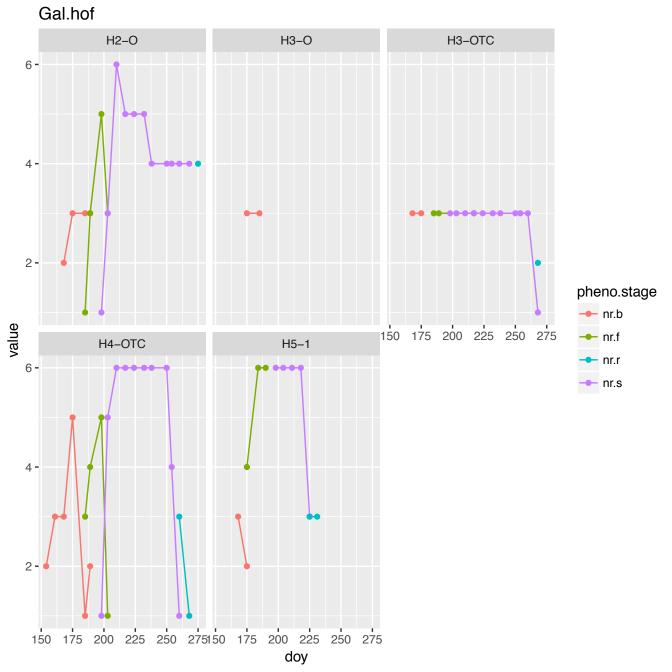
Epi.fan A1-2 A5-1 A7-O 5 -4 -3 -2pheno.stage nr.b value nr.f A7-OTC M6-2 M4-2 nr.r 5 -→ nr.s 4 -3 -2 -240 200 220 220 260 220 240 260 200 240 260 200 doy

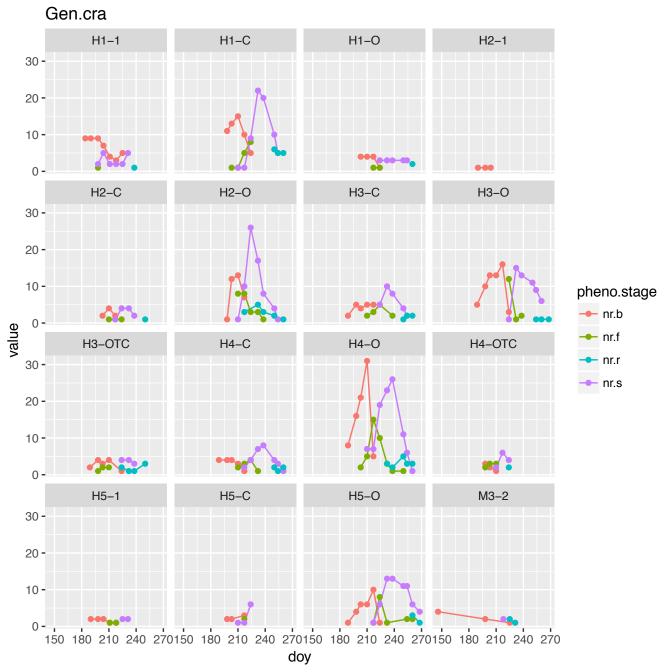
Eup.L H4-O H2-O H3-O 25 **-**20 -15 pheno.stage nr.b nr.f nr.r nr.s 10-5 **-**doy



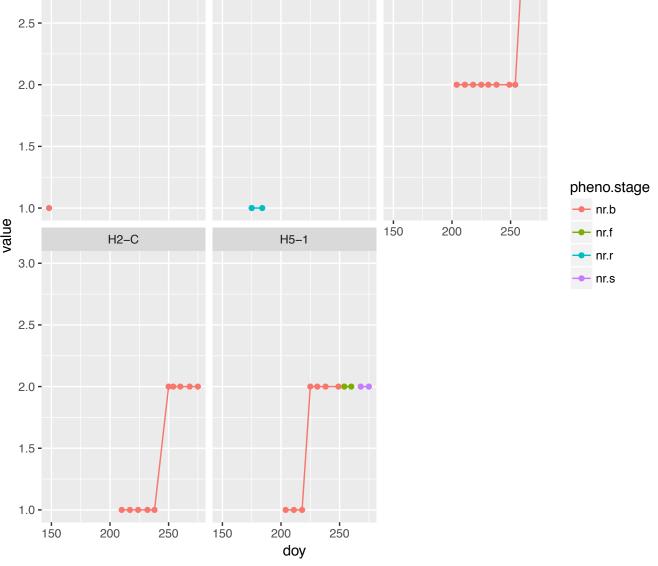
Fes.spp A1-O A3-O H1-C H1-O 30 -20 -10-0 -H2-OTC H1-OTC Н3-С H3-O 30 pheno.stage value value nr.b 🗕 nr.f nr.r 10 nr.s 0 -175 200 225 250 175 200 225 250 H4-OTC H4-C 30 -20 -10-250 250 175 200 225 doy

