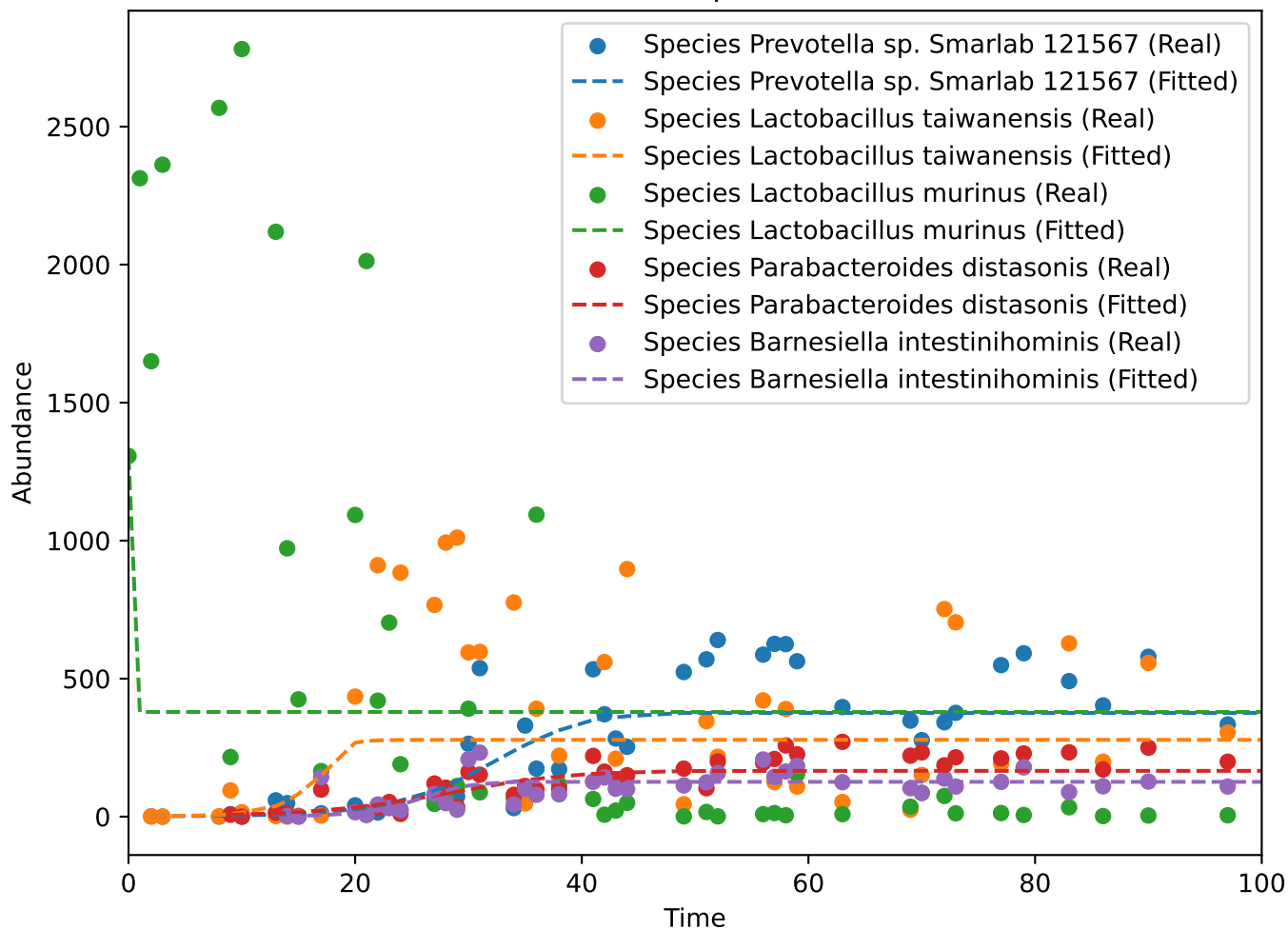
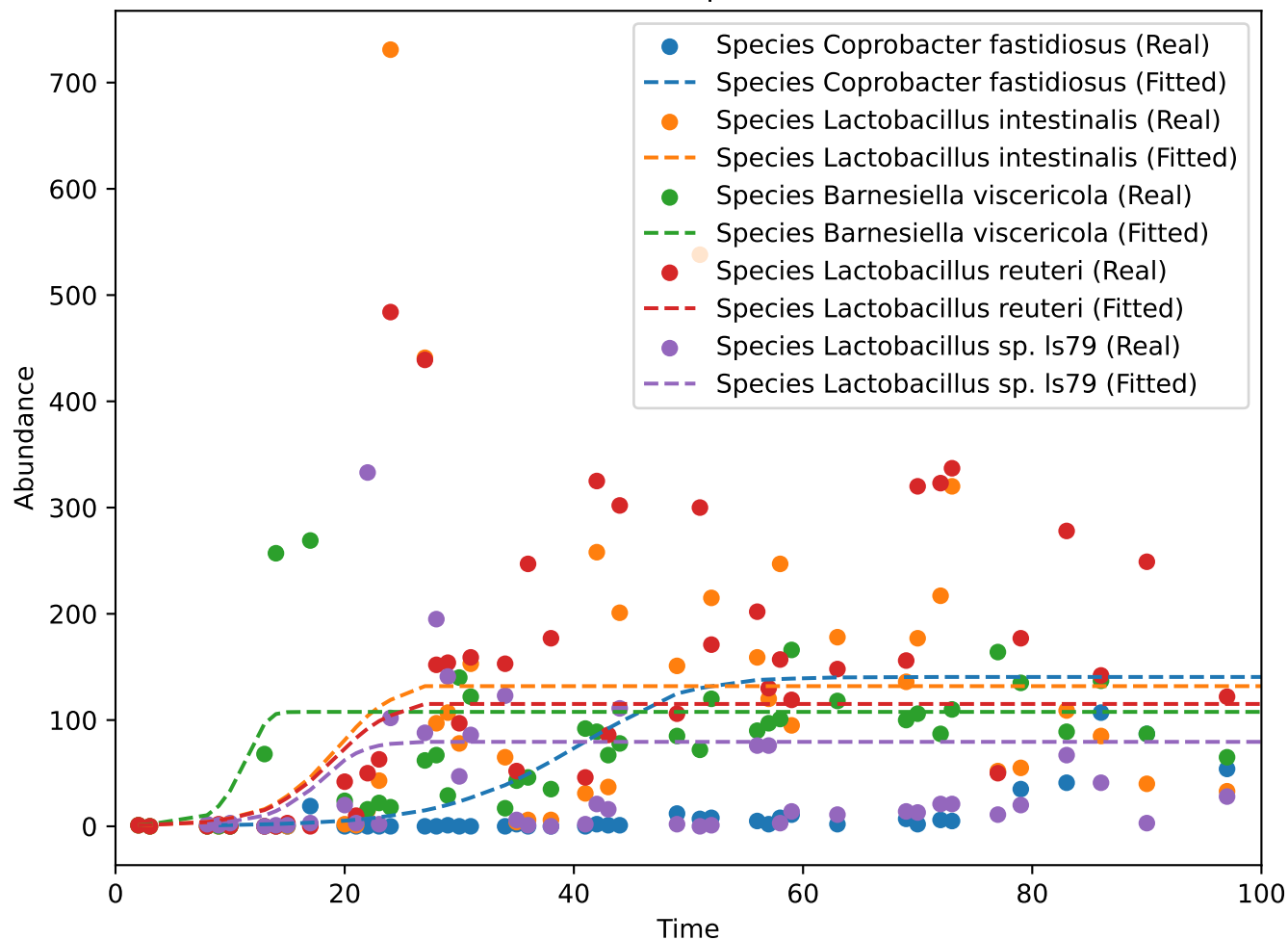
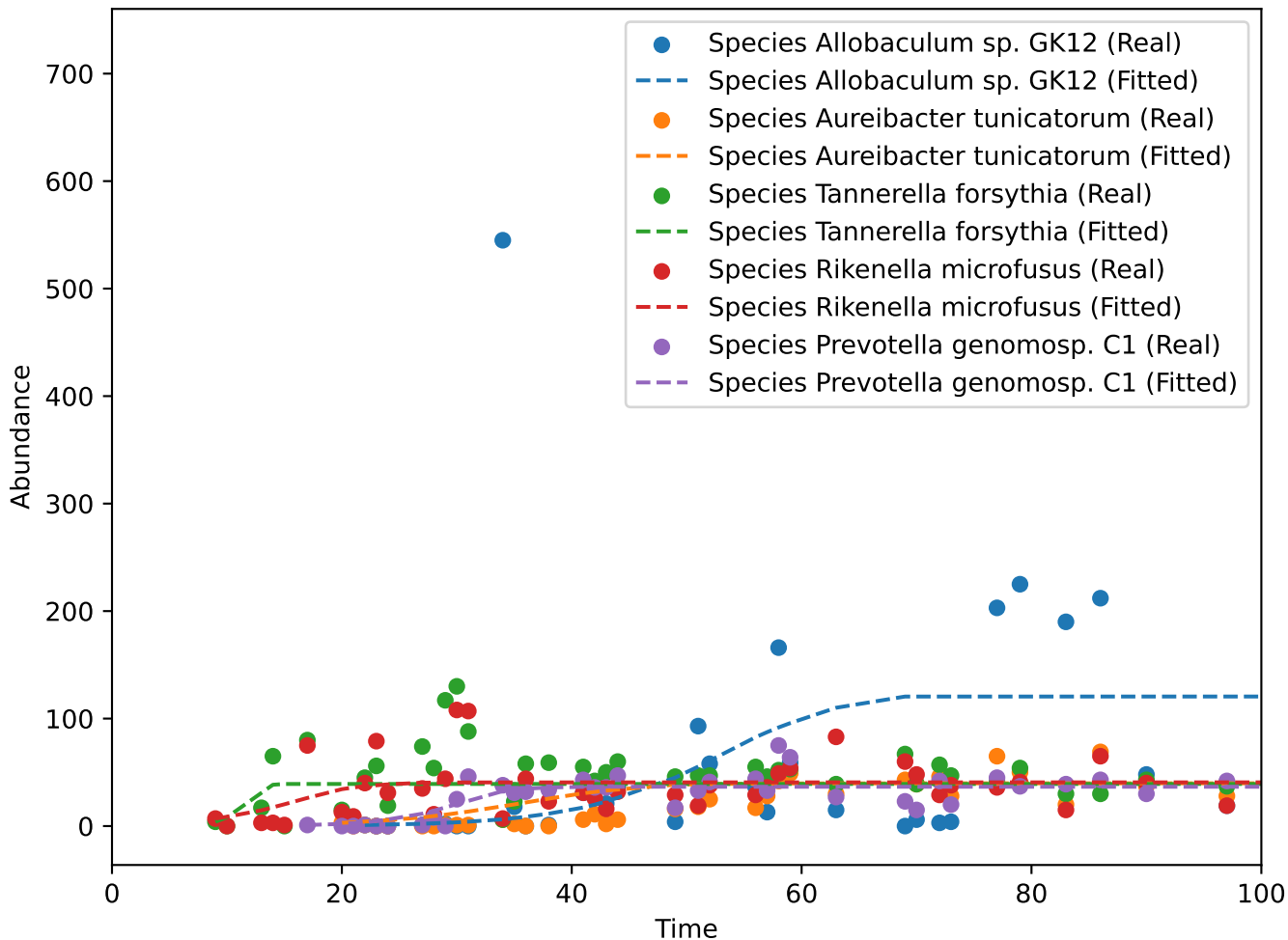


