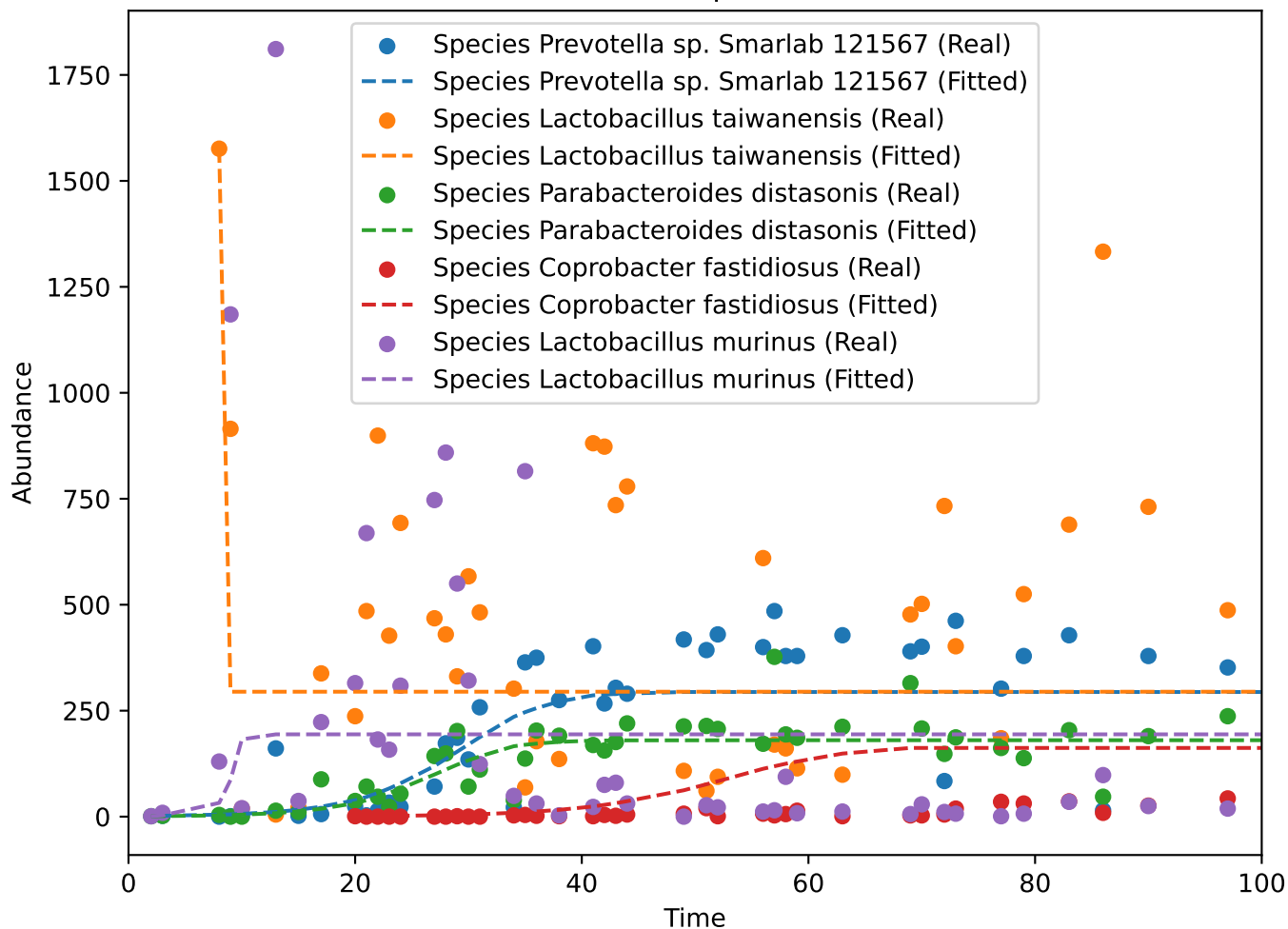
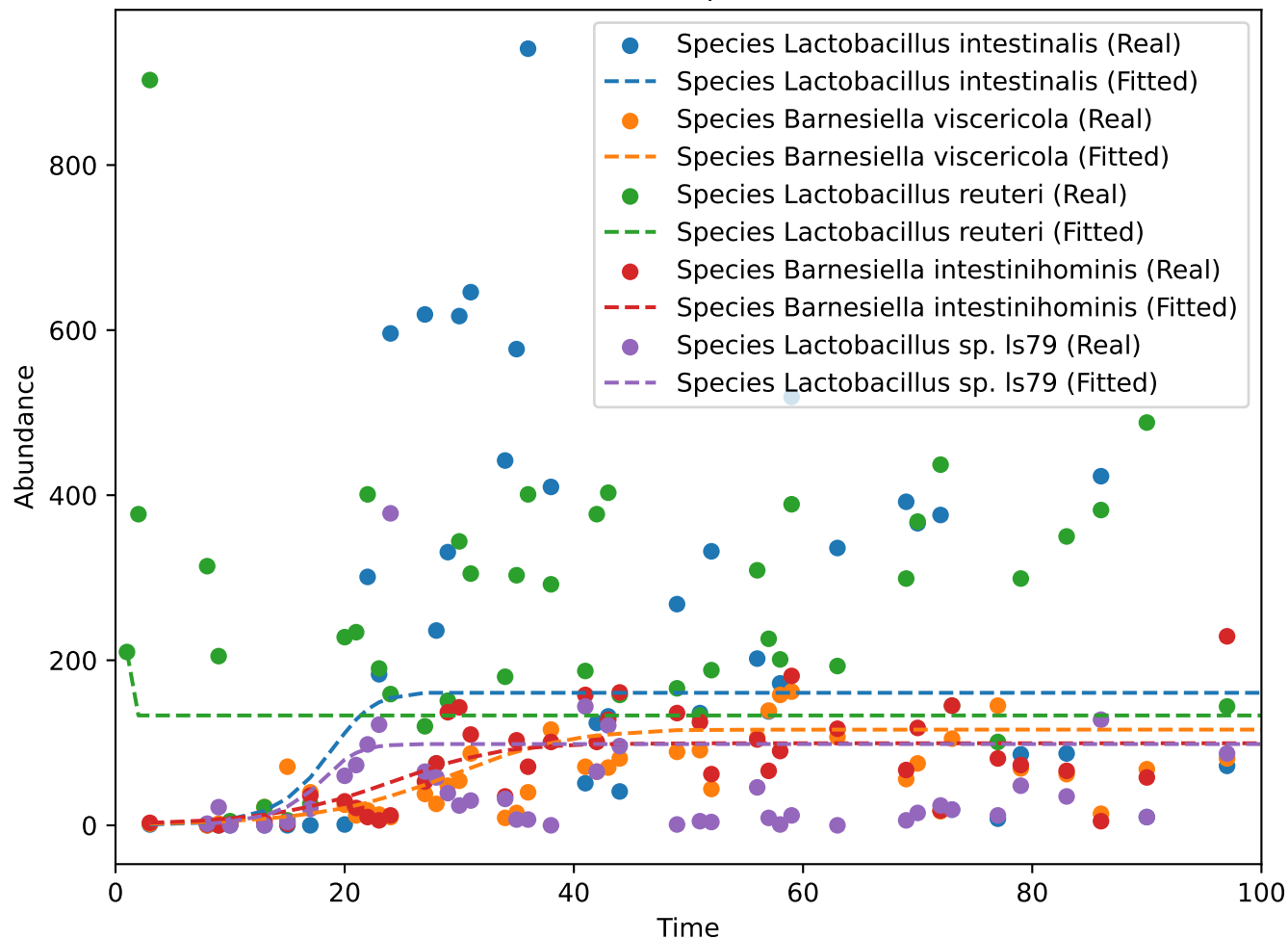