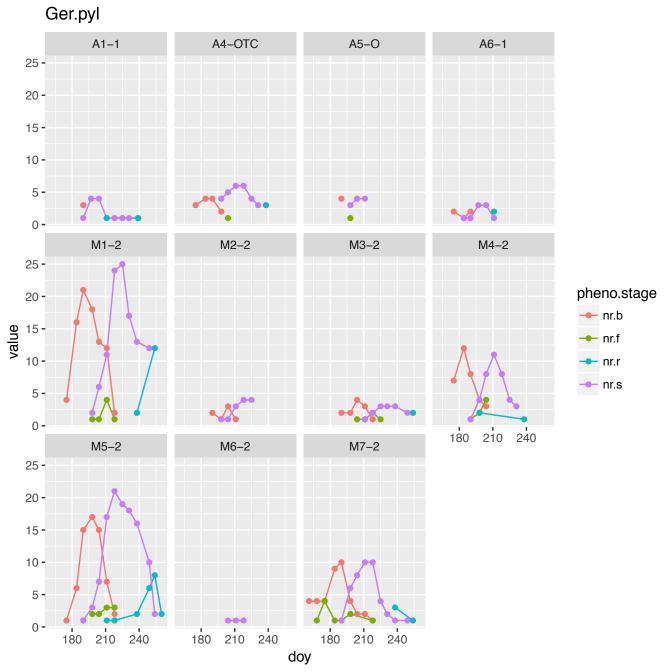


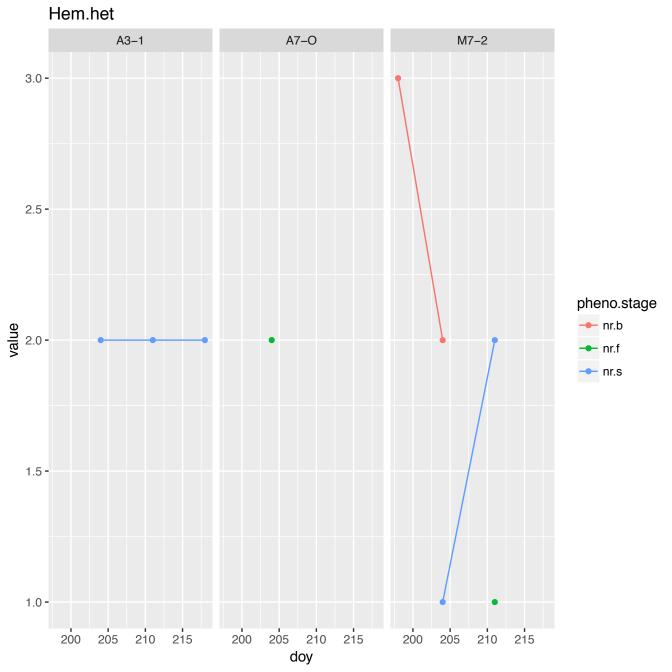


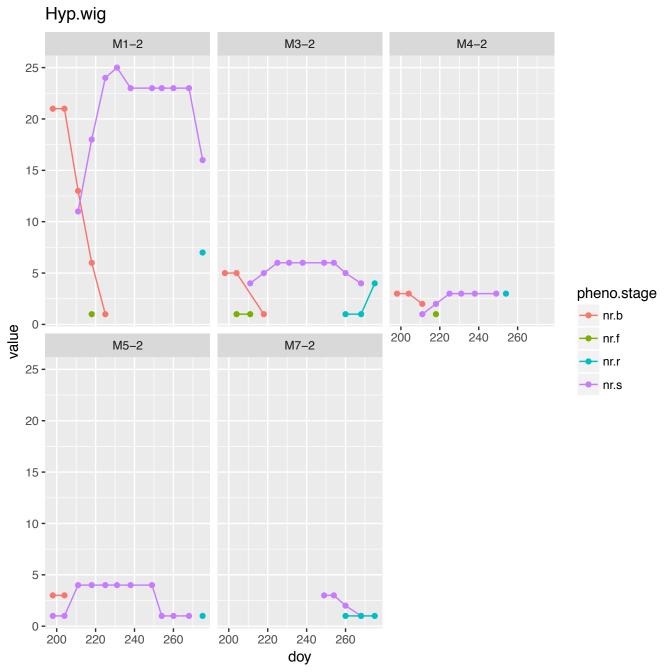


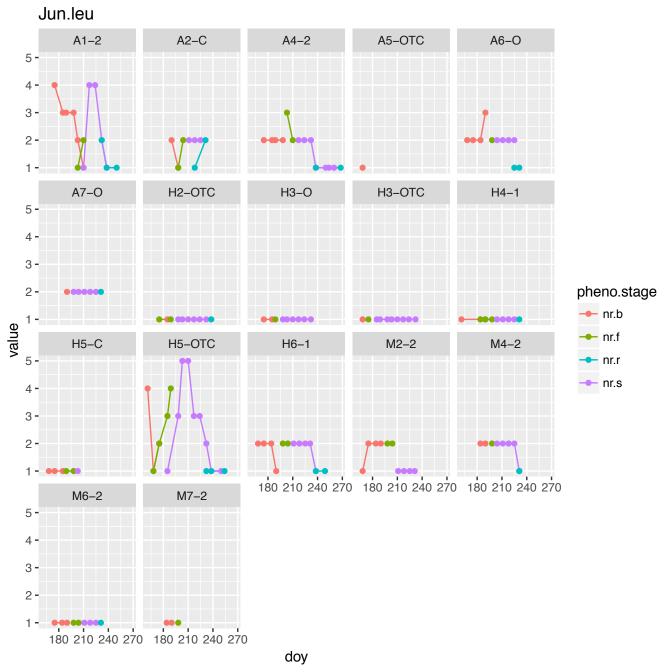
Gen.spp A1-1 A7-OTC H2-1 3.0 -2.5 -2.0 -1.5 pheno.stage 1.0 nr.b 150 200 250 nr.f H2-C H5-1 nr.r 3.0 -→ nr.s 2.5 -2.0 -