Mouse 3 - Species Fit

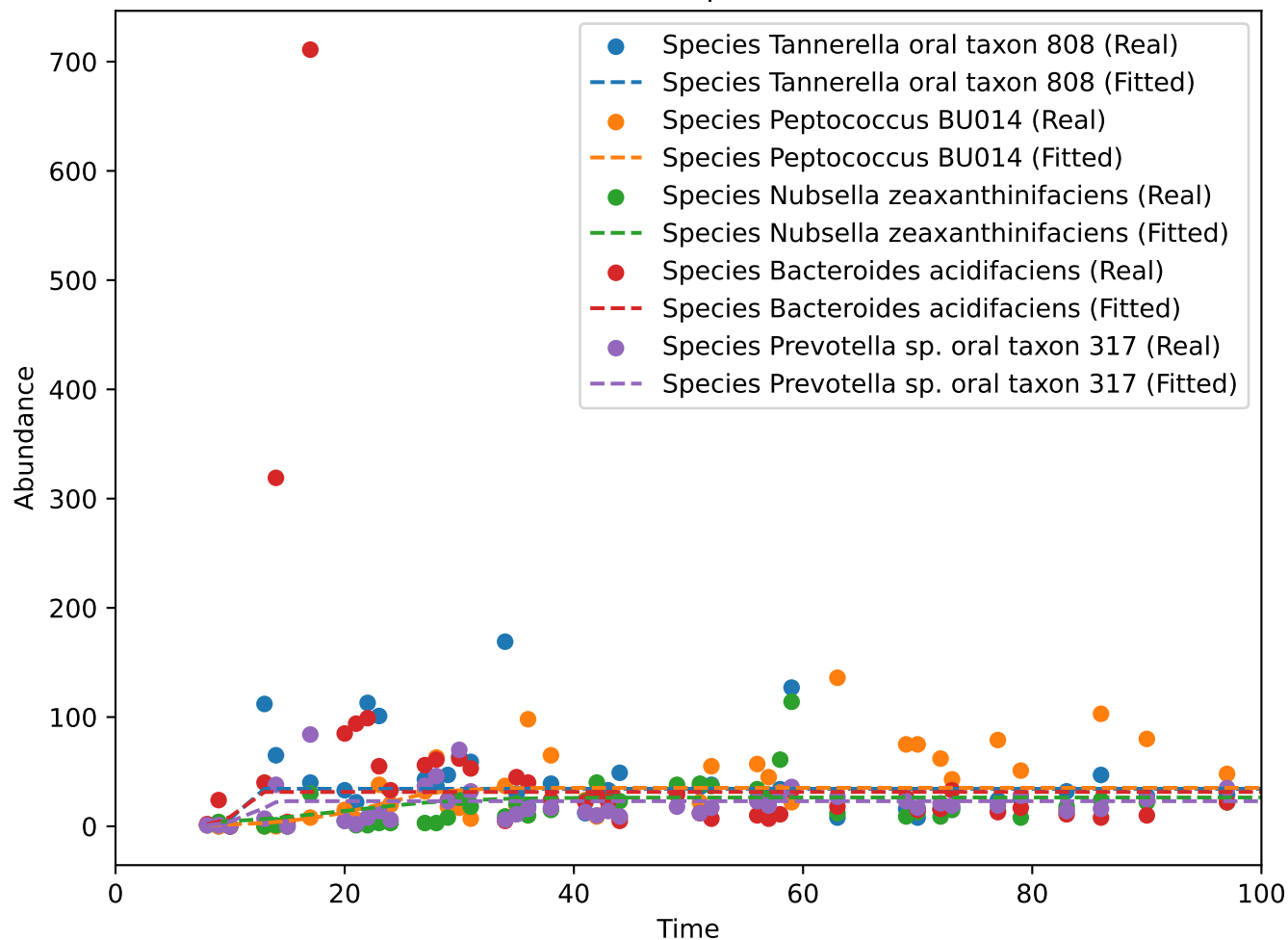


Mouse 3 - Species Fit

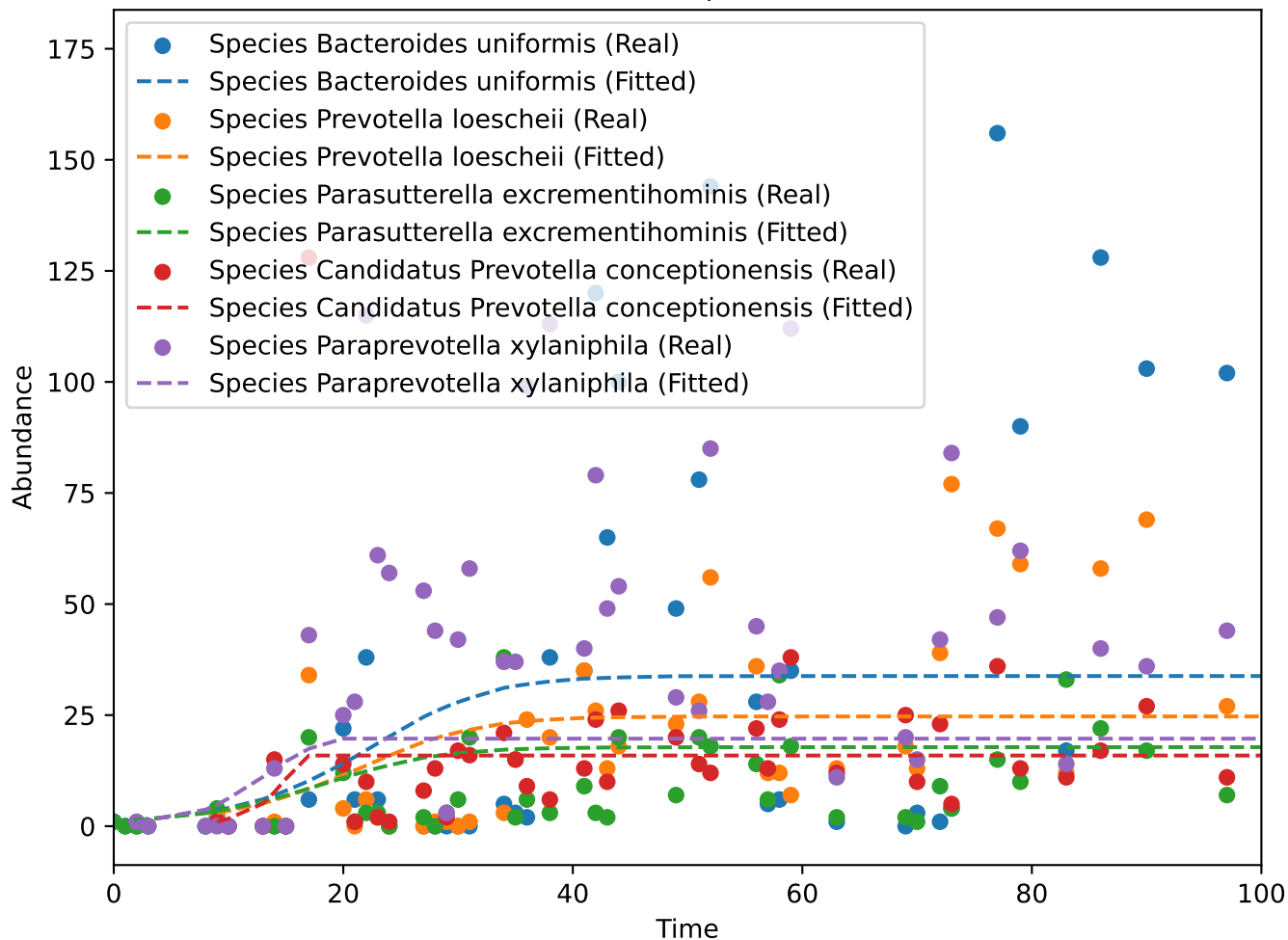




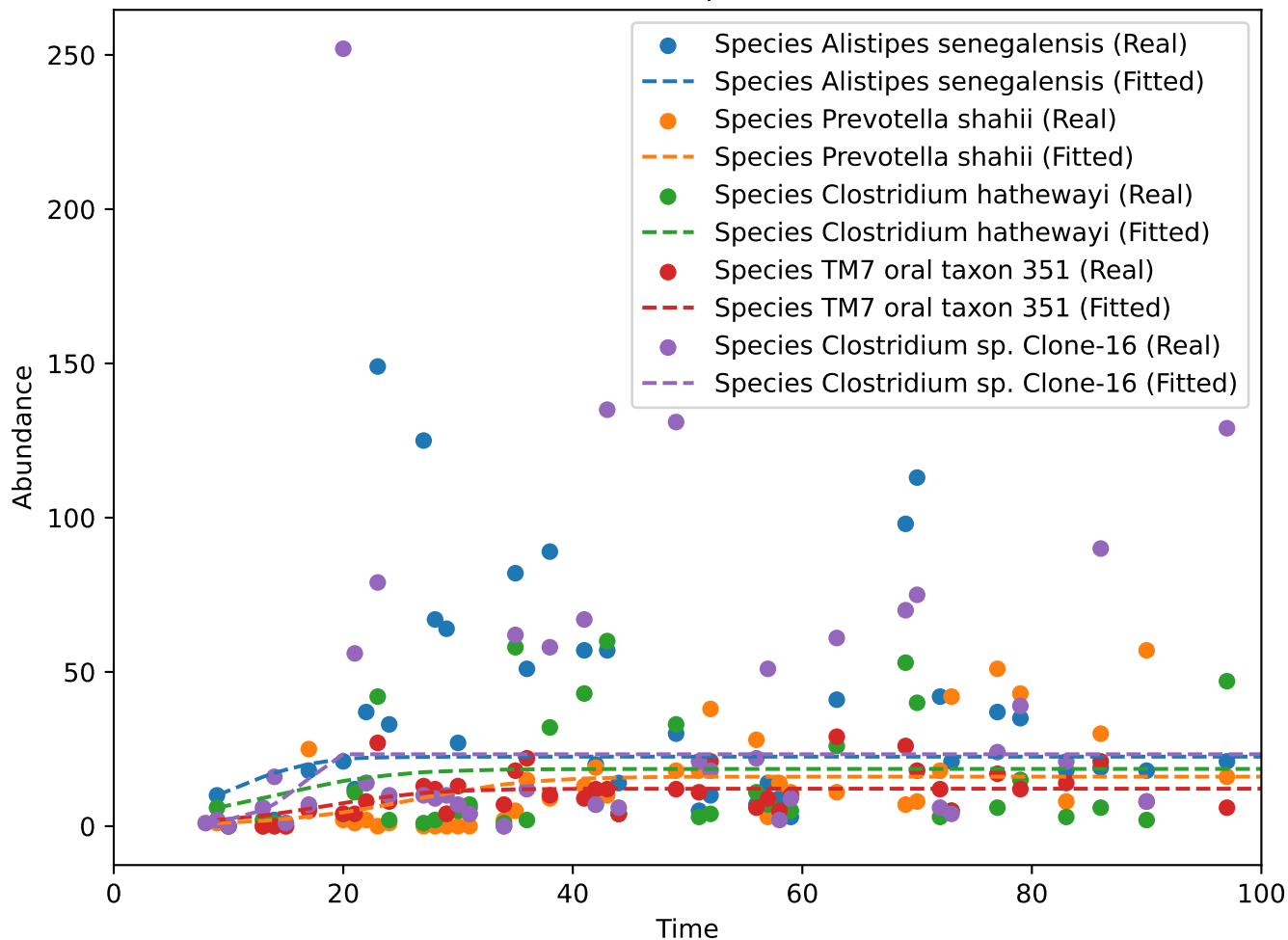
Mouse 3 - Species Fit



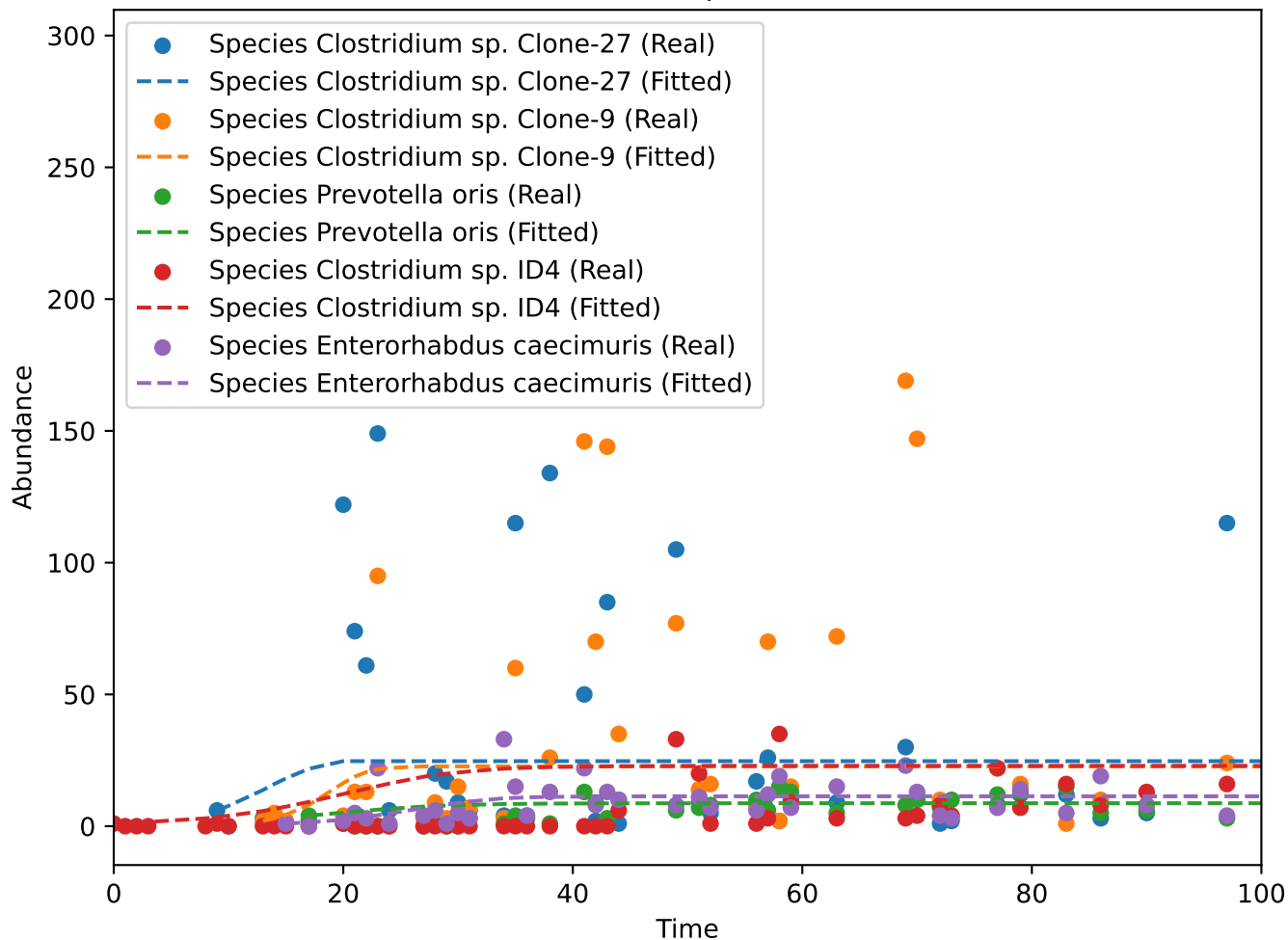
Mouse 3 - Species Fit



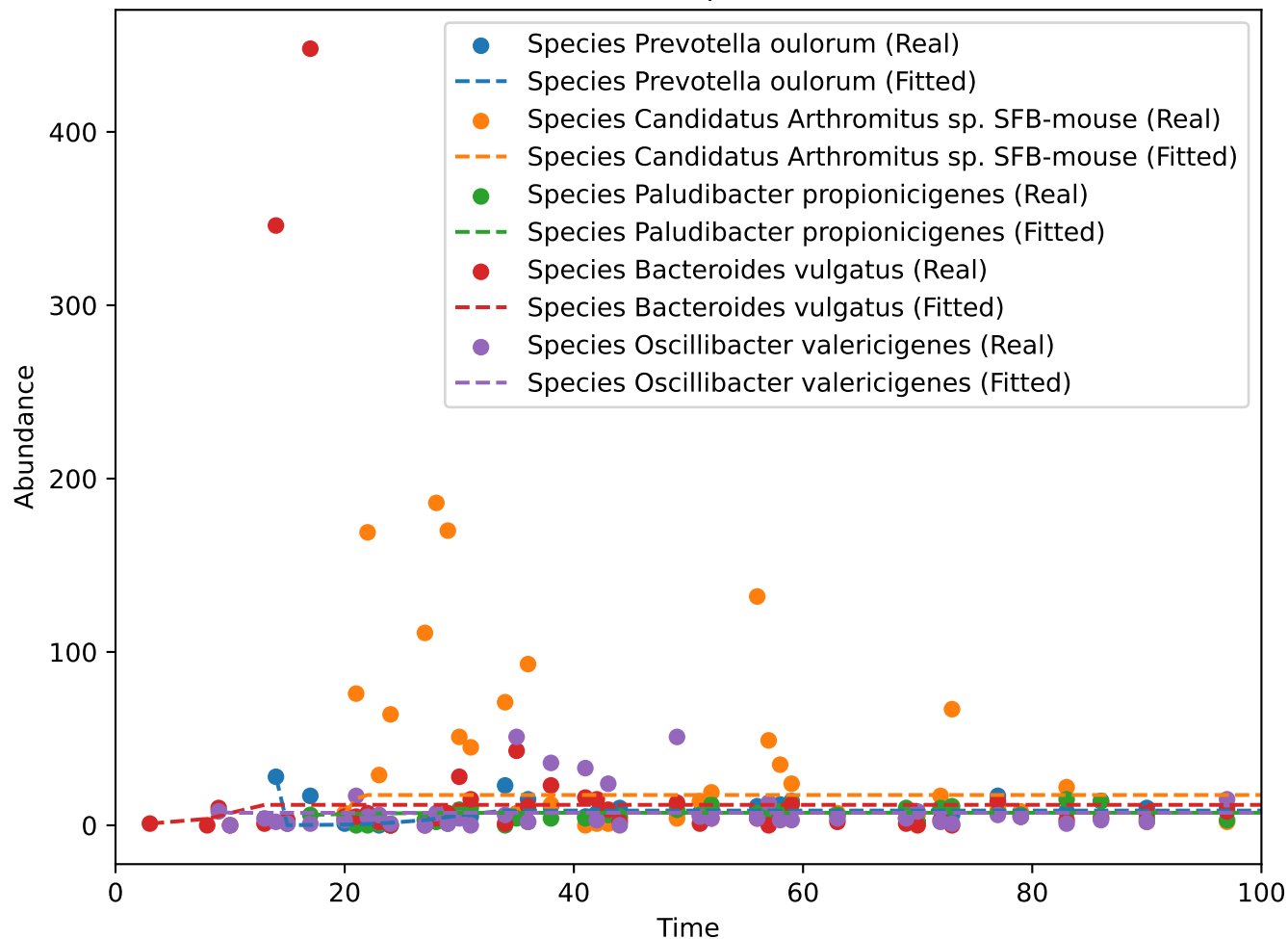
Mouse 3 - Species Fit



Mouse 3 - Species Fit

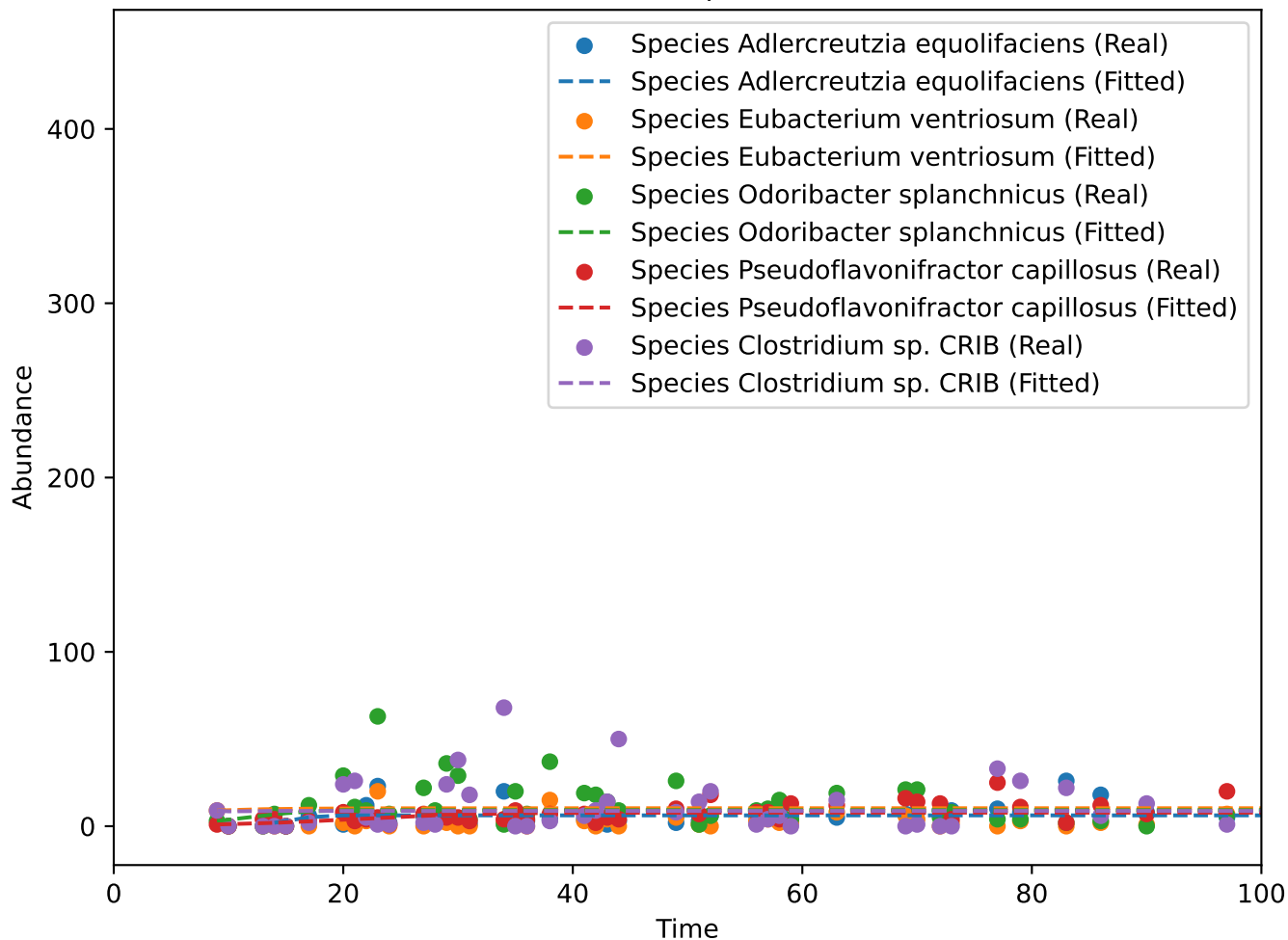


### Mouse 3 - Species Fit

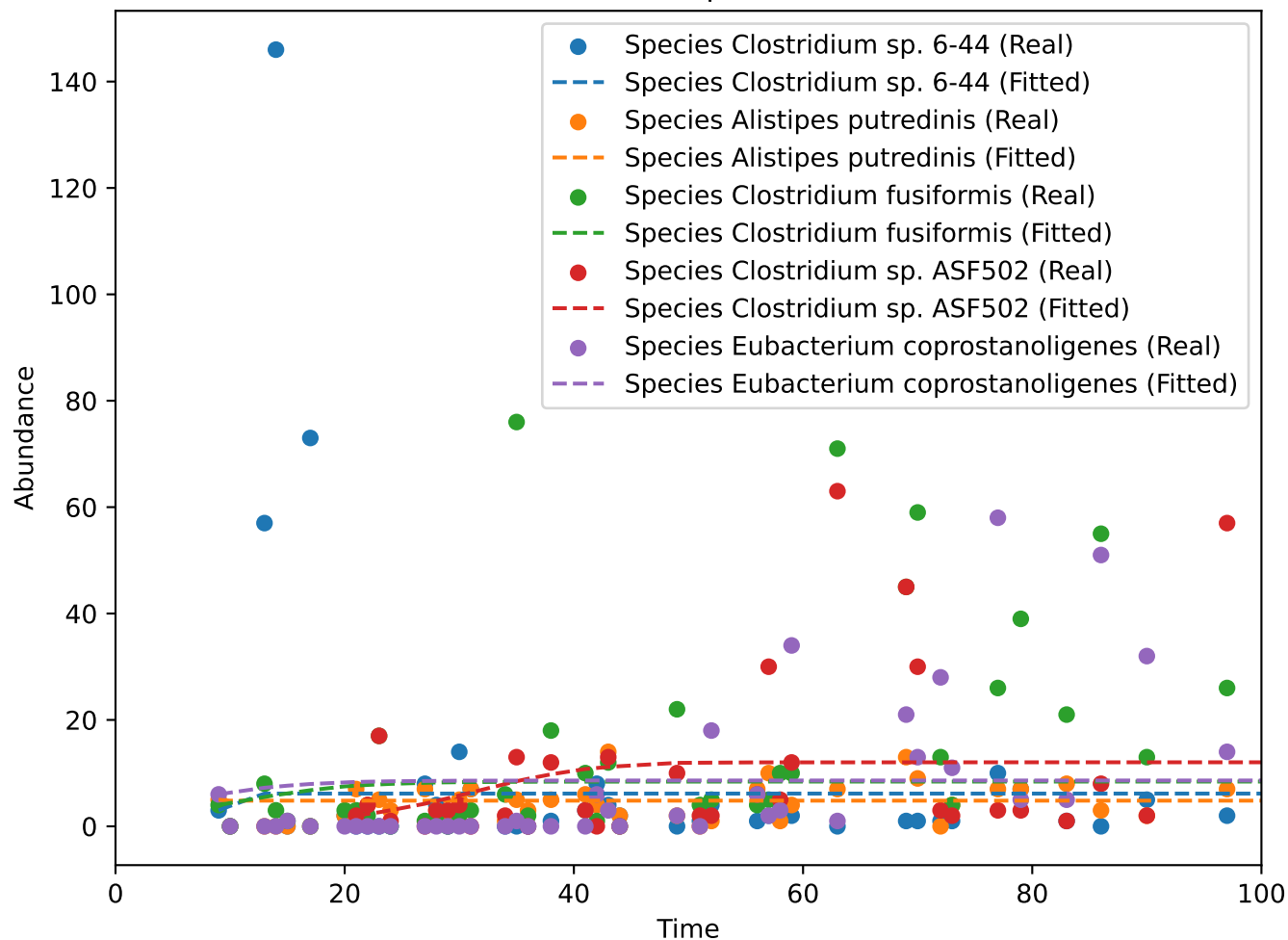




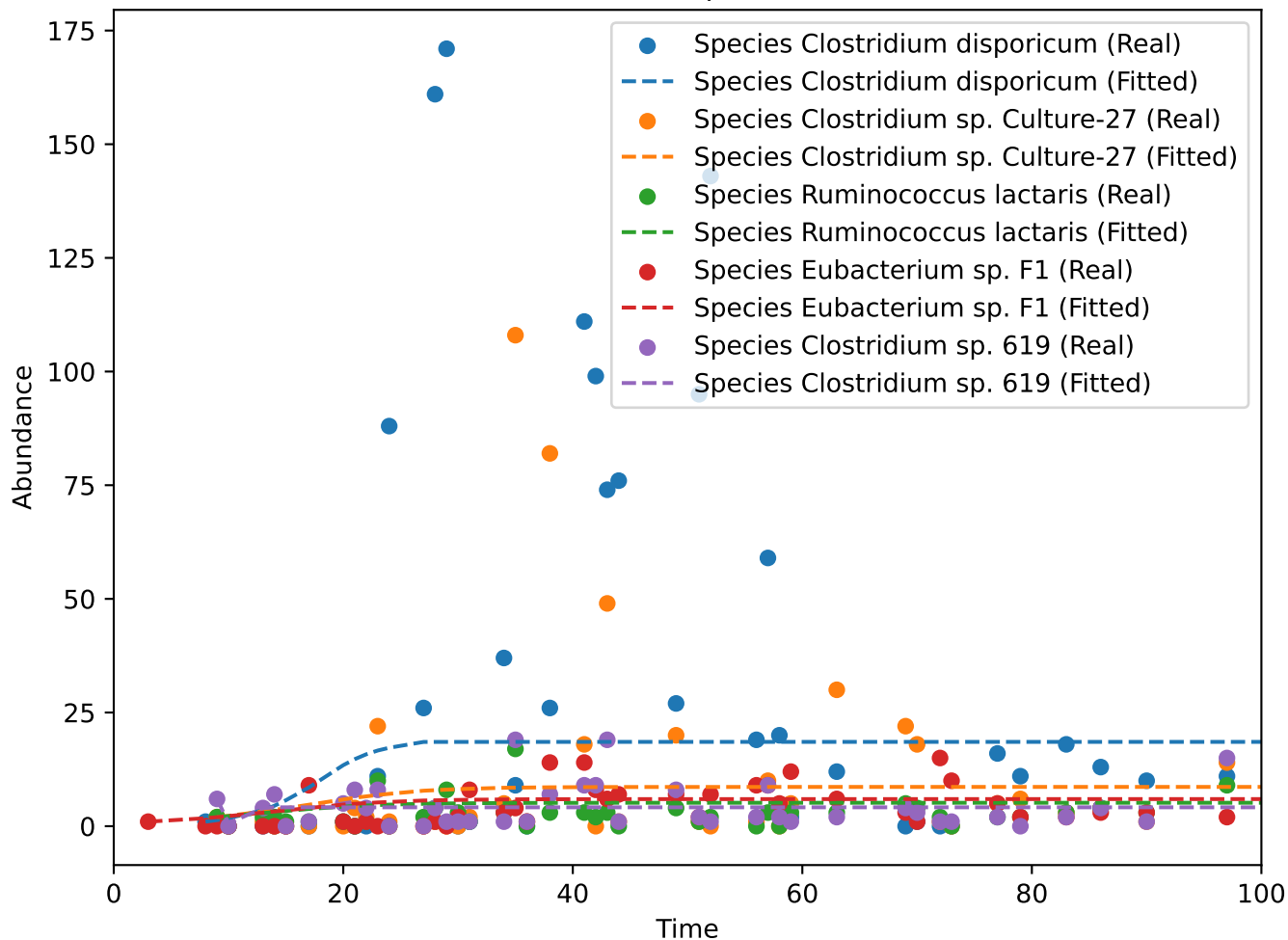
Mouse 3 - Species Fit



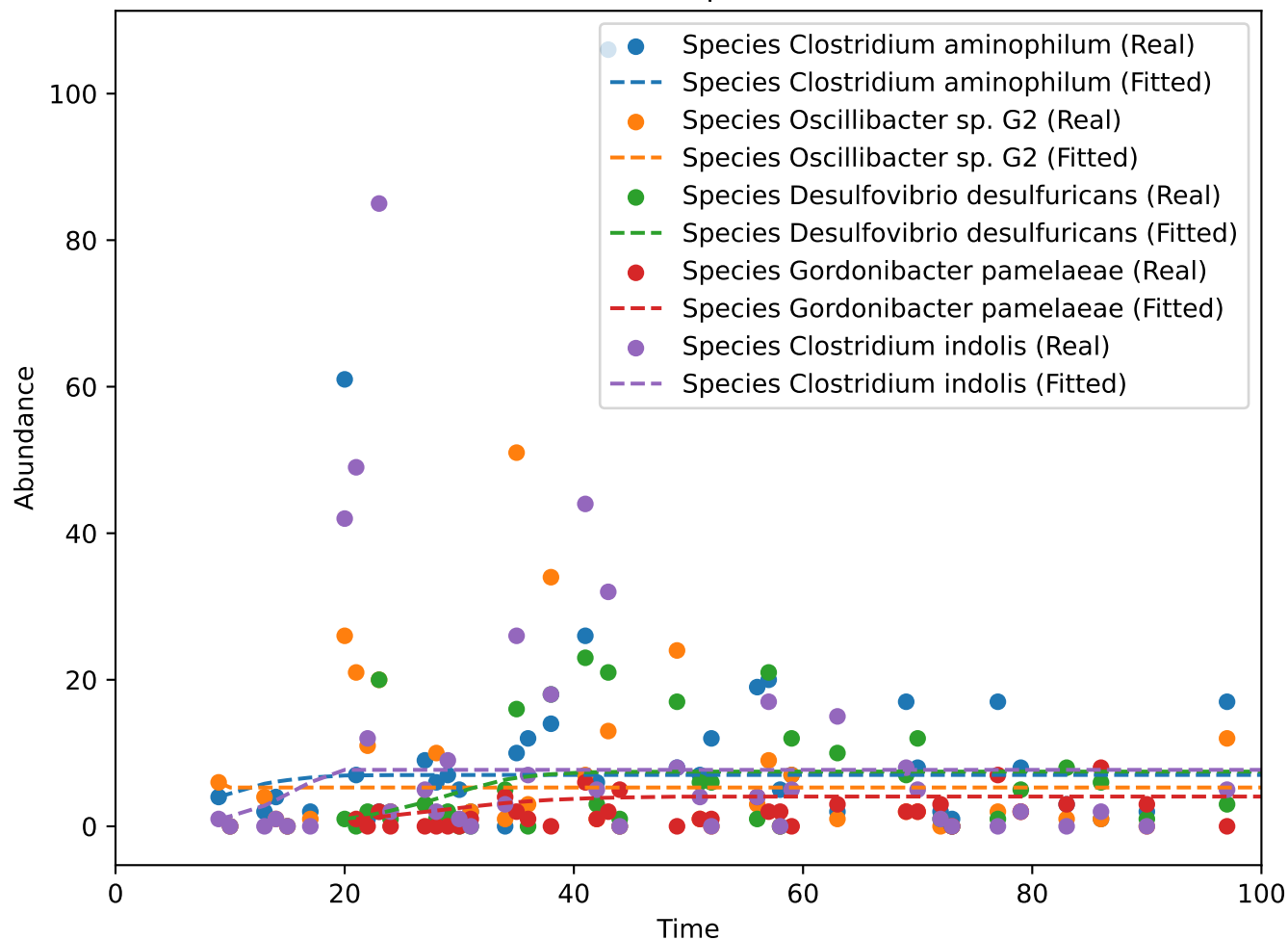
Mouse 3 - Species Fit



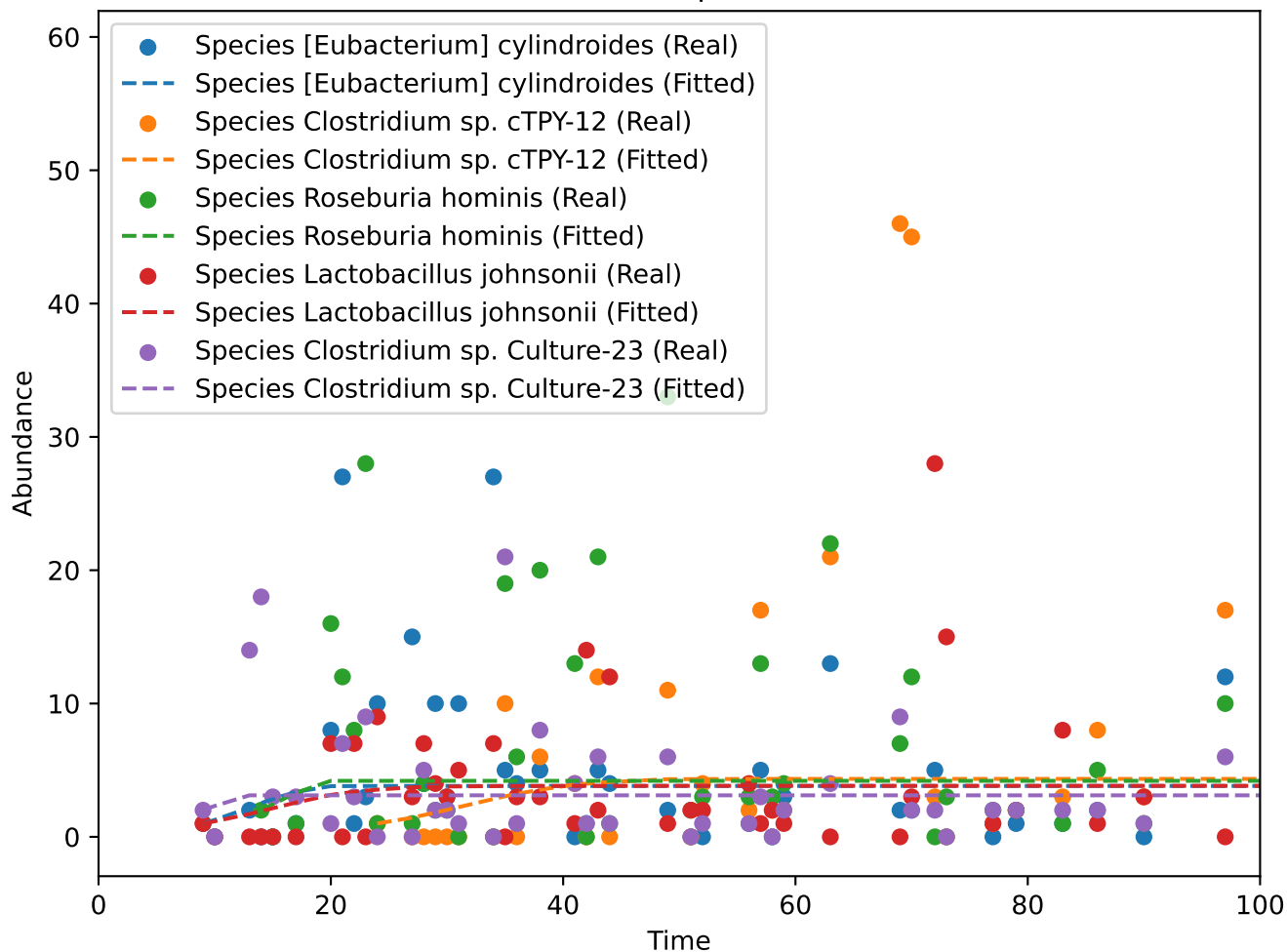
Mouse 3 - Species Fit



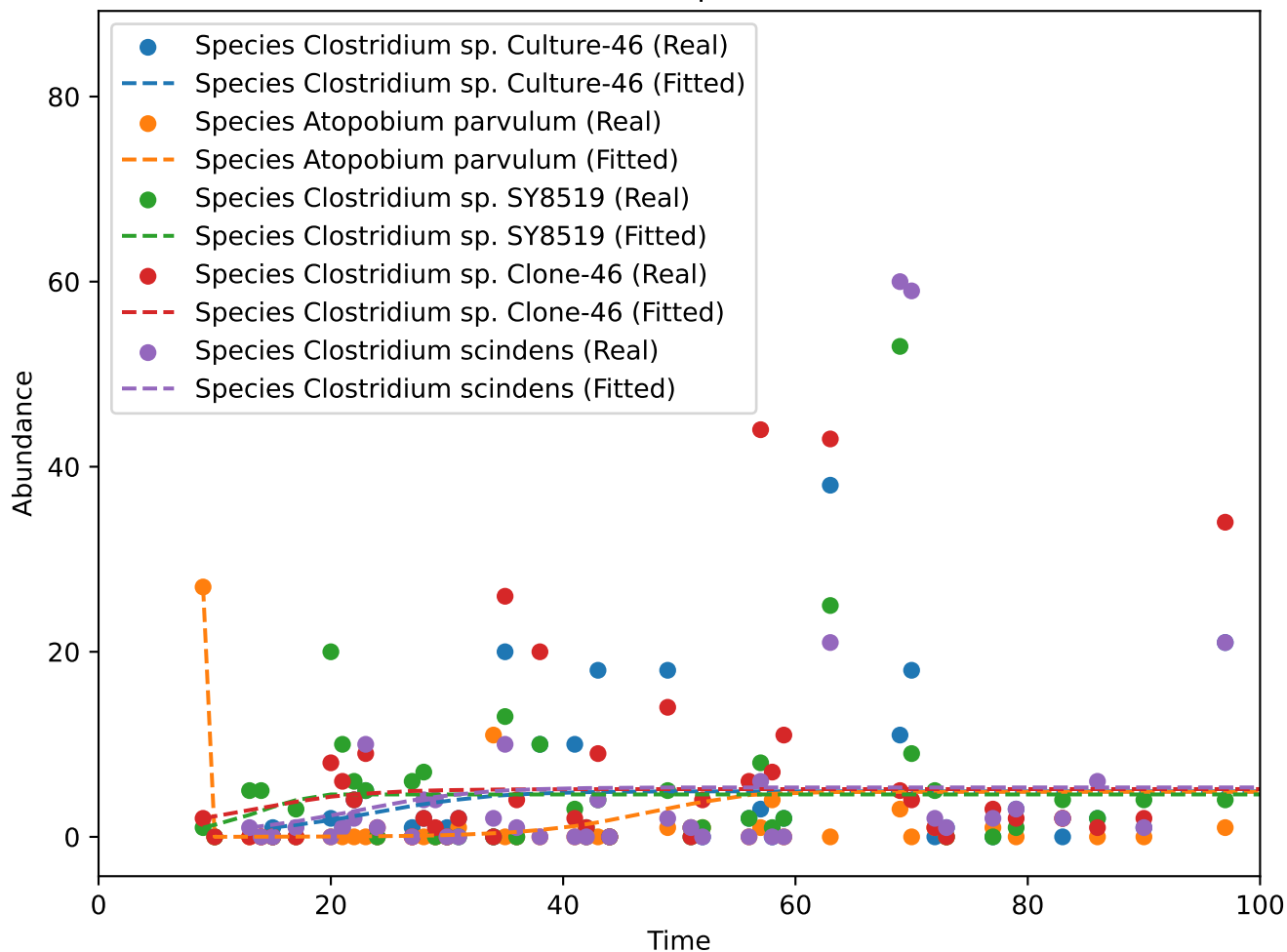
Mouse 3 - Species Fit



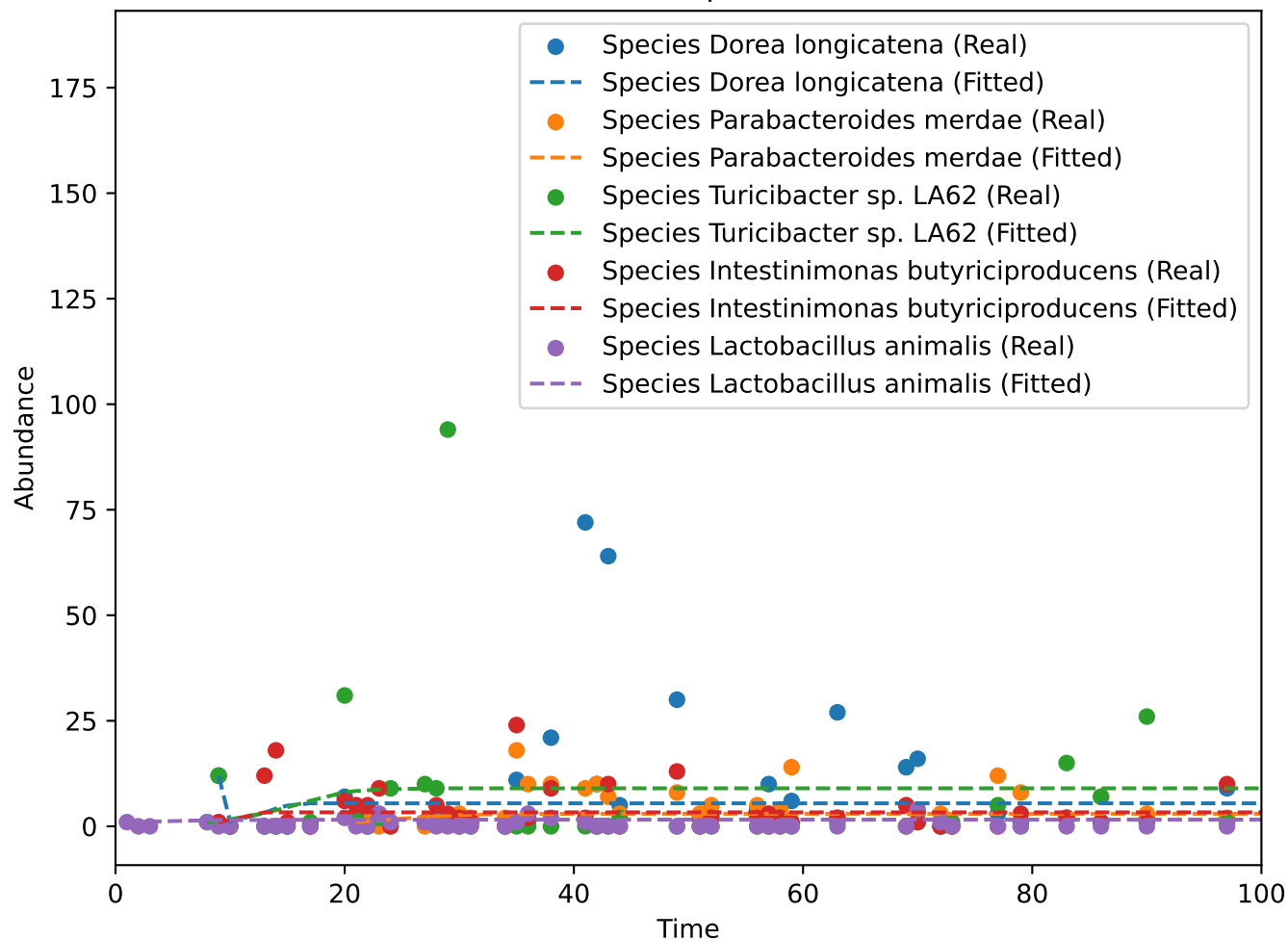
Mouse 3 - Species Fit



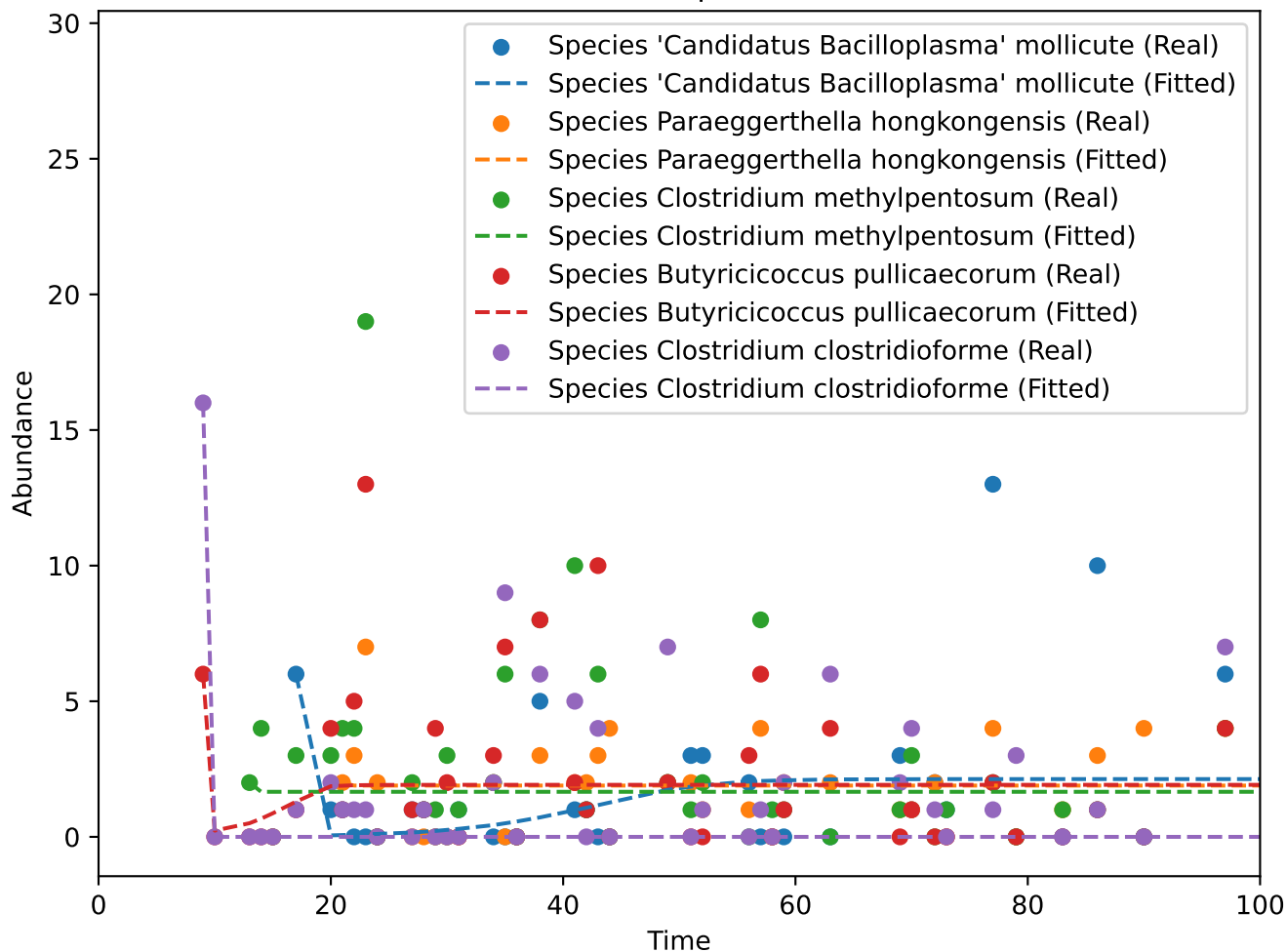
Mouse 3 - Species Fit



Mouse 3 - Species Fit

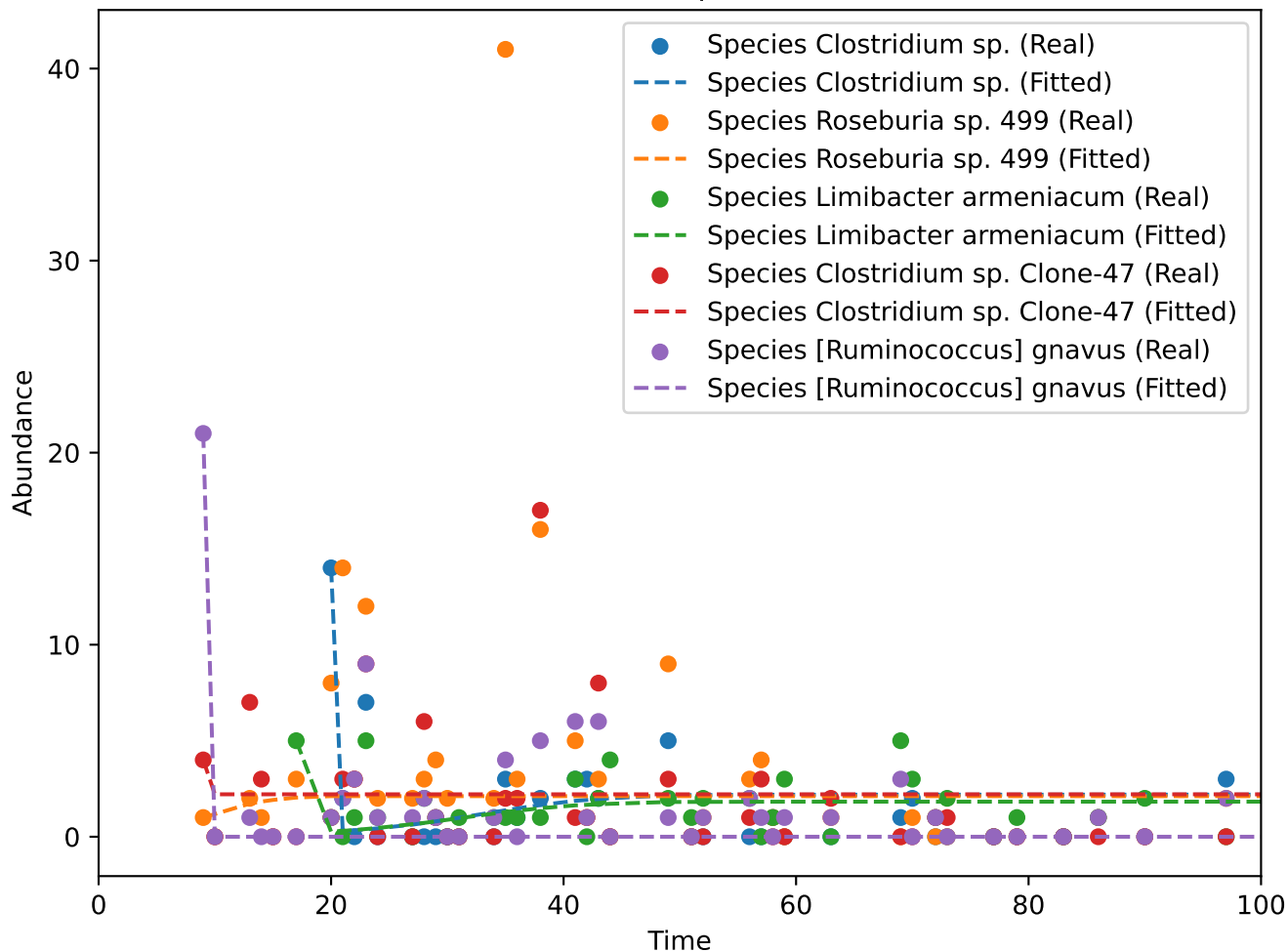


Mouse 3 - Species Fit

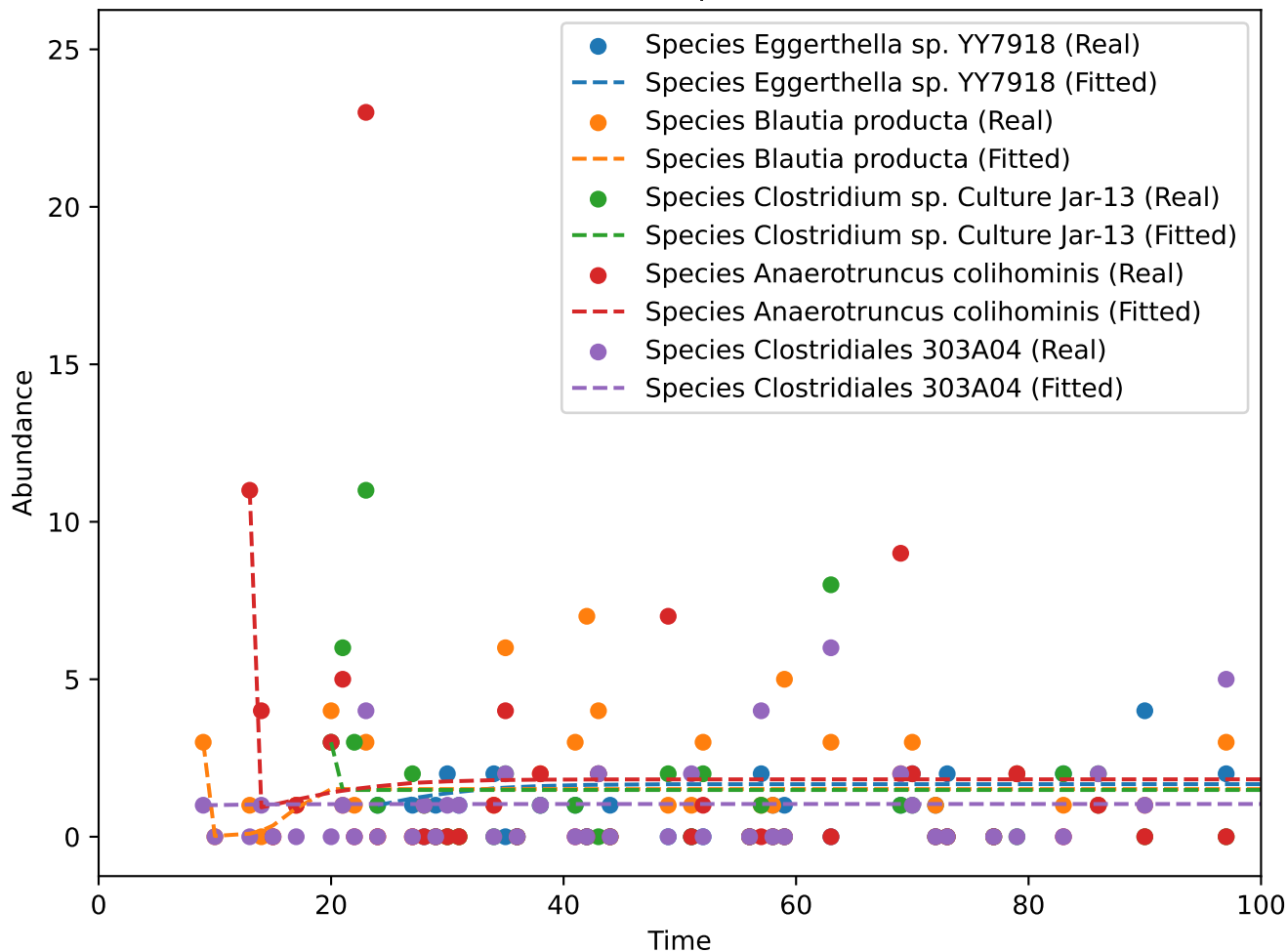




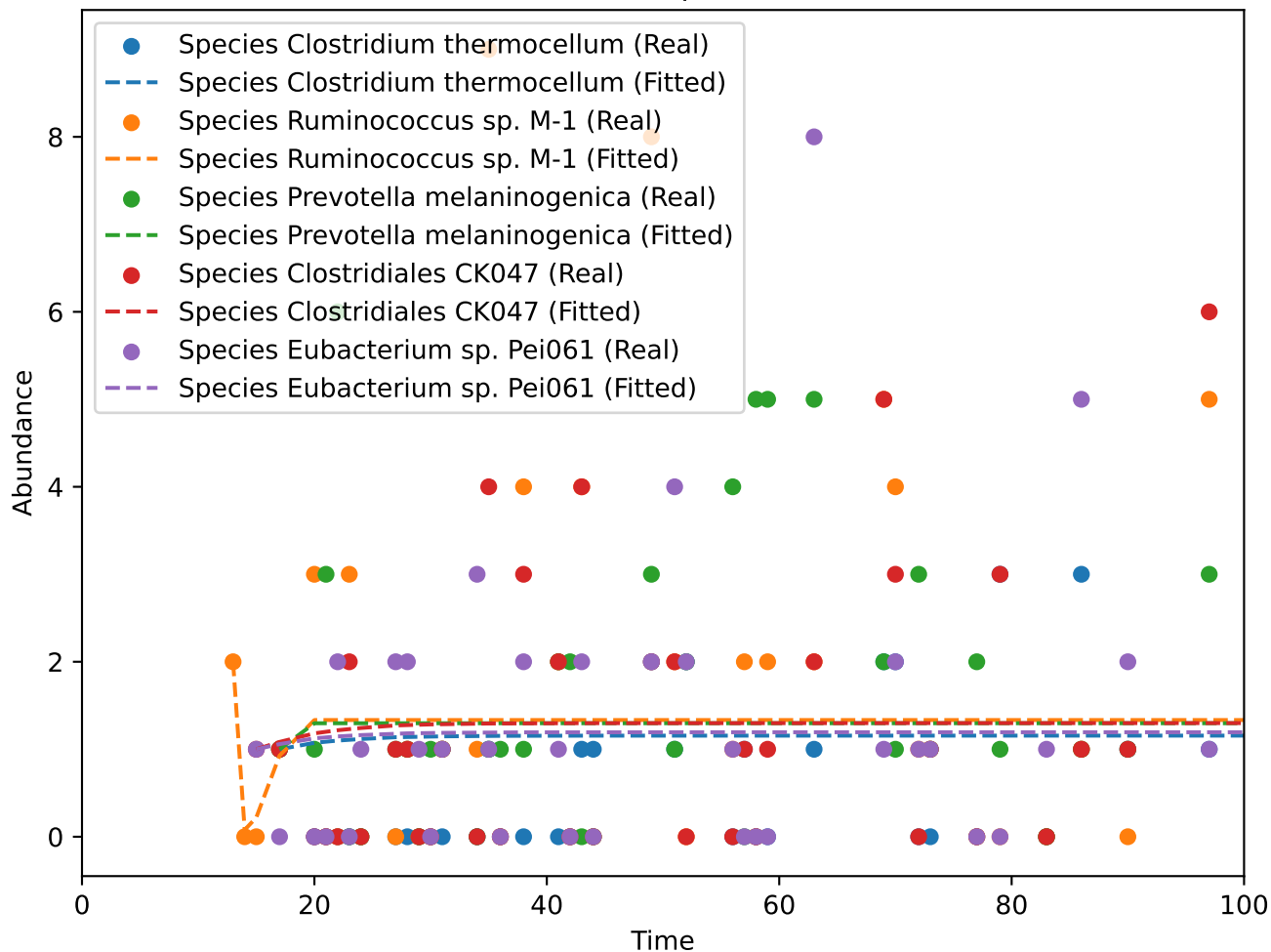
Mouse 3 - Species Fit



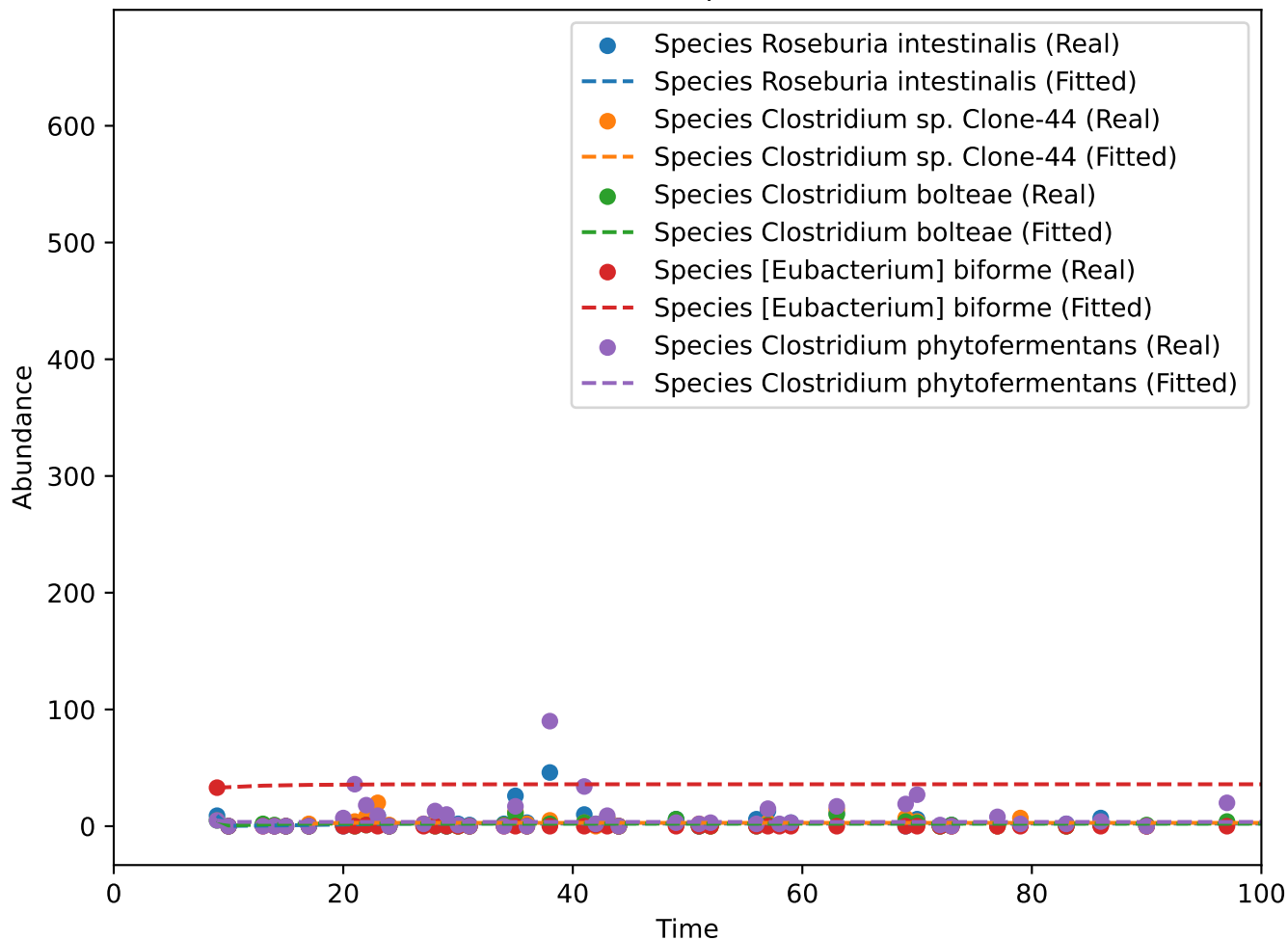
Mouse 3 - Species Fit



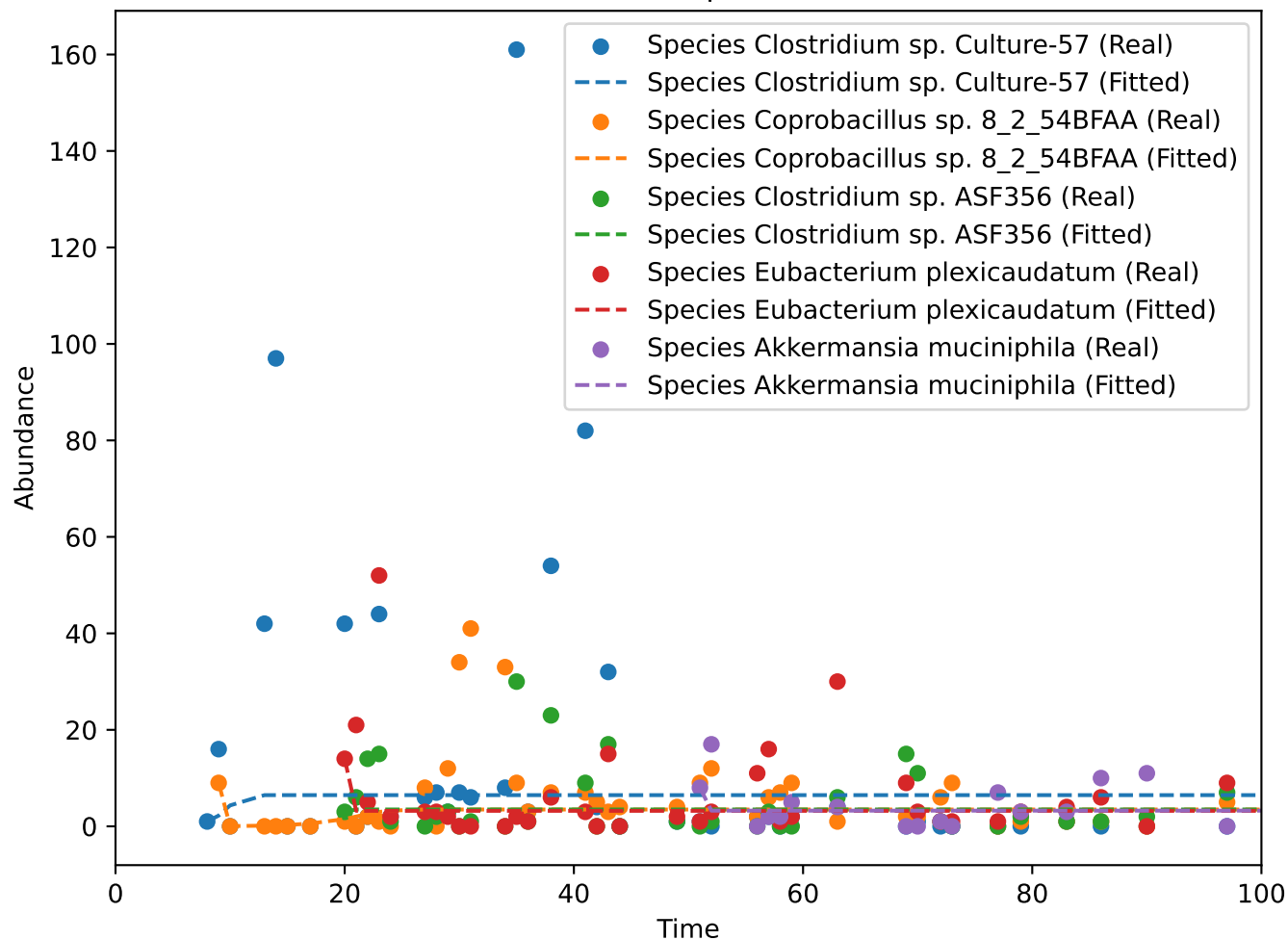
# Mouse 3 - Species Fit



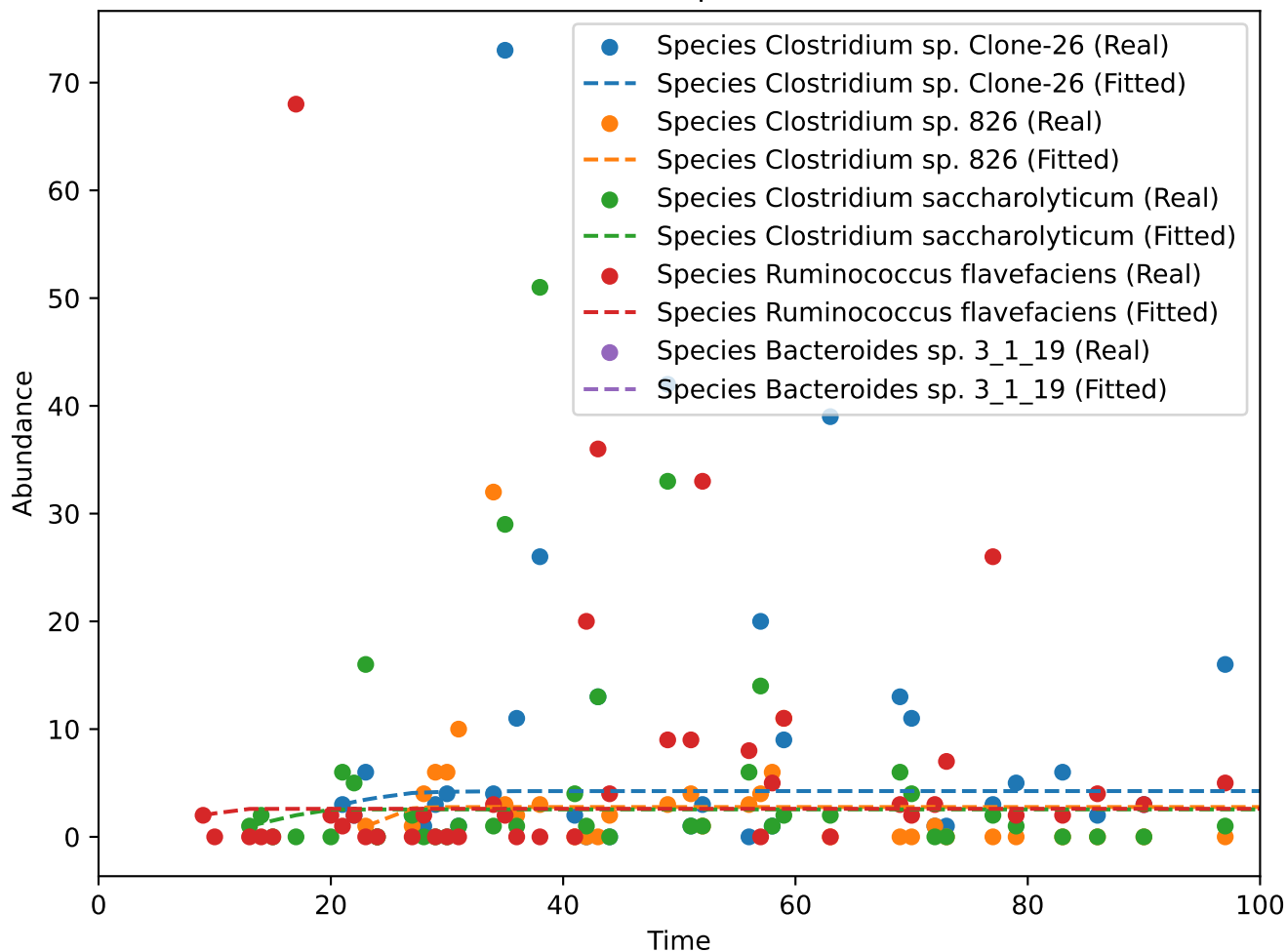
Mouse 3 - Species Fit



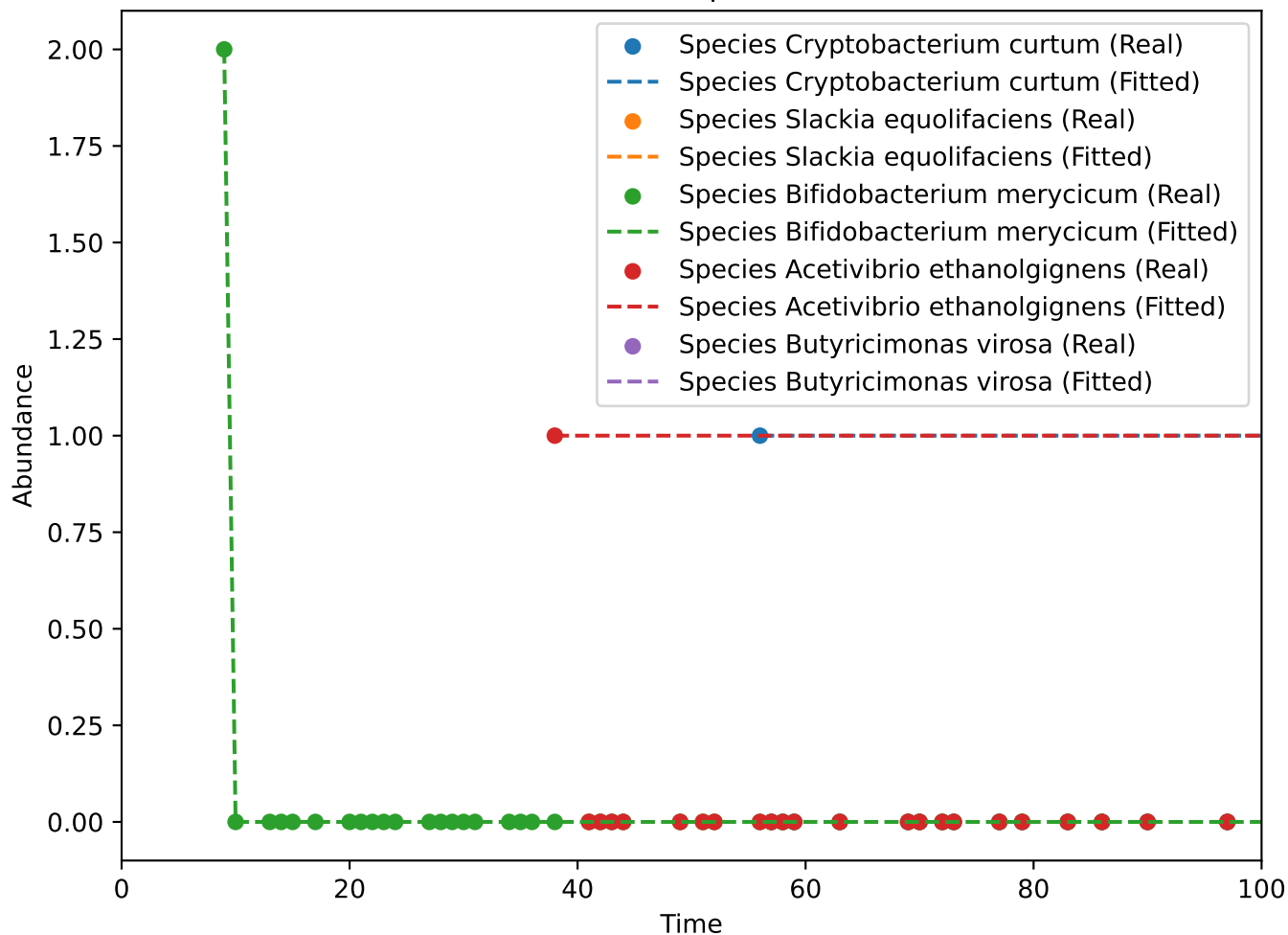
Mouse 3 - Species Fit



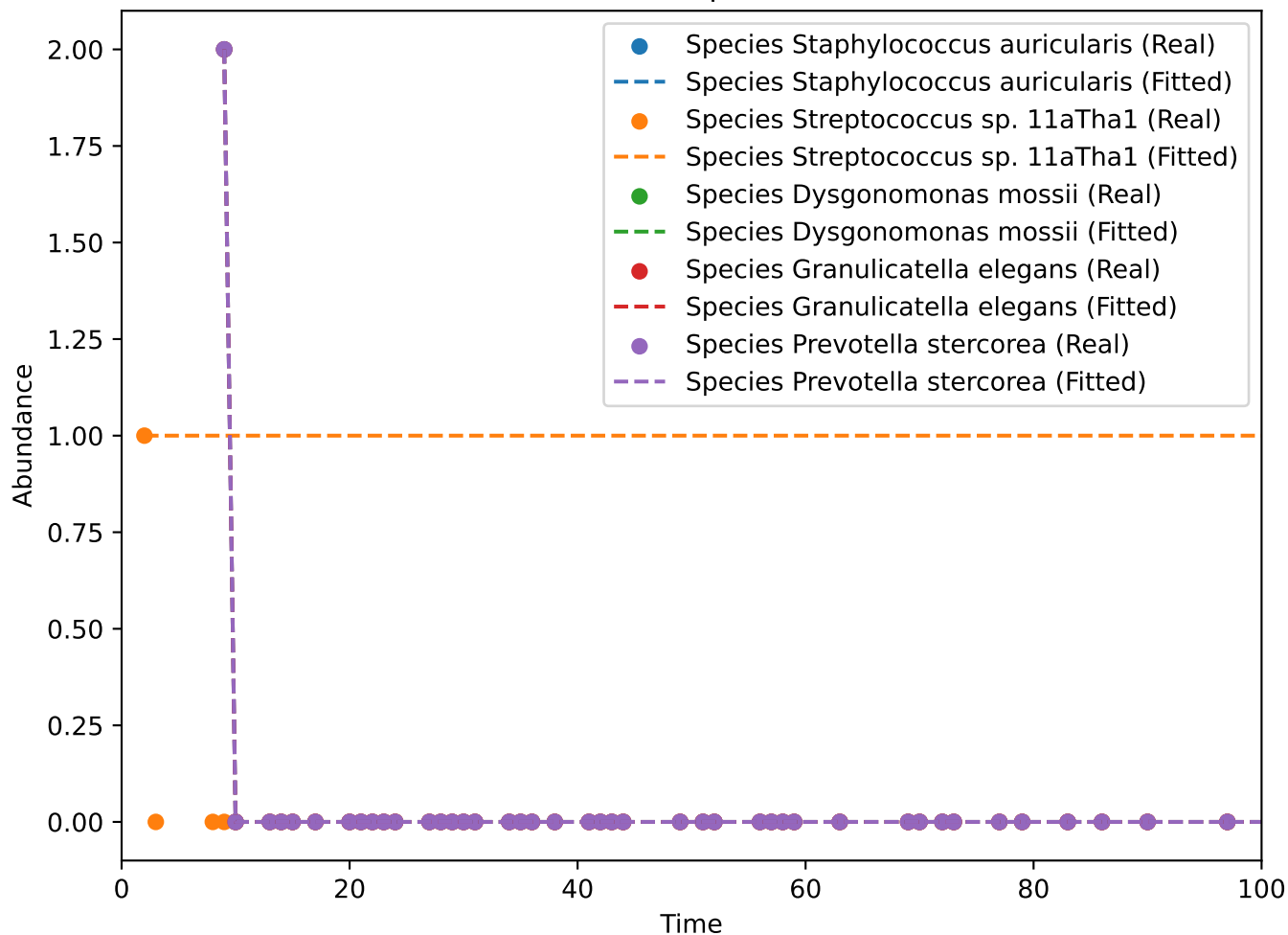
Mouse 3 - Species Fit



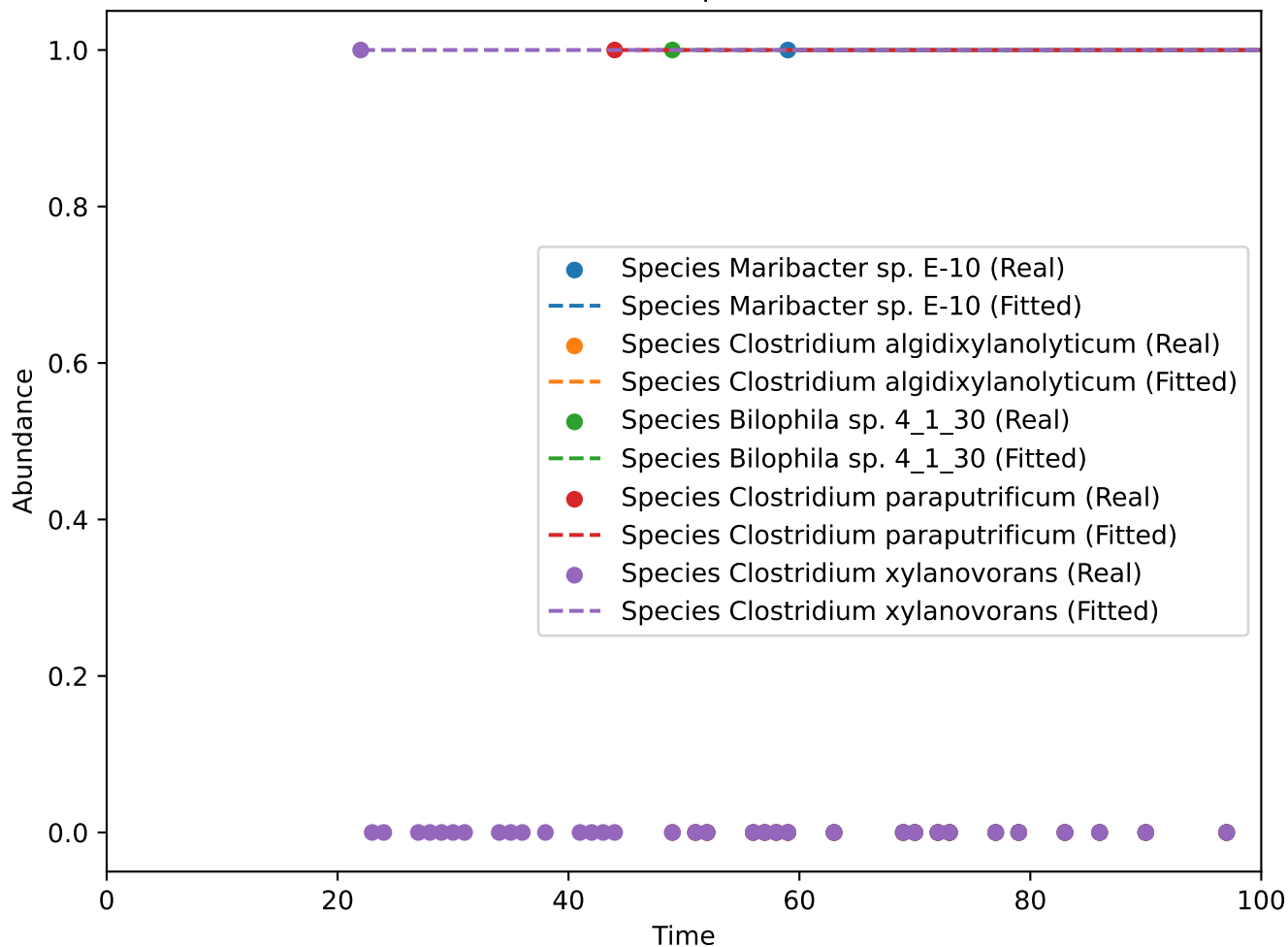
Mouse 3 - Species Fit



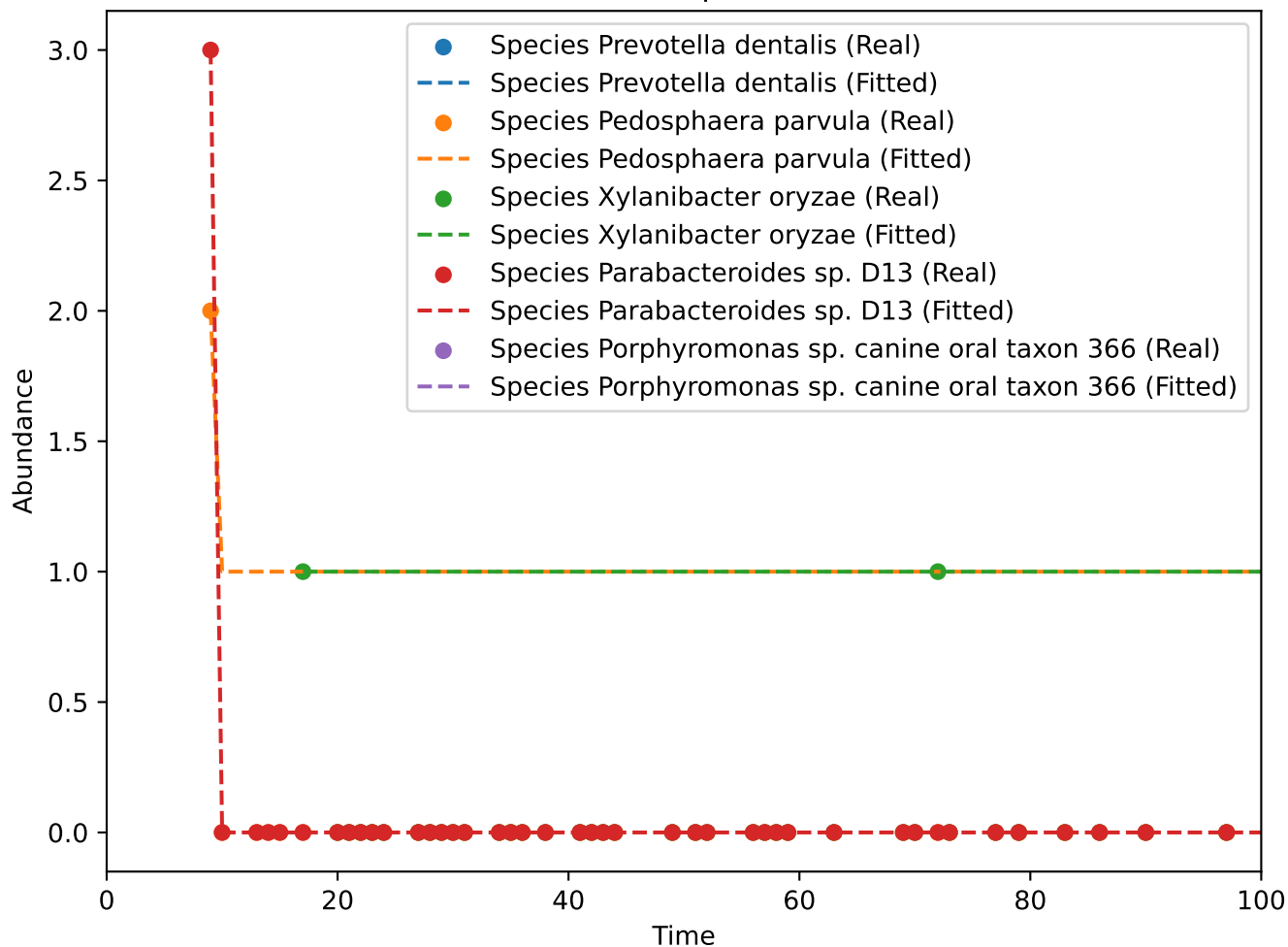
Mouse 3 - Species Fit



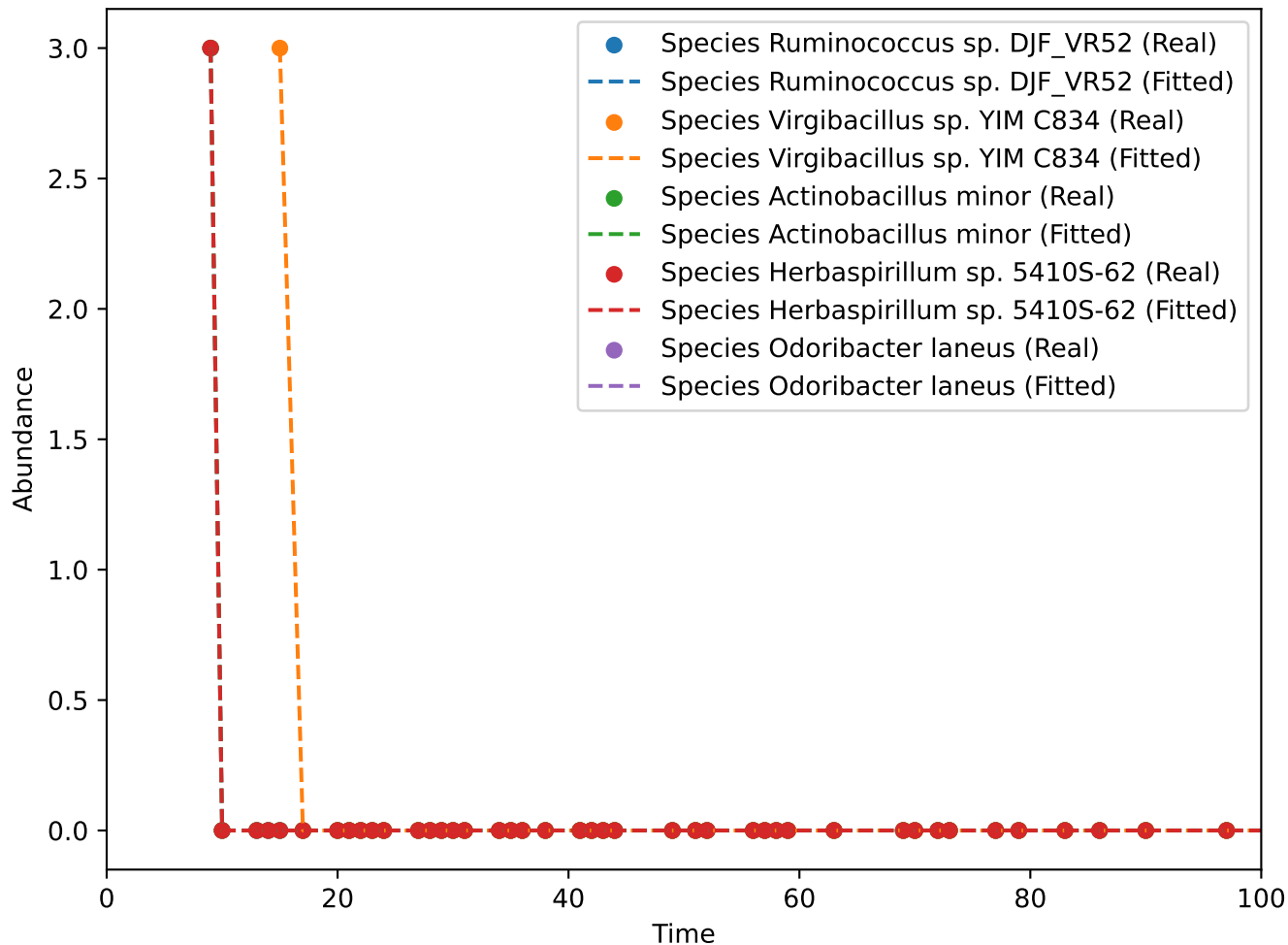


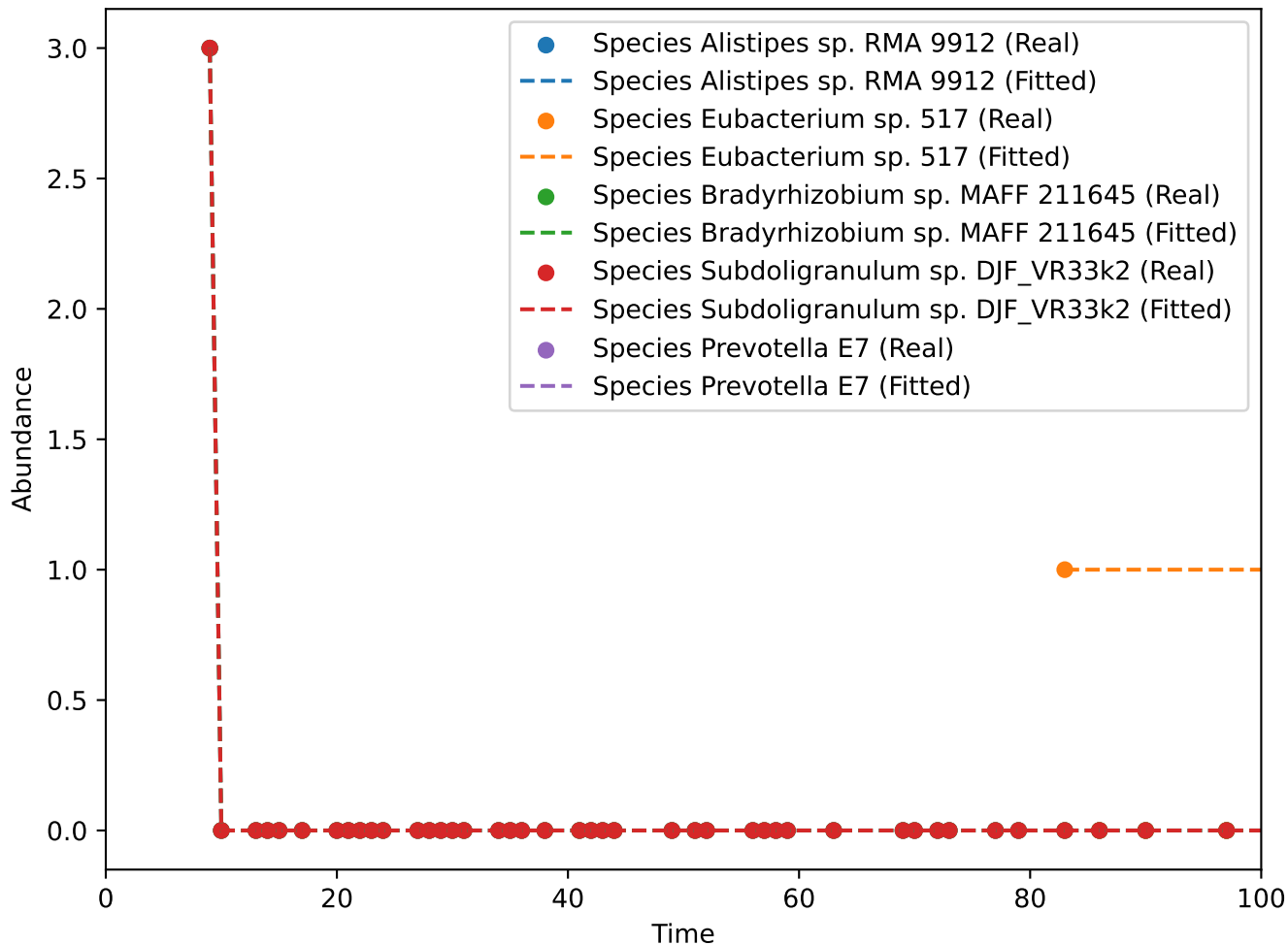
[illegible]

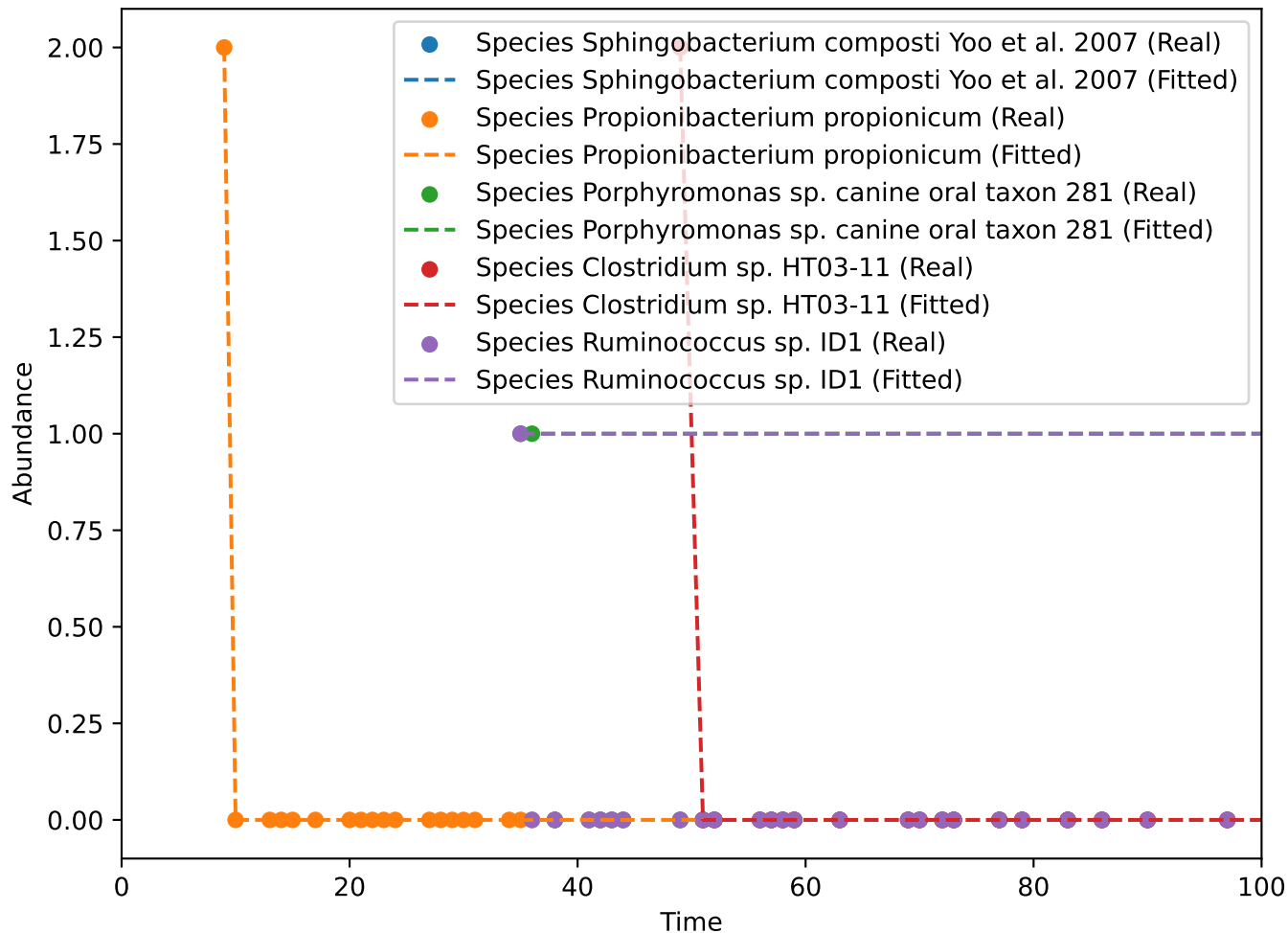
Mouse 3 - Species Fit



\_\_\_\_\_





[illegible]

Mouse 3 - Species Fit

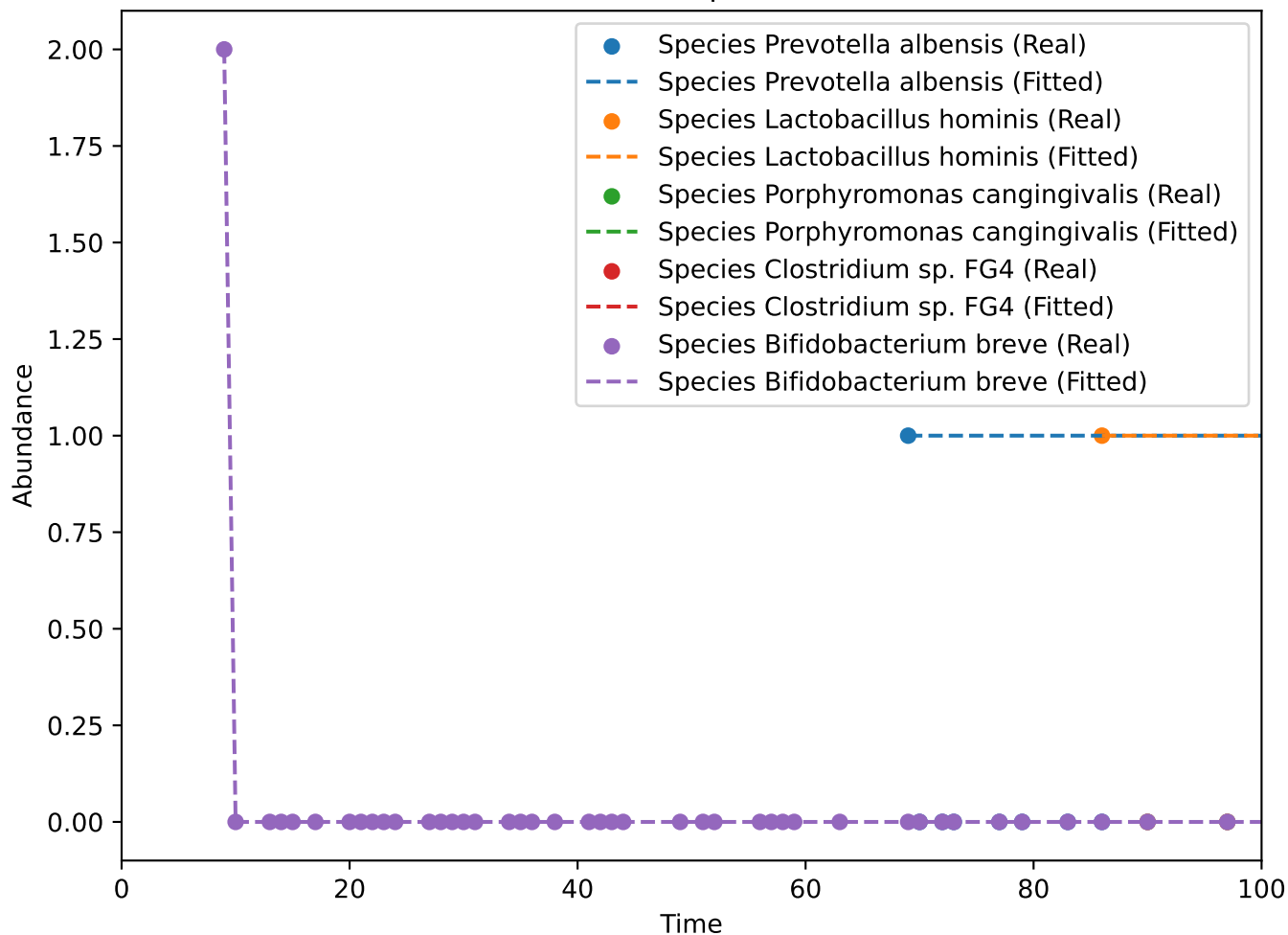
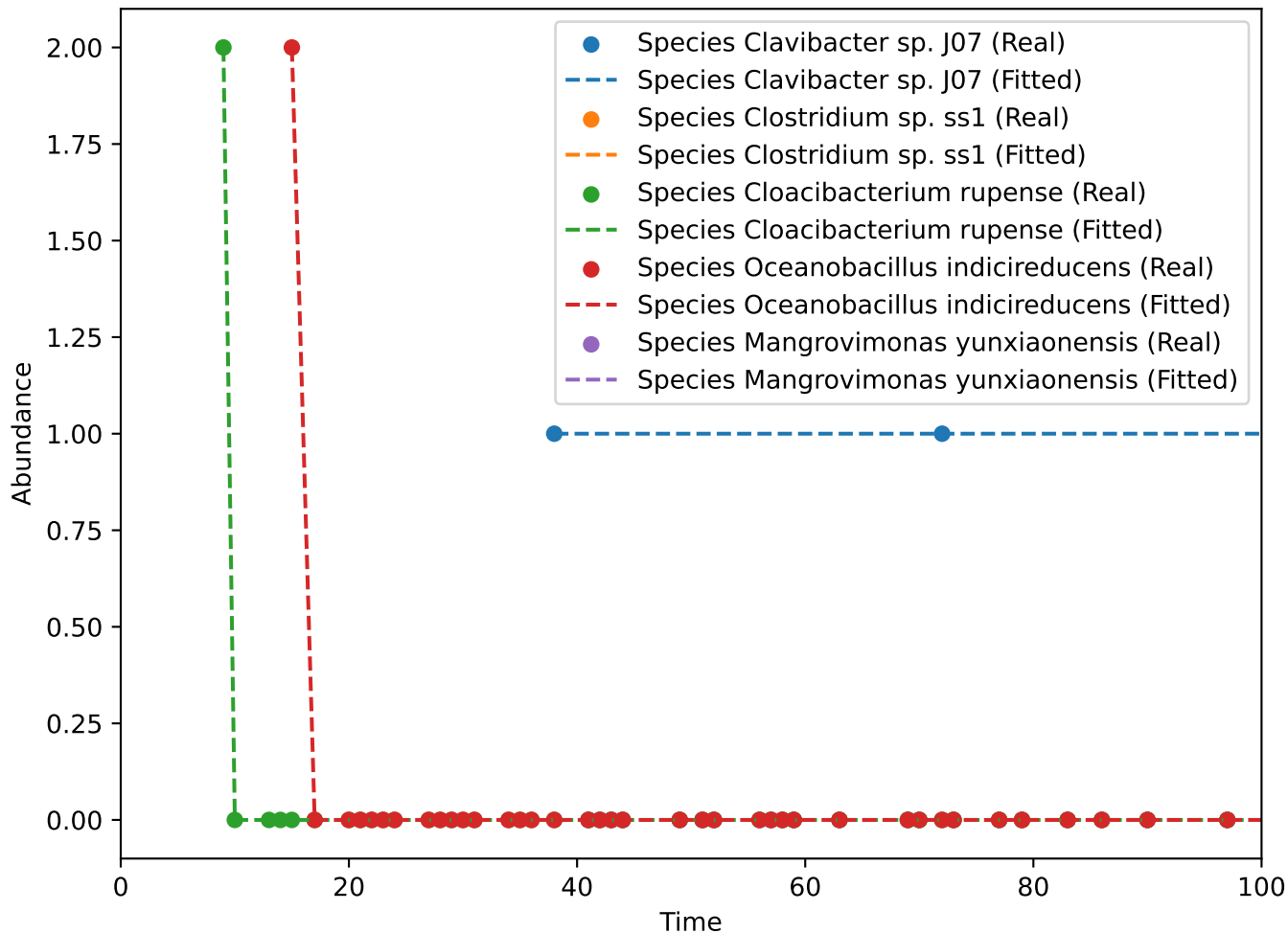
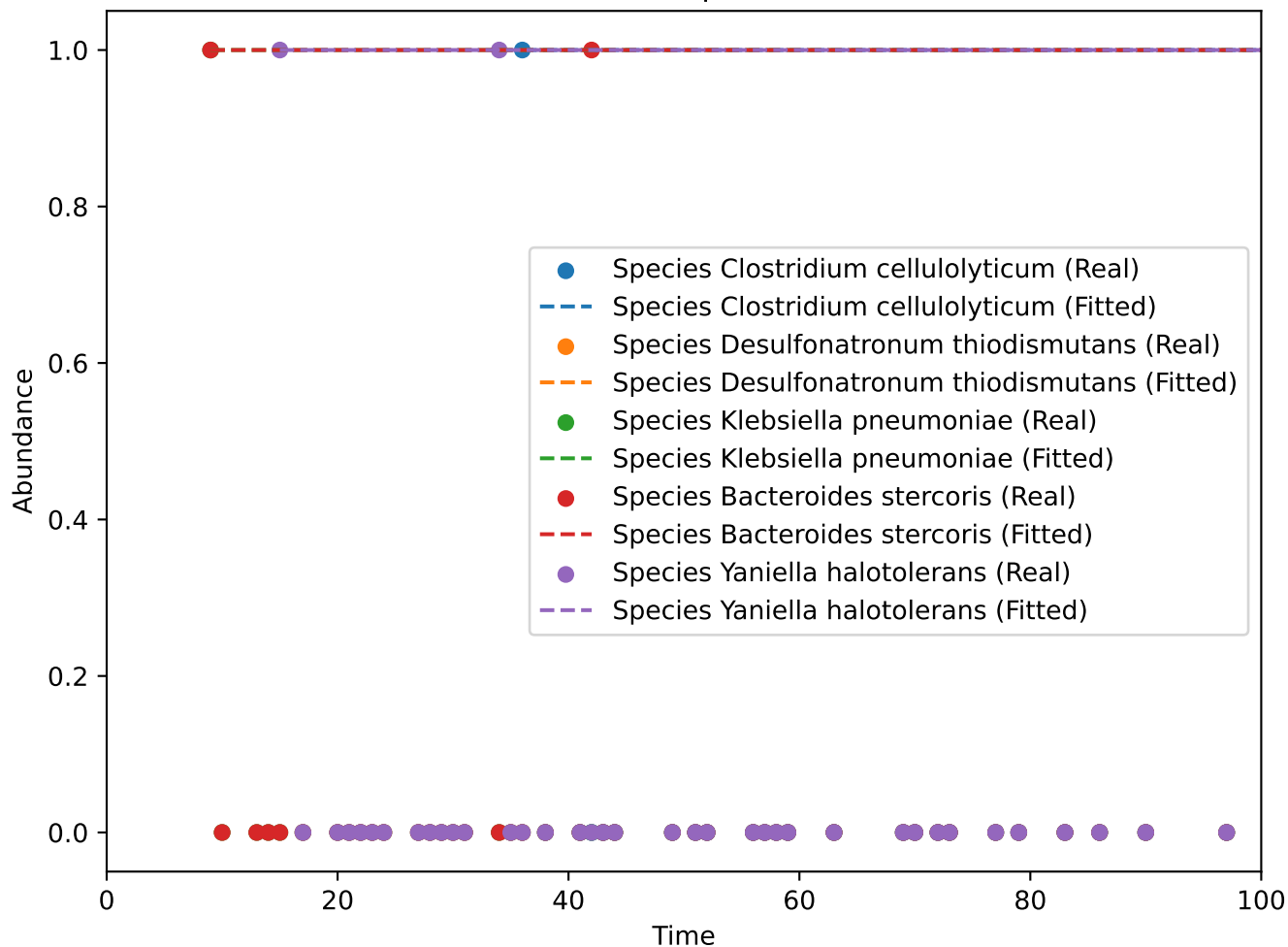


Figure 1 is a line graph showing the relationship between the number of species (X-axis, 0 to 100) and the number of OTUs (Y-axis, 0 to 1000) for four bacterial species. The species are: Species Clavibacter sp. J07 (blue), Species Clostridium sp. ss1 (orange), Species Cloacibacterium rupense (green), and Species Oceanobacillus indicireducens (red). For each species, both real data points (solid lines with dots) and fitted curves (dashed lines) are shown. Species Clavibacter sp. J07 shows a sharp increase in OTUs at a low number of species, followed by a plateau. Species Clostridium sp. ss1 shows a similar pattern but with a higher OTU count. Species Cloacibacterium rupense shows a very sharp increase in OTUs at a low number of species, followed by a plateau. Species Oceanobacillus indicireducens shows a sharp increase in OTUs at a low number of species, followed by a plateau. The fitted curves generally follow the trend of the real data points.

