Composite Parameter Fit

Thresh	a	$\log M_{min}$	α	σ	logM0	logM1	χ^2/dof	BIC	AIC
M < -21	$0.695^{+0.161}_{-0.526}$	$12.695^{+0.113}_{-0.037}$	$0.316^{+0.244}_{-0.129}$	$1.010^{+0.117}_{-0.137}$	$13.090^{+0.204}_{-0.353}$	$13.846^{+0.076}_{-0.131}$	2.44	29.56	43.45
M < -20	$0.015^{+0.496}_{-0.041}$	$11.889^{+0.107}_{-0.001}$	$0.053^{+0.401}_{-0.008}$	$0.976^{+0.055}_{-0.064}$	$12.505^{+0.184}_{-0.309}$	$13.080^{+0.093}_{-0.073}$	2.43	29.54	43.43
M < -19	$0.786^{+0.042}_{0.634}$	$11.519^{+1.241}_{-0.008}$	$0.219^{+1.852}_{-0.014}$	$1.032^{+0.002}_{-0.191}$	$10.042^{+1.481}_{-0.225}$	$12.797^{+0.019}_{-0.456}$	1.88	26.21	40.10

Table 1: Best fit parameters for composite model. All fits were started with an initial a value of 0.5

Mvir

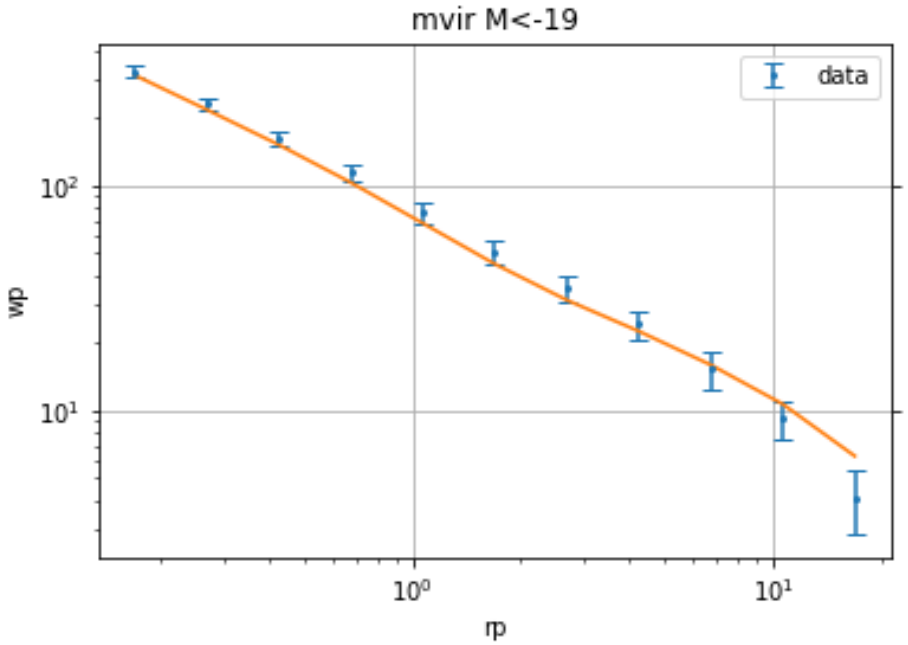
Threshold	$\log M_{min}$	α	σ	logM0	logM1	χ^2/dof	BIC	AIC
M < -21	$12.697^{+0.096}_{-0.031}$	$0.296^{+0.221}_{-0.128}$	$1.027^{+0.116}_{-0.082}$	$13.065^{+0.152}_{-0.338}$	$13.879^{+0.077}_{-0.065}$	2.09	27.07	34.64
M < -20	$11.888^{+0.076}_{-8.767e-6}$	$0.024^{+0.358}_{-0.026}$	$1.014^{+0.053}_{-0.035}$	$12.293^{+0.182}_{-0.035}$	$13.184^{+0.059]}_{-0.400}$	3.01	33.54	41.11
M < -19	$11.516^{+0.385}_{-0.011}$	$0.199^{+0.777}_{-0.048}$	$1.02^{+0.01}_{-0.069}$	$10.018^{+1.459}_{-0.025}$	$12.794^{+0.008}_{-0.096}$	1.63	23.83	31.41

Table 2: Best fit parameters determined via averaging procedure, including the averaged χ^2/dof