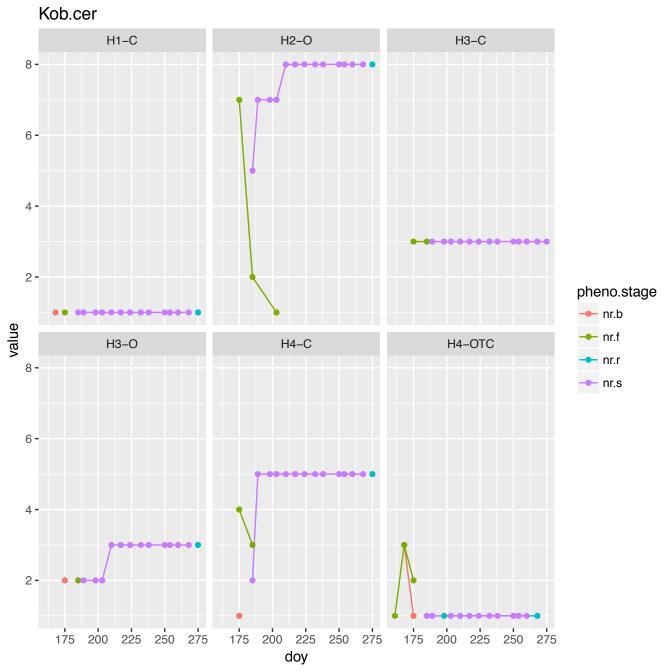


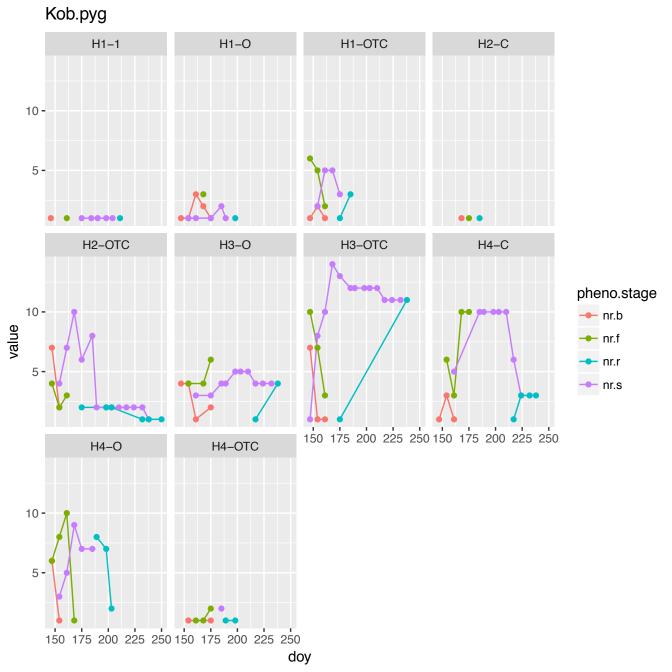


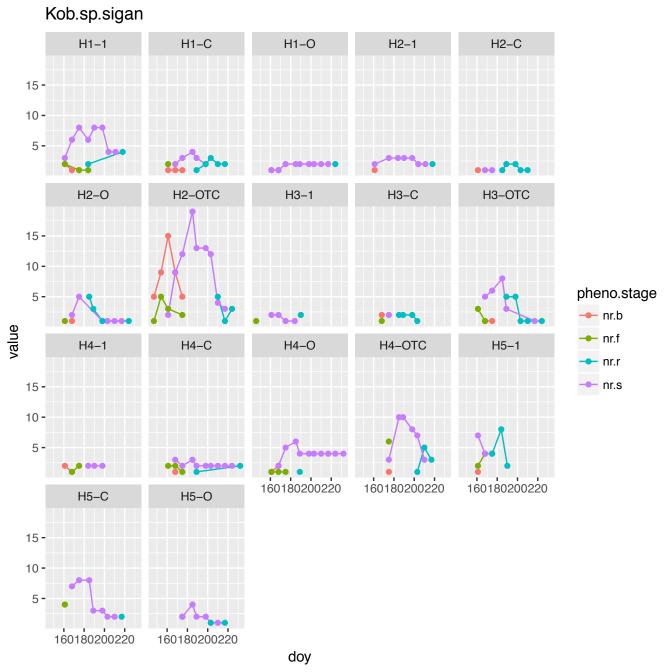






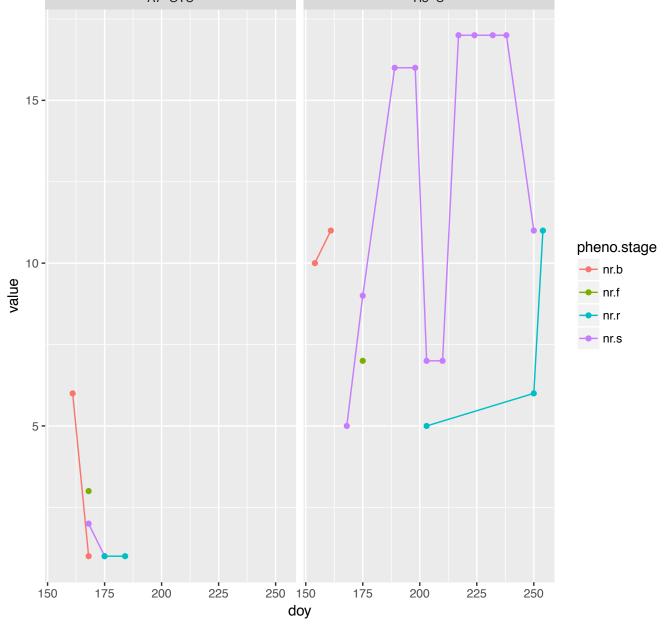






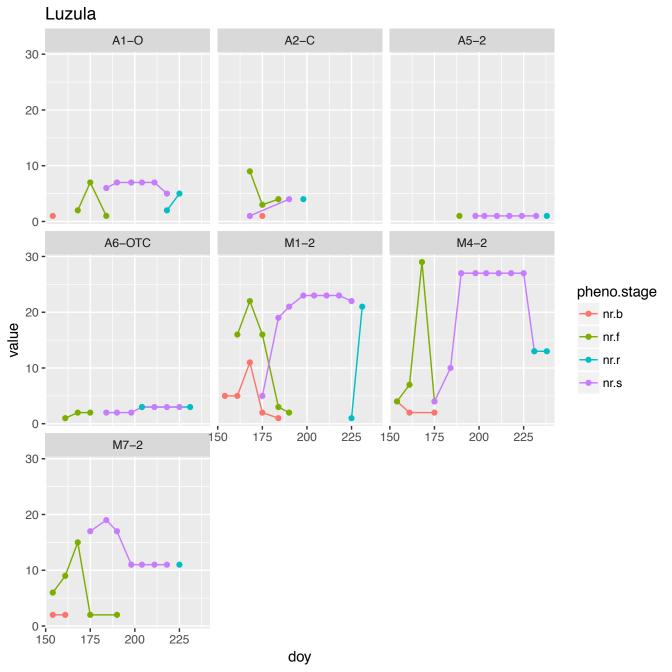
Kob.sp.small H1-OTC Н3-С 5 -4 -3 -2pheno.stage nr.b value nr.f H4-1 H5-OTC nr.r 5 nr.s 4 -3 -2 -1 -160 180 180 200 220 200 220 160 doy