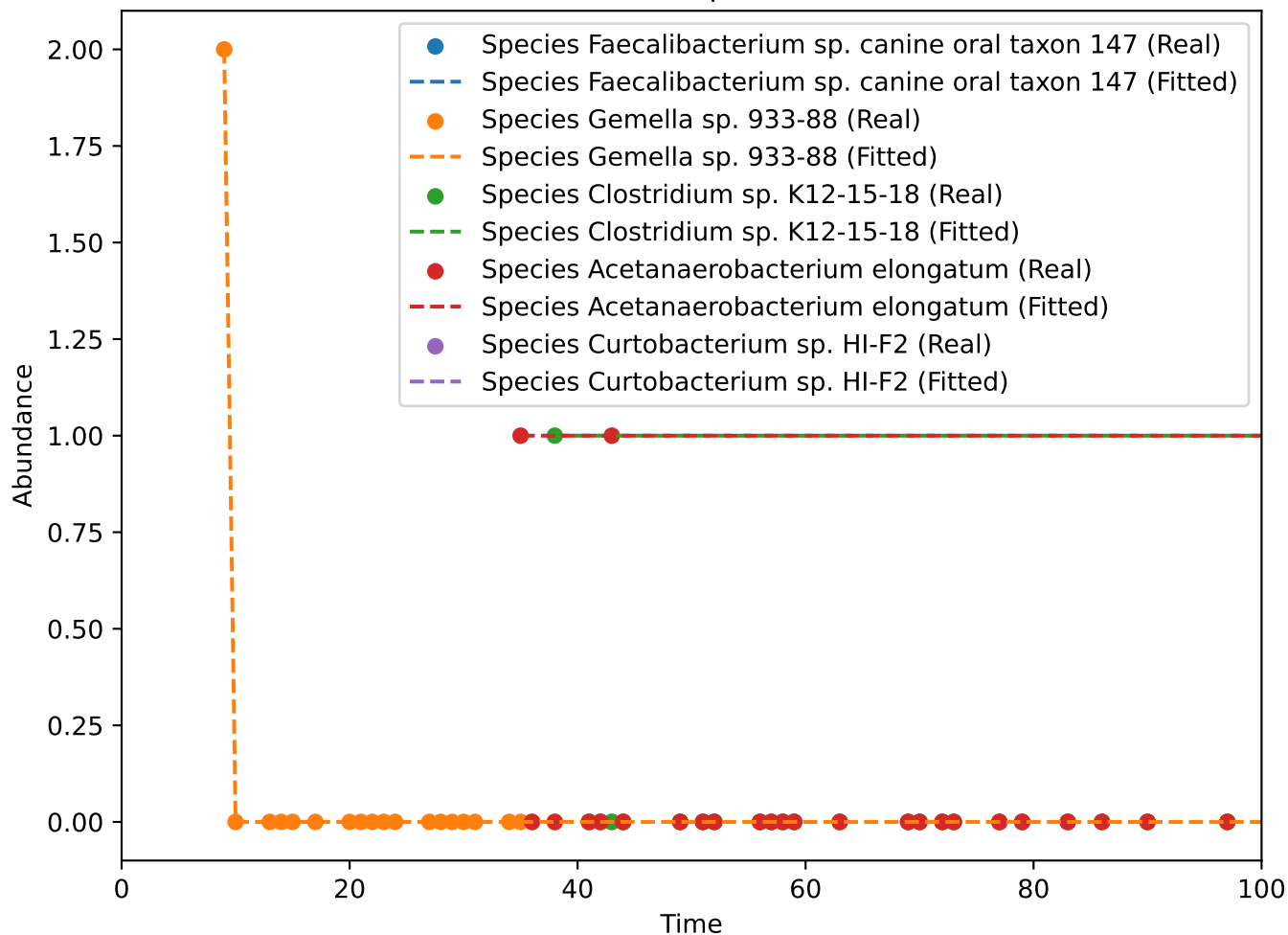


Mouse 3 - Species Fit





Mouse 3 - Species Fit



Species TM7 oral taxon 347 (Real)

Species TM7 oral taxon 347 (Fitted)

Species Clostridium citroniae (Real)

Species Clostridium citroniae (Fitted)

Species Tropheryma whipplei (Real)

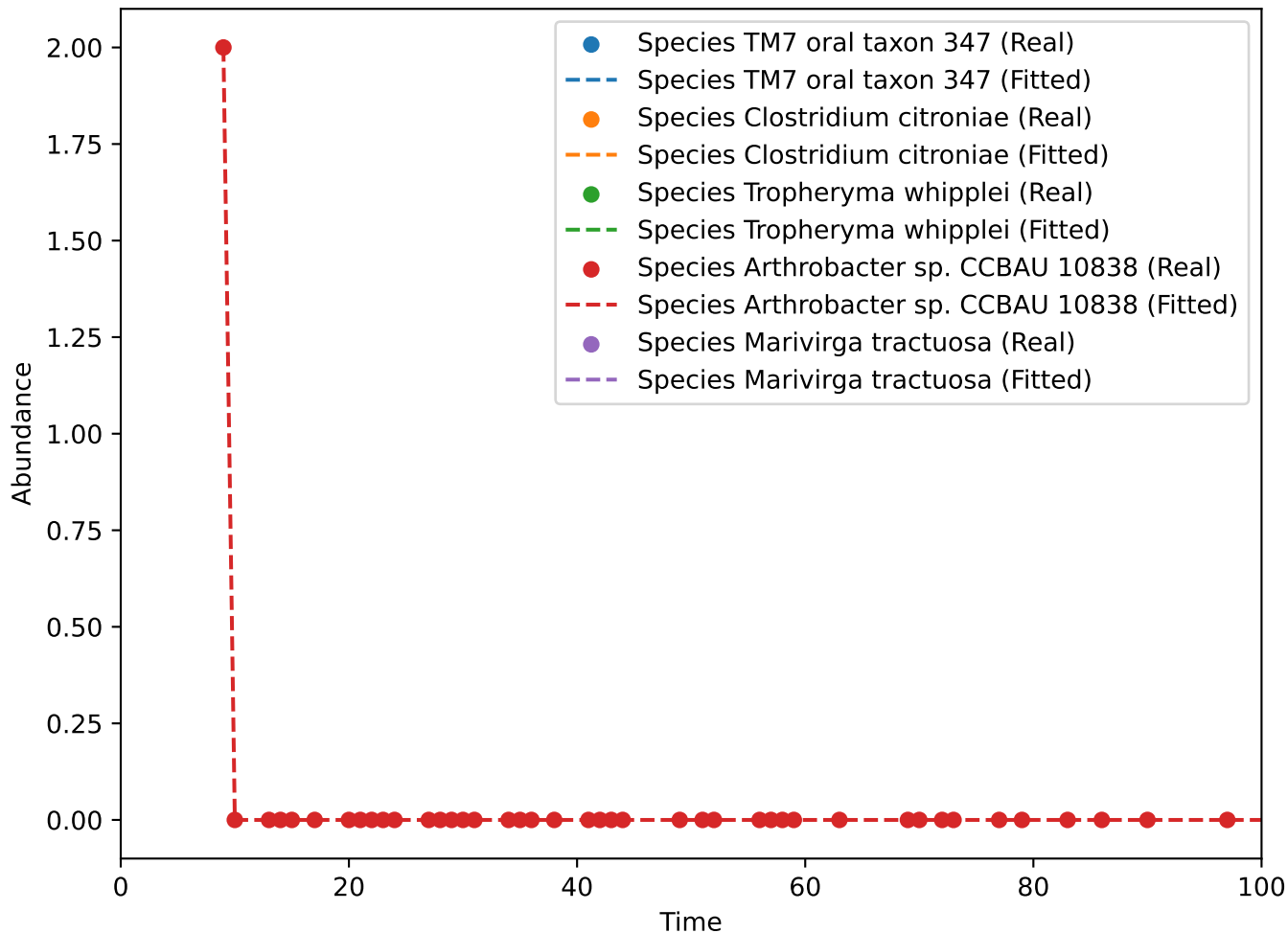
Species Tropheryma whipplei (Fitted)

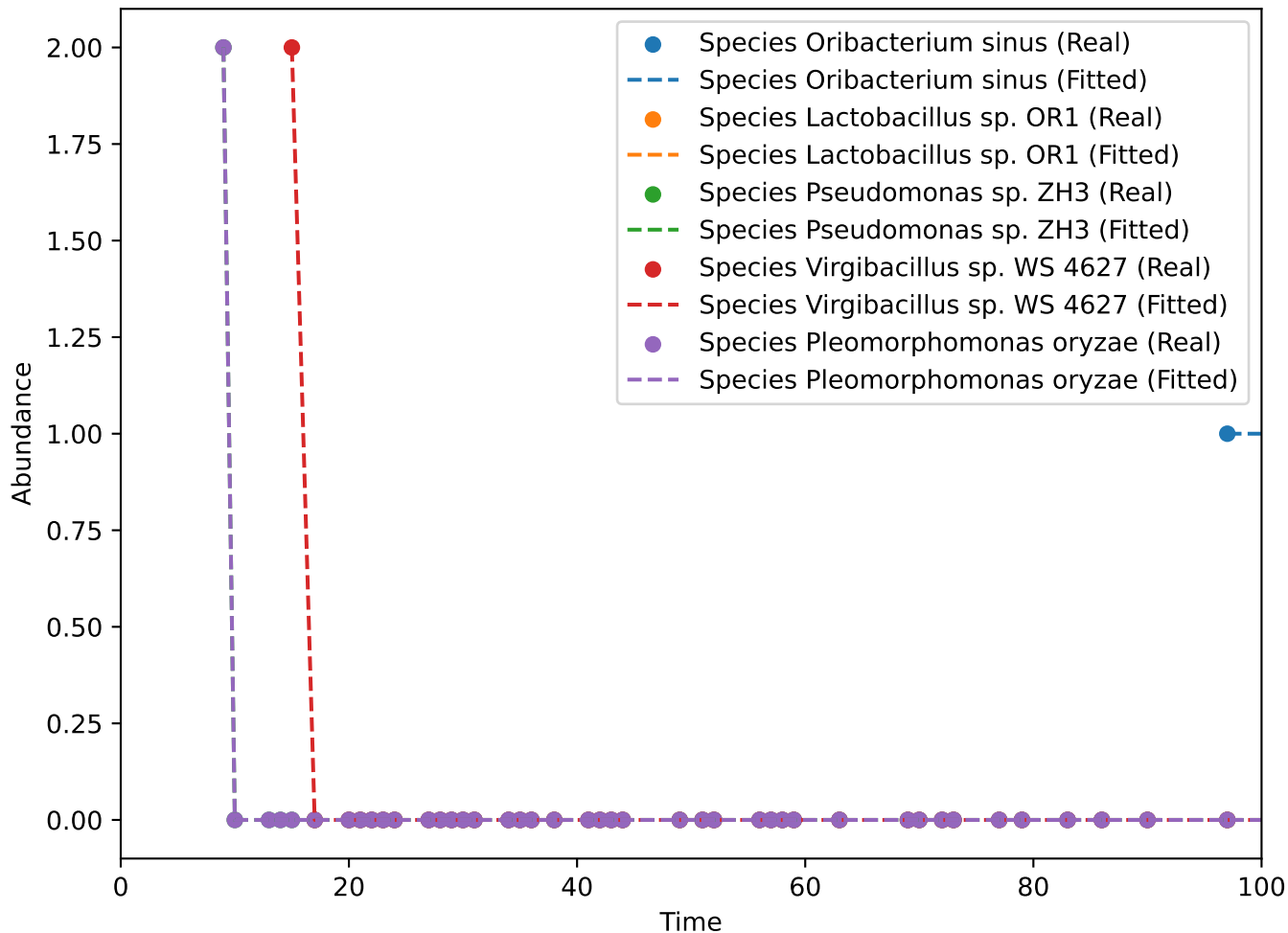
Species Arthrobacter sp. CCBAU 10838 (Real)

Species Arthrobacter sp. CCBAU 10838 (Fitted)

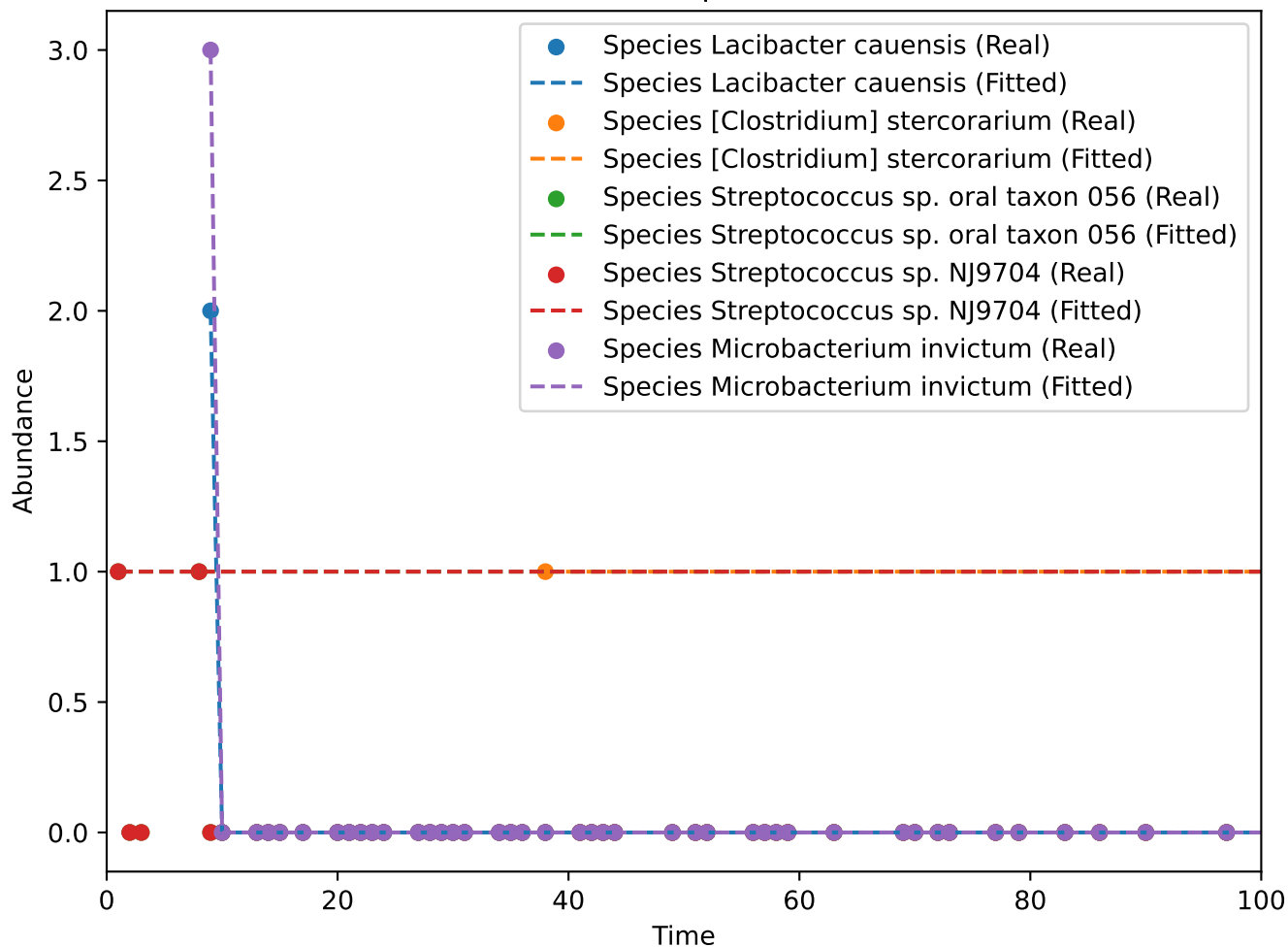
Species Marivirga tractuosa (Real)

Species Marivirga tractuosa (Fitted)





Mouse 3 - Species Fit



Species Pedobacter heparinus (Real)

Species Pedobacter heparinus (Fitted)

Species Abiotrophia defectiva (Real)

Species Abiotrophia defectiva (Fitted)

Species Clostridium piliforme (Real)

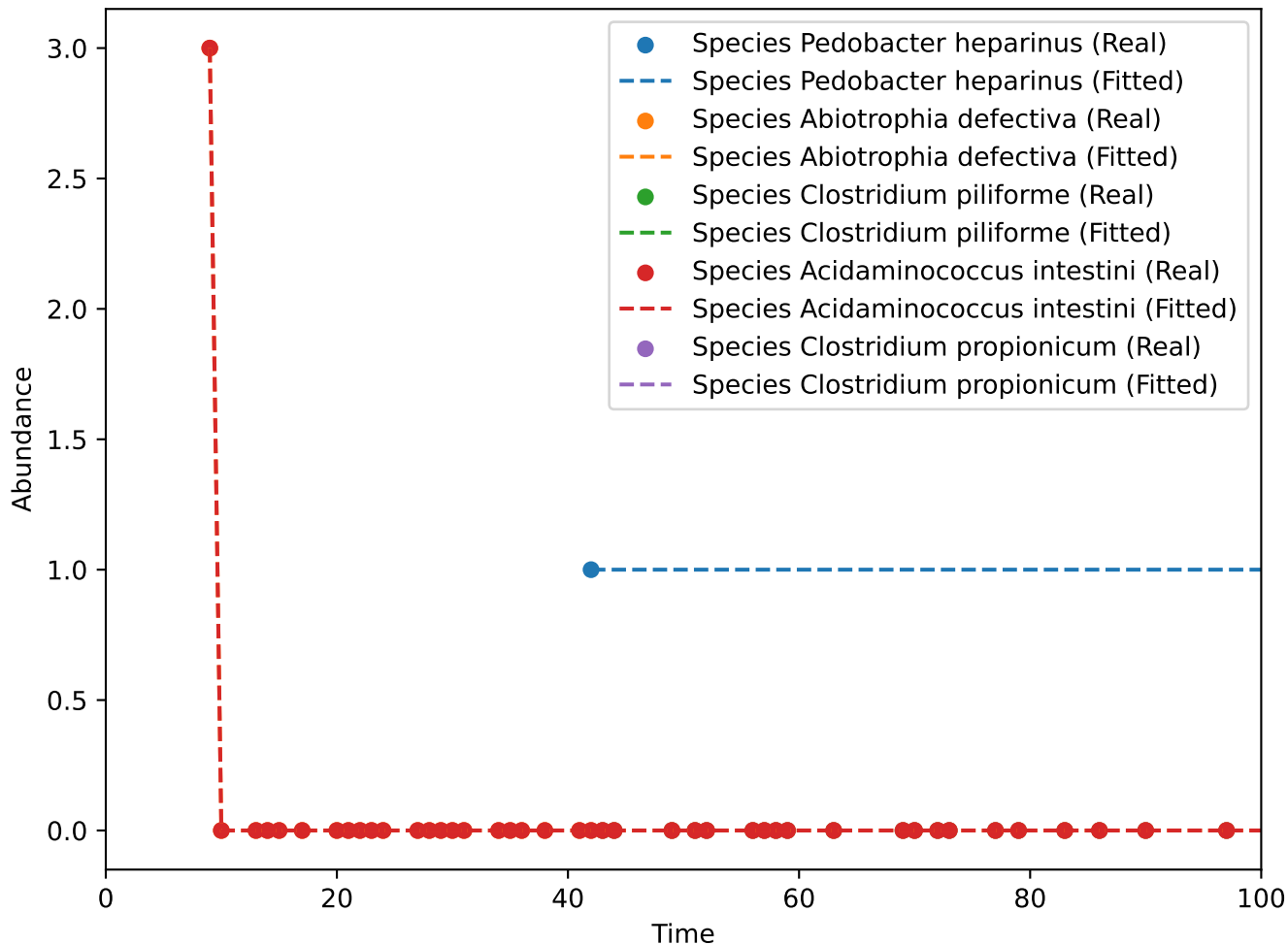
Species Clostridium piliforme (Fitted)

Species Acidaminococcus intestini (Real)

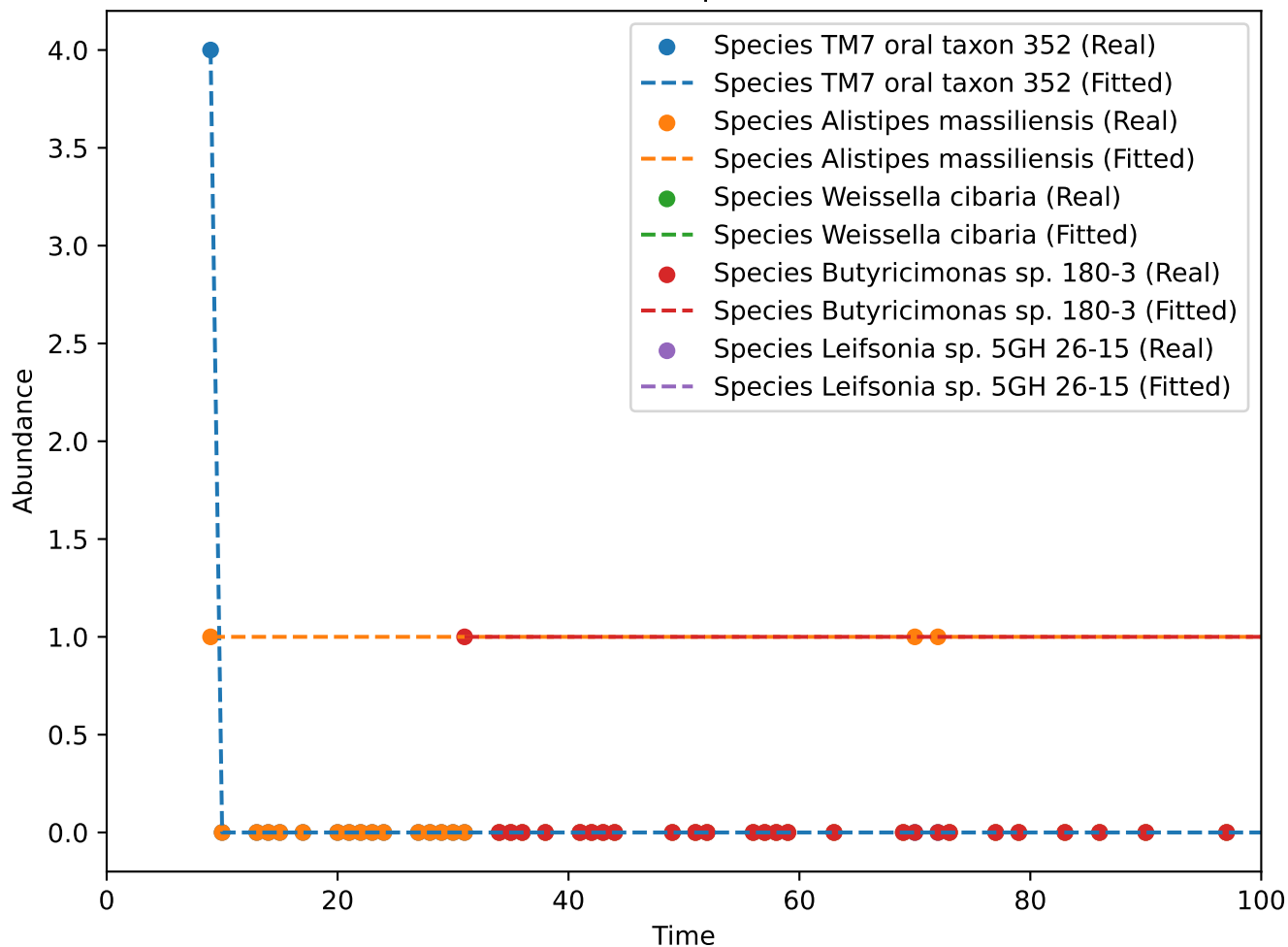
Species Acidaminococcus intestini (Fitted)

Species Clostridium propionicum (Real)

Species Clostridium propionicum (Fitted)



Mouse 3 - Species Fit



Species Prevotella ncd1310e09c1 (Real)

Species Prevotella ncd1310e09c1 (Fitted)

Species Streptococcus cristatus (Real)

Species Streptococcus cristatus (Fitted)

Species Eggerthella lenta (Real)

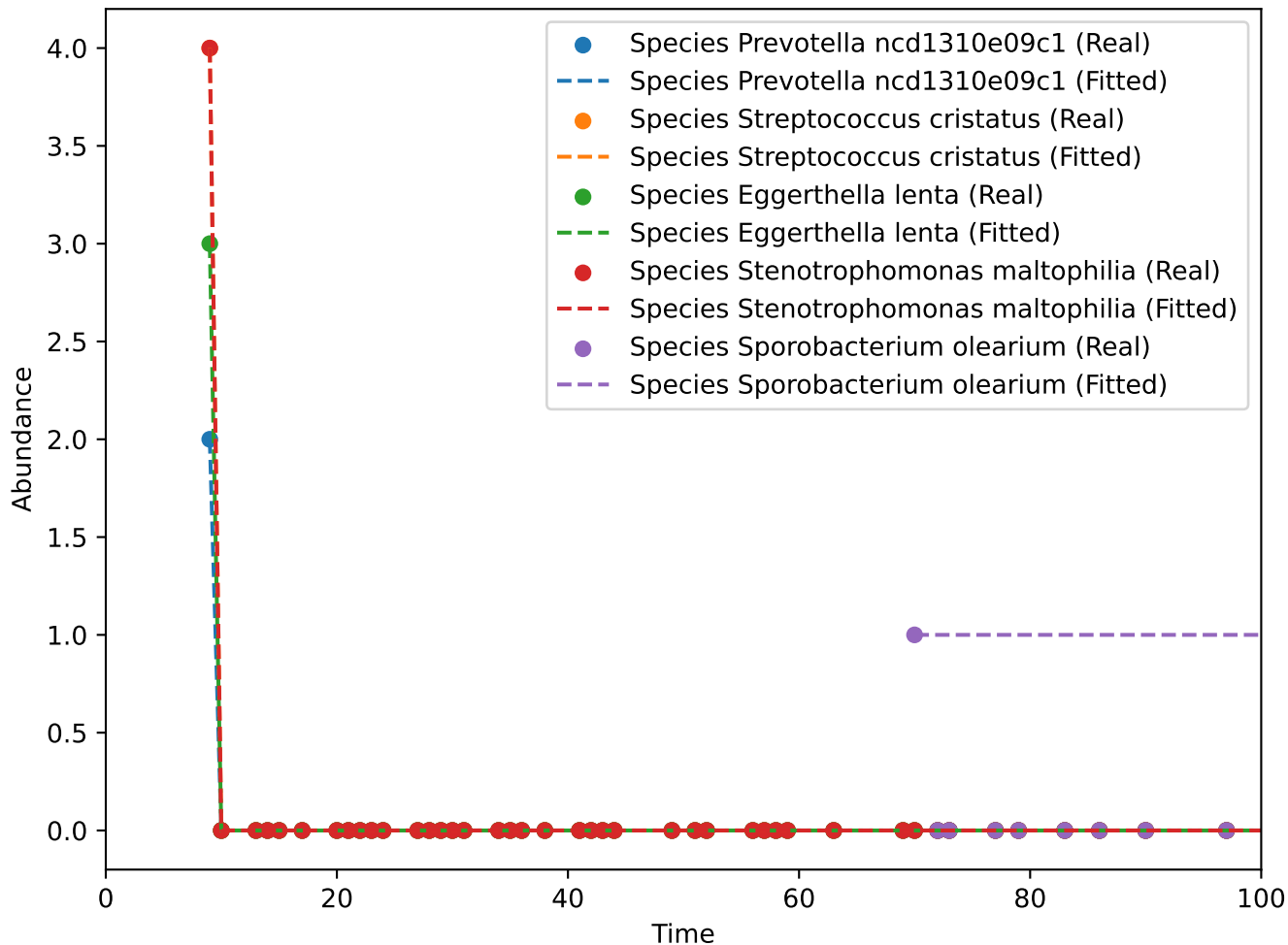
Species Eggerthella lenta (Fitted)

Species Stenotrophomonas maltophilia (Real)

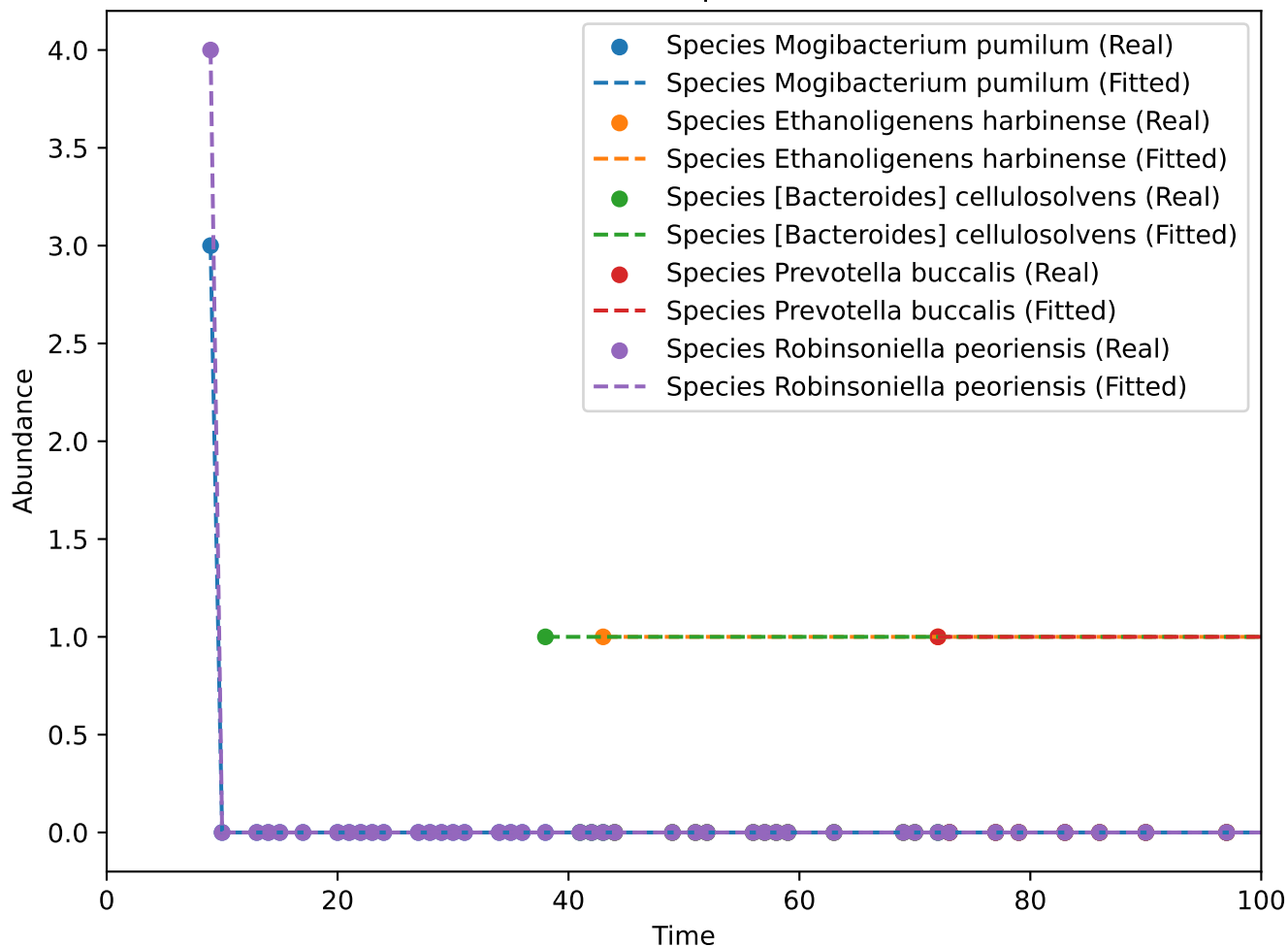
Species Stenotrophomonas maltophilia (Fitted)

Species Sporobacterium olearium (Real)

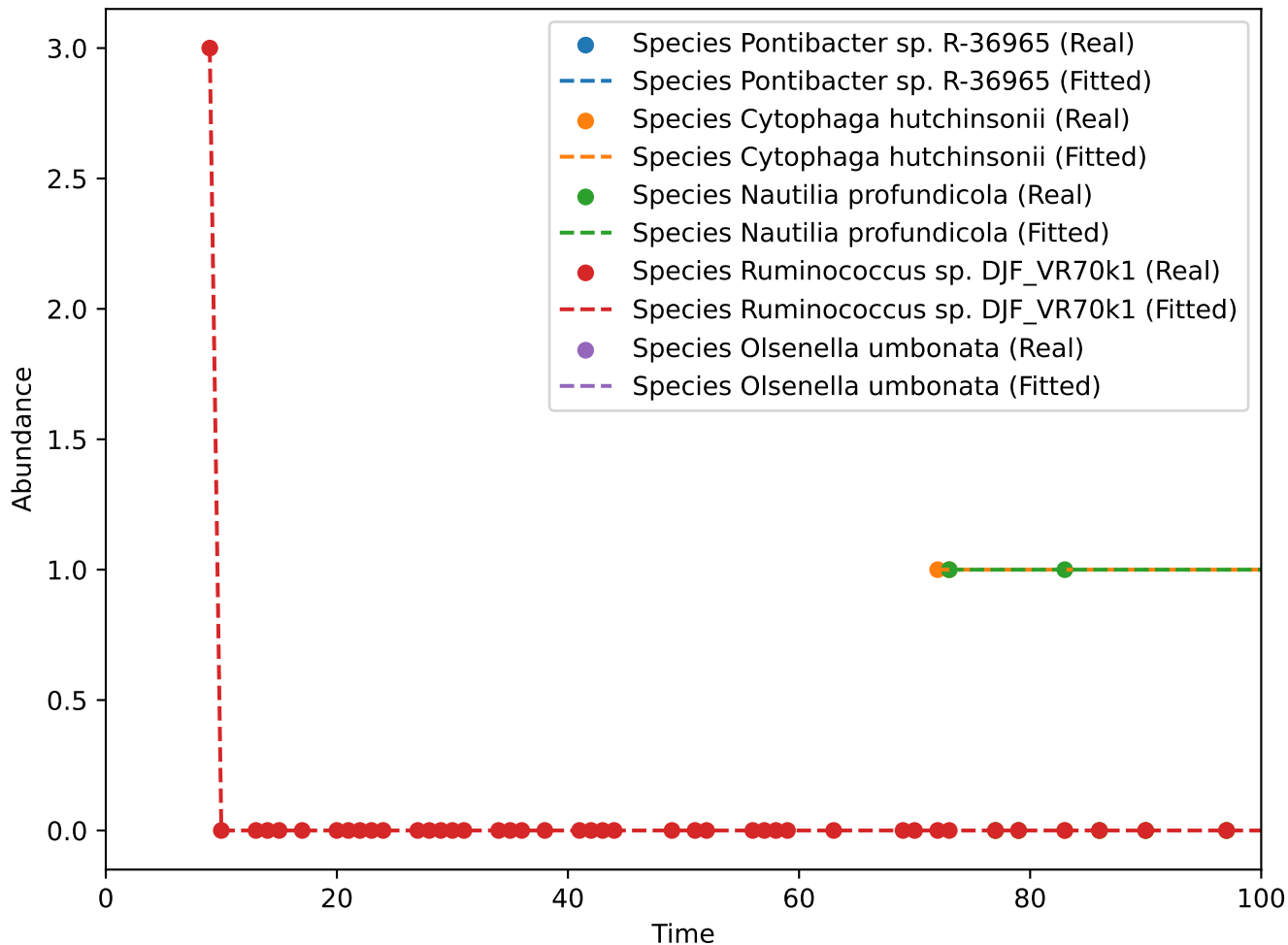
Species Sporobacterium olearium (Fitted)



Mouse 3 - Species Fit







Species Lachnospiraceae 2N1-30 (Real)

Species Lachnospiraceae 2N1-30 (Fitted)

Species Streptococcus mutans (Real)

Species Streptococcus mutans (Fitted)

Species Prevotella IK053 (Real)

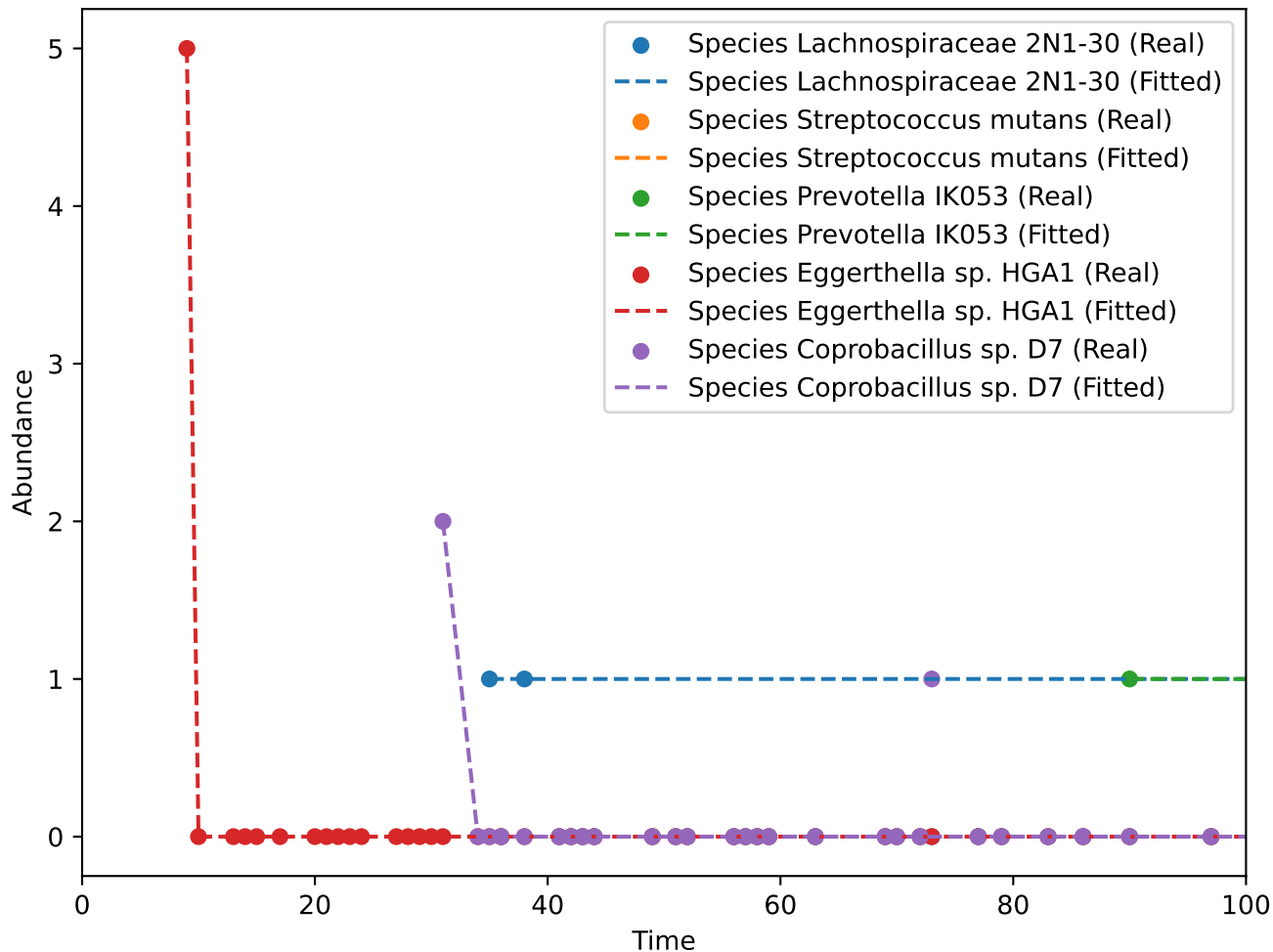
Species Prevotella IK053 (Fitted)

Species Eggerthella sp. HGA1 (Real)

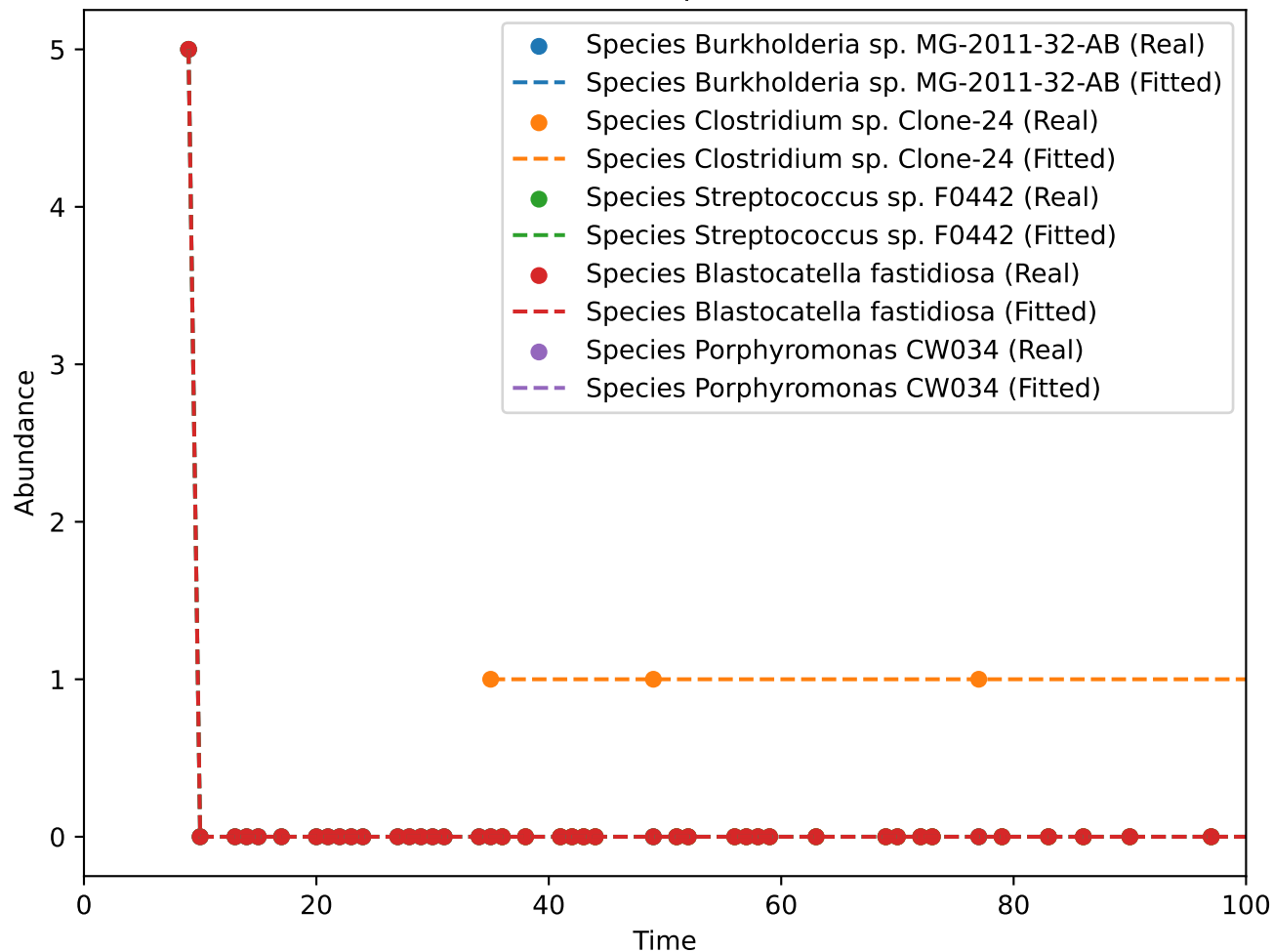
Species Eggerthella sp. HGA1 (Fitted)

Species Coprobacillus sp. D7 (Real)

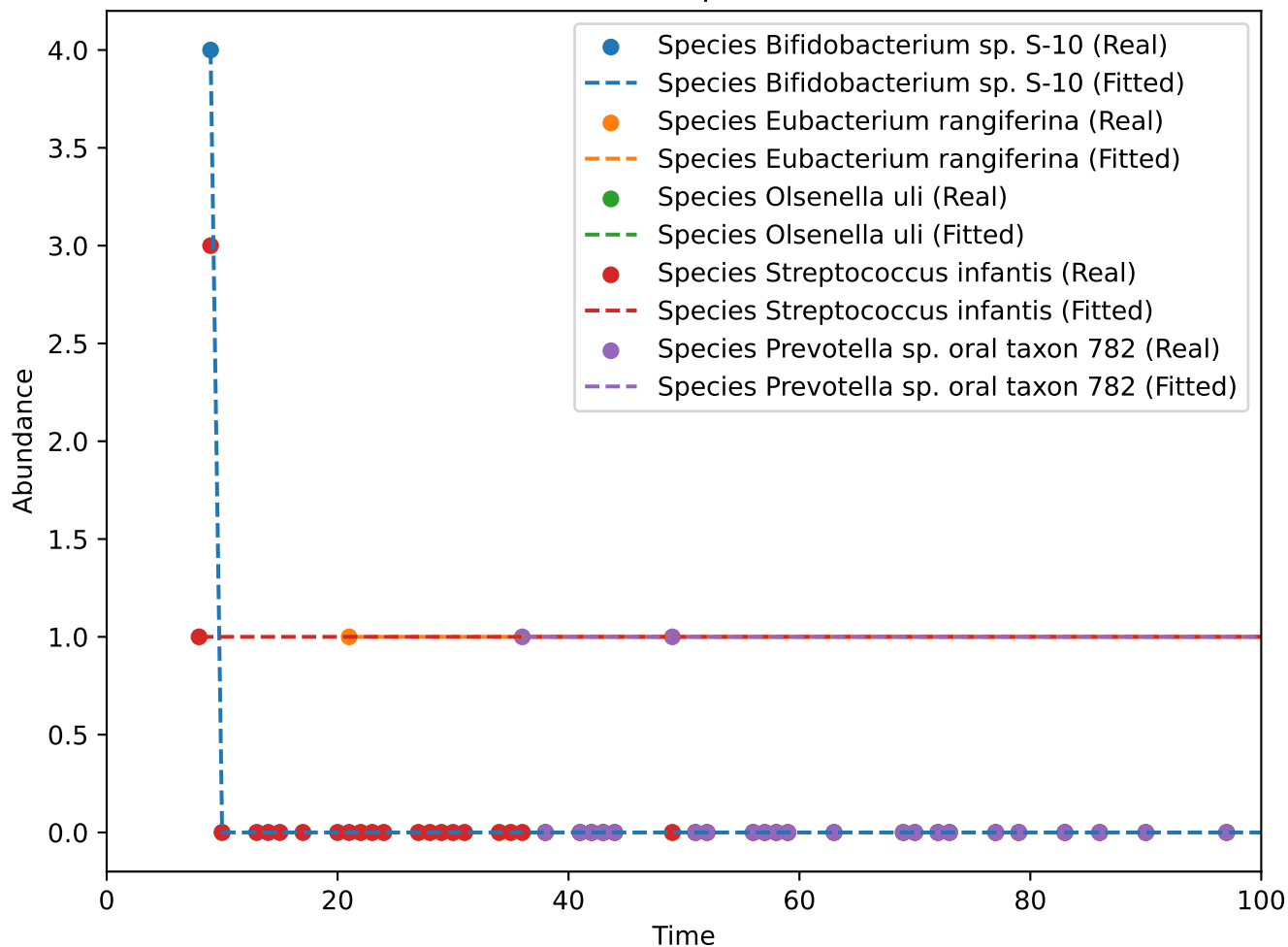
Species Coprobacillus sp. D7 (Fitted)



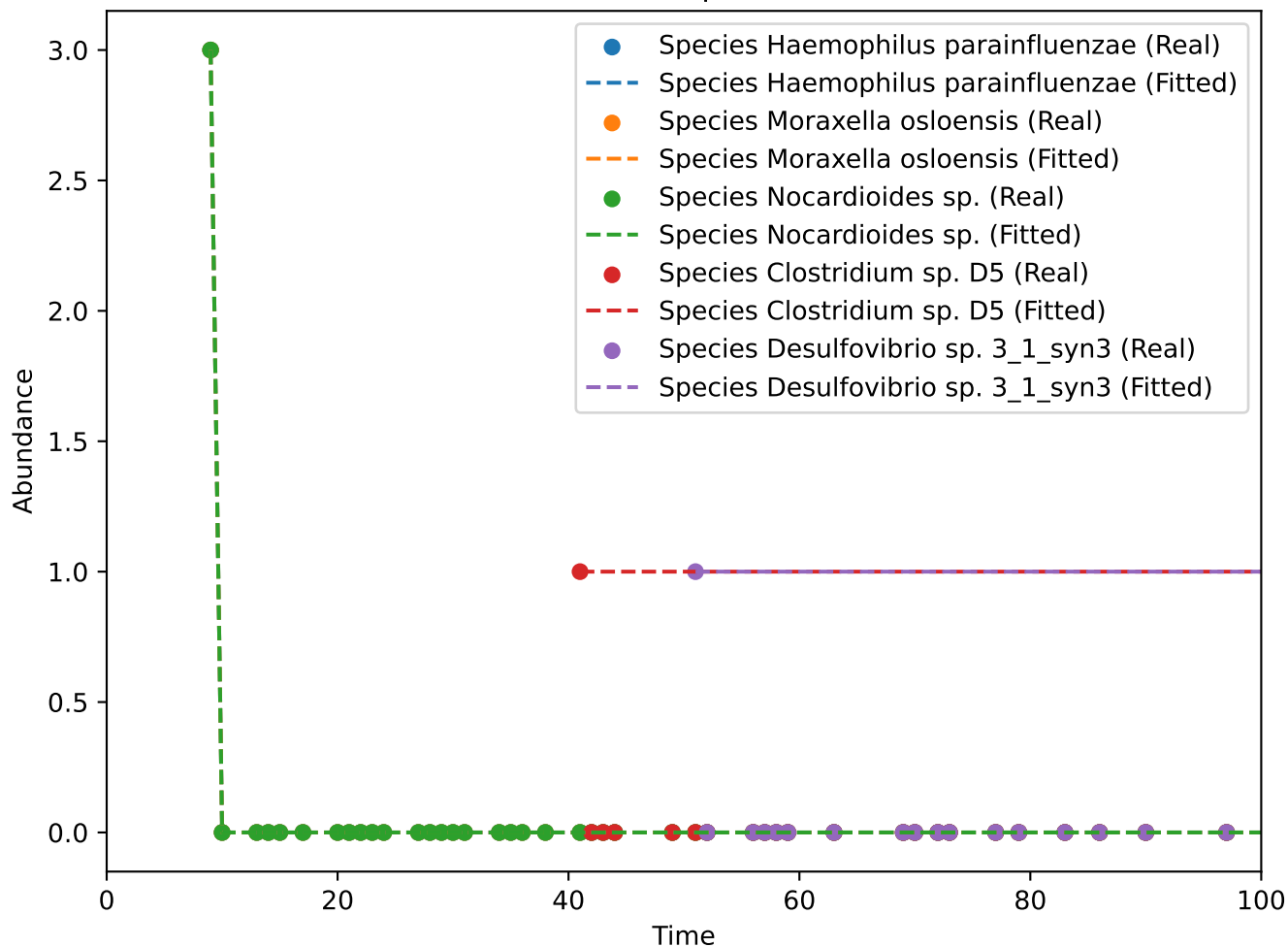
Mouse 3 - Species Fit



Mouse 3 - Species Fit

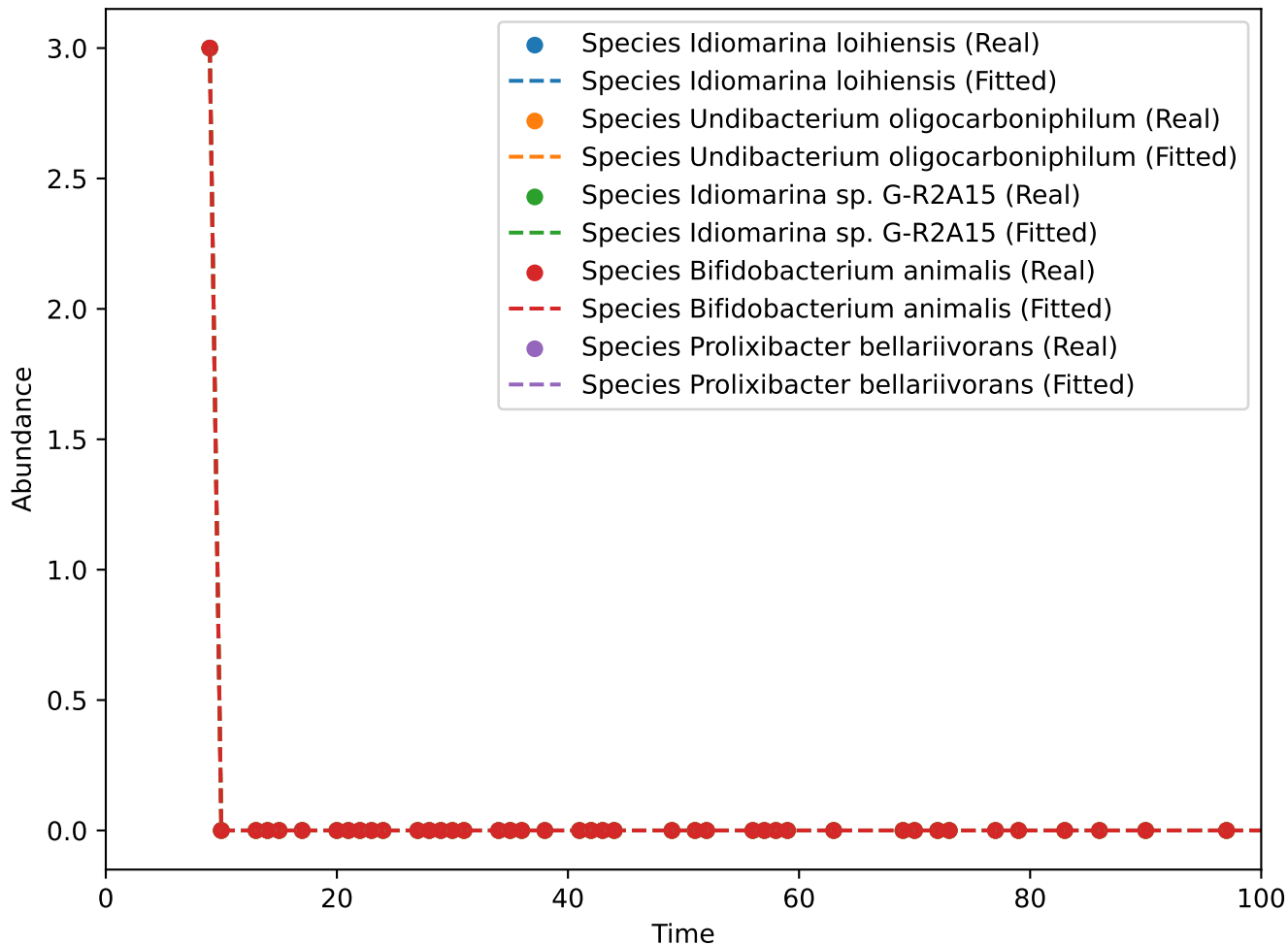


Mouse 3 - Species Fit



Species Bifidobacterium animalis (Real)

Species Bifidobacterium animalis (Fitted)



\_\_\_\_\_

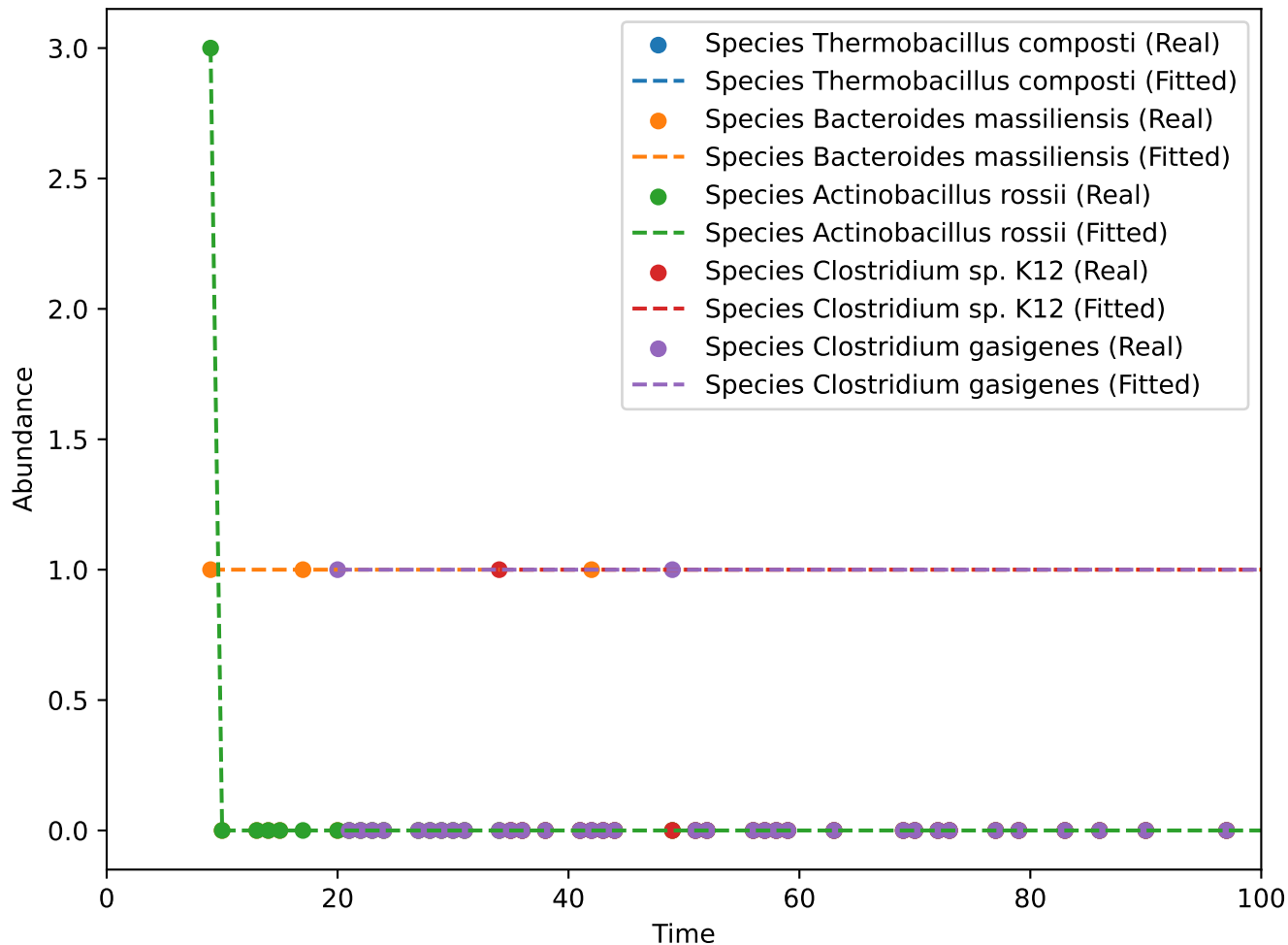
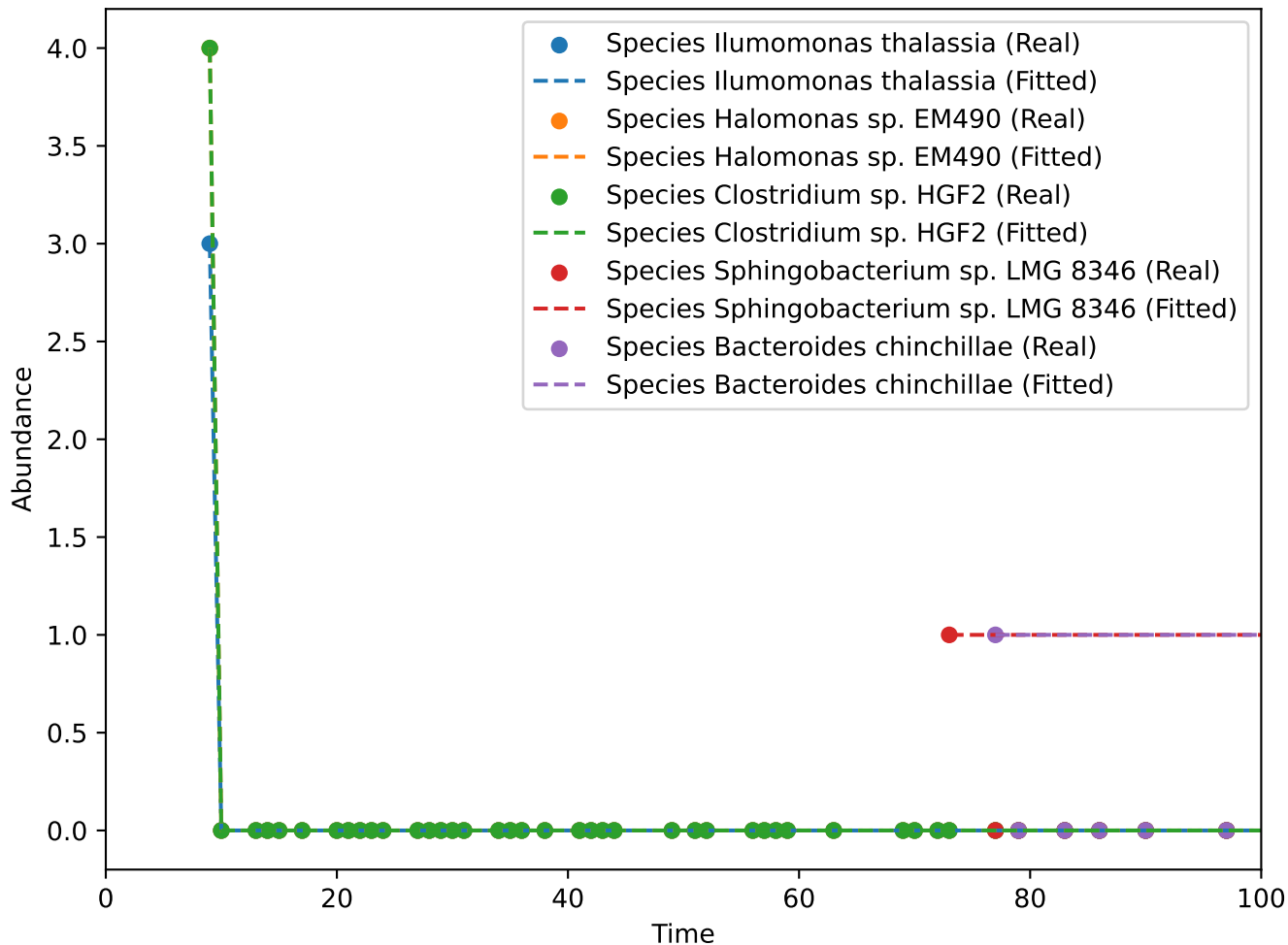


Figure 1 is a scatter plot with fitted curves showing the relationship between the number of reads (X-axis) and the number of reads (Y-axis) for five different species. The X-axis ranges from 0 to 100, and the Y-axis ranges from 0 to 100. The legend identifies the following series:

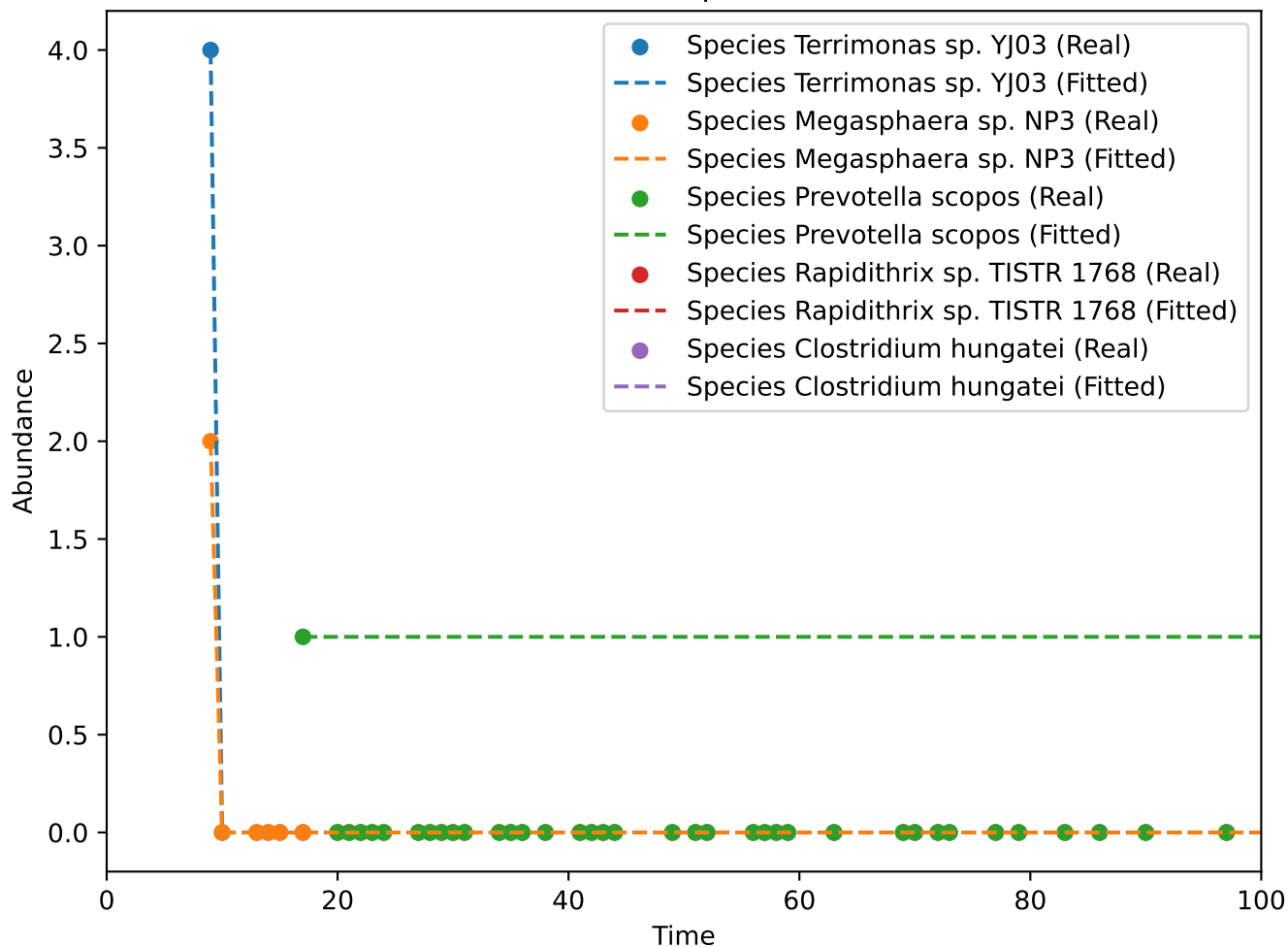
- Species *Illumomonas thalassia* (Real): Blue solid line with circular markers.
- Species *Illumomonas thalassia* (Fitted): Blue dashed line.
- Species *Halomonas* sp. EM490 (Real): Orange solid line with circular markers.
- Species *Halomonas* sp. EM490 (Fitted): Orange dashed line.
- Species *Clostridium* sp. HGF2 (Real): Green solid line with circular markers.
- Species *Clostridium* sp. HGF2 (Fitted): Green dashed line.
- Species *Sphingobacterium* sp. LMG 8346 (Real): Red solid line with circular markers.
- Species *Sphingobacterium* sp. LMG 8346 (Fitted): Red dashed line.
- Species *Bacteroides chinchillae* (Real): Purple solid line with circular markers.
- Species *Bacteroides chinchillae* (Fitted): Purple dashed line.

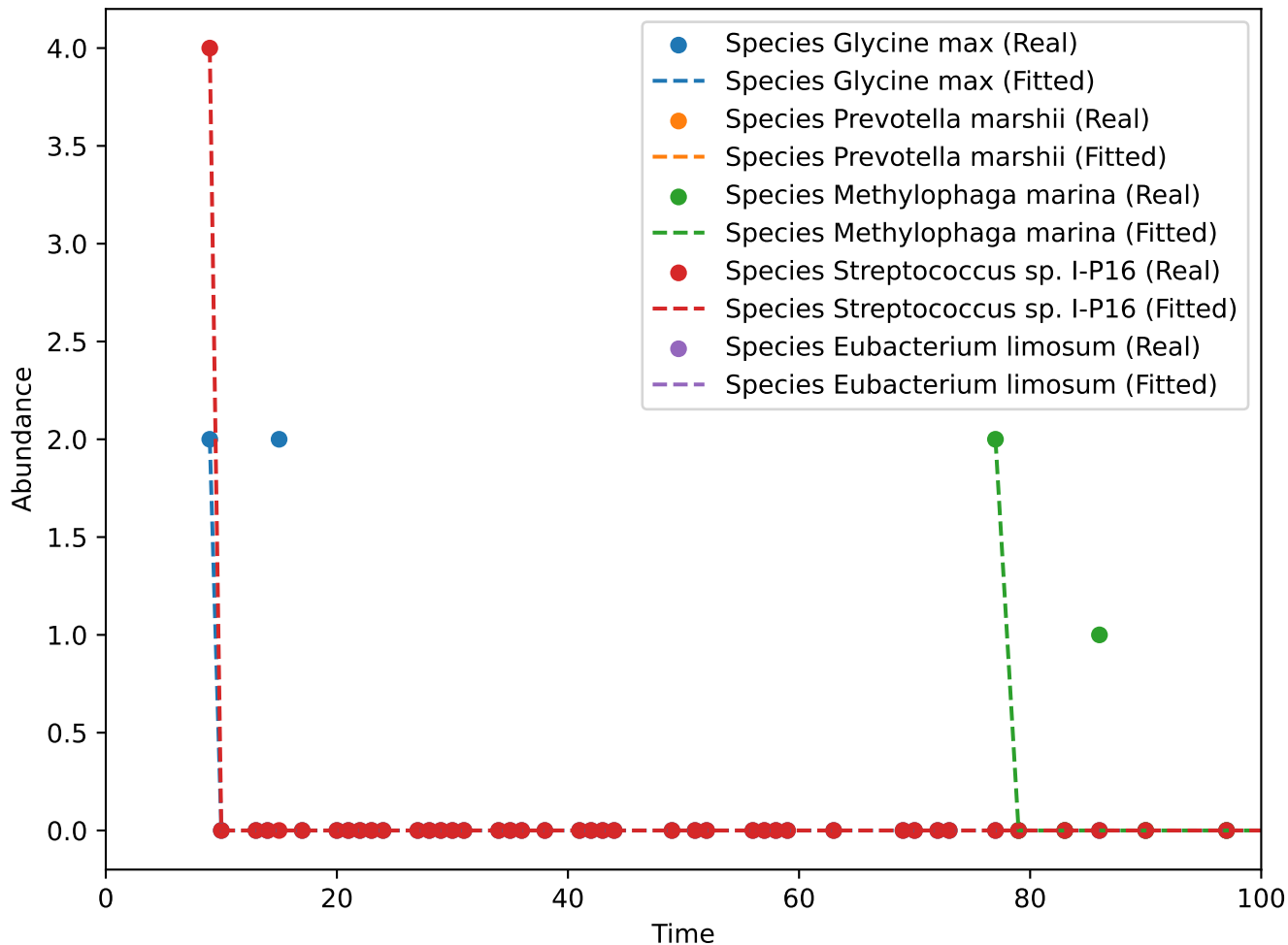
The plot shows that for most species, the number of reads is low (below 10) for most of the range, with a sharp increase at the beginning (X=0 to X=10). The fitted curves are generally smooth and follow the trend of the real data points. The species *Sphingobacterium* sp. LMG 8346 and *Bacteroides chinchillae* show a distinct peak around X=75.