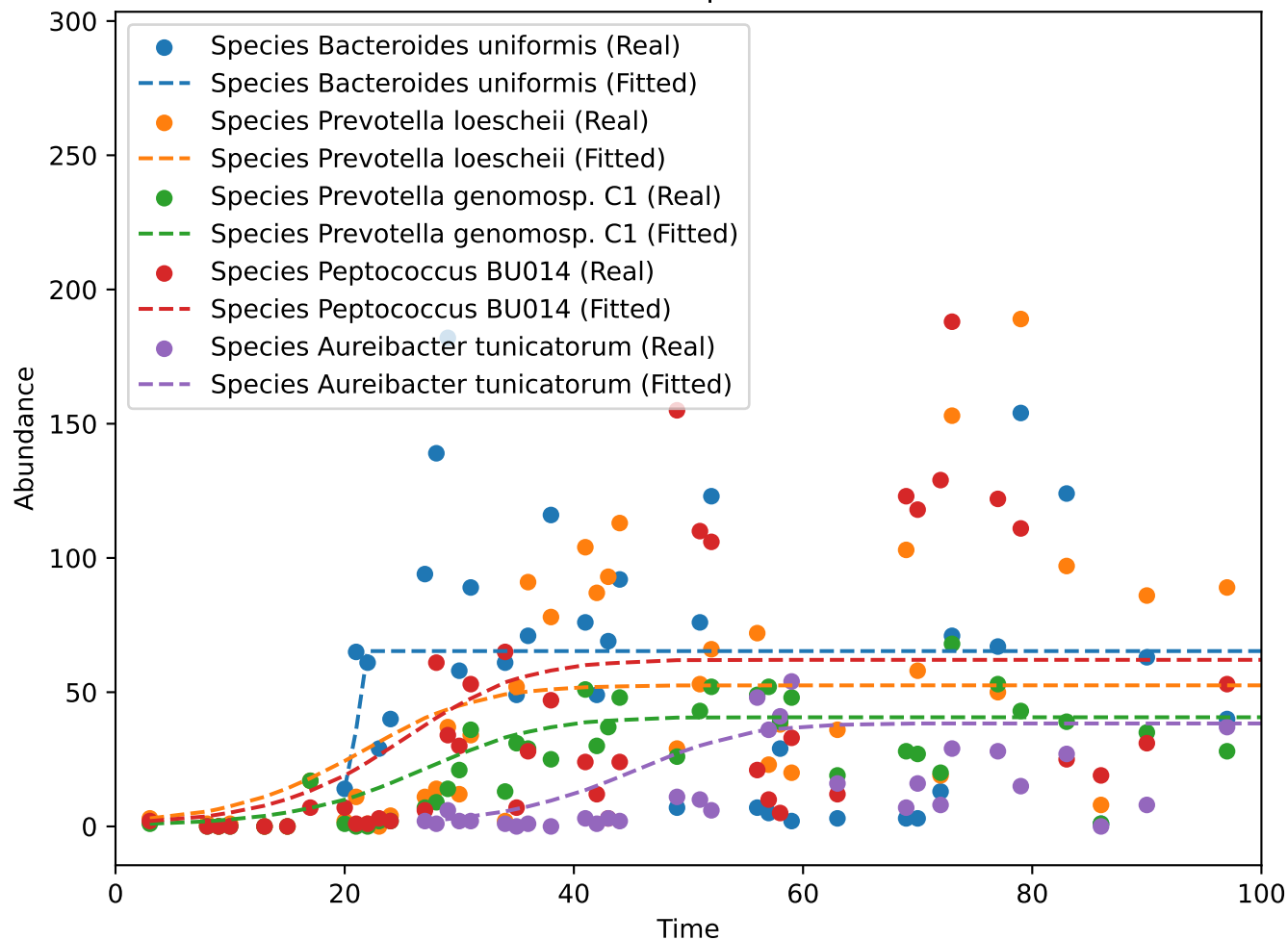
Mouse 5 - Species Fit



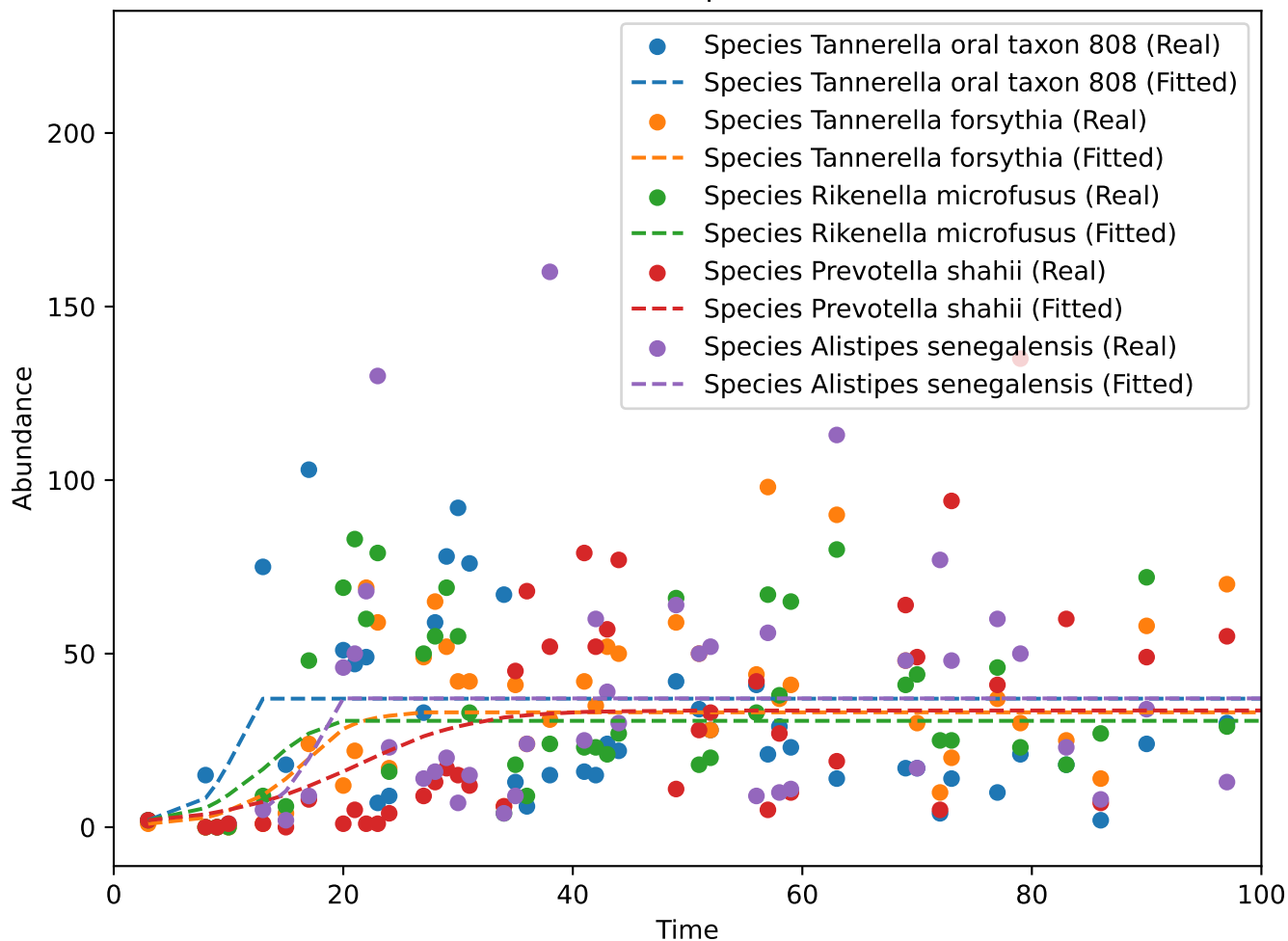
Mouse 5 - Species Fit



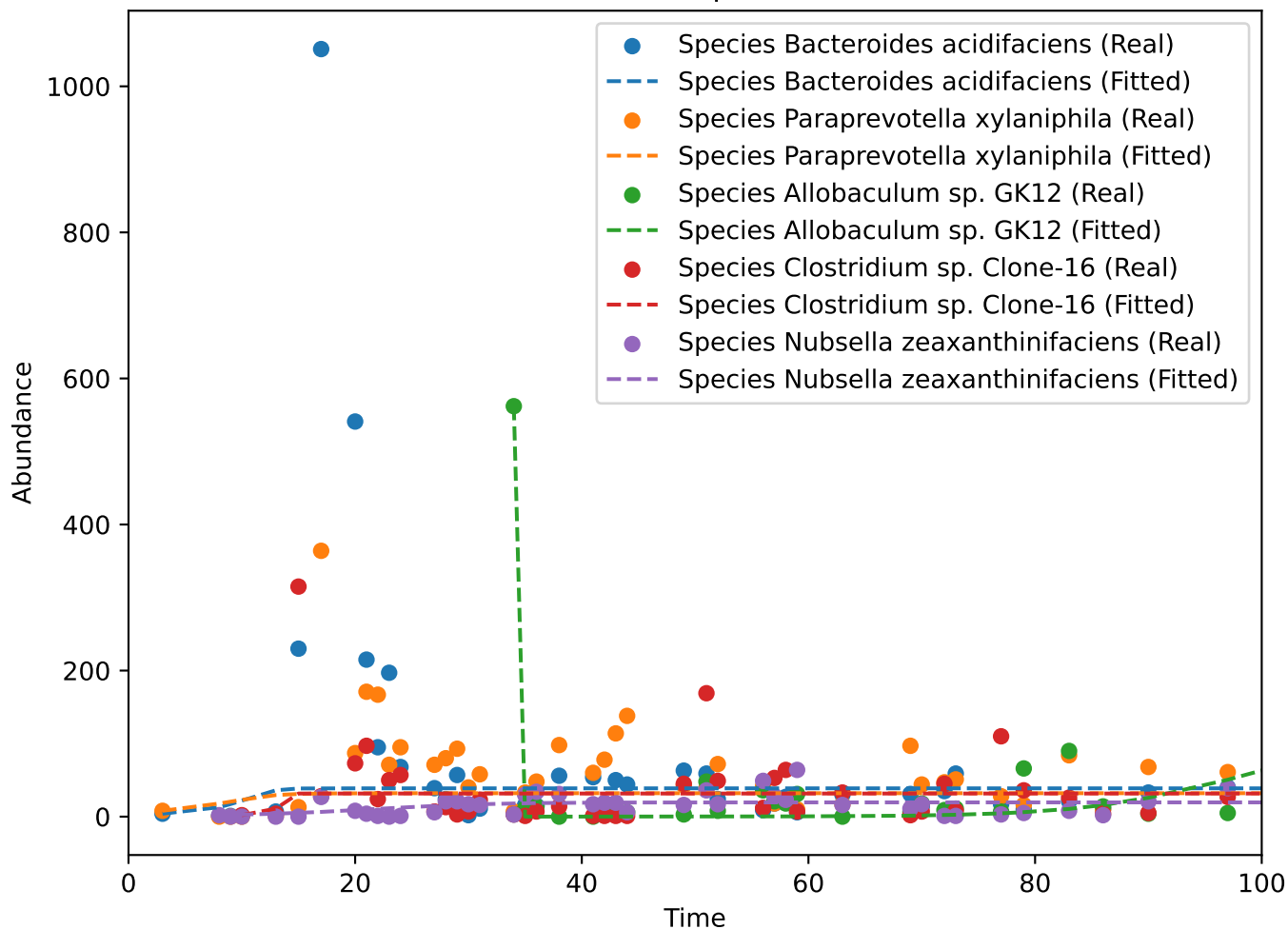
Mouse 5 - Species Fit



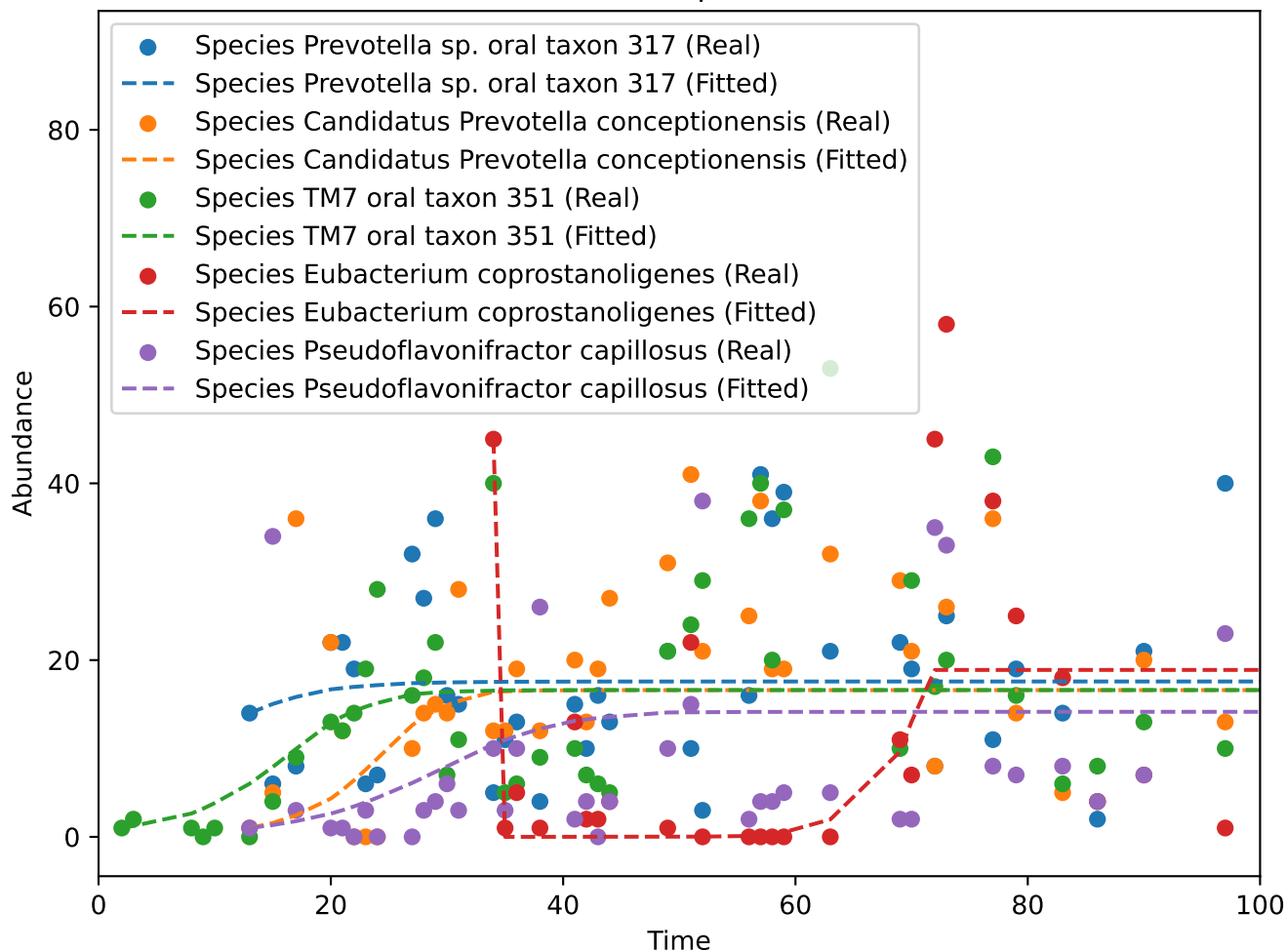
Mouse 5 - Species Fit



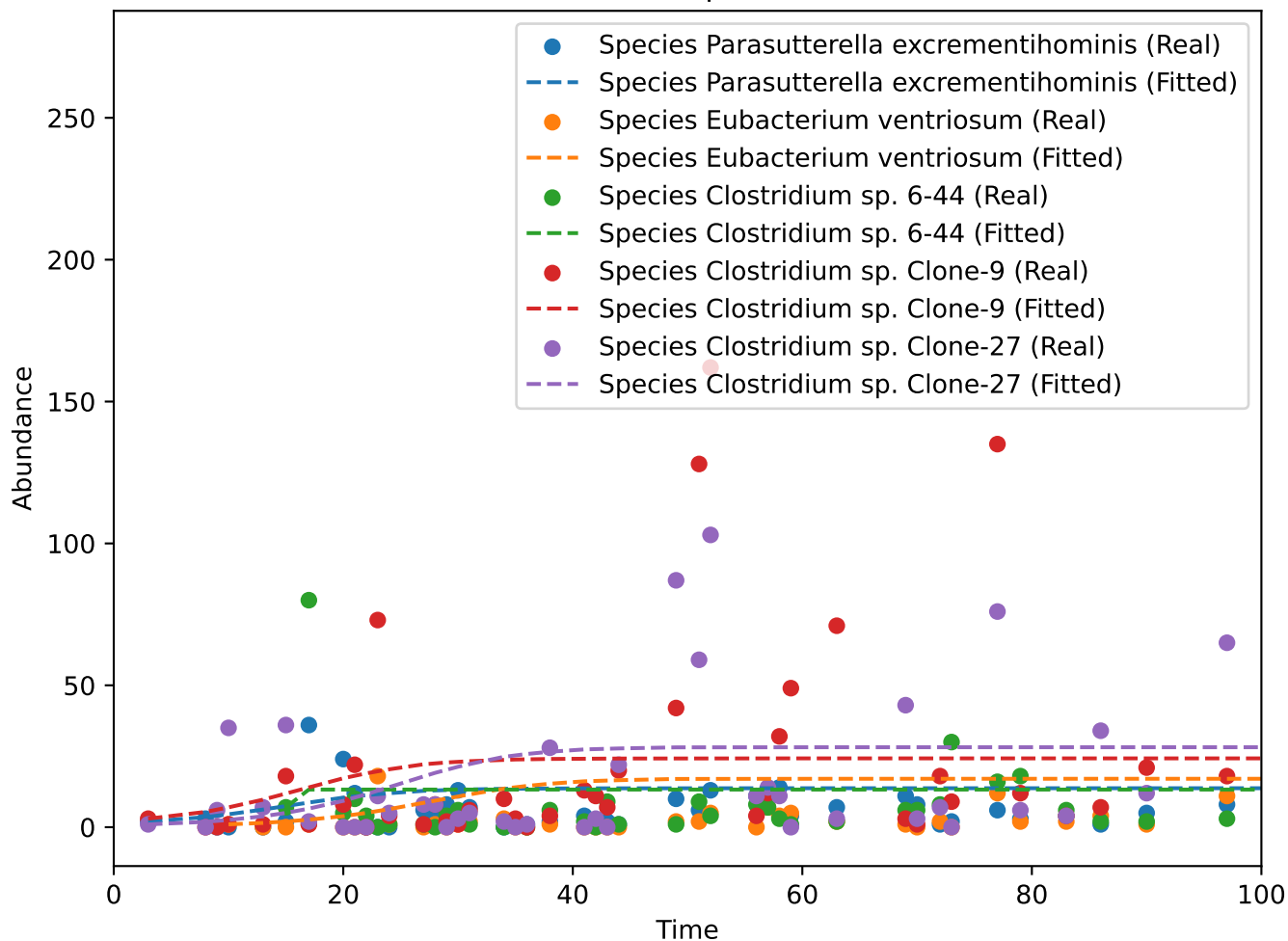
Mouse 5 - Species Fit



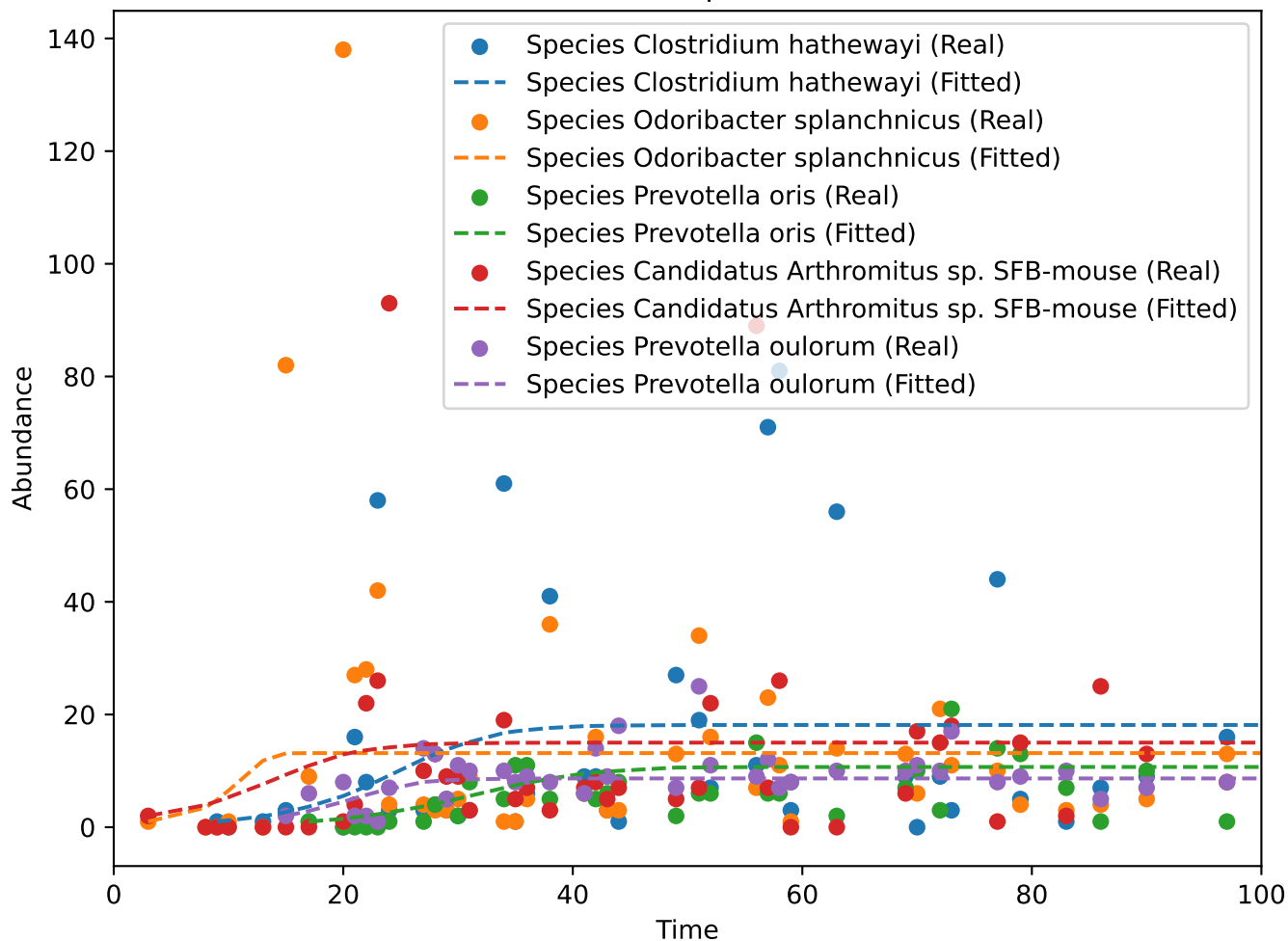
Mouse 5 - Species Fit



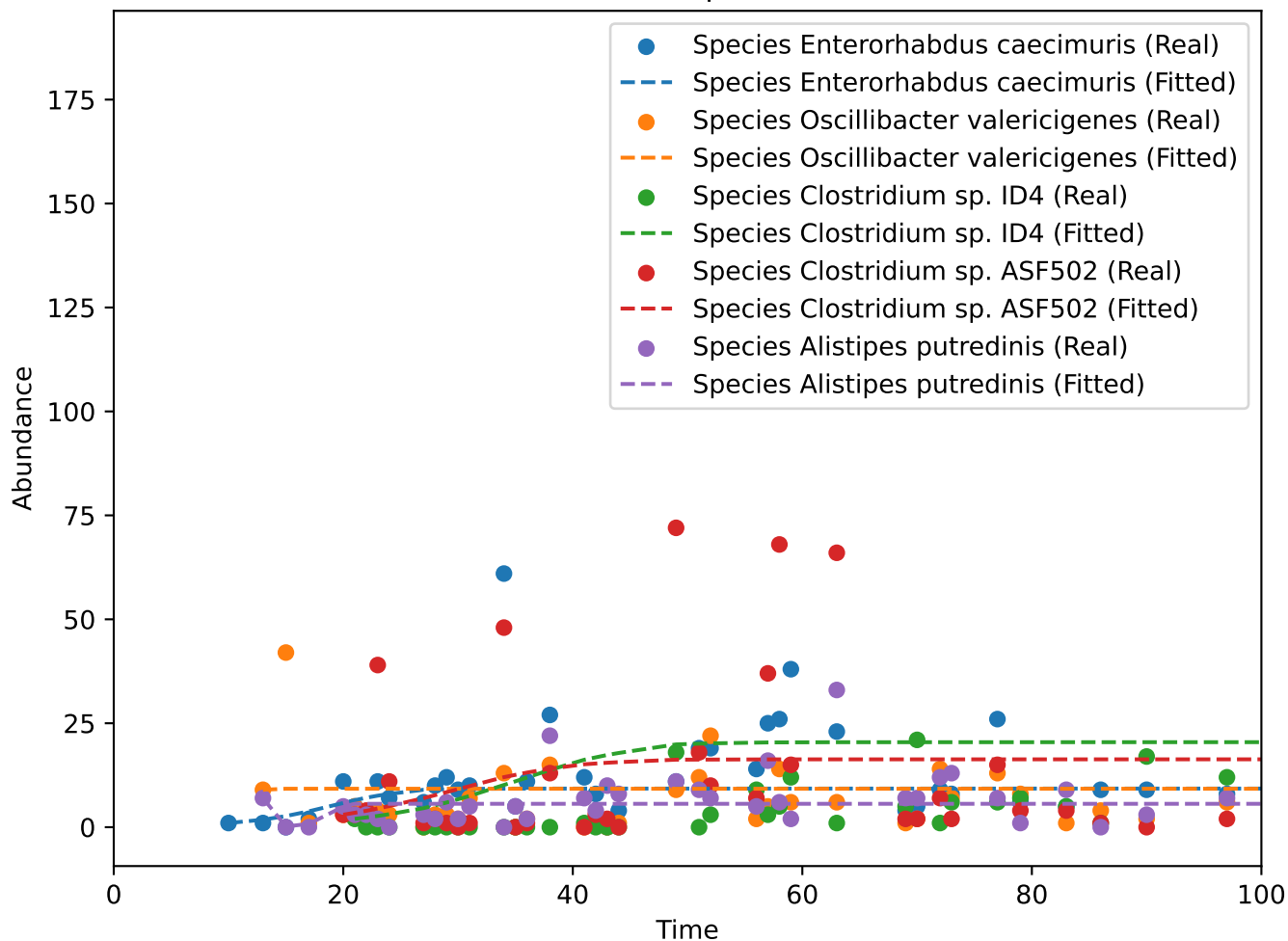
Mouse 5 - Species Fit



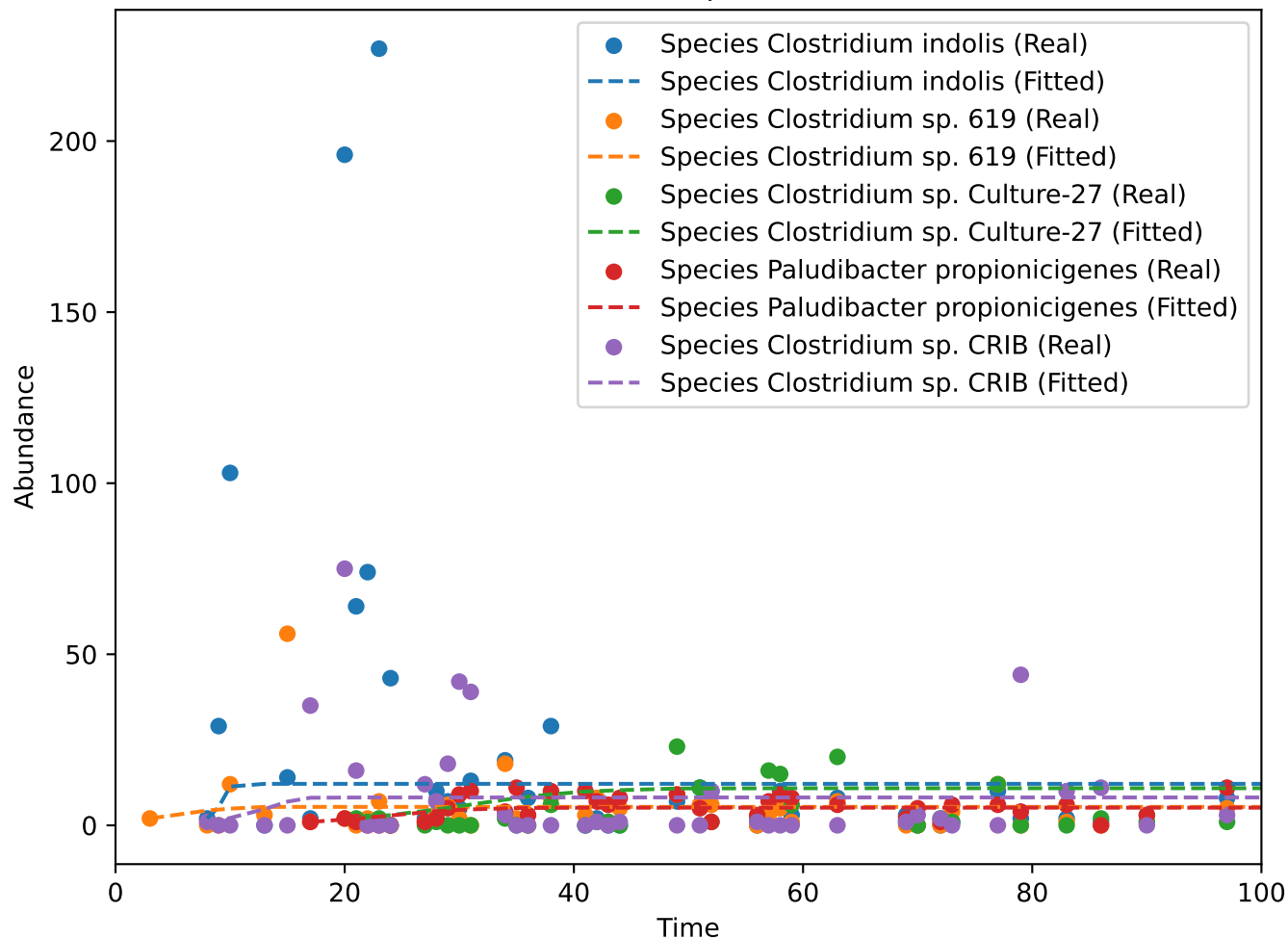
Mouse 5 - Species Fit



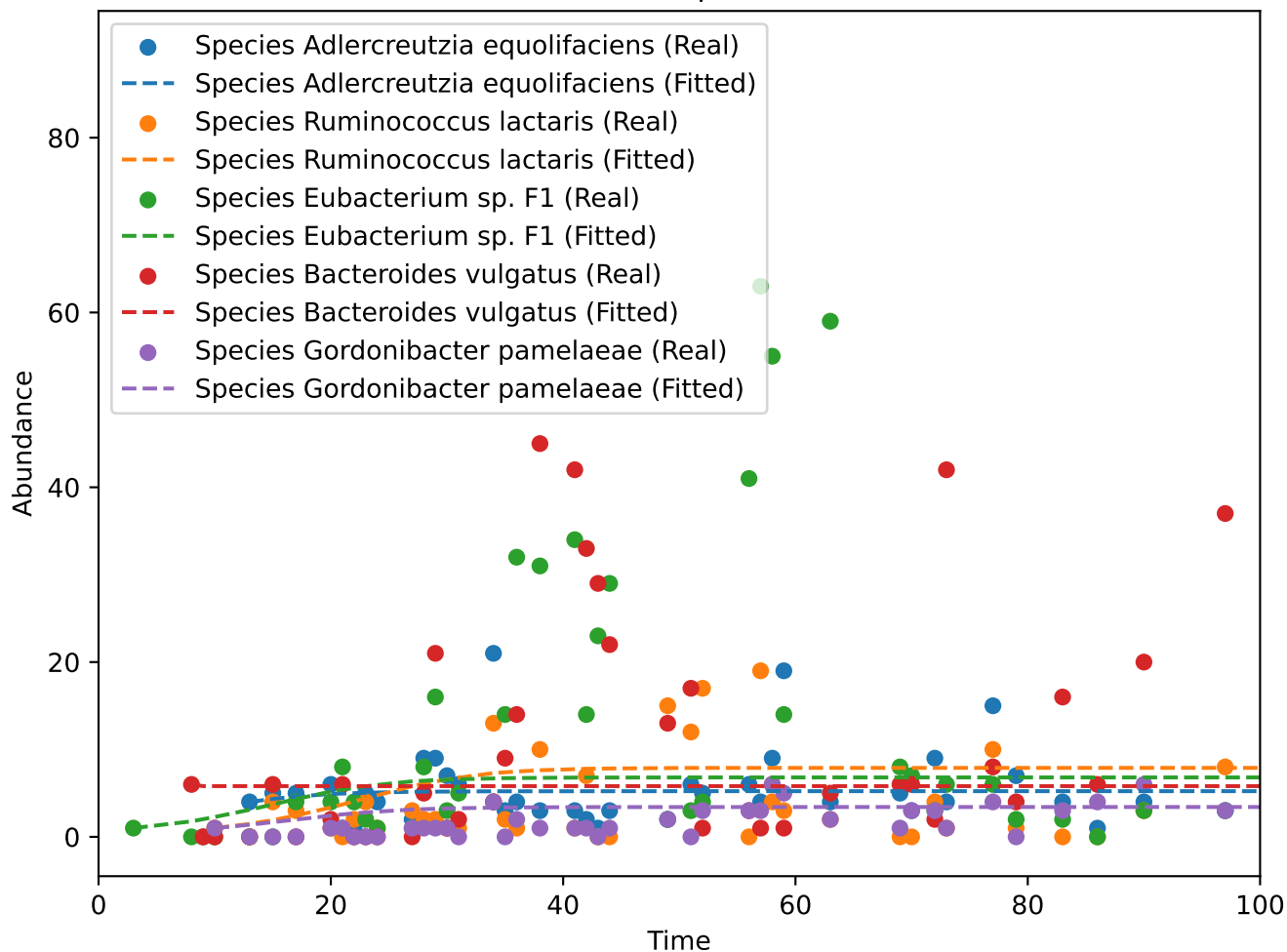
Mouse 5 - Species Fit



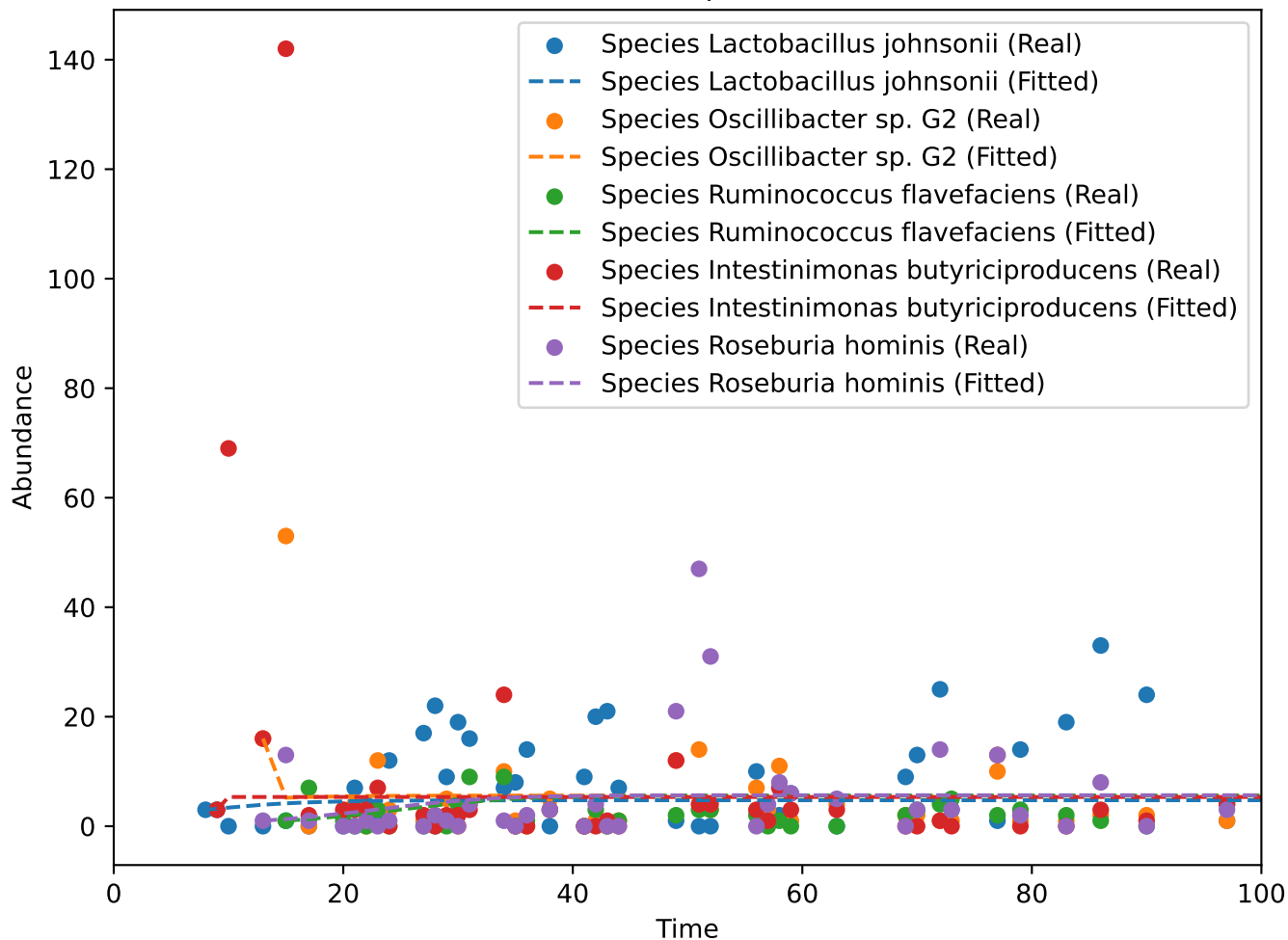
Mouse 5 - Species Fit



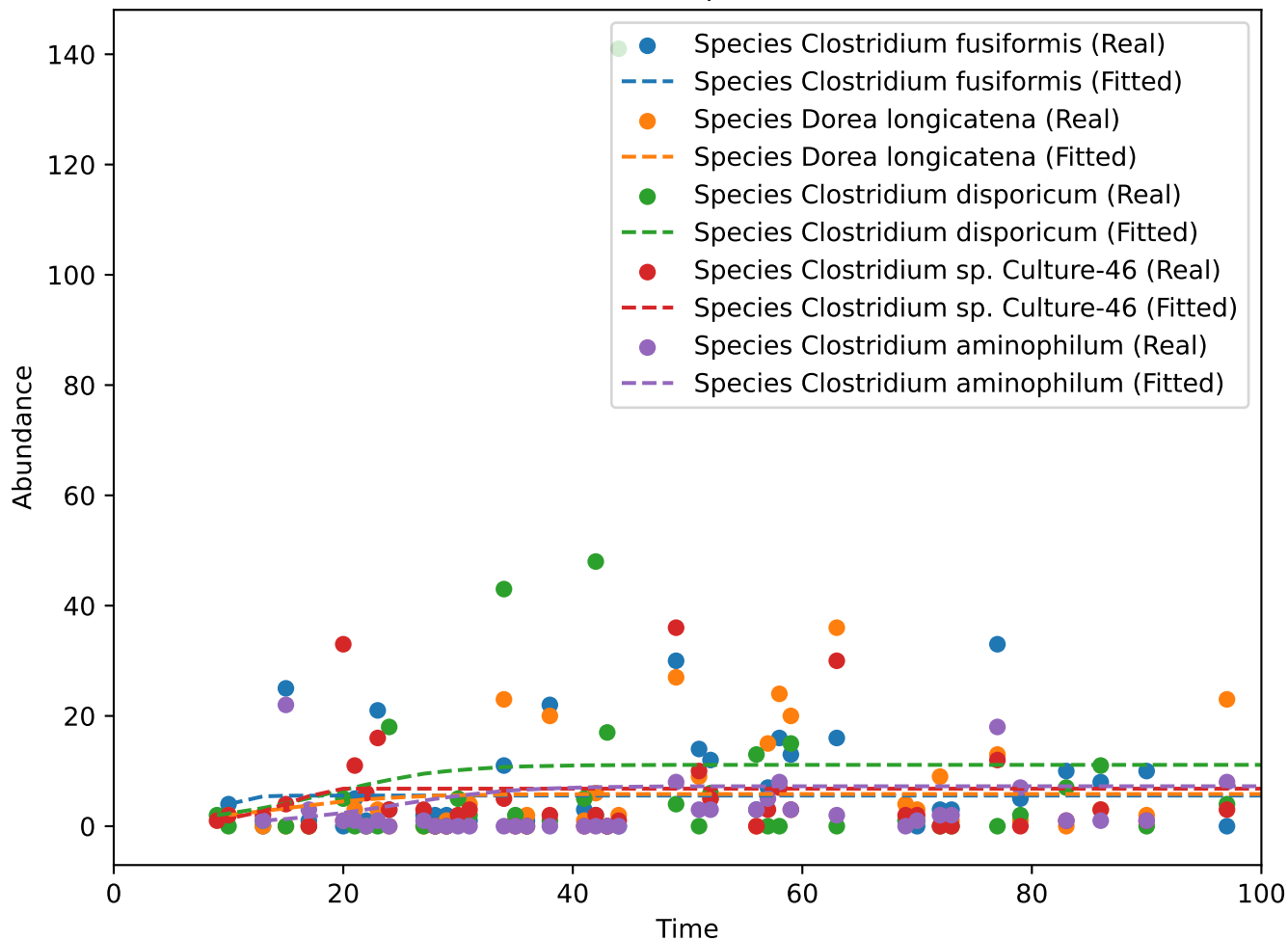
Mouse 5 - Species Fit



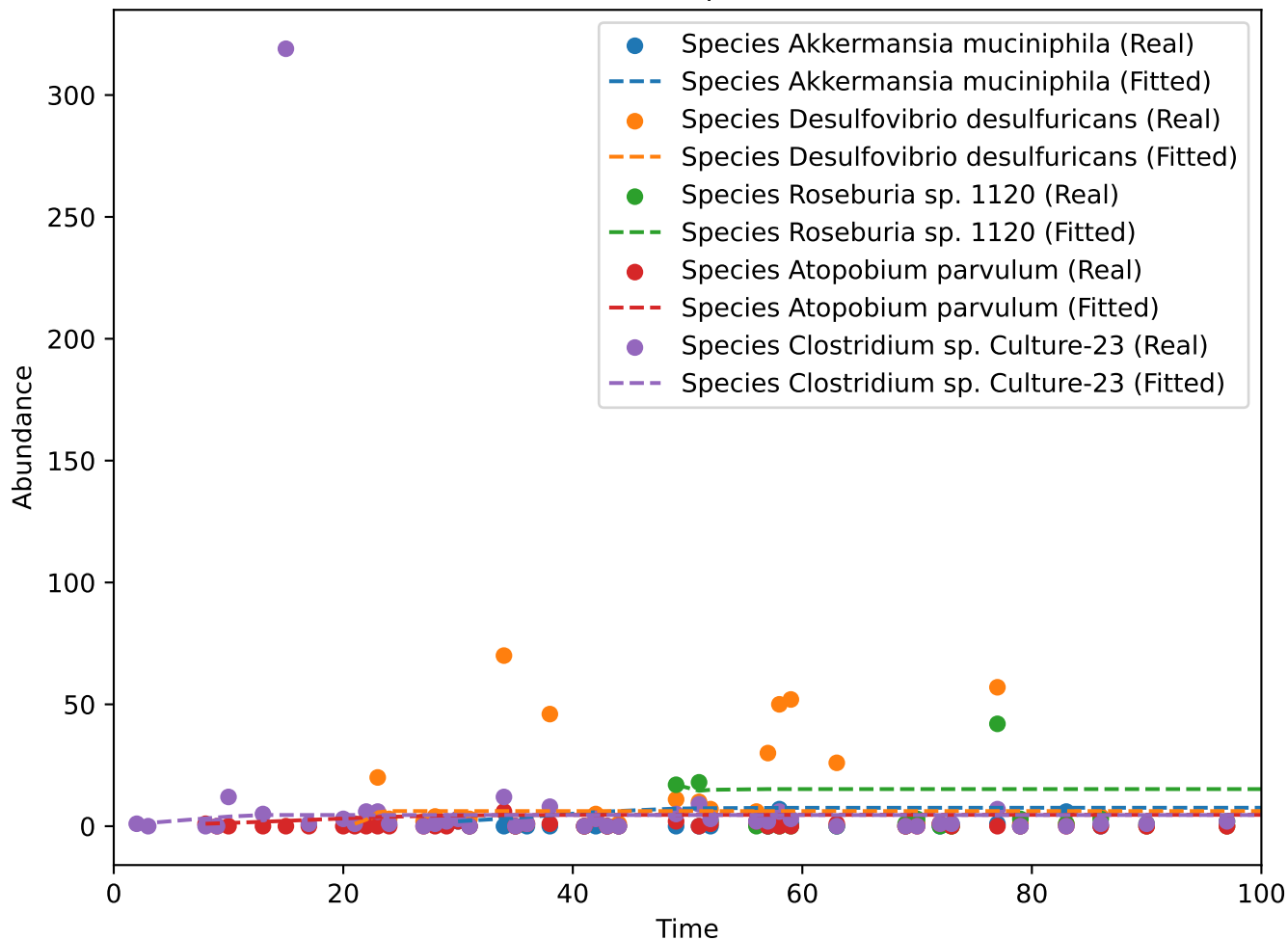
Mouse 5 - Species Fit



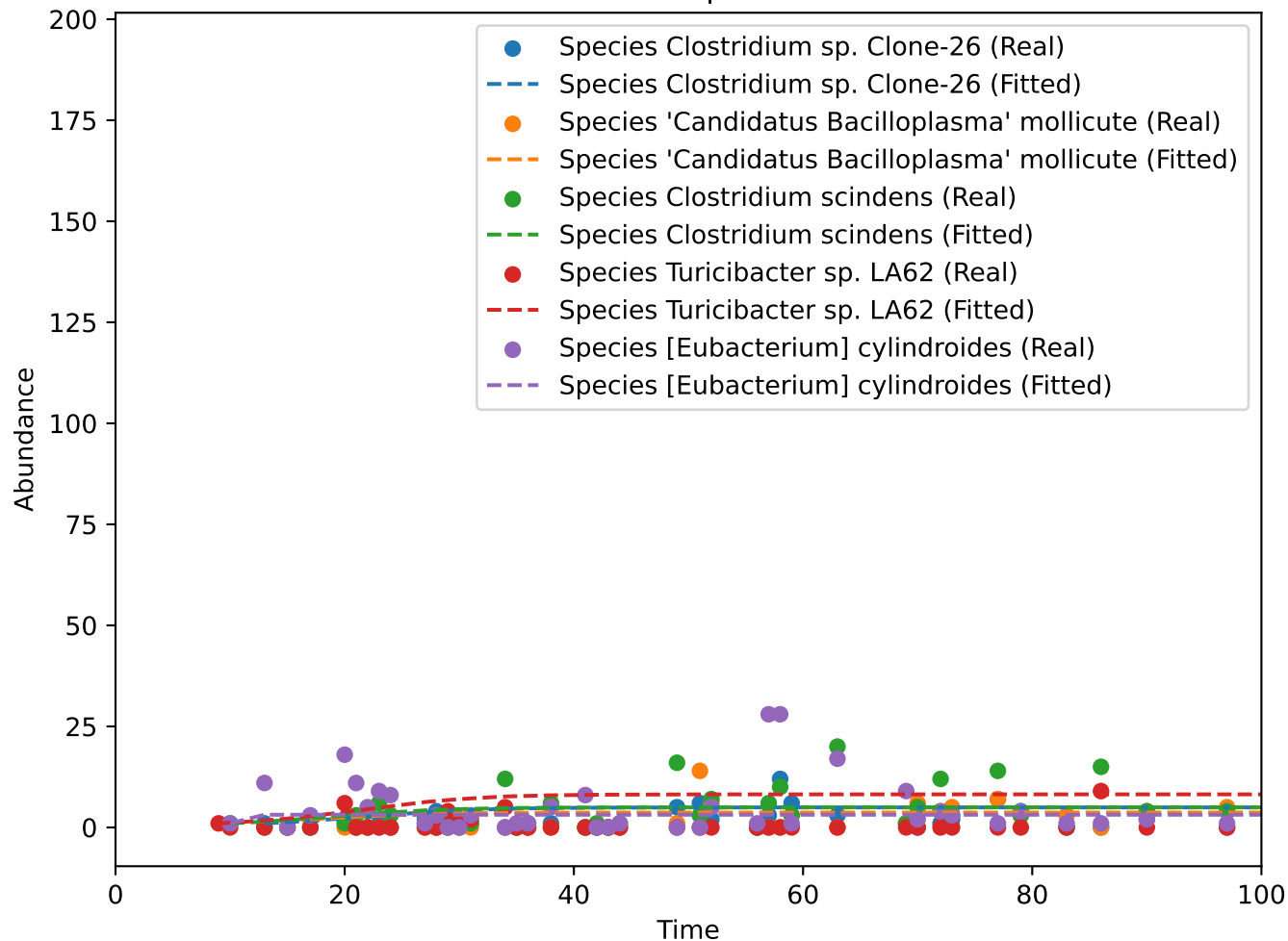
Mouse 5 - Species Fit



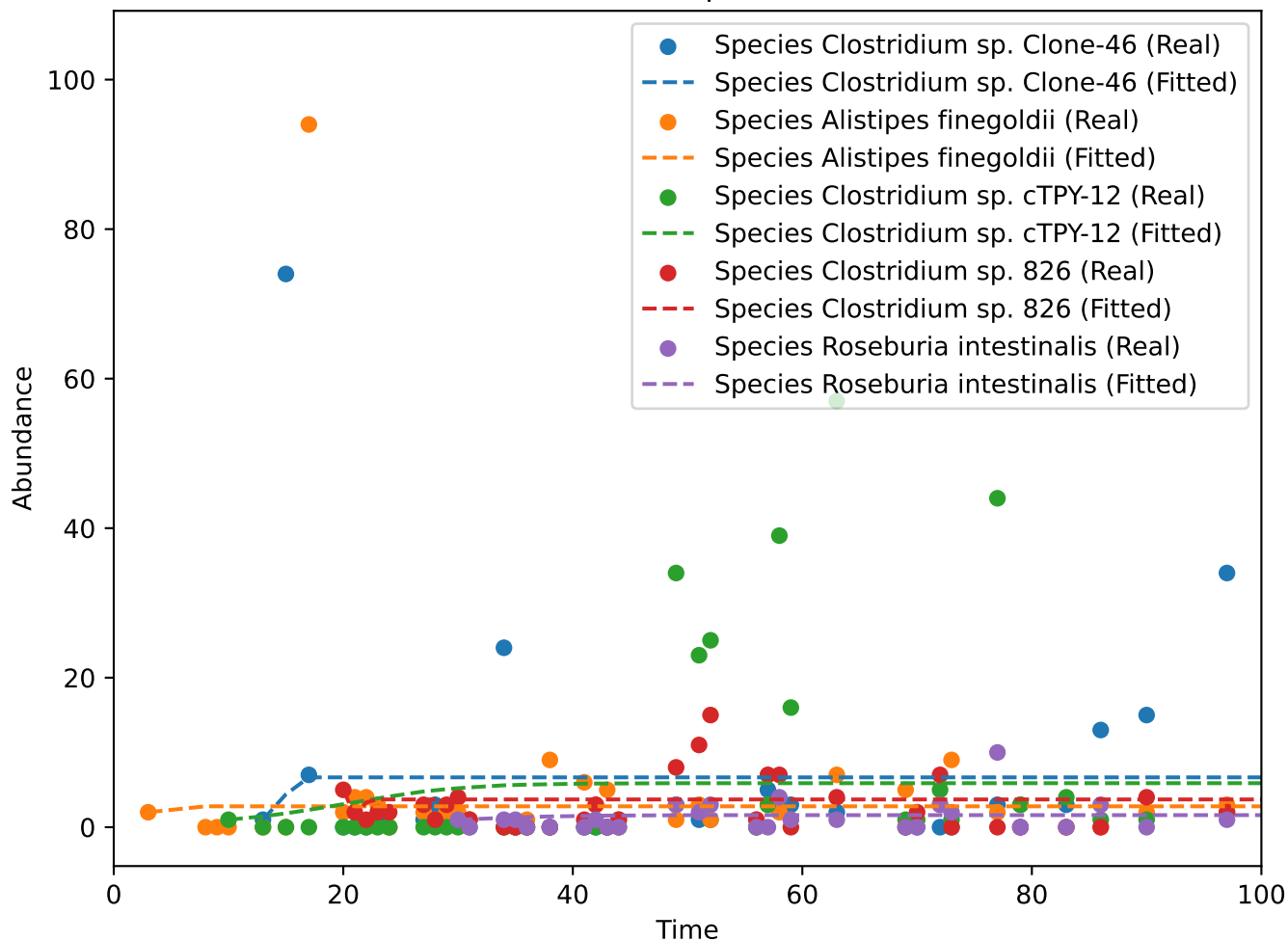
Mouse 5 - Species Fit



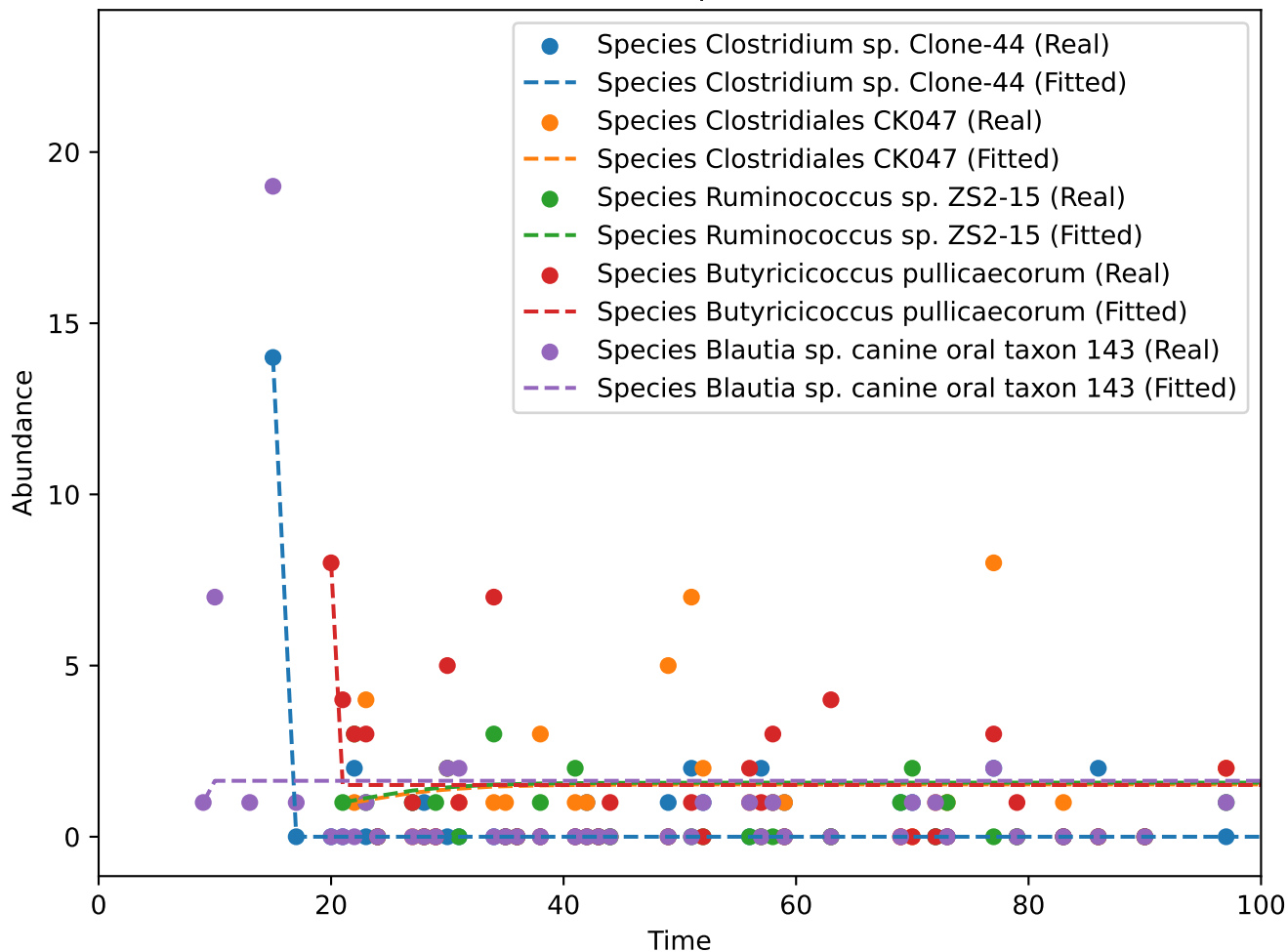
Mouse 5 - Species Fit



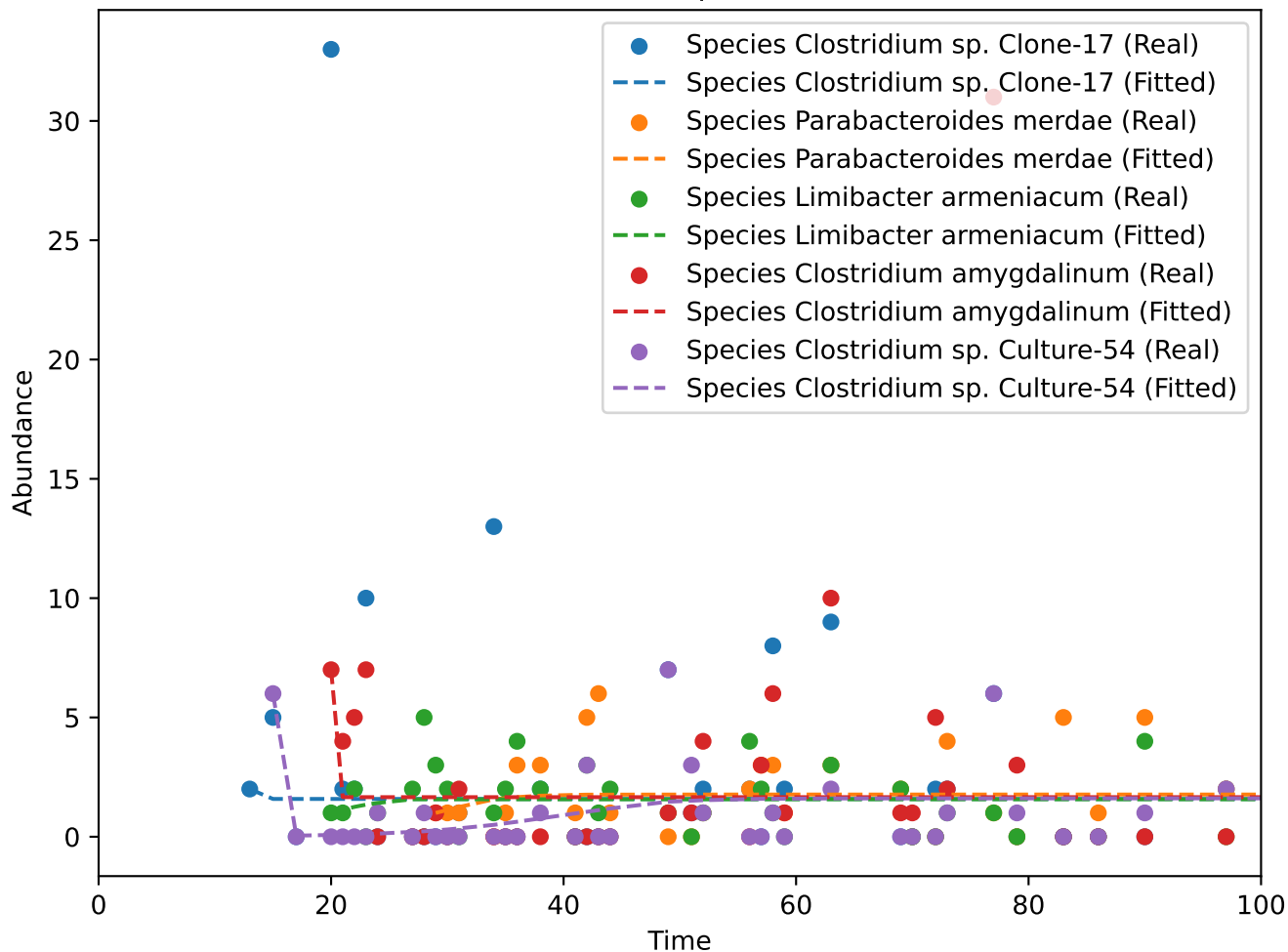