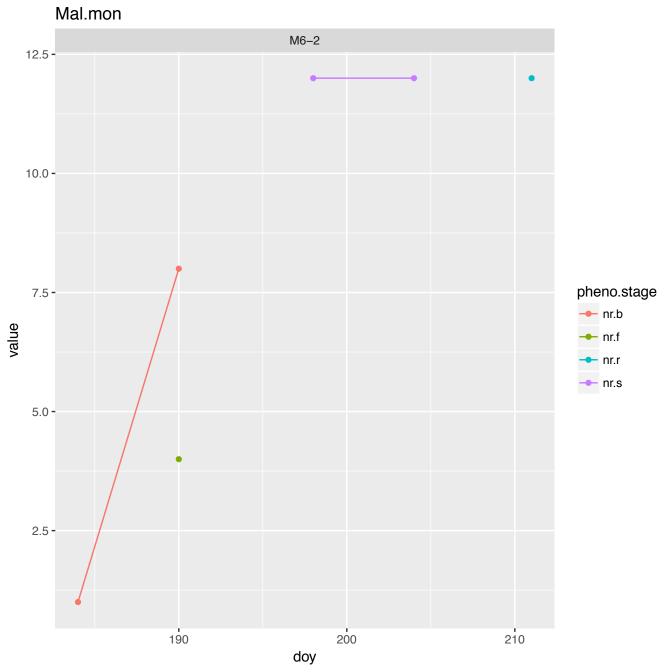
Kob.sp.yellow H5-C A7-OTC 15pheno.stage 10nr.b nr.f nr.r



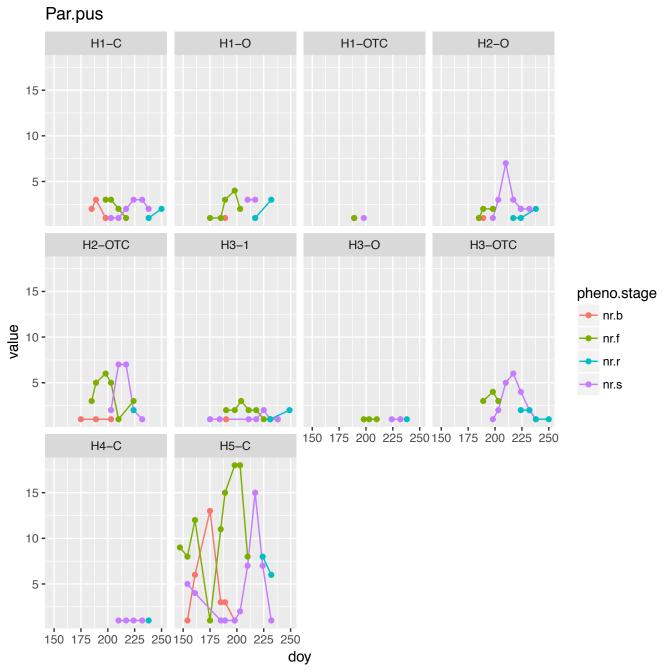
Lig.sca A1-O A1-OTC 3.0 -2.5 -2.0 -1.5 pheno.stage 1.0 nr.b value nr.f A5-C A5-OTC nr.r 3.0 nr.s 2.5 -2.0 -1.5 -1.0 -200 225 200 225 250 250 doy