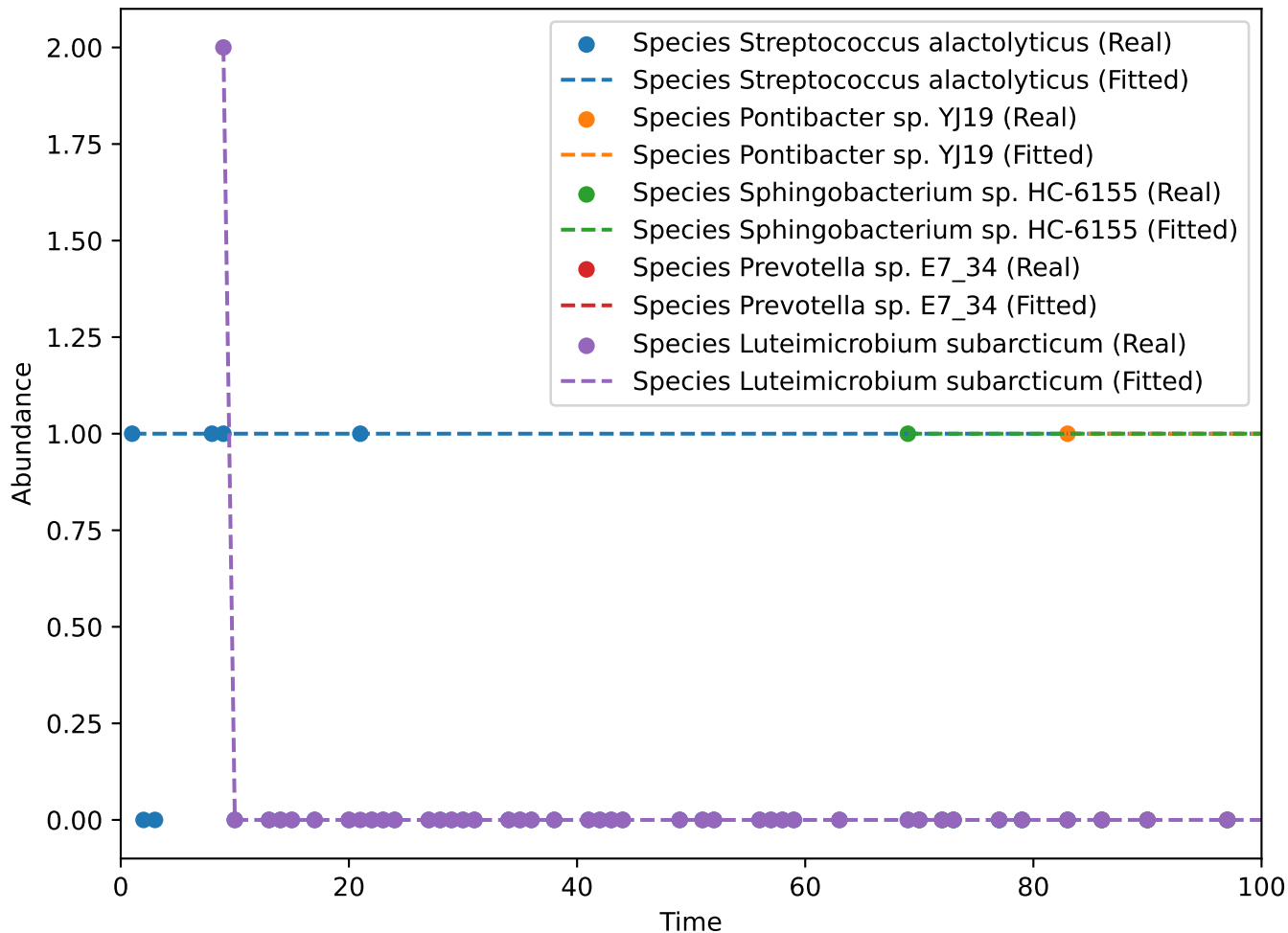




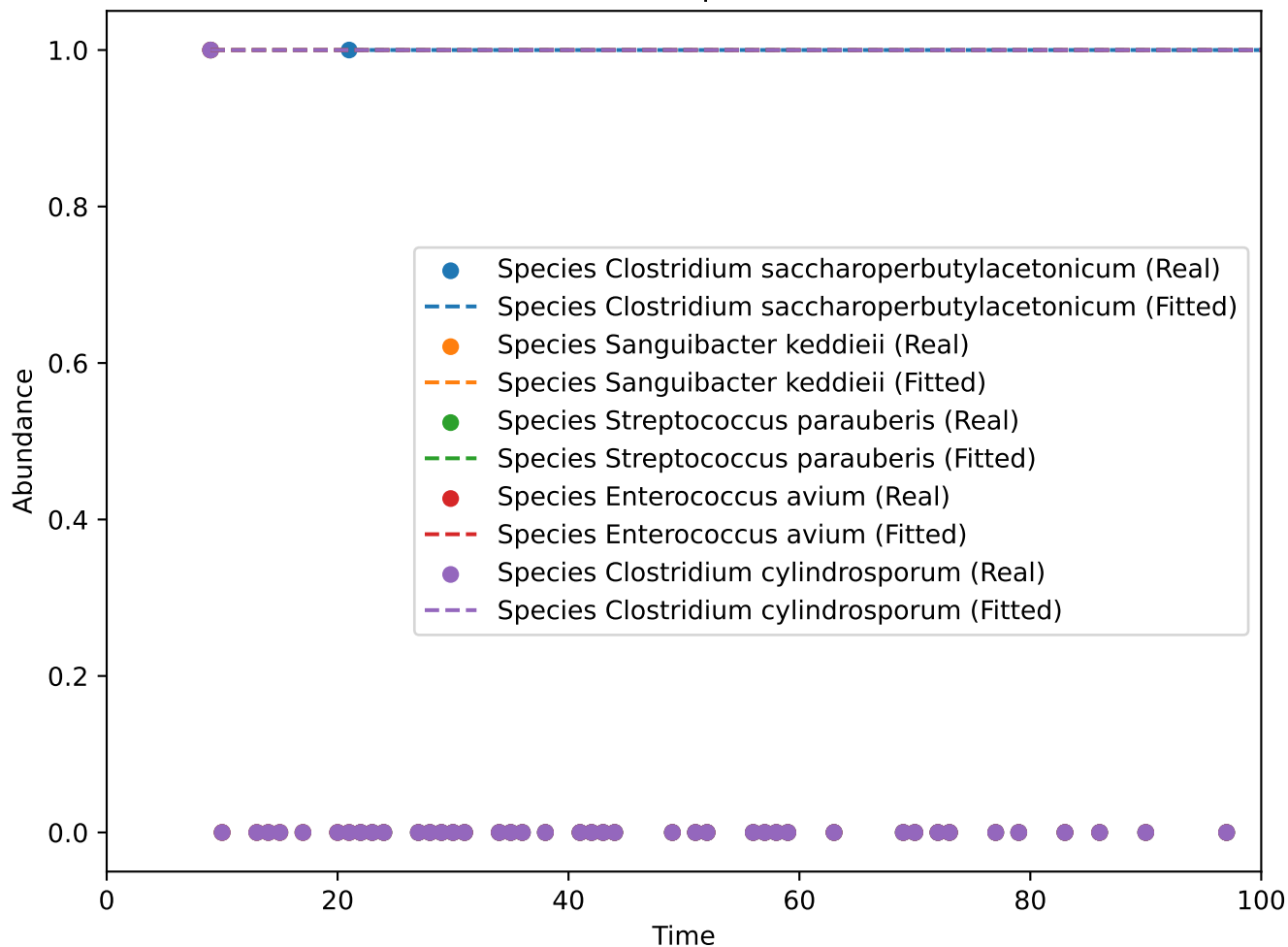
Mouse 3 - Species Fit



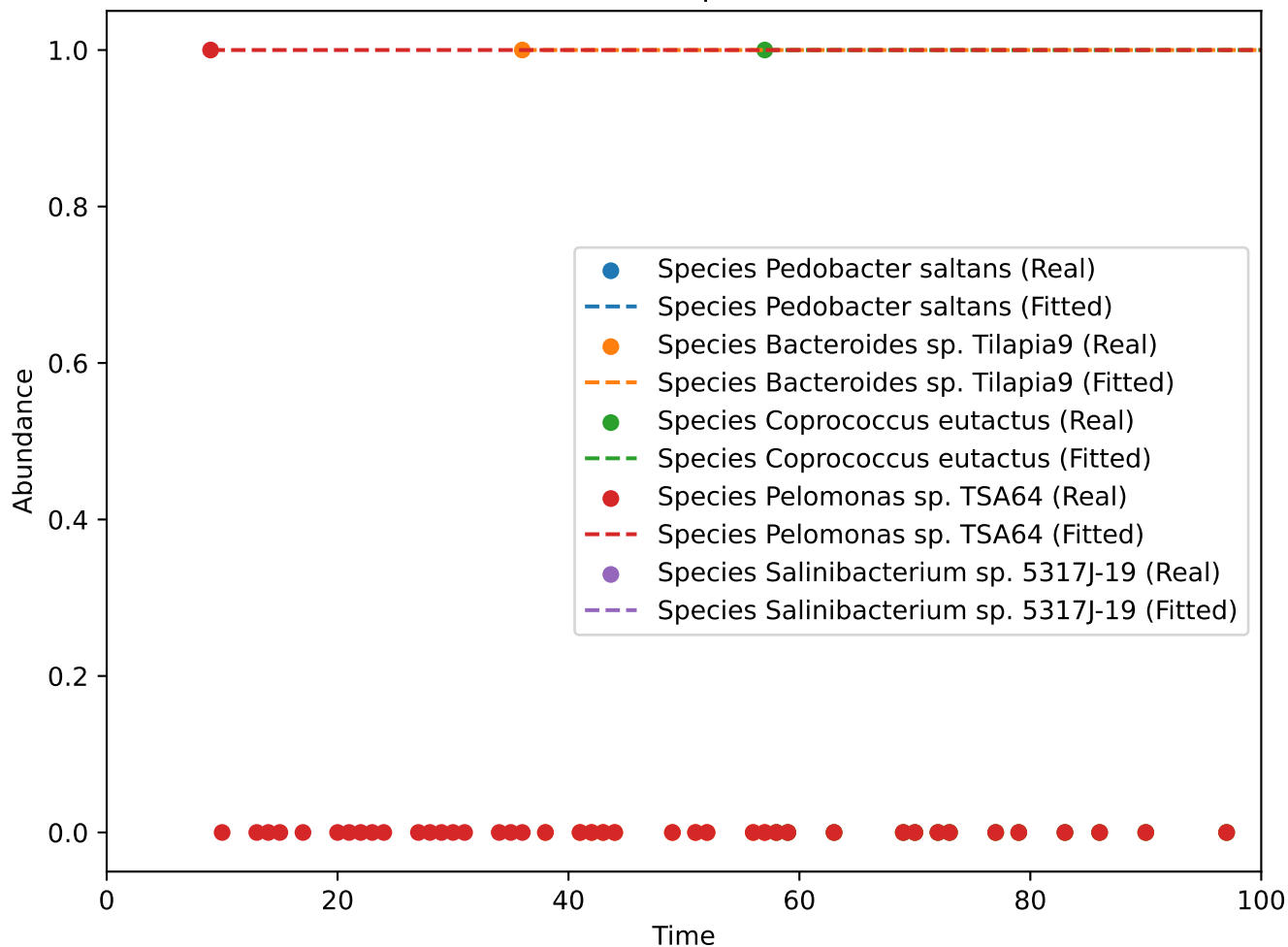


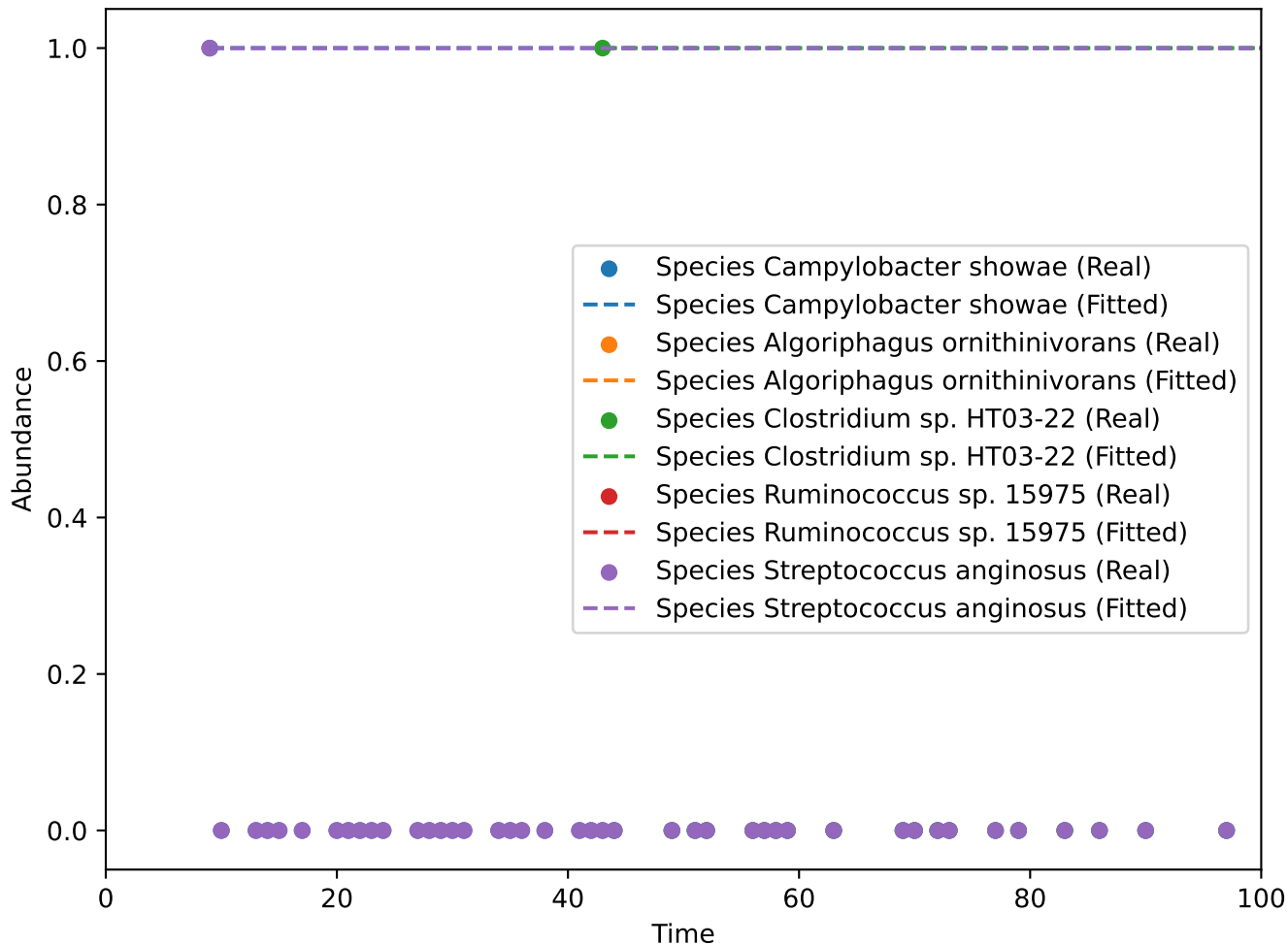


Mouse 3 - Species Fit

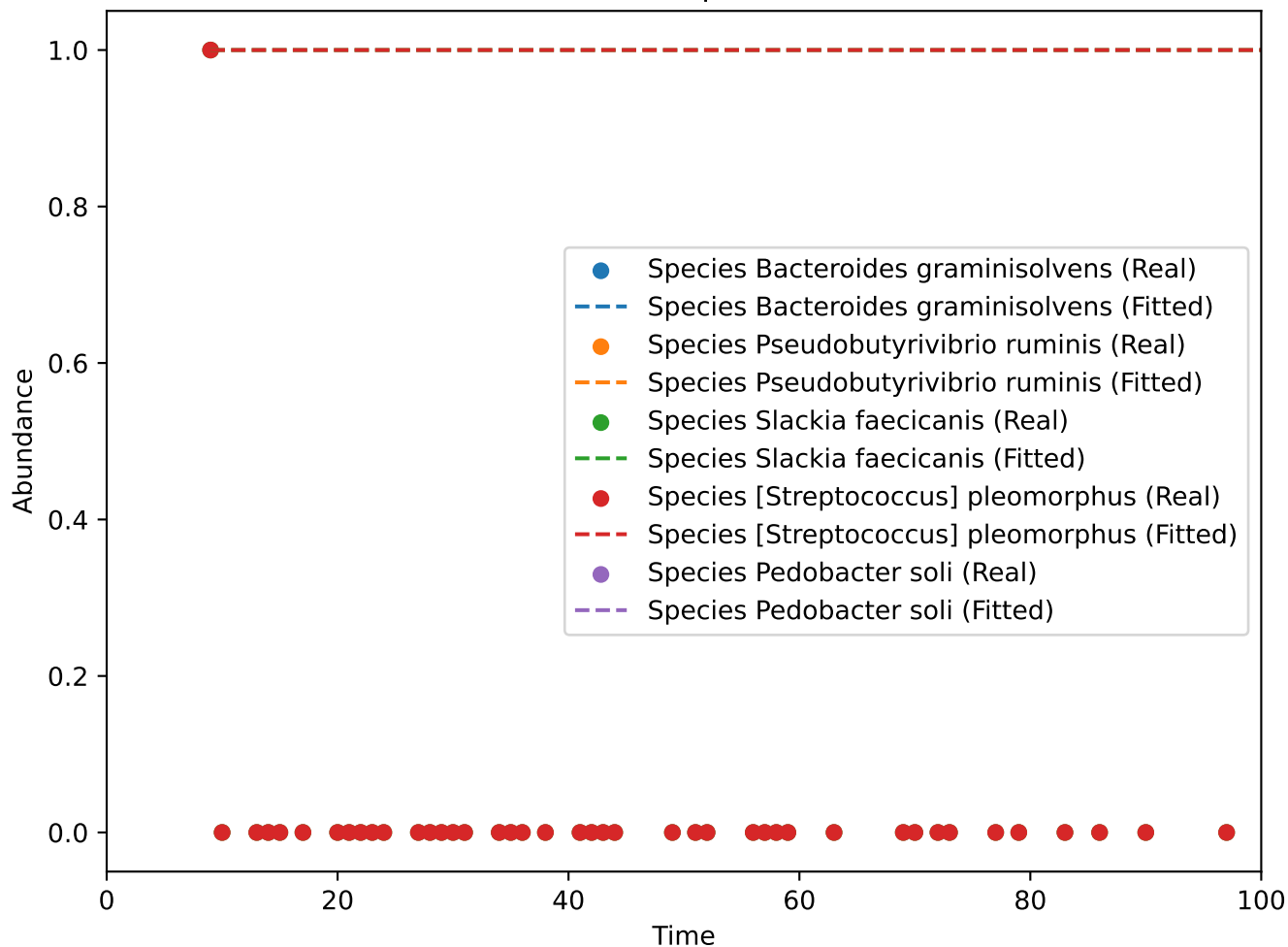


Mouse 3 - Species Fit

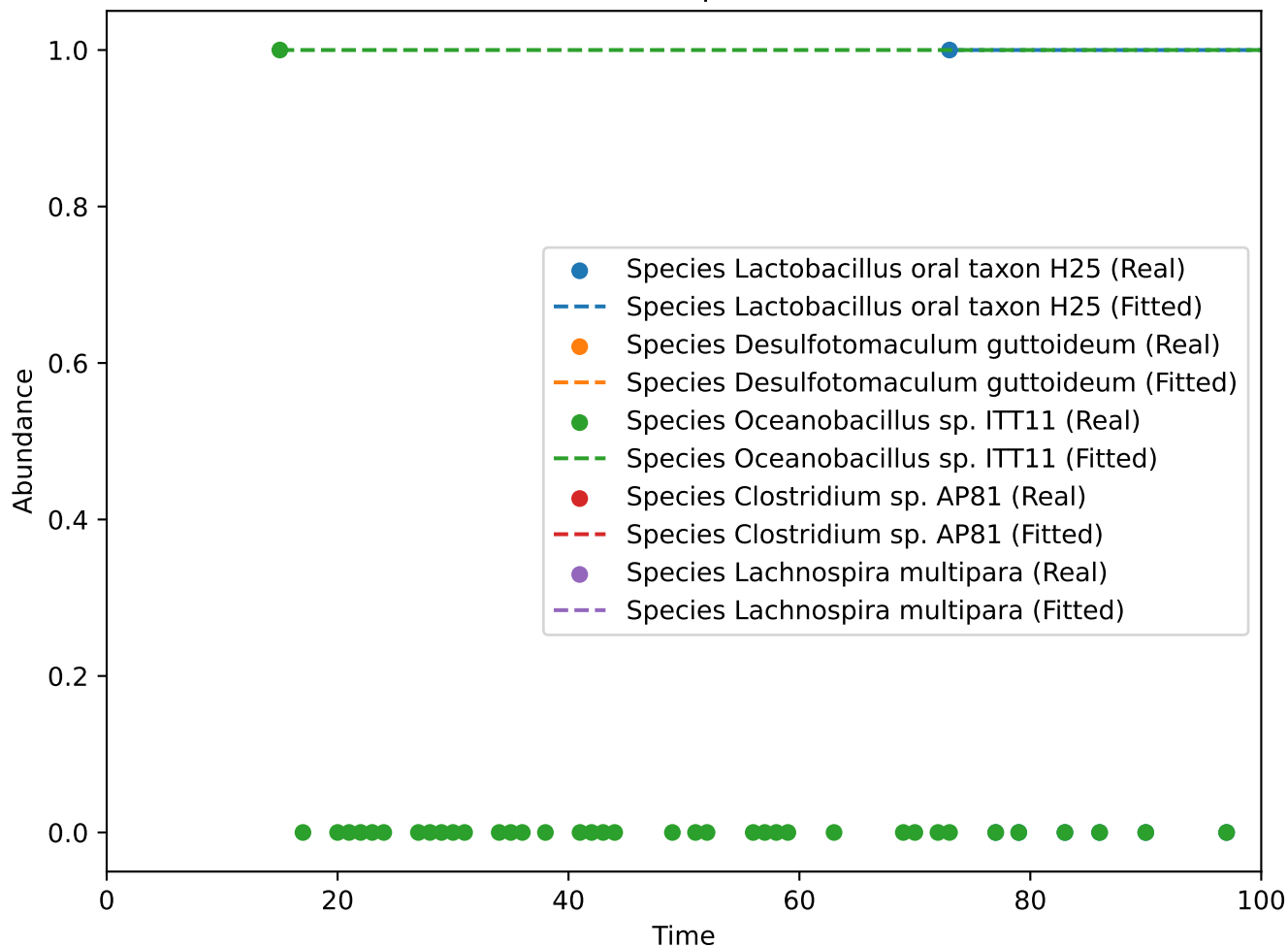




Mouse 3 - Species Fit

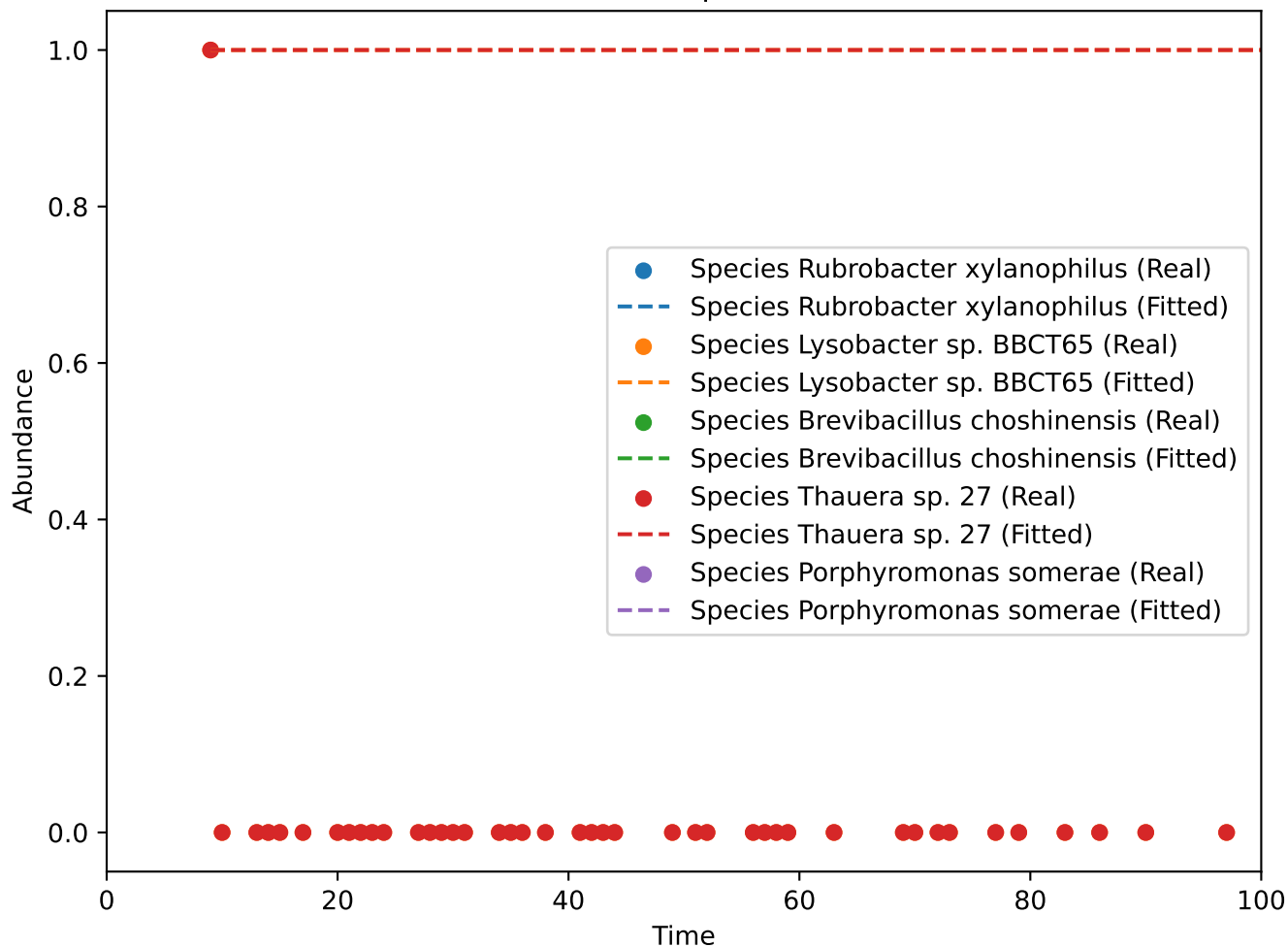


Mouse 3 - Species Fit

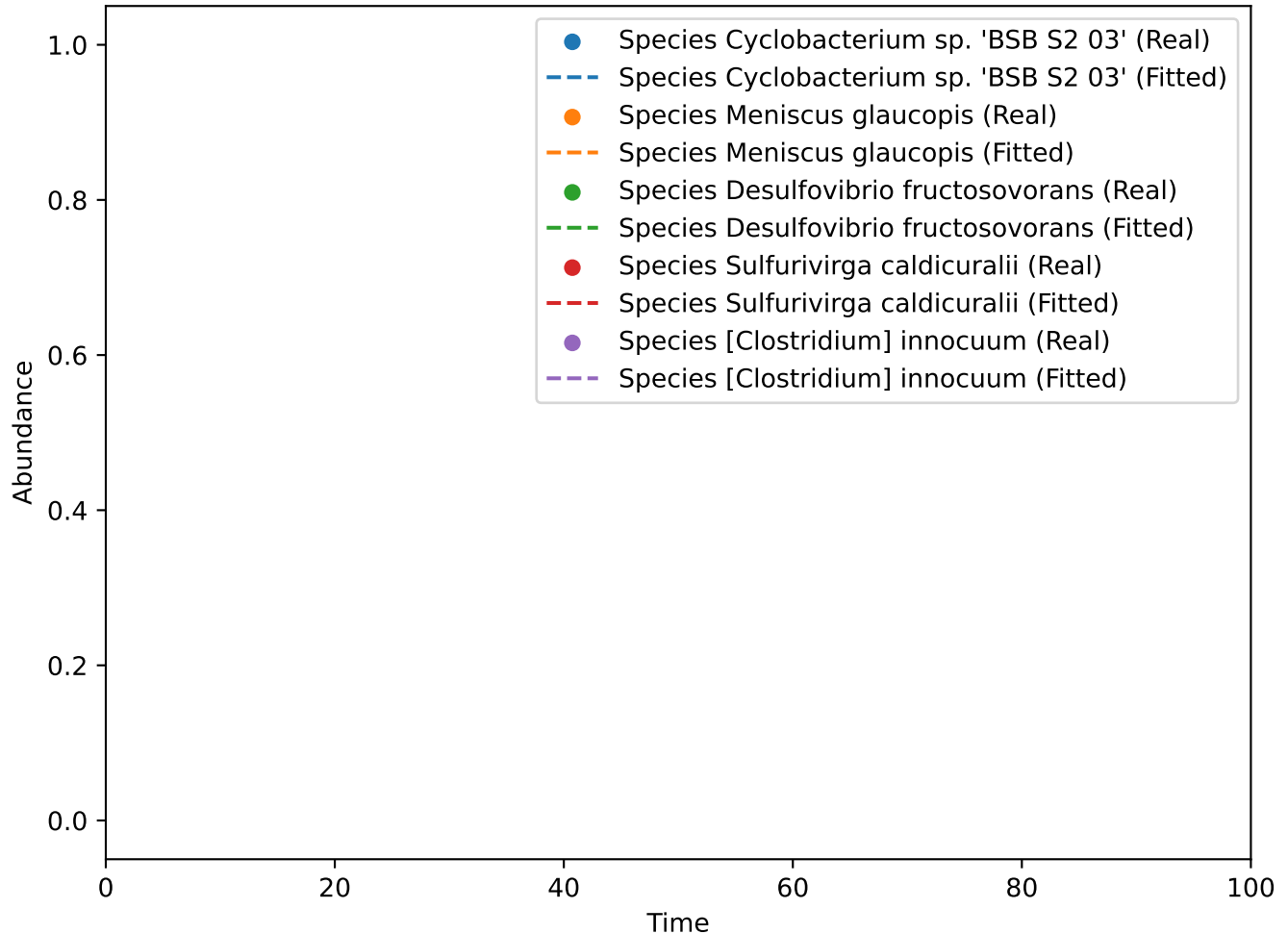




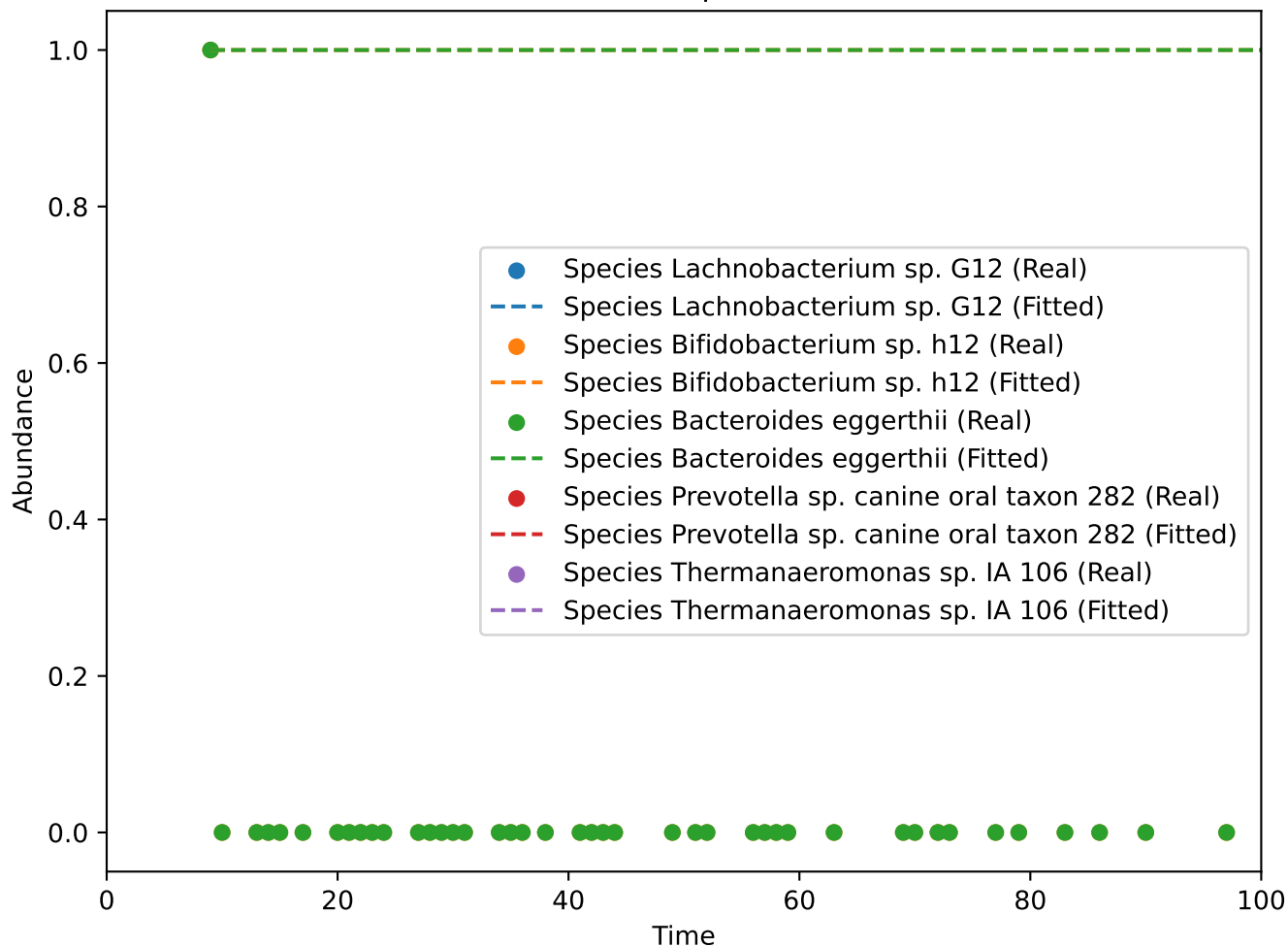
Mouse 3 - Species Fit



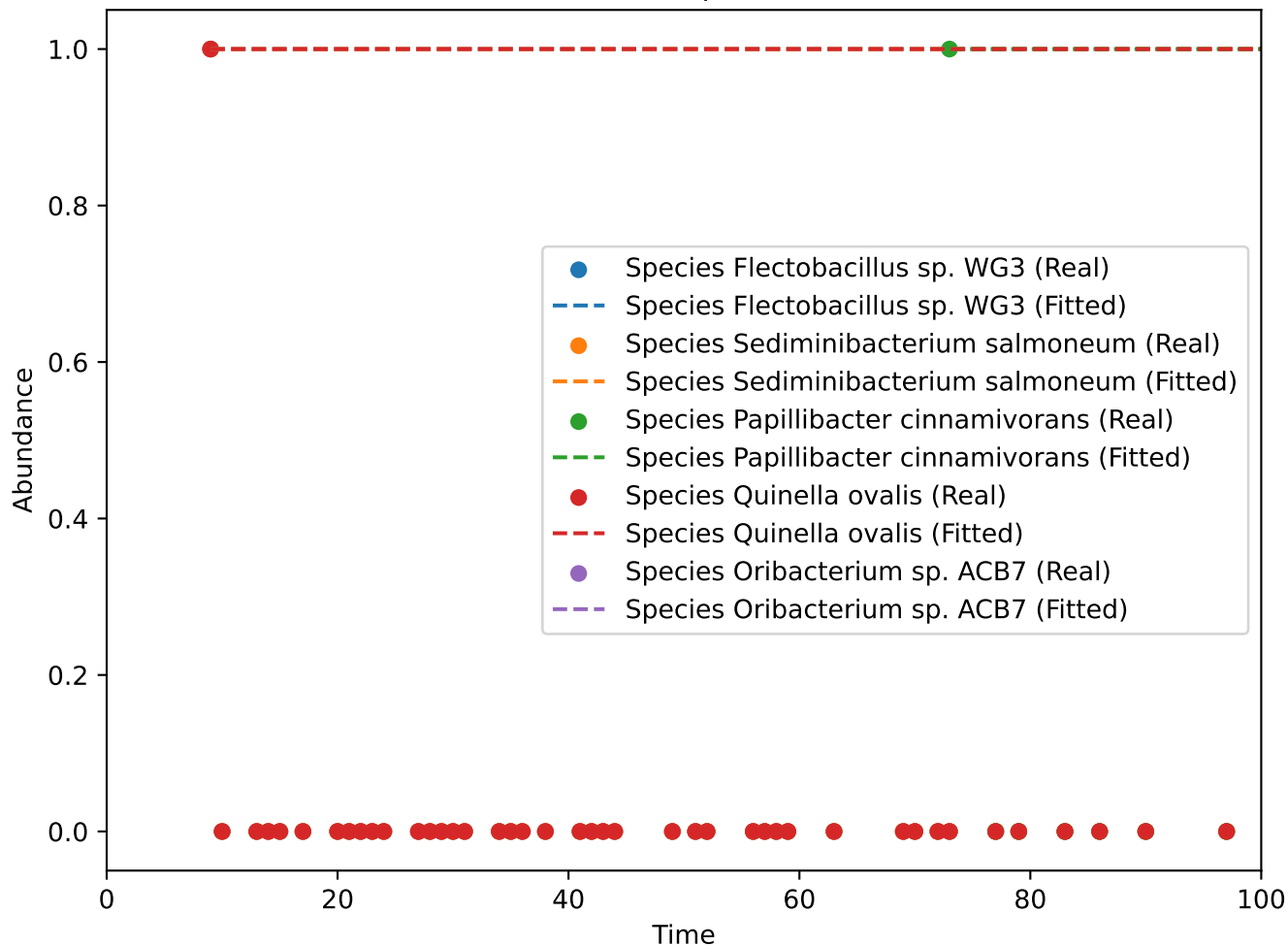
### Mouse 3 - Species Fit



Mouse 3 - Species Fit



Mouse 3 - Species Fit



Species Janthinobacterium lividum (Real)

Species Janthinobacterium lividum (Fitted)

Species Burkholderia multivorans (Real)

Species Burkholderia multivorans (Fitted)

Species Auraticoccus monumenti (Real)

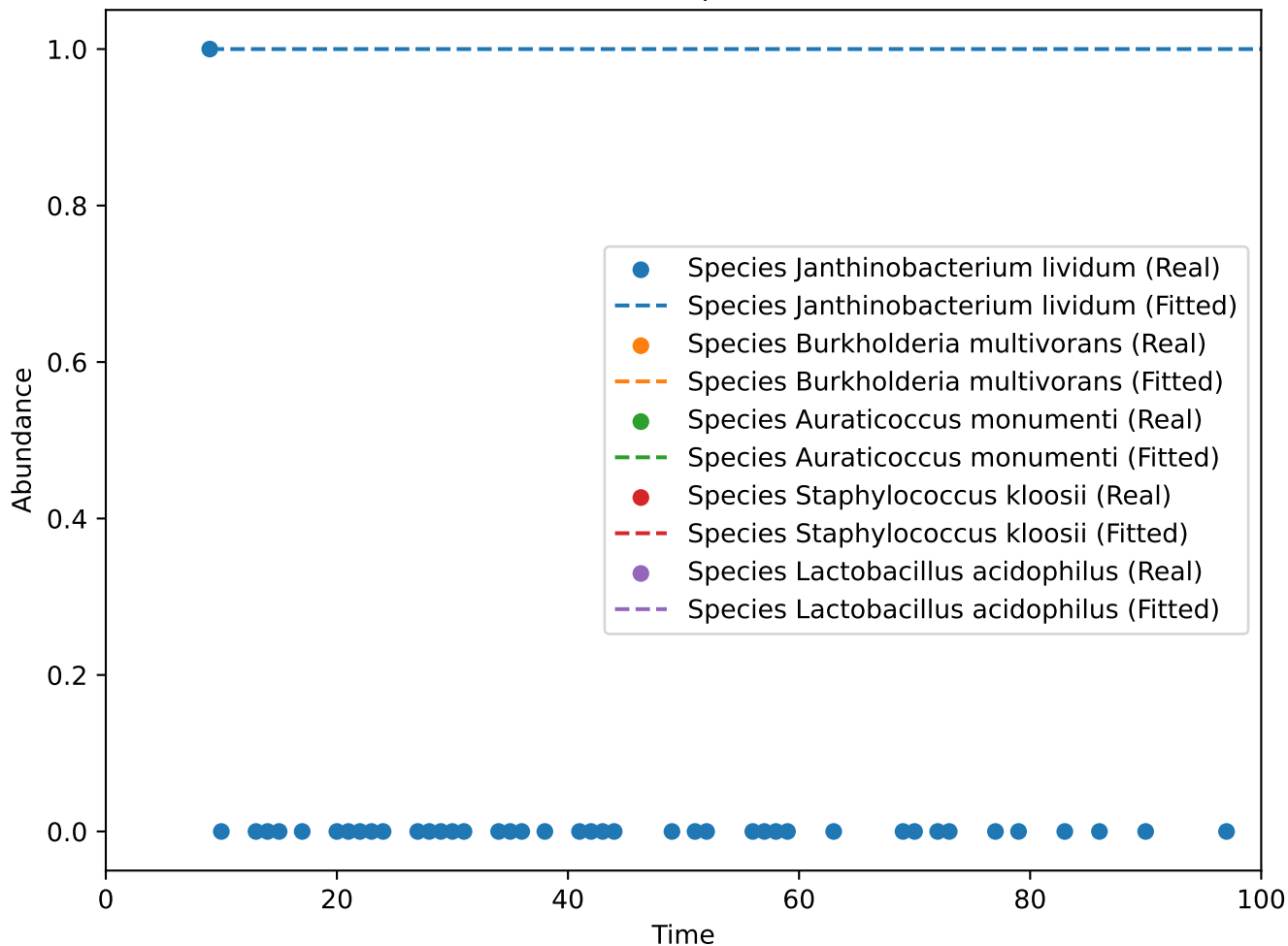
Species Auraticoccus monumenti (Fitted)

Species Staphylococcus kloosii (Real)

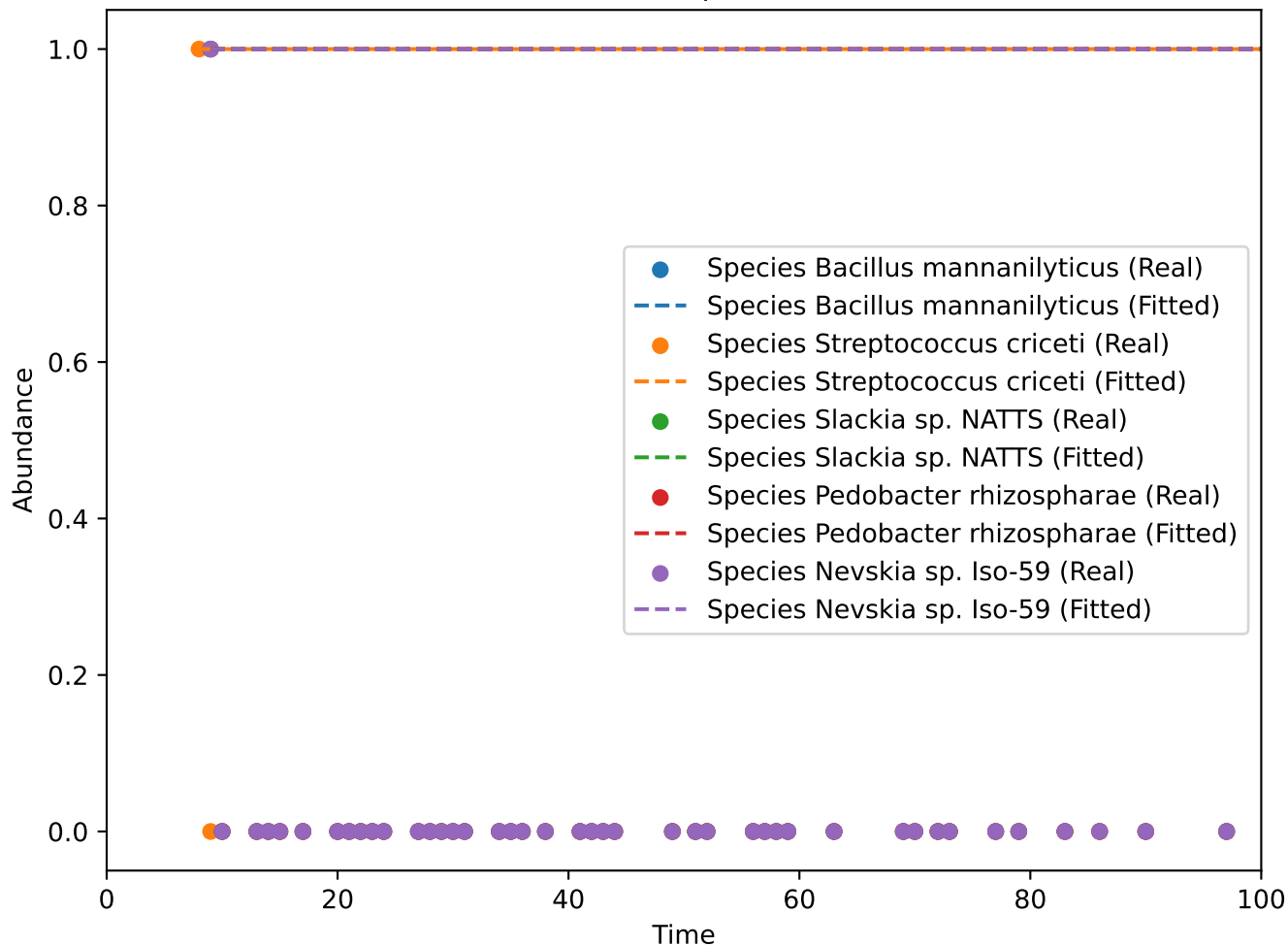
Species Staphylococcus kloosii (Fitted)

Species Lactobacillus acidophilus (Real)

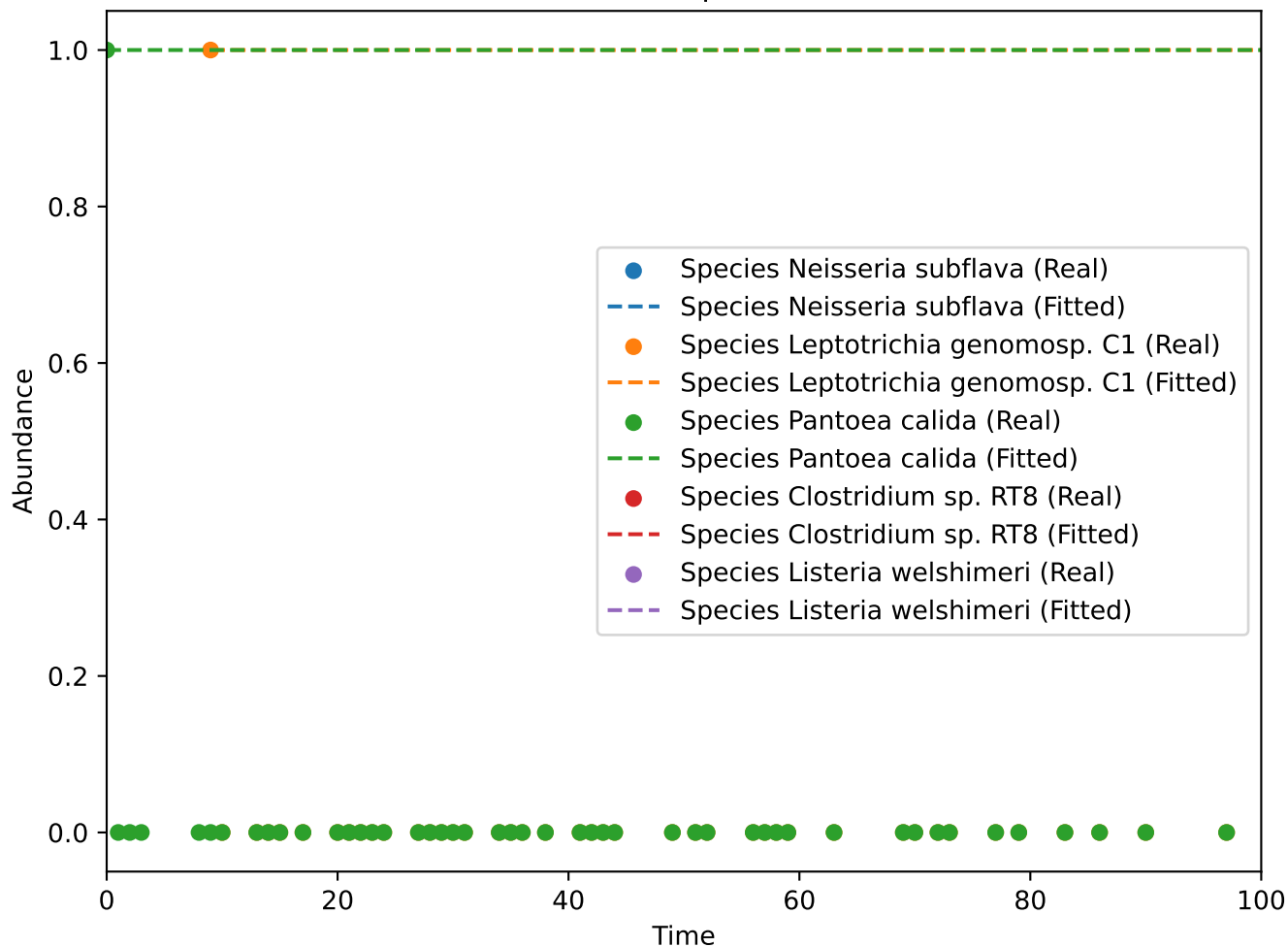
Species Lactobacillus acidophilus (Fitted)