Mouse 5 - Species Fit



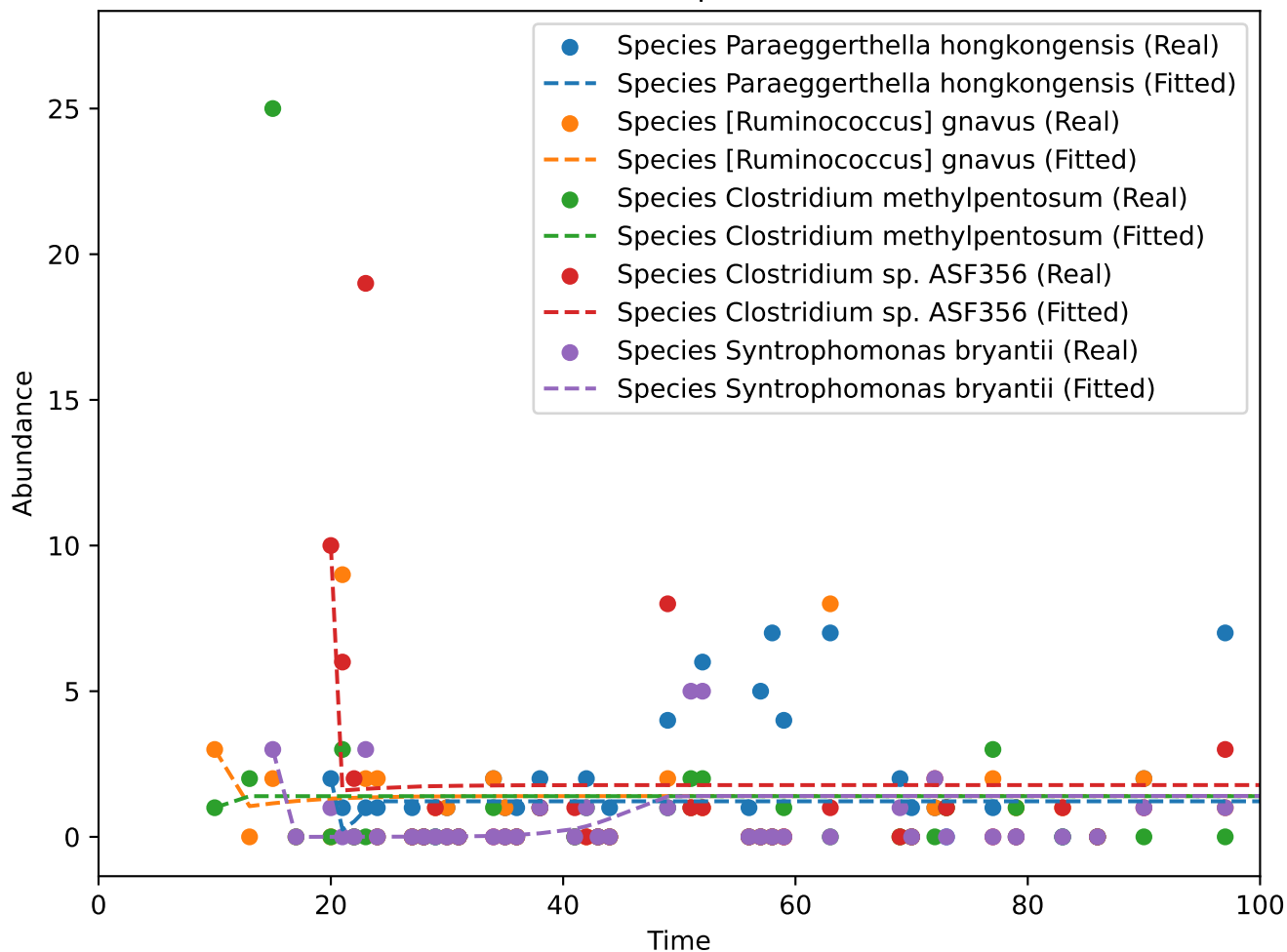
Mouse 5 - Species Fit



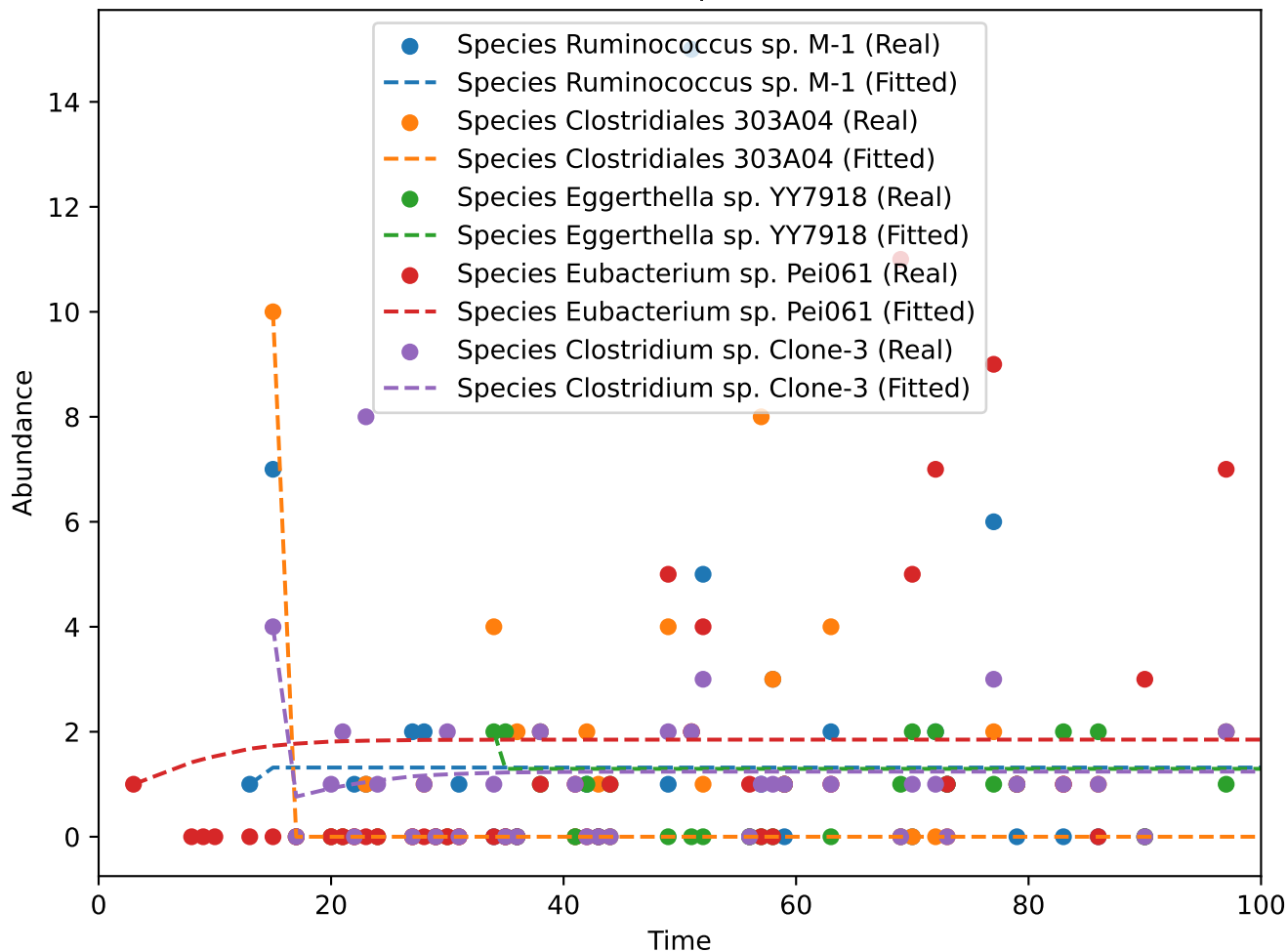
Mouse 5 - Species Fit



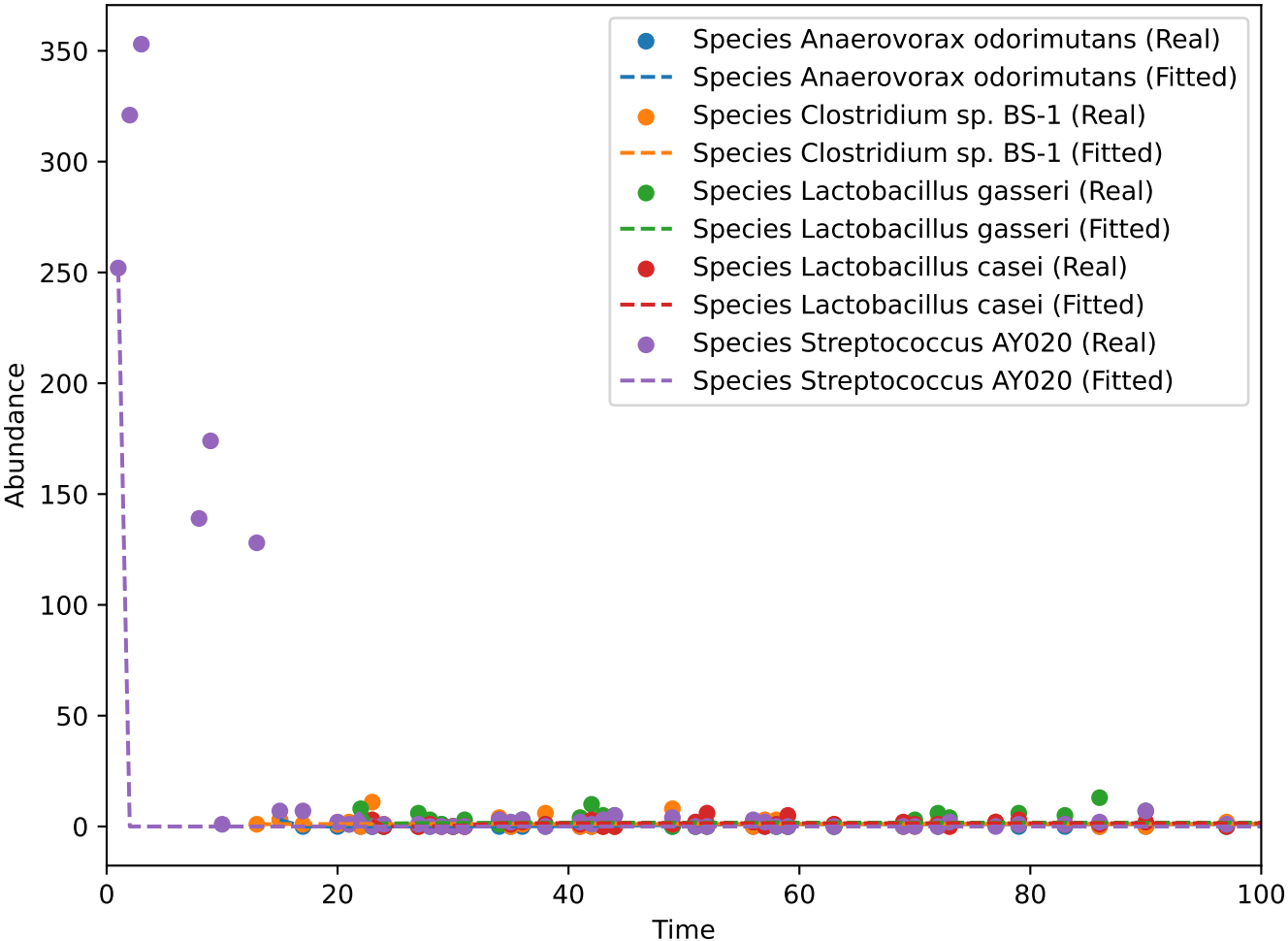
Mouse 5 - Species Fit



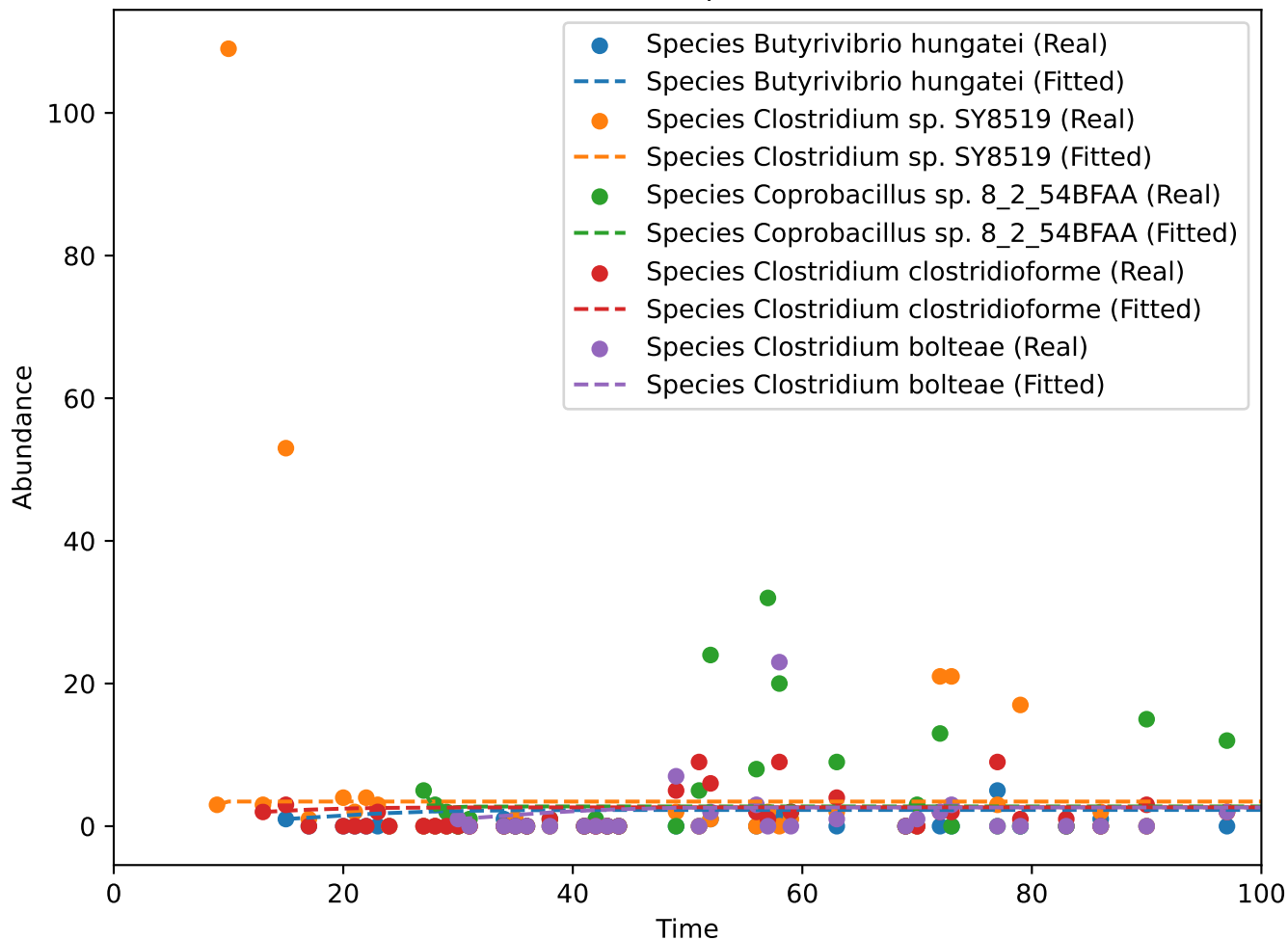
Mouse 5 - Species Fit



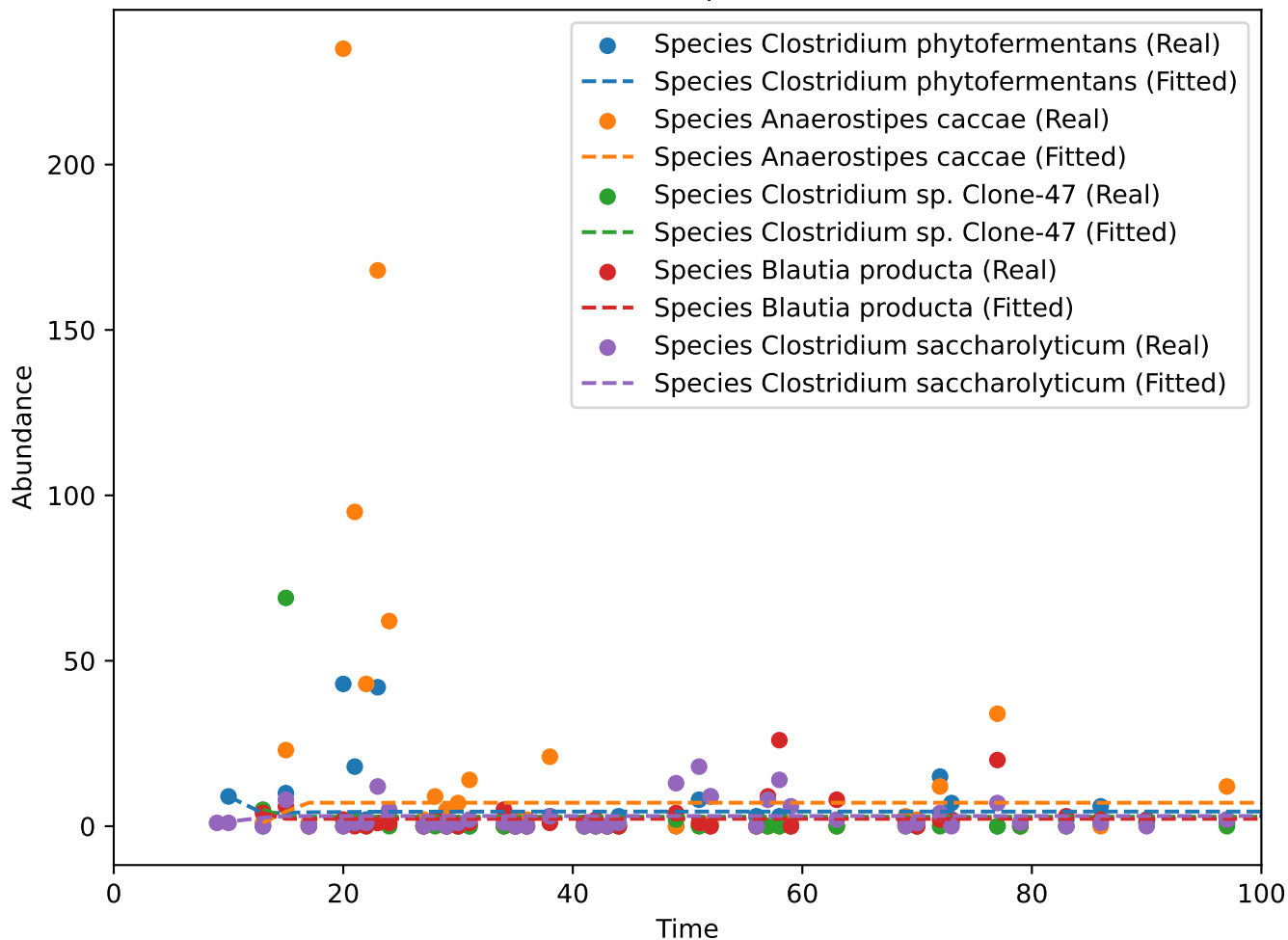
Mouse 5 - Species Fit



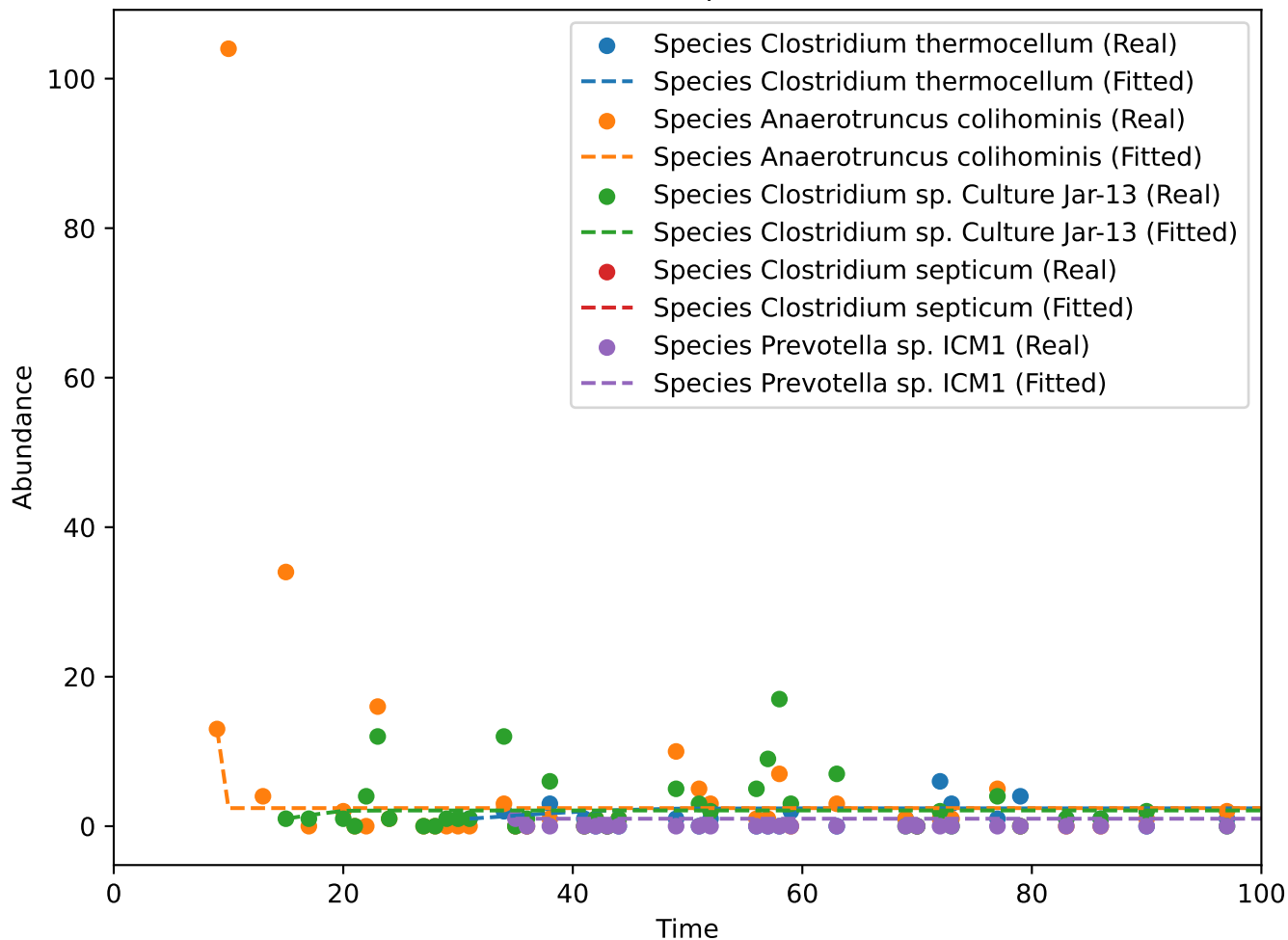
Mouse 5 - Species Fit



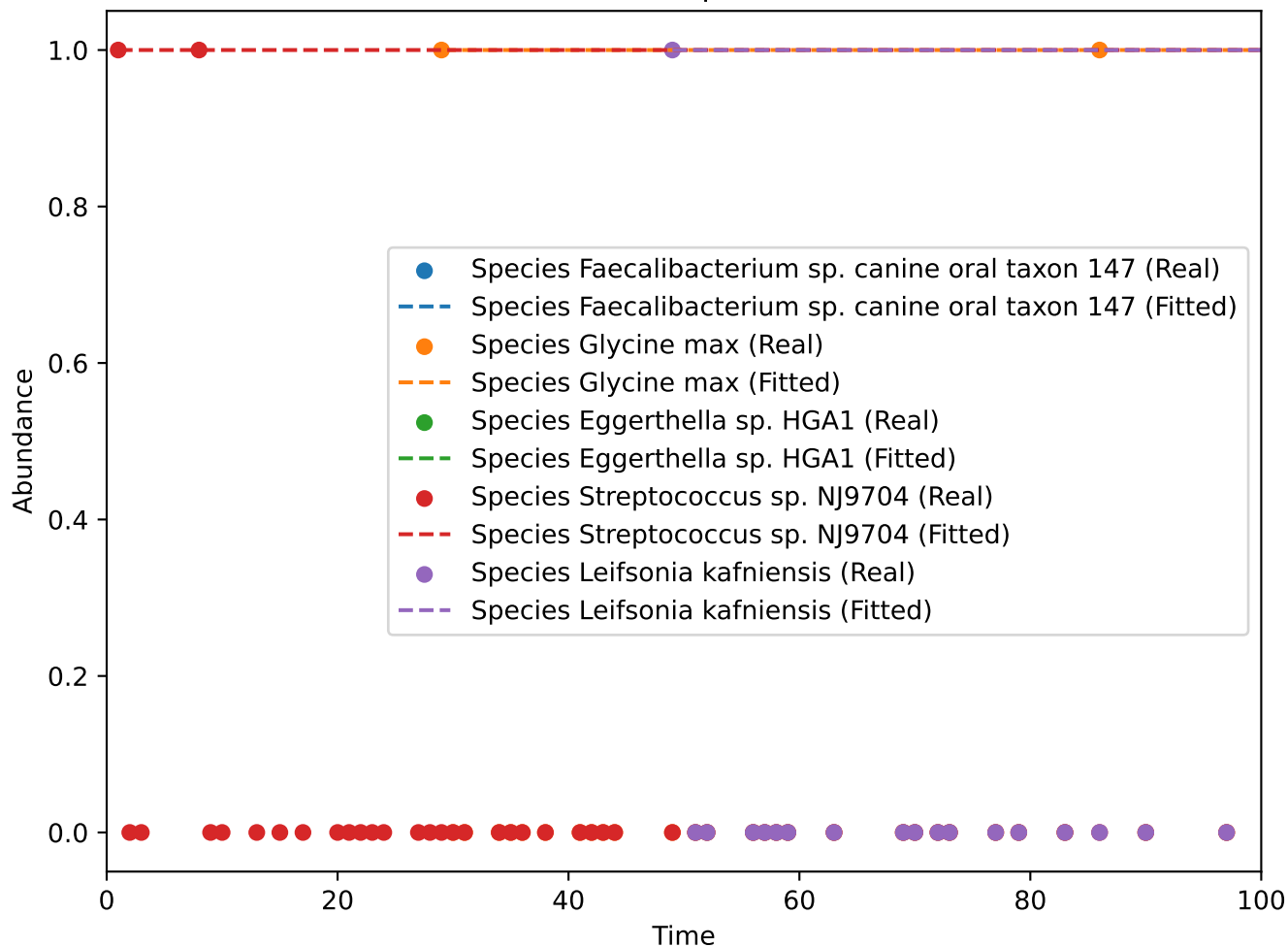
Mouse 5 - Species Fit

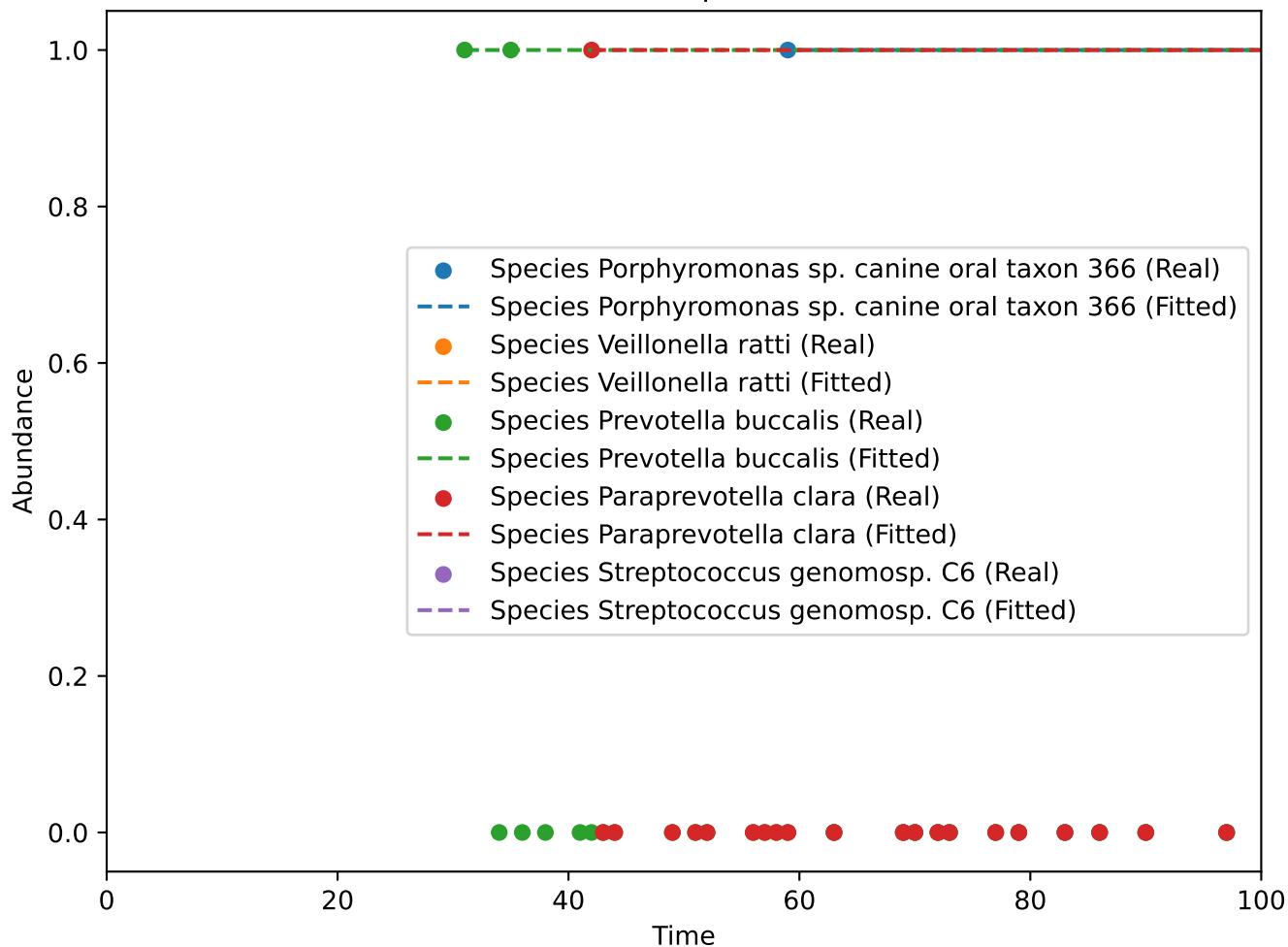


Mouse 5 - Species Fit

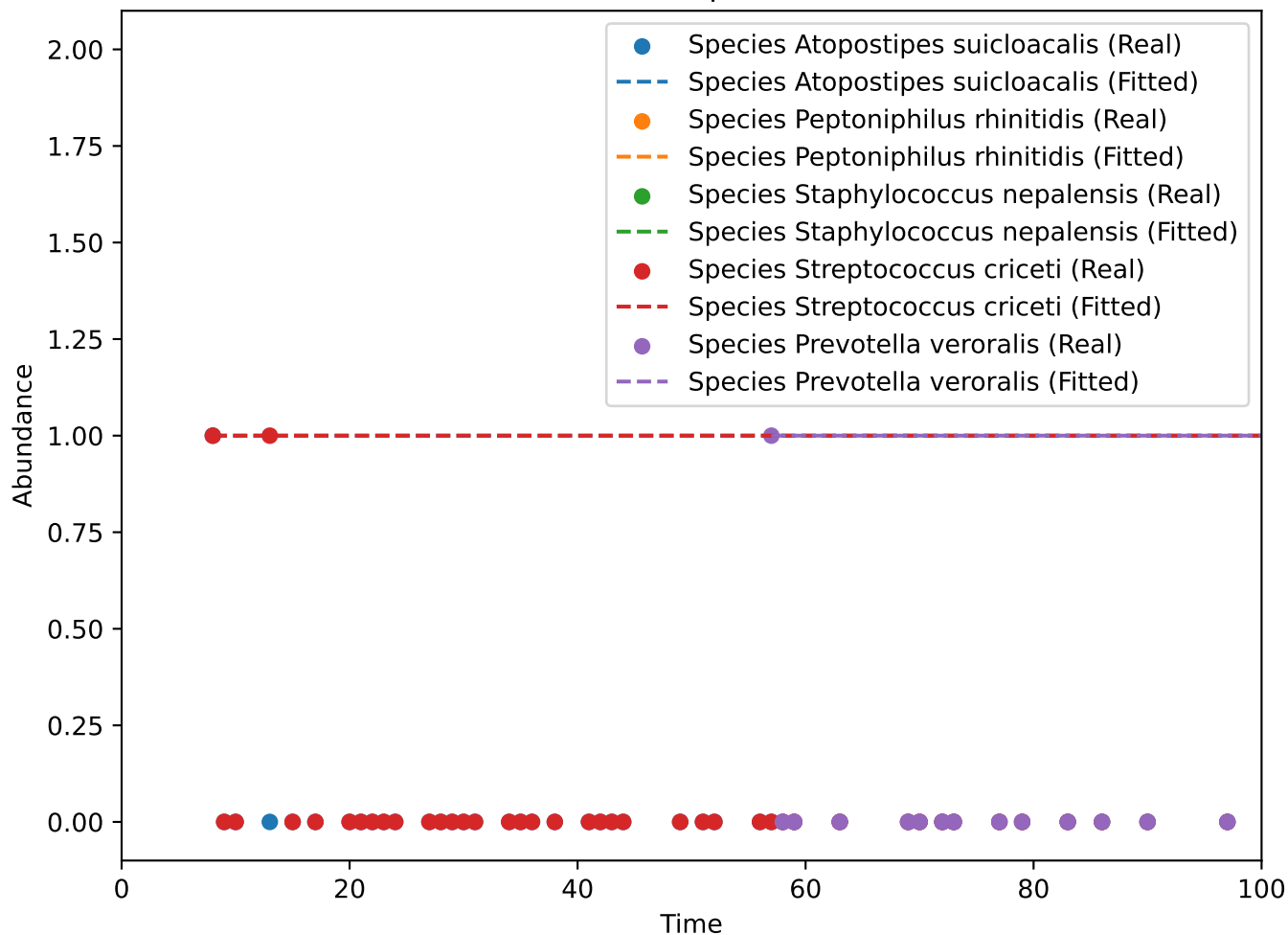


Mouse 5 - Species Fit

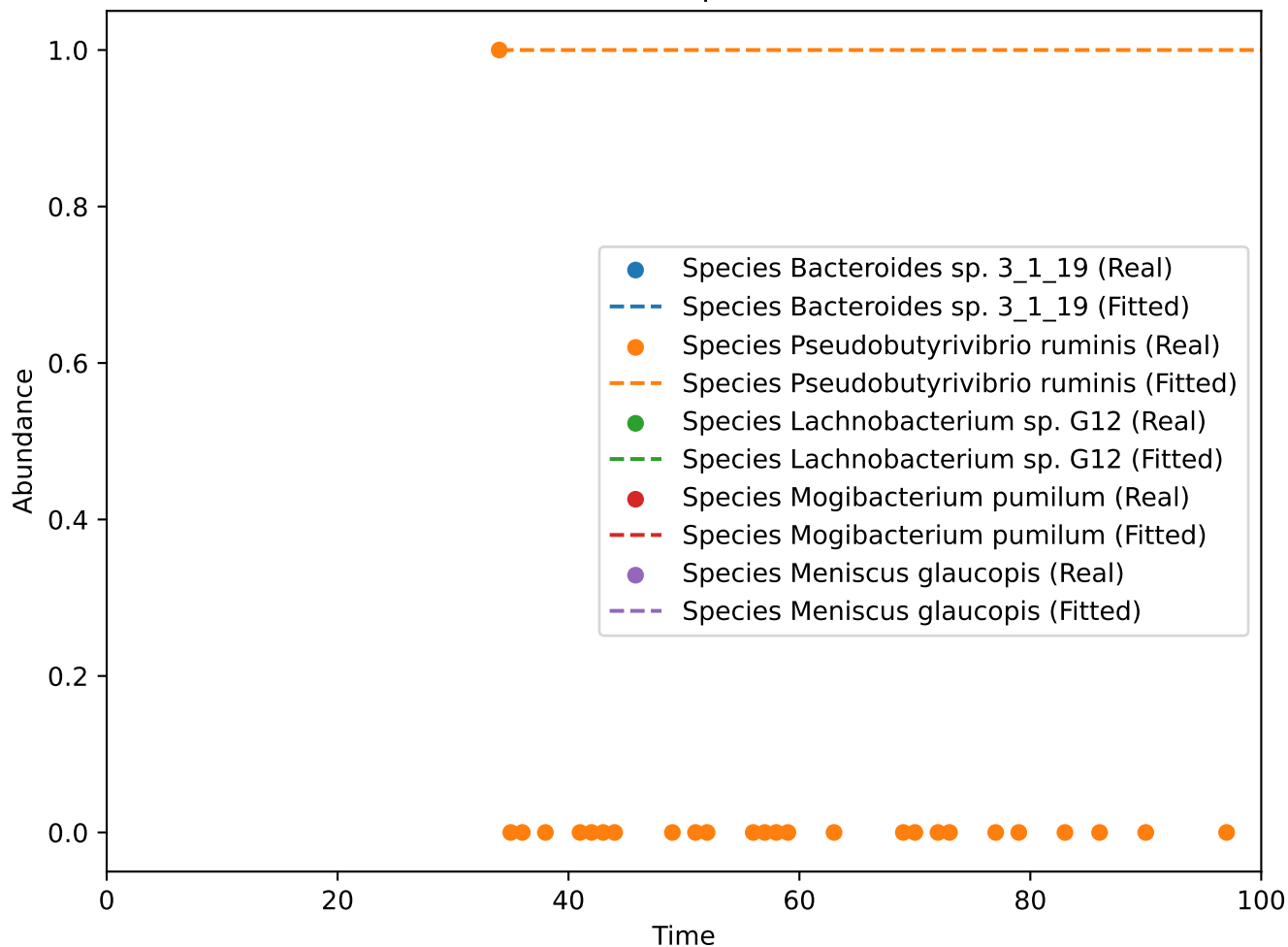


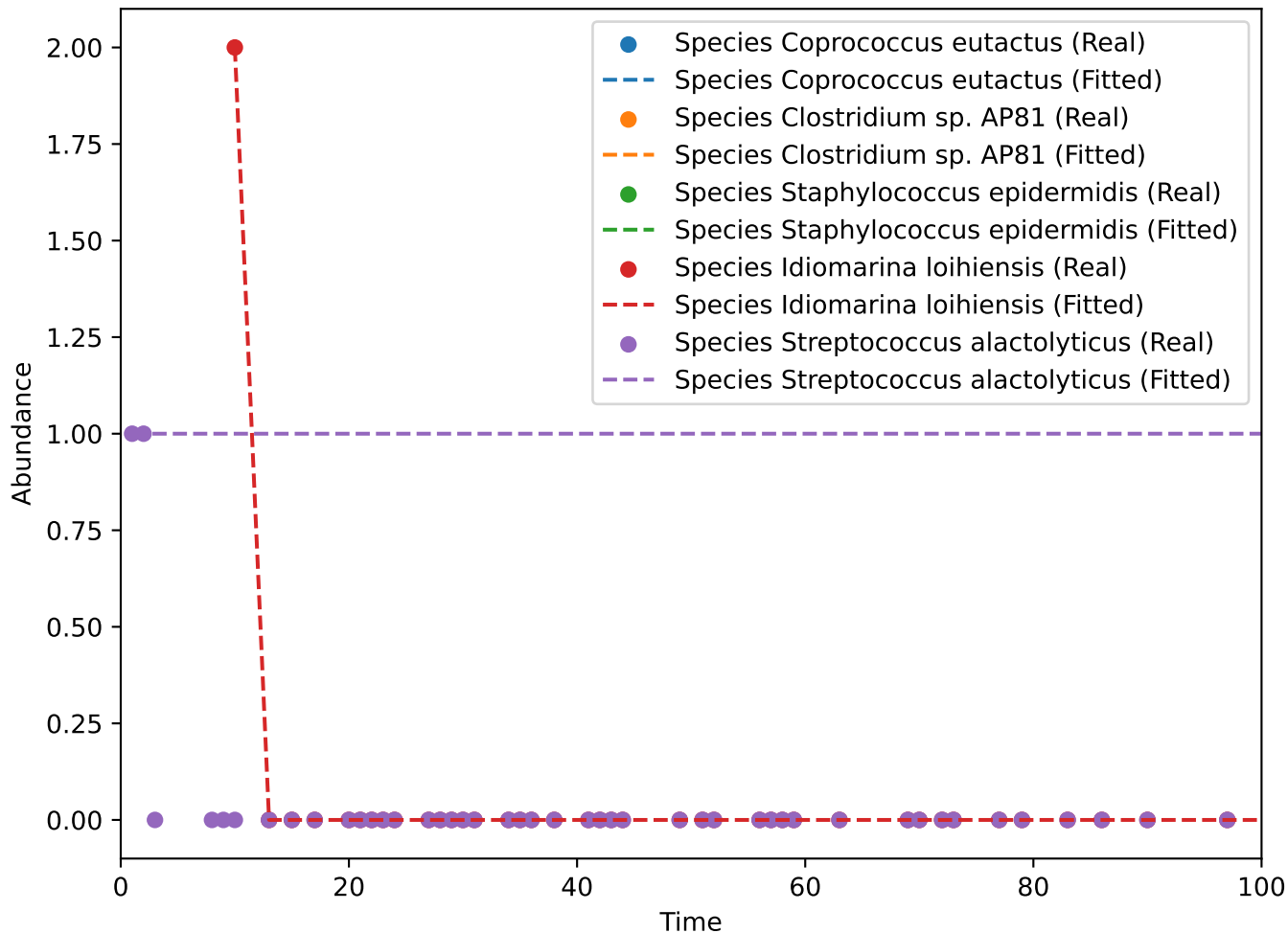


Mouse 5 - Species Fit

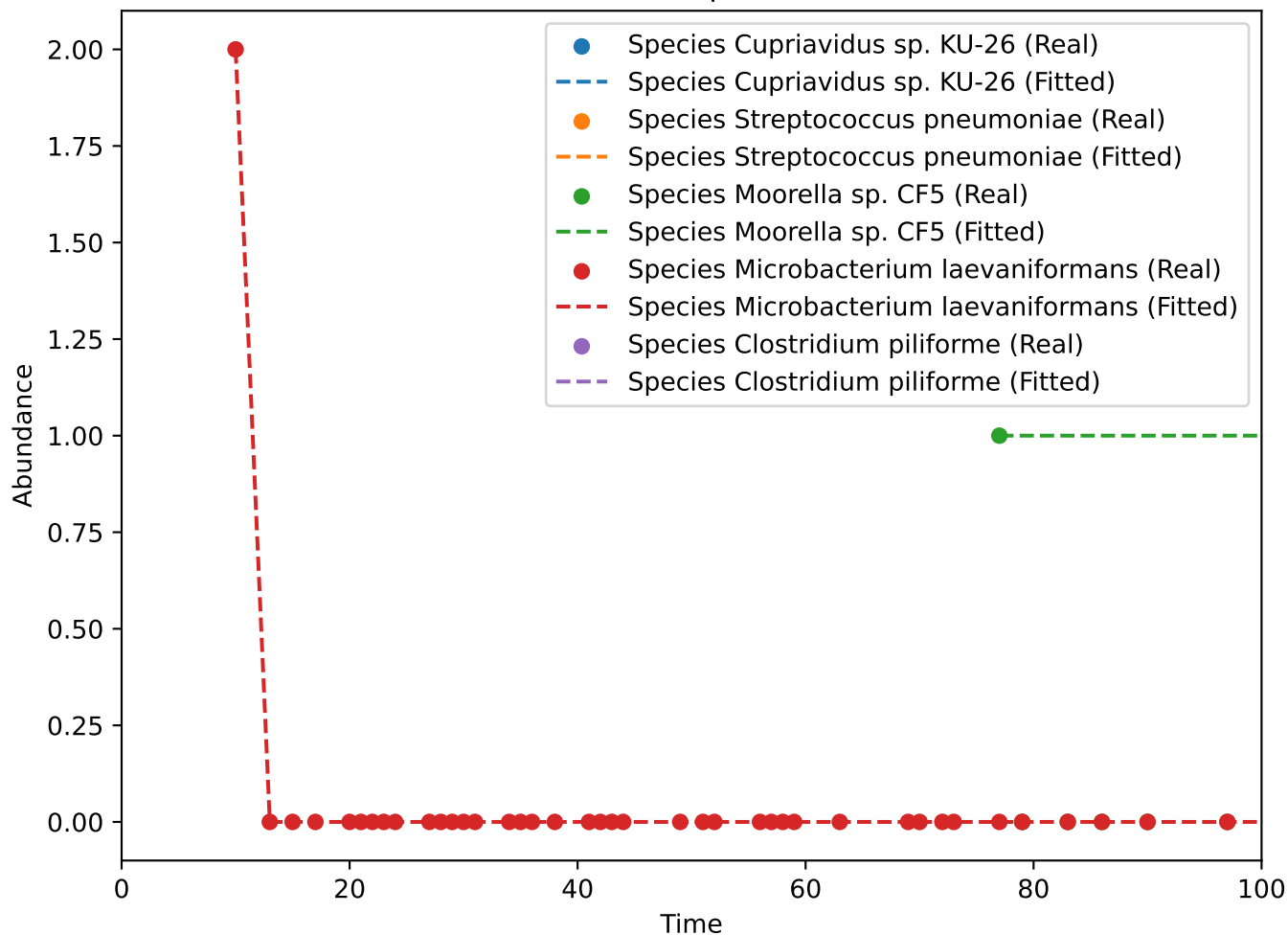


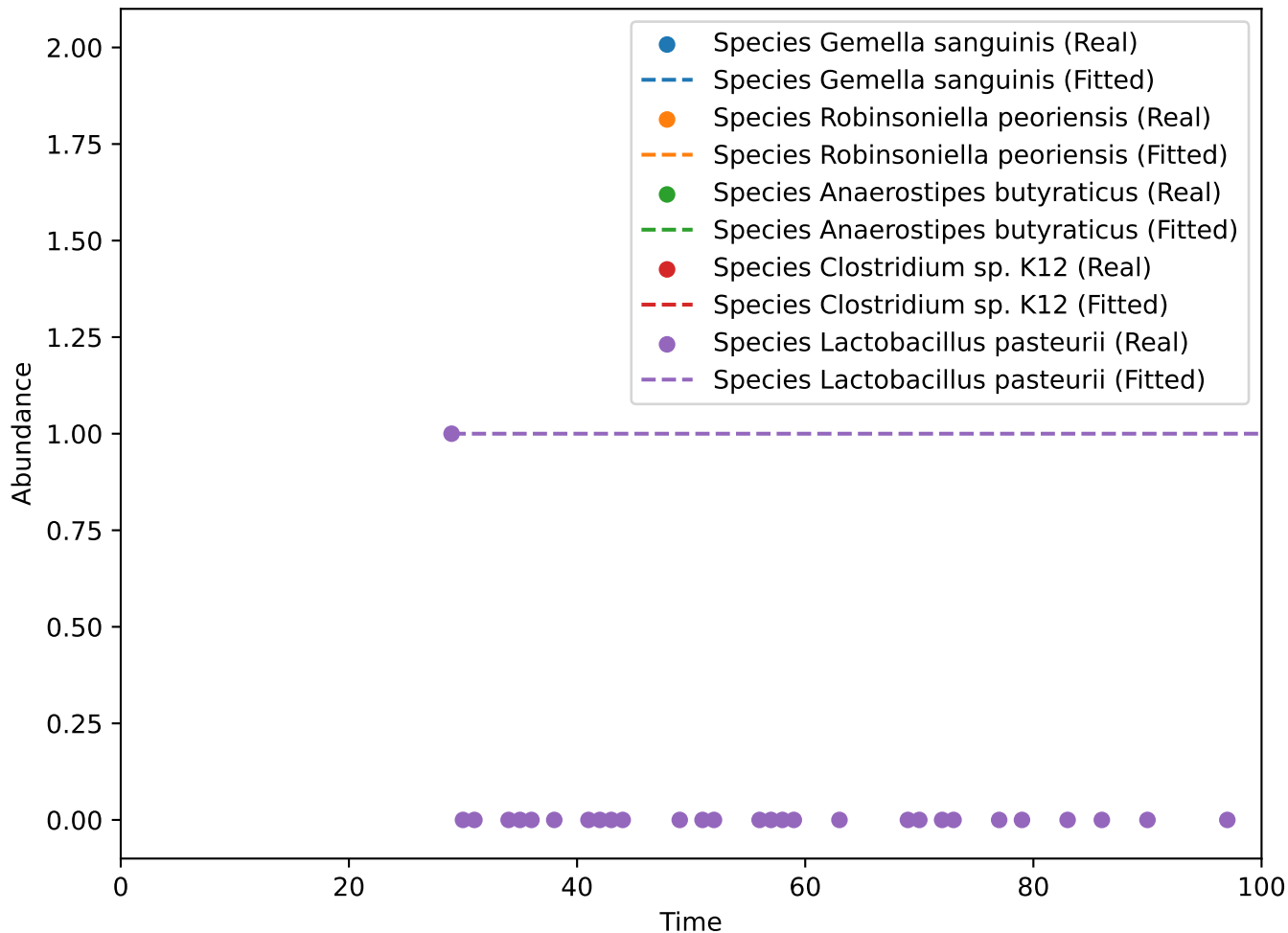
Mouse 5 - Species Fit





Mouse 5 - Species Fit





Species Corynebacterium striatum (Real)

Species Corynebacterium striatum (Fitted)

Species Odoribacter laneus (Real)

Species Odoribacter laneus (Fitted)

Species Clostridium sp. K11 (Real)