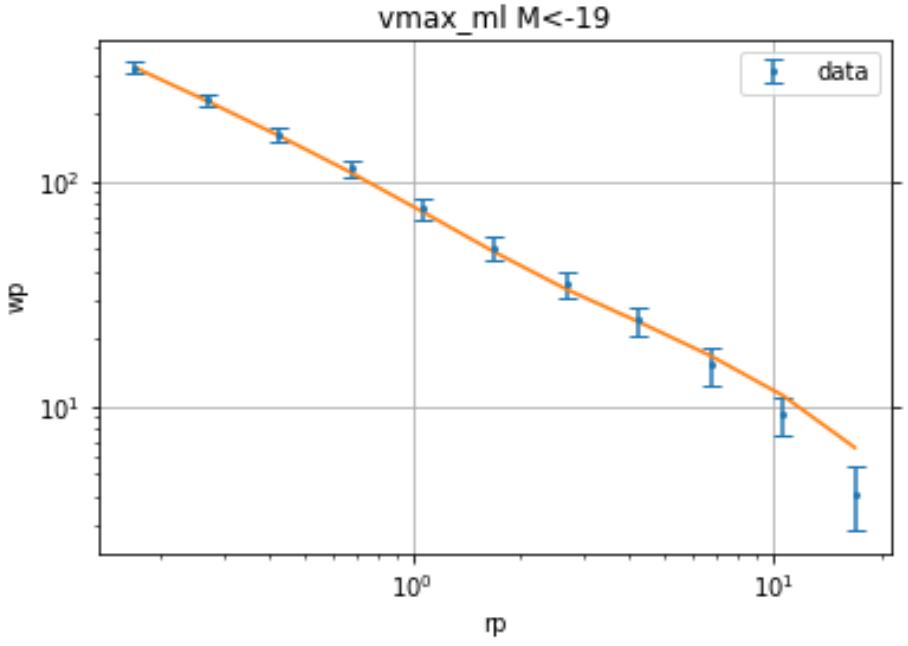
Vmax

Threshold	$\log M_{min}$	α	σ	logM0	logM1	χ^2/dof	BIC	AIC
M < -21	$2.484^{+0.042}_{-0.021}$	$0.140^{0.069}_{-0.055}$	$2.959^{+0.440}_{-0.176}$	$2.619^{+0.026}_{-0.135}$	$2.817^{+0.034}_{-0.015}$	2.54	30.25	37.83
M < -20	$2.213^{+0.041}_{-4.790e-5}$	$0.023^{0.135}_{-0.001}$	$2.980^{+0.155}_{-0.183}$	$2.429^{+0.056}_{-0.075}$	$2.588^{+0.021}_{-0.027}$	2.12	27.28	34.85
M < -19	$2.156^{+0.233}_{-0.041}$	$0.203^{+0.358}_{-0.082}$	$3.186^{+0.015}_{-0.418}$	$1.73^{+0.385}_{-0.034}$	$2.488^{+0.002}_{-0.086}$	1.76	24.74	32.32

Table 3: Best fit parameters determined via averaging procedure, including the averaged χ^2/dof

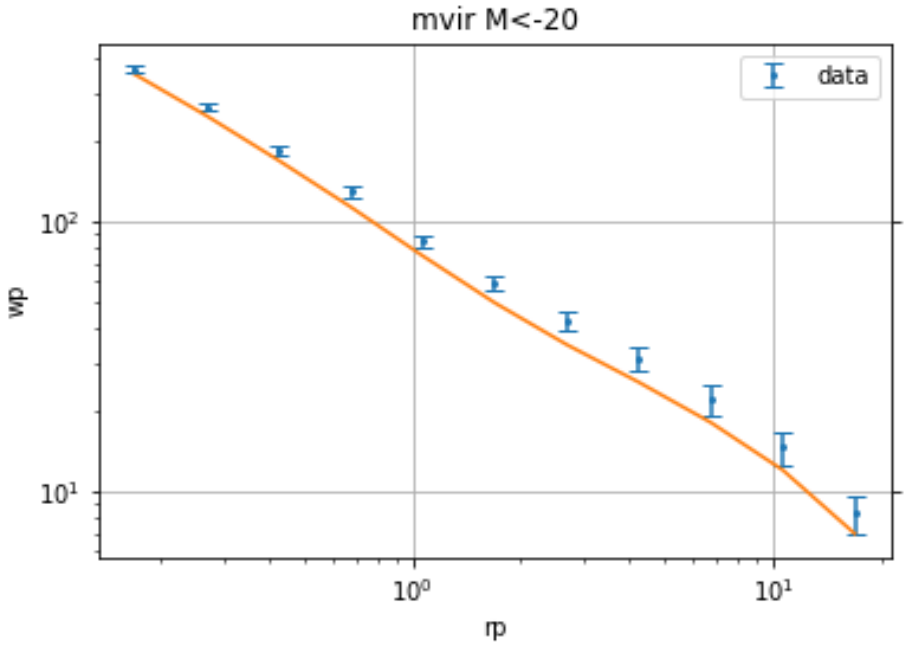


(a)