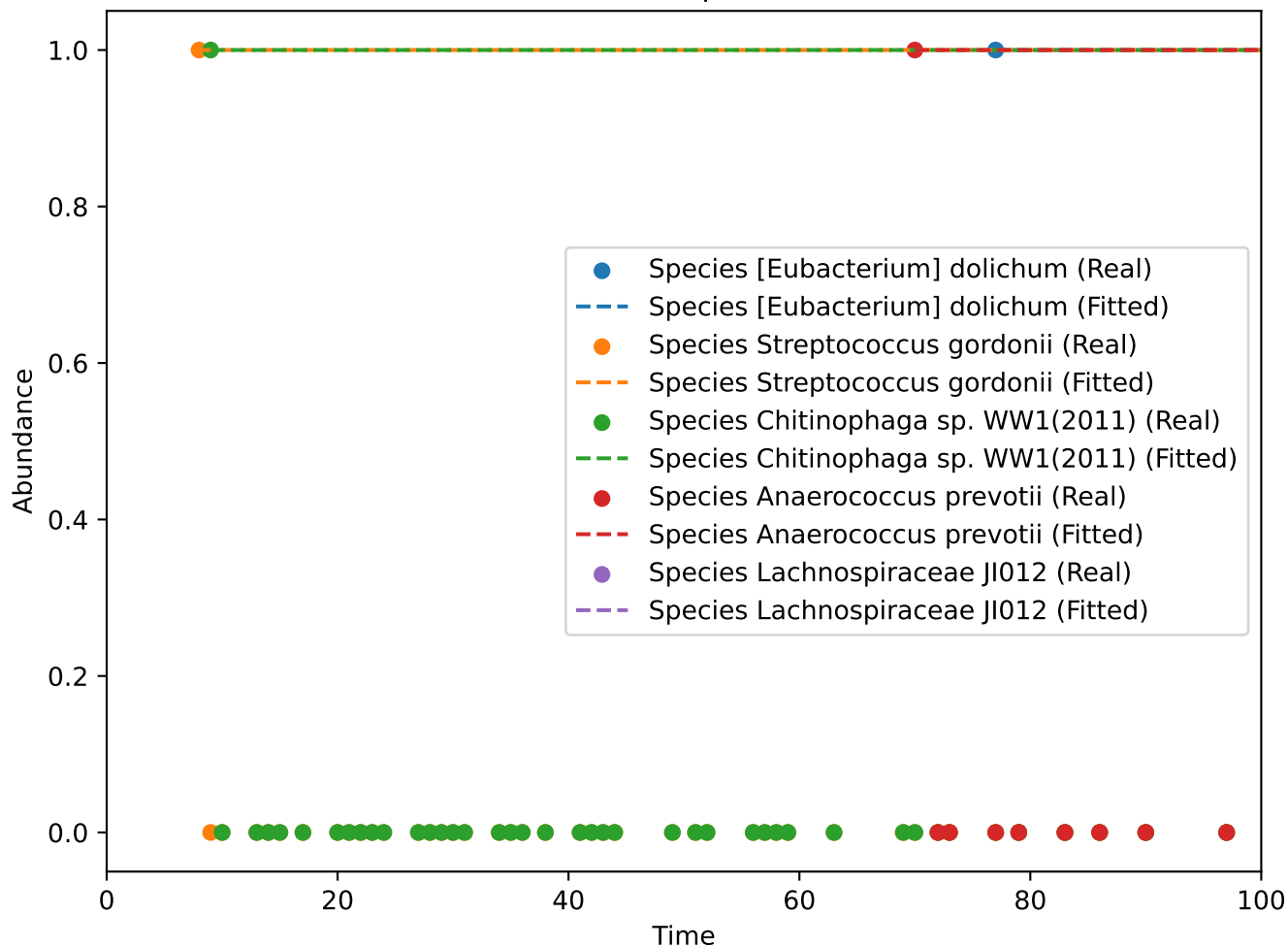
Mouse 3 - Species Fit



Mouse 3 - Species Fit

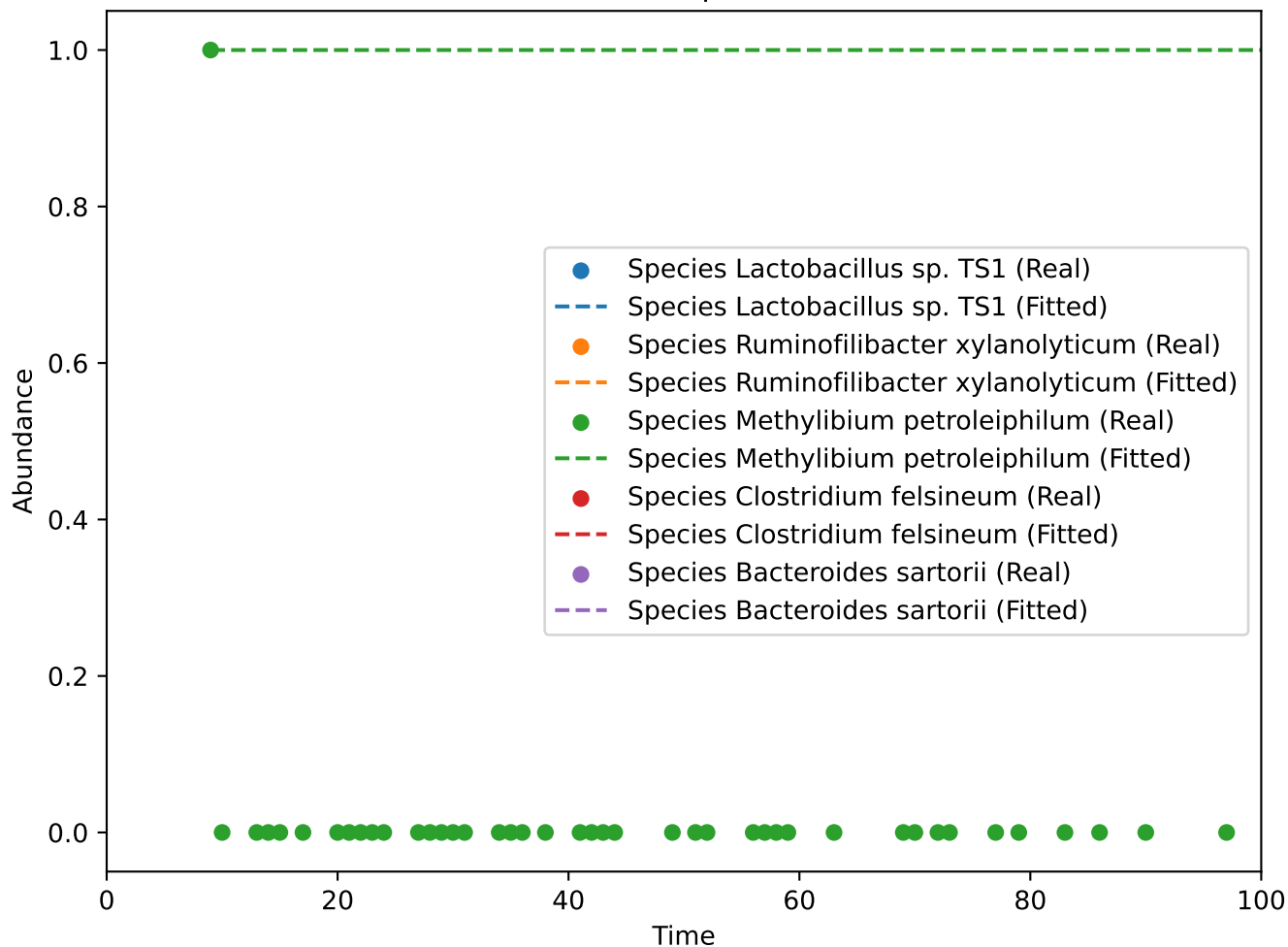


Mouse 3 - Species Fit

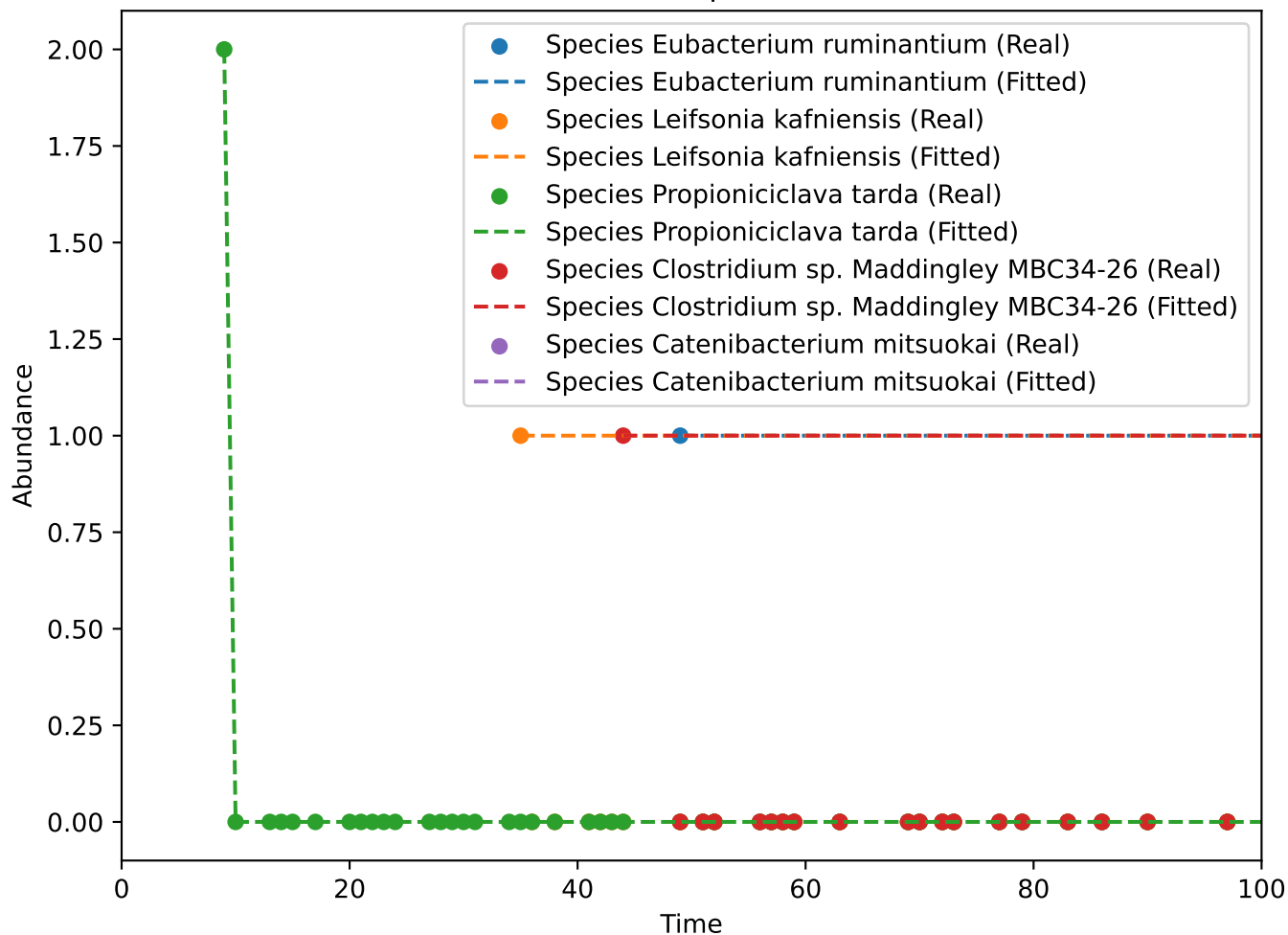




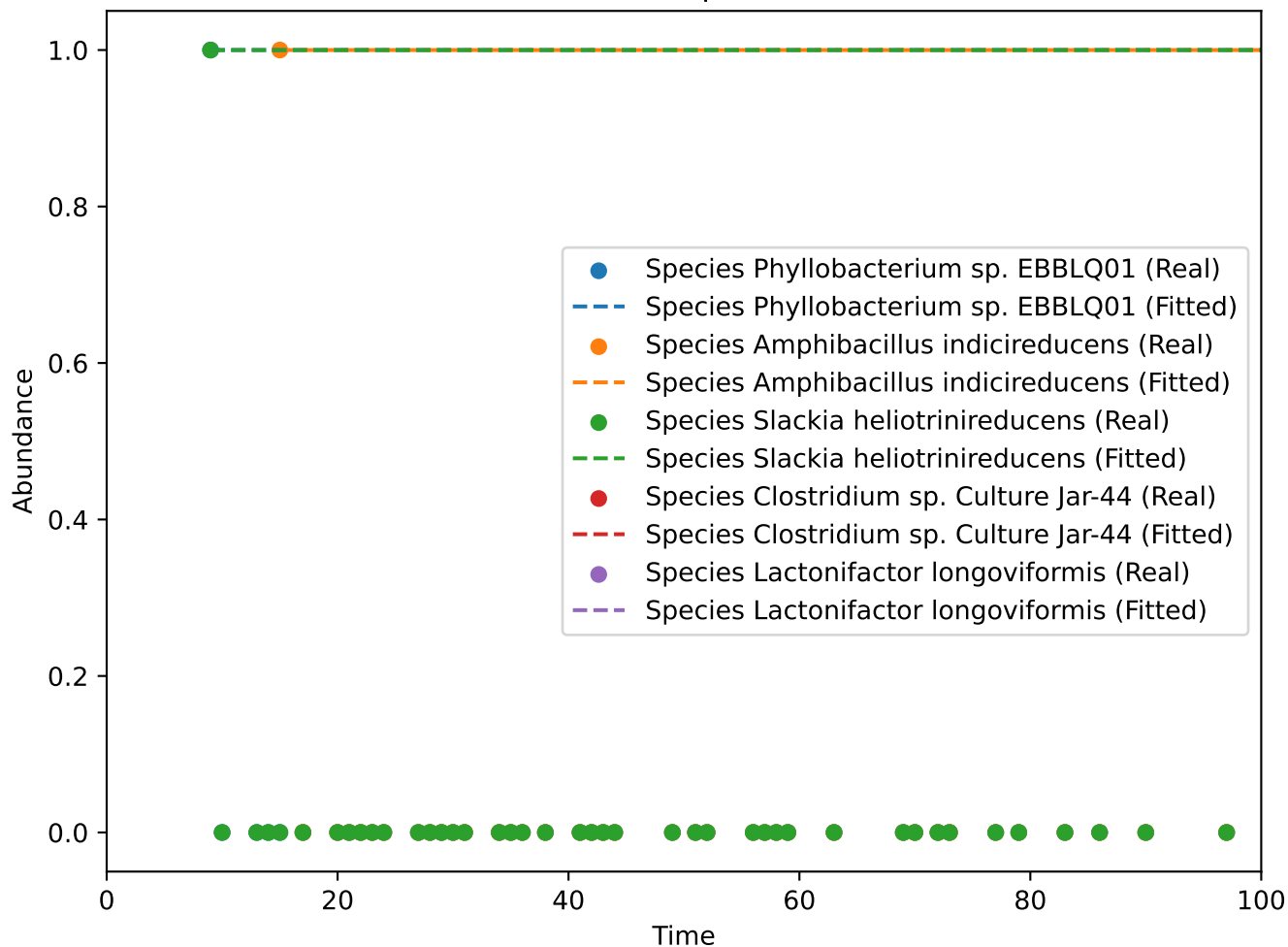
Mouse 3 - Species Fit



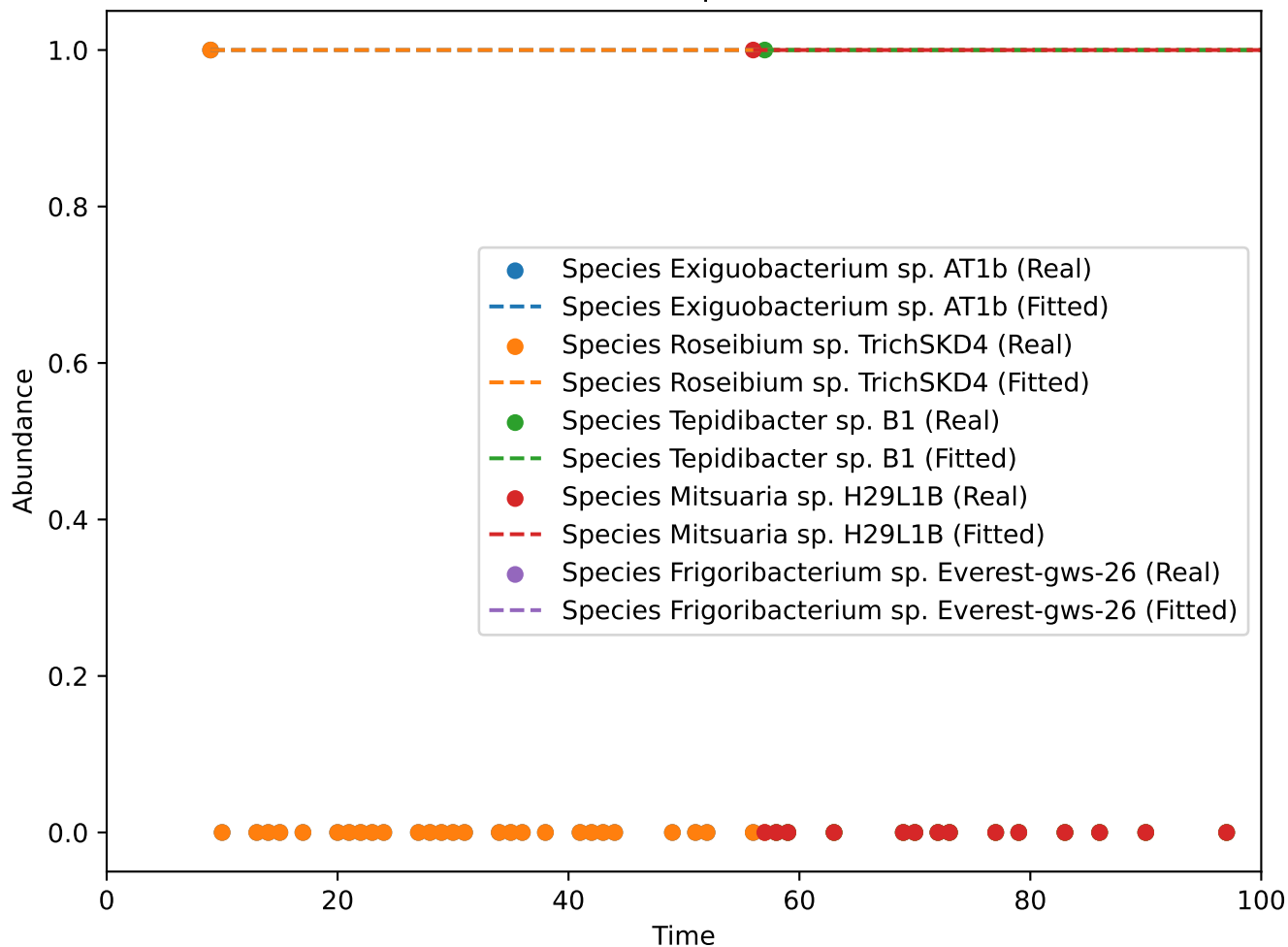
Mouse 3 - Species Fit



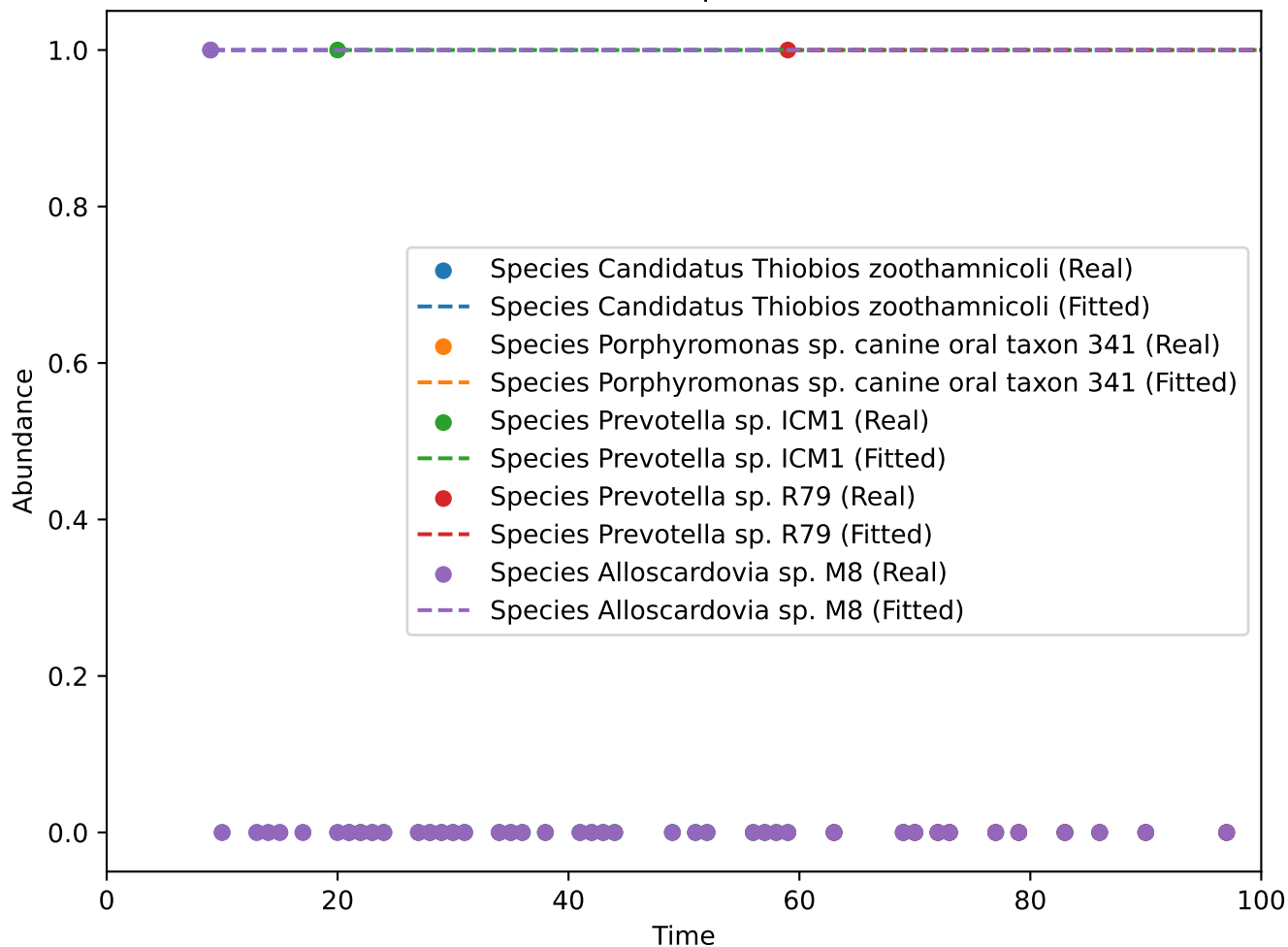
Mouse 3 - Species Fit



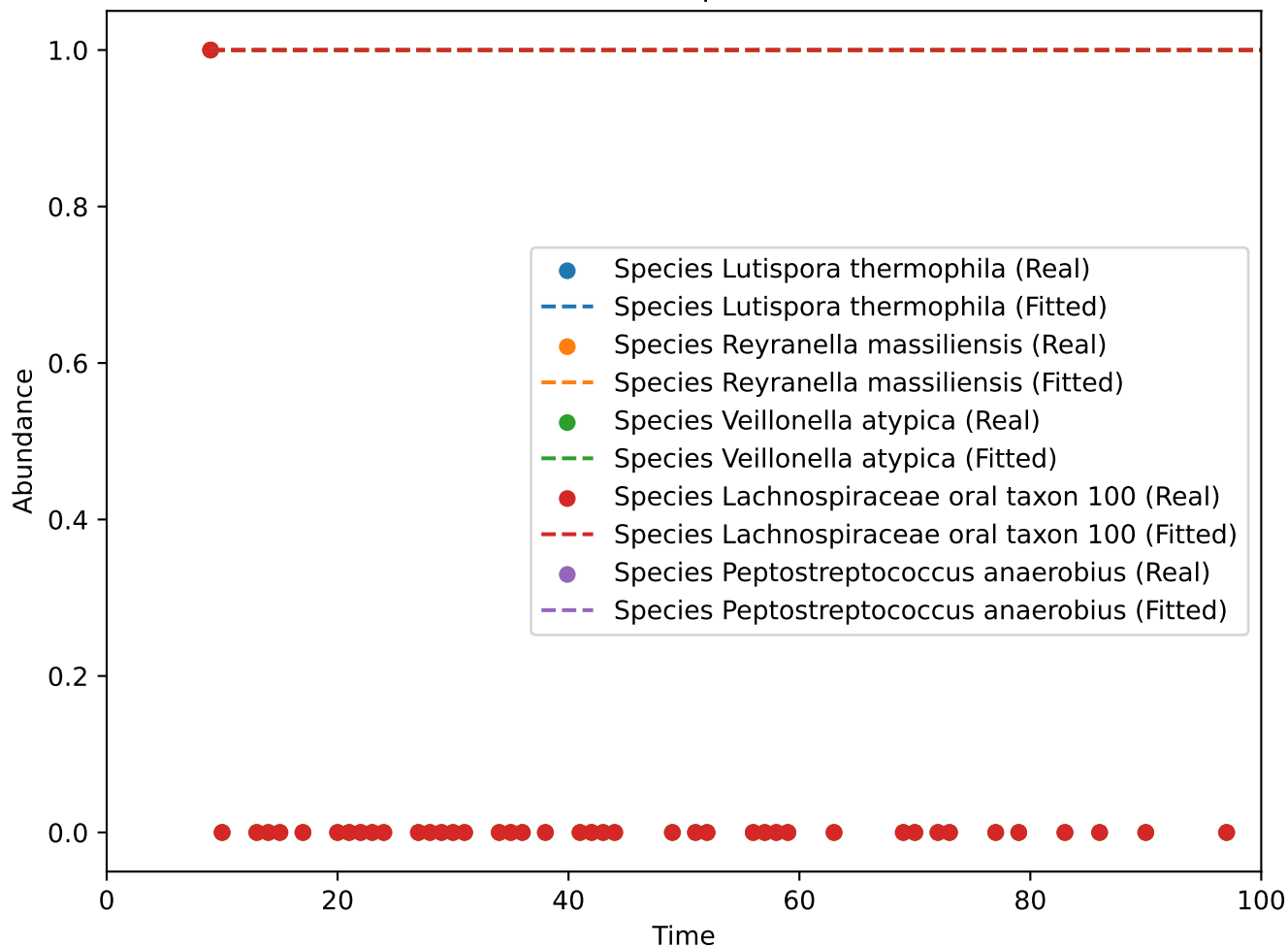
Mouse 3 - Species Fit



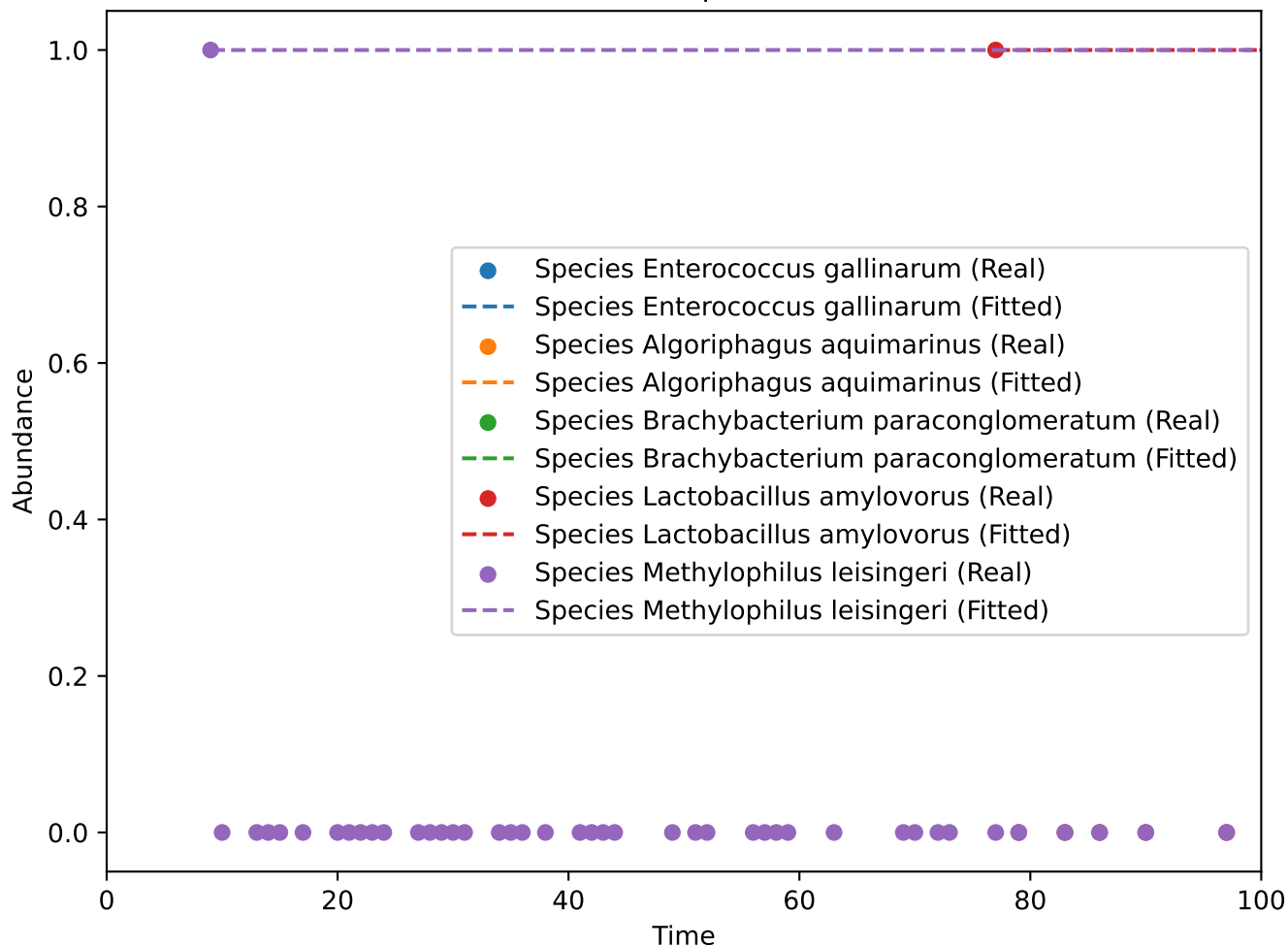
### Mouse 3 - Species Fit



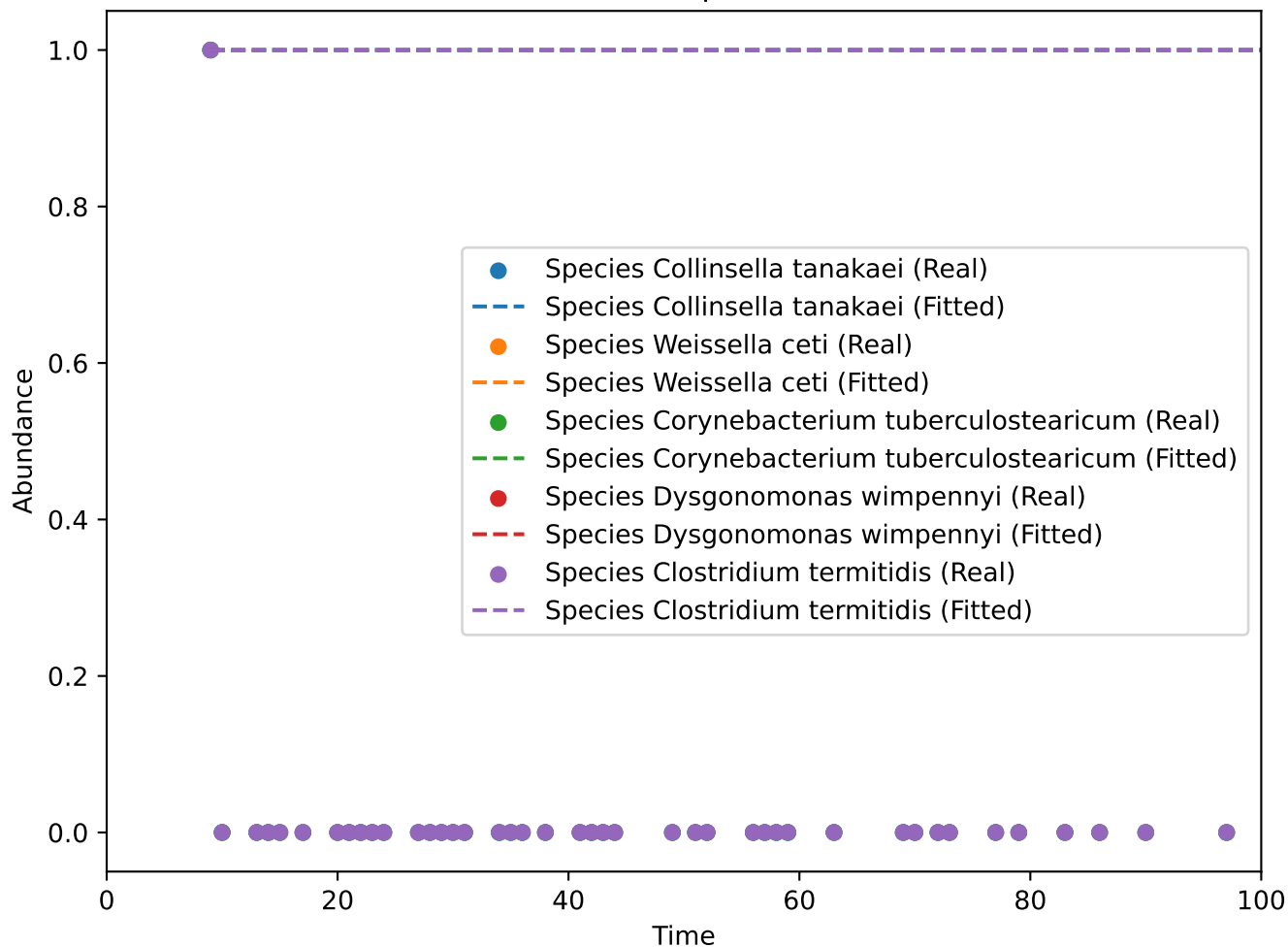
Mouse 3 - Species Fit



Mouse 3 - Species Fit

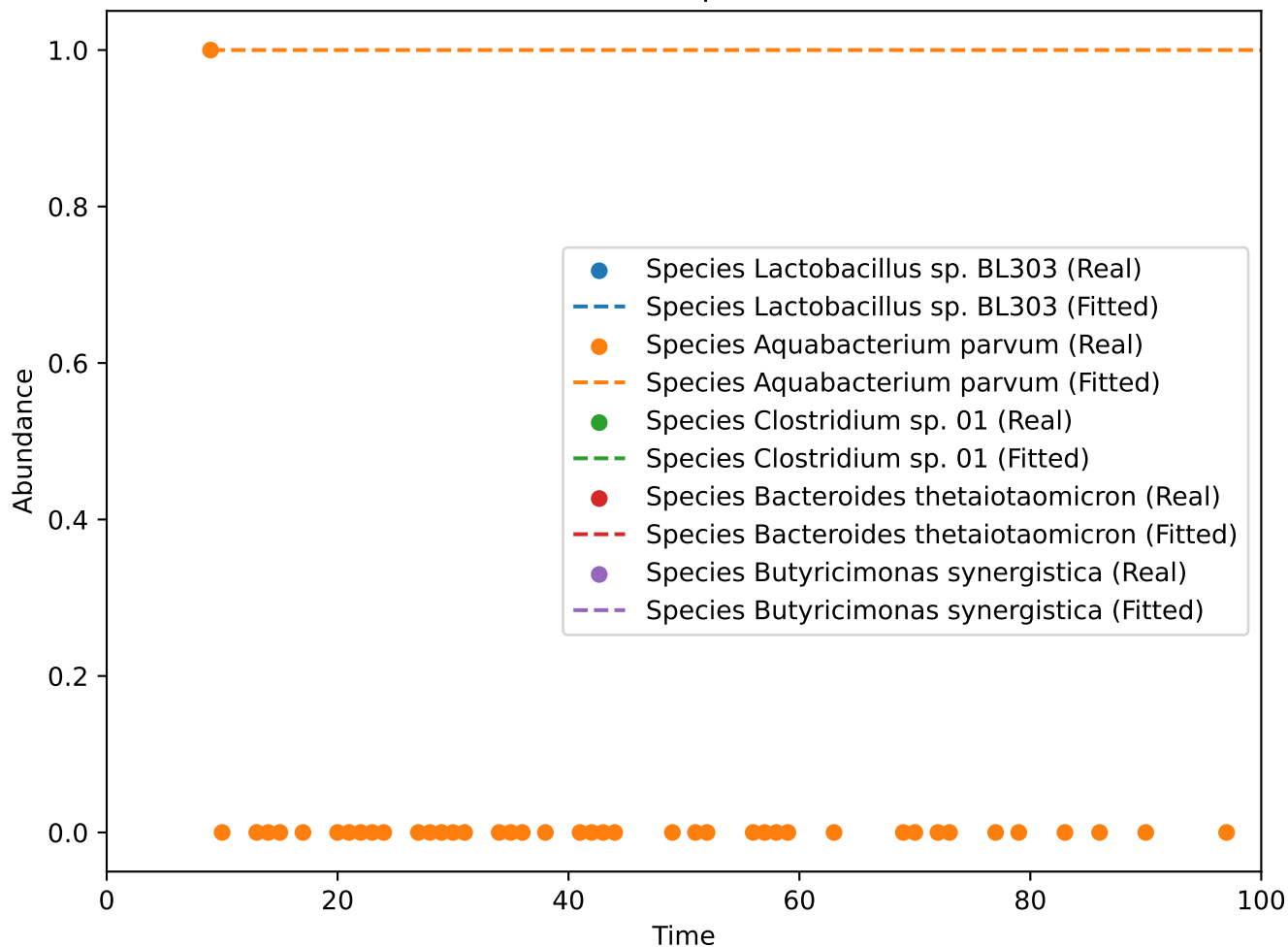


Mouse 3 - Species Fit

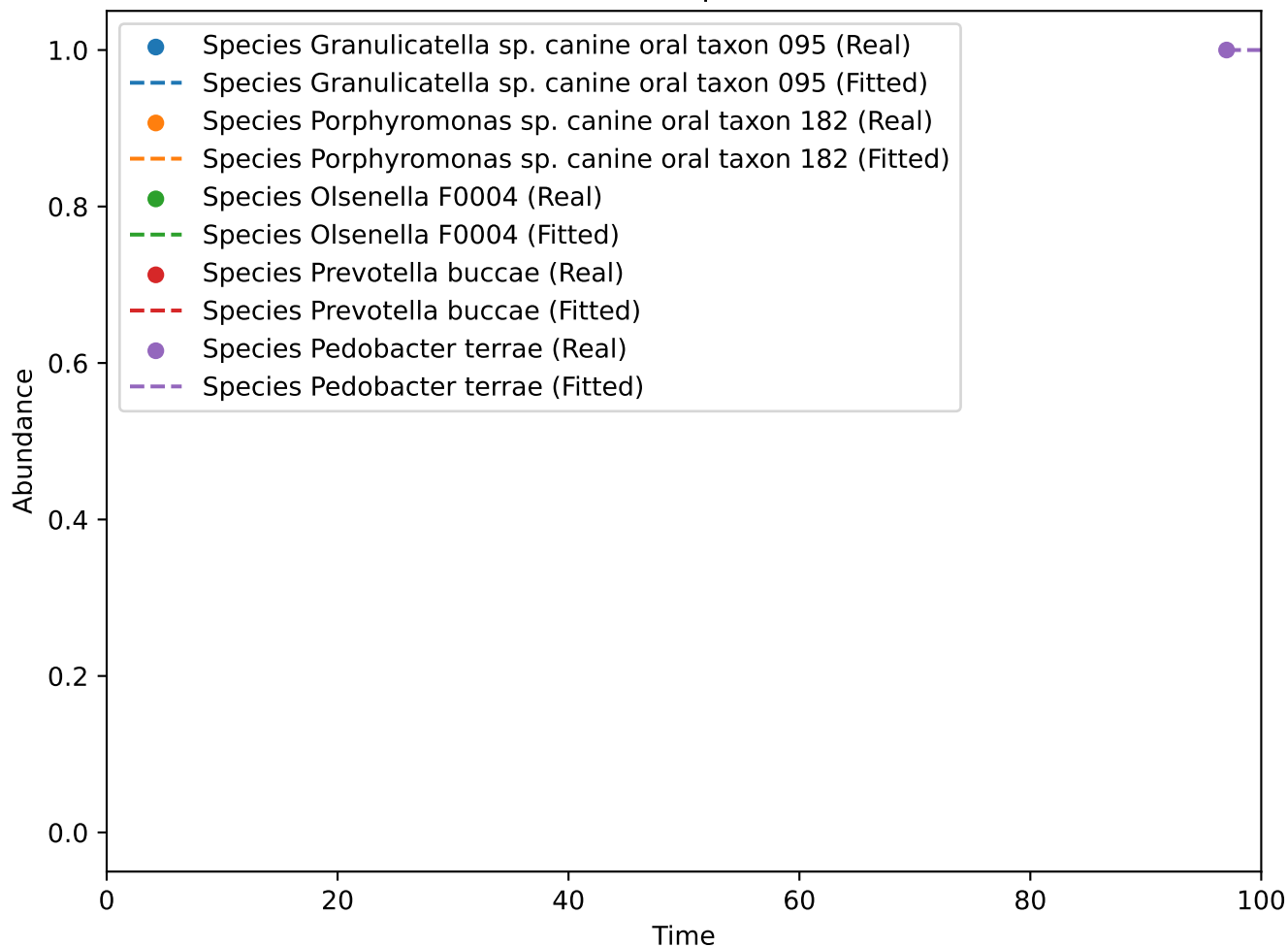




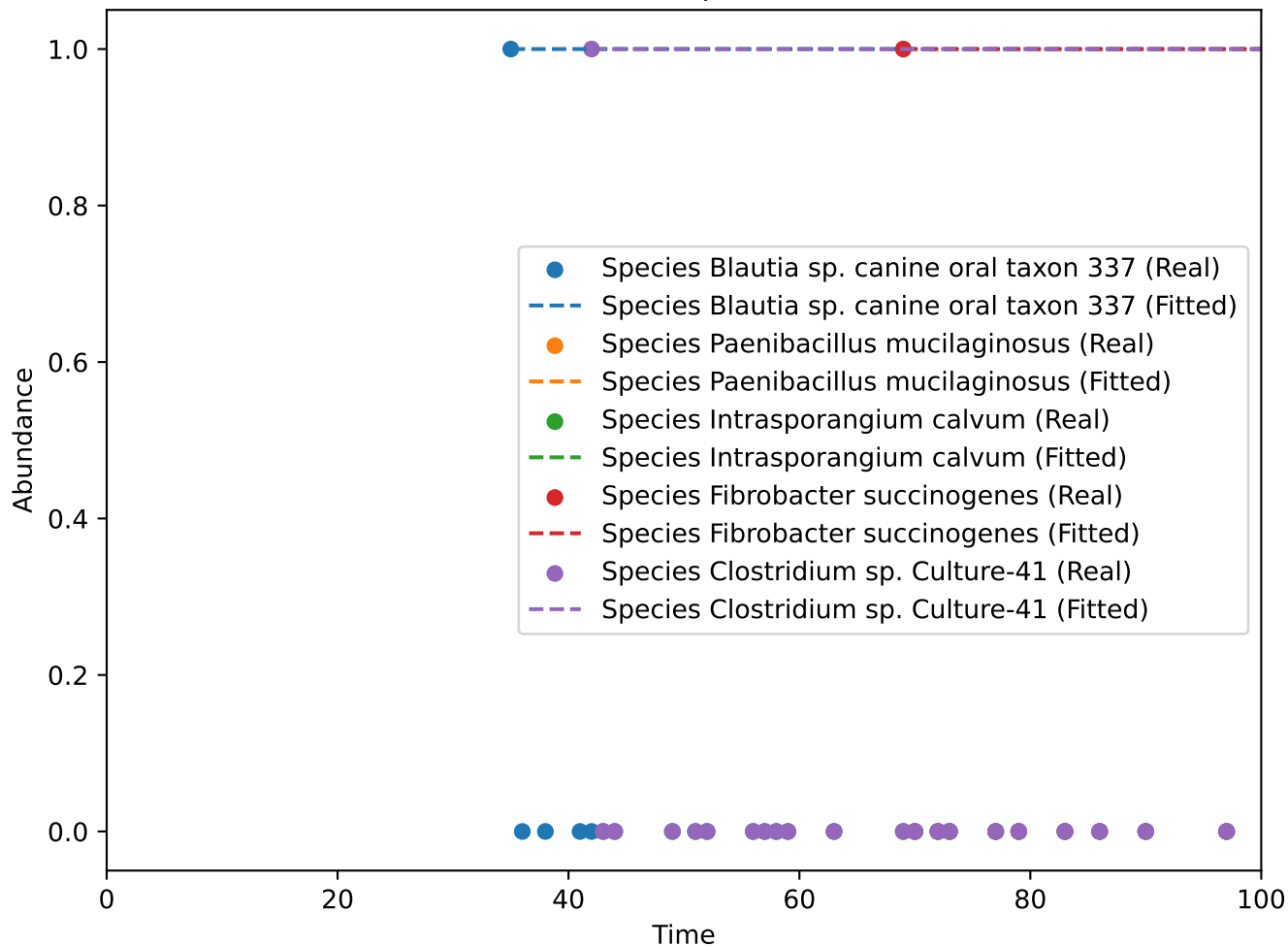
Mouse 3 - Species Fit



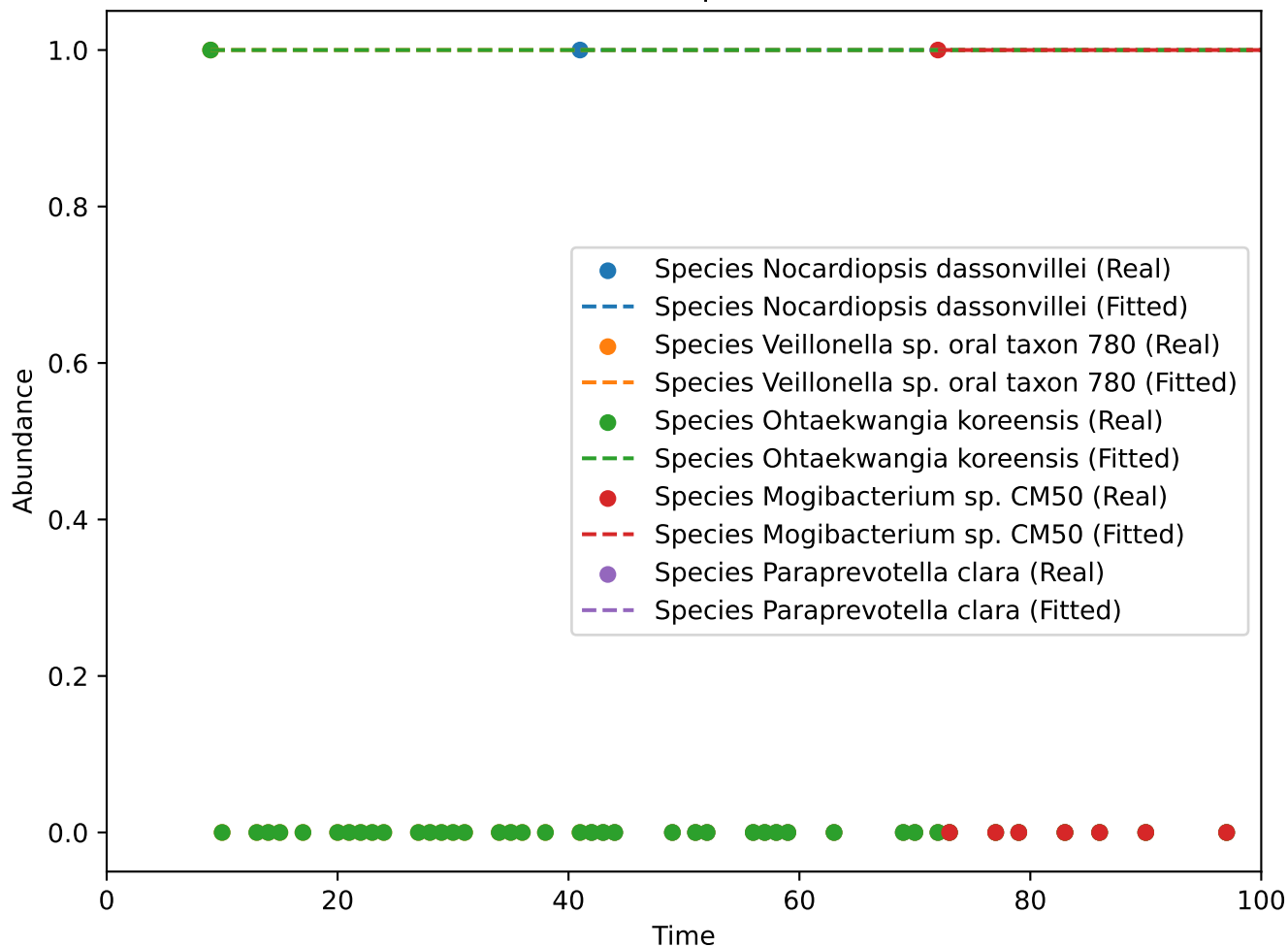
### Mouse 3 - Species Fit

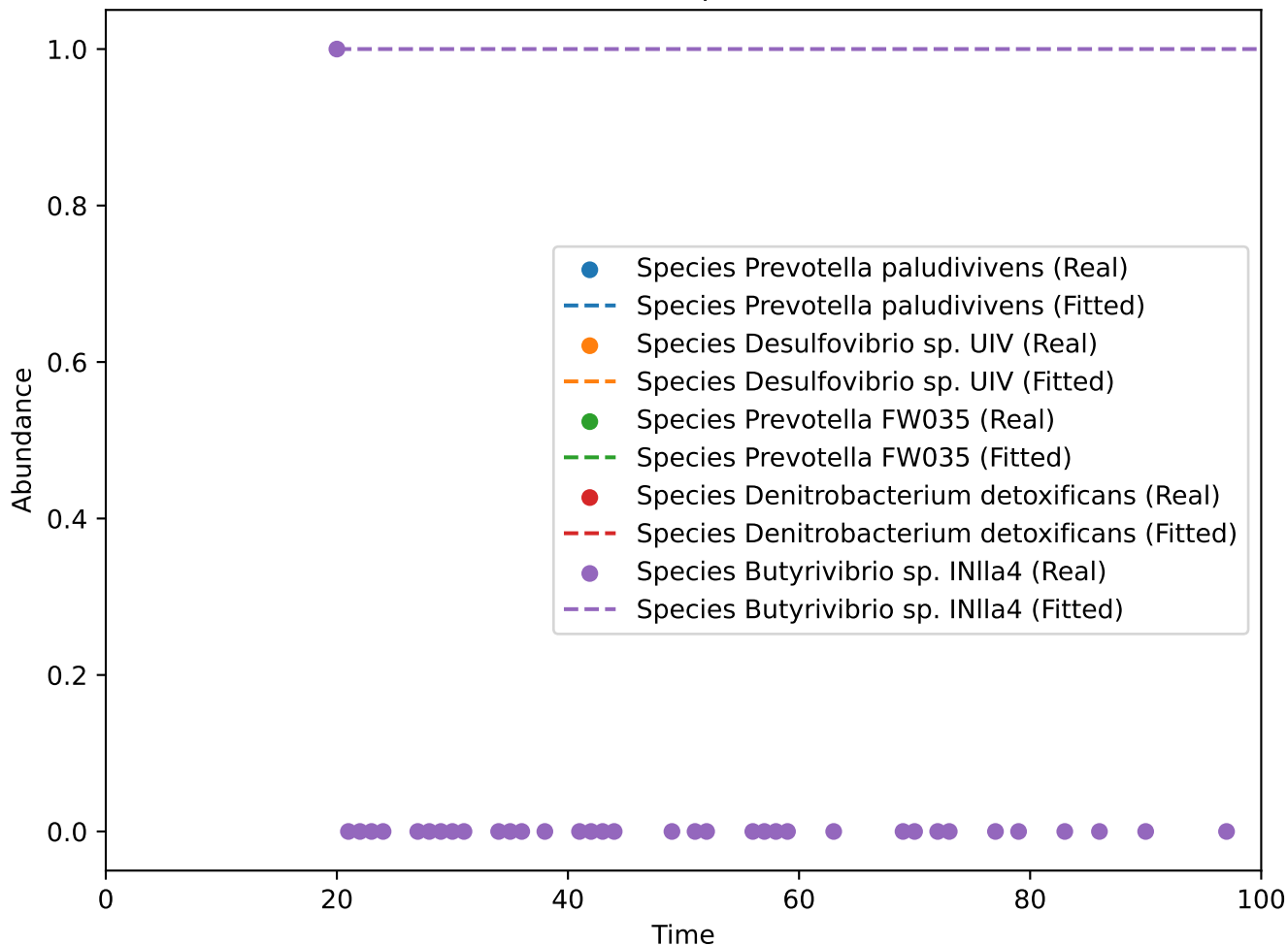


Mouse 3 - Species Fit

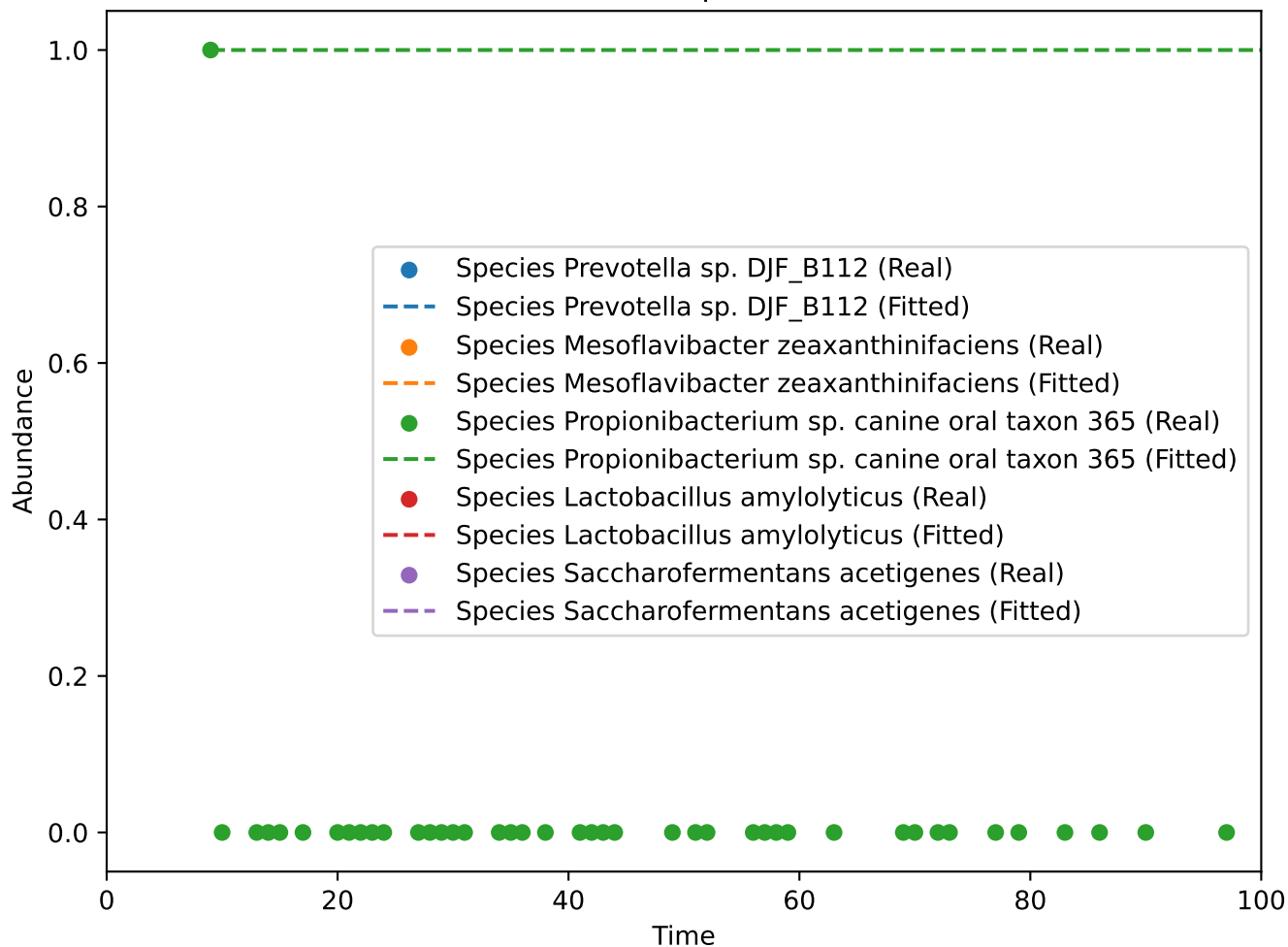


Mouse 3 - Species Fit

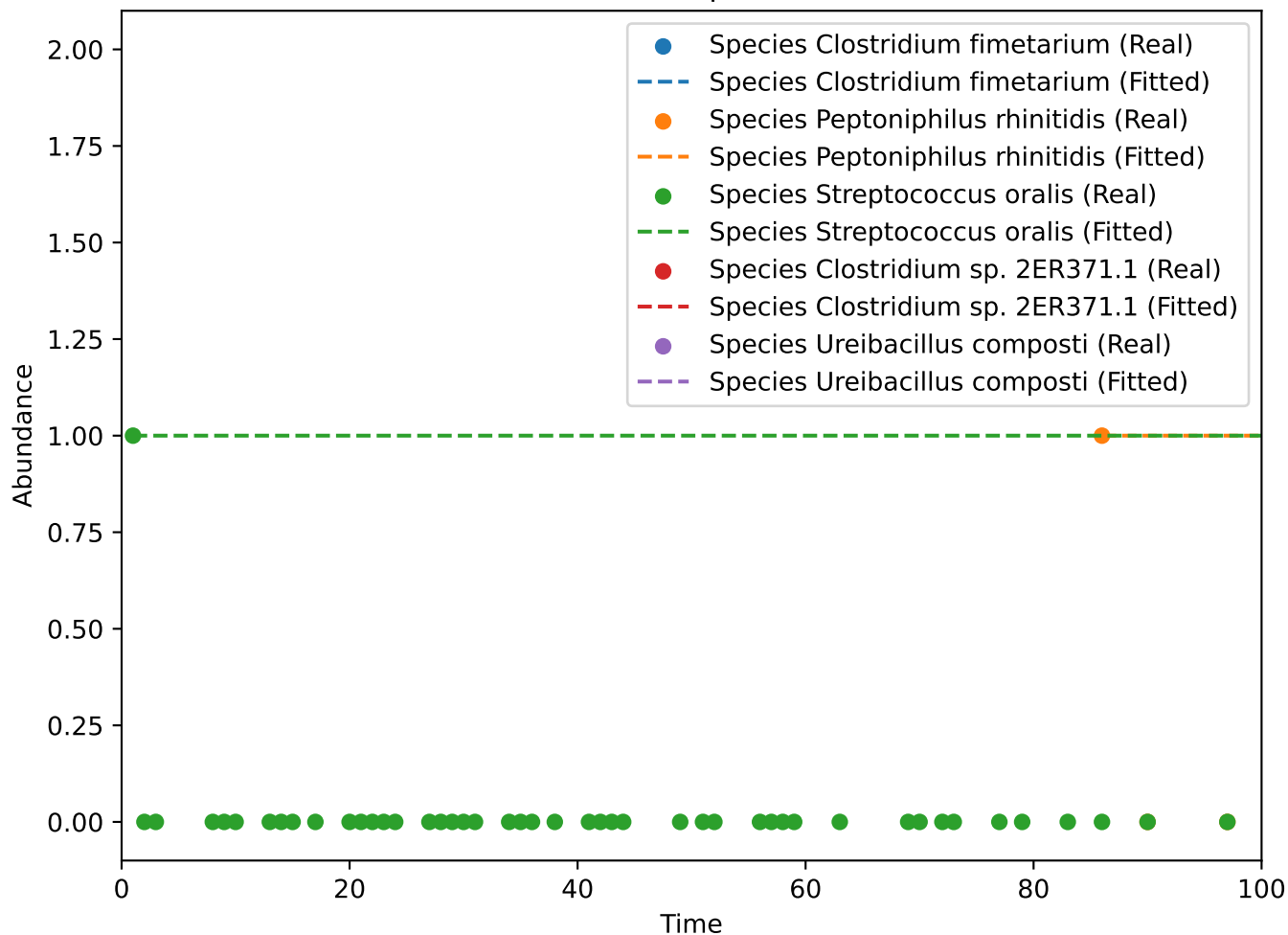




Mouse 3 - Species Fit



Mouse 3 - Species Fit



Species Cohnella xylanilytica (Real)

Species Cohnella xylanilytica (Fitted)

Species Clostridium lavalense (Real)

Species Clostridium lavalense (Fitted)

Species Amphibacillus sp. J1 (Real)

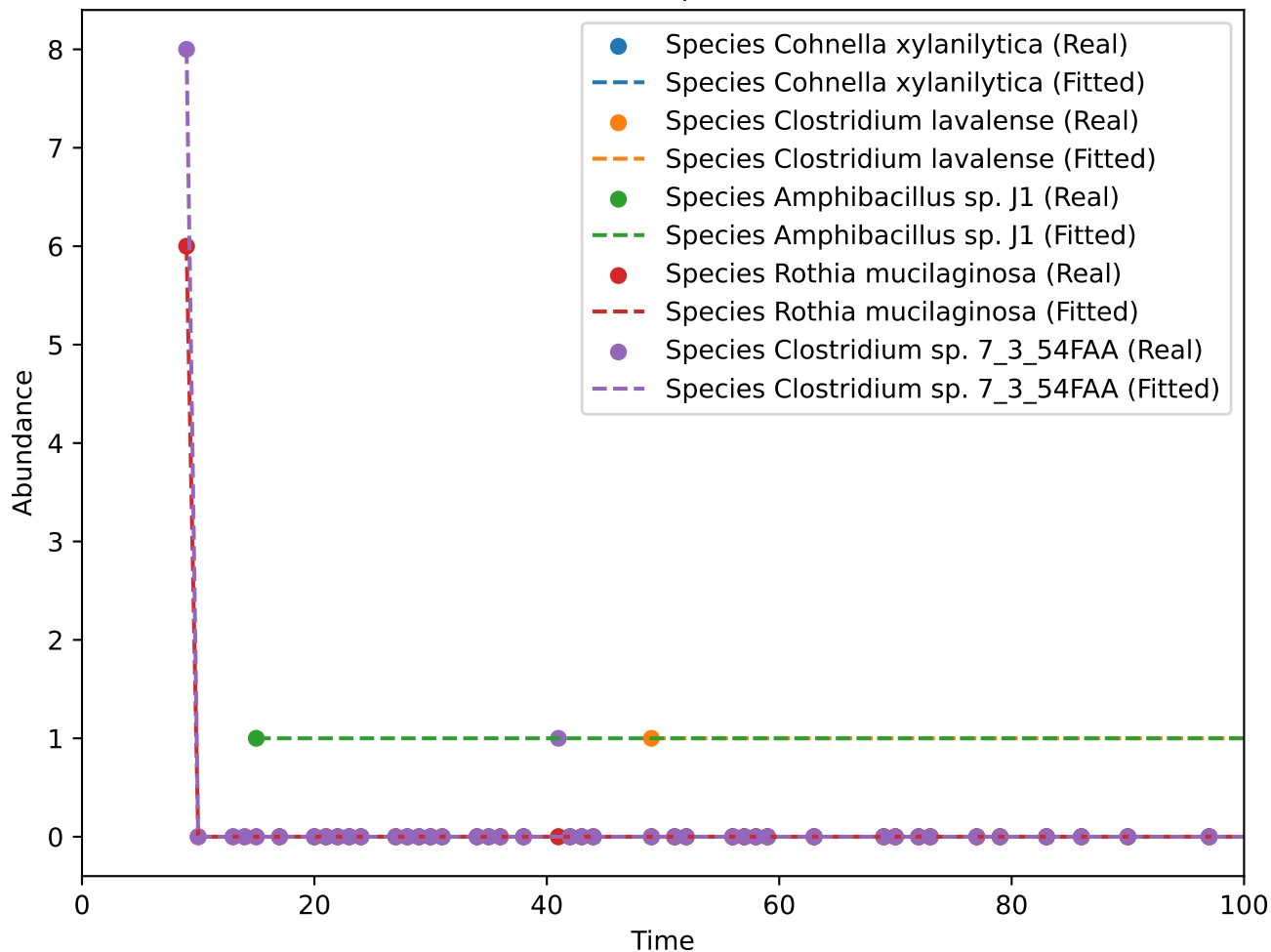
Species Amphibacillus sp. J1 (Fitted)

Species Rothia mucilaginosa (Real)

Species Rothia mucilaginosa (Fitted)

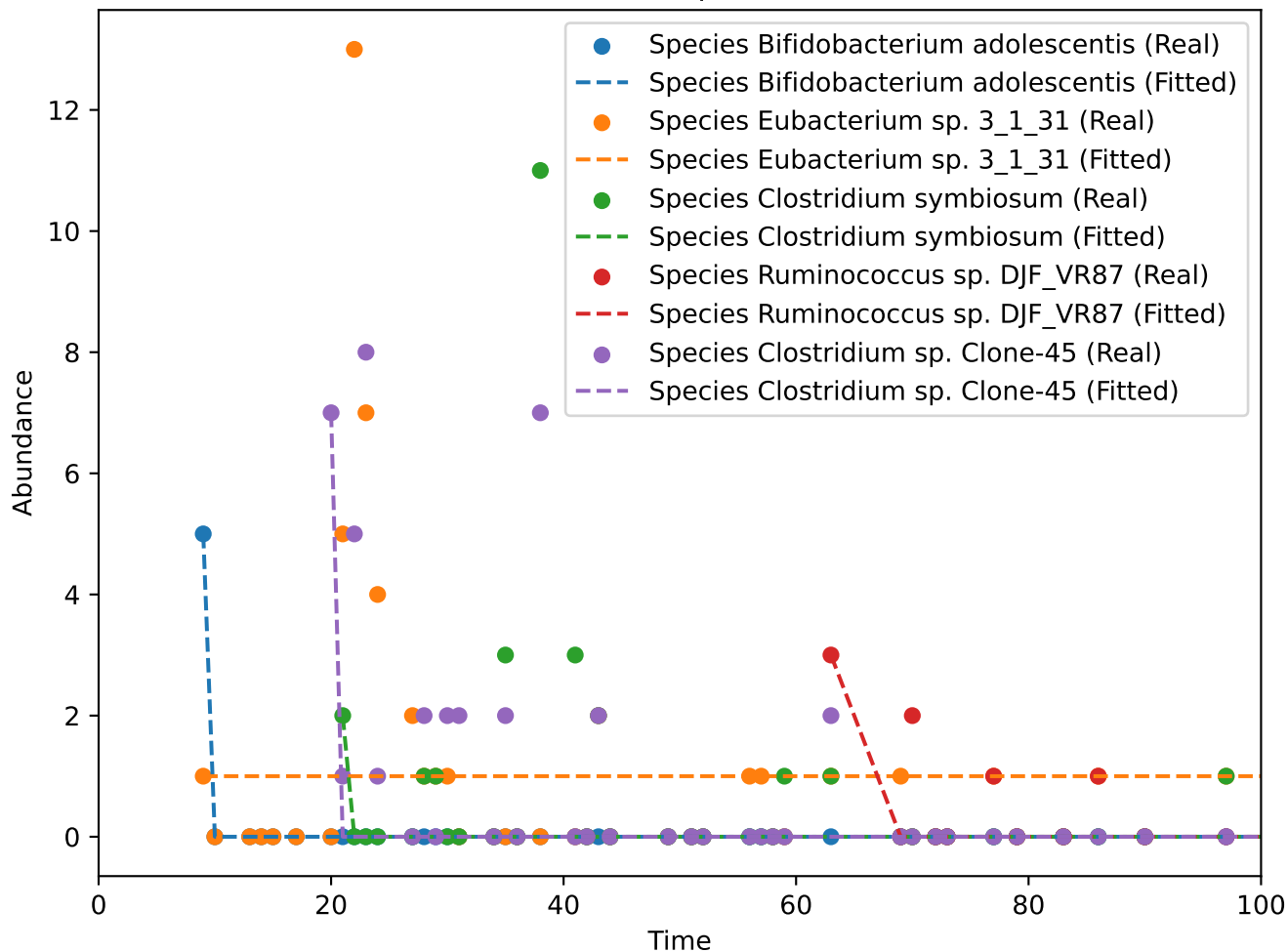
Species Clostridium sp. 7\_3\_54FAA (Real)

Species Clostridium sp. 7\_3\_54FAA (Fitted)