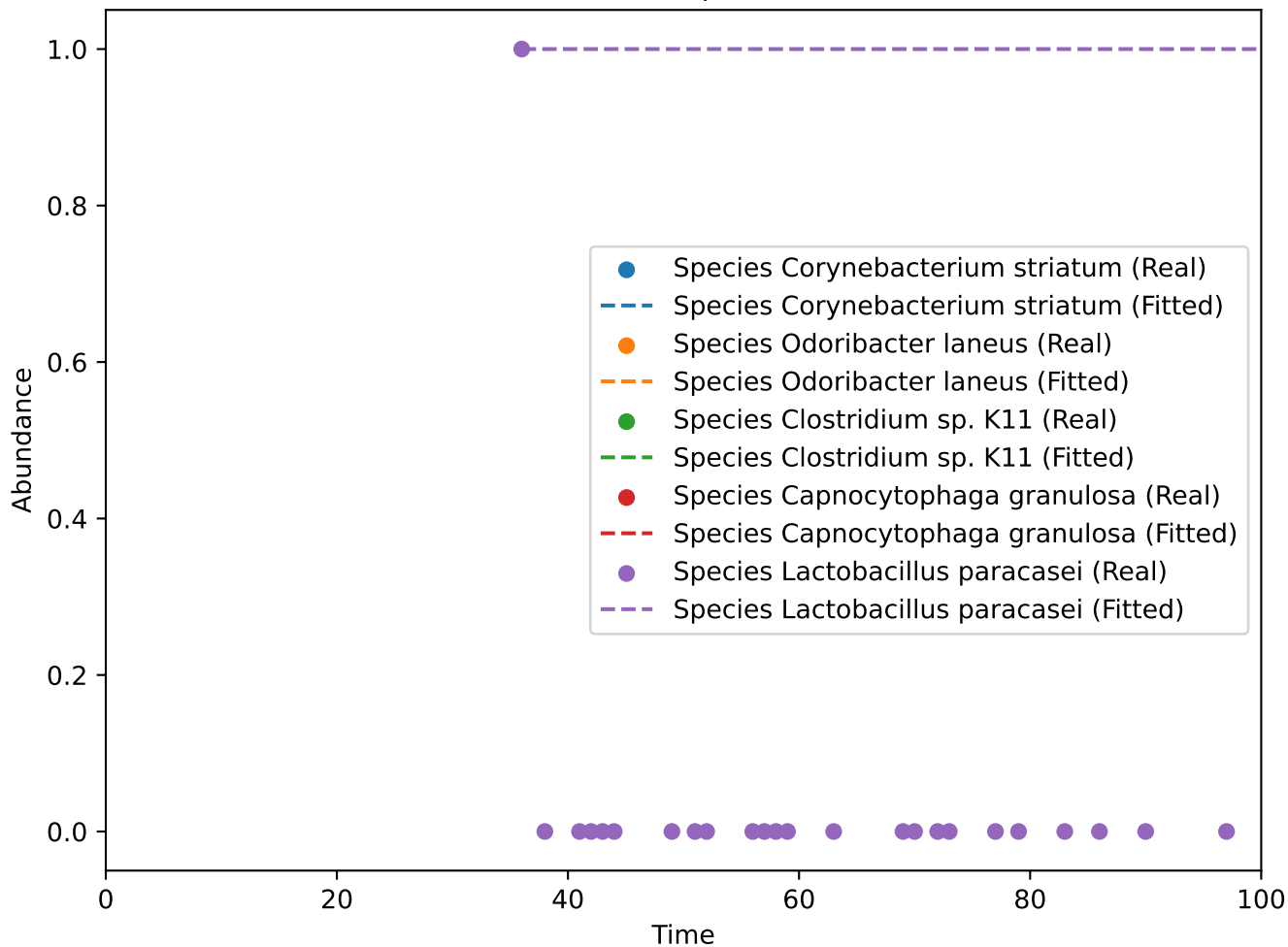
Species Clostridium sp. K11 (Fitted)

Species Capnocytophaga granulosa (Real)

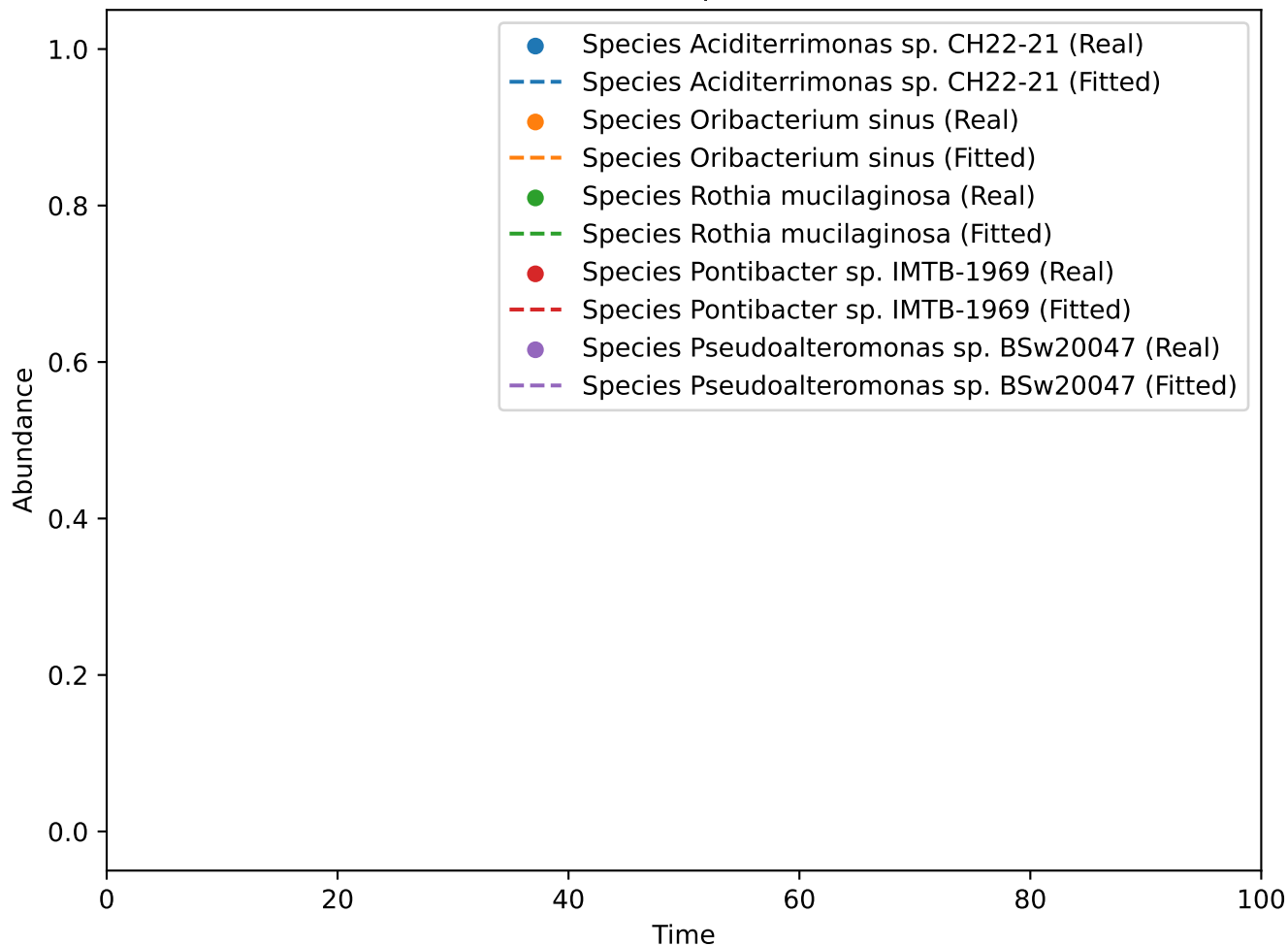
Species Capnocytophaga granulosa (Fitted)

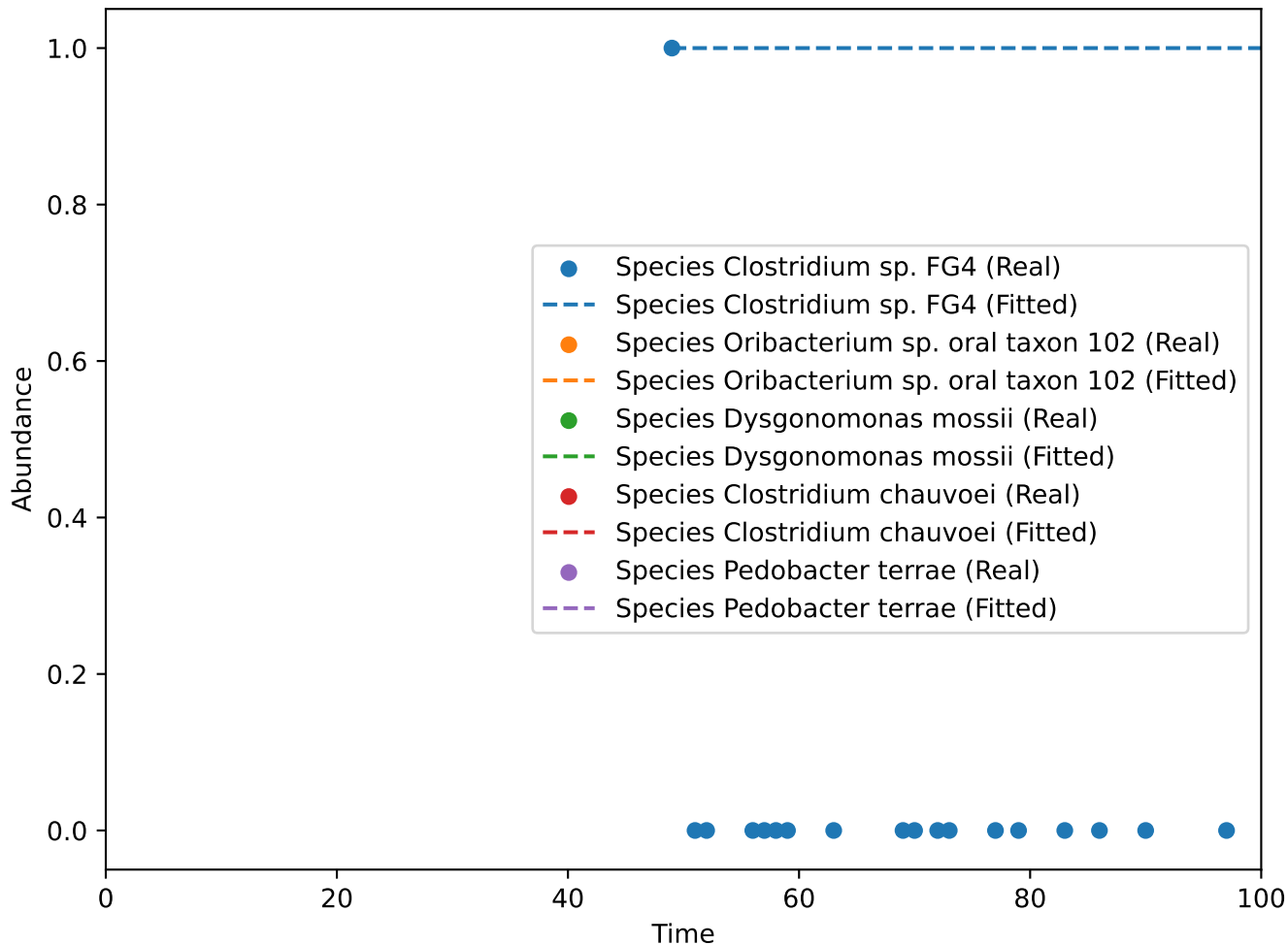
Species Lactobacillus paracasei (Real)

Species Lactobacillus paracasei (Fitted)



Mouse 5 - Species Fit





Species Catonella FL037 (Real)

Species Catonella FL037 (Fitted)

Species Eubacterium ruminantium (Real)

Species Eubacterium ruminantium (Fitted)

Species Prevotella paludivivens (Real)

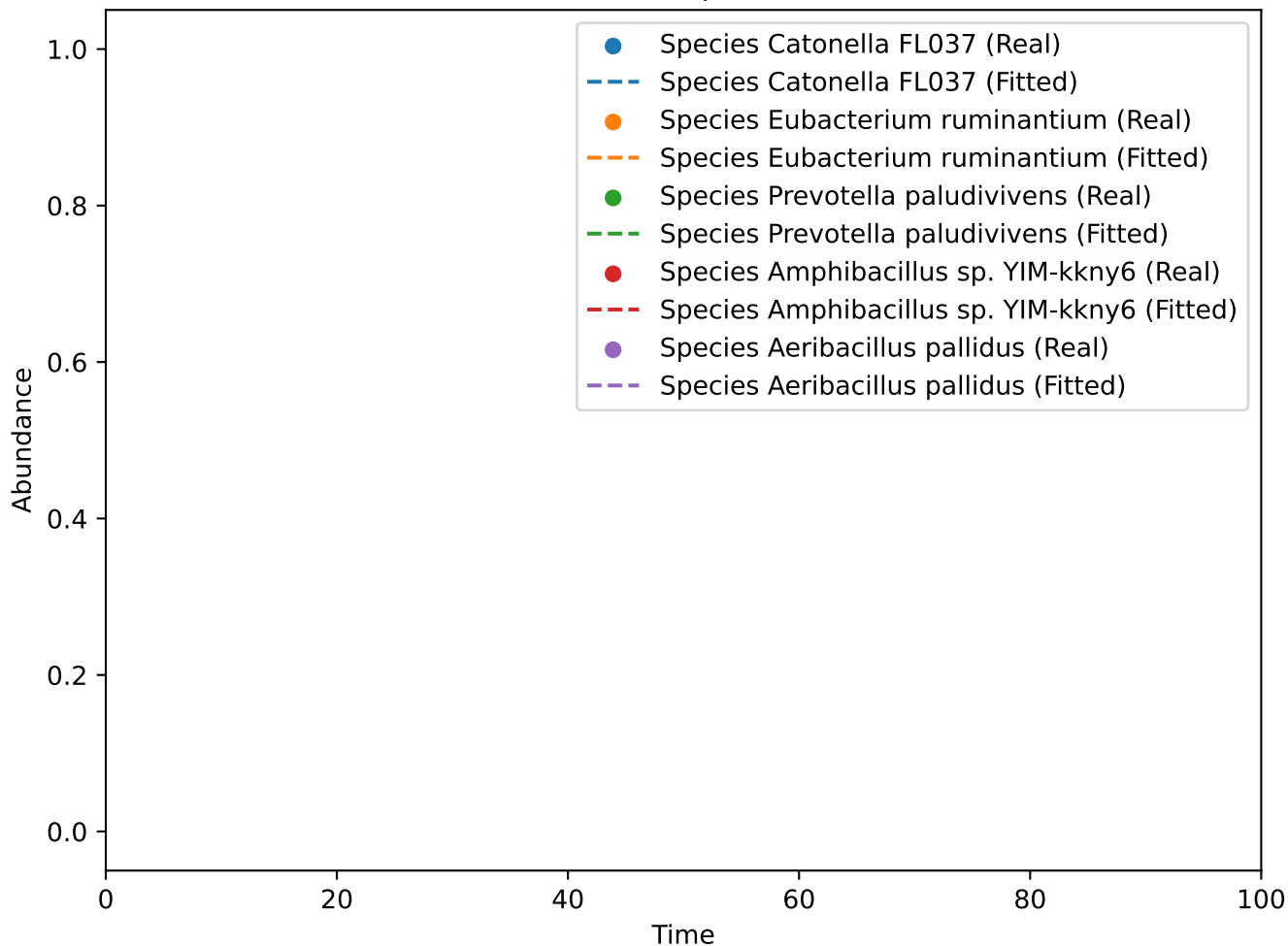
Species Prevotella paludivivens (Fitted)

Species Amphibacillus sp. YIM-kkny6 (Real)

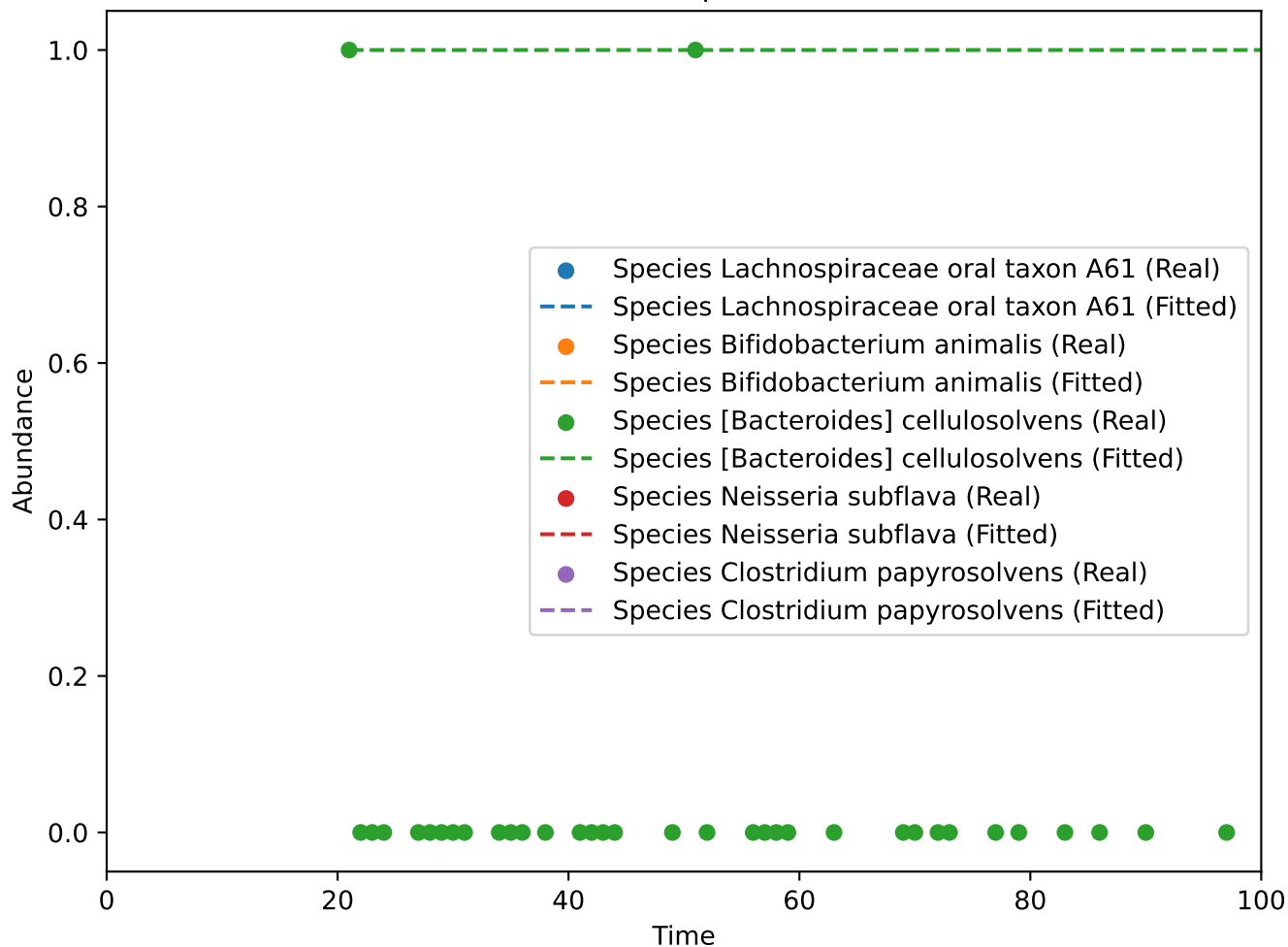
Species Amphibacillus sp. YIM-kkny6 (Fitted)

Species Aeribacillus pallidus (Real)

Species Aeribacillus pallidus (Fitted)



Mouse 5 - Species Fit



Species Prevotella dentalis (Real)

Species Prevotella dentalis (Fitted)

Species Olsenella umbonata (Real)

Species Olsenella umbonata (Fitted)

Species Sporosarcina sp. 106 (Real)

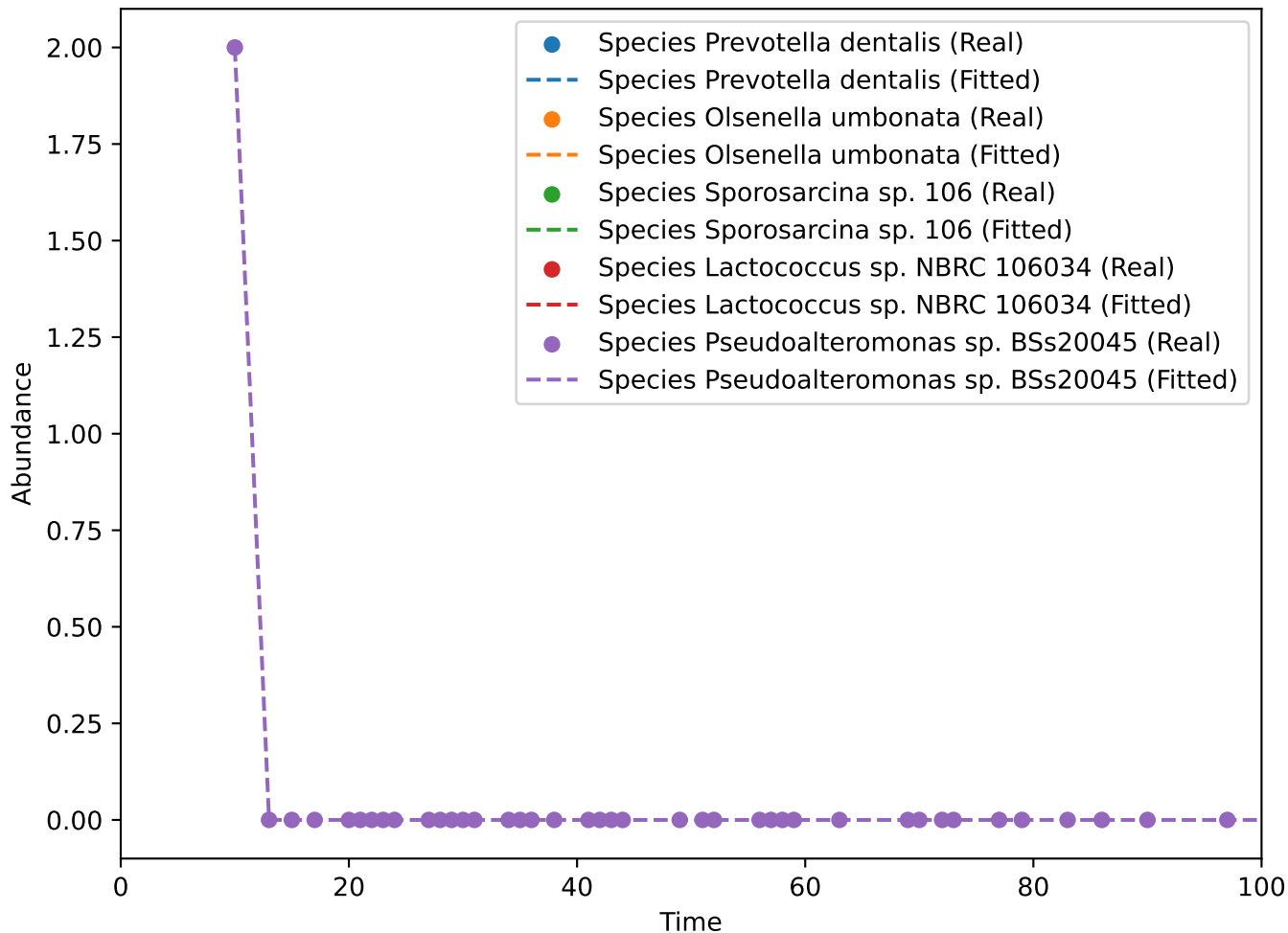
Species Sporosarcina sp. 106 (Fitted)

Species Lactococcus sp. NBRC 106034 (Real)

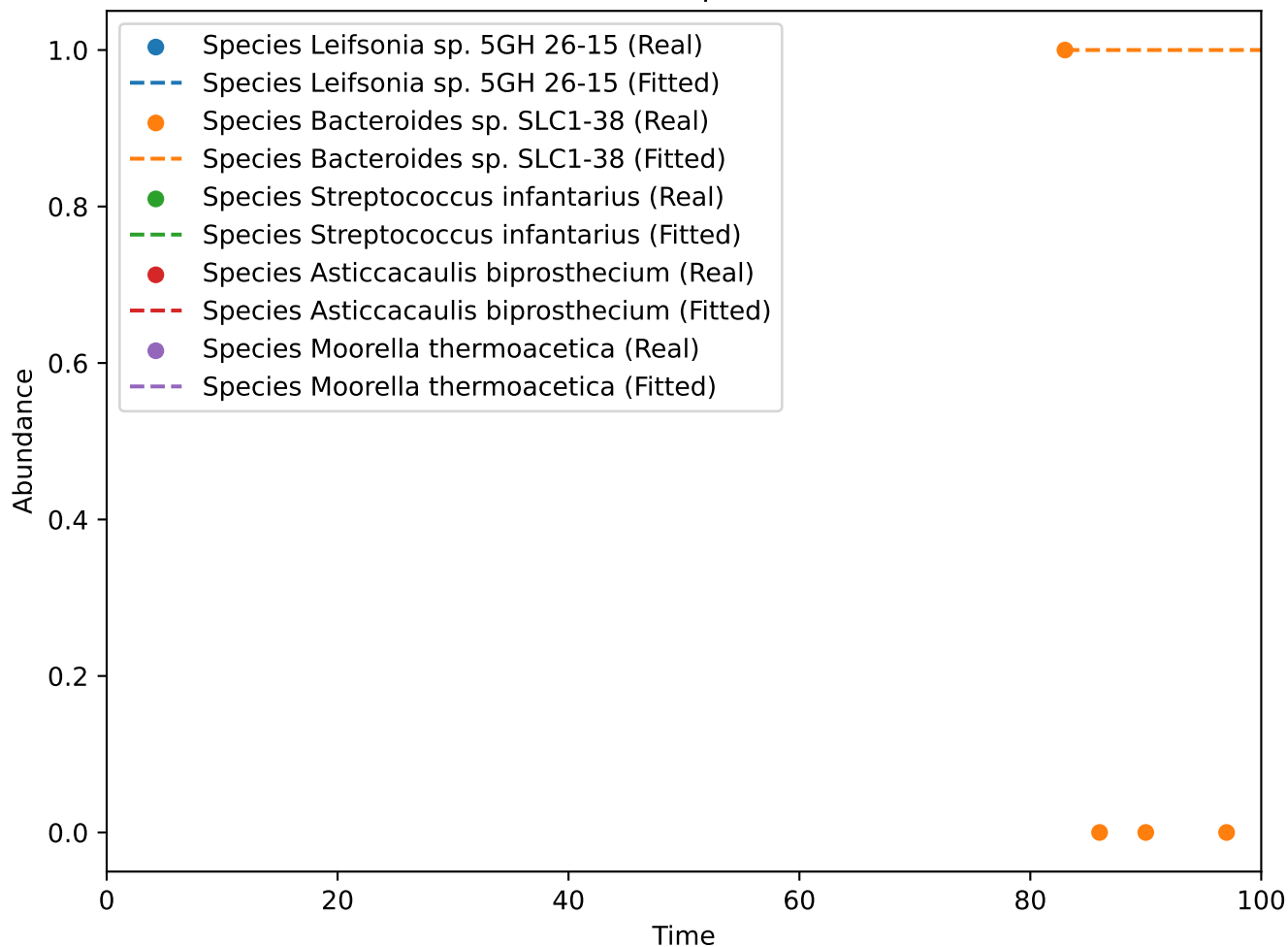
Species Lactococcus sp. NBRC 106034 (Fitted)

Species Pseudoalteromonas sp. BSs20045 (Real)

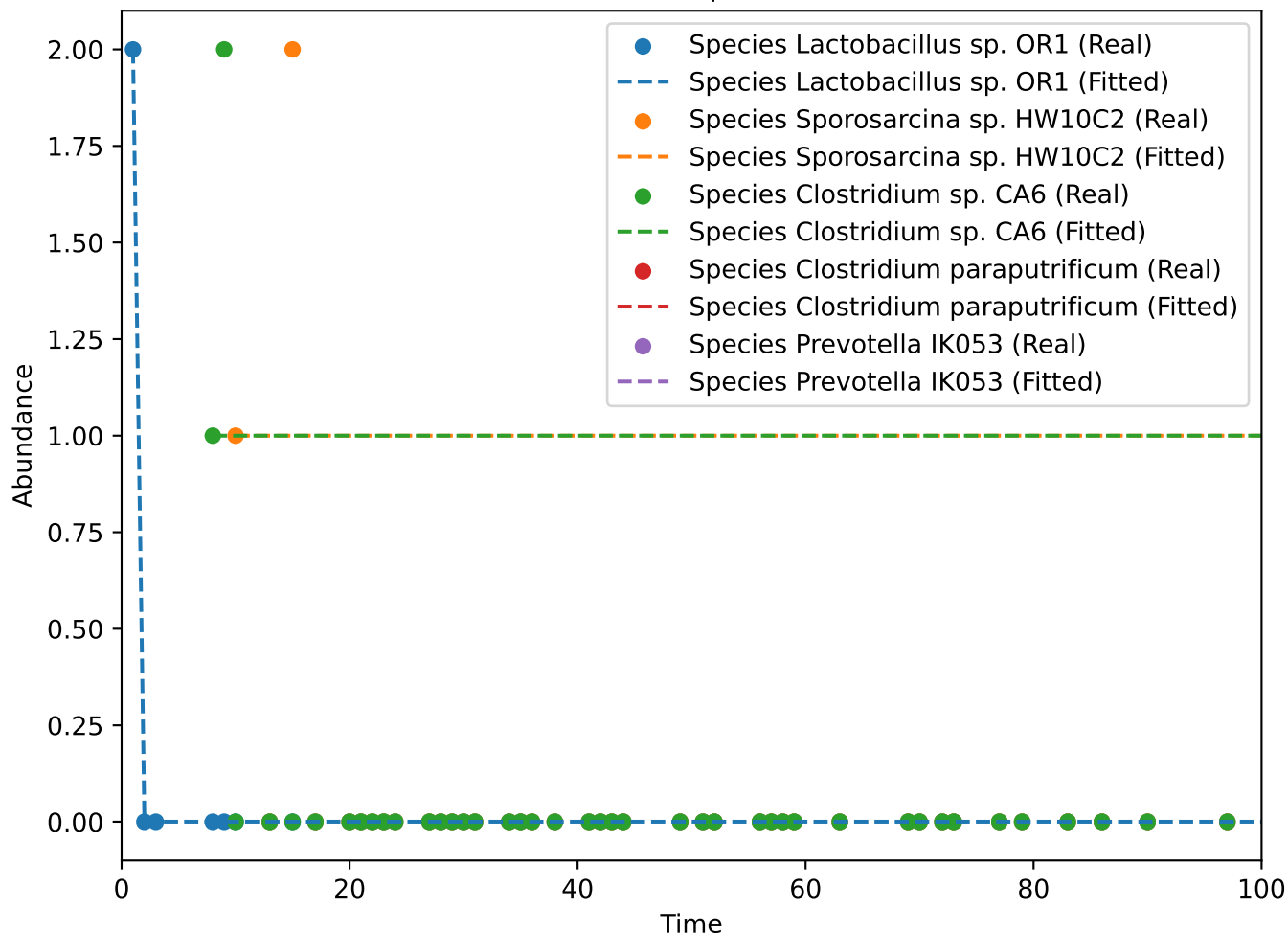
Species Pseudoalteromonas sp. BSs20045 (Fitted)