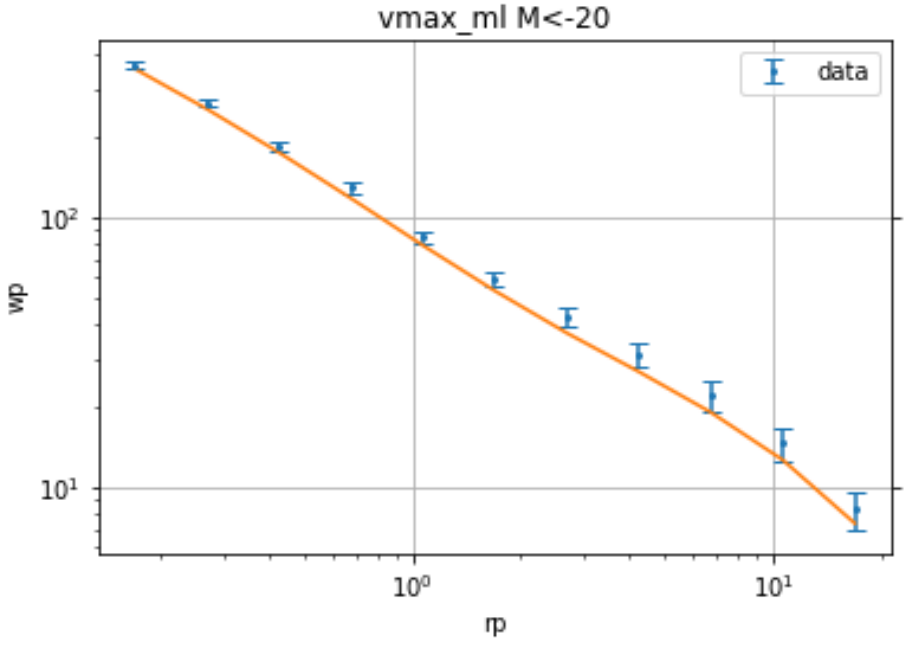


(b)

Figure 1: M<-19

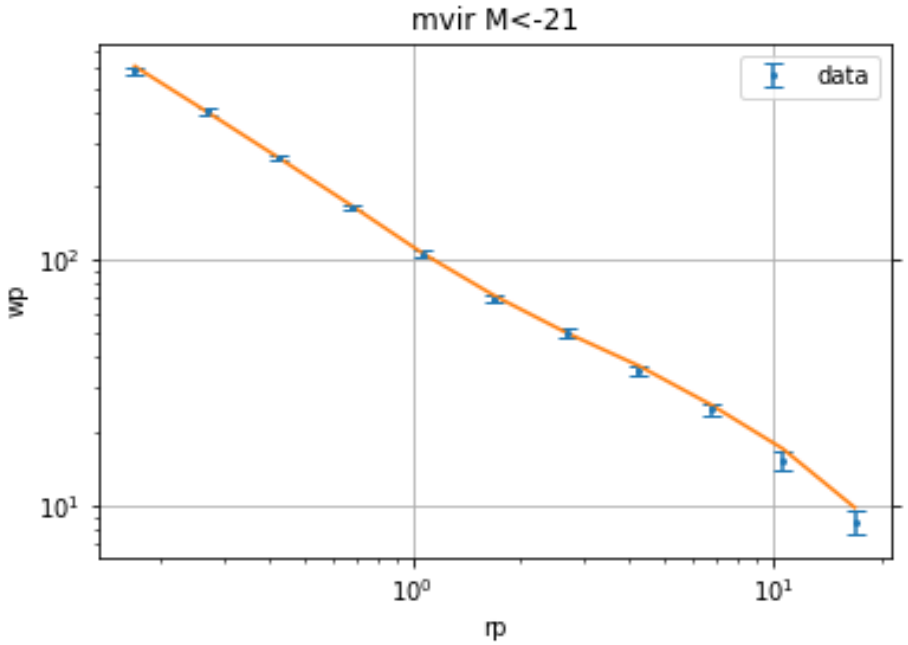


(a)