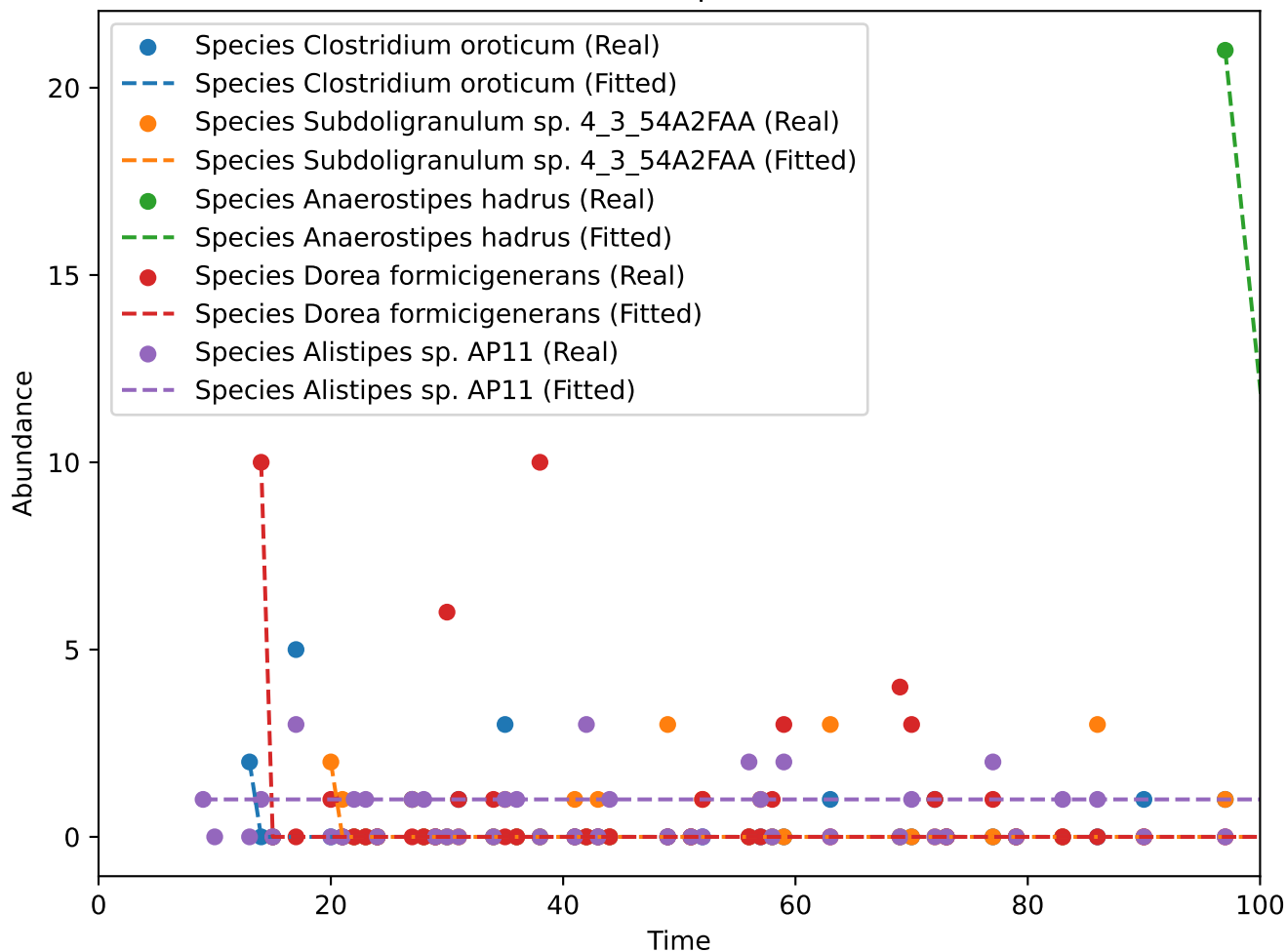




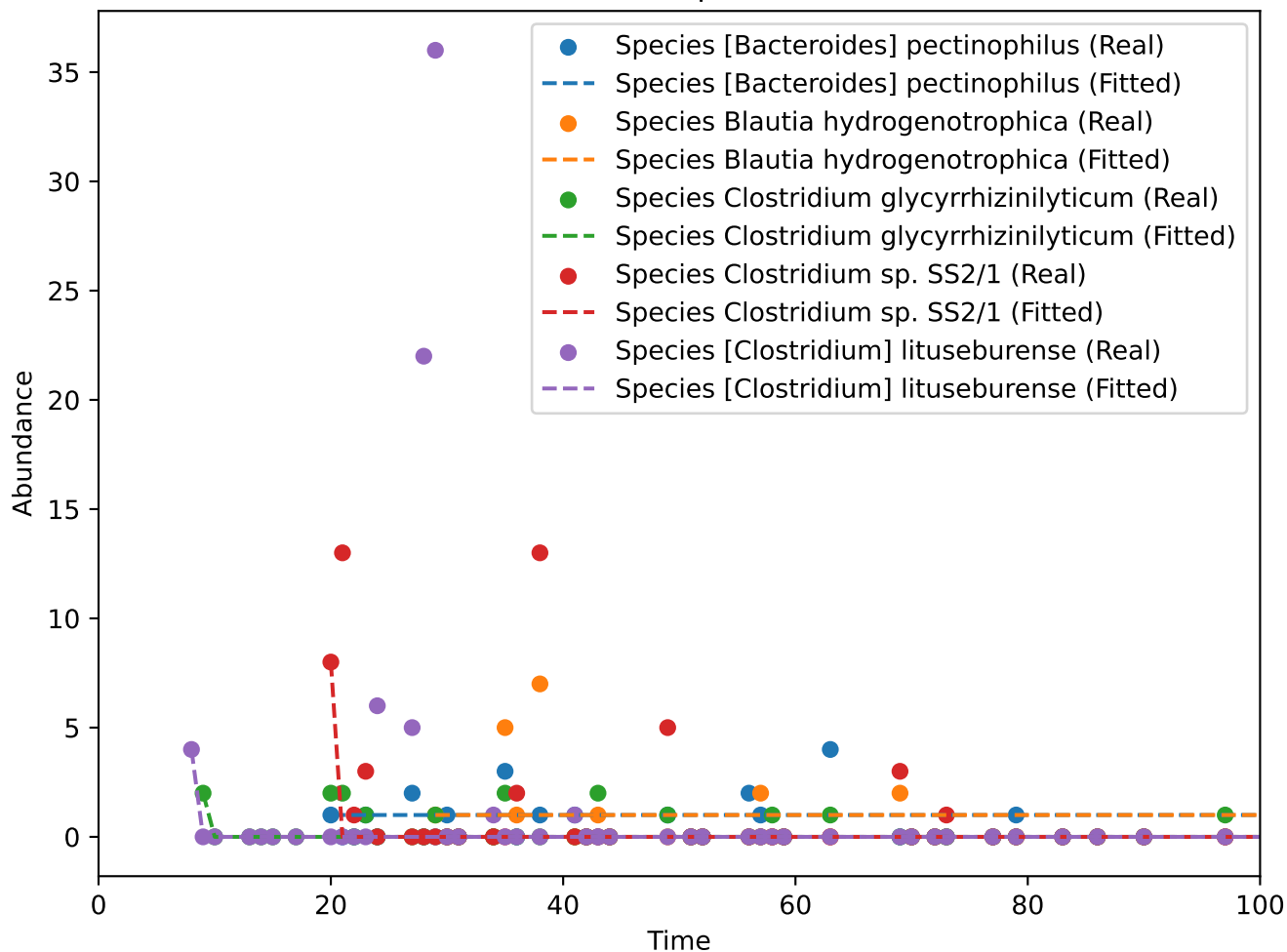
Mouse 3 - Species Fit



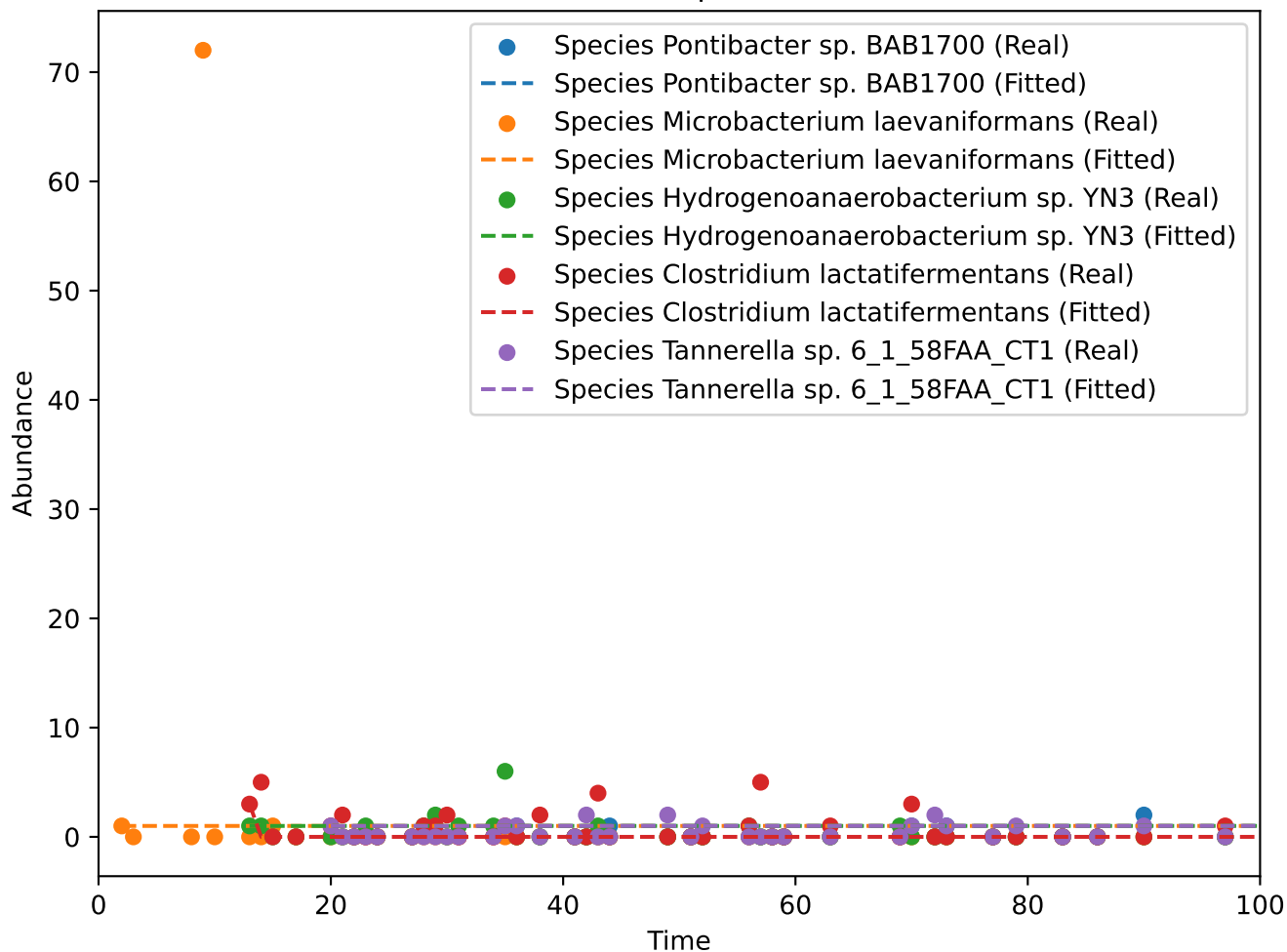
Mouse 3 - Species Fit



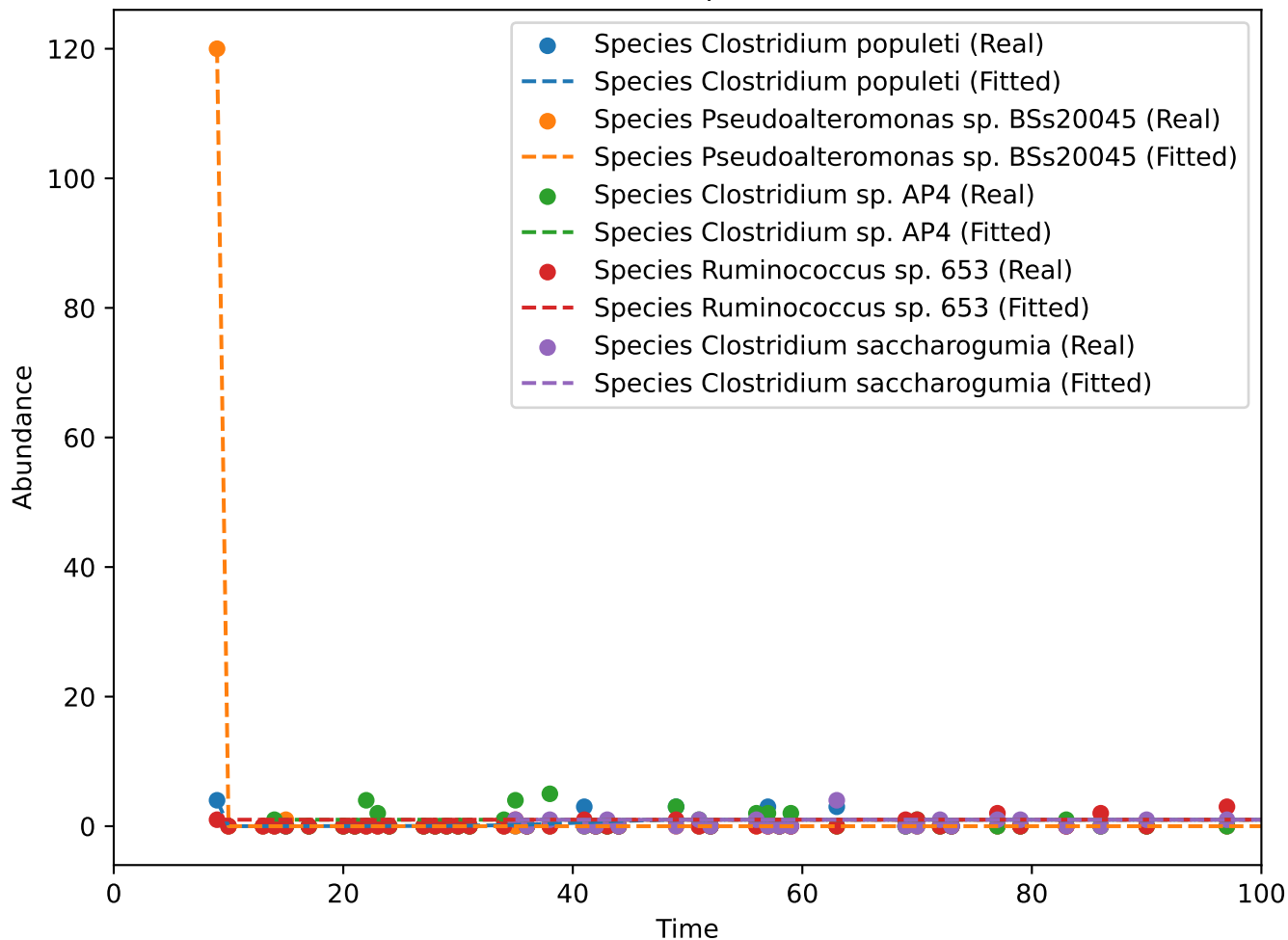
# Mouse 3 - Species Fit



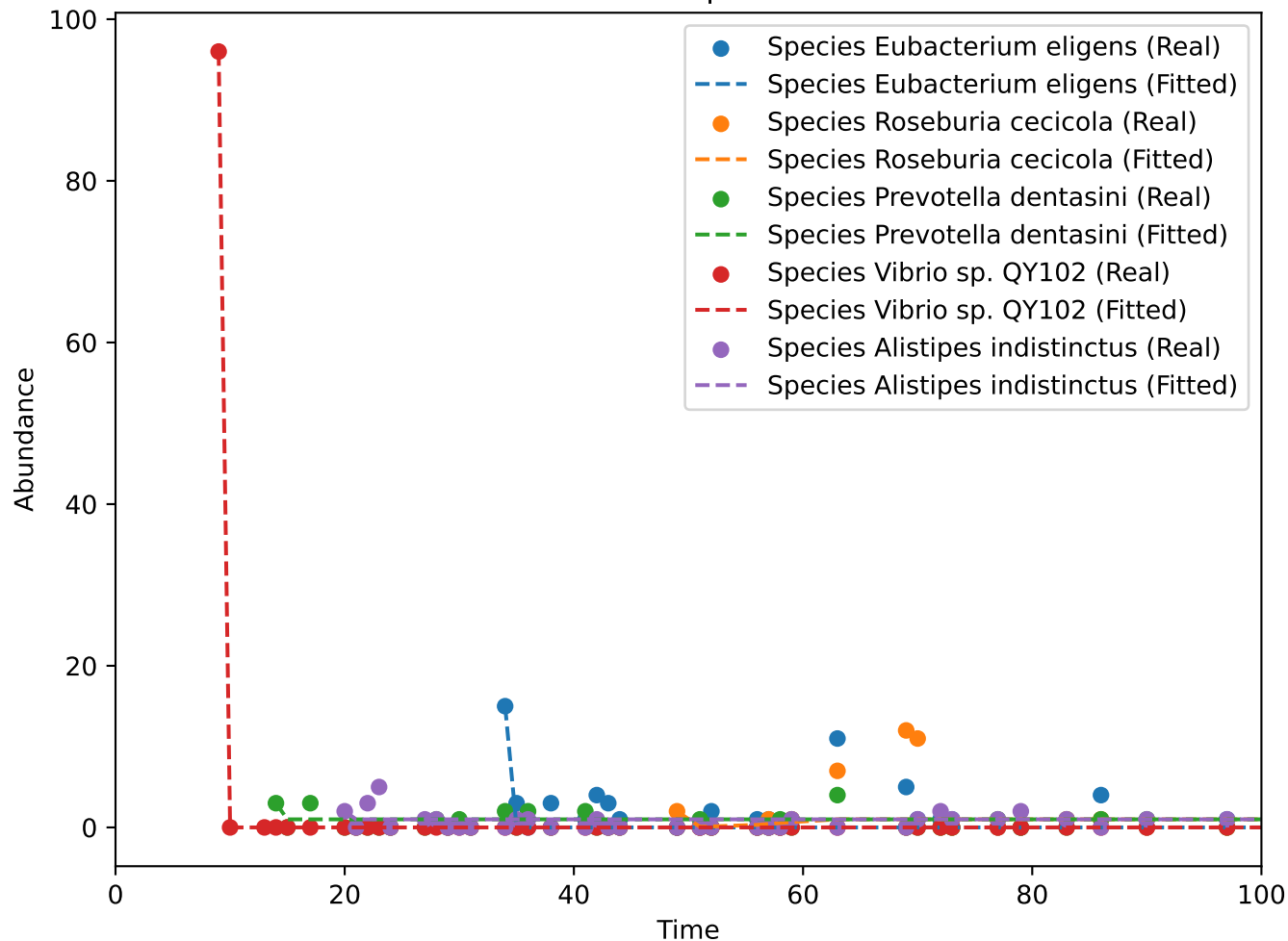
Mouse 3 - Species Fit

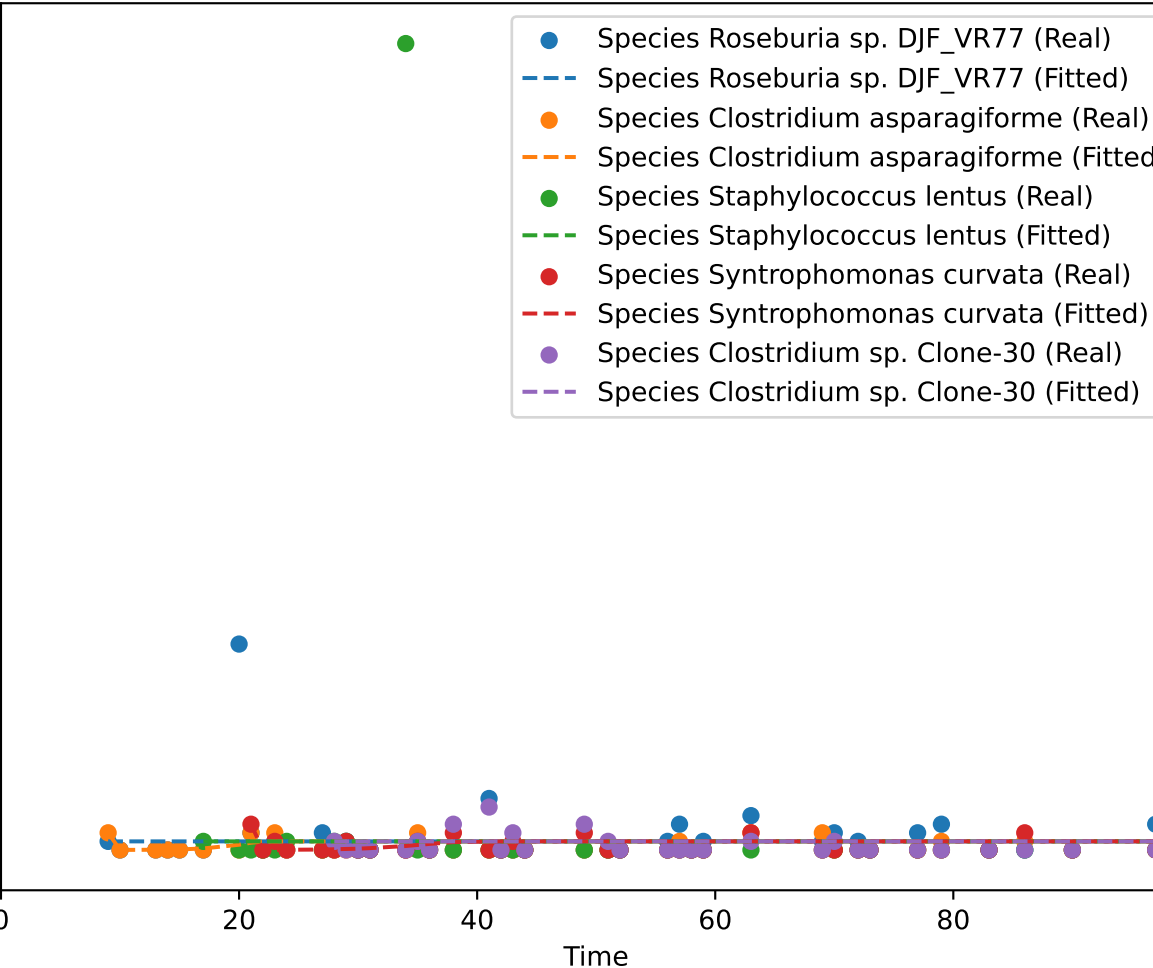


Mouse 3 - Species Fit

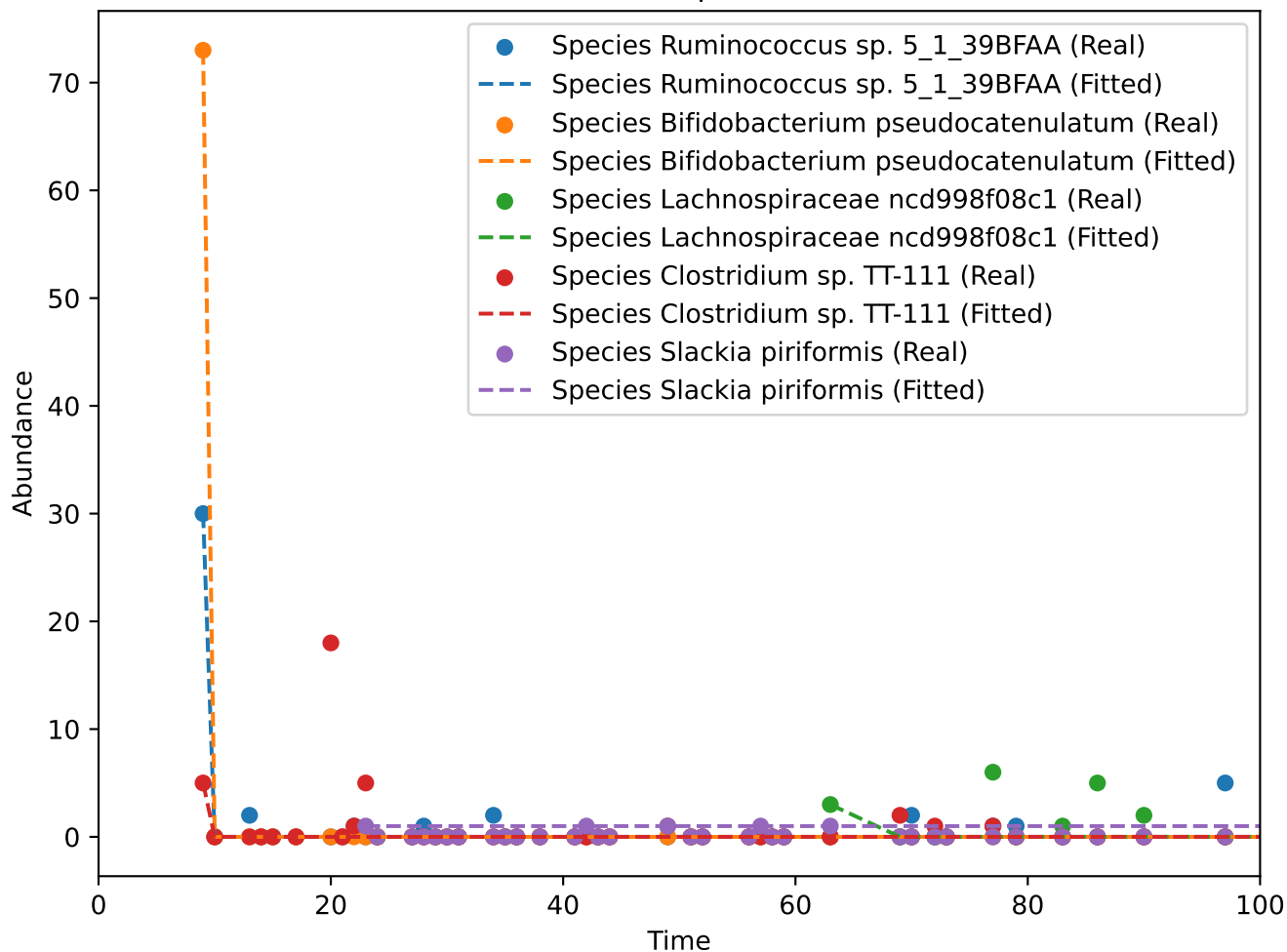


### Mouse 3 - Species Fit



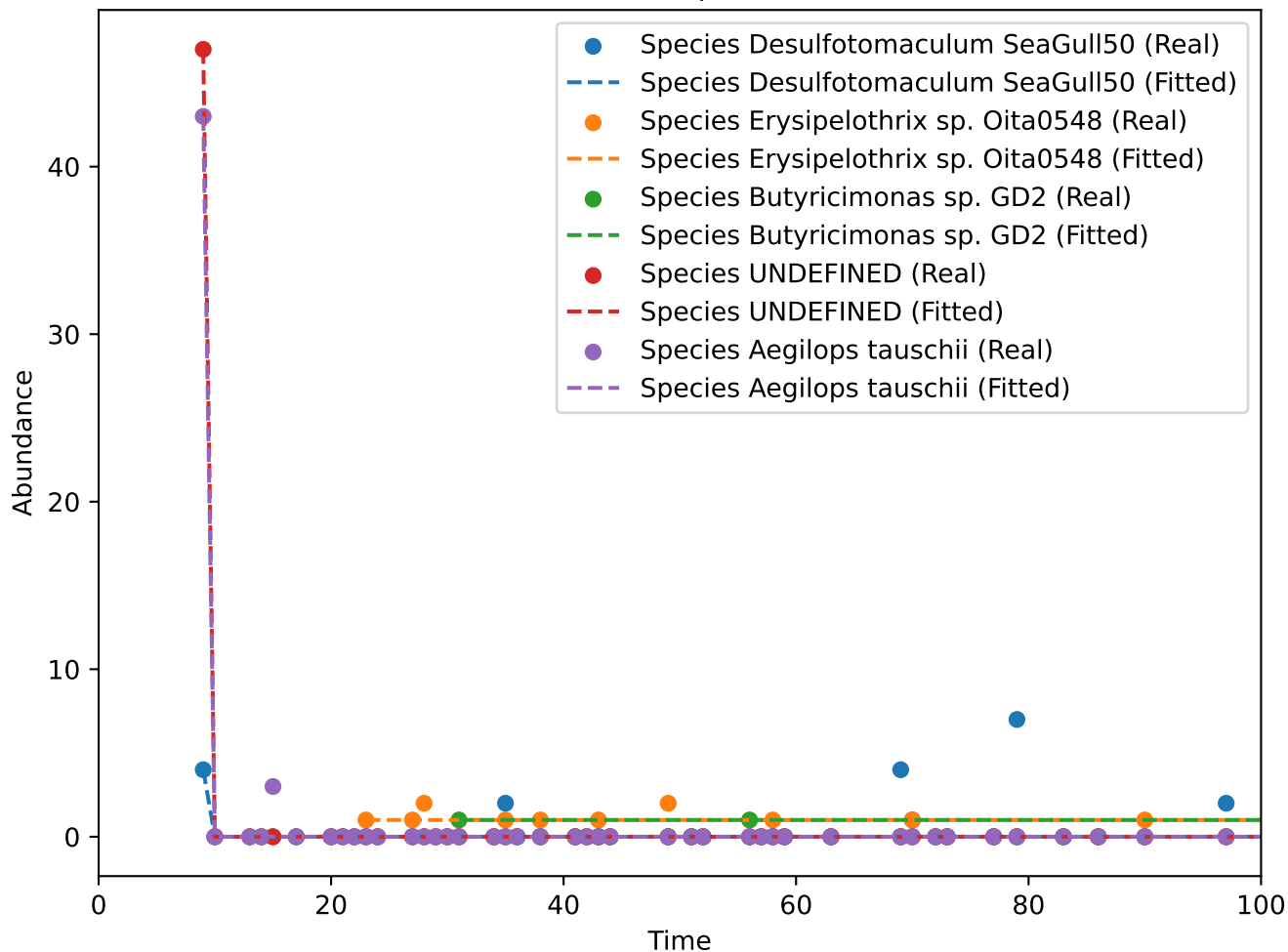
[illegible]