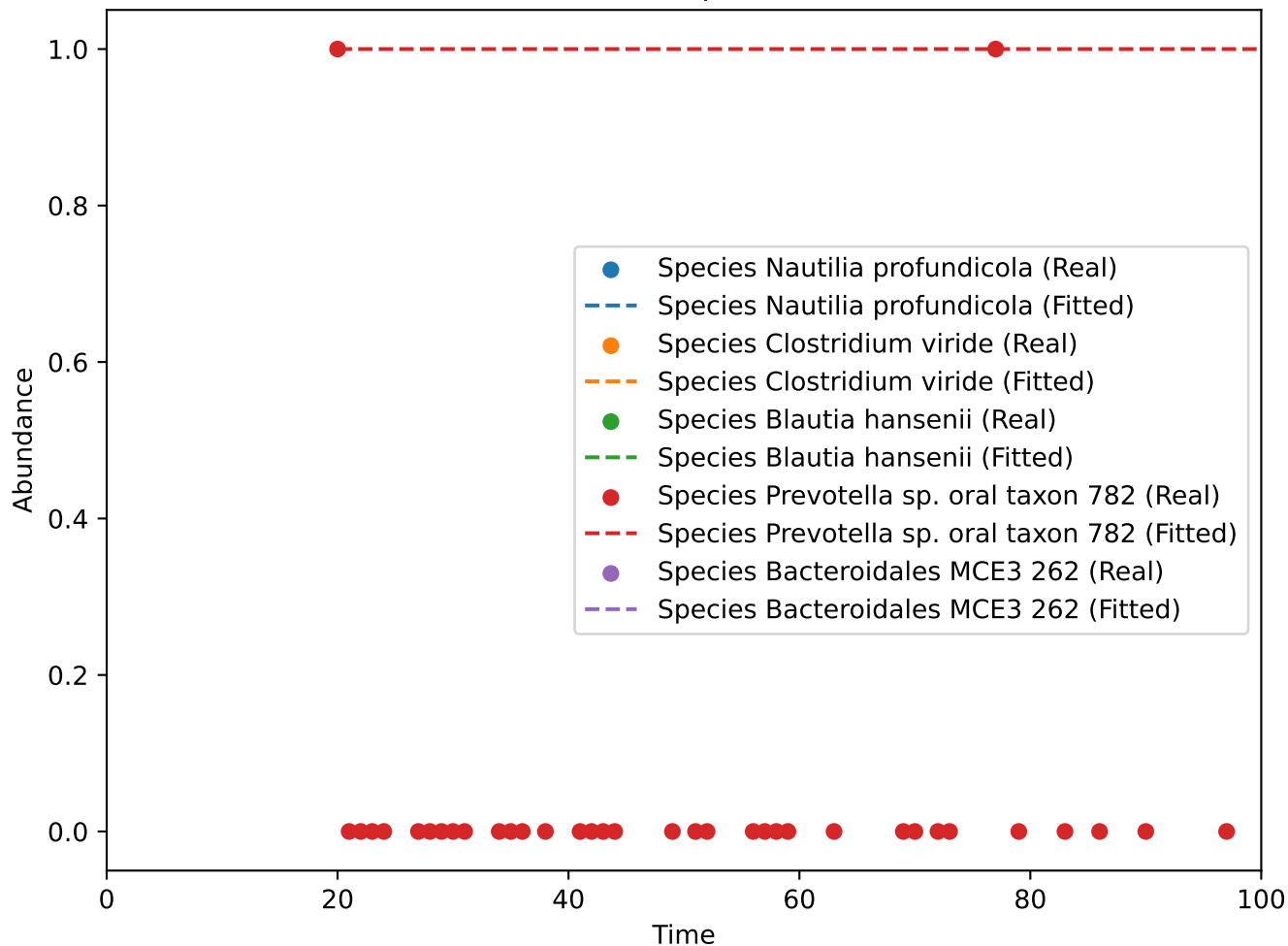
Mouse 5 - Species Fit



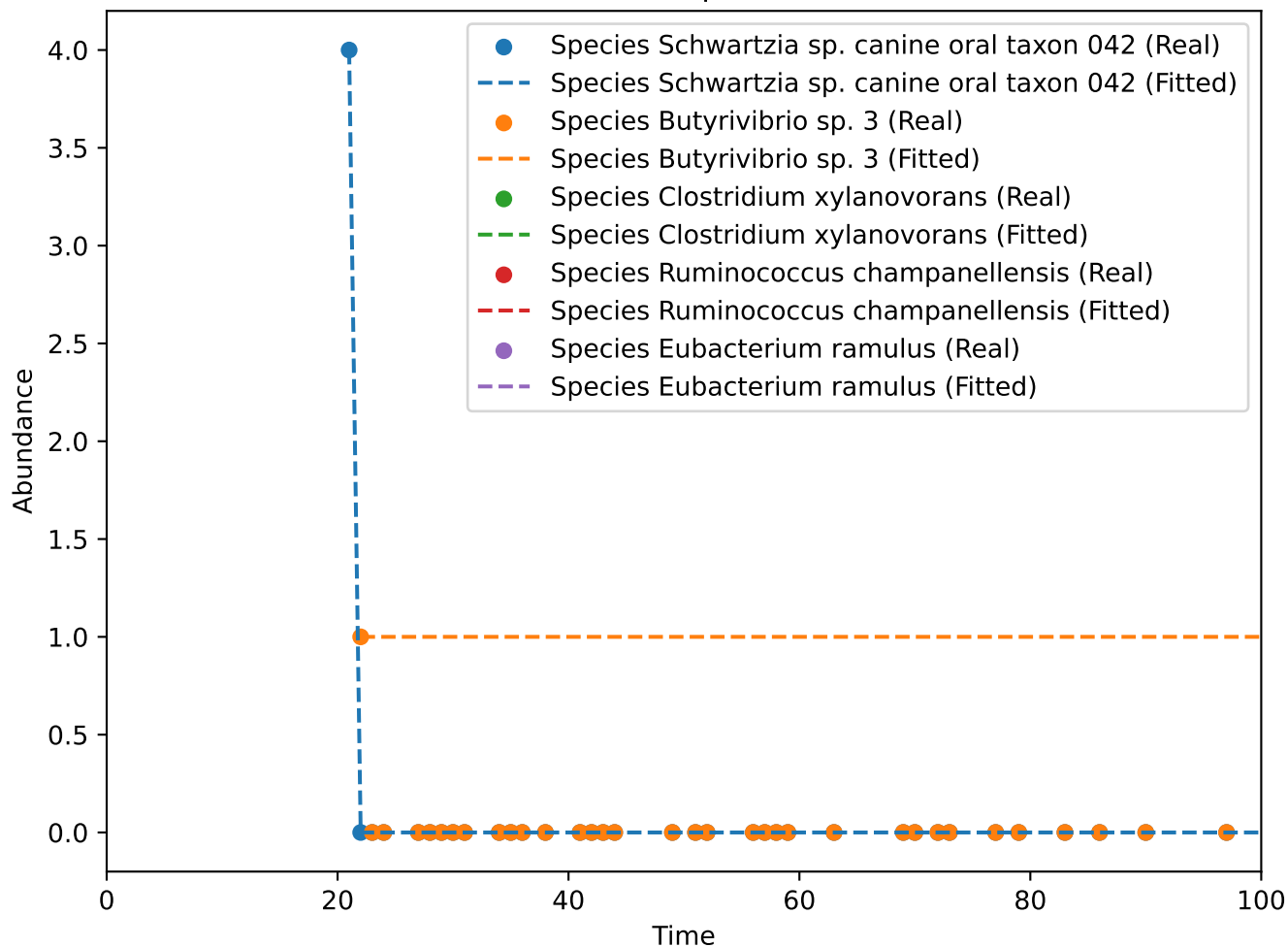
Mouse 5 - Species Fit

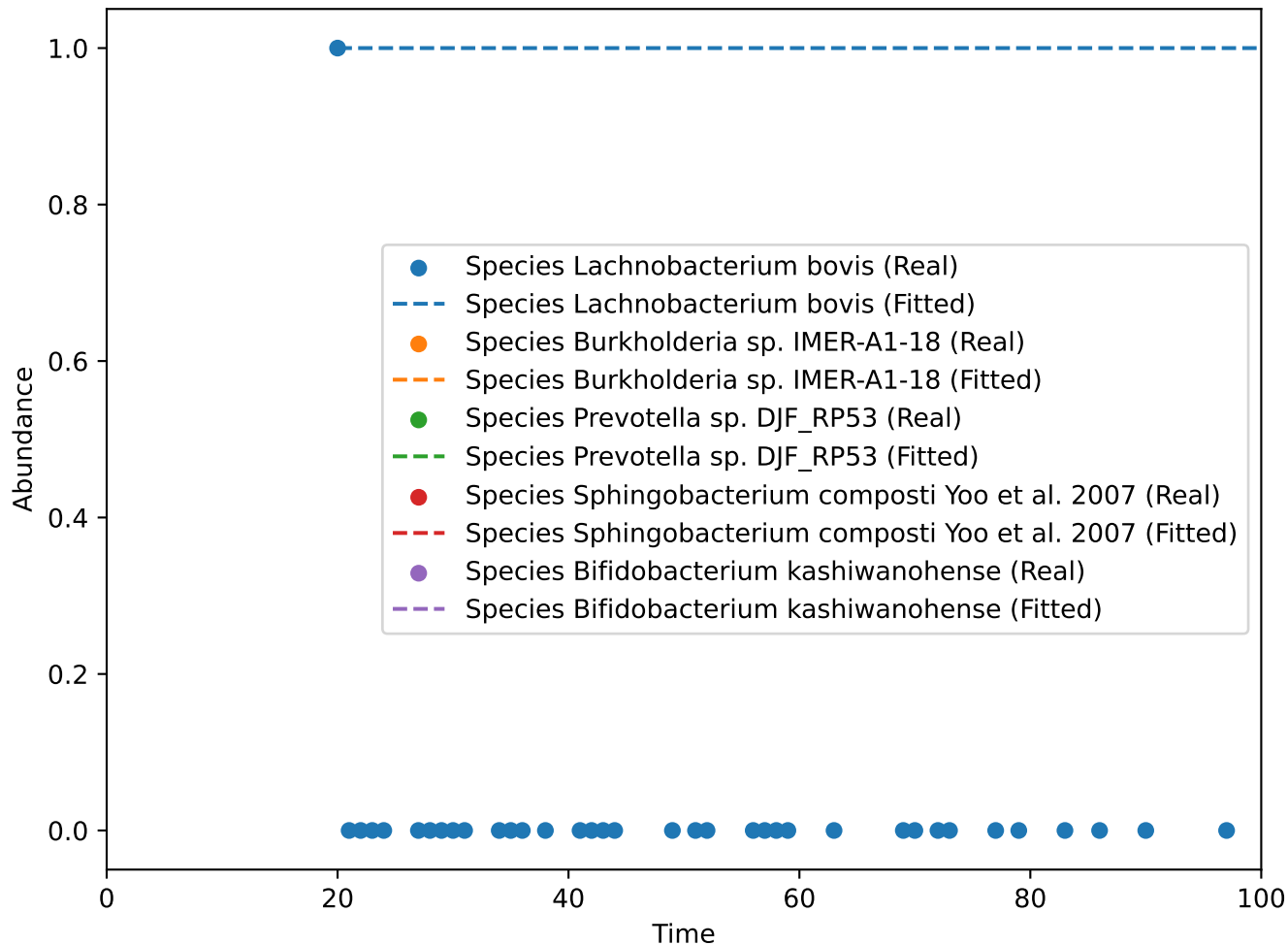


Mouse 5 - Species Fit

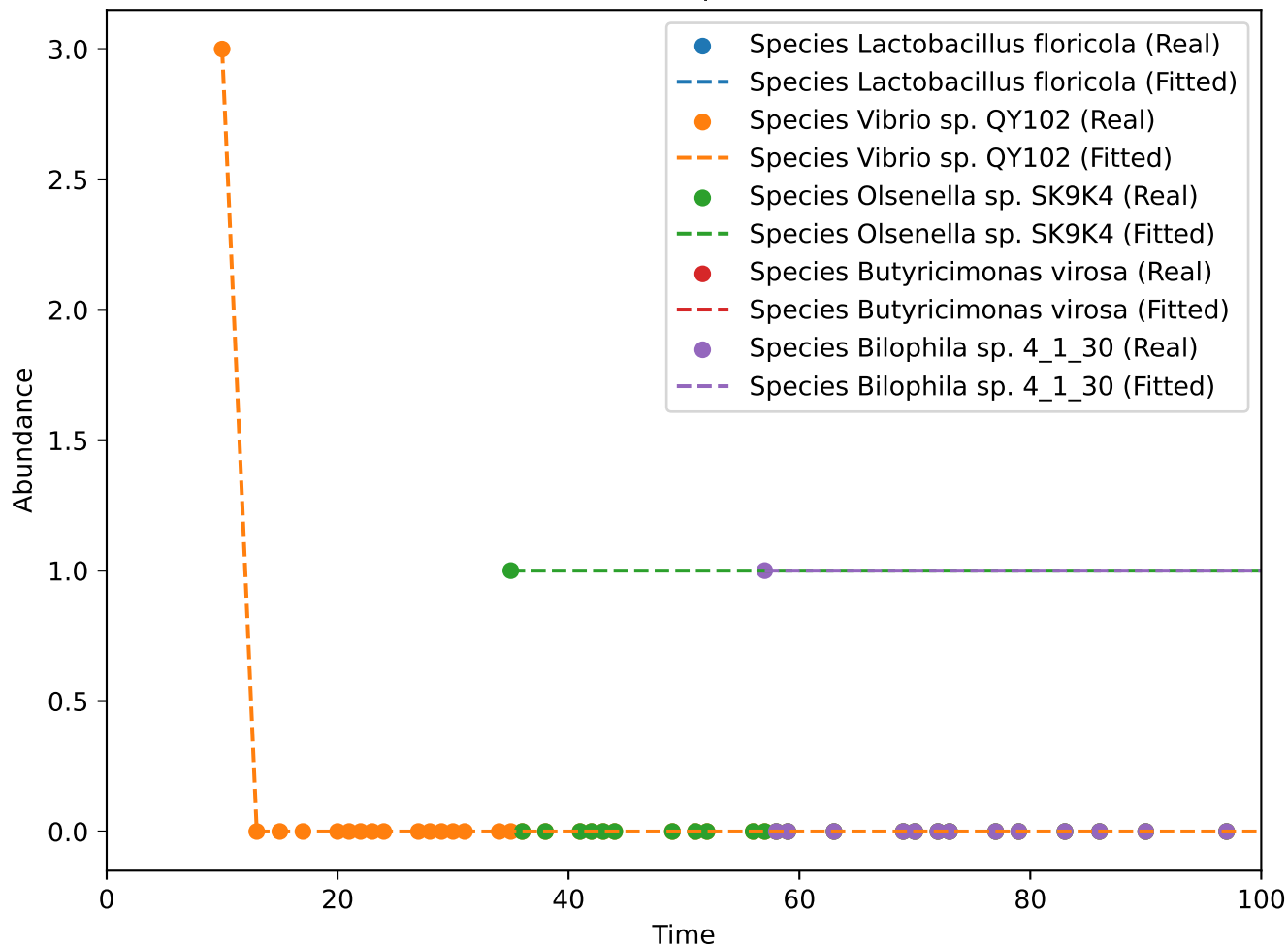


Mouse 5 - Species Fit

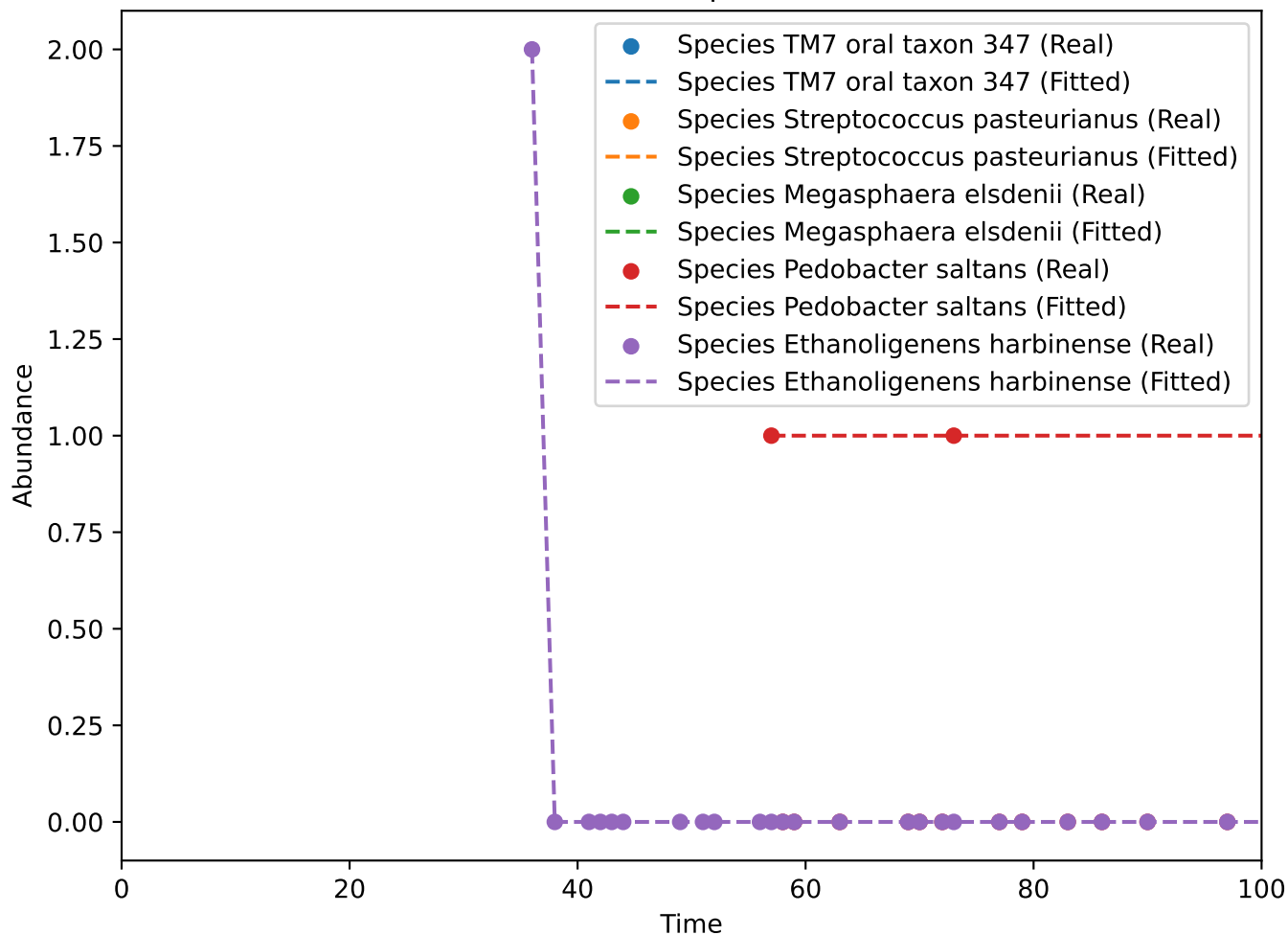




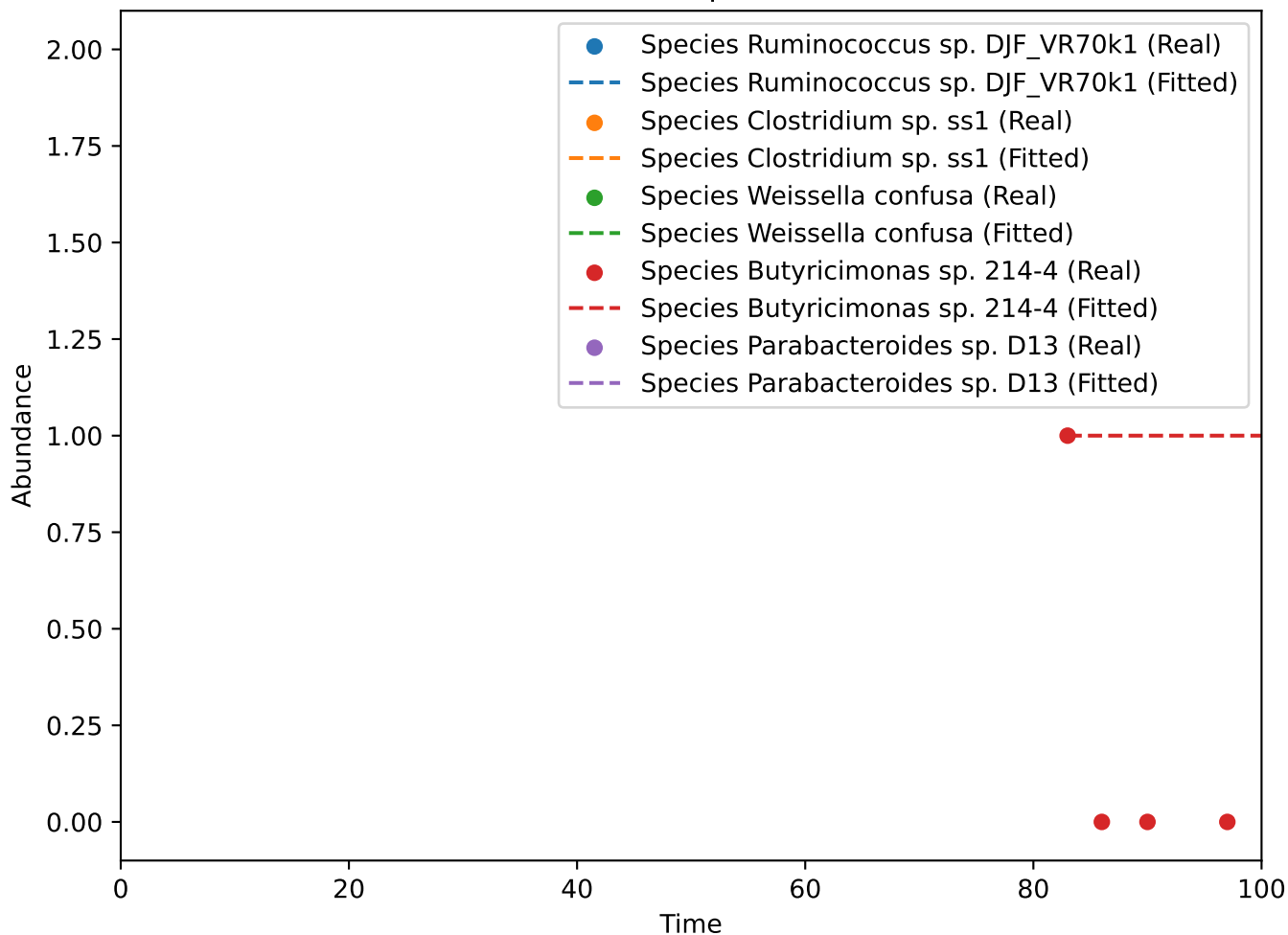
Mouse 5 - Species Fit



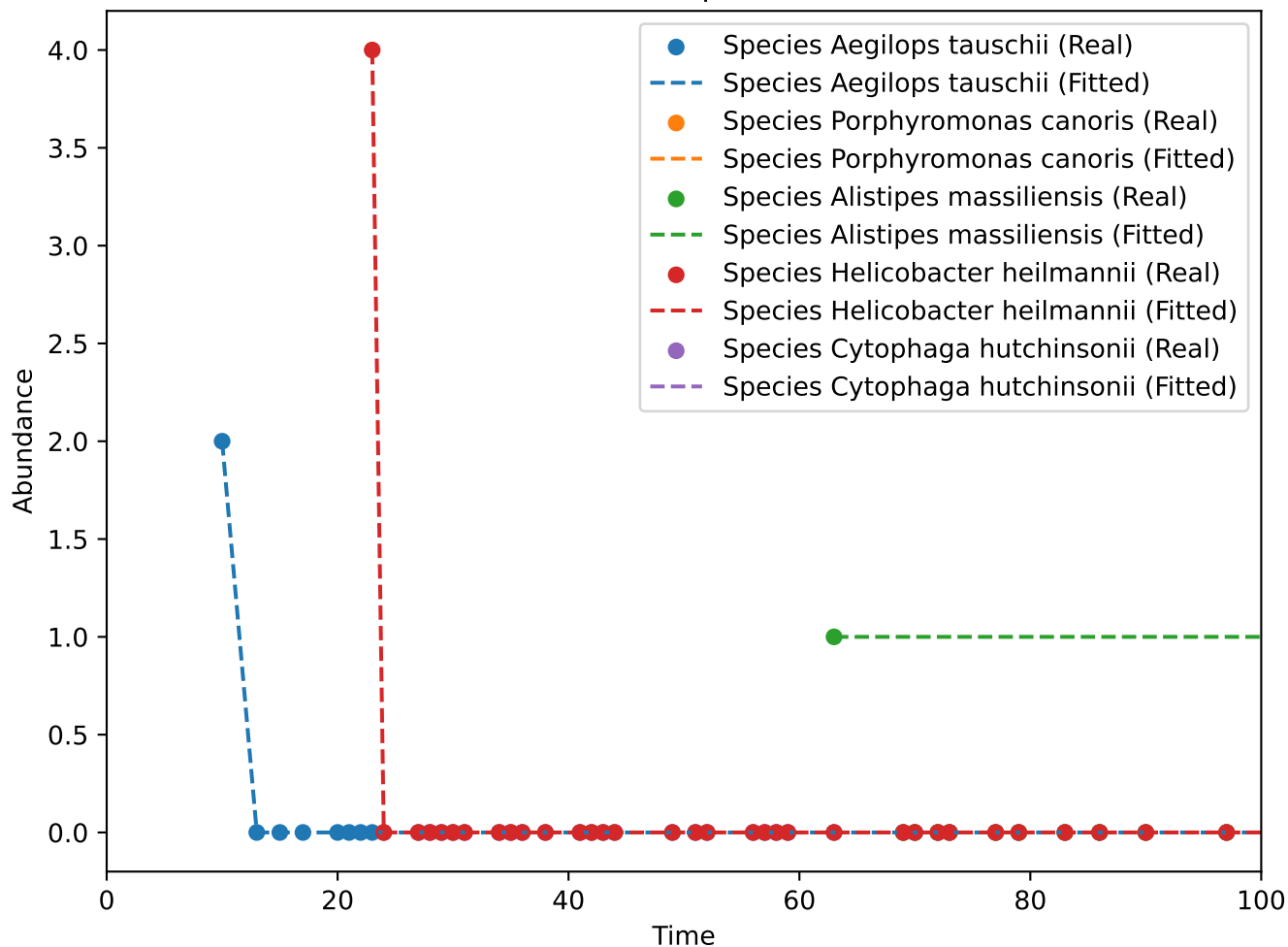
Mouse 5 - Species Fit



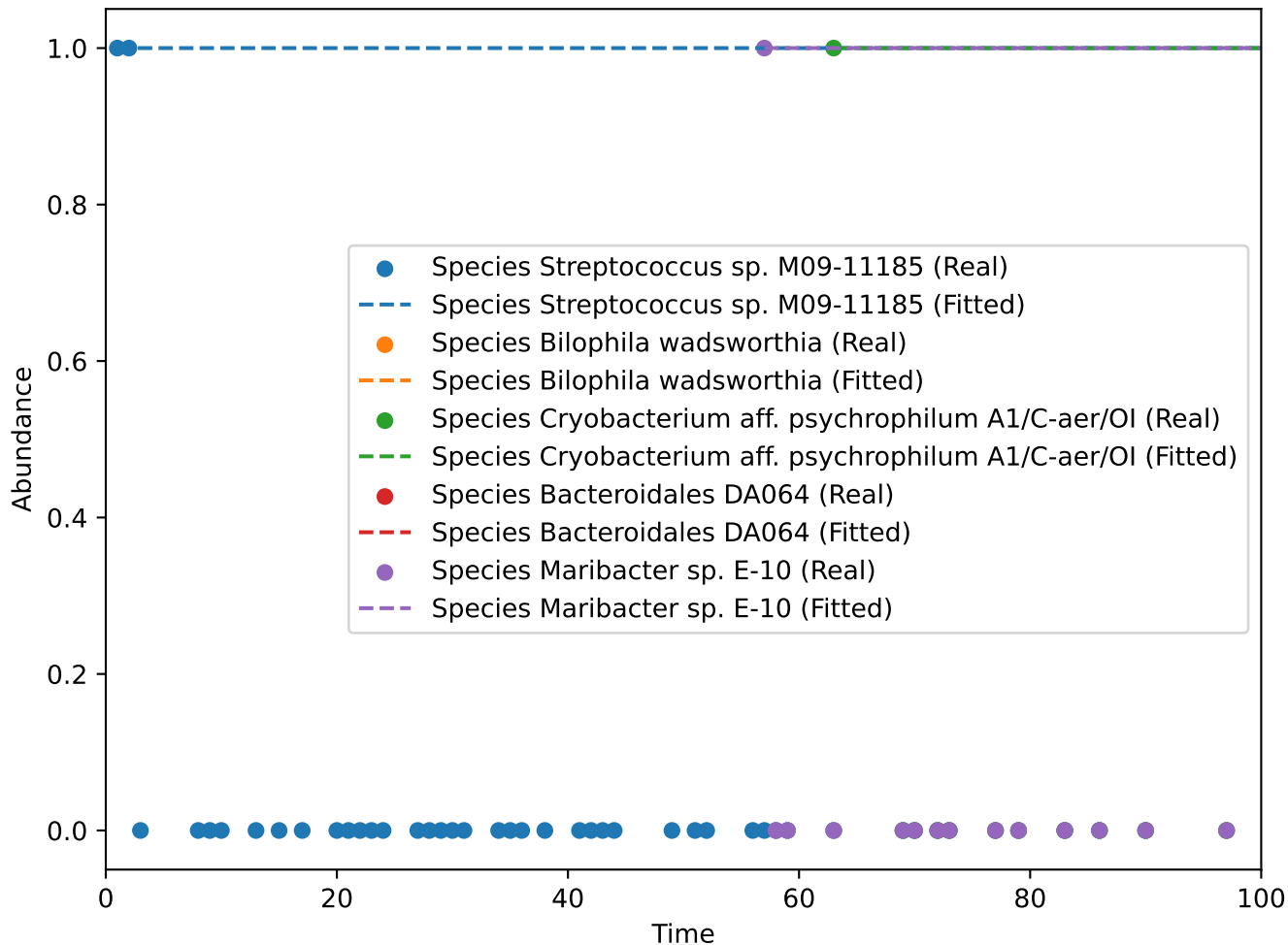
Mouse 5 - Species Fit



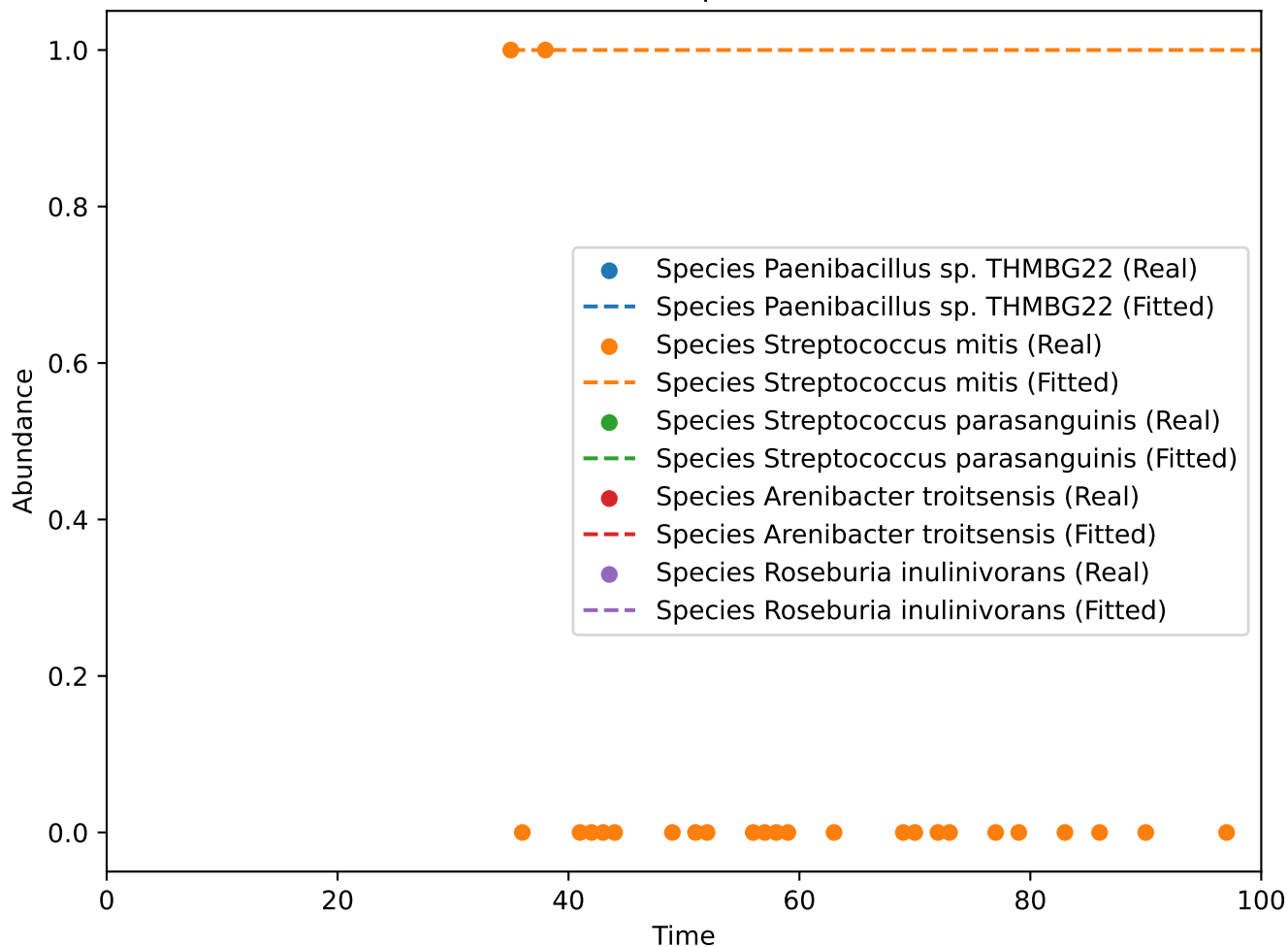
Mouse 5 - Species Fit



● Species Streptococcus sp. M09-11185 (Real)
 --- Species Streptococcus sp. M09-11185 (Fitted)
 ● Species Bilophila wadsworthia (Real)
 --- Species Bilophila wadsworthia (Fitted)
 ● Species Cryobacterium aff. psychrophilum A1/C-aer/OI (Real)
 --- Species Cryobacterium aff. psychrophilum A1/C-aer/OI (Fitted)
 ● Species Bacteroidales DA064 (Real)
 --- Species Bacteroidales DA064 (Fitted)
 ● Species Maribacter sp. E-10 (Real)
 --- Species Maribacter sp. E-10 (Fitted)



Mouse 5 - Species Fit



Species Sphingobacterium sp. LMG 8346 (Real)

Species Sphingobacterium sp. LMG 8346 (Fitted)

Species Clostridium citroniae (Real)

Species Clostridium citroniae (Fitted)

Species Clostridium sp. D5 (Real)

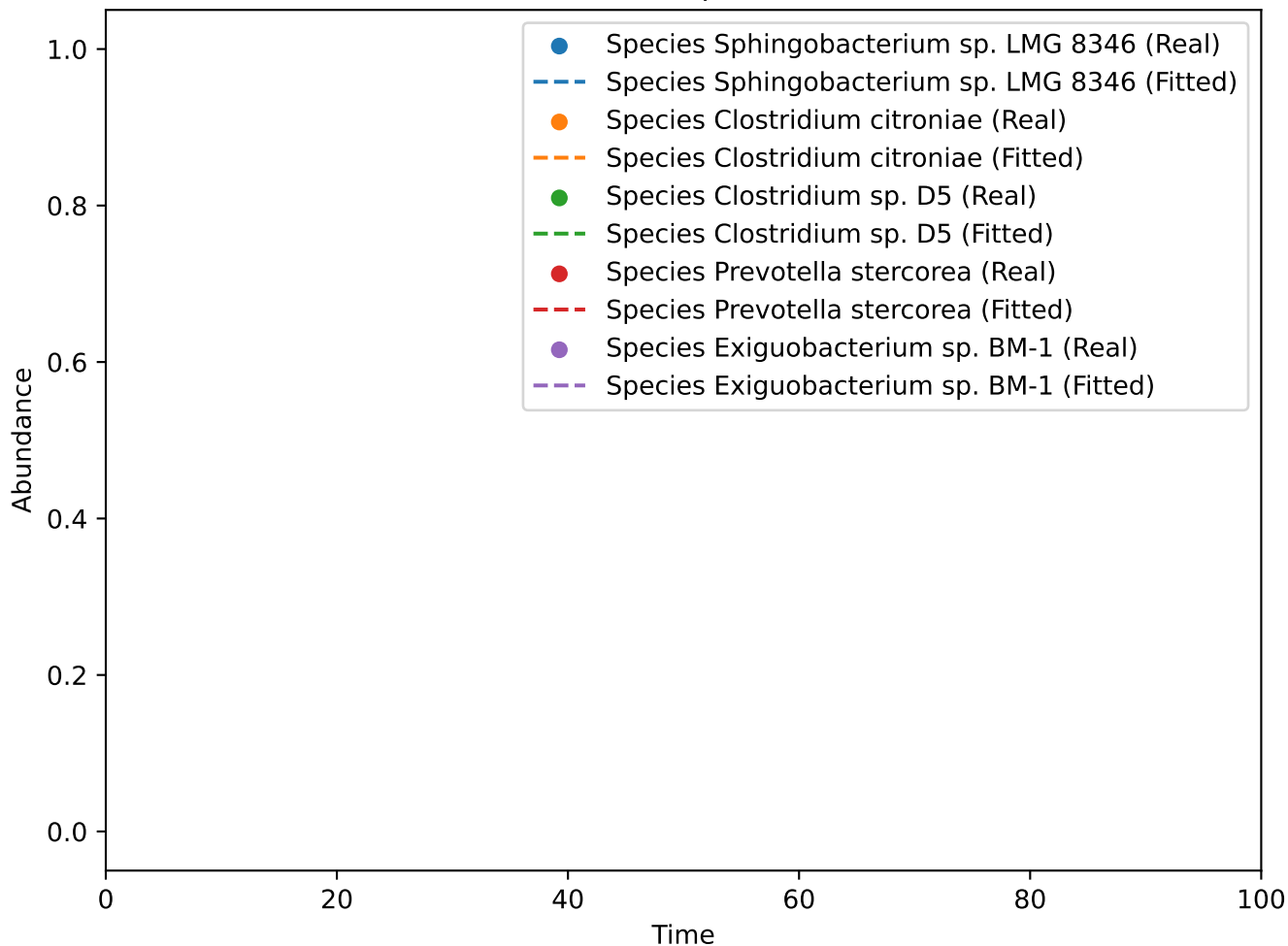
Species Clostridium sp. D5 (Fitted)

Species Prevotella stercorea (Real)

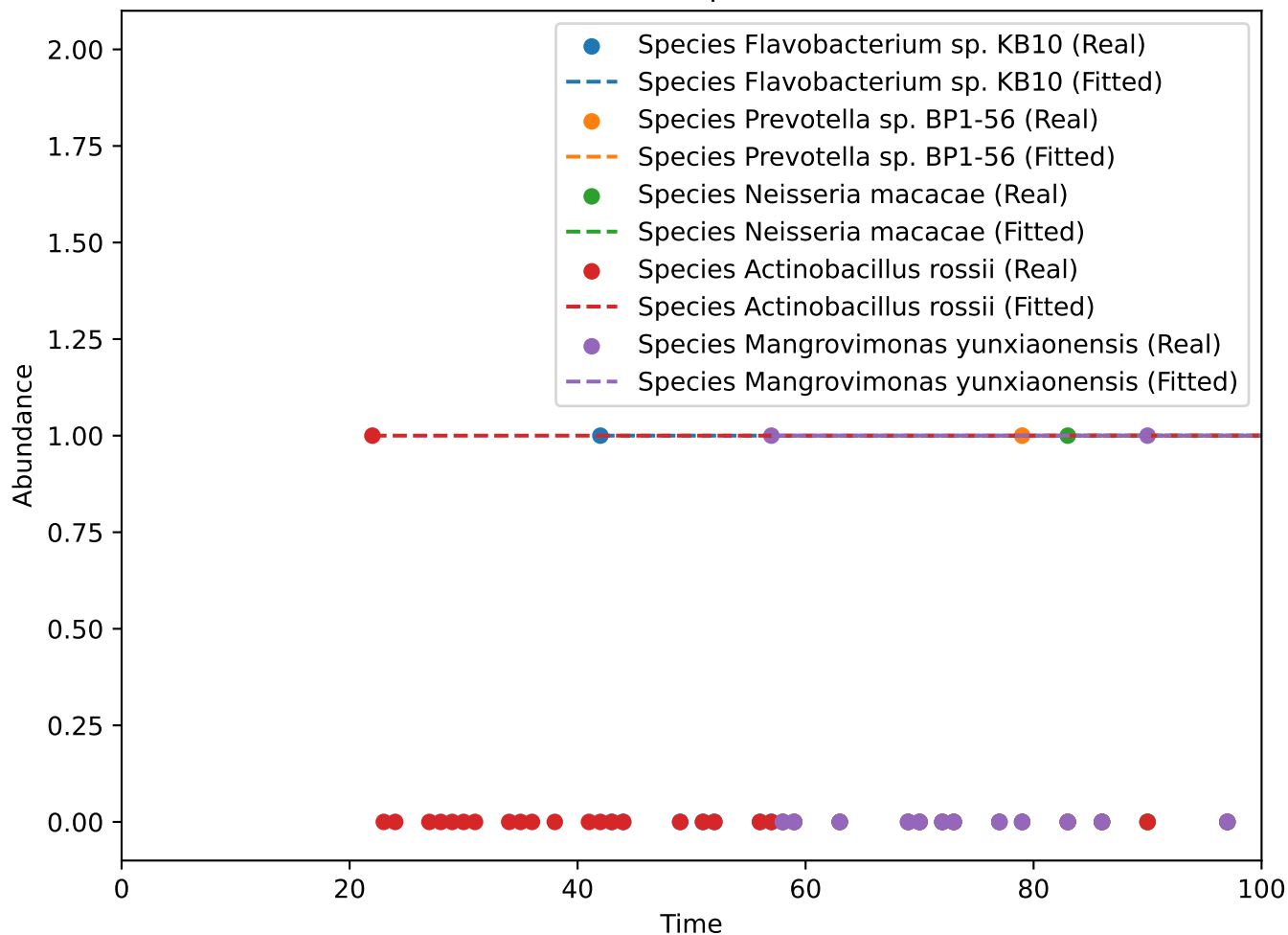
Species Prevotella stercorea (Fitted)

Species Exiguobacterium sp. BM-1 (Real)

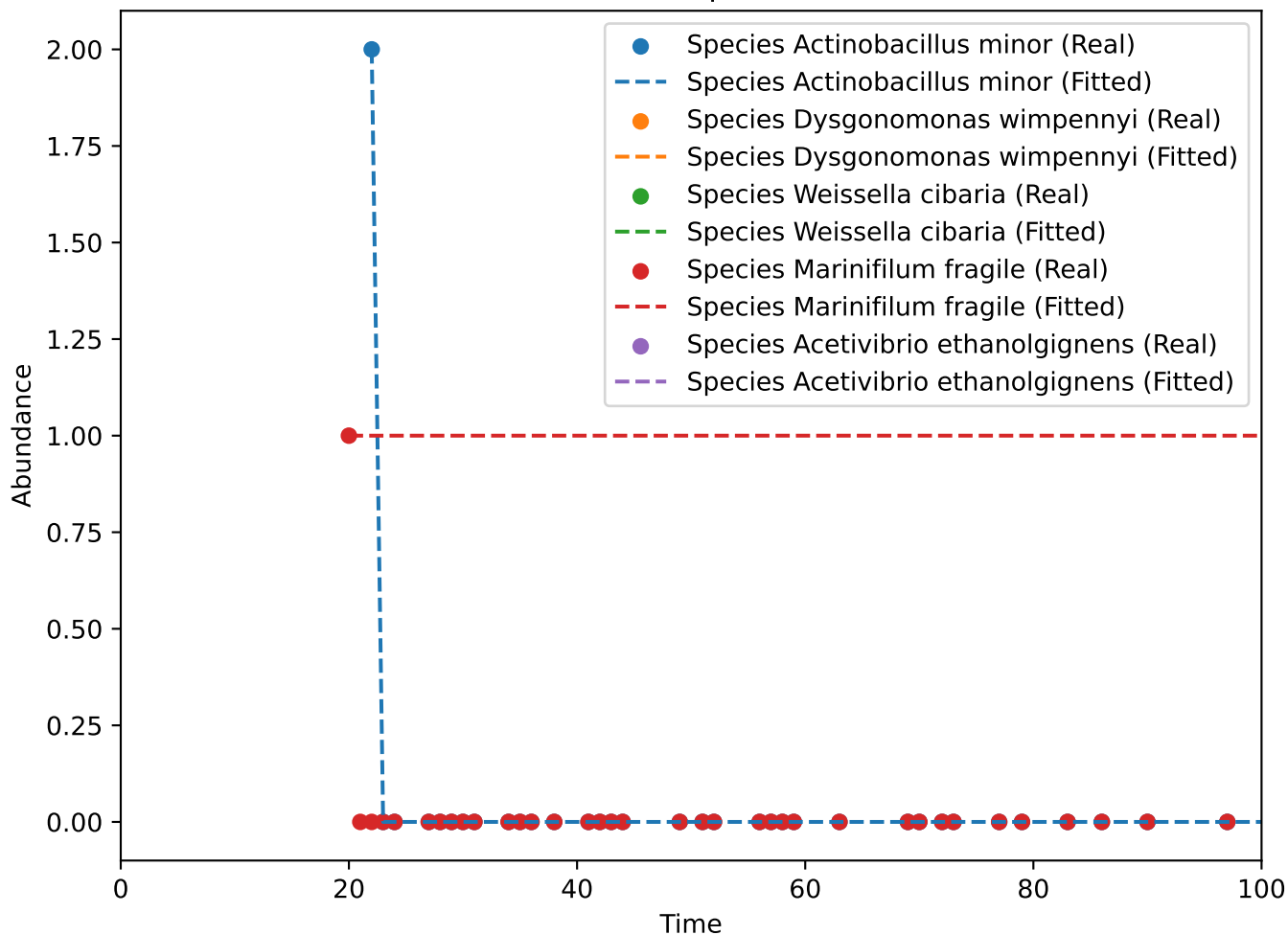
Species Exiguobacterium sp. BM-1 (Fitted)