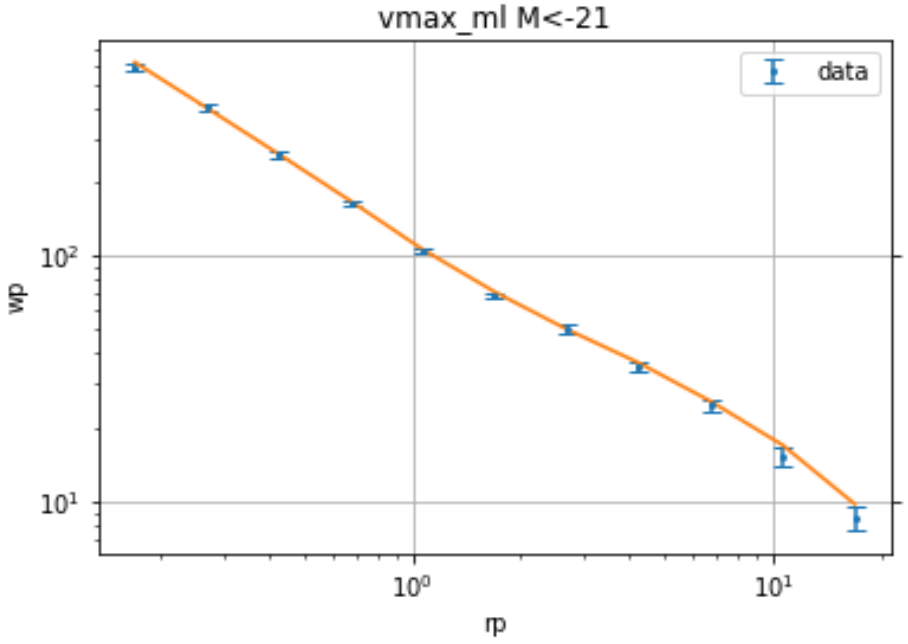


(b)

Figure 2: M<-20

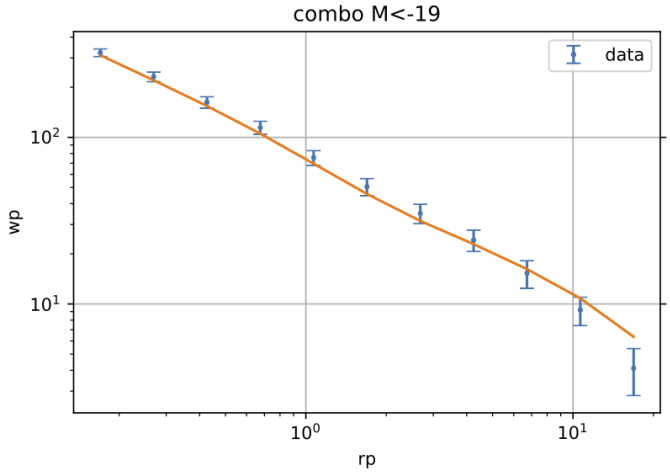


(a)

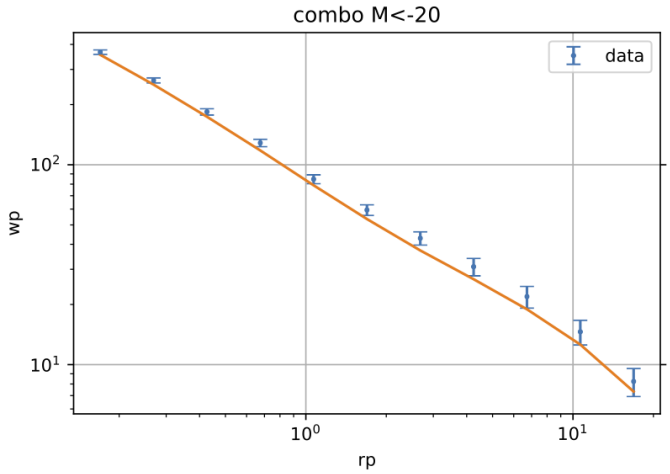


(b)

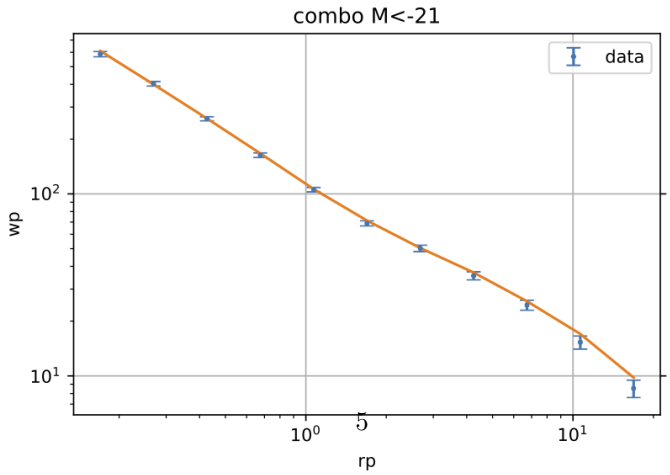
Figure 3: M<-21



(a)



(b)



(c)

Figure 4: Composite fits