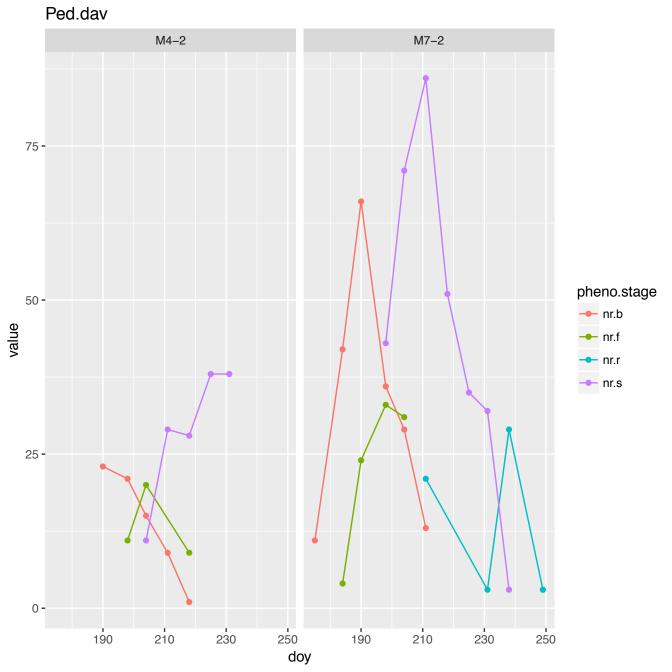
Lom.car H3-O Н3-ОТС H1-O 6 -4 -2pheno.stage → nr.b value 200 220 260 240 H4-O H5-O nr.f 6 nr.s 4 -2-200 220 240 200 220 240 260 260 doy