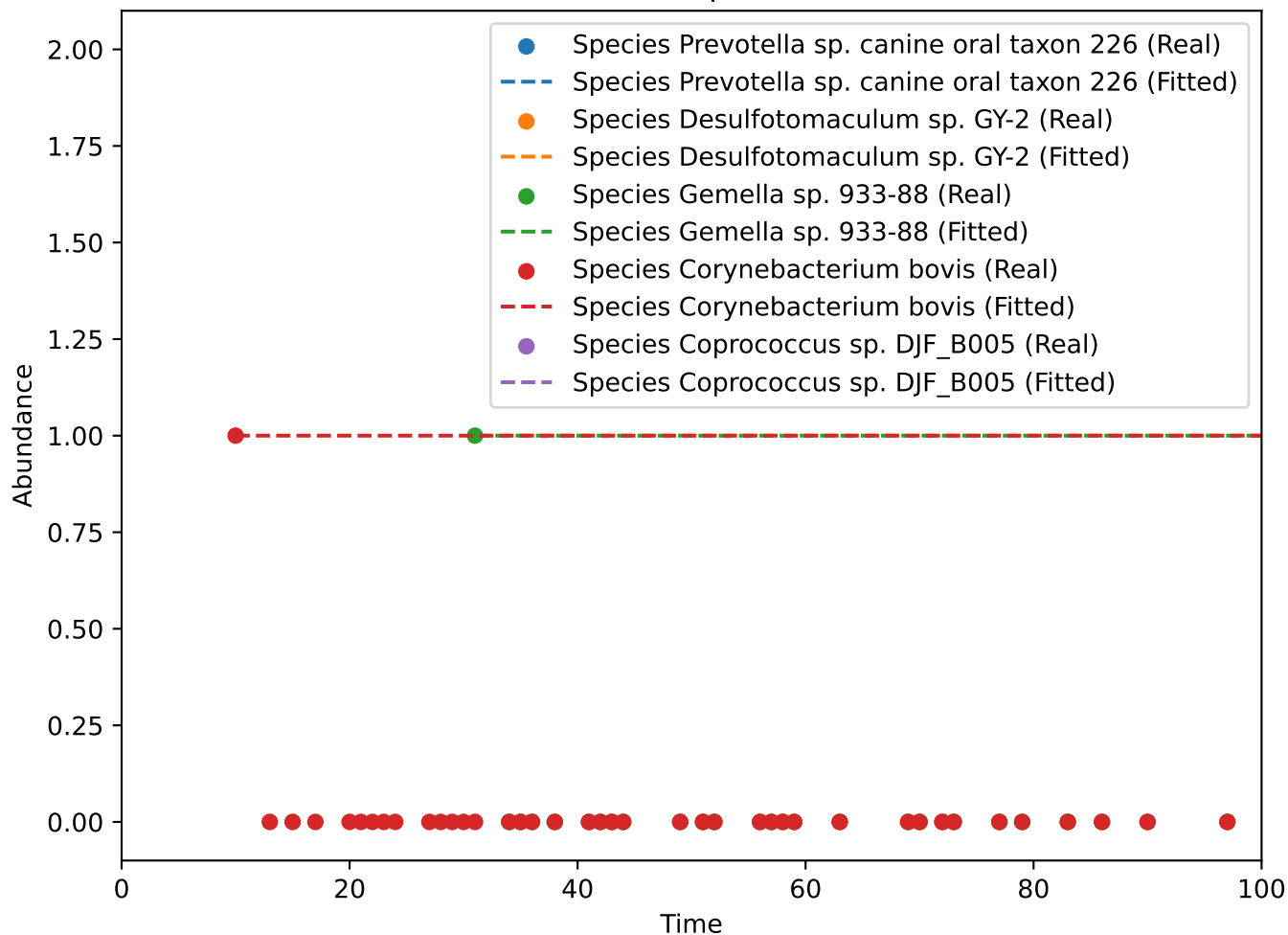
Mouse 5 - Species Fit

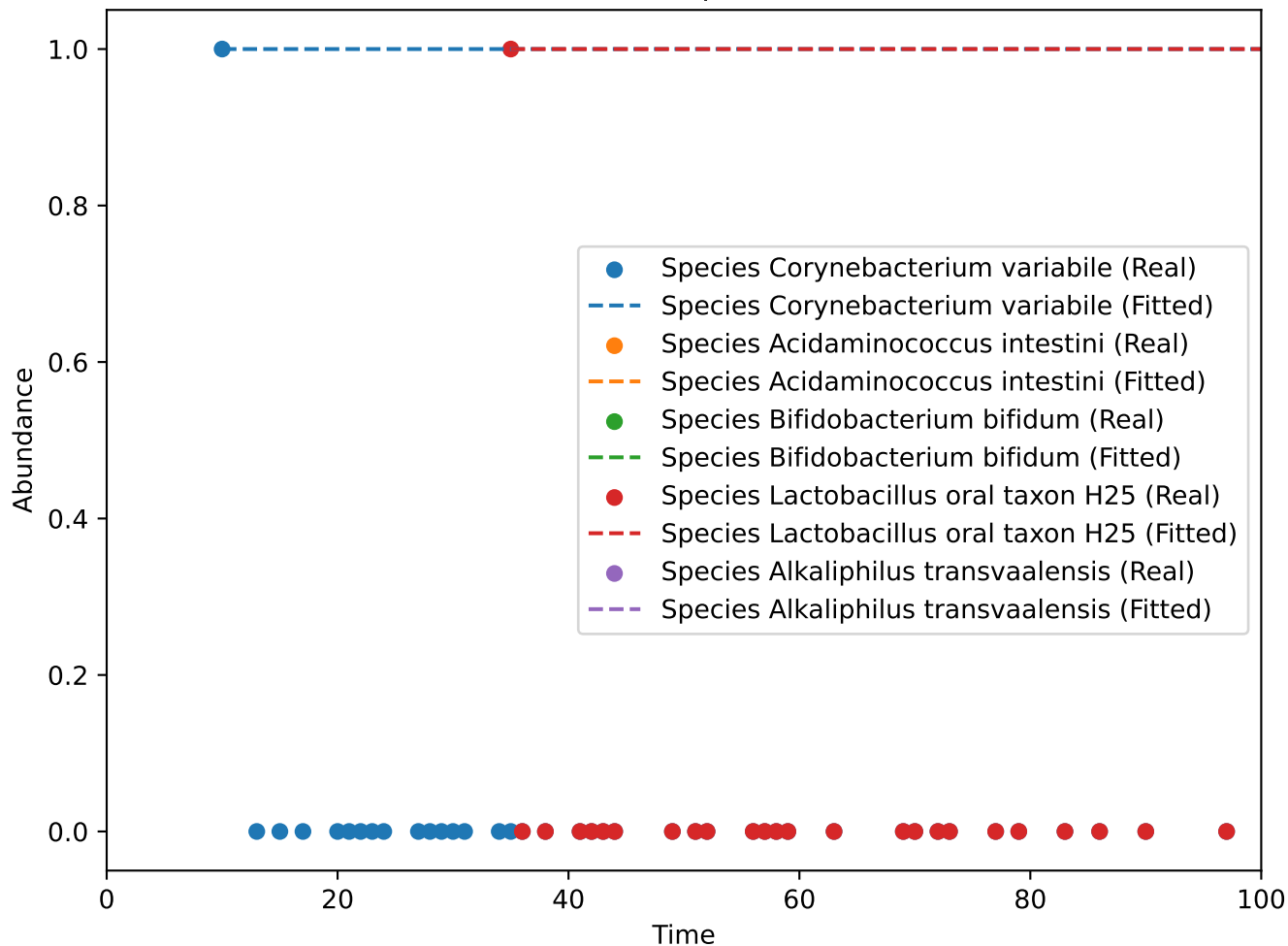


Mouse 5 - Species Fit

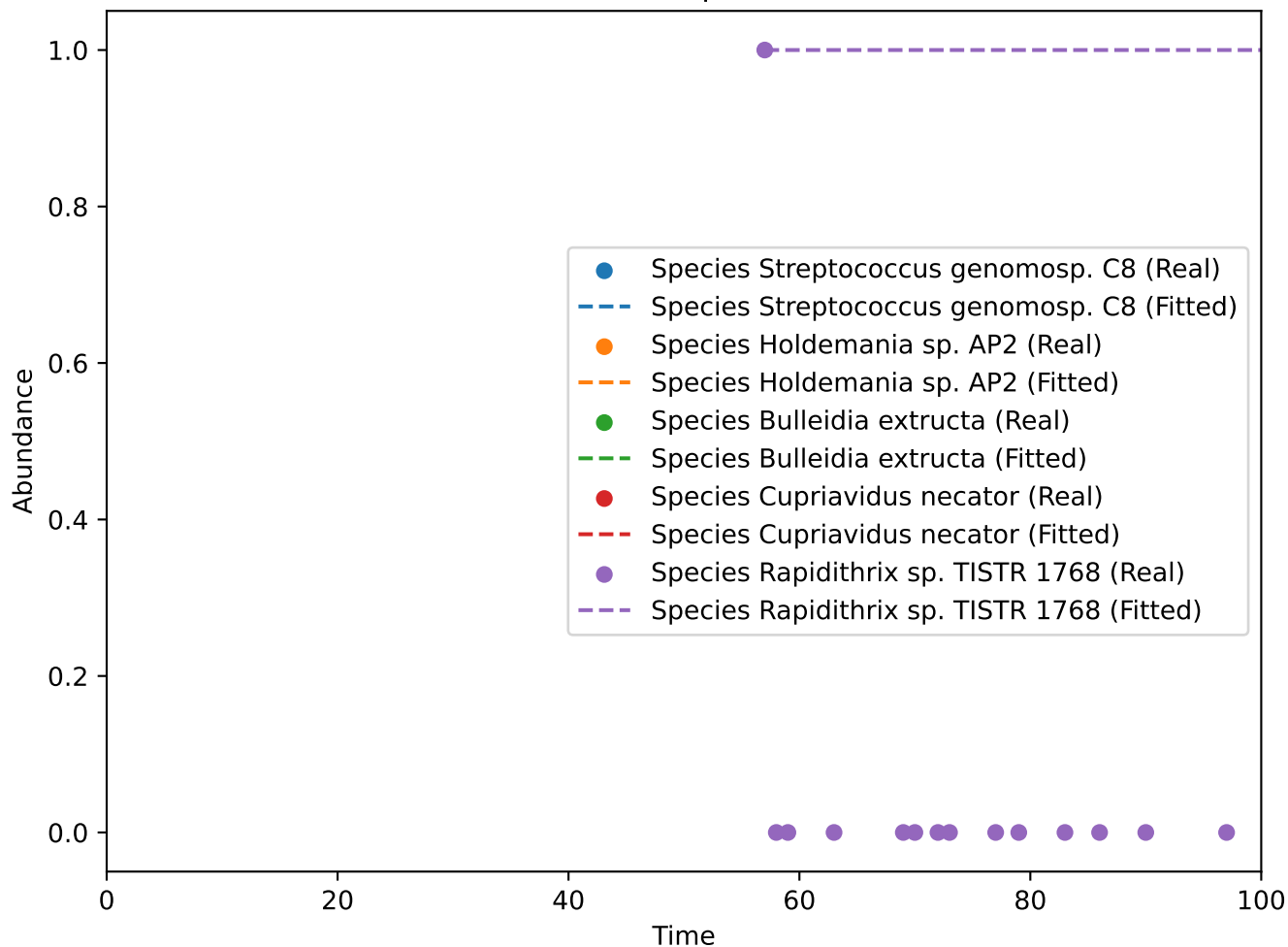


Mouse 5 - Species Fit





Mouse 5 - Species Fit



Species Desulfonatronum thiodismutans (Real)

Species Desulfonatronum thiodismutans (Fitted)

Species Campylobacter avium (Real)

Species Campylobacter avium (Fitted)

Species Staphylococcus succinus (Real)

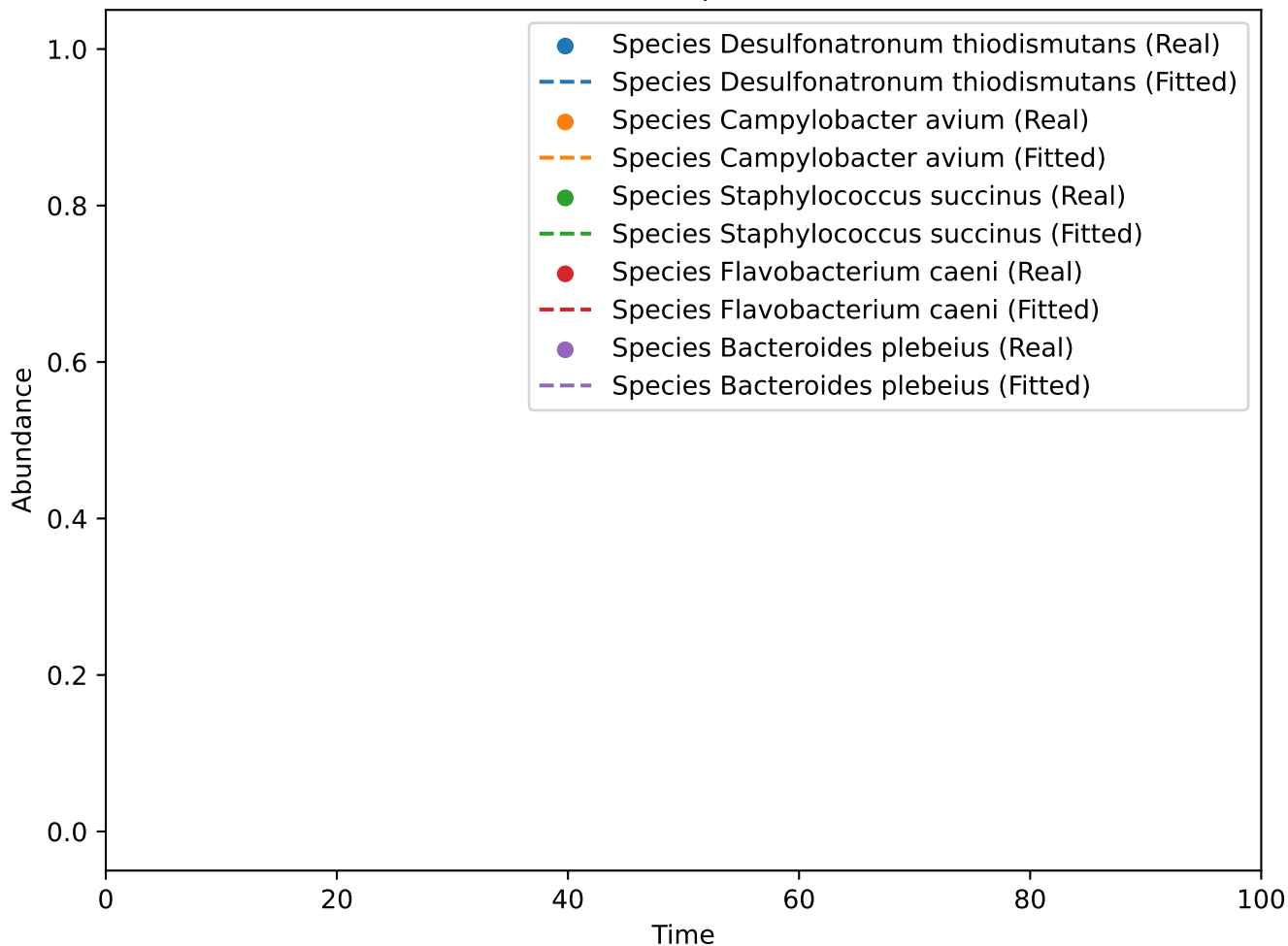
Species Staphylococcus succinus (Fitted)

Species Flavobacterium caeni (Real)

Species Flavobacterium caeni (Fitted)

Species Bacteroides plebeius (Real)

Species Bacteroides plebeius (Fitted)



Species Terrimonas sp. YJ03 (Real)

Species Terrimonas sp. YJ03 (Fitted)

Species Streptococcus equinus (Real)

Species Streptococcus equinus (Fitted)

Species Delftia acidovorans (Real)

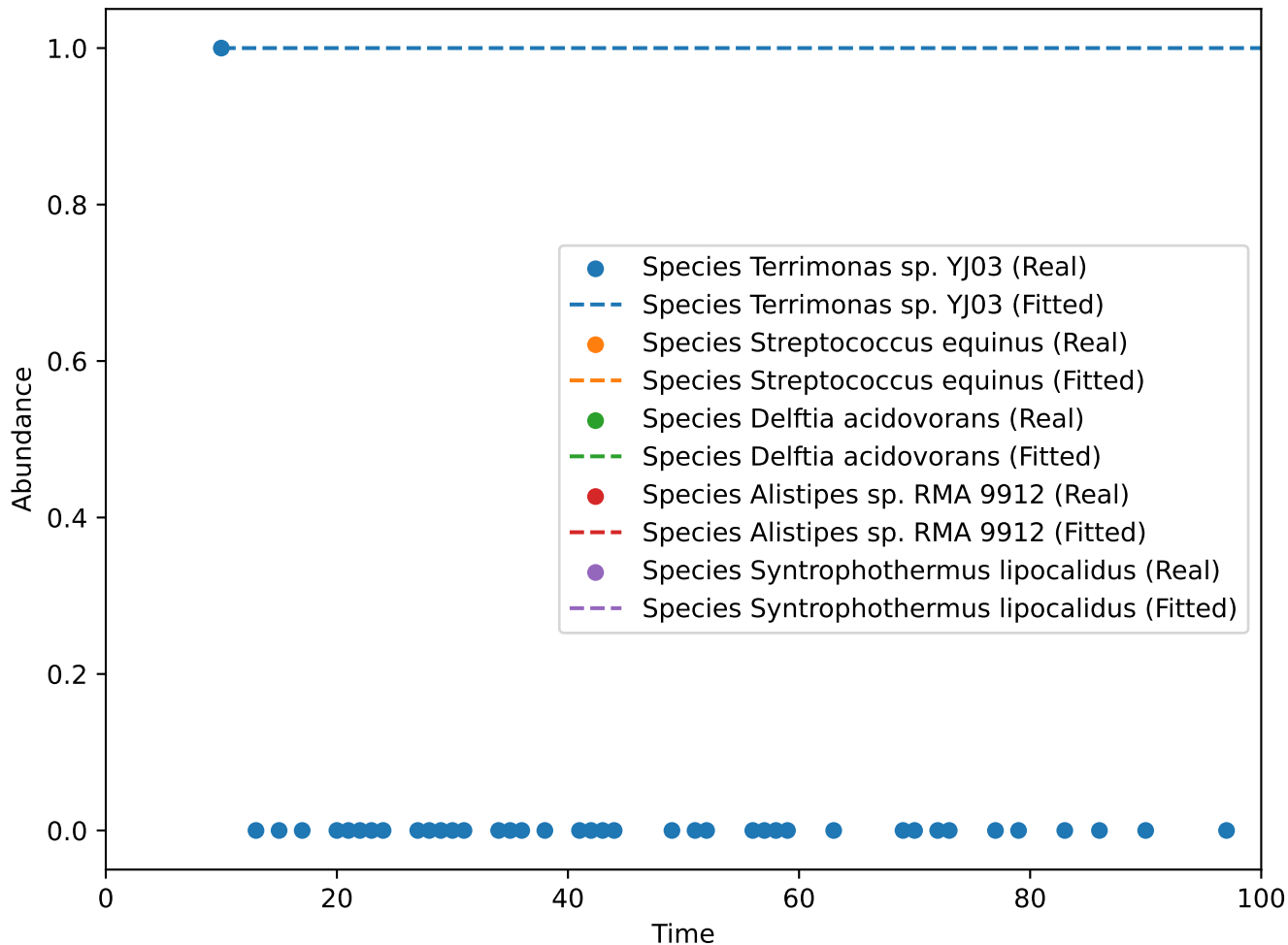
Species Delftia acidovorans (Fitted)

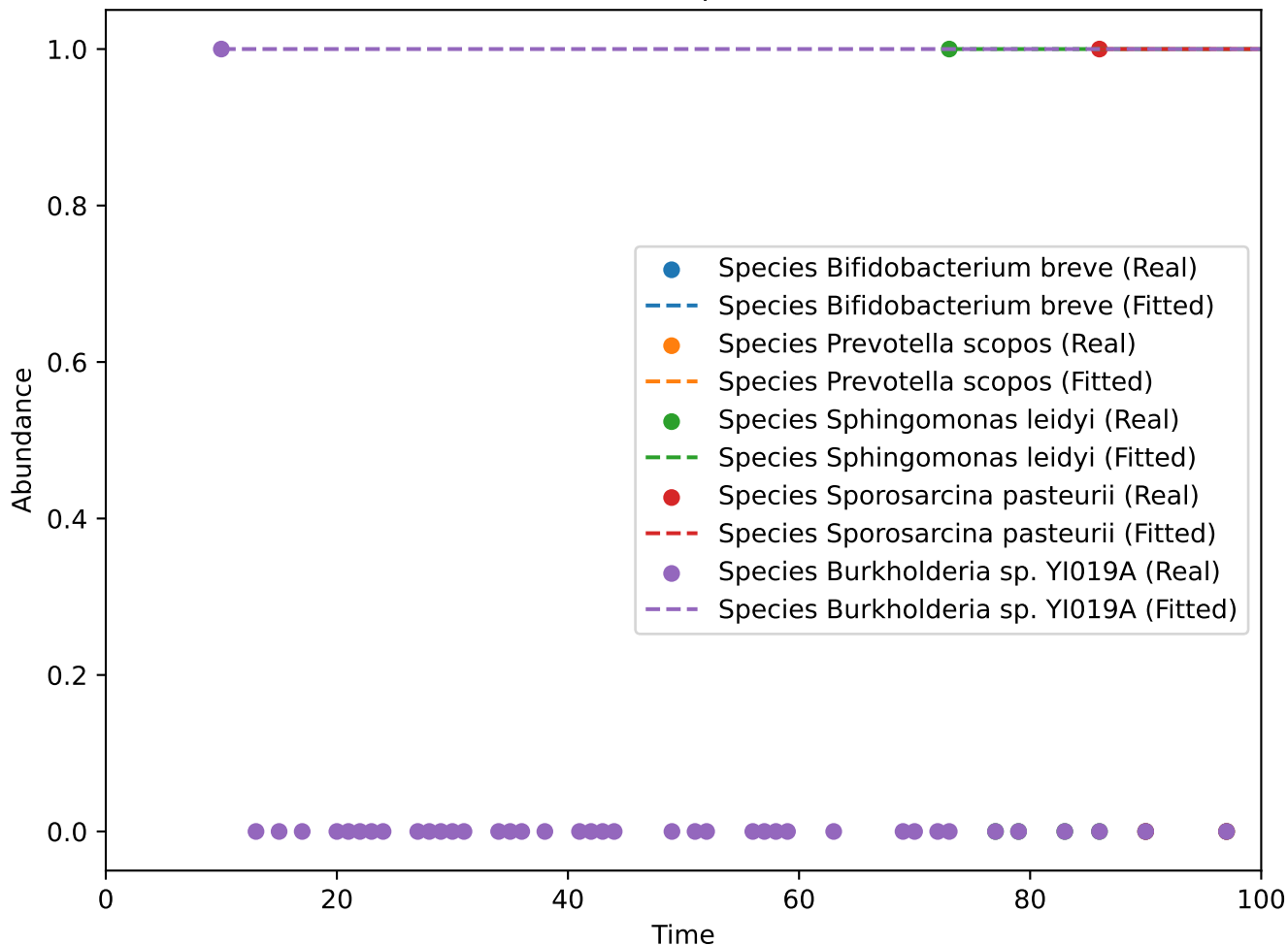
Species Alistipes sp. RMA 9912 (Real)

Species Alistipes sp. RMA 9912 (Fitted)

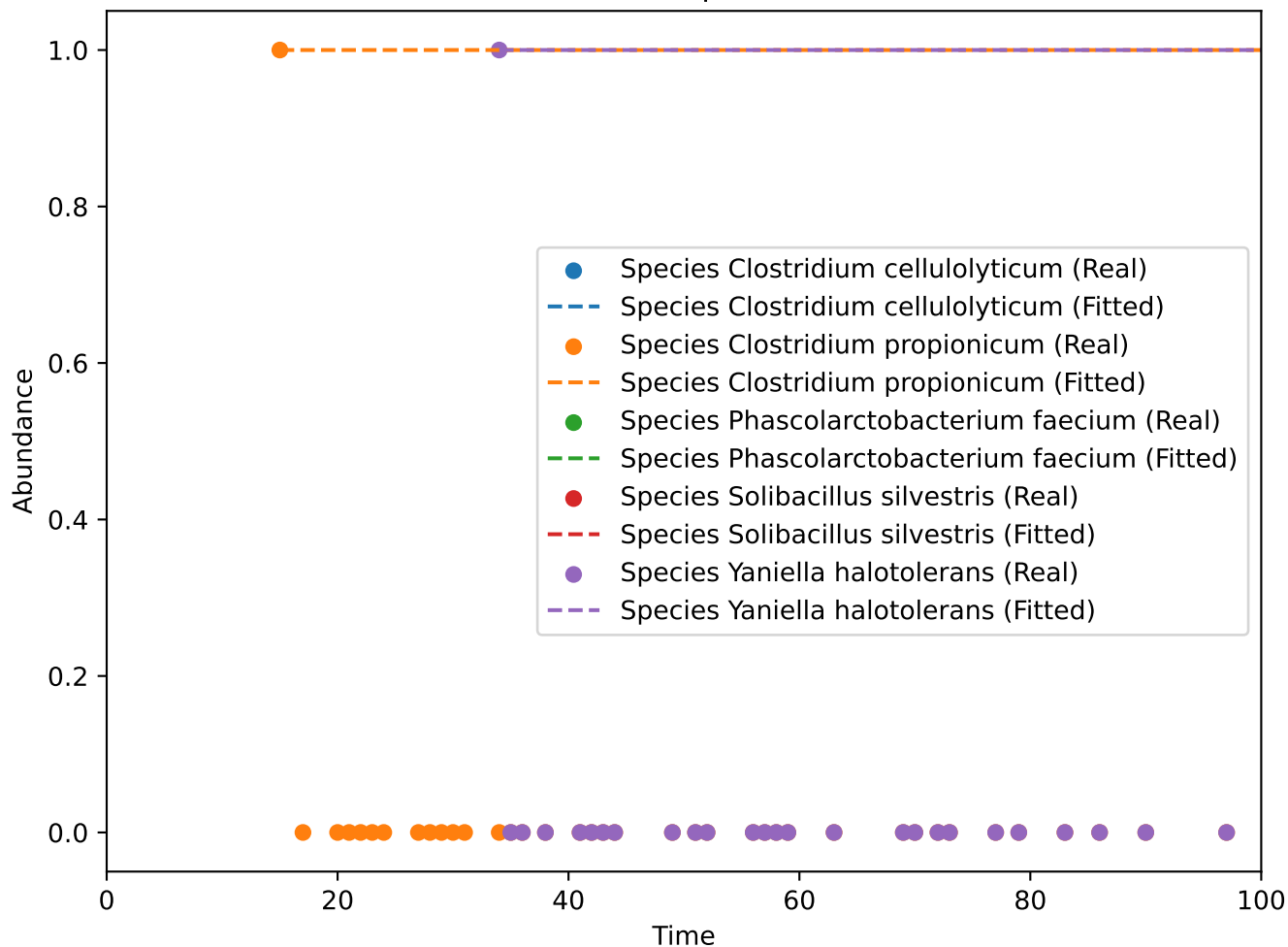
Species Syntrophothermus lipocalidus (Real)

Species Syntrophothermus lipocalidus (Fitted)





Mouse 5 - Species Fit



Species Streptococcus sp. I-P16 (Real)

Species Streptococcus sp. I-P16 (Fitted)

Species Algoriphagus antarcticus (Real)

Species Algoriphagus antarcticus (Fitted)

Species [Clostridium] innocuum (Real)

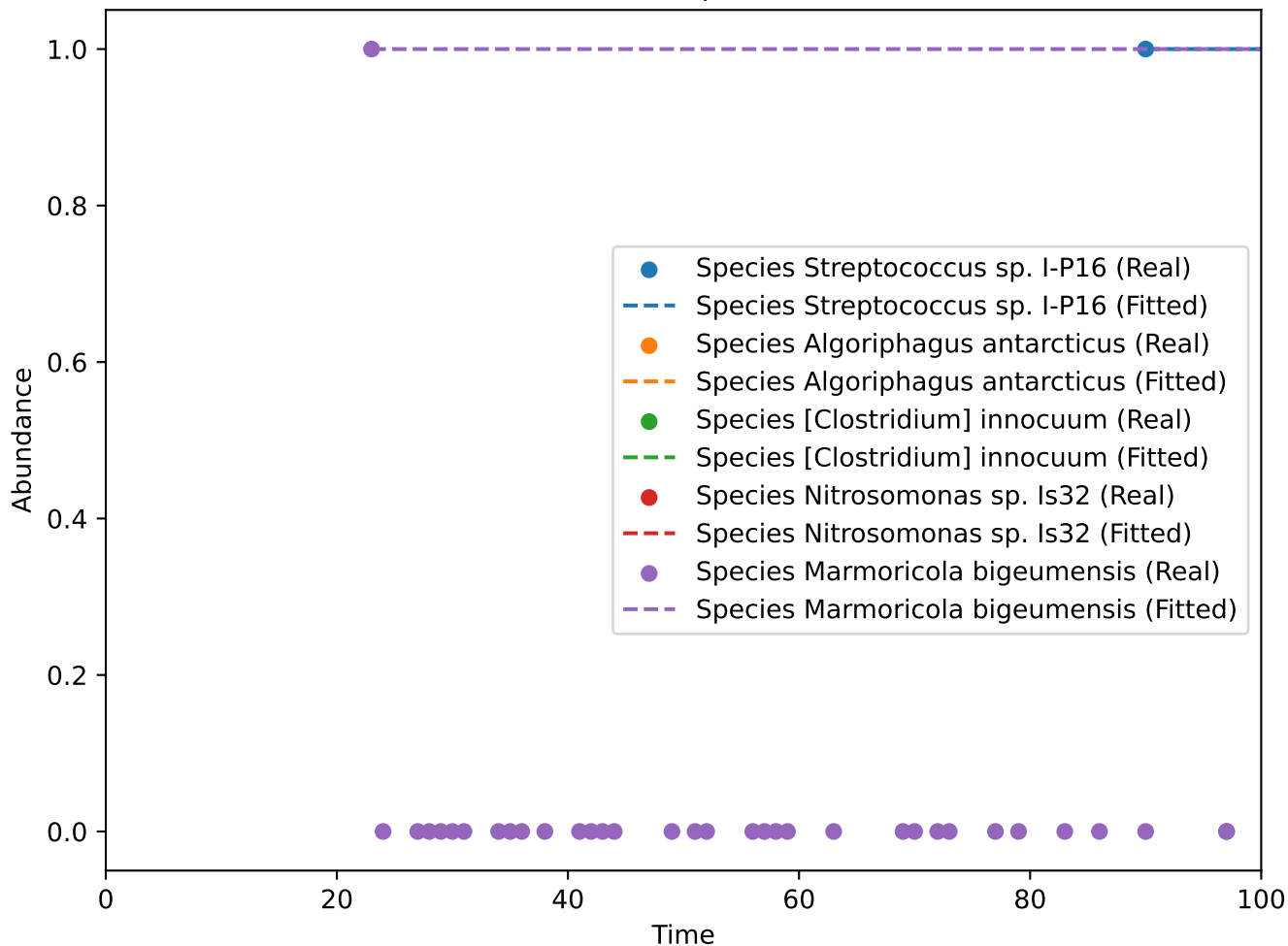
Species [Clostridium] innocuum (Fitted)

Species Nitrosomonas sp. Is32 (Real)

Species Nitrosomonas sp. Is32 (Fitted)

Species Marmoricola bigeumensis (Real)

Species Marmoricola bigeumensis (Fitted)



Species Eggerthella lenta (Real)

Species Eggerthella lenta (Fitted)

Species Streptococcus infantis (Real)

Species Streptococcus infantis (Fitted)

Species Fusobacterium periodonticum (Real)

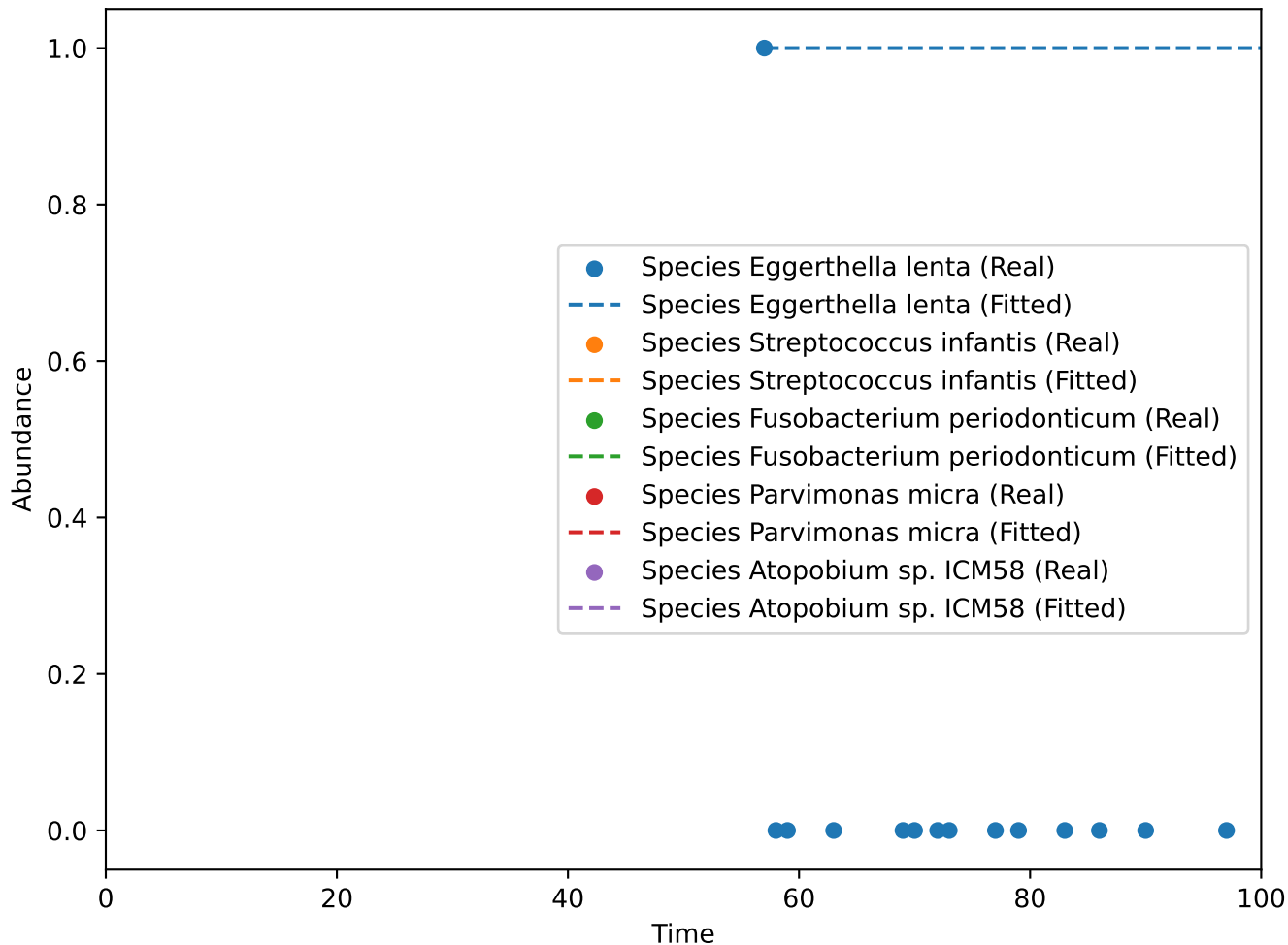
Species Fusobacterium periodonticum (Fitted)

Species Parvimonas micra (Real)

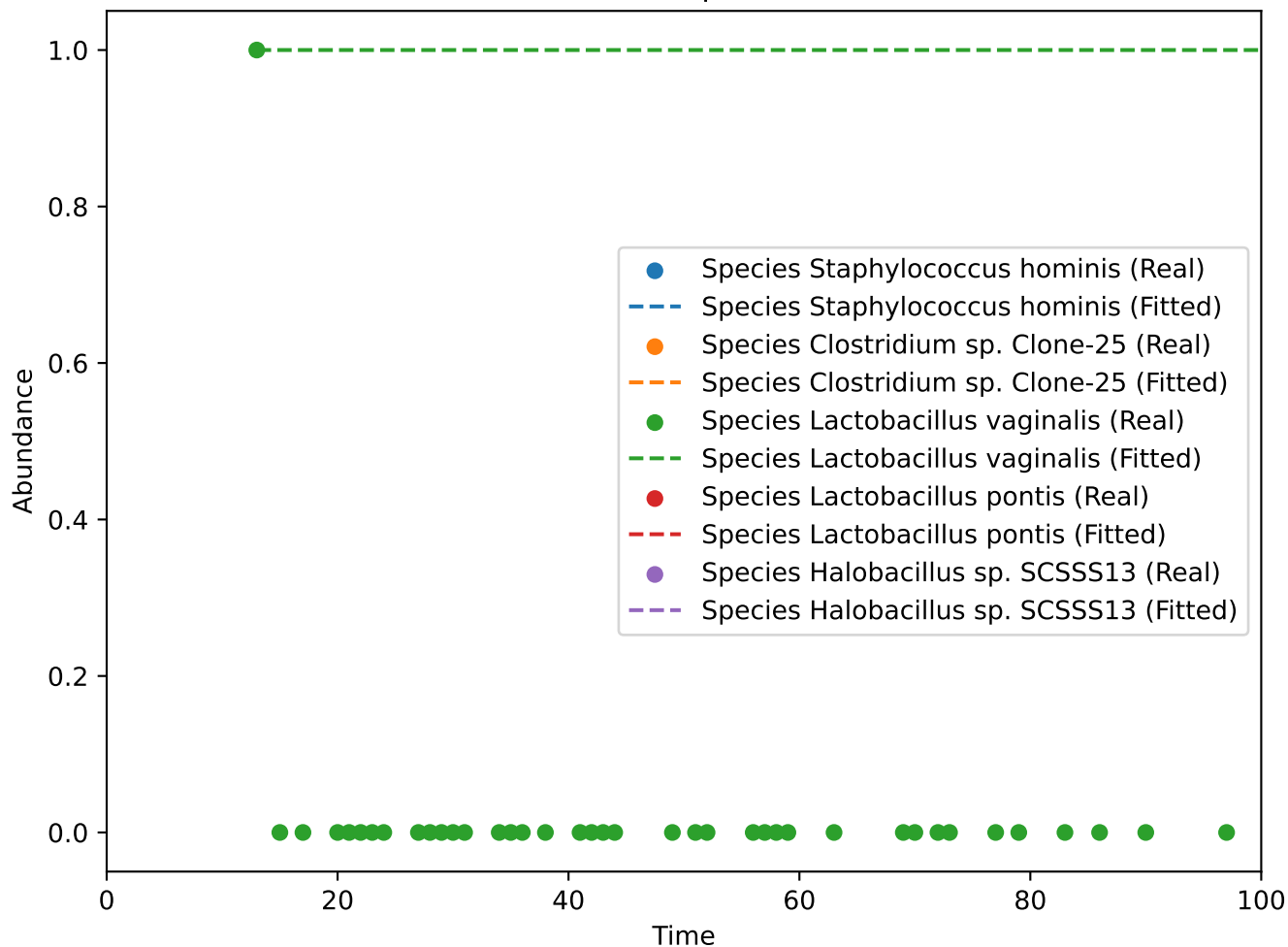
Species Parvimonas micra (Fitted)

Species Atopobium sp. ICM58 (Real)

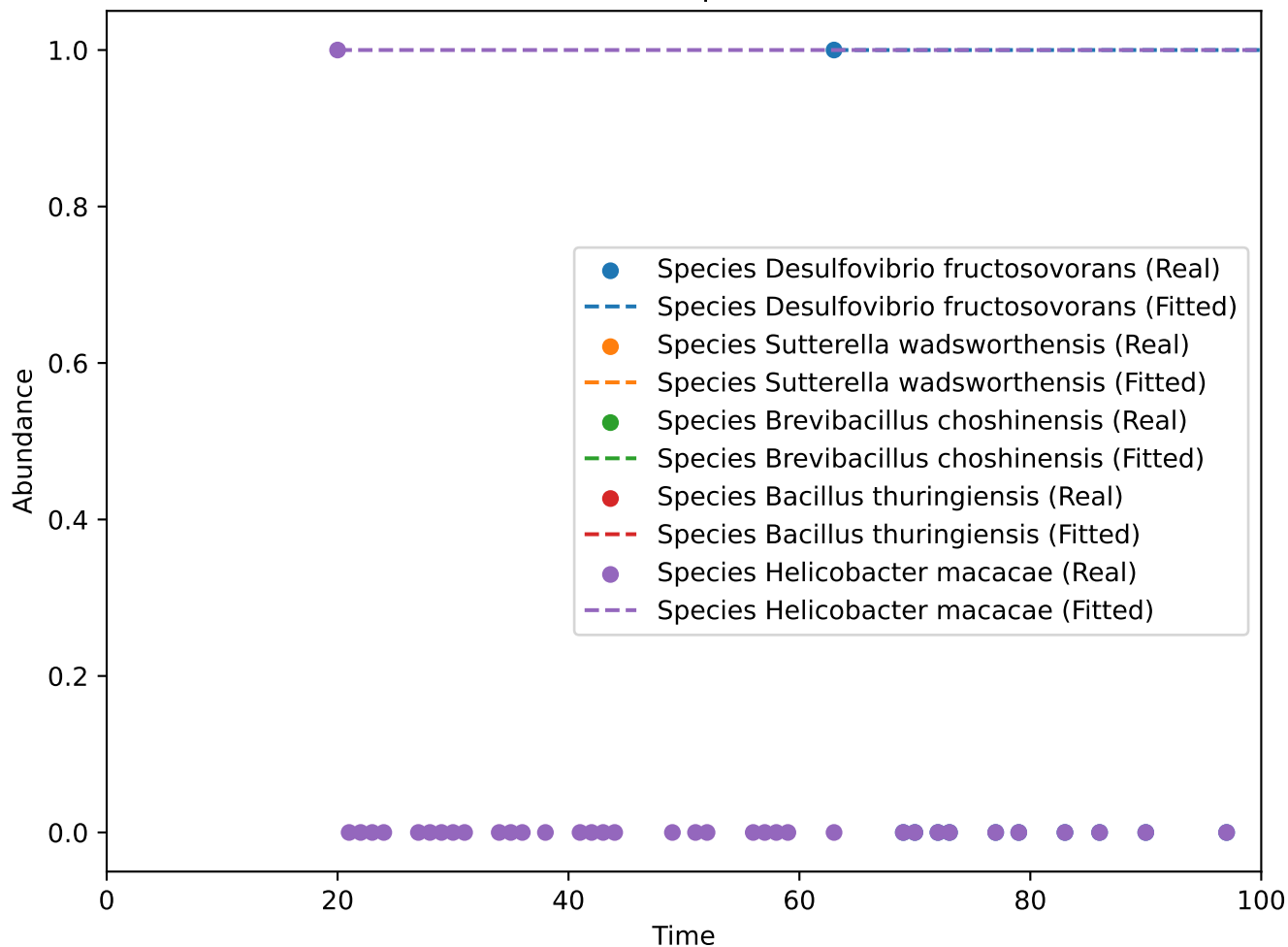
Species Atopobium sp. ICM58 (Fitted)