Mouse 3 - Species Fit

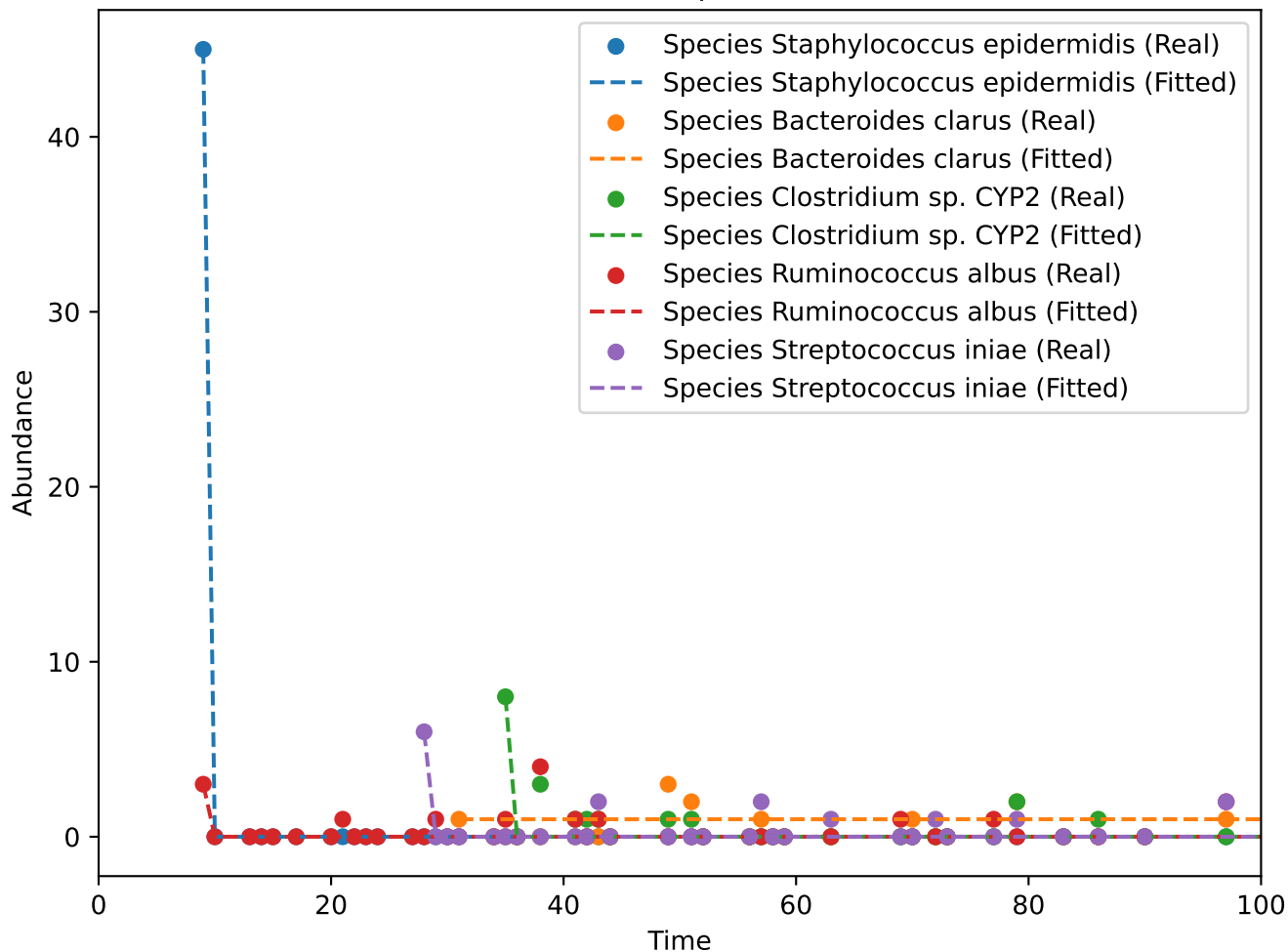




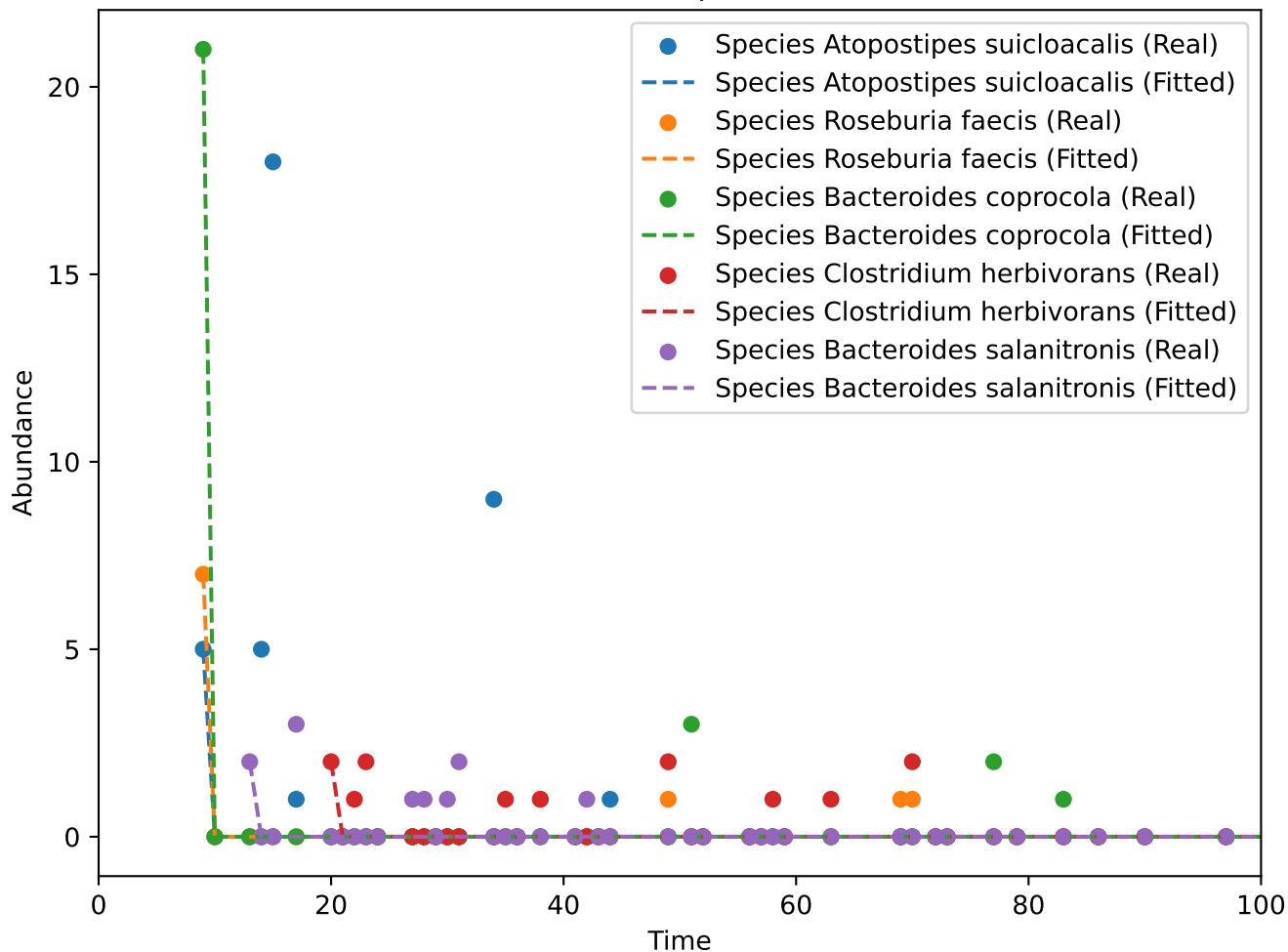
Mouse 3 - Species Fit



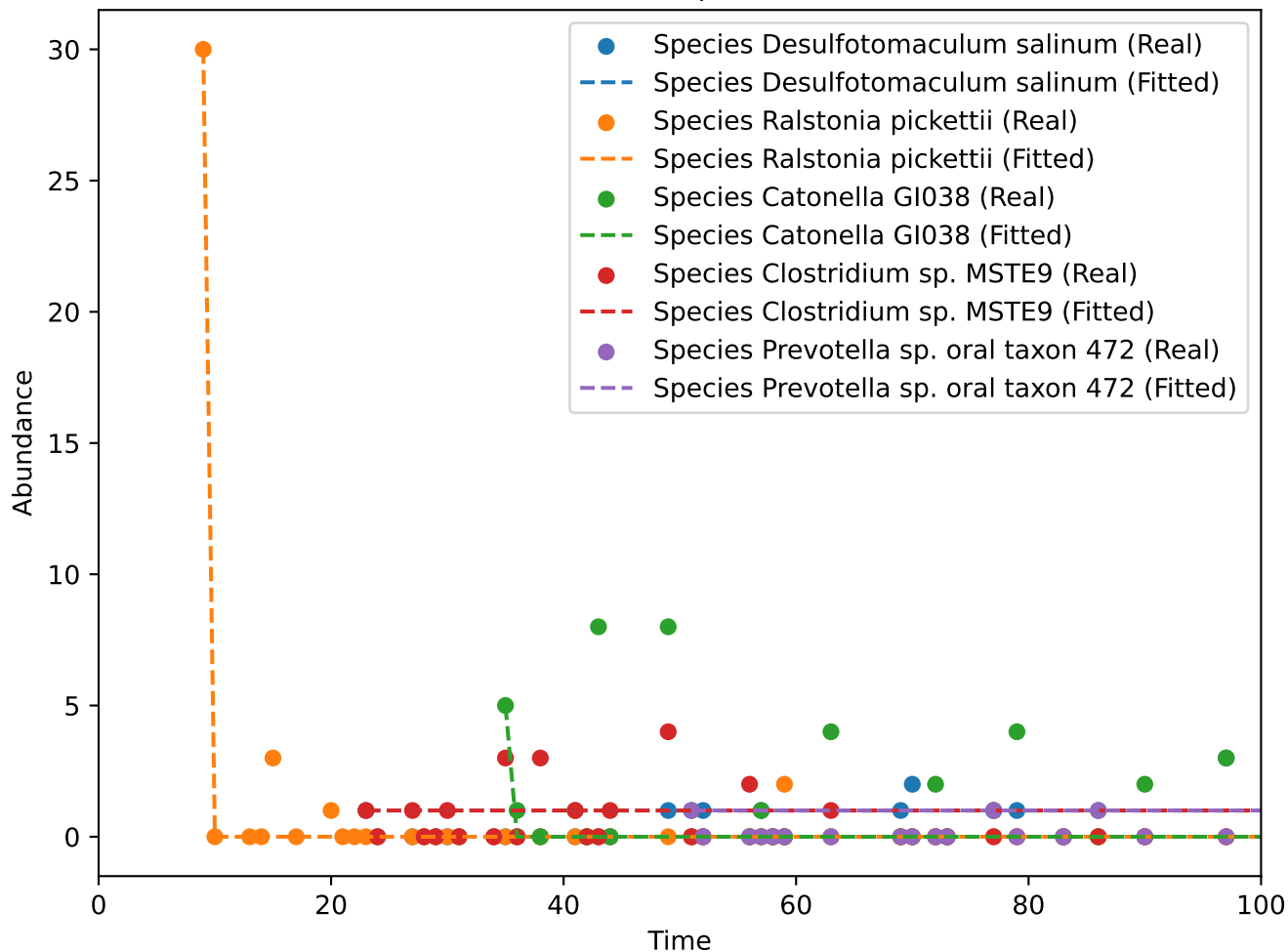
Mouse 3 - Species Fit



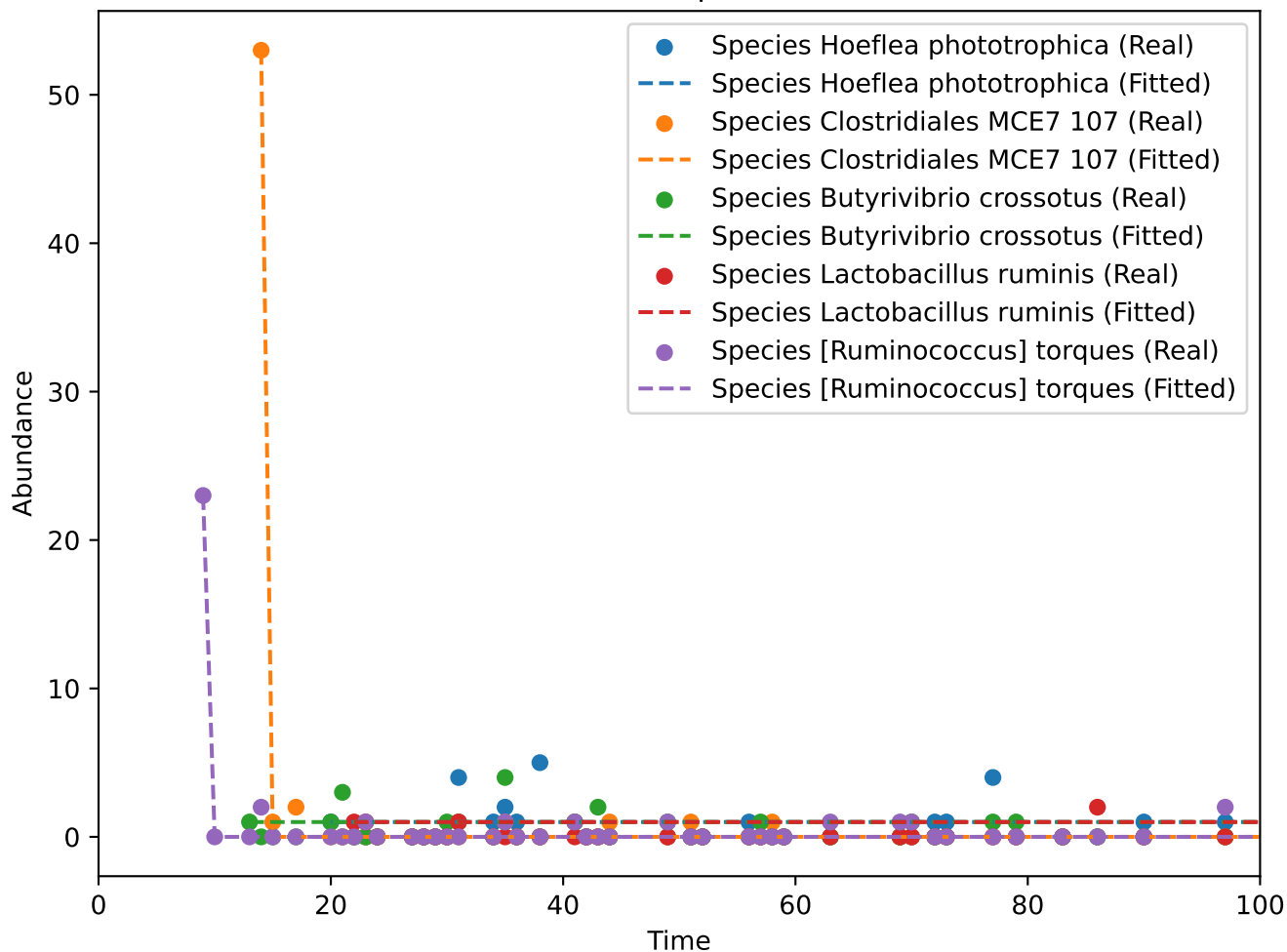
### Mouse 3 - Species Fit



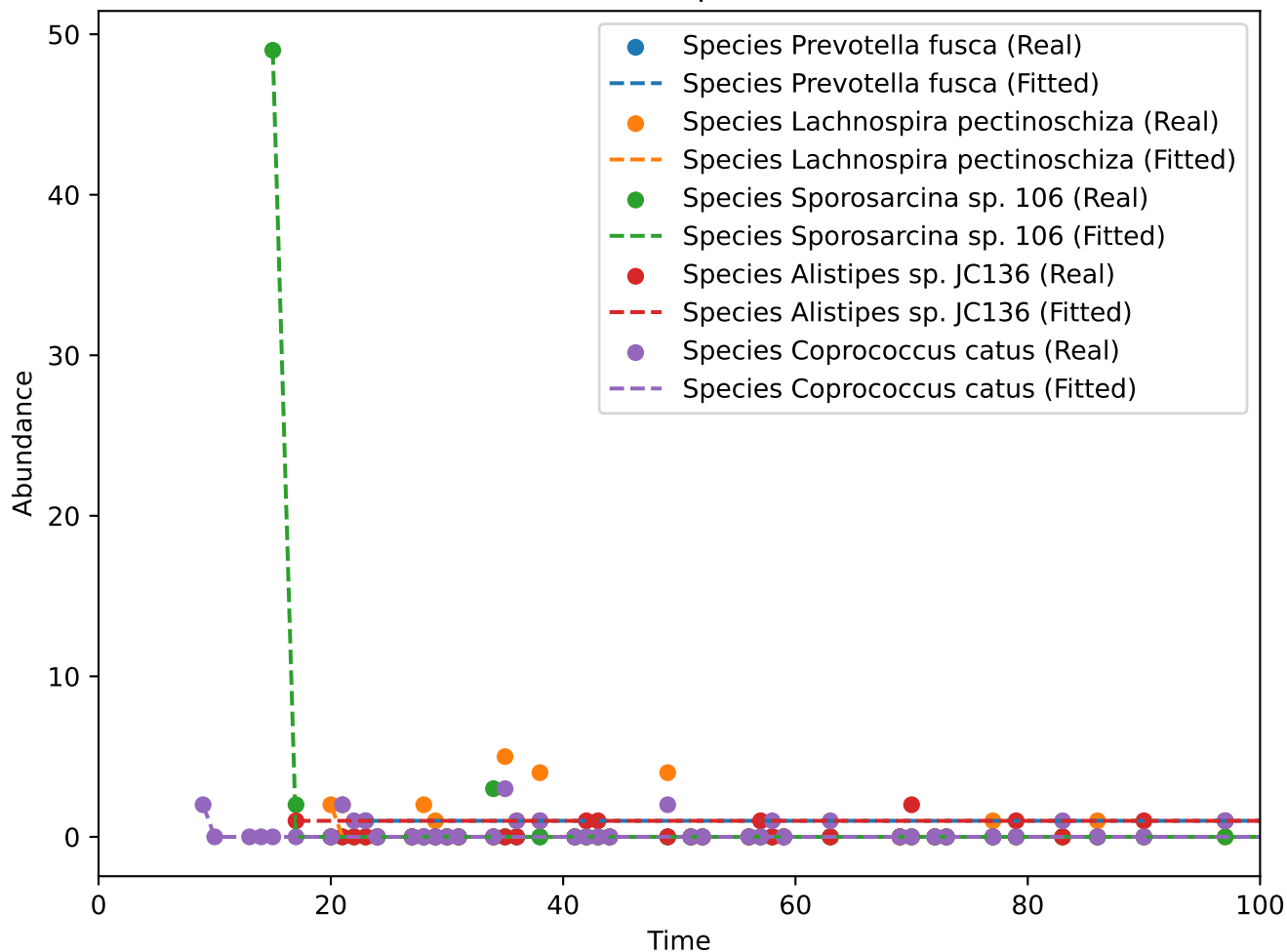
Mouse 3 - Species Fit



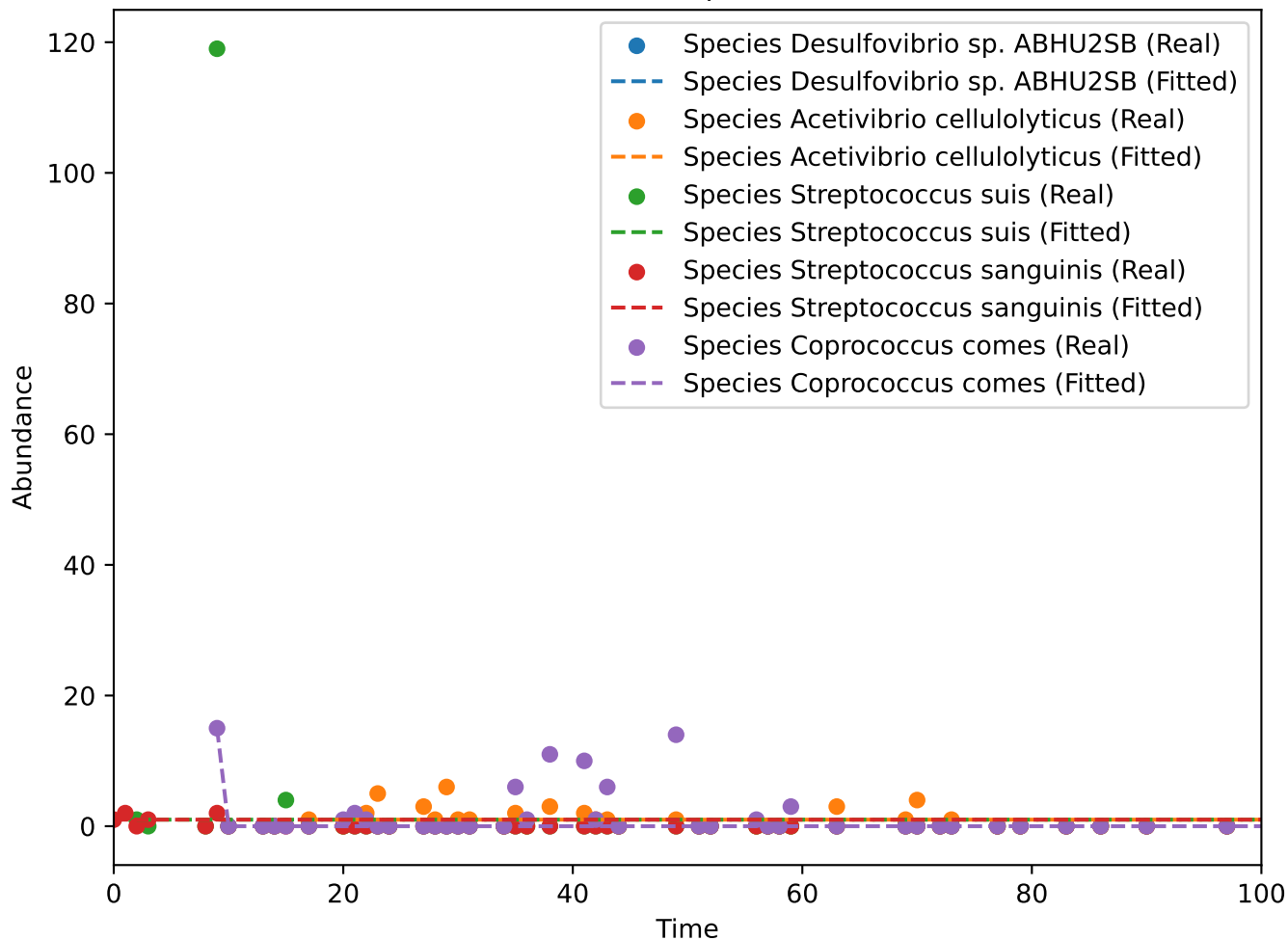
Mouse 3 - Species Fit



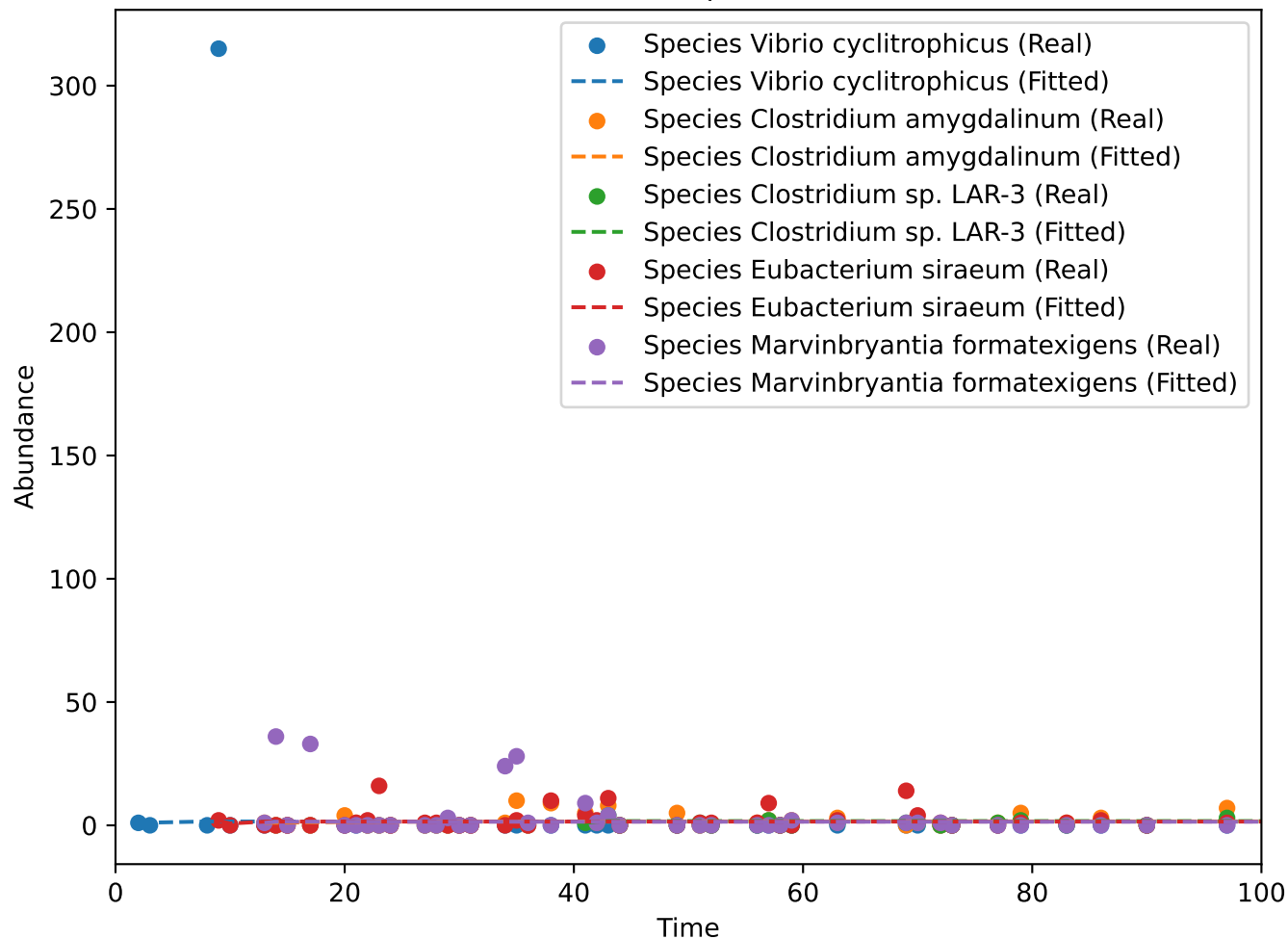
Mouse 3 - Species Fit



Mouse 3 - Species Fit

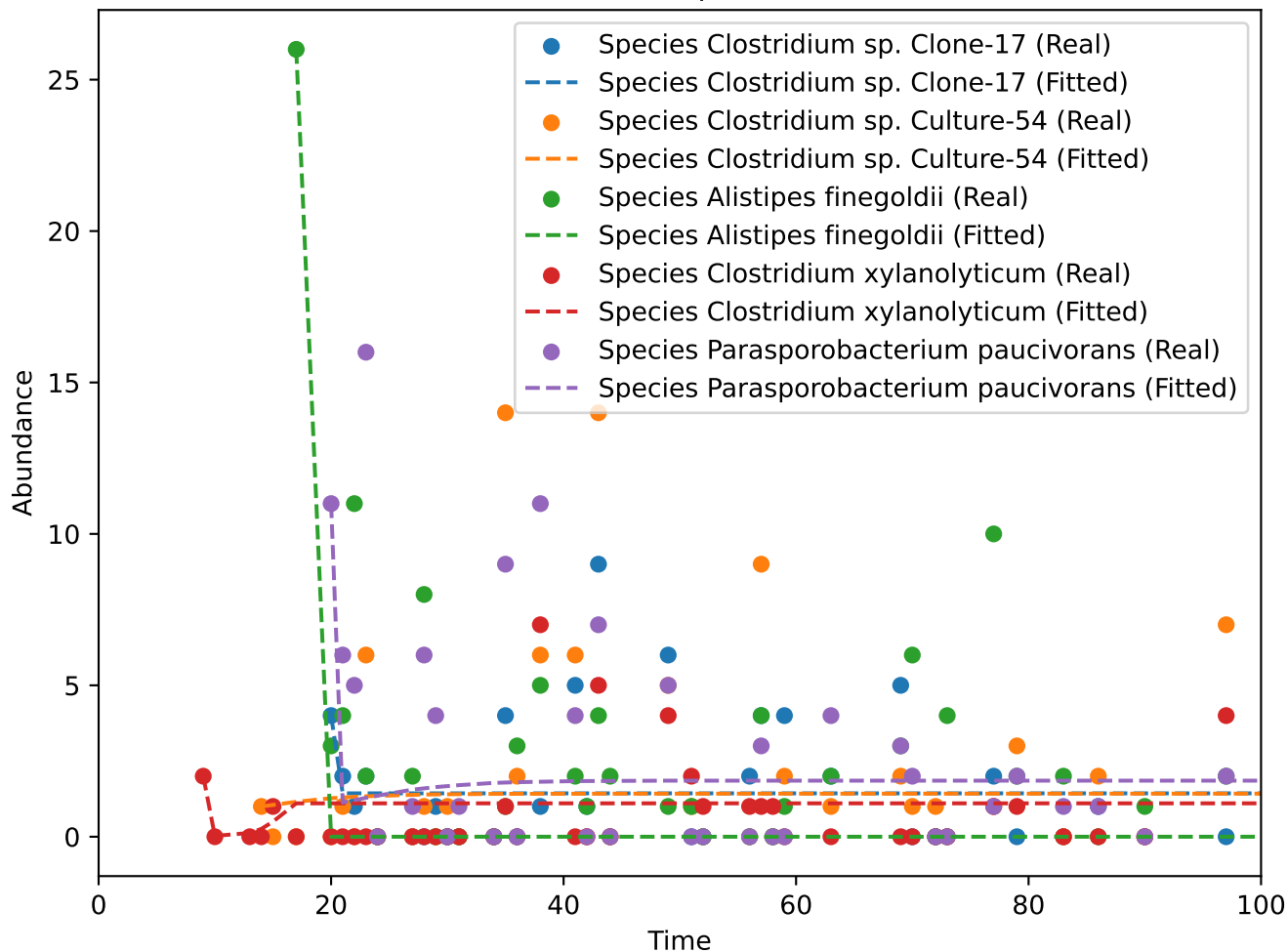


Mouse 3 - Species Fit

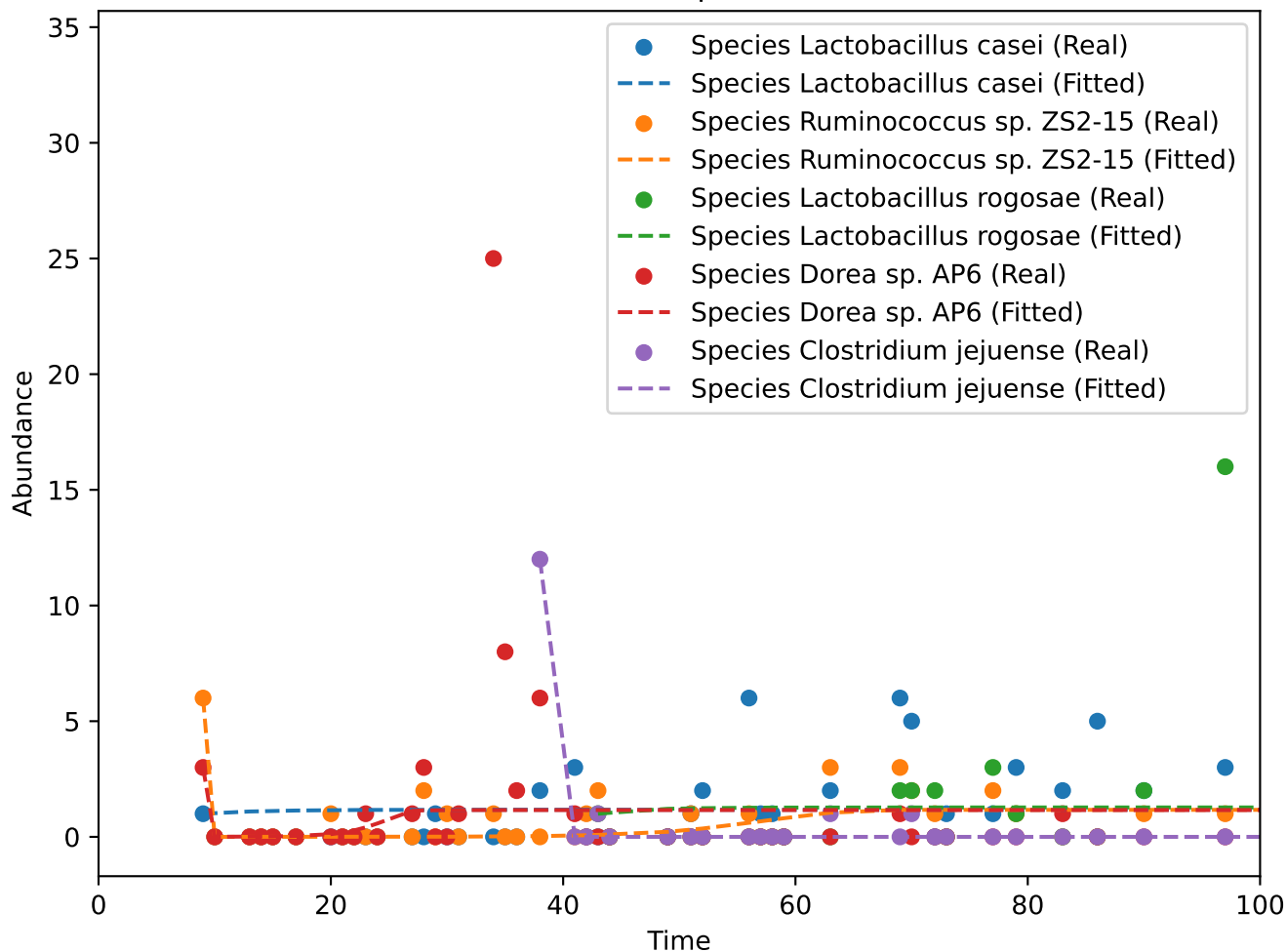




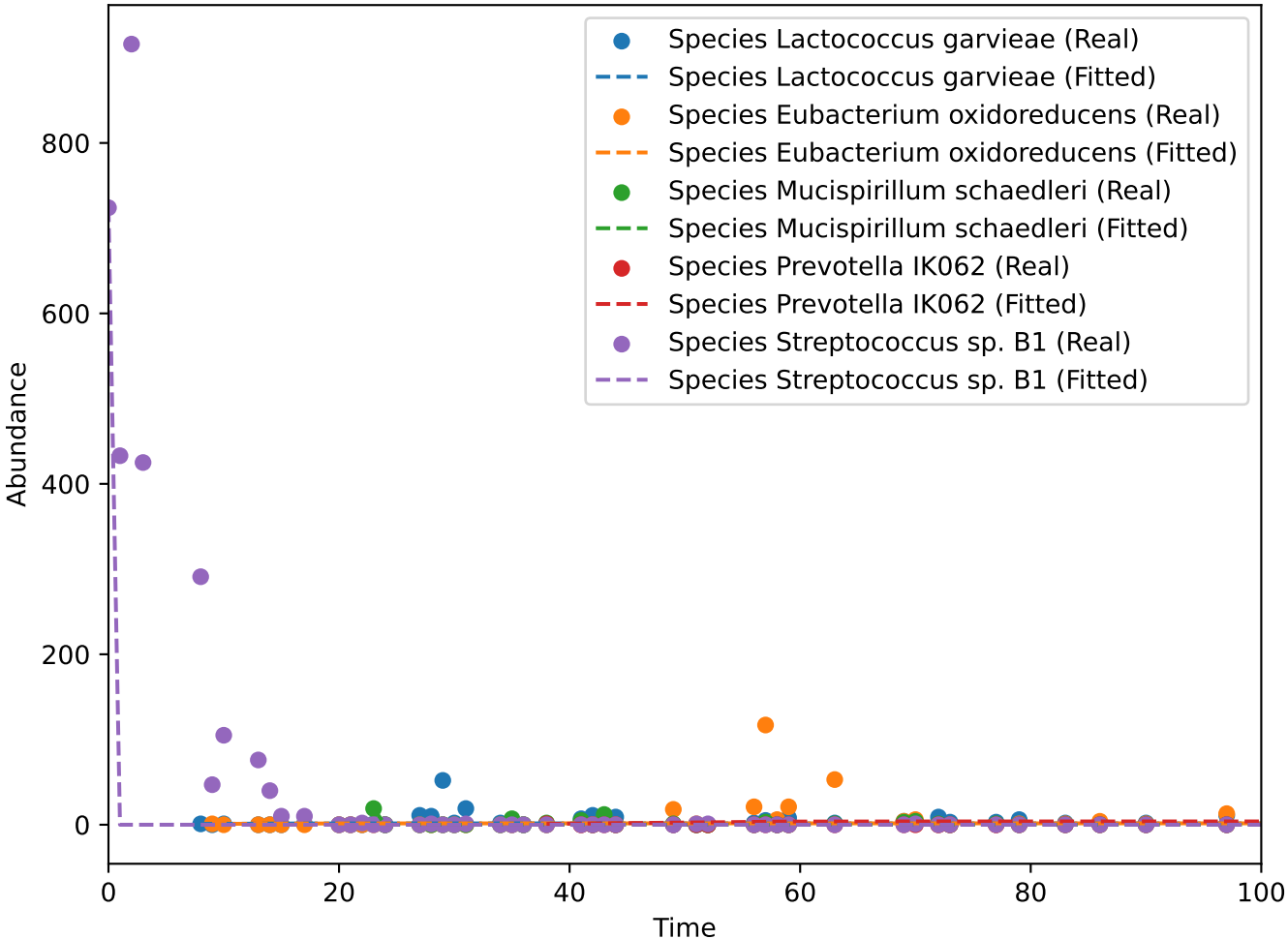
Mouse 3 - Species Fit



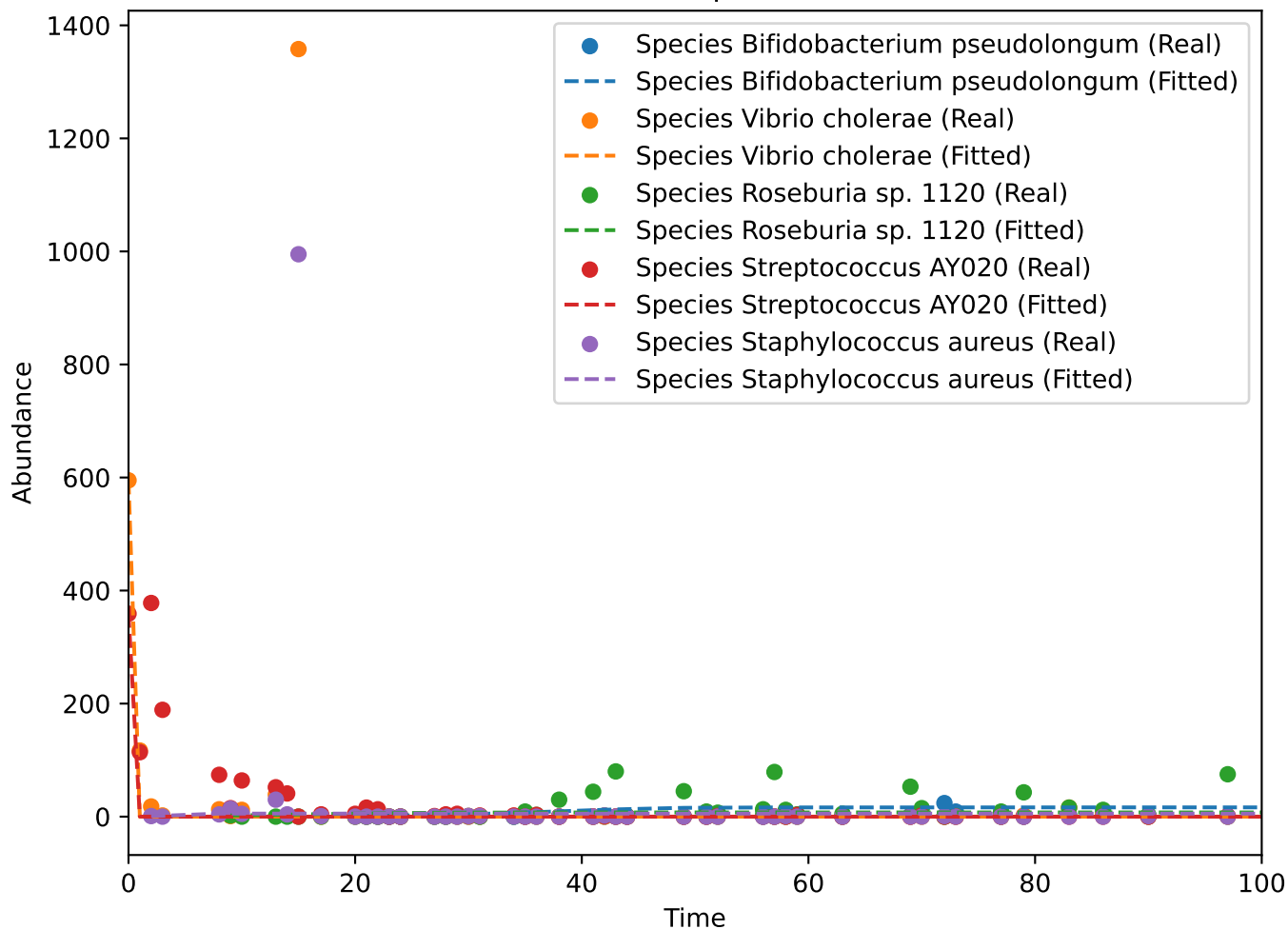
Mouse 3 - Species Fit



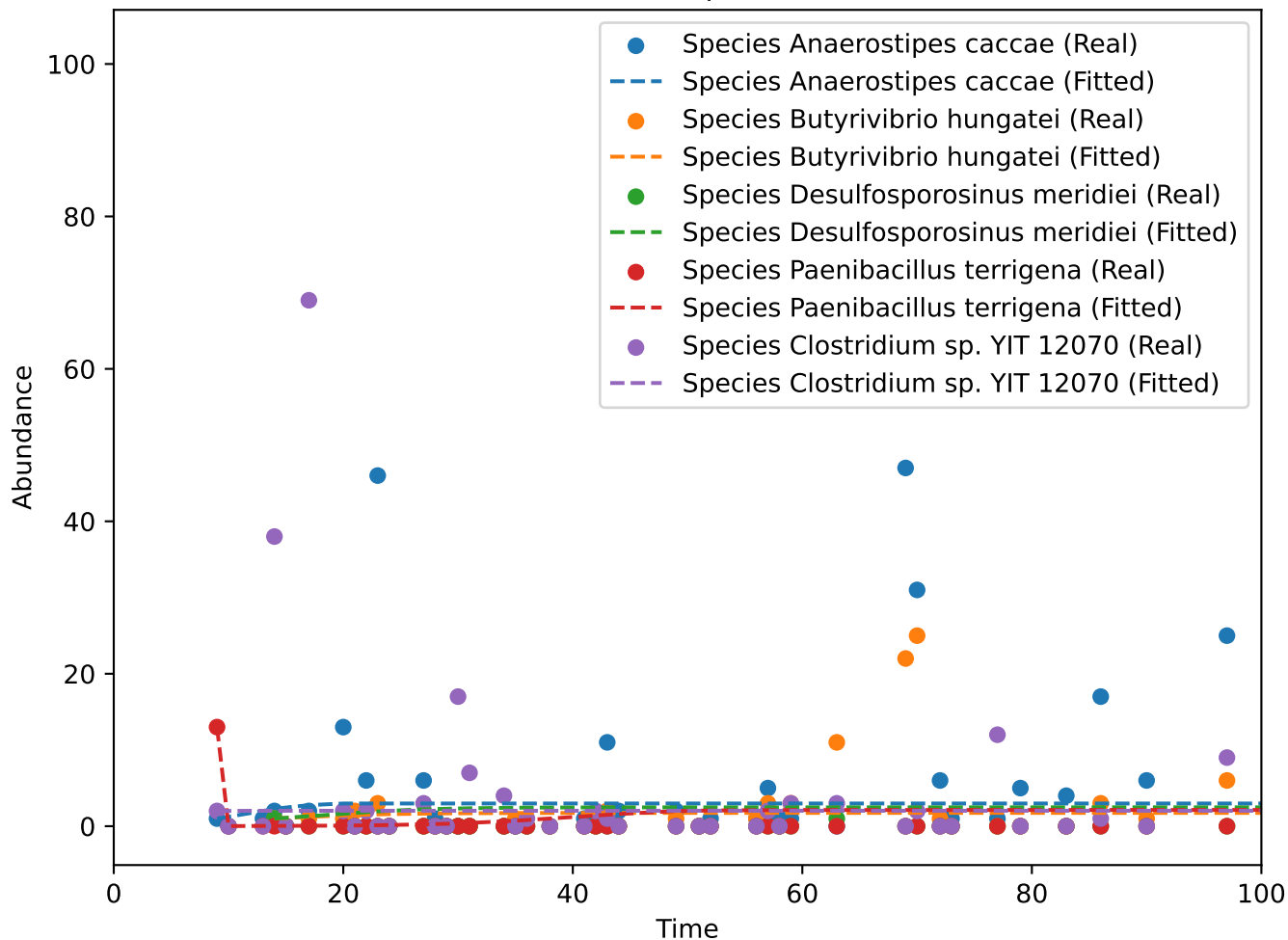
## Mouse 3 - Species Fit



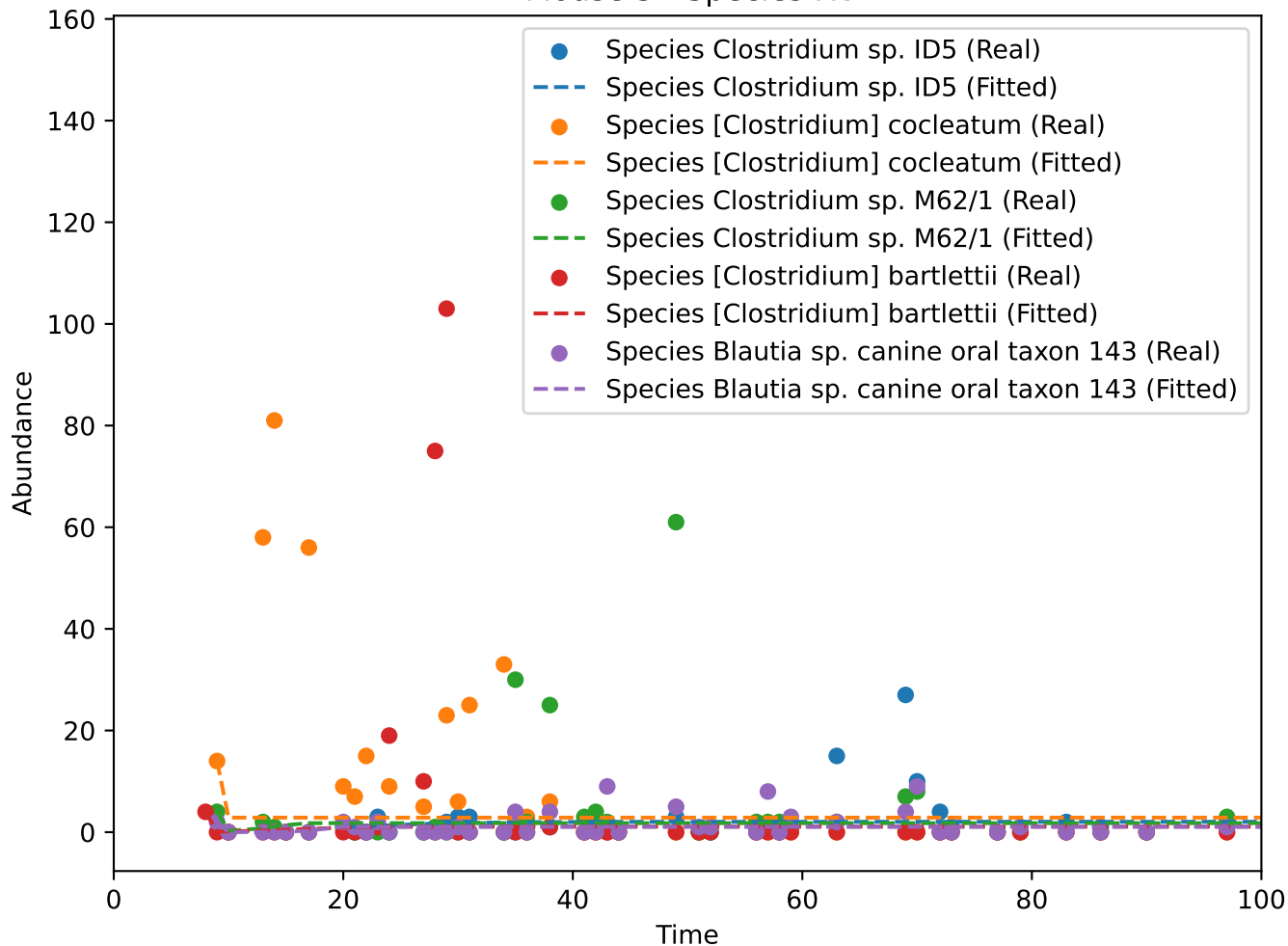
Mouse 3 - Species Fit



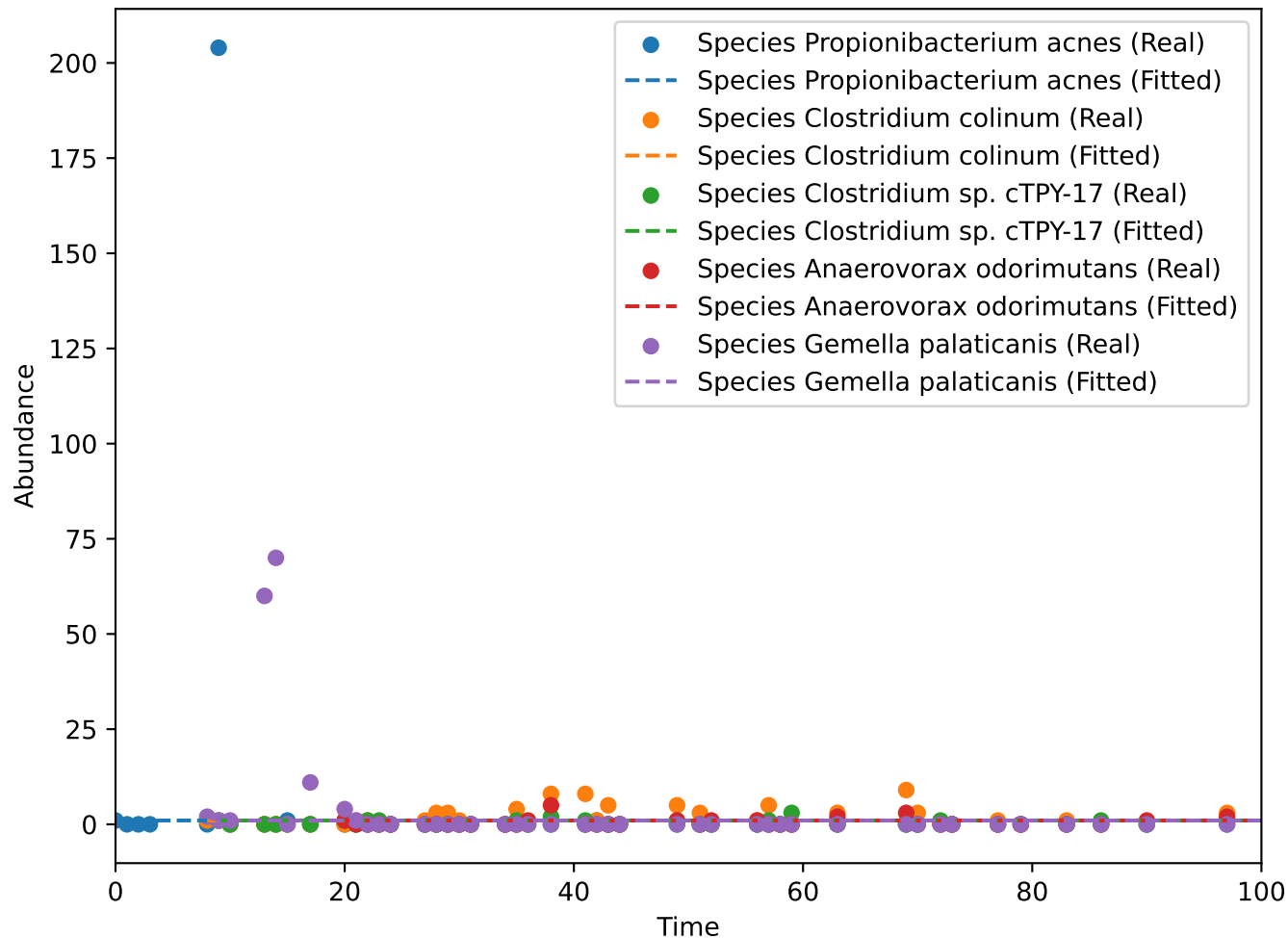
Mouse 3 - Species Fit



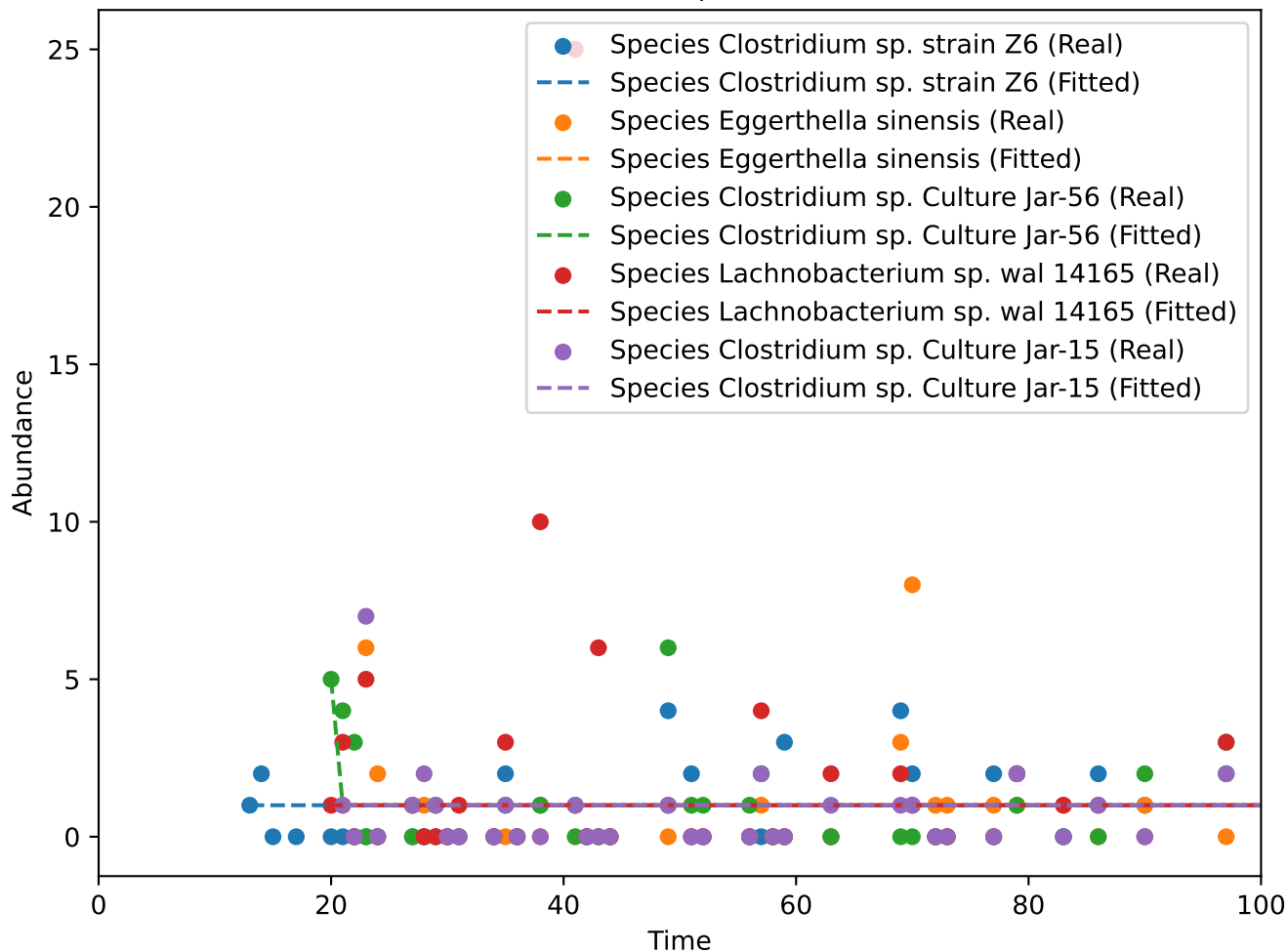
Mouse 3 - Species Fit



\_\_\_\_\_

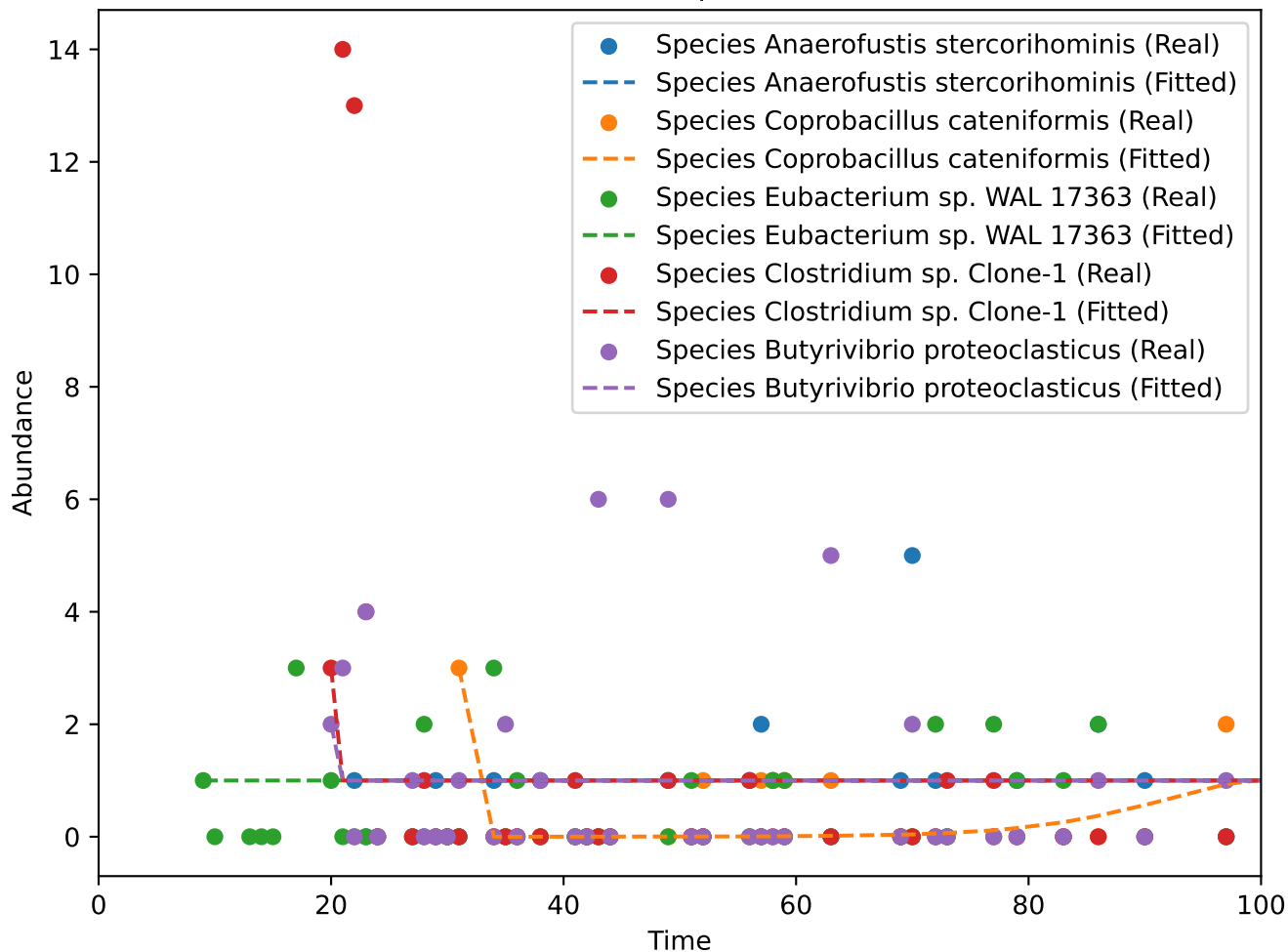


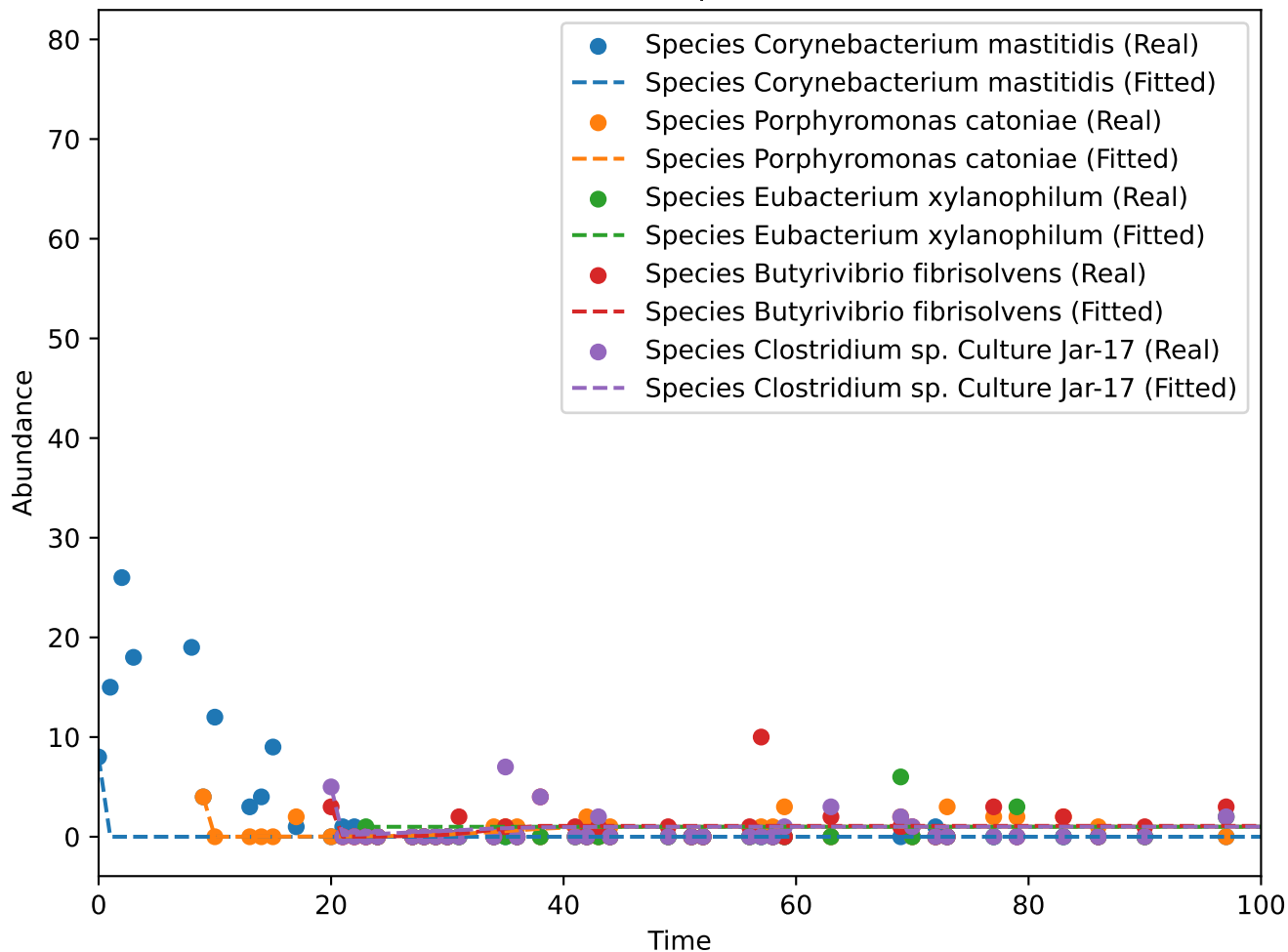
# Mouse 3 - Species Fit



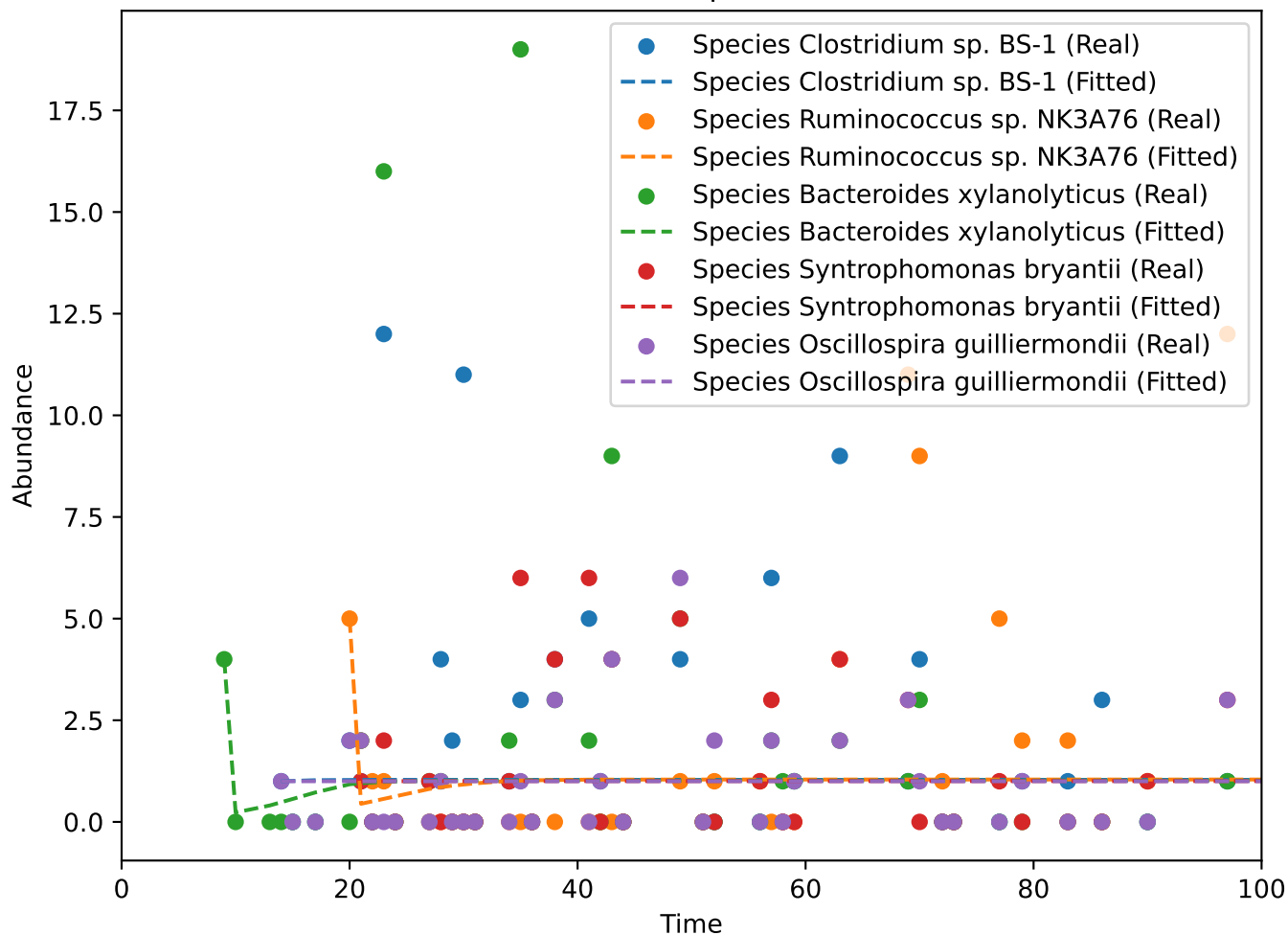


Mouse 3 - Species Fit

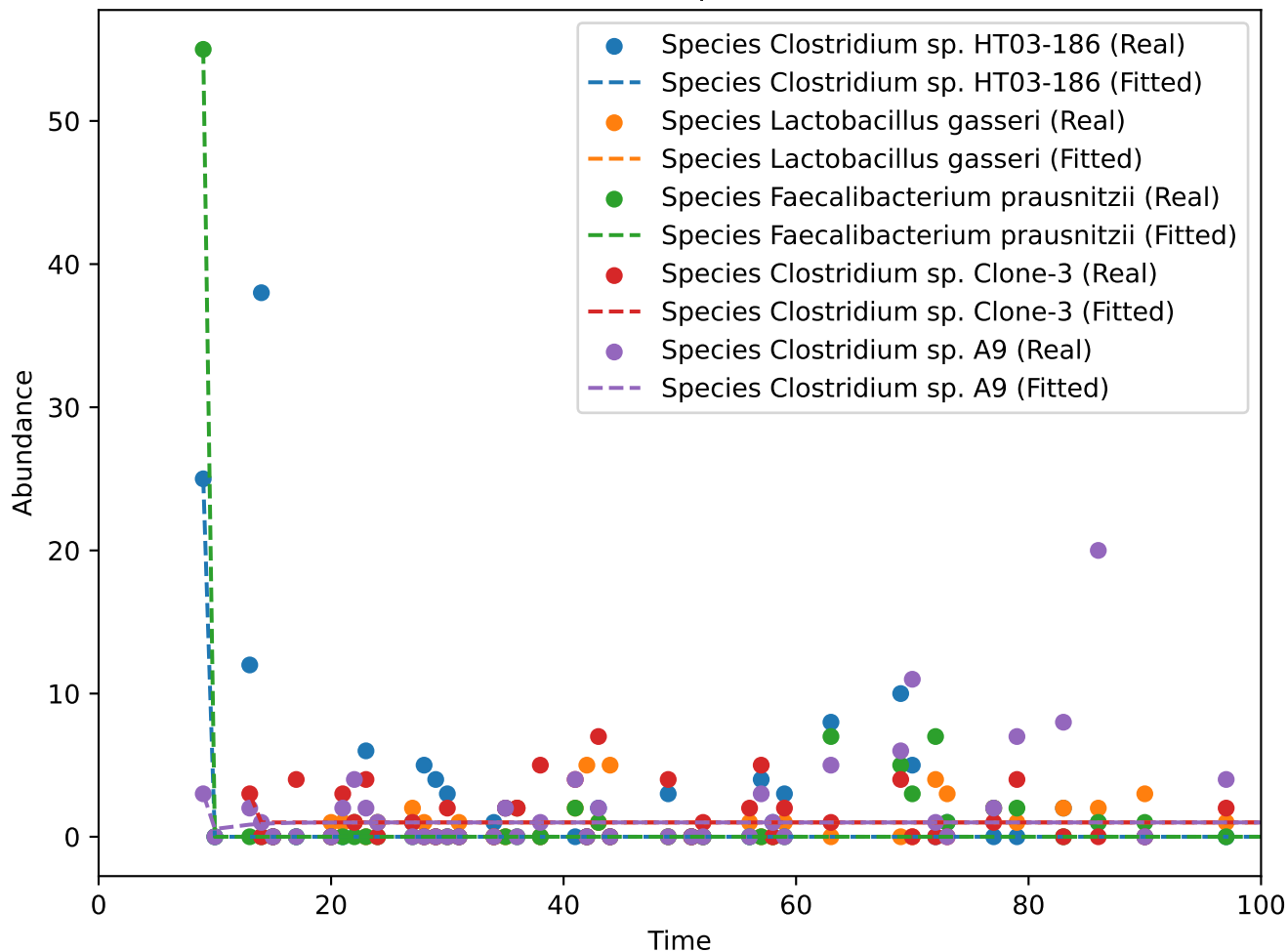




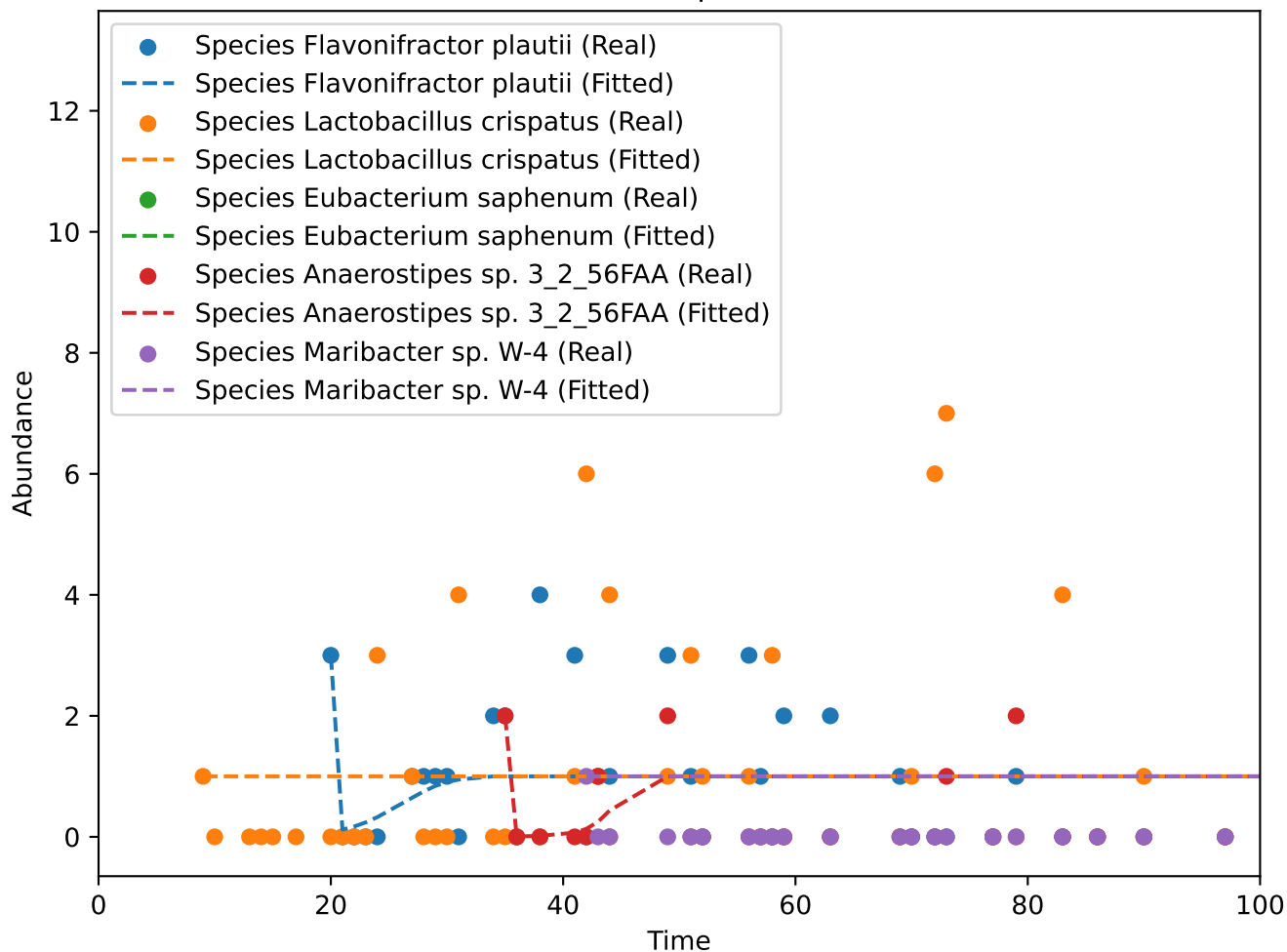
Mouse 3 - Species Fit



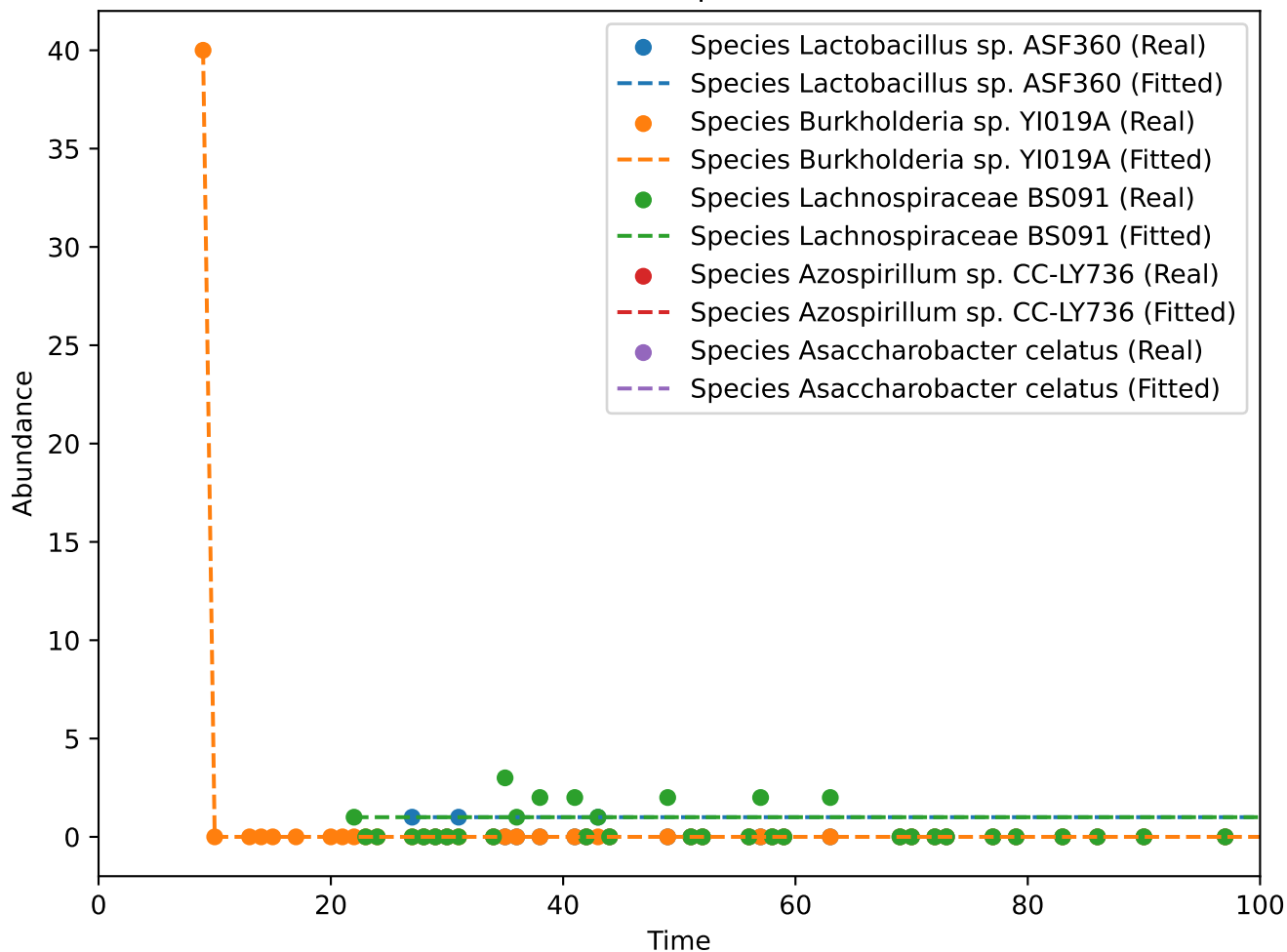
Mouse 3 - Species Fit



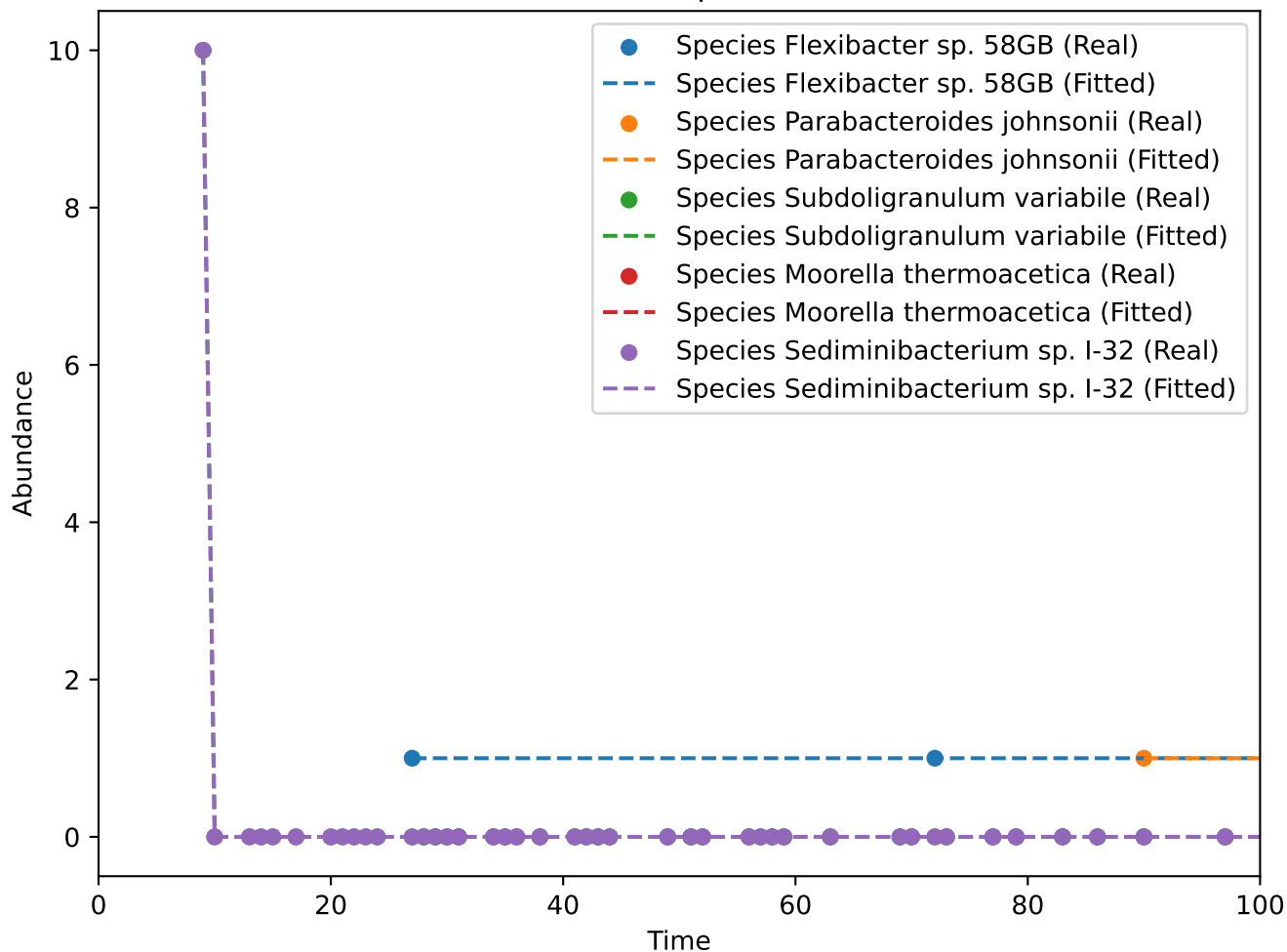
Mouse 3 - Species Fit



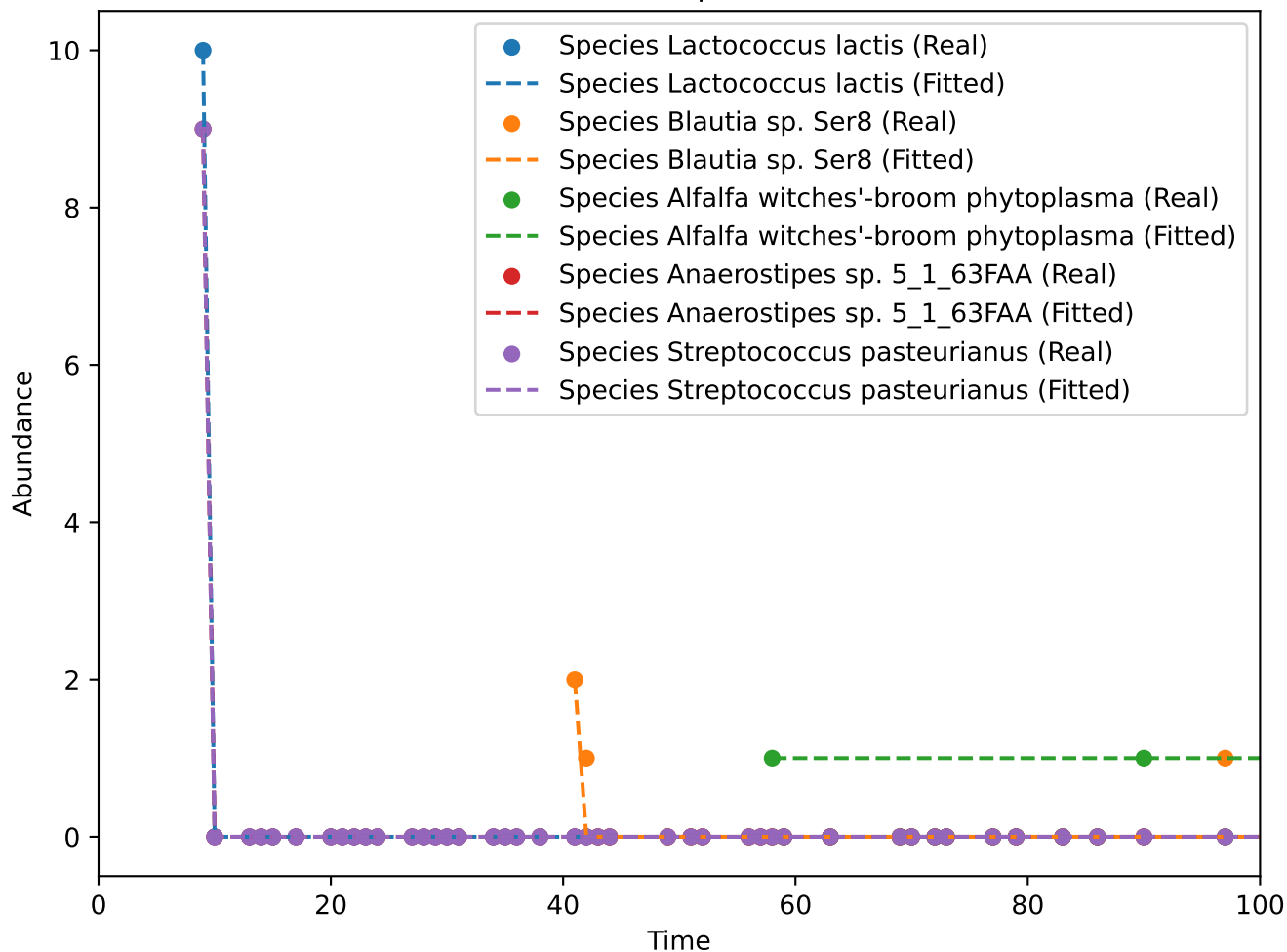
Mouse 3 - Species Fit



\_\_\_\_\_

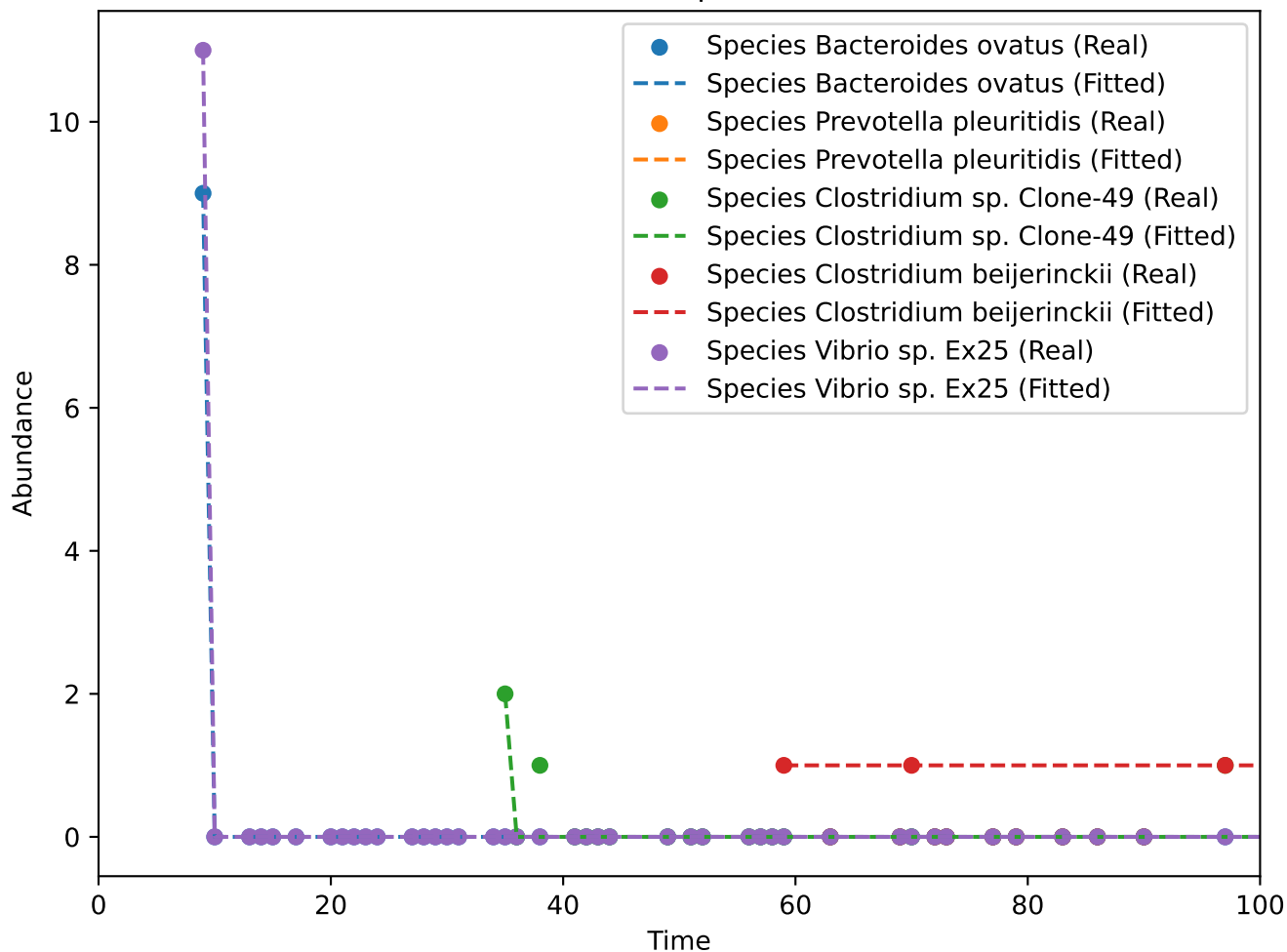


Mouse 3 - Species Fit

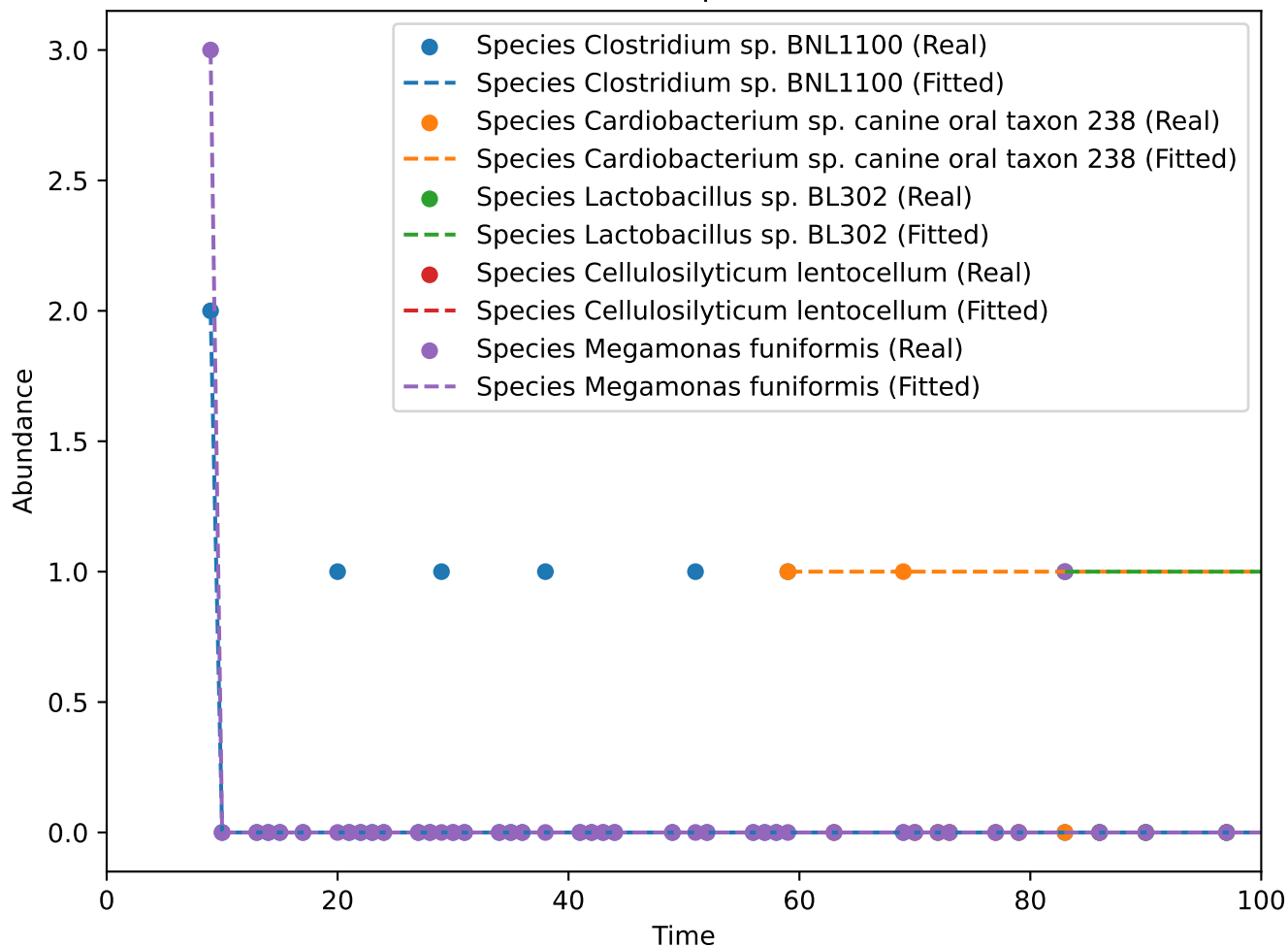




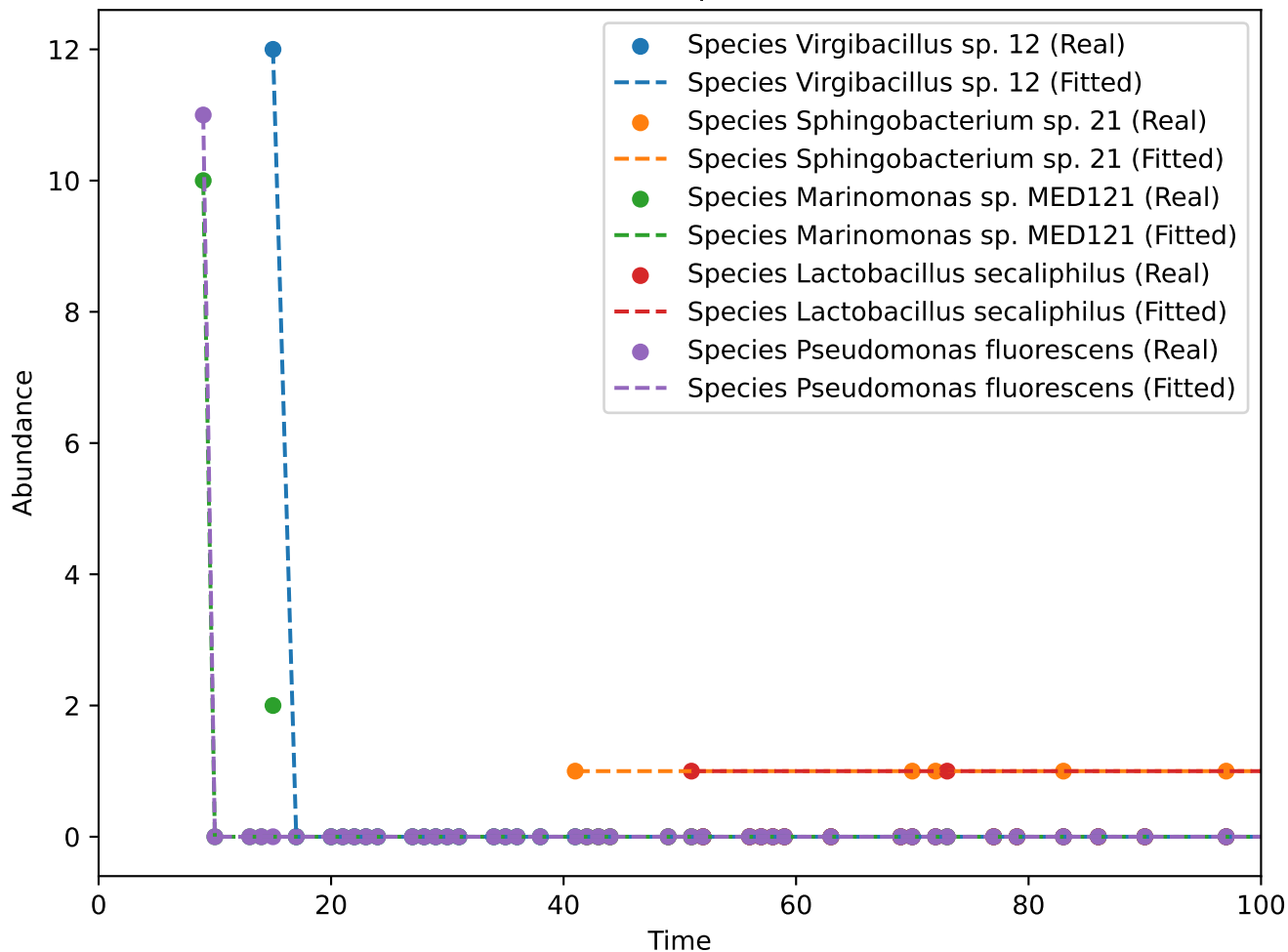
Mouse 3 - Species Fit



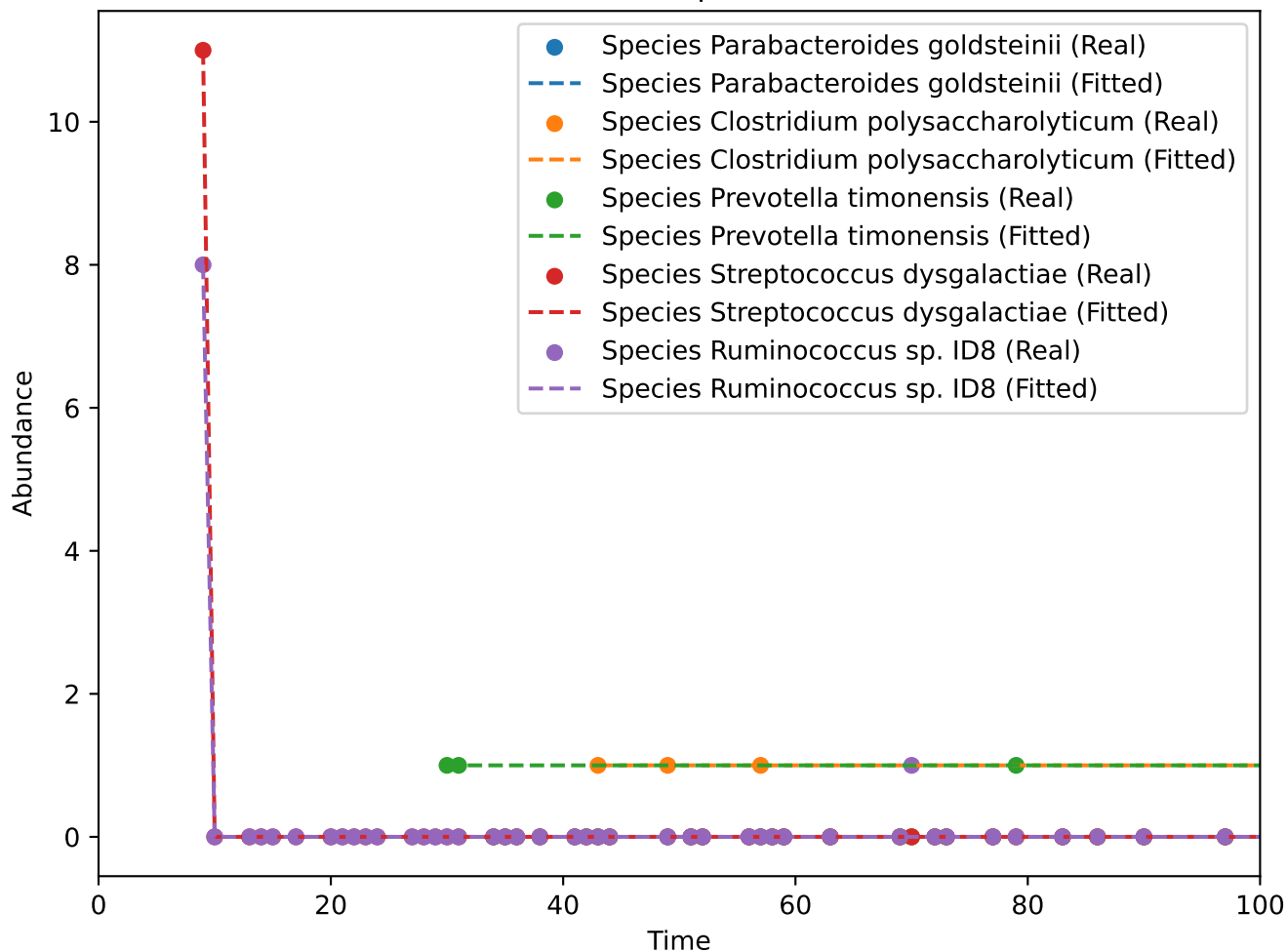
Mouse 3 - Species Fit



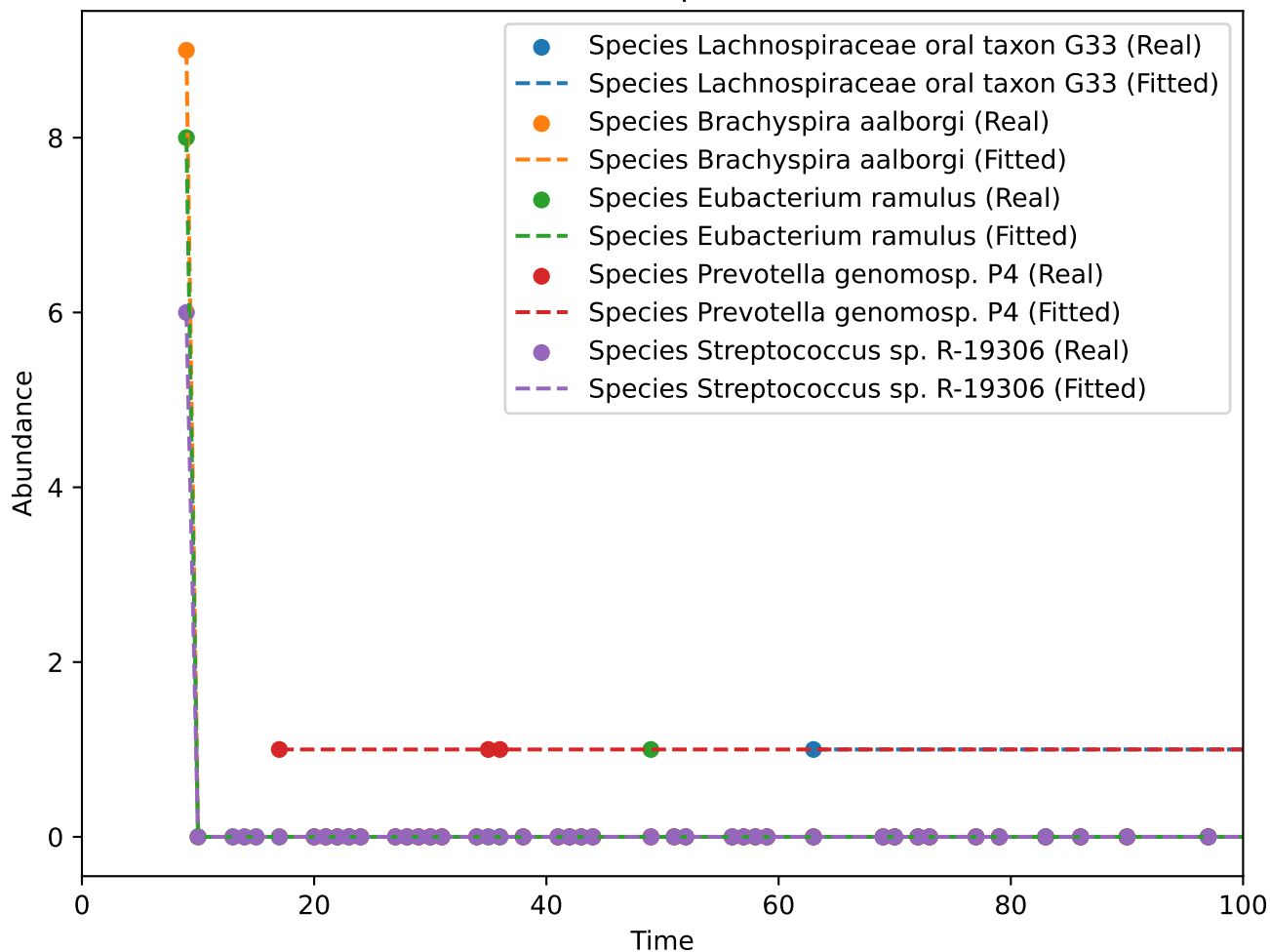
Mouse 3 - Species Fit



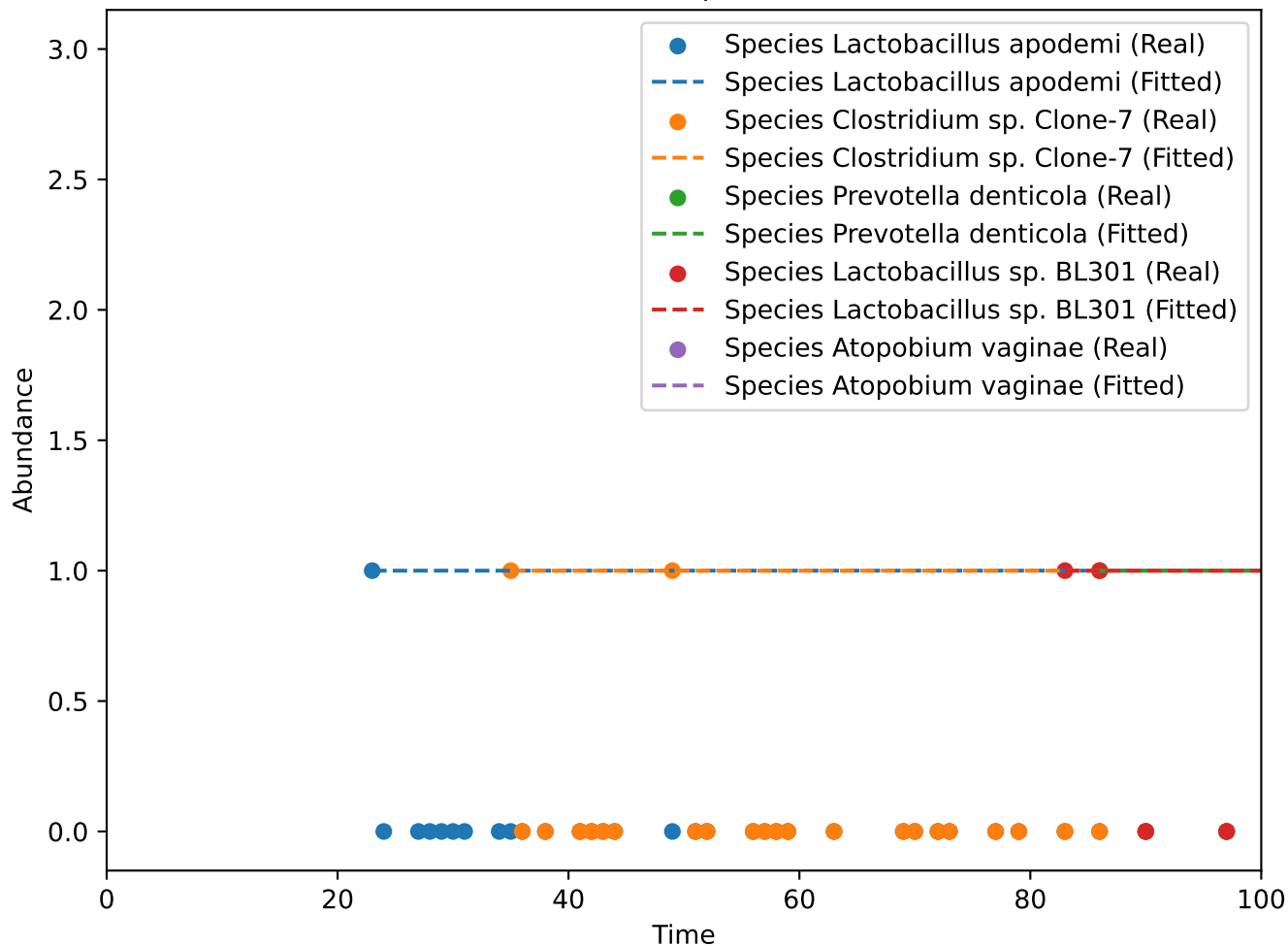
Mouse 3 - Species Fit



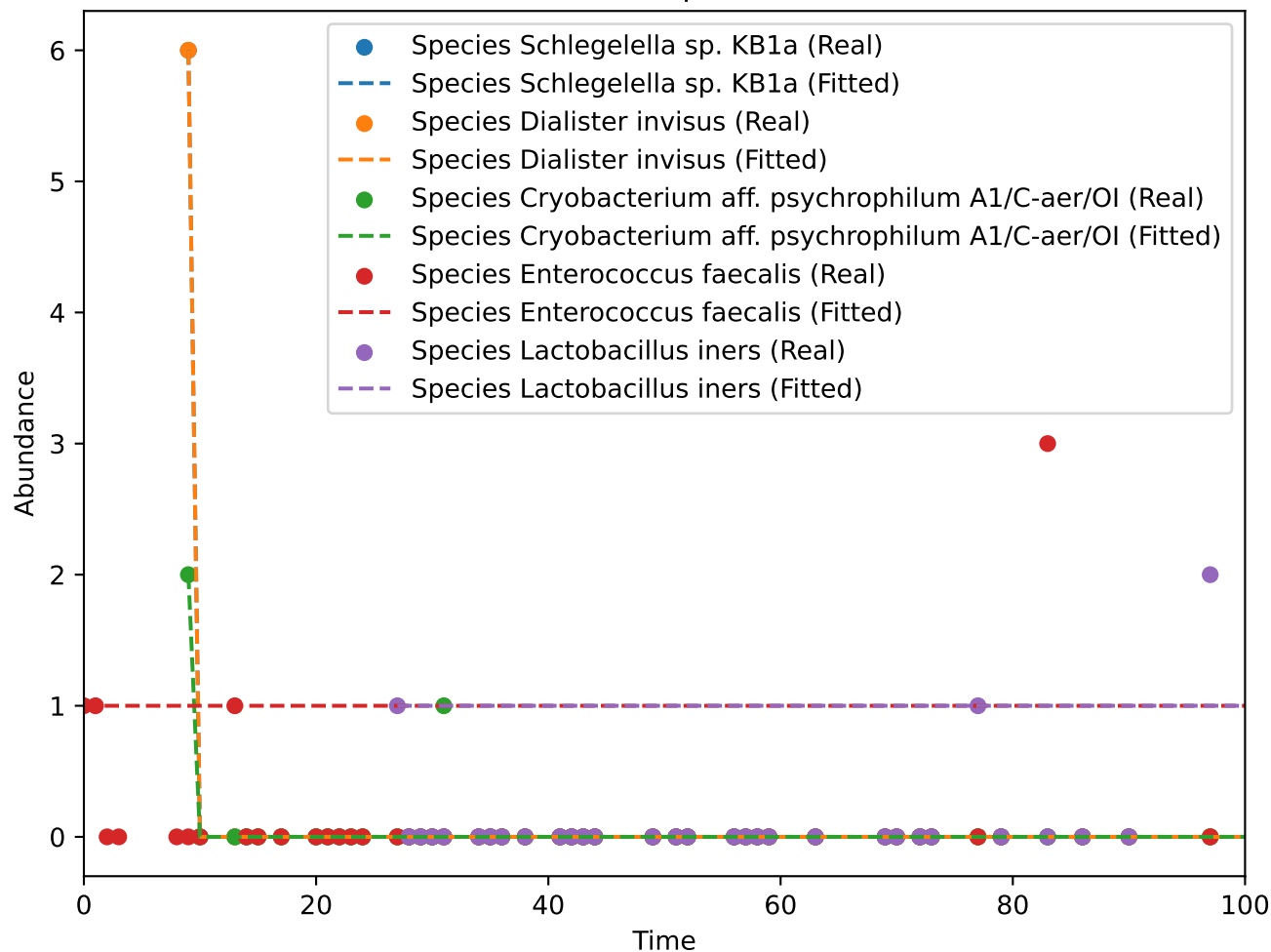
Mouse 3 - Species Fit



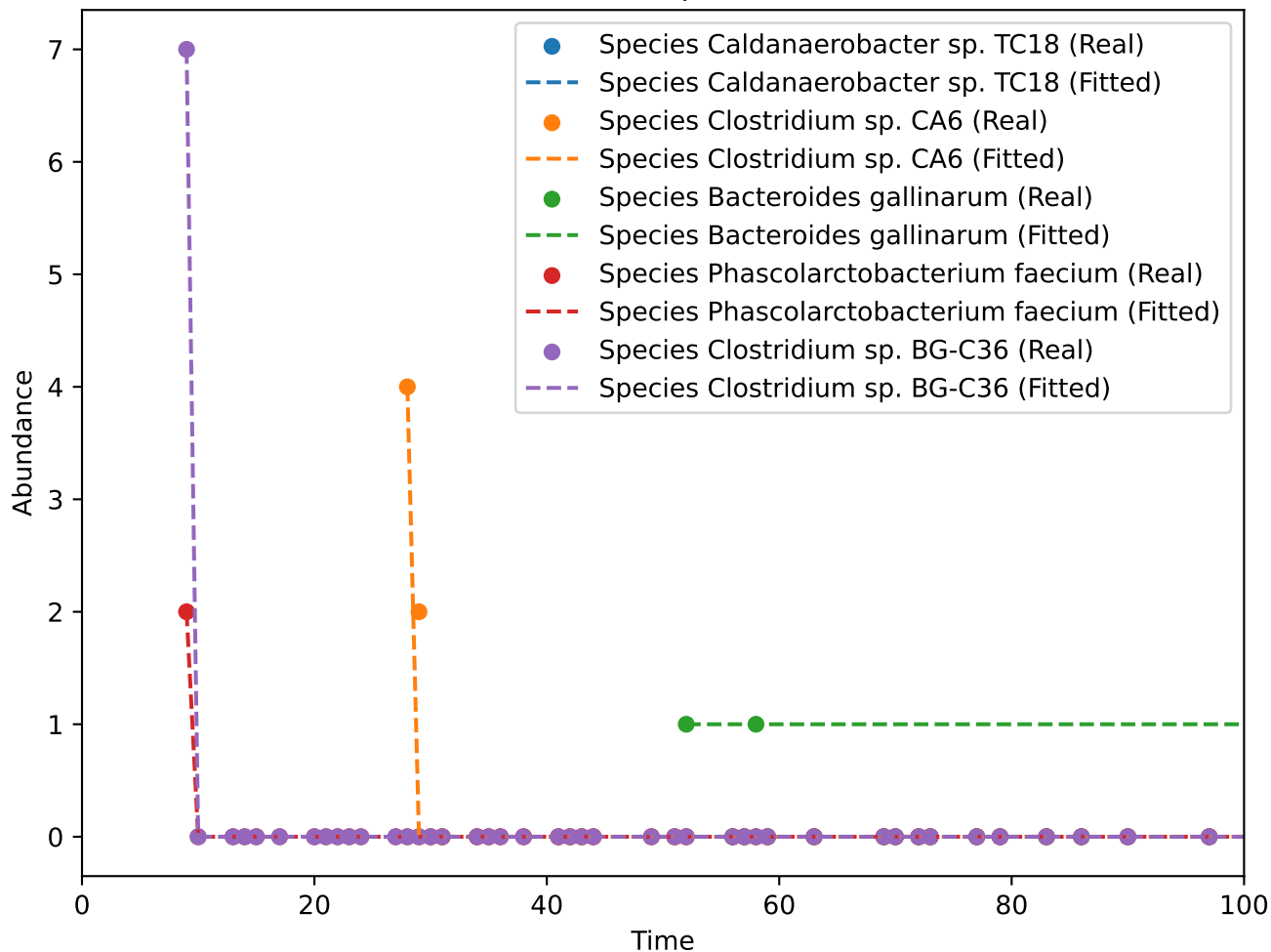
Mouse 3 - Species Fit



# Mouse 3 - Species Fit

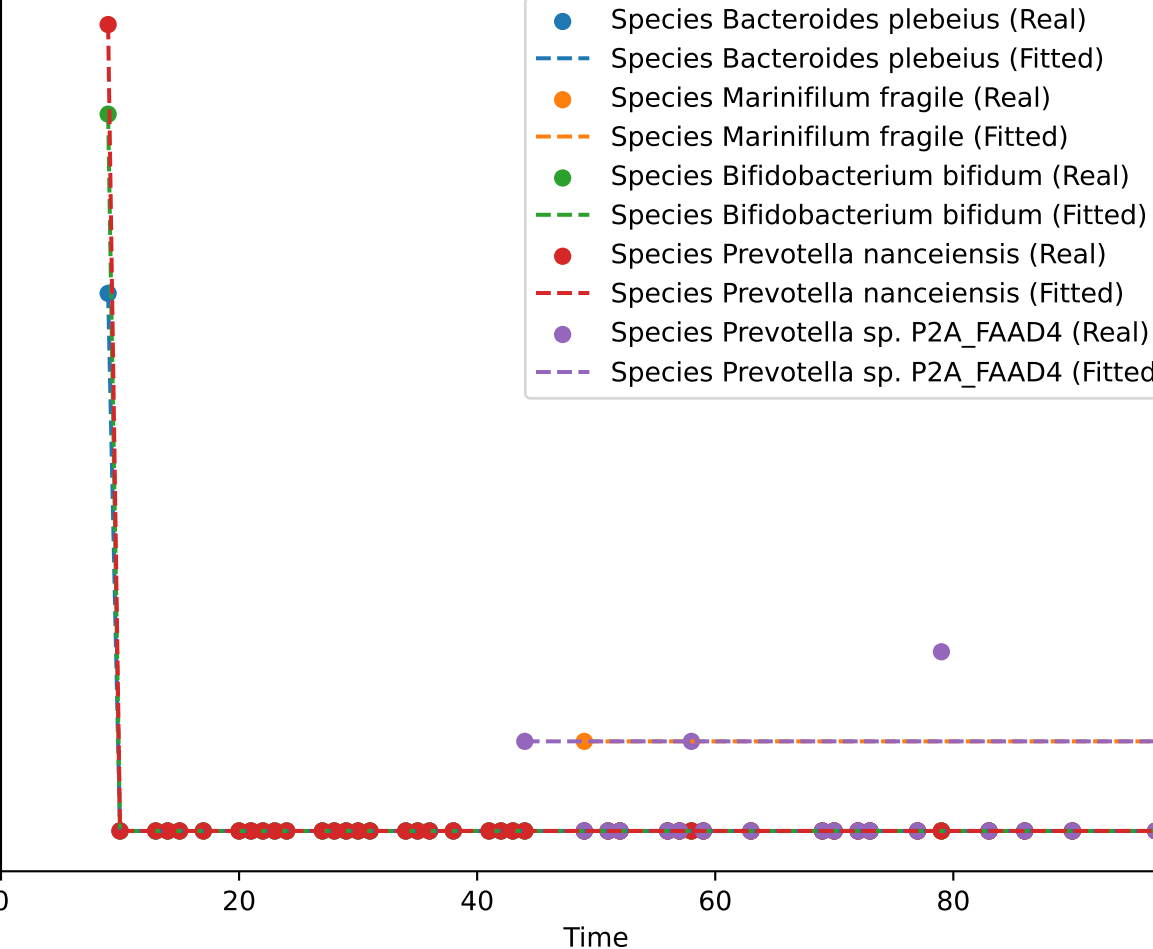


### Mouse 3 - Species Fit





\_\_\_\_\_



Species Flavobacterium sp. KB10 (Real)