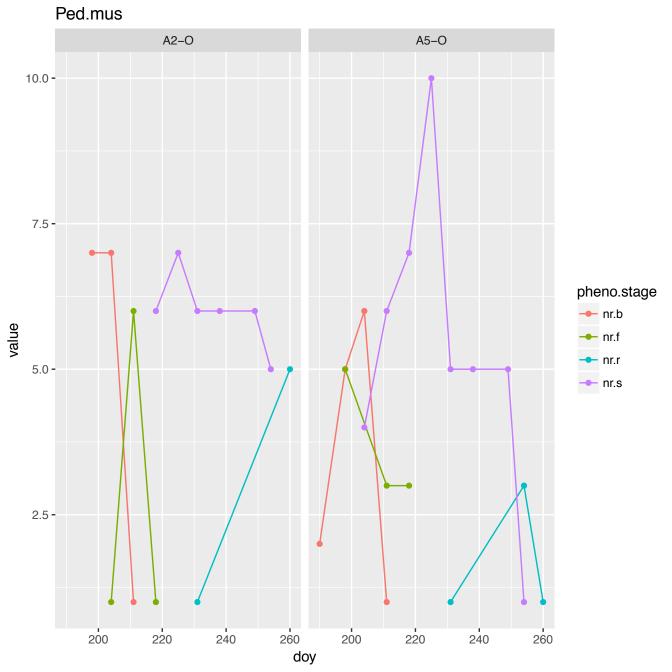


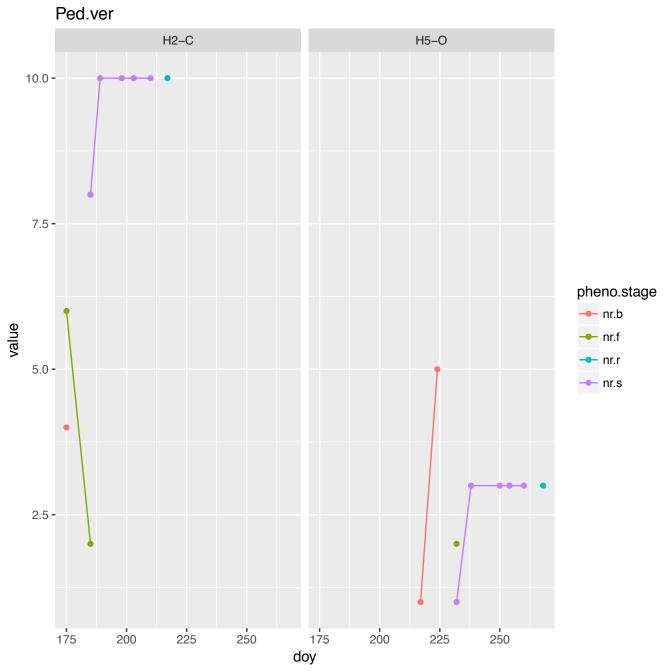


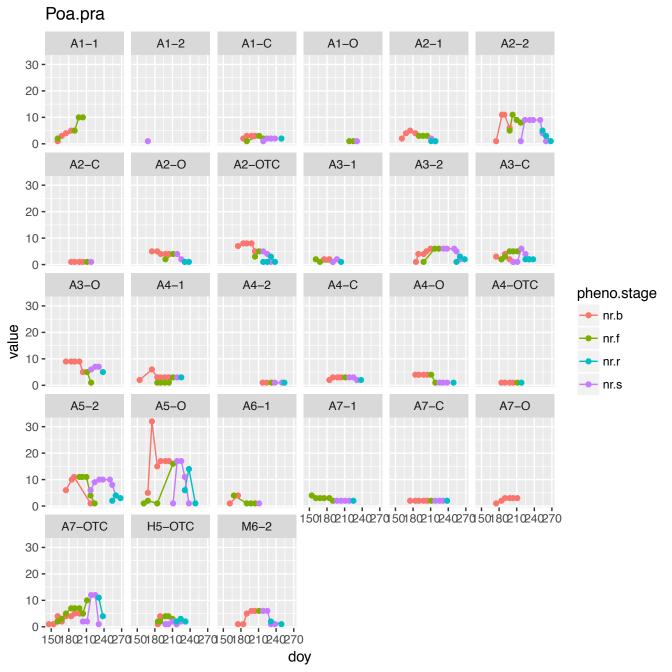
Oxy.yun Н3-С H4-OTC H3-1 30 pheno.stage **→** nr.b nr.f nr.r nr.s 10 -180 180 220 200 240 240 200 180 220 200 220 240 doy