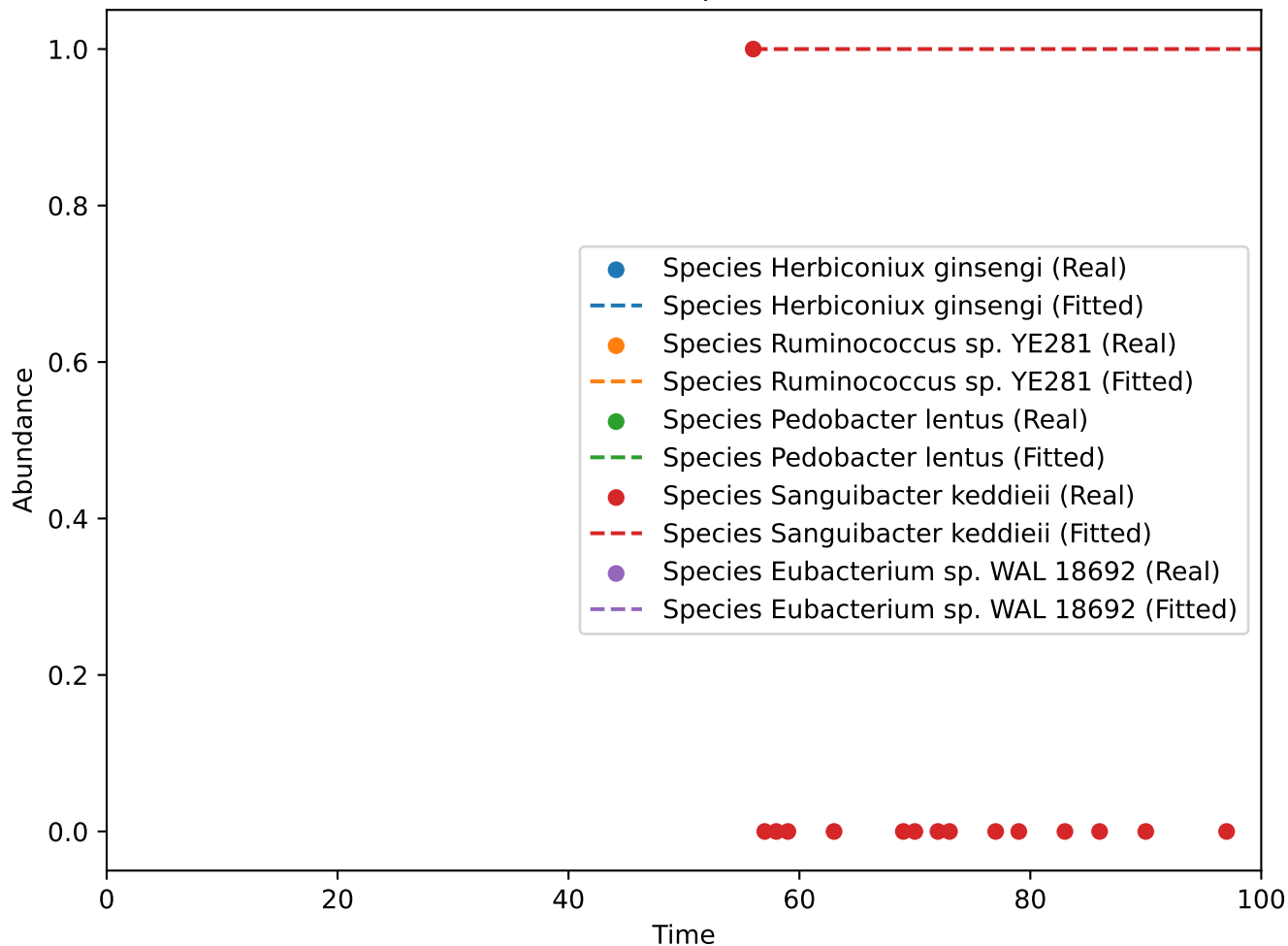
Mouse 5 - Species Fit



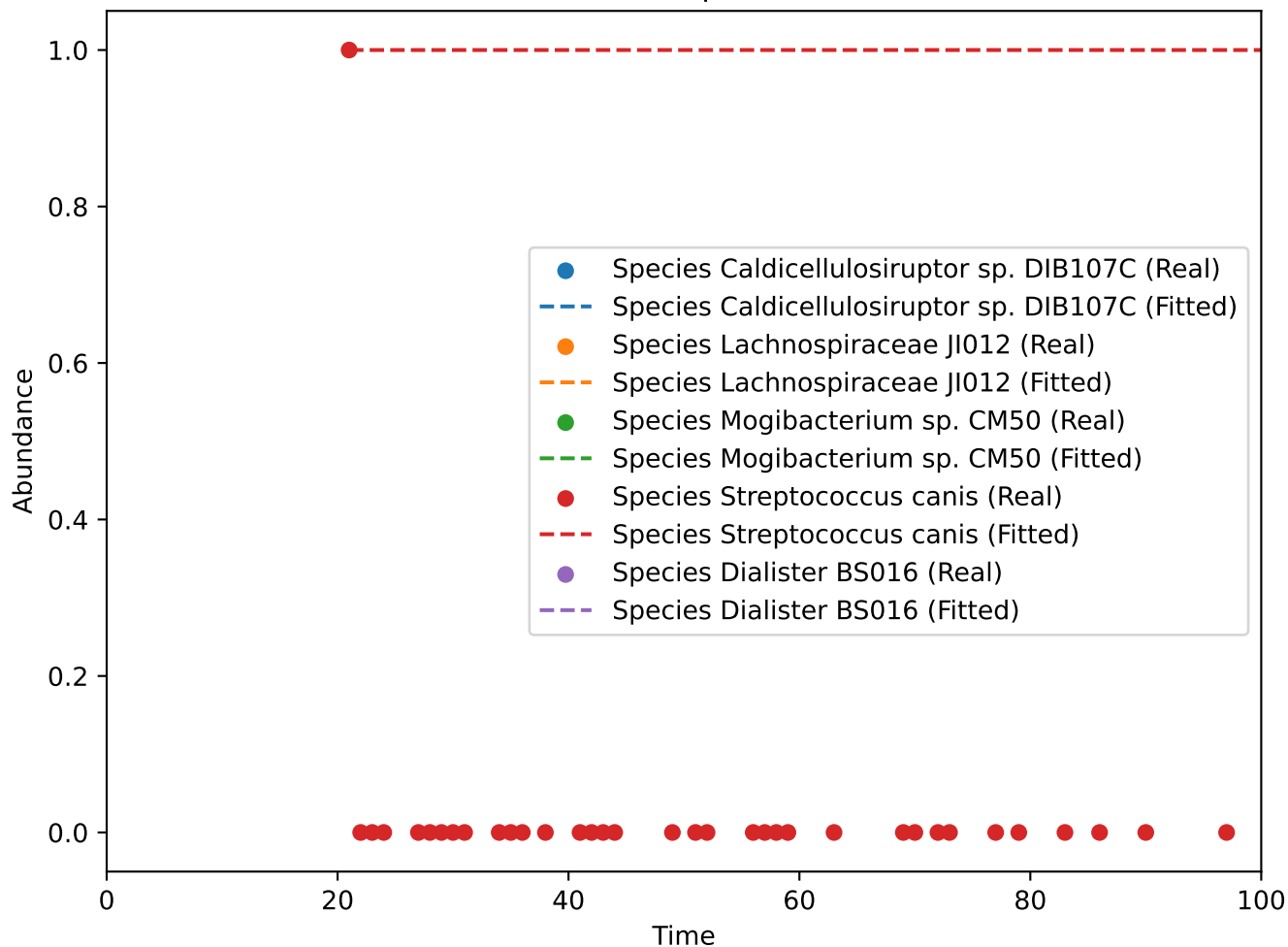
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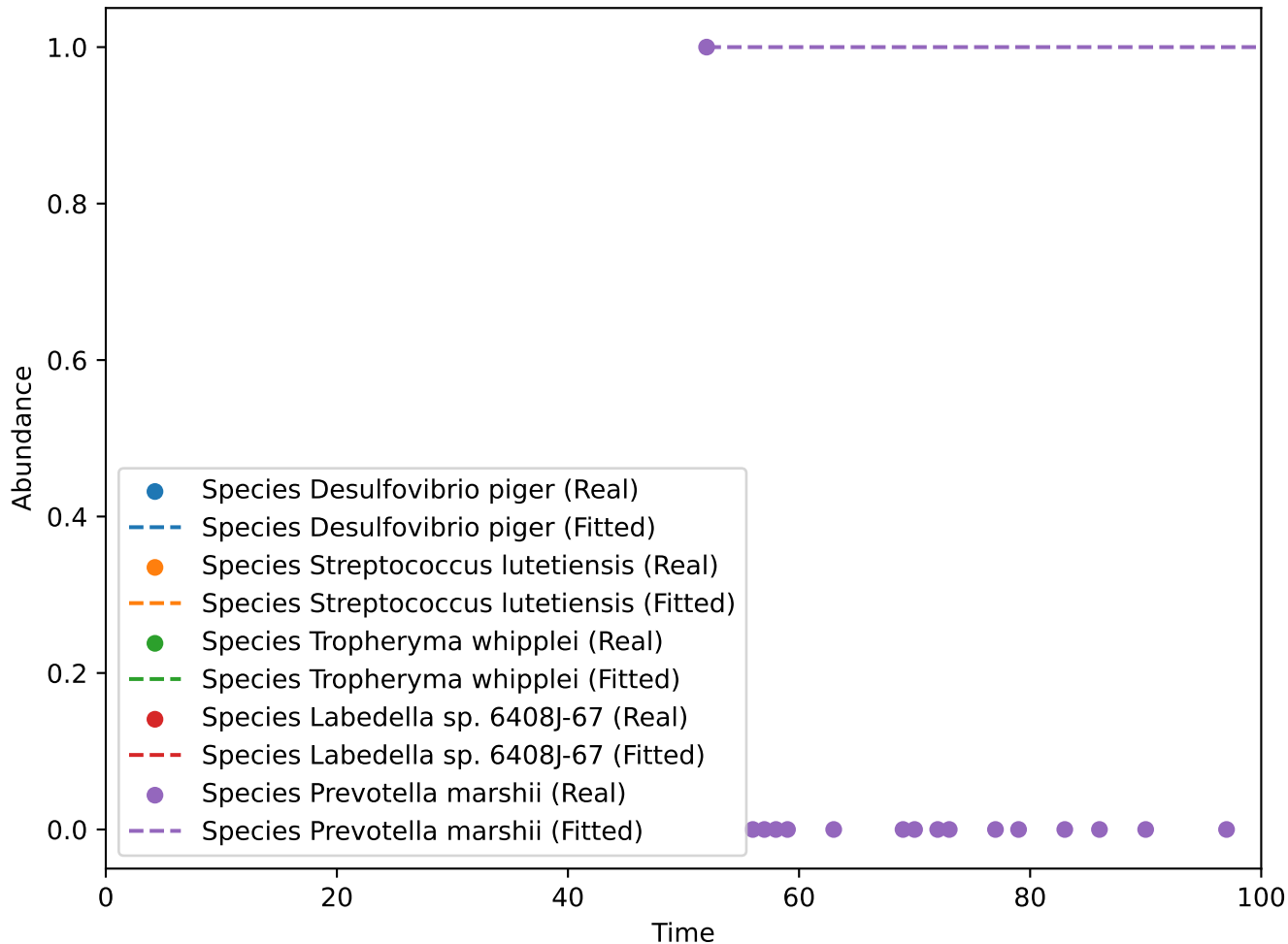


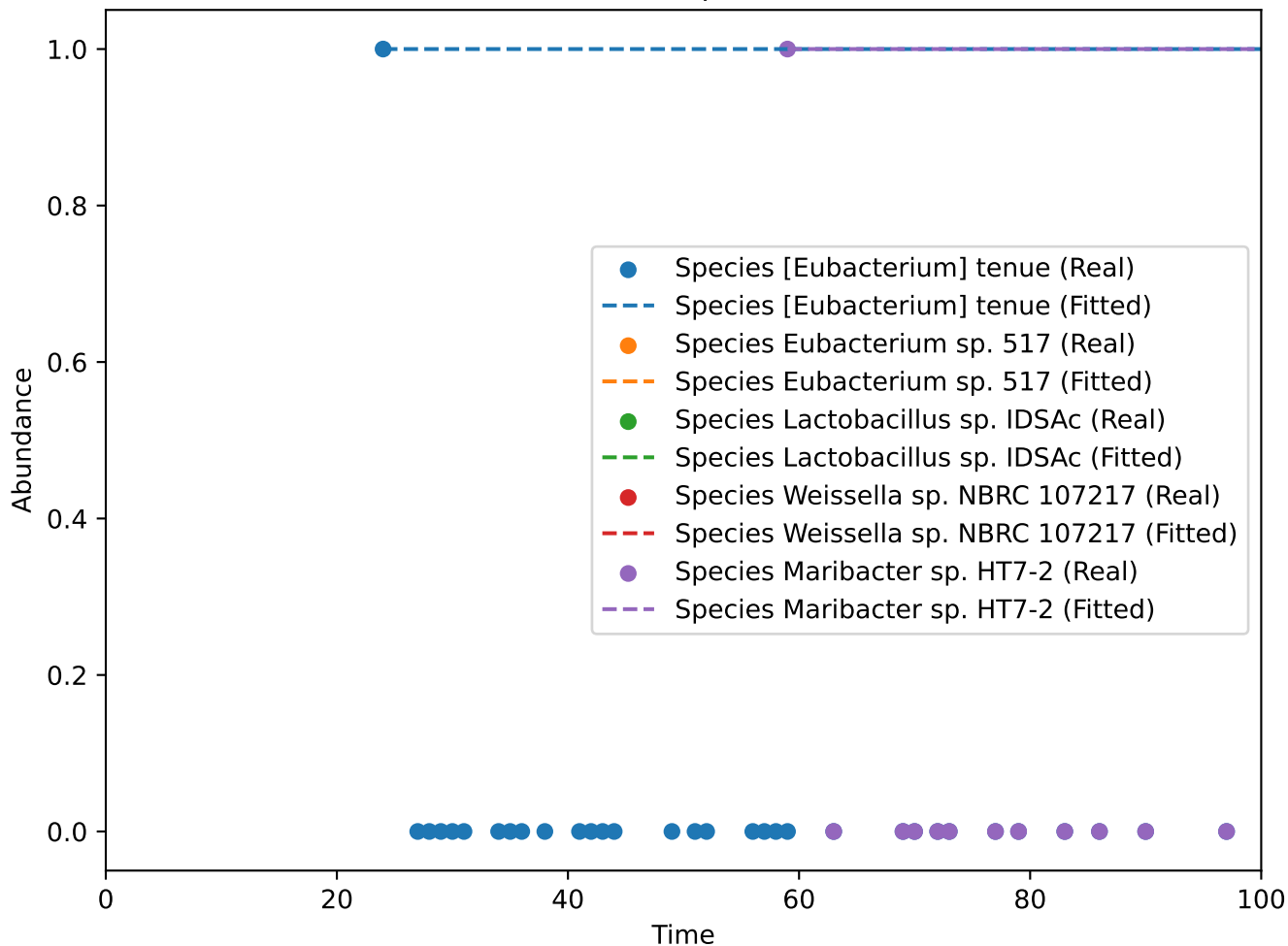
Mouse 5 - Species Fit



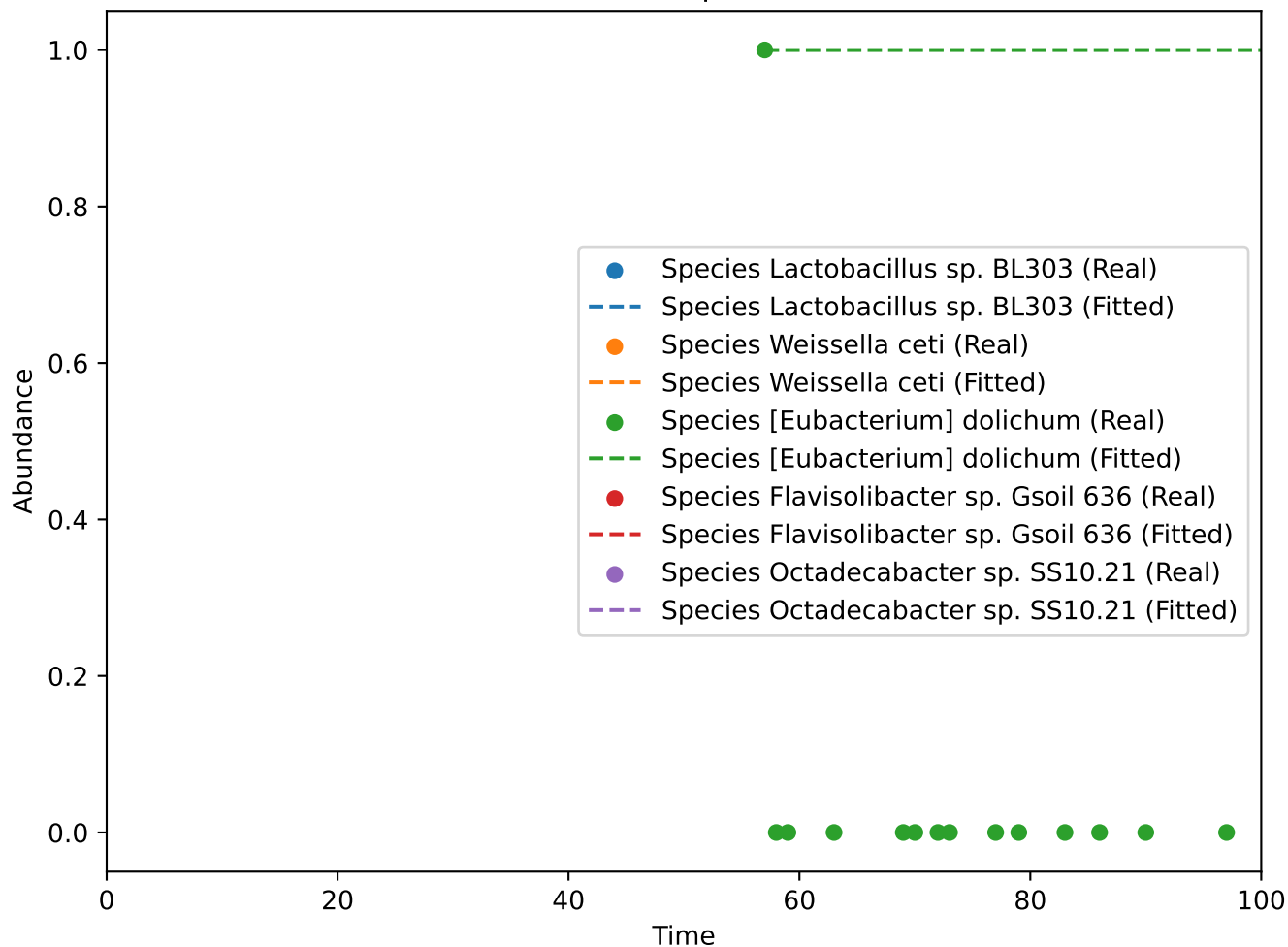
Mouse 5 - Species Fit



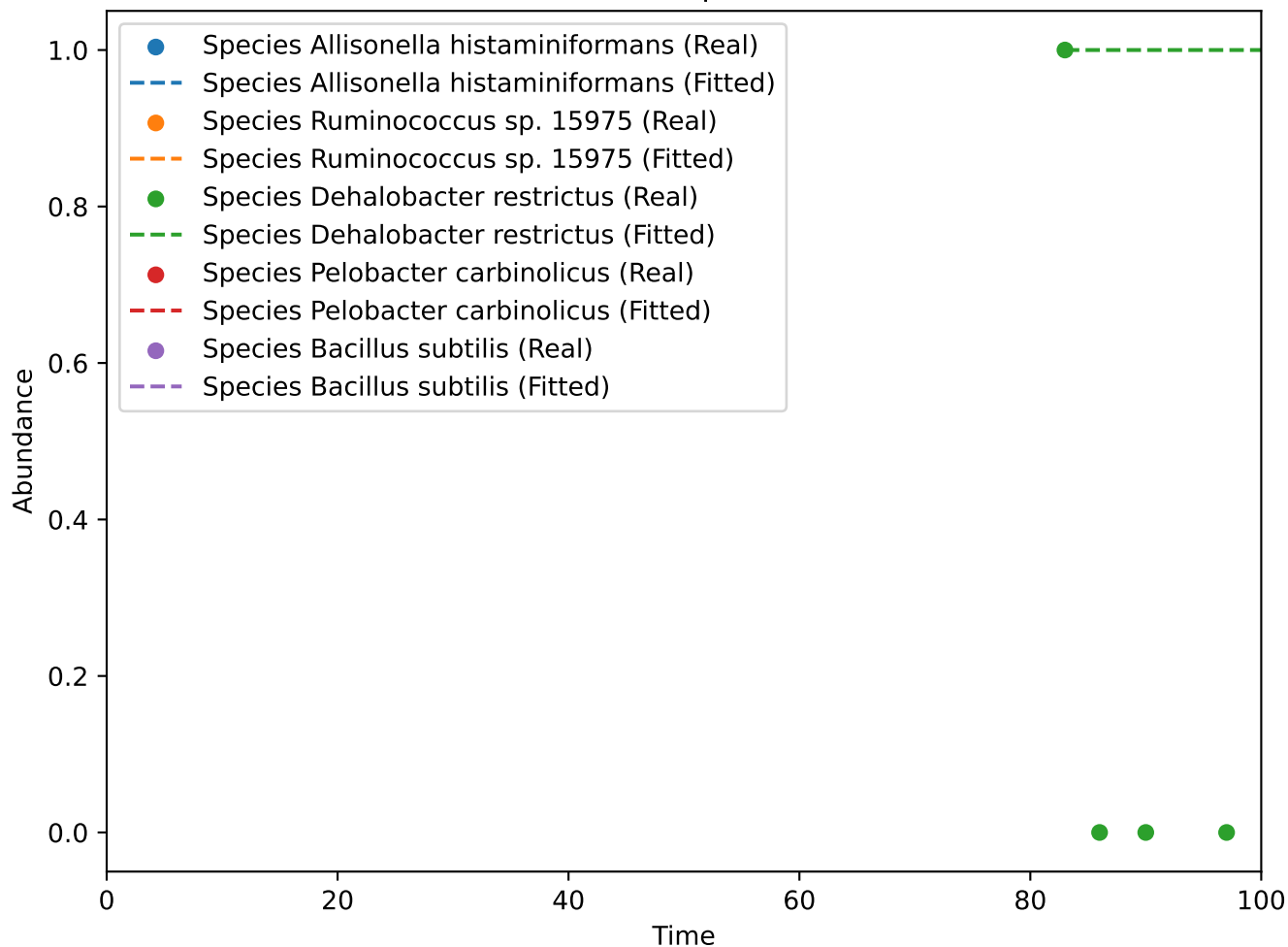




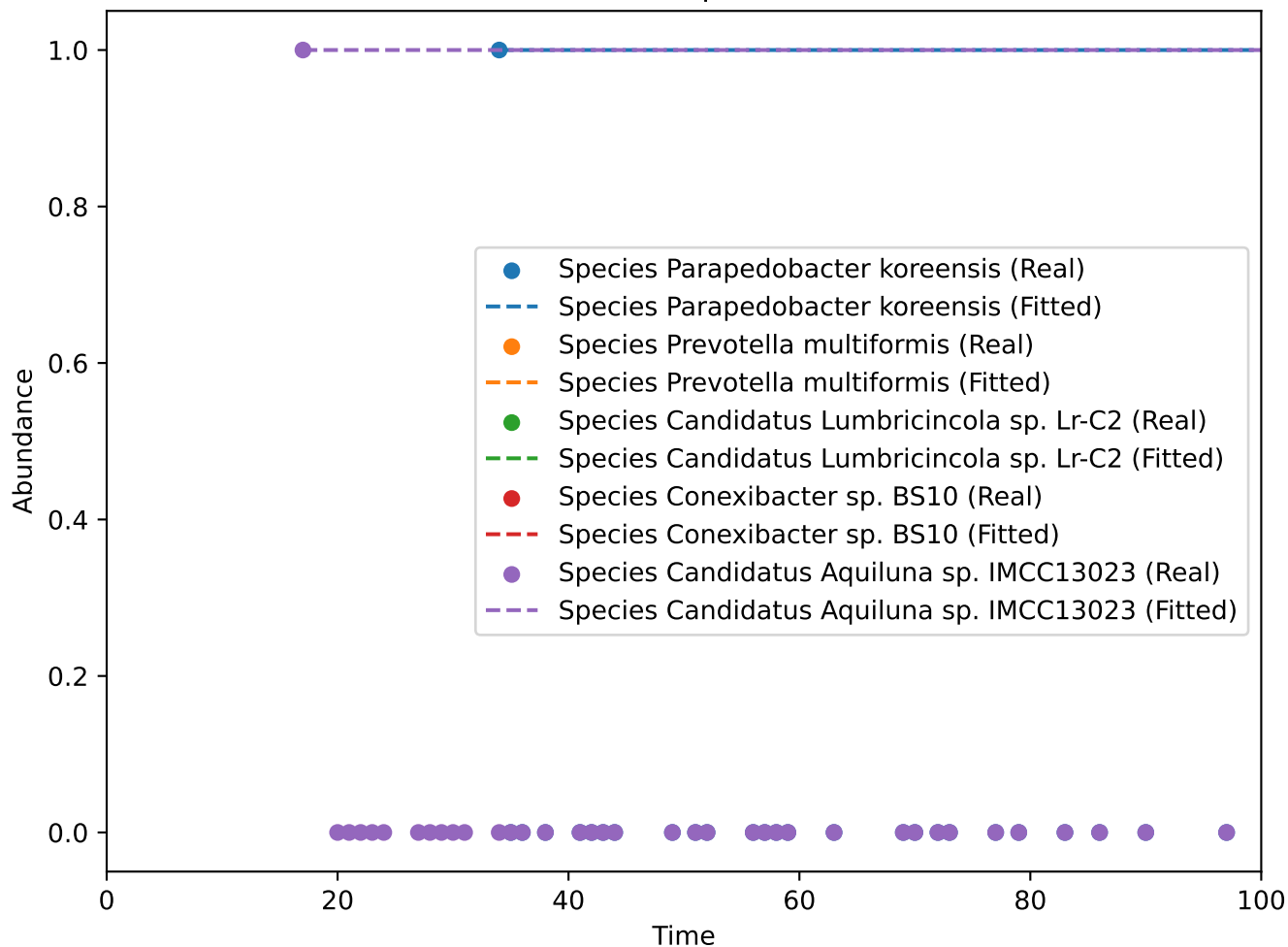
Mouse 5 - Species Fit

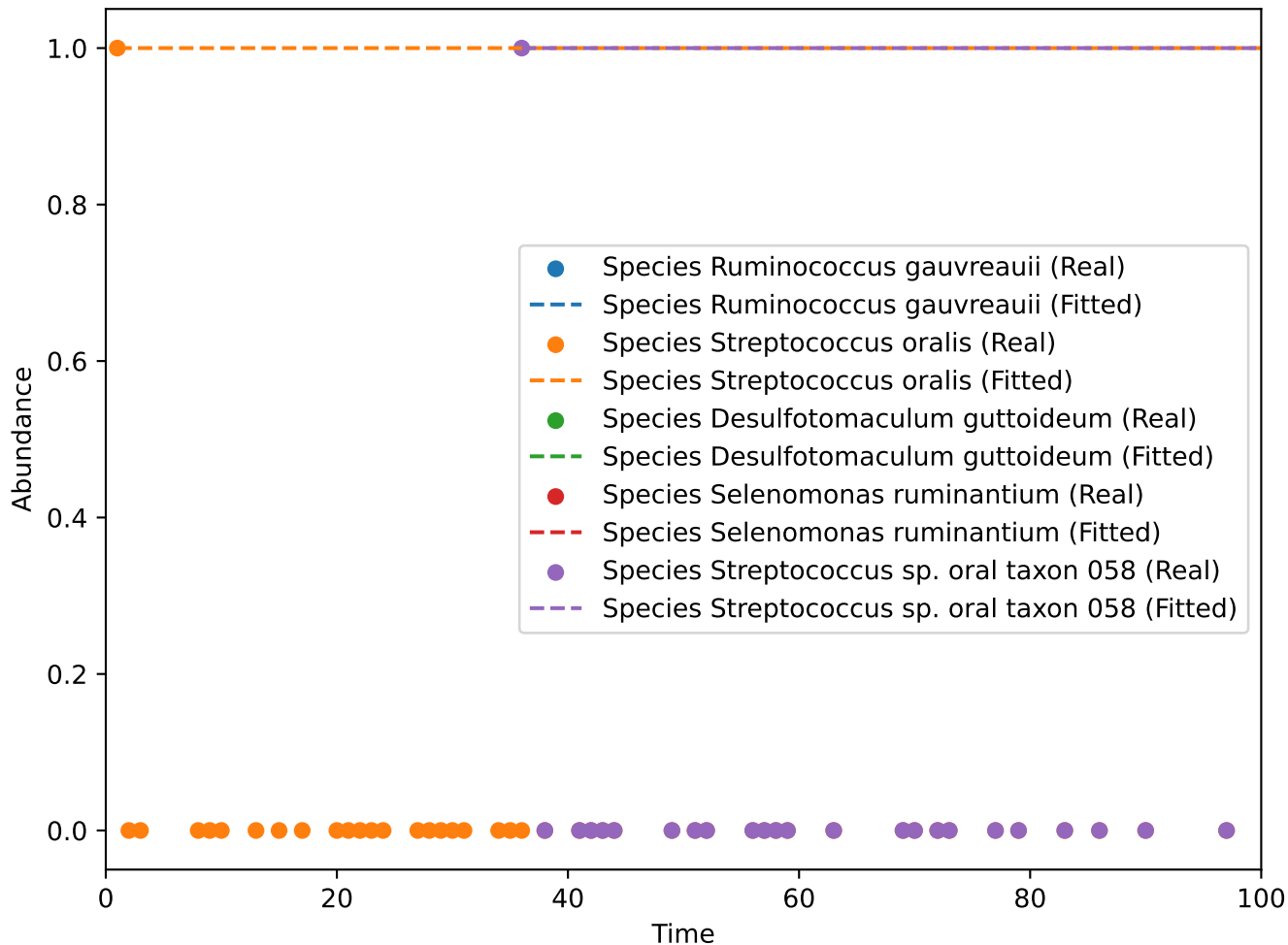


Mouse 5 - Species Fit

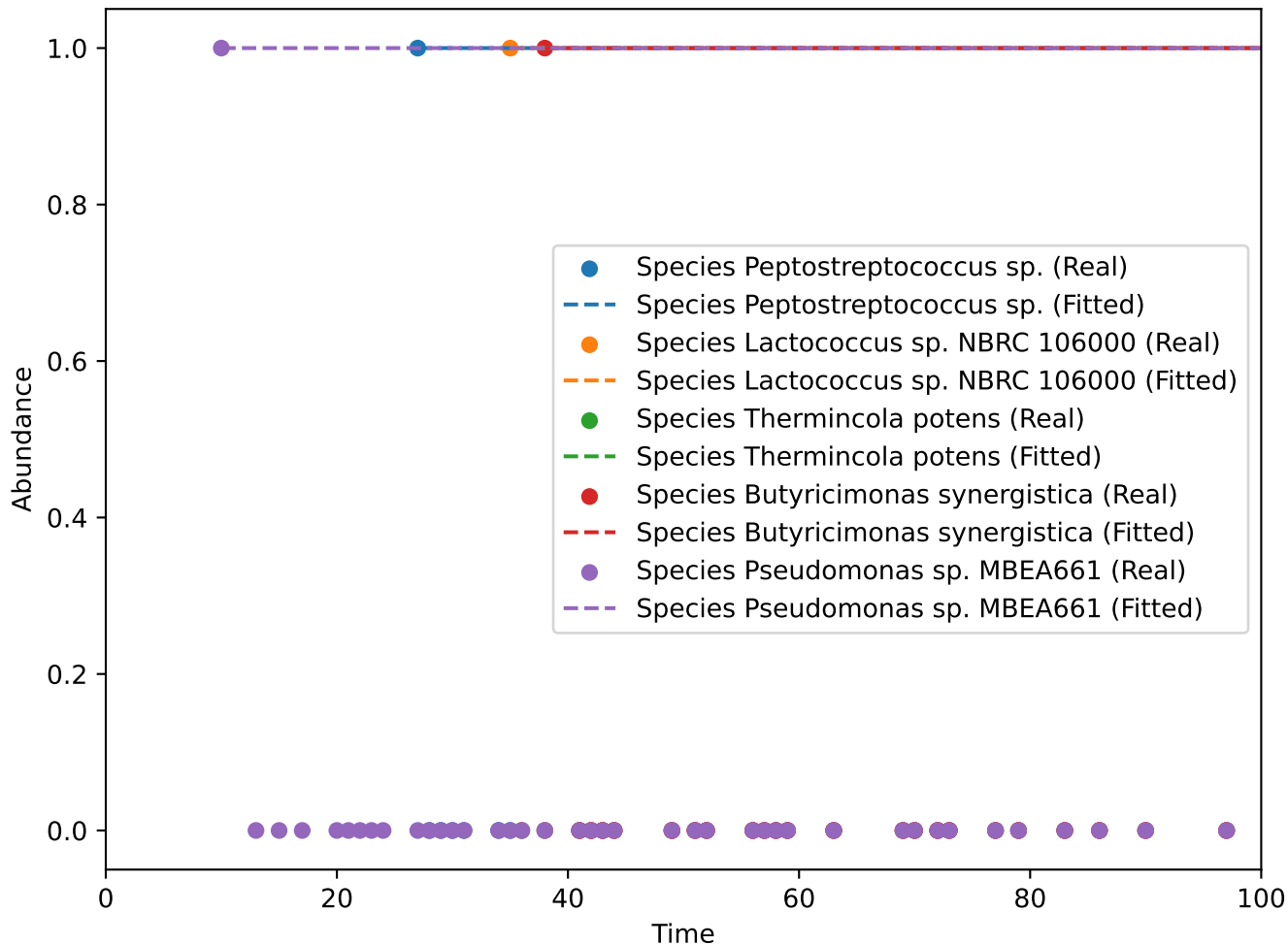


Year	Total Workforce (Millions)	Nonfarm Sector Workforce (Millions)
1990	100	80
1995	105	85
2000	110	90
2005	115	95
2010	140	120





● Species *Peptostreptococcus* sp. (Real)
 --- Species *Peptostreptococcus* sp. (Fitted)
 ● Species *Lactococcus* sp. NBRC 106000 (Real)
 --- Species *Lactococcus* sp. NBRC 106000 (Fitted)
 ● Species *Thermicola* potens (Real)
 --- Species *Thermicola* potens (Fitted)
 ● Species *Butyricimonas* synergistica (Real)
 --- Species *Butyricimonas* synergistica (Fitted)
 ● Species *Pseudomonas* sp. MBEA661 (Real)
 --- Species *Pseudomonas* sp. MBEA661 (Fitted)



Species Aeromicrobium sp. 1_C7_65 (Real)

Species Aeromicrobium sp. 1_C7_65 (Fitted)

Species Cytophaga sp. MBIC01539 (Real)

Species Cytophaga sp. MBIC01539 (Fitted)

Species Blautia luti (Real)

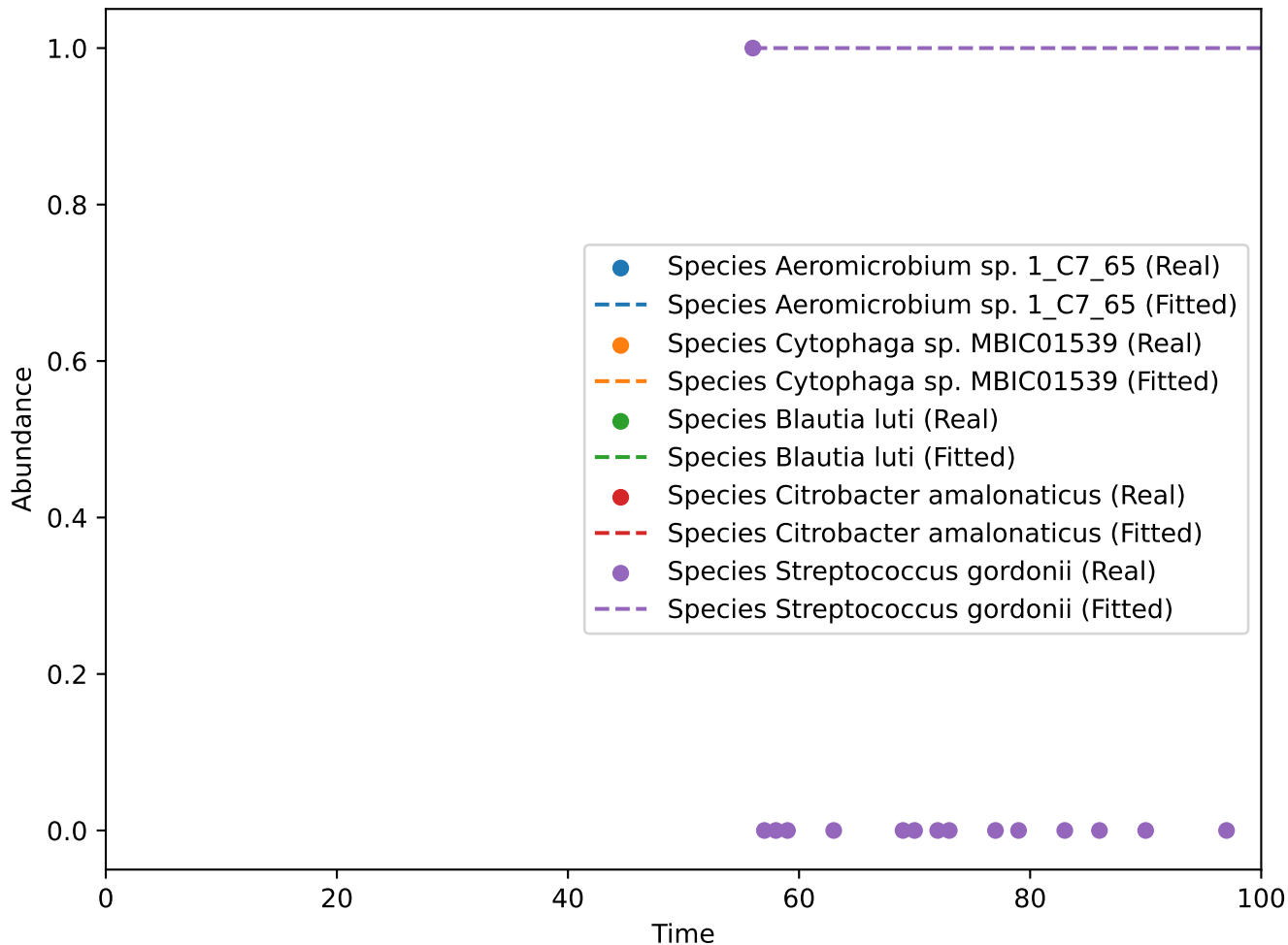
Species Blautia luti (Fitted)

Species Citrobacter amalonaticus (Real)