Species Flavobacterium sp. KB10 (Fitted)

Species Candidatus Lumbricincola sp. Lr-G2 (Real)

Species Candidatus Lumbricincola sp. Lr-G2 (Fitted)

Species Paenibacillus sp. Y412MC10 (Real)

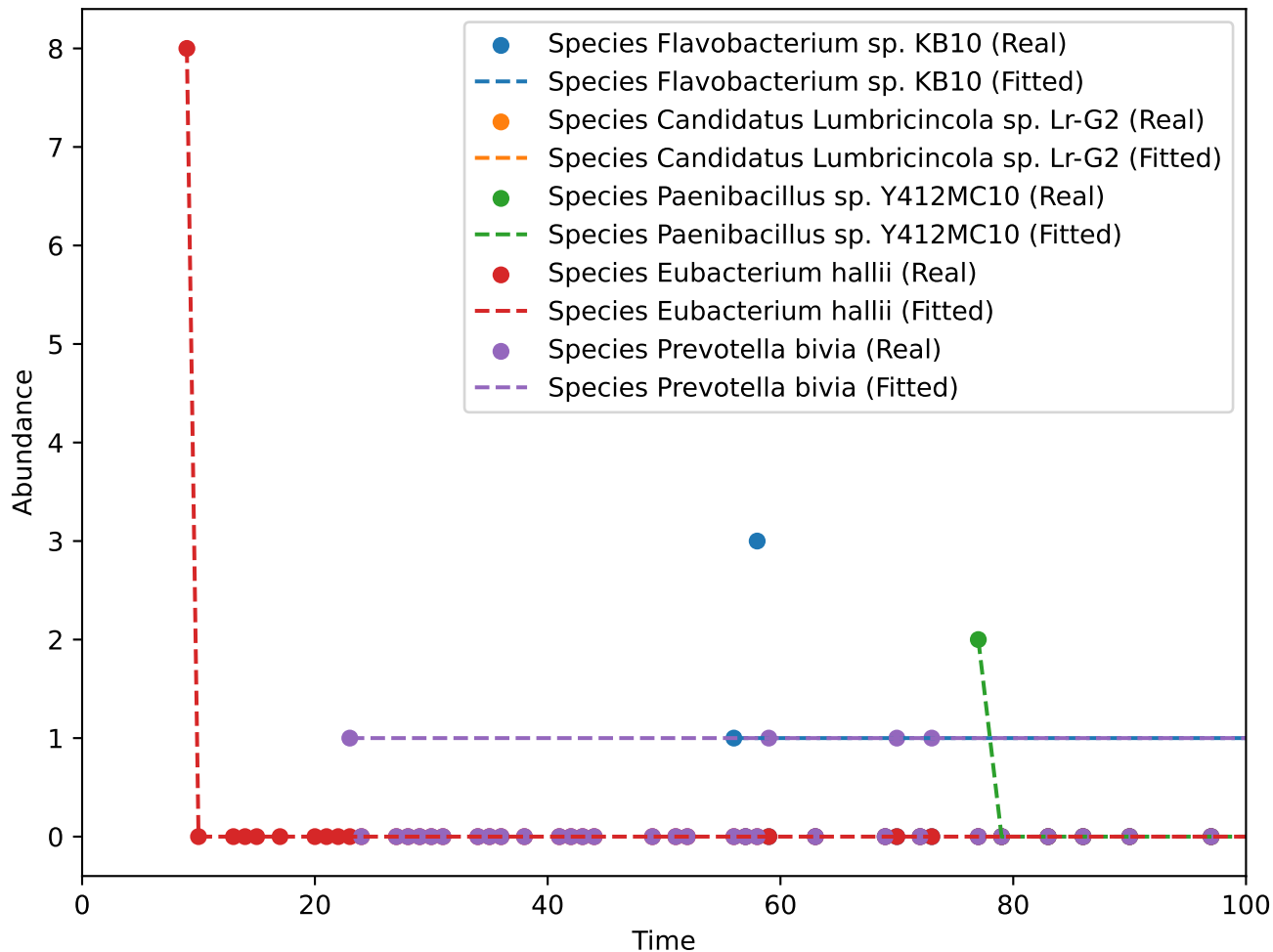
Species Paenibacillus sp. Y412MC10 (Fitted)

Species Eubacterium hallii (Real)

Species Eubacterium hallii (Fitted)

Species Prevotella bivia (Real)

Species Prevotella bivia (Fitted)



Species Streptococcus genomosp. C6 (Real)

Species Streptococcus genomosp. C6 (Fitted)

Species Prevotella sp. canine oral taxon 226 (Real)

Species Prevotella sp. canine oral taxon 226 (Fitted)

Species Clostridium sp. Clone-40 (Real)

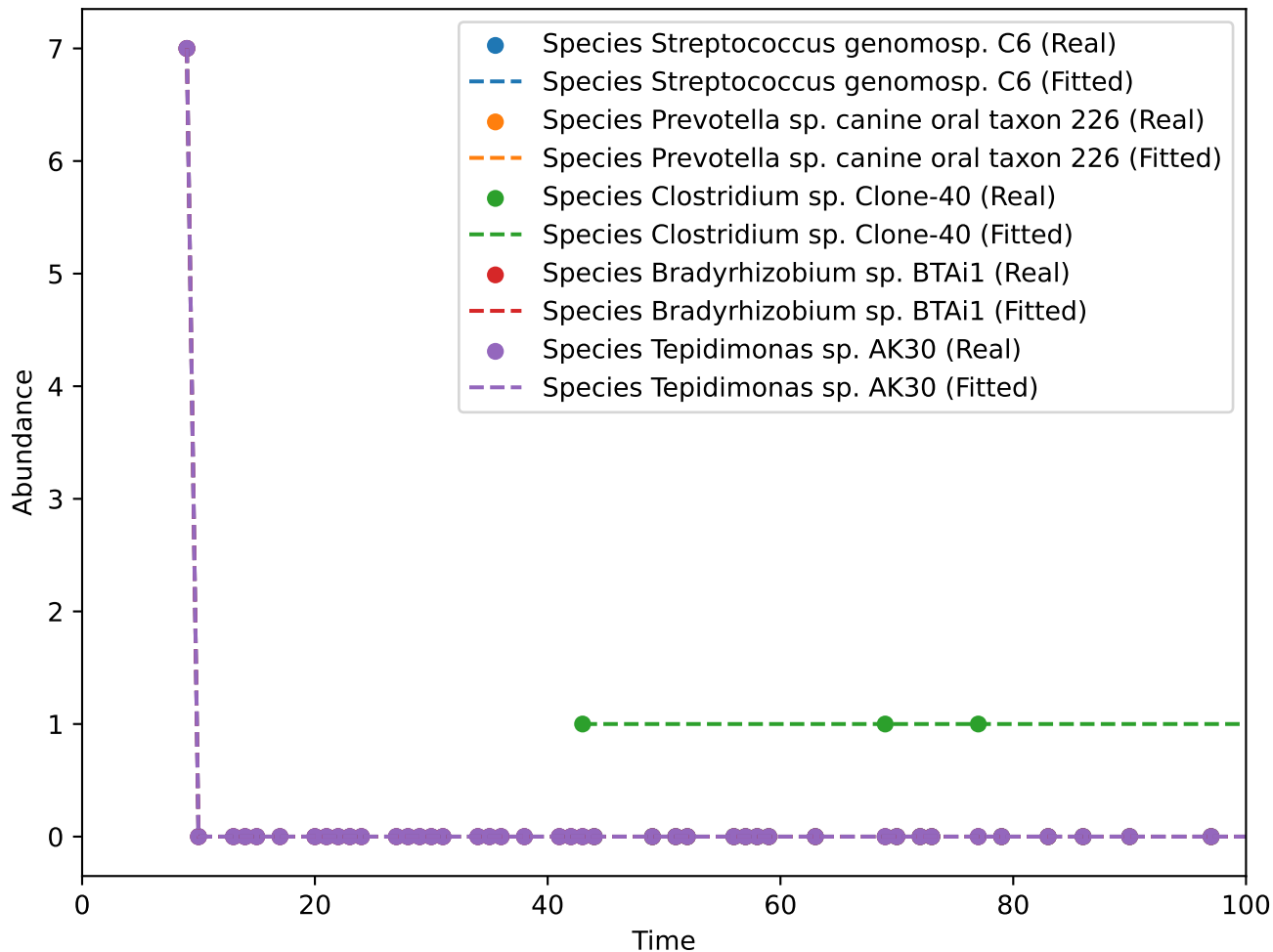
Species Clostridium sp. Clone-40 (Fitted)

Species Bradyrhizobium sp. BTAi1 (Real)

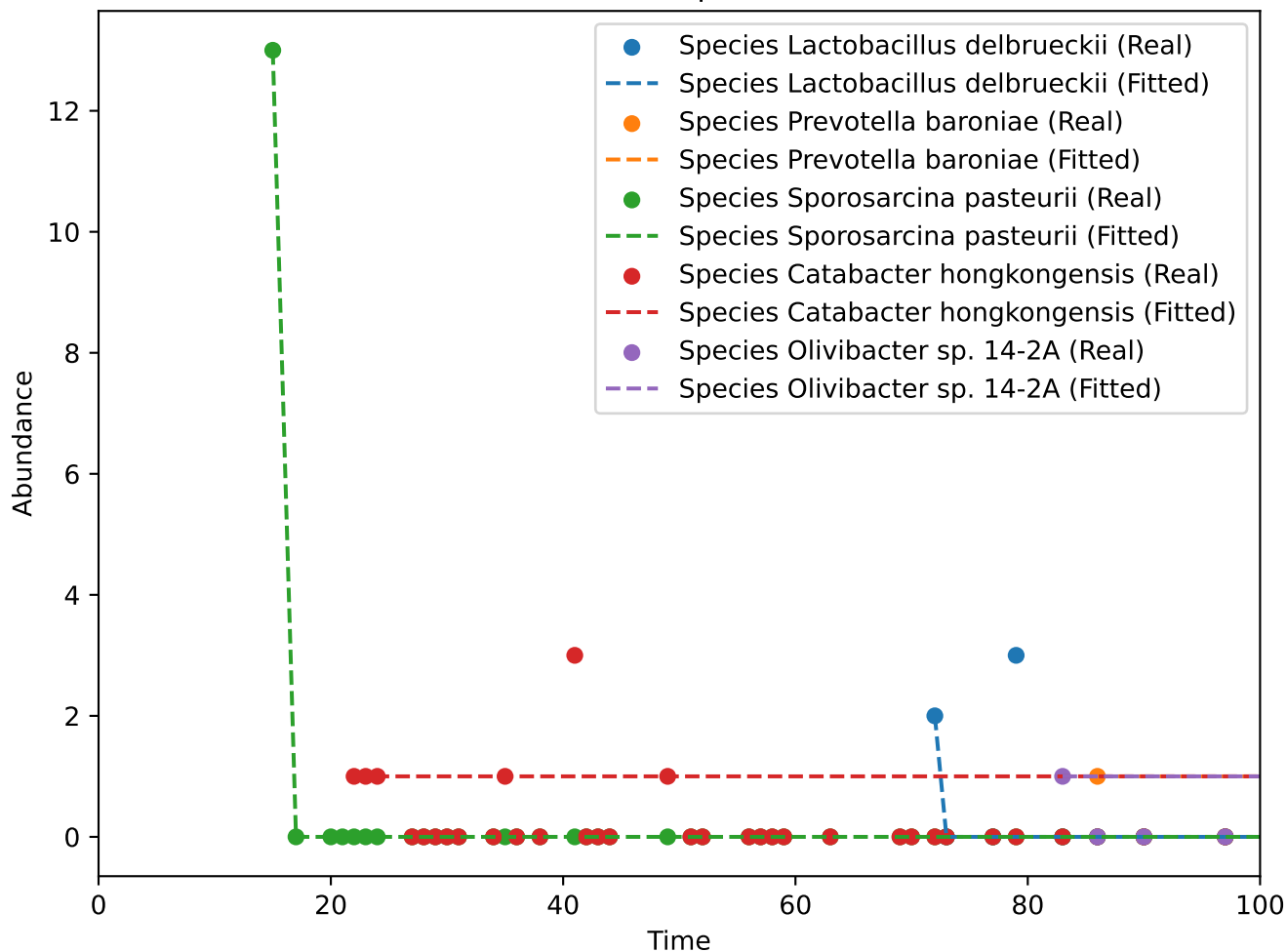
Species Bradyrhizobium sp. BTAi1 (Fitted)

Species Tepidimonas sp. AK30 (Real)

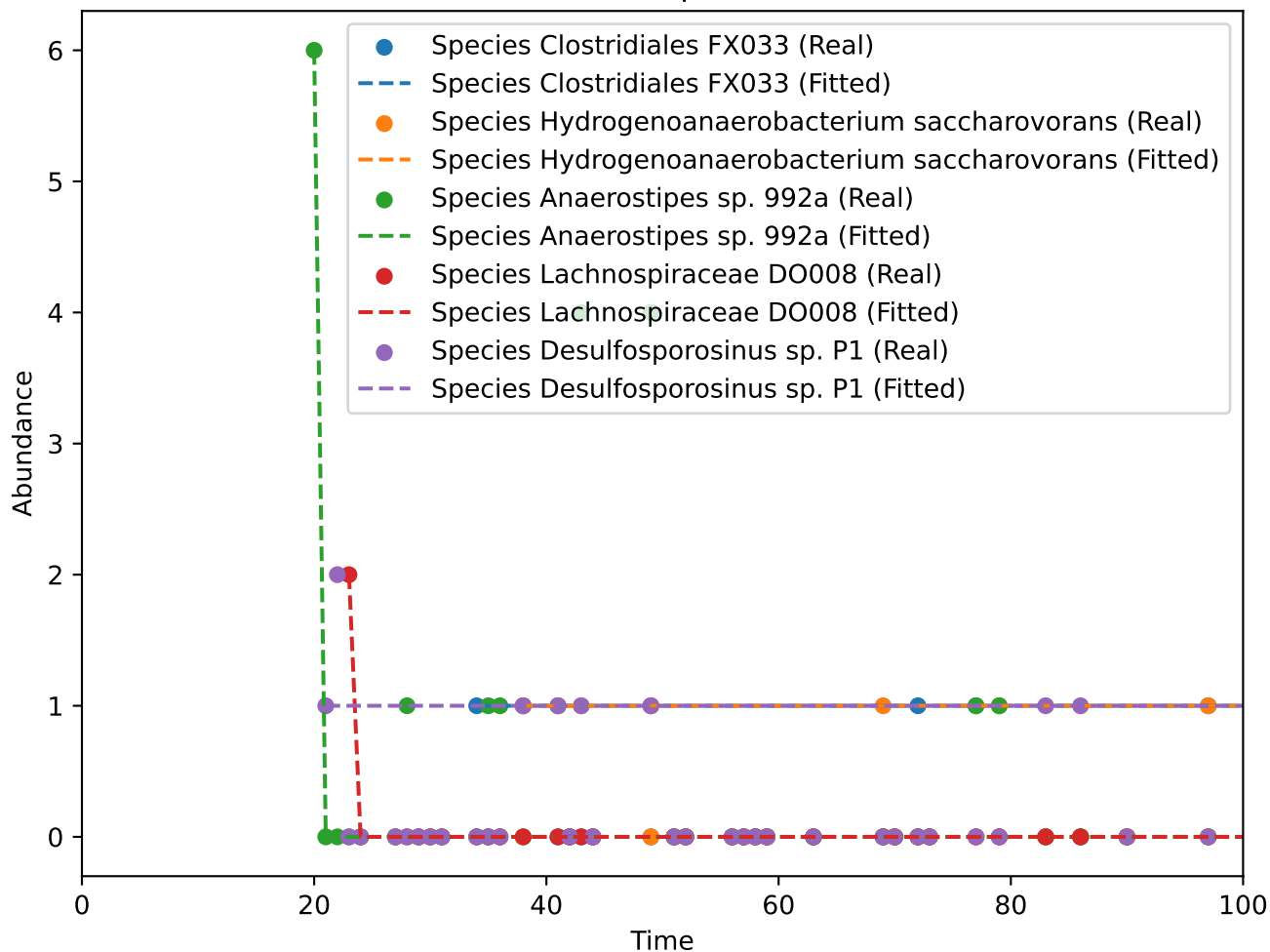
Species Tepidimonas sp. AK30 (Fitted)



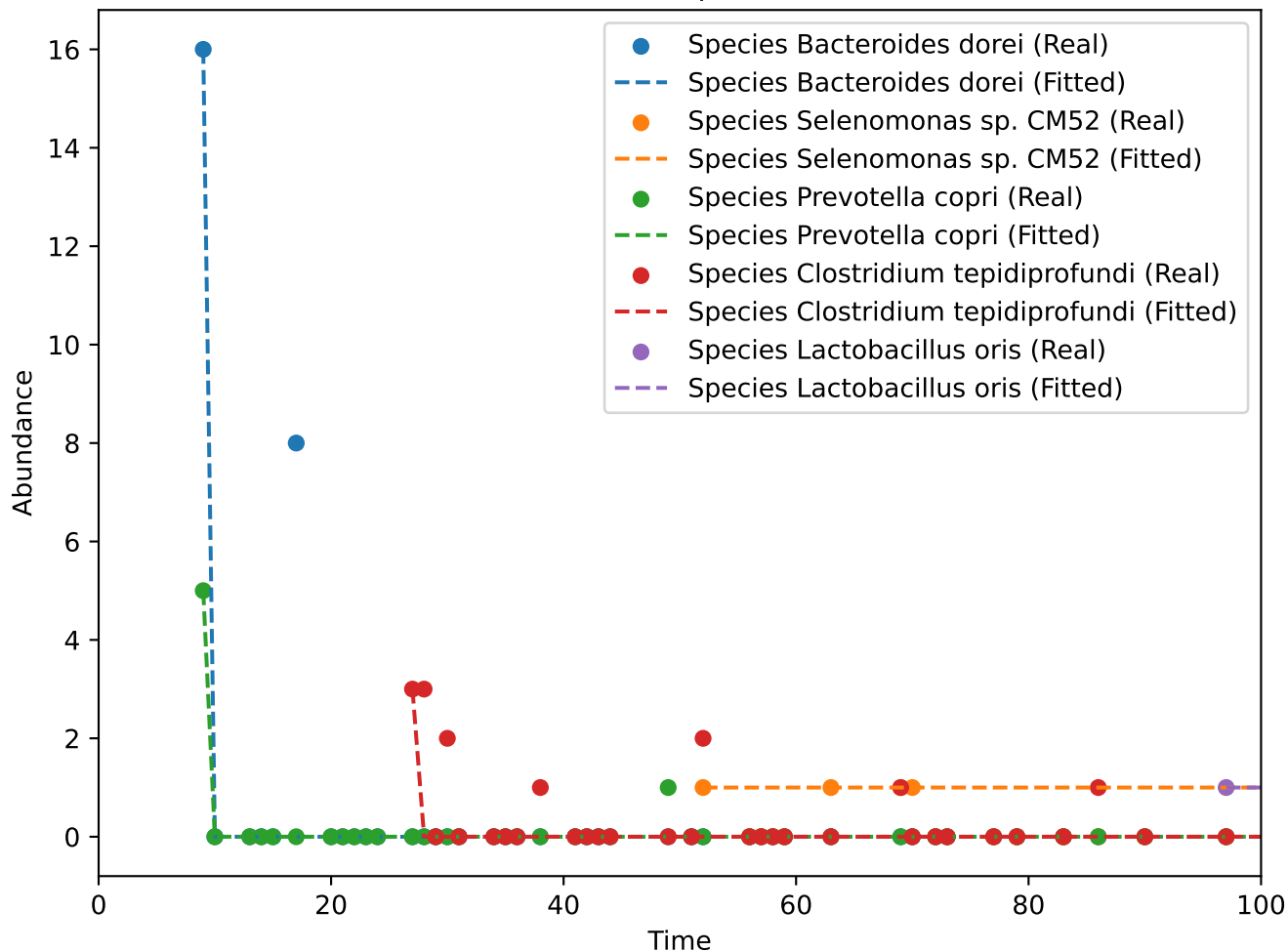
Mouse 3 - Species Fit



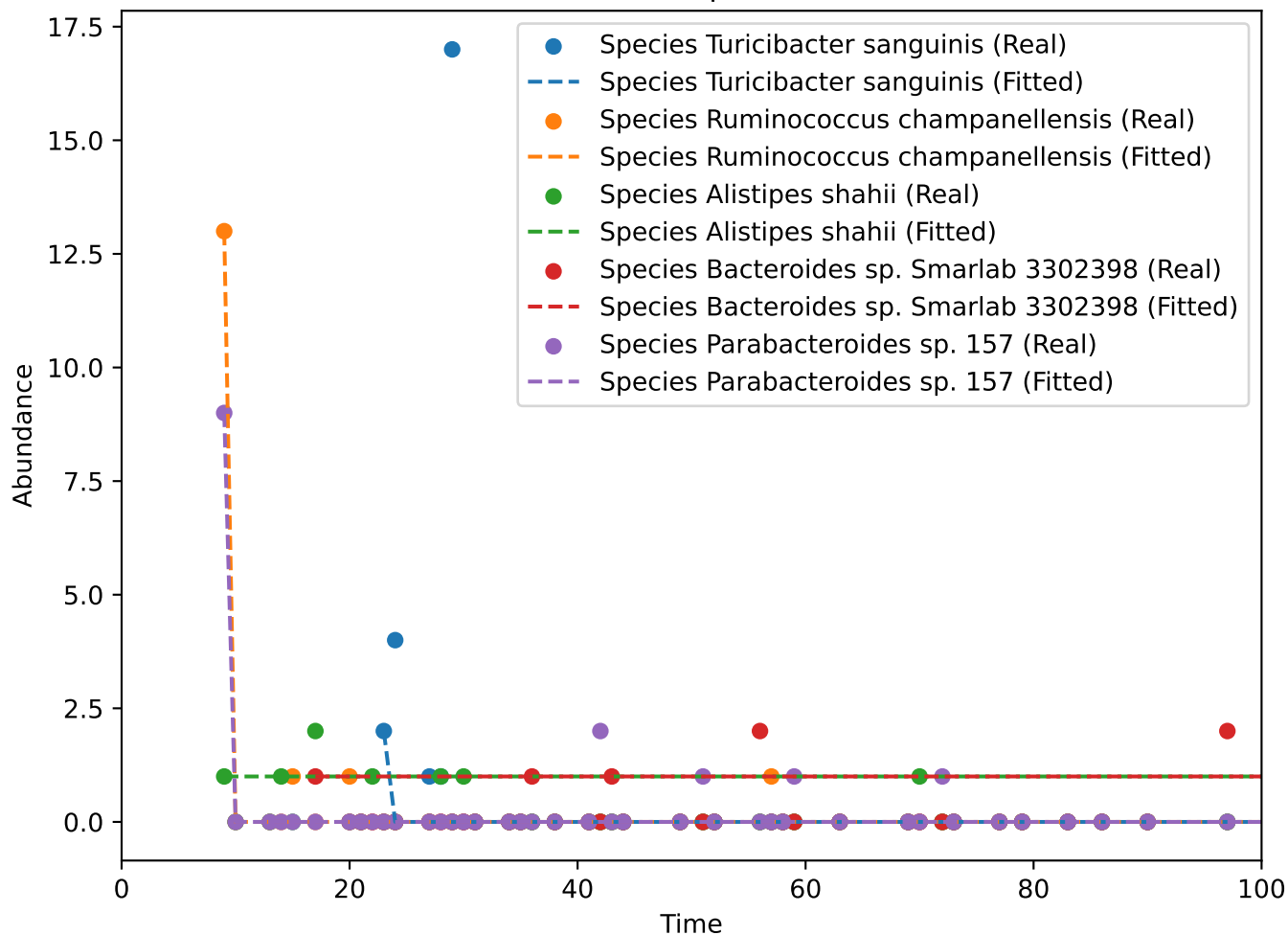
# Mouse 3 - Species Fit



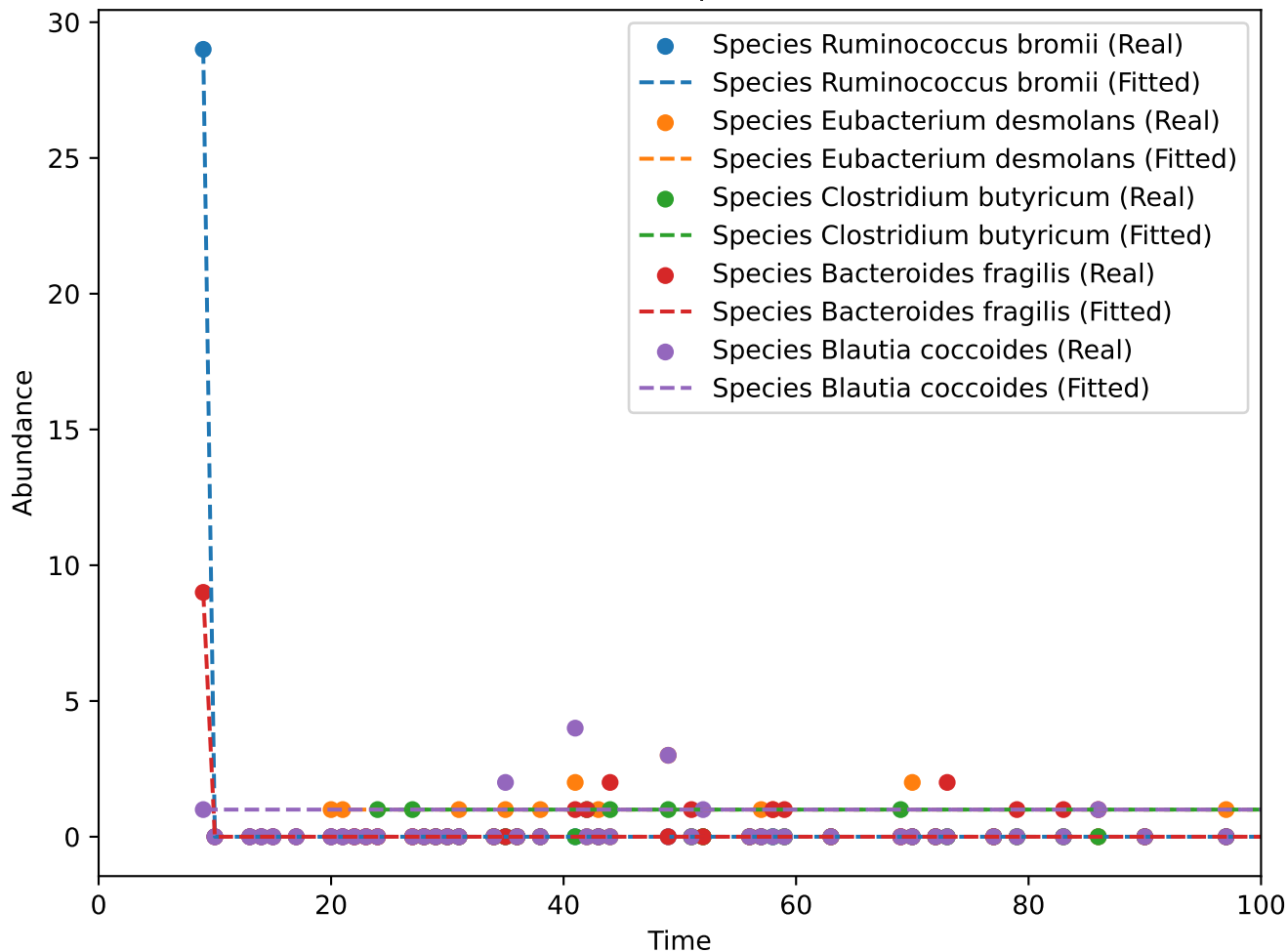
Mouse 3 - Species Fit



Mouse 3 - Species Fit

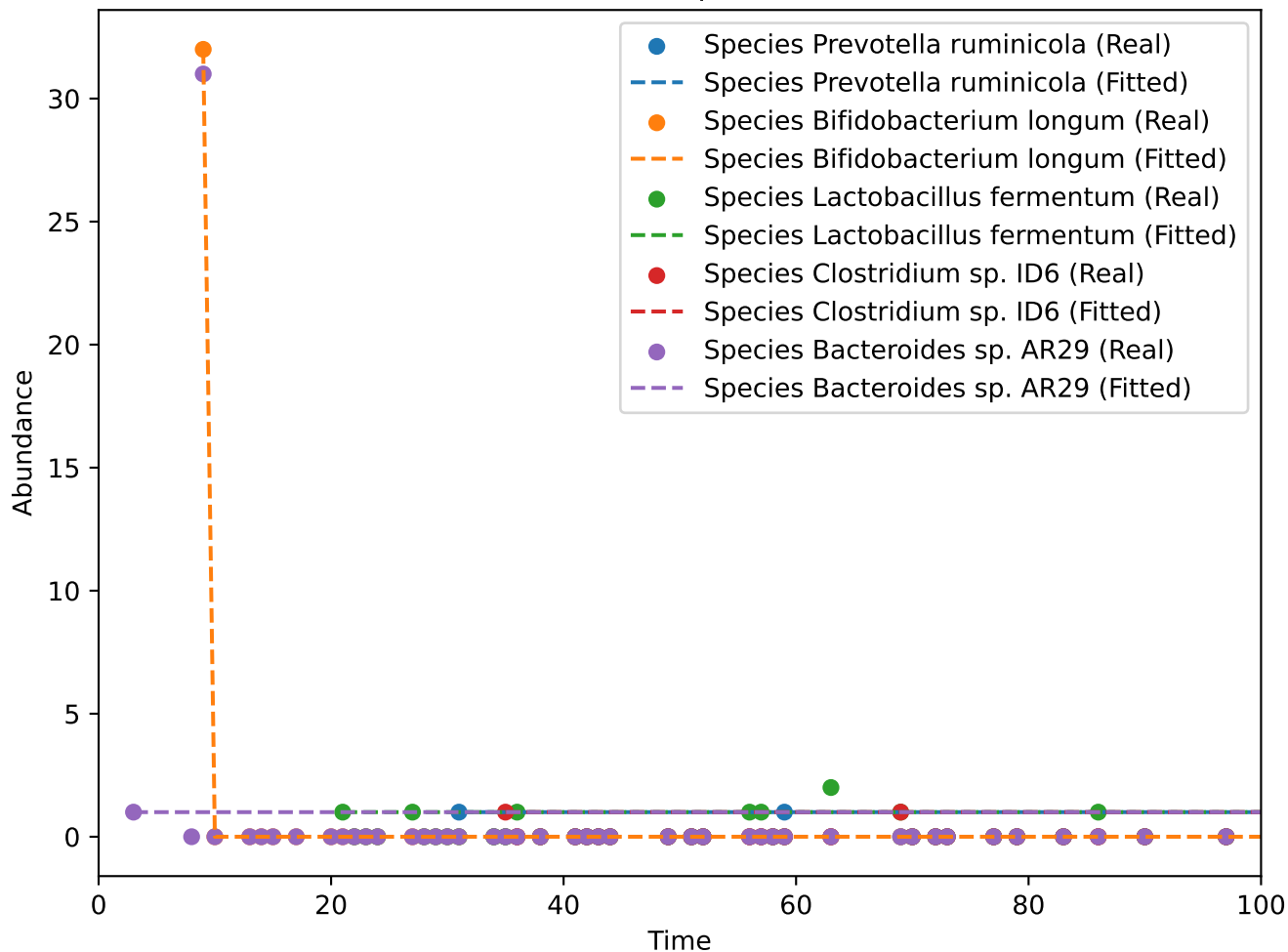


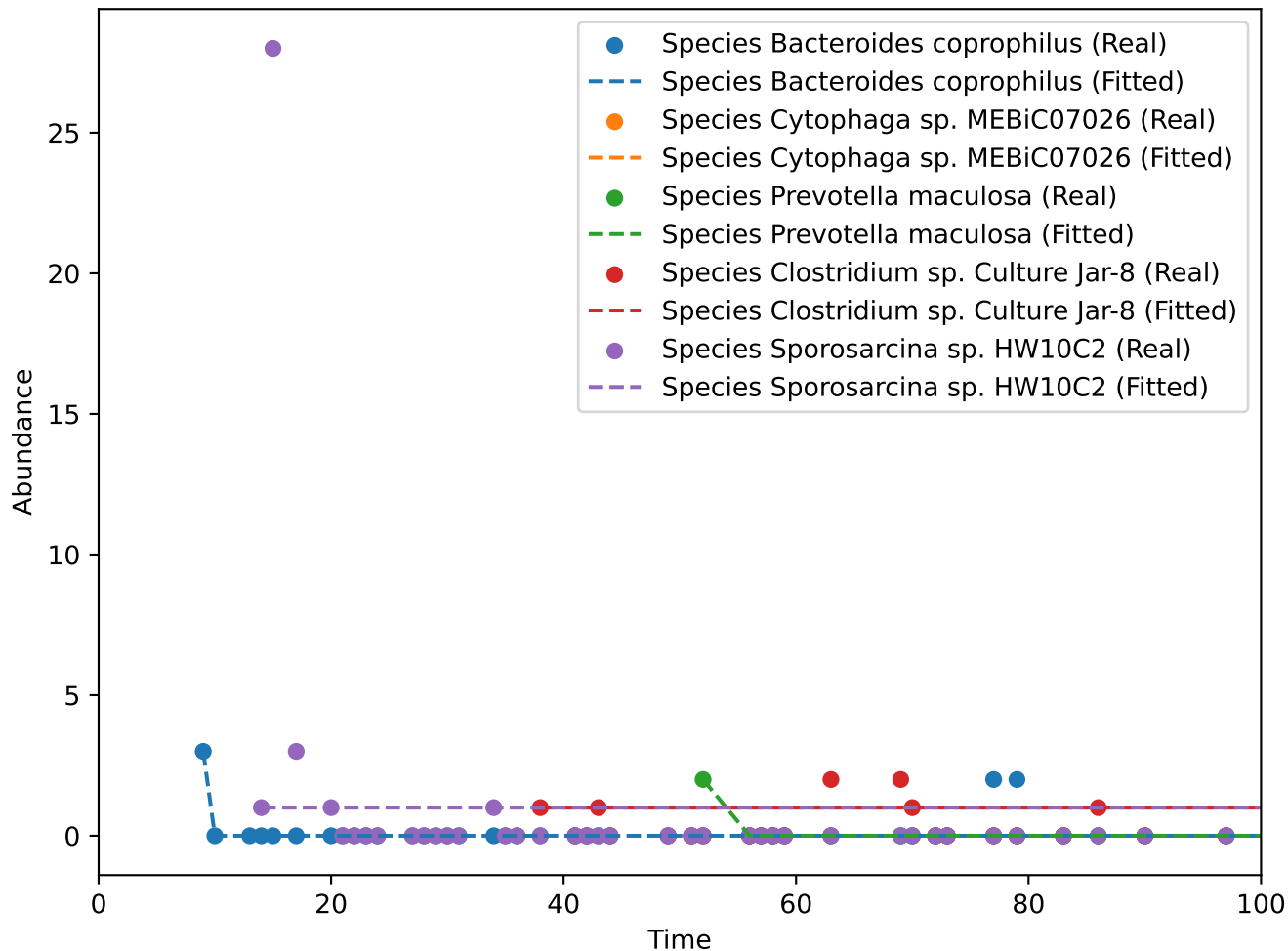
Mouse 3 - Species Fit





Mouse 3 - Species Fit



[illegible]

Species Eubacterium rectale (Real)

Species Eubacterium rectale (Fitted)

Species Coriobacterium sp. CCUG 33918 (Real)

Species Coriobacterium sp. CCUG 33918 (Fitted)

Species Lactobacillus rhamnosus (Real)

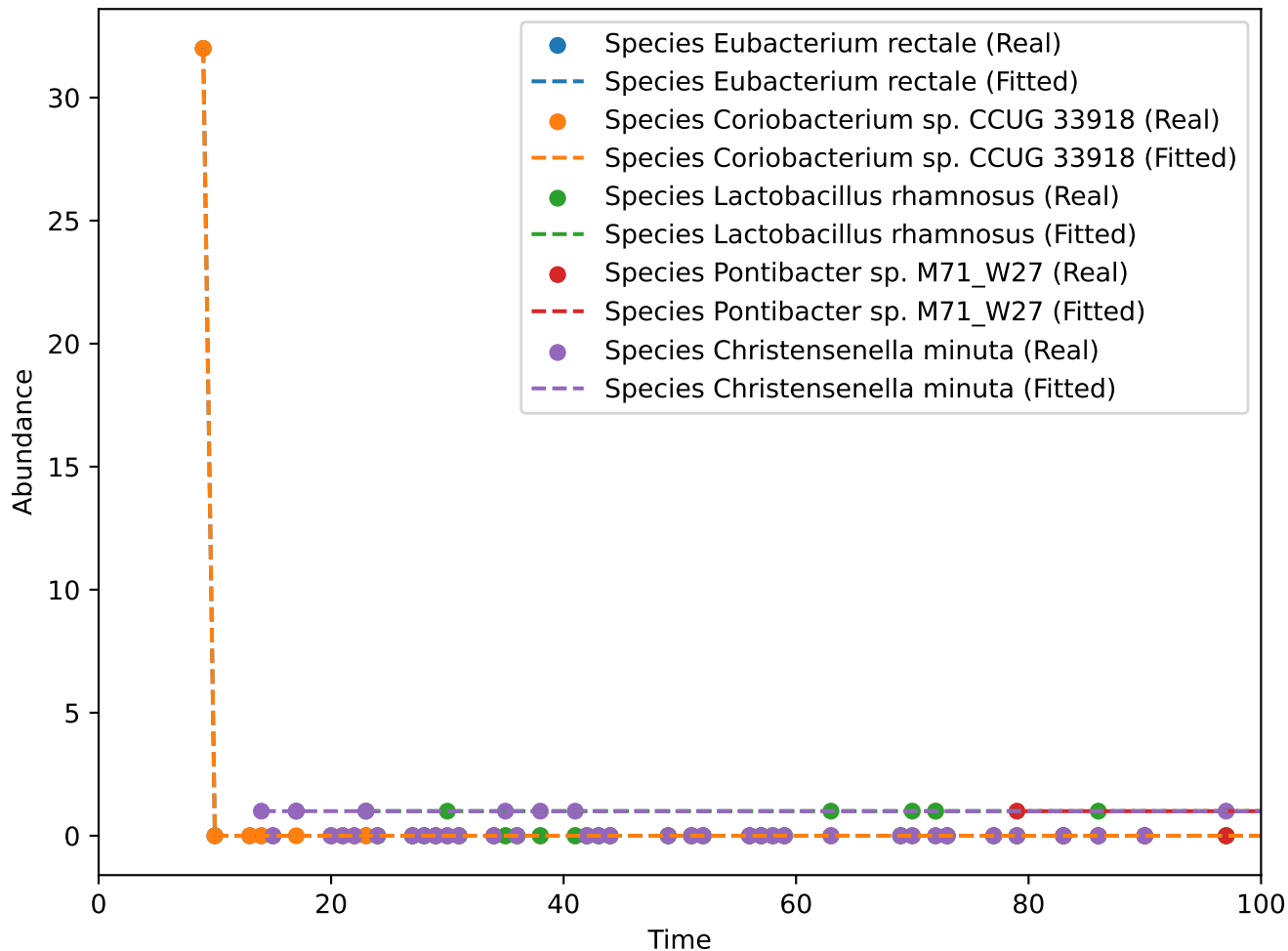
Species Lactobacillus rhamnosus (Fitted)

Species Pontibacter sp. M71\_W27 (Real)

Species Pontibacter sp. M71\_W27 (Fitted)

Species Christensenella minuta (Real)

Species Christensenella minuta (Fitted)



Species Roseburia inulinivorans (Real)

Species Roseburia inulinivorans (Fitted)

Species Bacillus halodurans (Real)

Species Bacillus halodurans (Fitted)

Species Eubacterium fissicatena (Real)

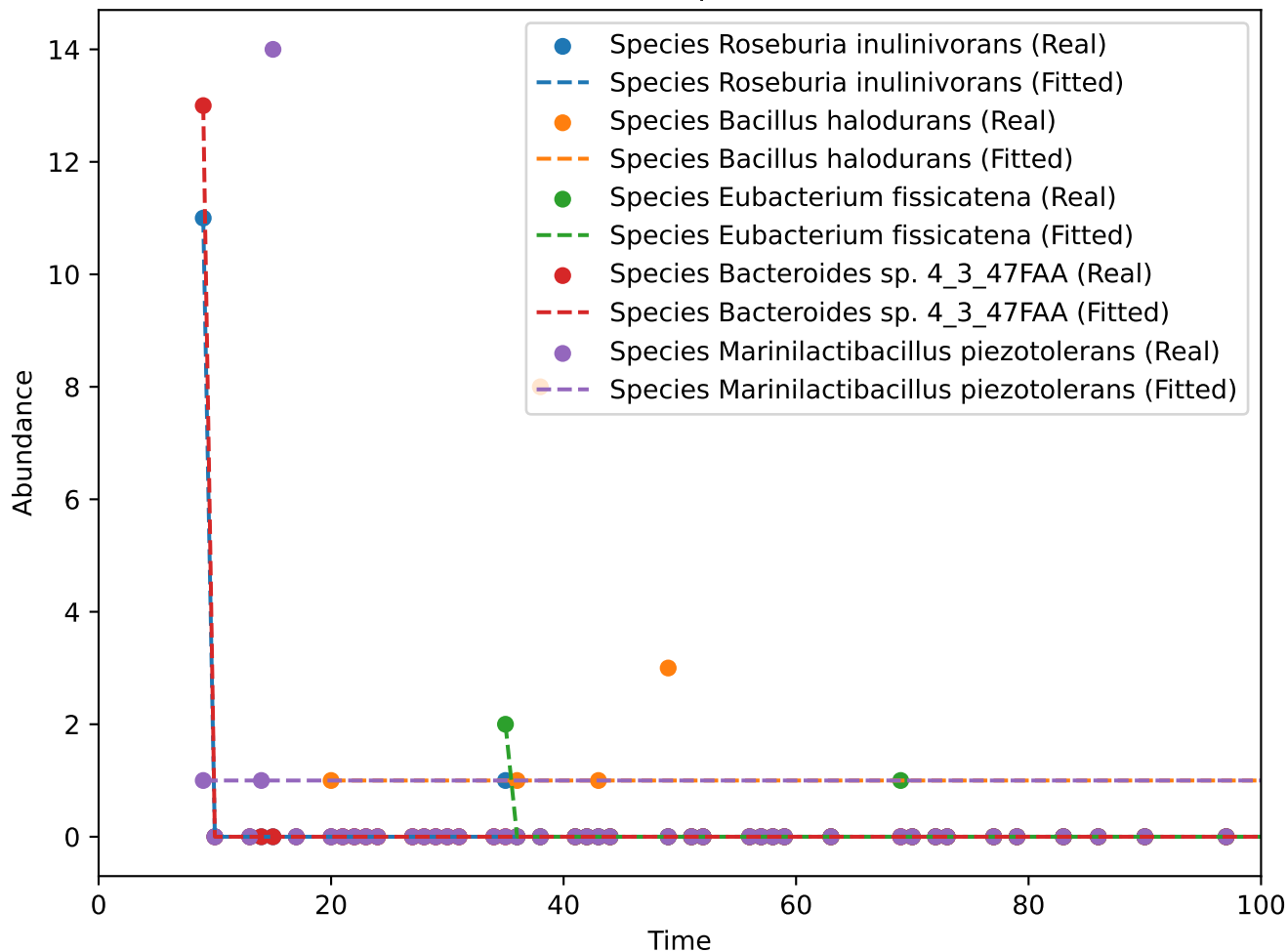
Species Eubacterium fissicatena (Fitted)

Species Bacteroides sp. 4\_3\_47FAA (Real)

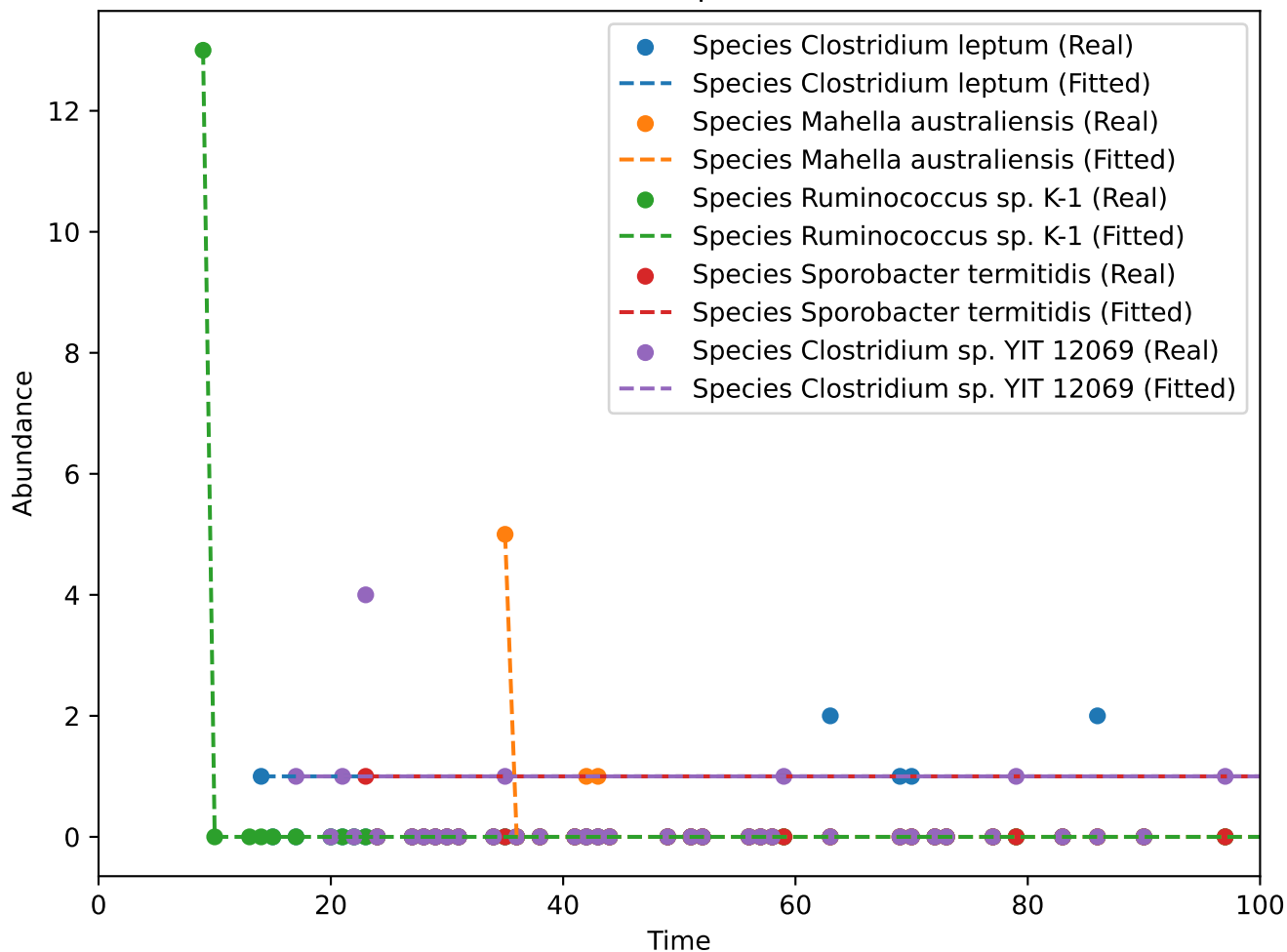
Species Bacteroides sp. 4\_3\_47FAA (Fitted)

Species Marinilactibacillus piezotolerans (Real)

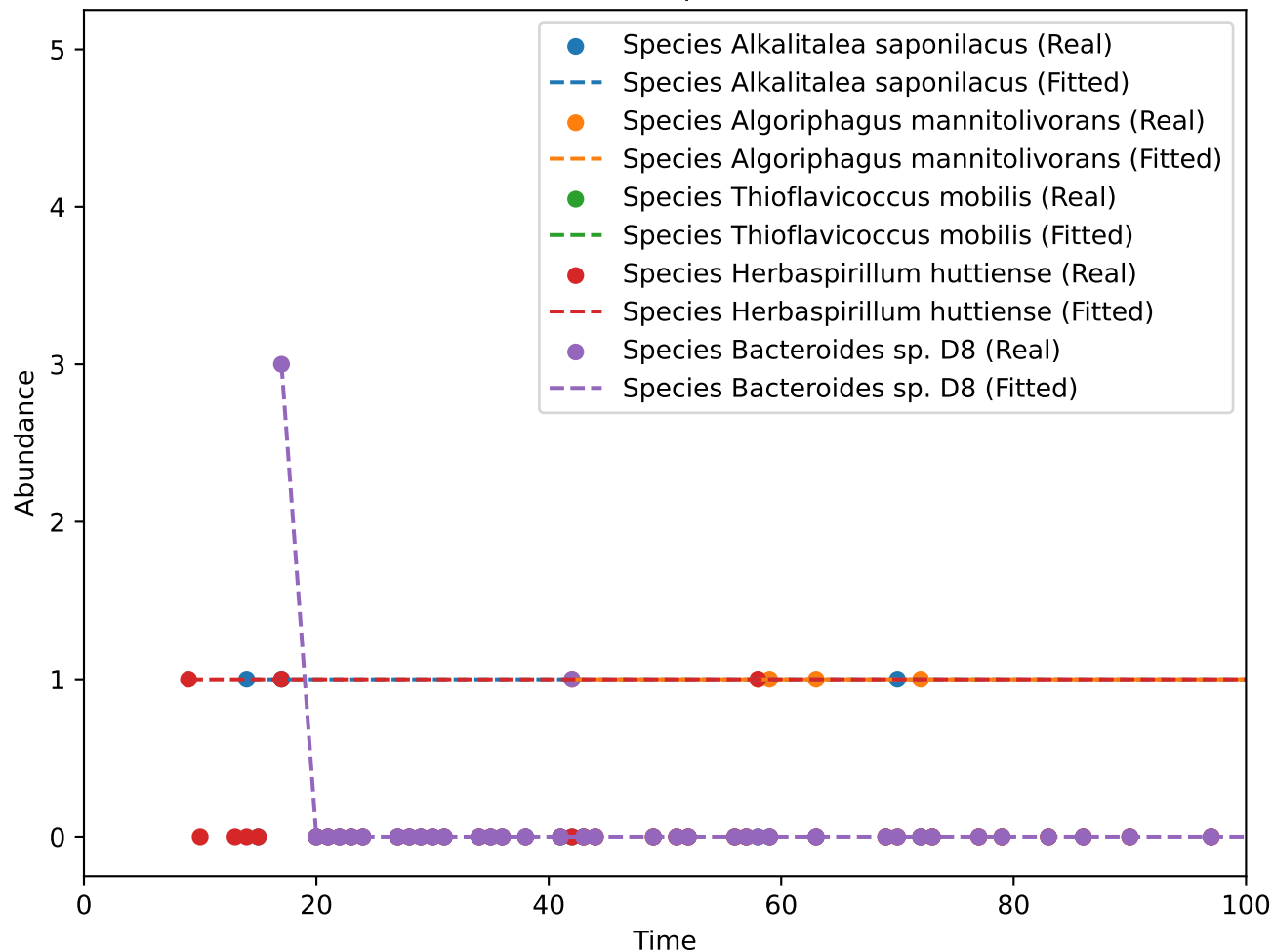
Species Marinilactibacillus piezotolerans (Fitted)



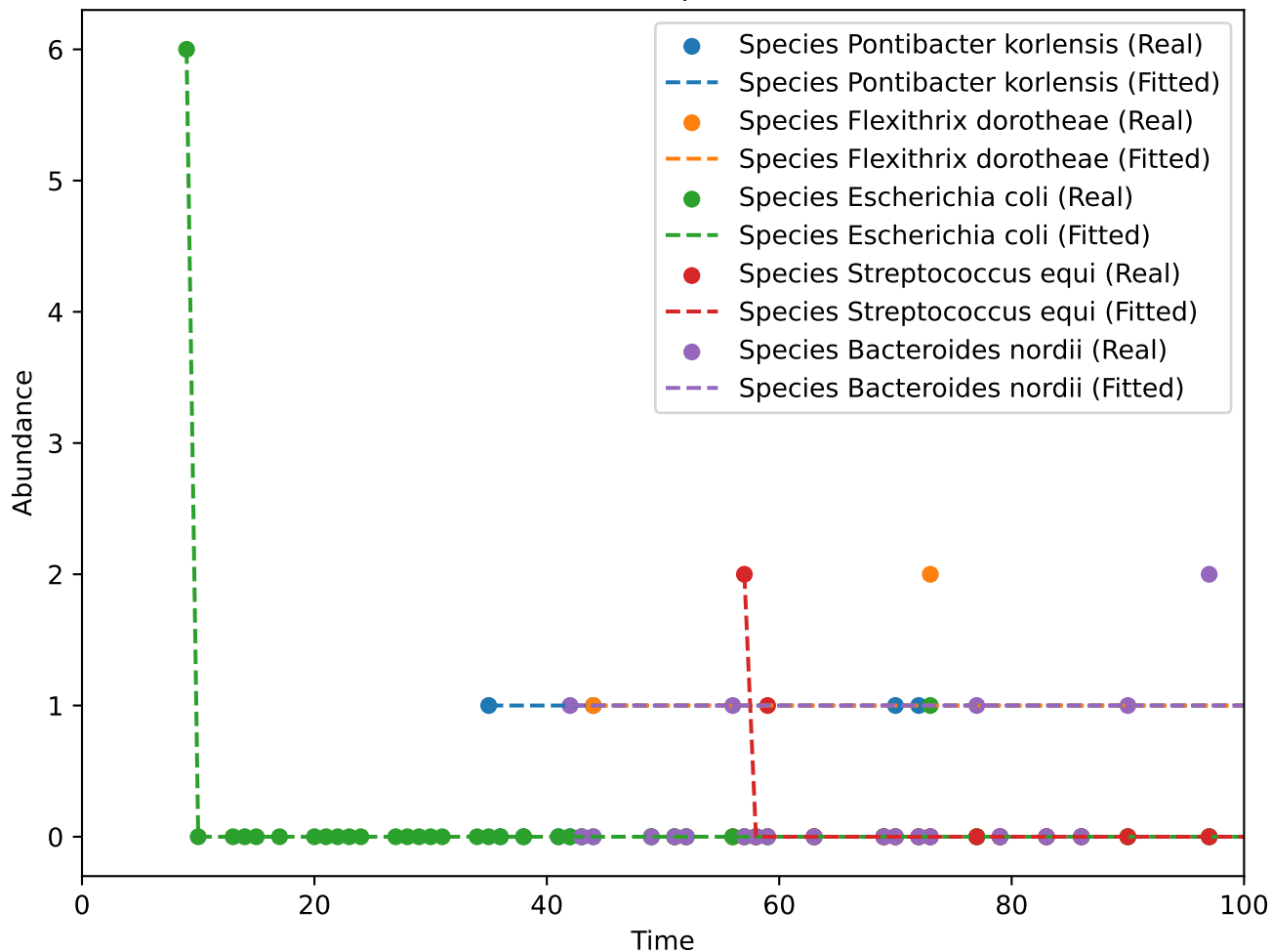
Mouse 3 - Species Fit



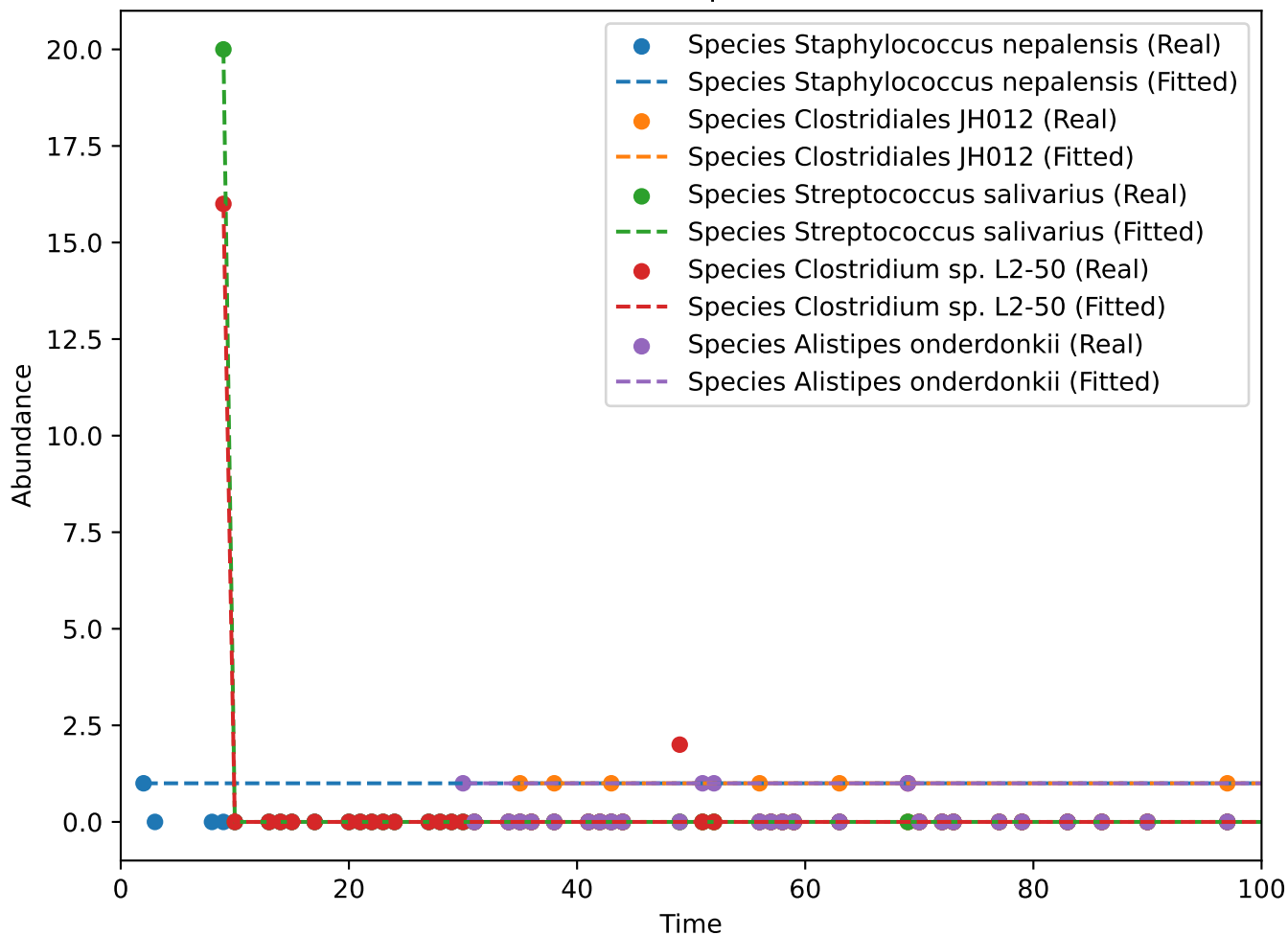
Mouse 3 - Species Fit



Mouse 3 - Species Fit

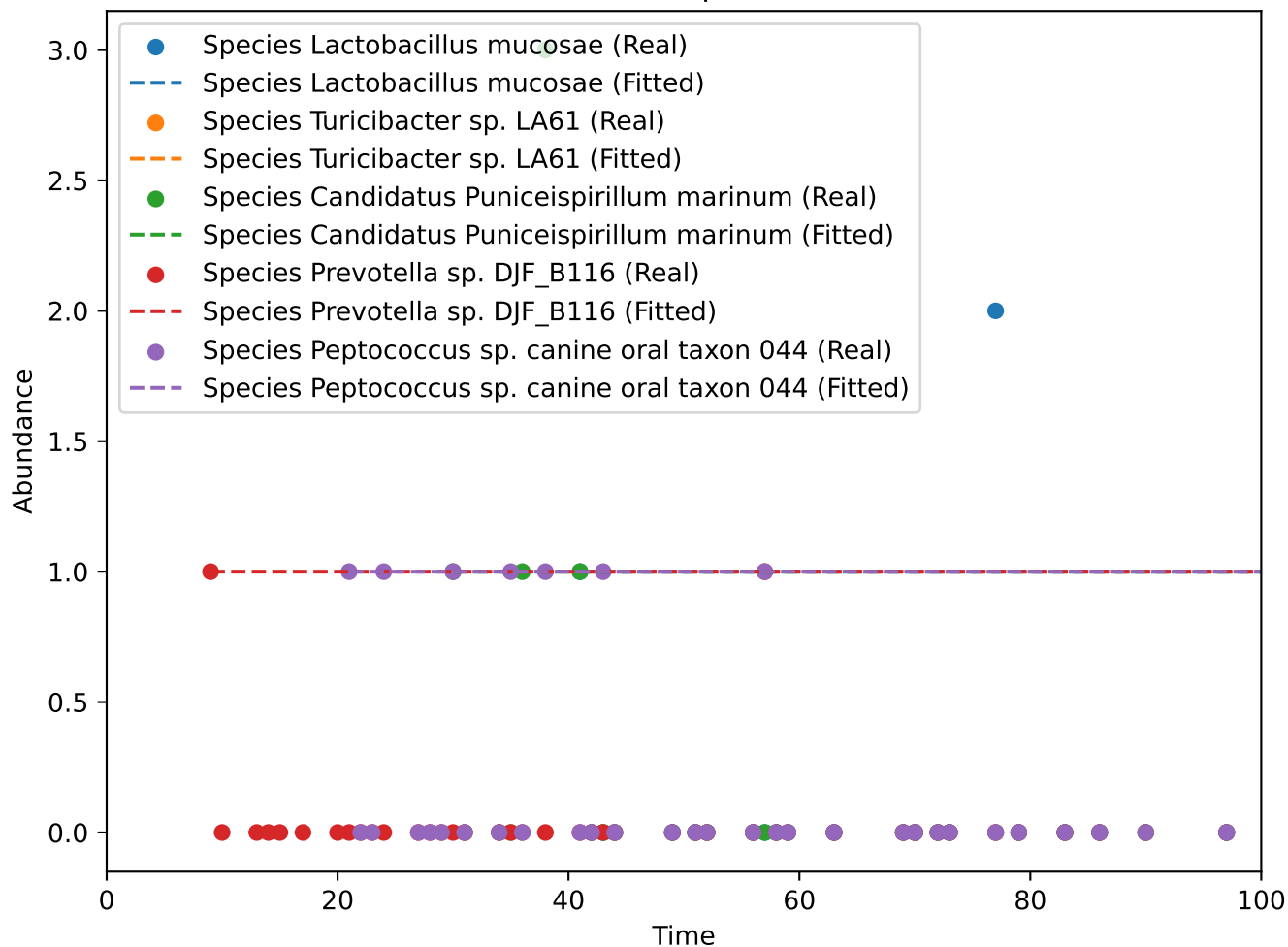


# Mouse 3 - Species Fit





# Mouse 3 - Species Fit



### Mouse 3 - Species Fit