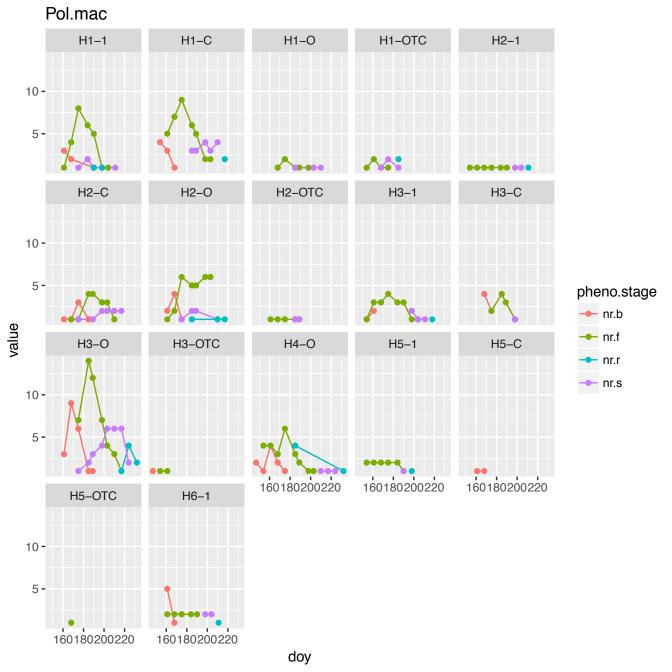


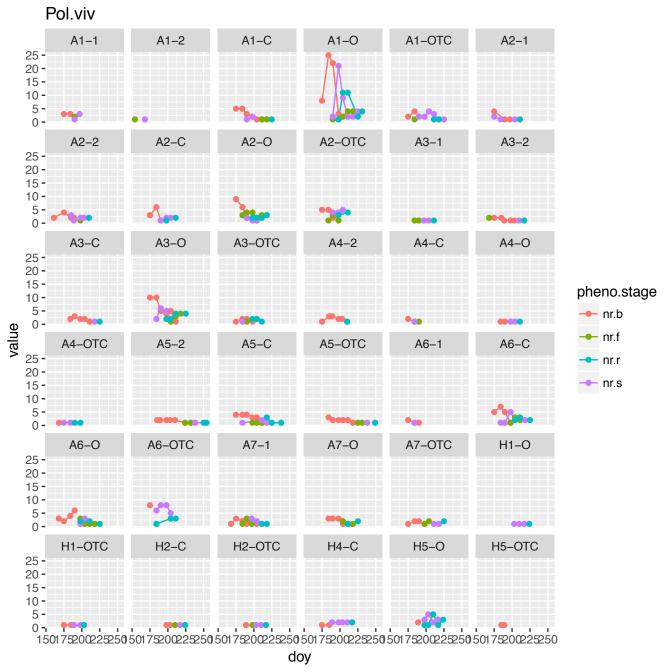


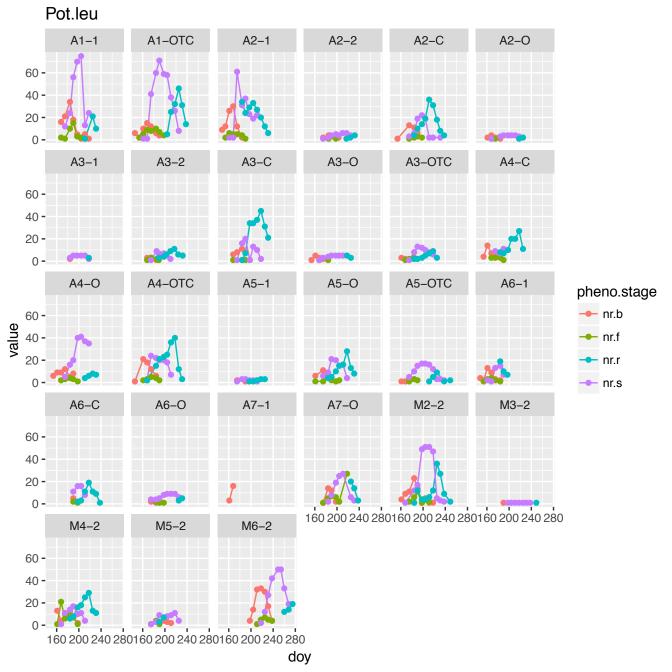


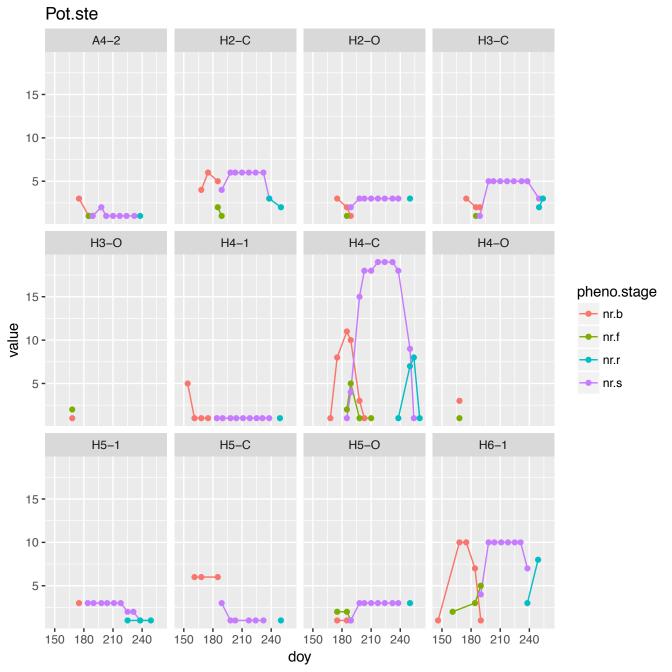


Pol.cya A1-C A2-OTC A5-2 6 -4 pheno.stage **→** nr.b nr.f nr.r nr.s 2-210 250 230 250 210 230 270 210 230 270 250 270 doy









Ran.tan A2-2 A3-2 A1-2 12.5 -10.0 -7.5 -5.0 -2.5 -A4-1 A5-2 A6-OTC 12.5 **-**10.0 pheno.stage → nr.b 7.5 nr.f 5.0 nr.r nr.s 2.5 -180 200 220 240 Н3-С H4-OTC 12.5 **-**10.0 -7.5 -5.0 -2.5 -200 200 220 240 220 240 180 180 doy

Sau.spp A4-O A1-OTC H2-OTC 3.0 -2.5 -2.0 -1.5 -1.0 -H4-O H4-OTC H5-C 3.0 pheno.stage 2.5 nr.b - 0.2 **alue** nr.f nr.r 1.5 nr.s 1.0 -175 275 175 200 225 250 275 250 200 225 M2-2 3.0 -2.5 -2.0 -1.5 -1.0 -275 225 250 200 175 doy

Swe.mac M2-2 M3-2 M4-2 9 -6 **-**3 pheno.stage value nr.b 220 240 260 M6-2 M7-2 nr.f nr.s 9 -6 -3 -220 240 220 240 260 260 doy

Tan.tat H2-O H3-1 H1-1 4 -3 -2-Н3-С H3-O Н3-ОТС 4 pheno.stage nr.b 3 nr.f nr.r 2nr.s 175 250 225 200 H5-1 H5-O 4 -3 -2-200 200 250 225 225 250 175 175 doy

Tar.lug A4-C A4-O A2-OTC 5 **-**4 -3 -2-1 -A5-C A5-OTC A6-OTC 5 pheno.stage 4 nr.b value - E nr.f nr.r 2nr.s 1-180 200 220 240 A7-C A7-O 5 -4 -3 -2 -1 -220 220 200 240 180 200 240 180

doy