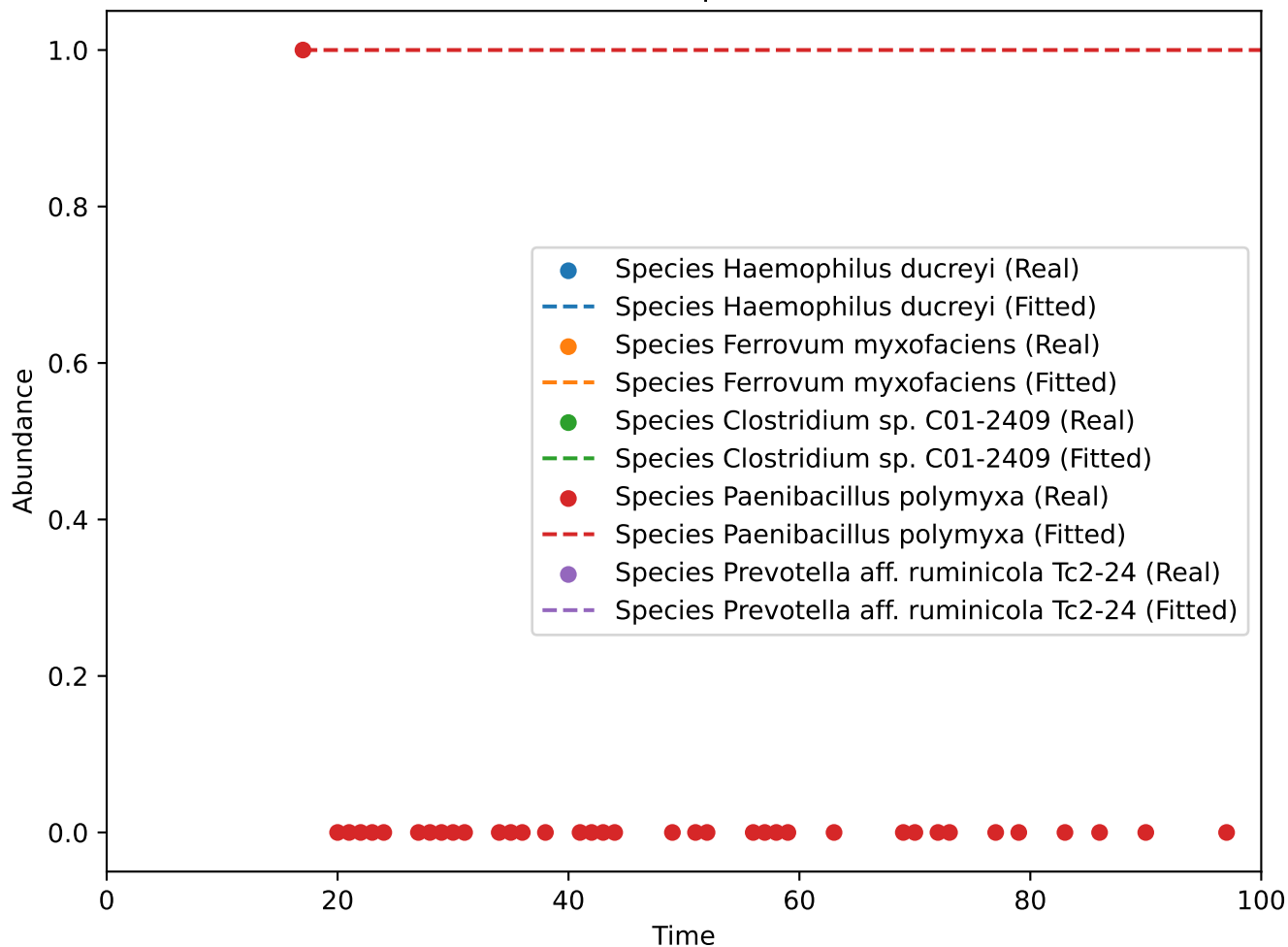
Species Citrobacter amalonaticus (Fitted)

Species Streptococcus gordonii (Real)

Species Streptococcus gordonii (Fitted)



Mouse 5 - Species Fit



Species Prevotella sp. canine oral taxon 282 (Real)

Species Prevotella sp. canine oral taxon 282 (Fitted)

Species Porphyromonas cangingivalis (Real)

Species Porphyromonas cangingivalis (Fitted)

Species Lactobacillus hominis (Real)

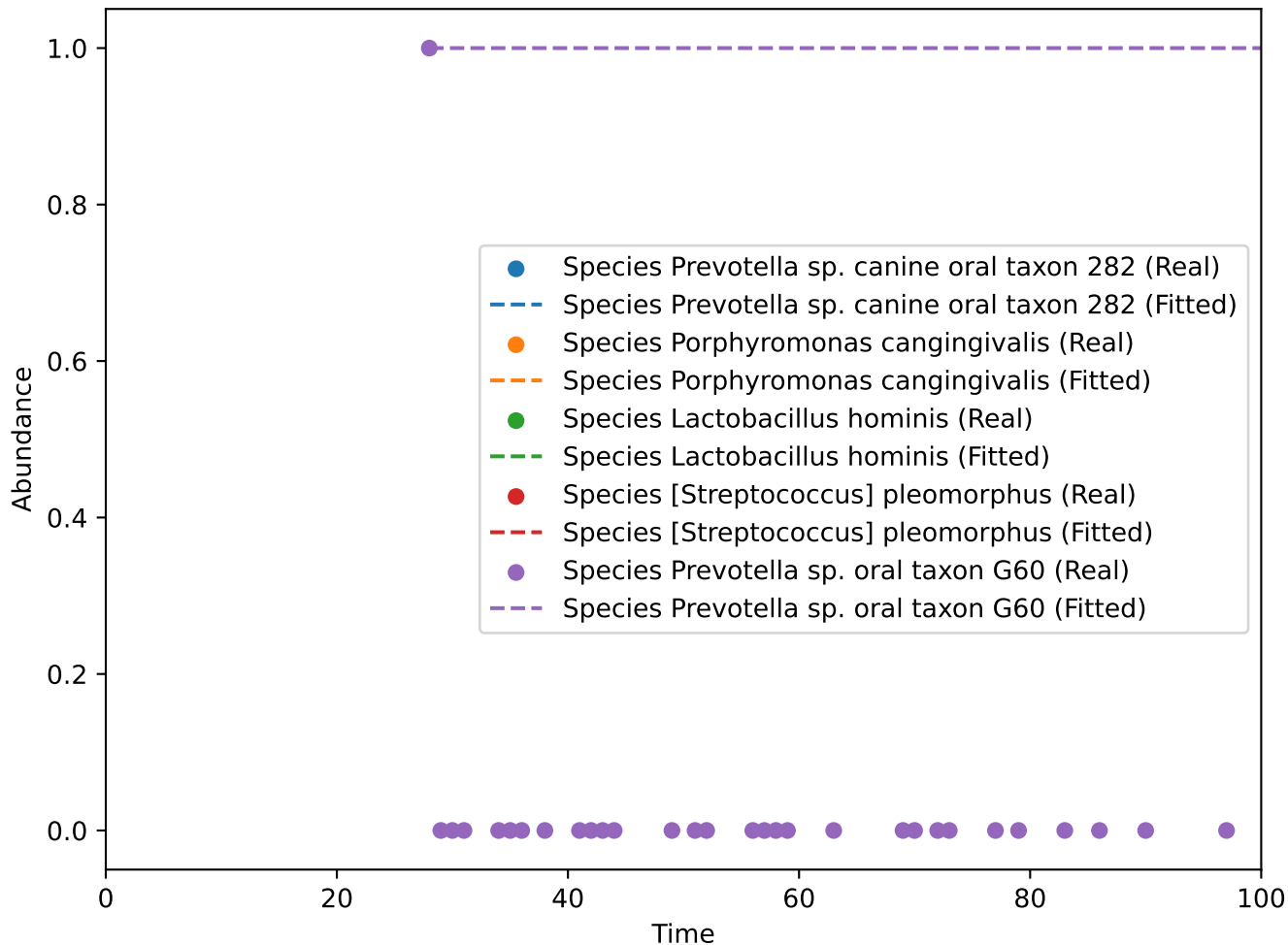
Species Lactobacillus hominis (Fitted)

Species [Streptococcus] pleomorphus (Real)

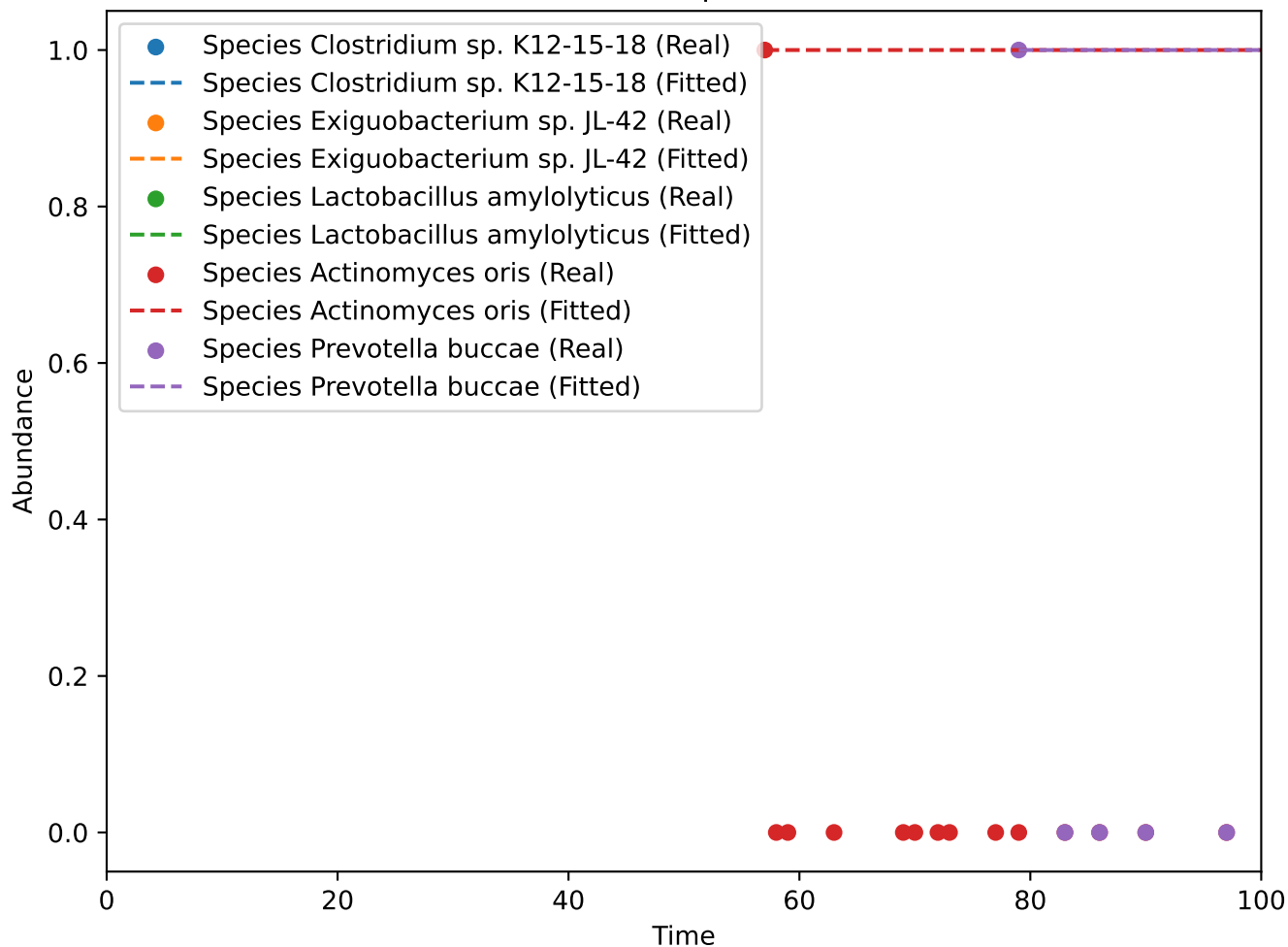
Species [Streptococcus] pleomorphus (Fitted)

Species Prevotella sp. oral taxon G60 (Real)

Species Prevotella sp. oral taxon G60 (Fitted)



Mouse 5 - Species Fit



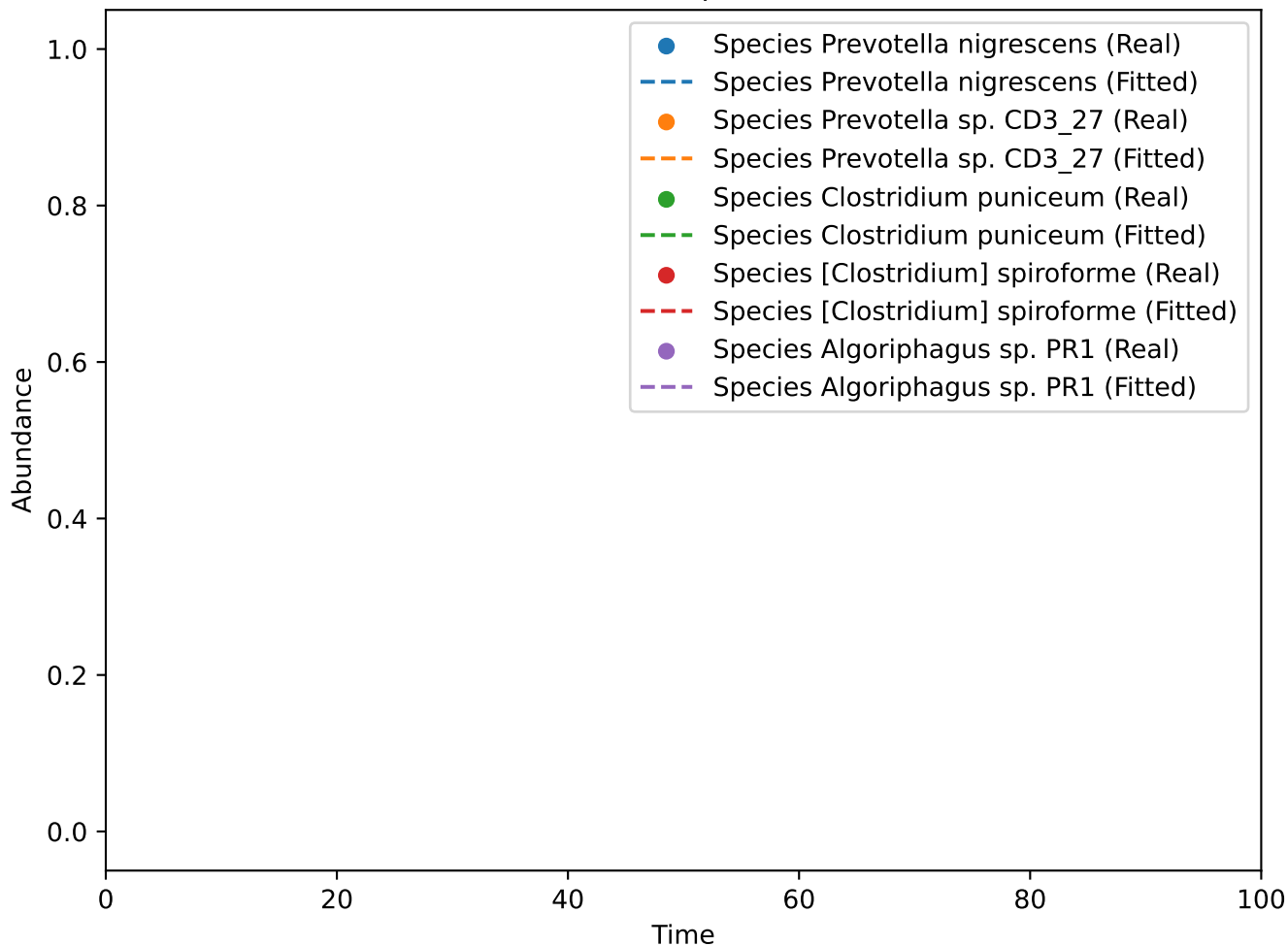
The graph displays the temporal dynamics of five bacterial species. The y-axis, labeled 'Number of species', ranges from 0 to 10. The x-axis, labeled 'Time (days)', ranges from 0 to 100. The legend identifies the following series:

- Species *Prevotella nigrescens* (Real): Solid blue line with circular markers.
- Species *Prevotella nigrescens* (Fitted): Dashed blue line.
- Species *Prevotella* sp. CD3_27 (Real): Solid orange line with circular markers.
- Species *Prevotella* sp. CD3_27 (Fitted): Dashed orange line.
- Species *Clostridium puniceum* (Real): Solid green line with circular markers.
- Species *Clostridium puniceum* (Fitted): Dashed green line.
- Species *[Clostridium] spiroforme* (Real): Solid red line with circular markers.
- Species *[Clostridium] spiroforme* (Fitted): Dashed red line.
- Species *Algoriphagus* sp. PR1 (Real): Solid purple line with circular markers.
- Species *Algoriphagus* sp. PR1 (Fitted): Dashed purple line.

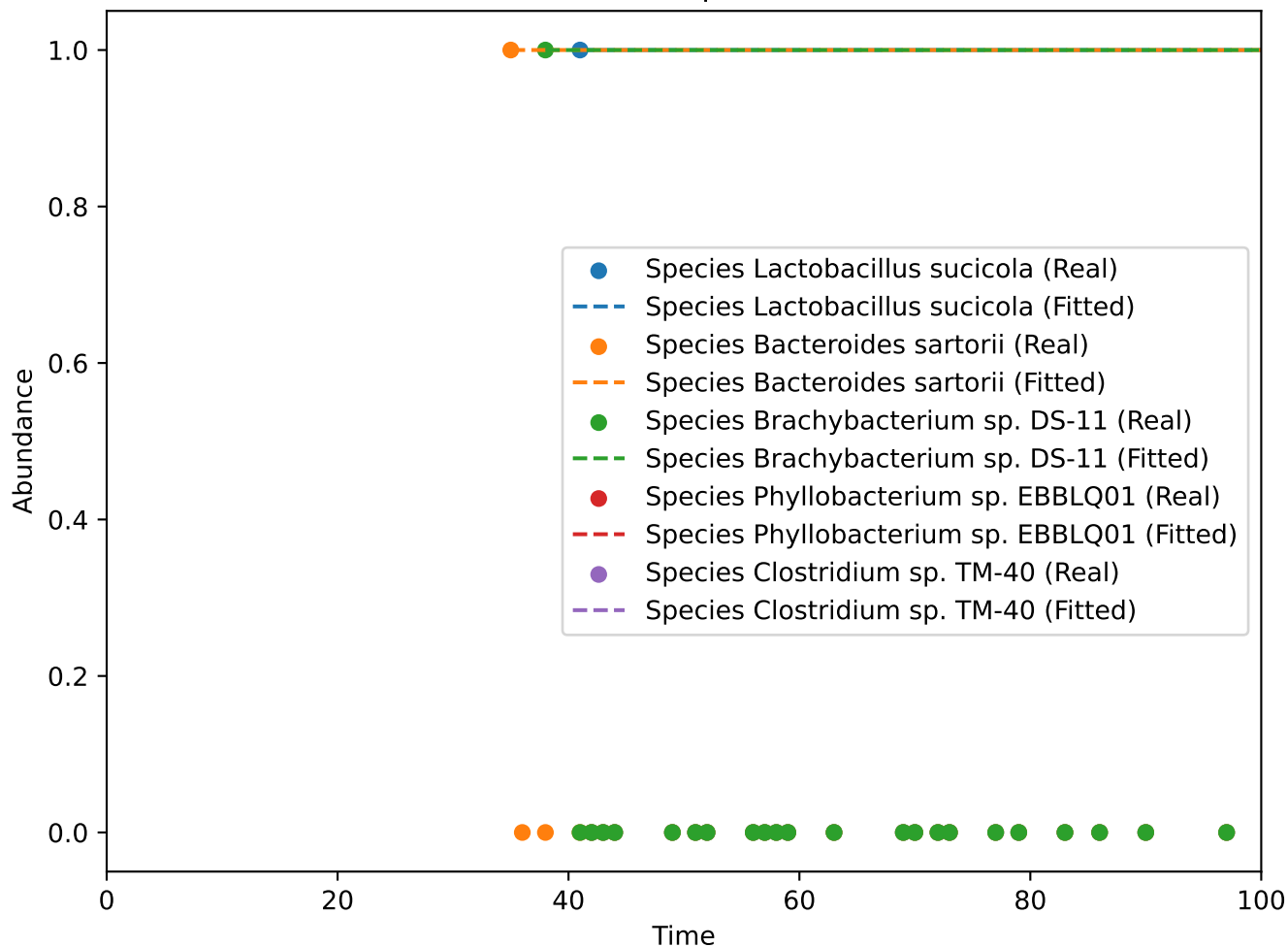
Key observations from the graph include:

- Prevotella nigrescens* (blue) shows a rapid increase from 0 to approximately 8 species within the first 10 days, followed by a gradual decline to about 4 species by day 100.
- Prevotella* sp. CD3_27 (orange) increases from 0 to about 4 species by day 10 and remains stable thereafter.
- Clostridium puniceum* (green) increases from 0 to about 3 species by day 10 and remains stable.
- [Clostridium] spiroforme* (red) increases from 0 to about 2 species by day 10 and remains stable.
- Algoriphagus* sp. PR1 (purple) increases from 0 to about 1 species by day 10 and remains stable.

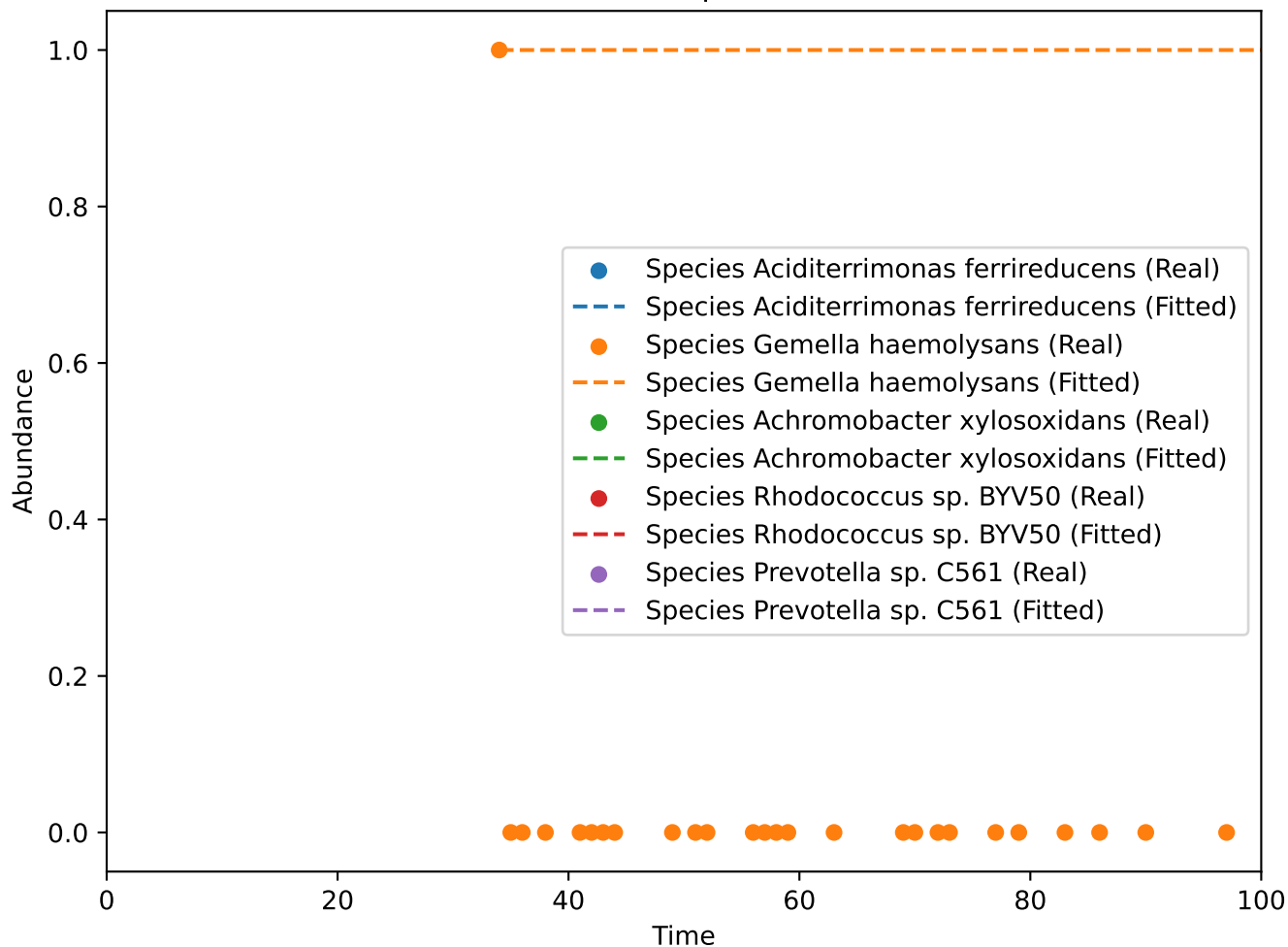
The fitted lines (dashed) closely follow the real data points (solid lines with markers), indicating a good fit of the model to the observed data.



Mouse 5 - Species Fit



Mouse 5 - Species Fit



Species Haemophilus simiae (Real)

Species Haemophilus simiae (Fitted)

Species Clostridium sp. 232.1 (Real)

Species Clostridium sp. 232.1 (Fitted)

Species Schwartzia succinivorans (Real)

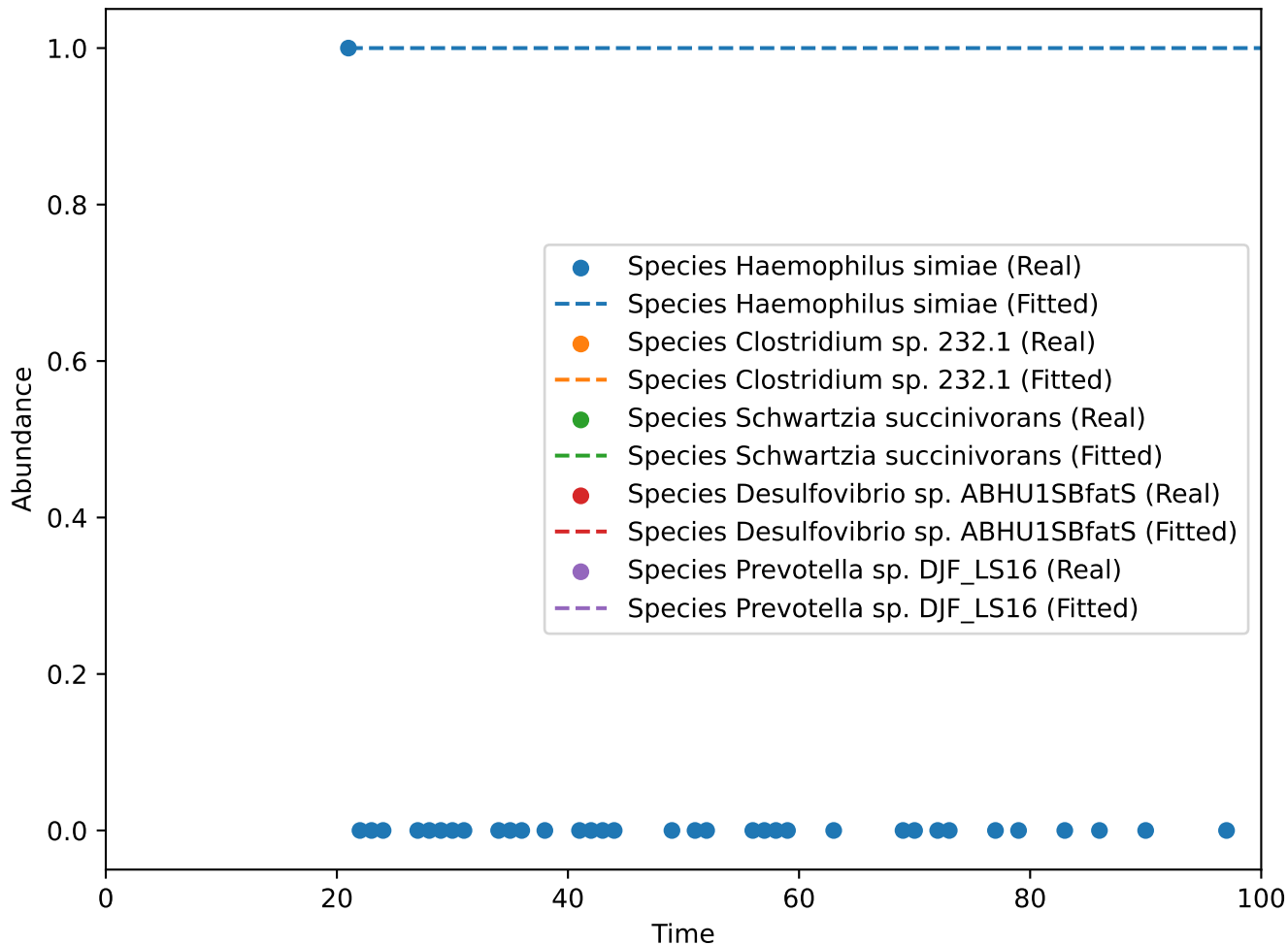
Species Schwartzia succinivorans (Fitted)

Species Desulfovibrio sp. ABHU1SBfatS (Real)

Species Desulfovibrio sp. ABHU1SBfatS (Fitted)

Species Prevotella sp. DJF_LS16 (Real)

Species Prevotella sp. DJF_LS16 (Fitted)



Species Rhodospirillum rubrum (Real)

Species Rhodospirillum rubrum (Fitted)

Species Roseiflexus castenholzii (Real)

Species Roseiflexus castenholzii (Fitted)

Species Blautia sp. canine oral taxon 337 (Real)

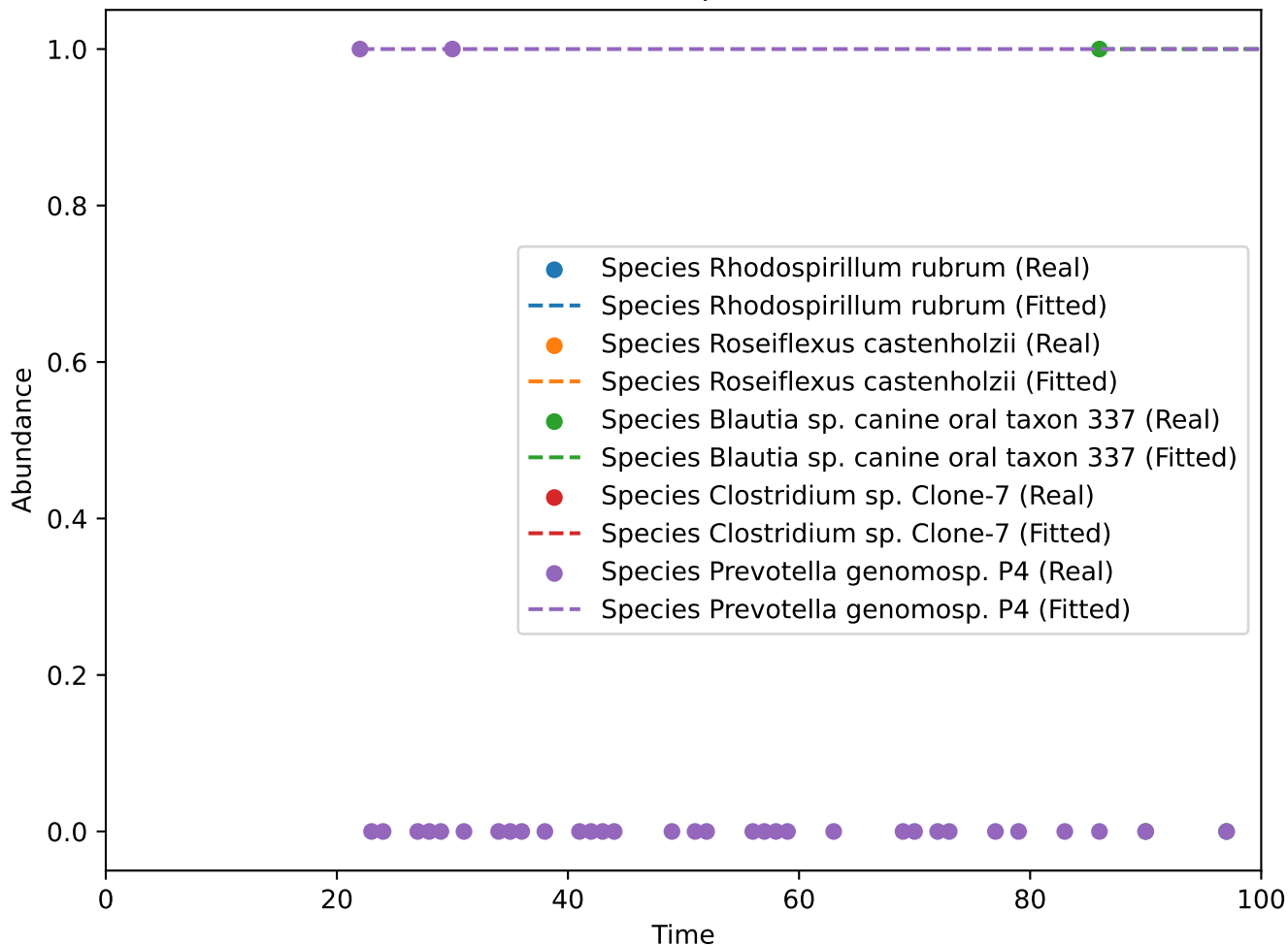
Species Blautia sp. canine oral taxon 337 (Fitted)

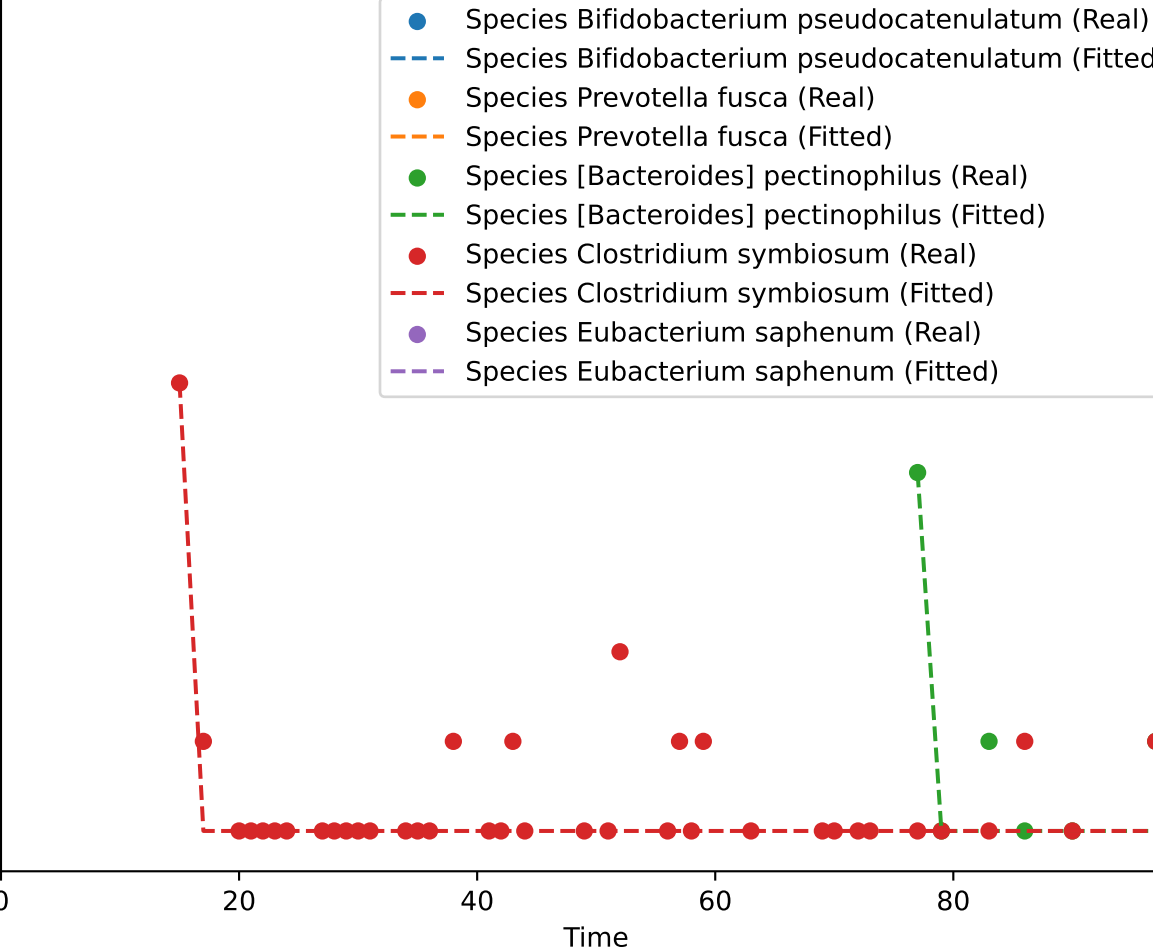
Species Clostridium sp. Clone-7 (Real)

Species Clostridium sp. Clone-7 (Fitted)

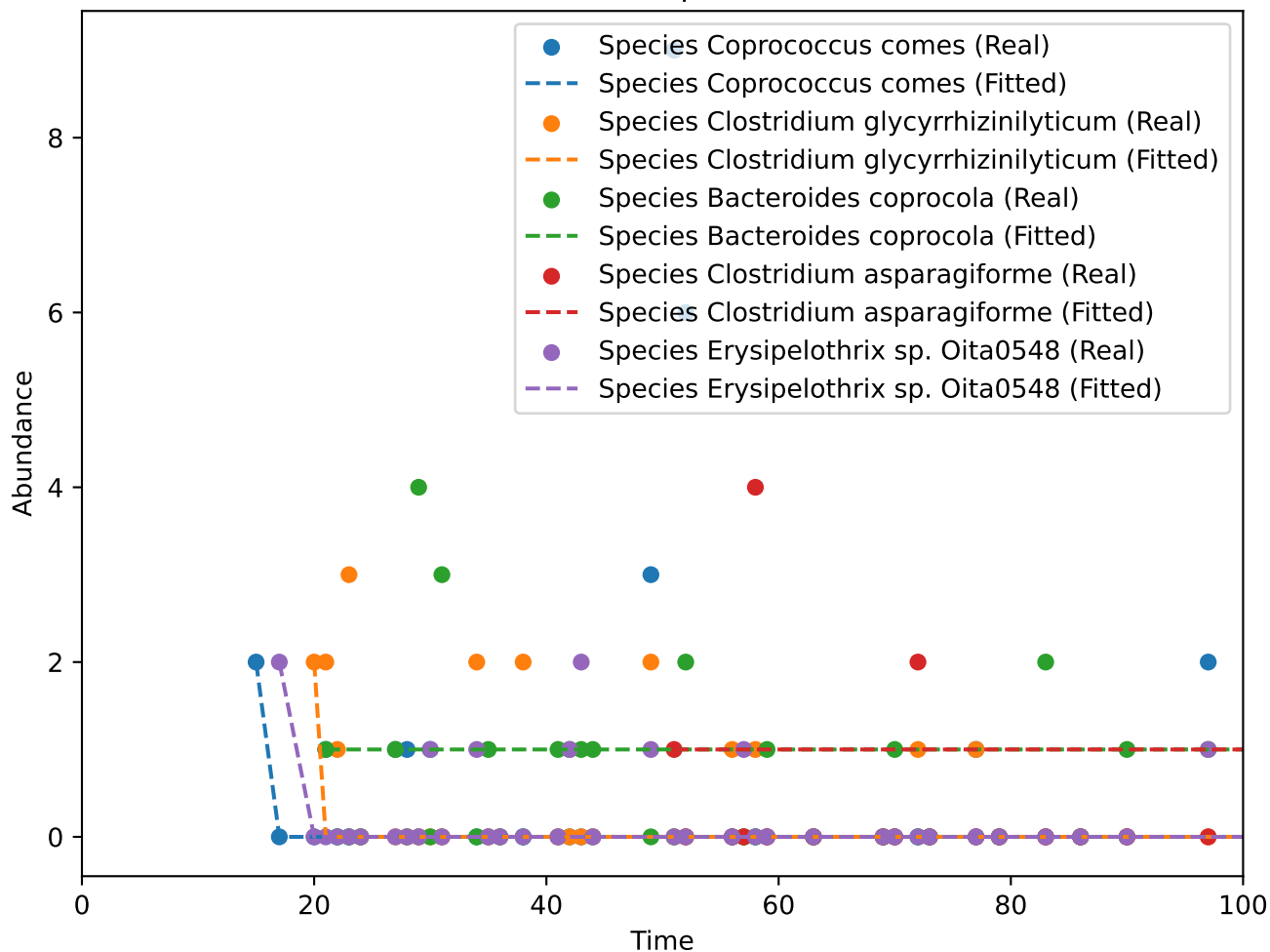
Species Prevotella genomosp. P4 (Real)

Species Prevotella genomosp. P4 (Fitted)

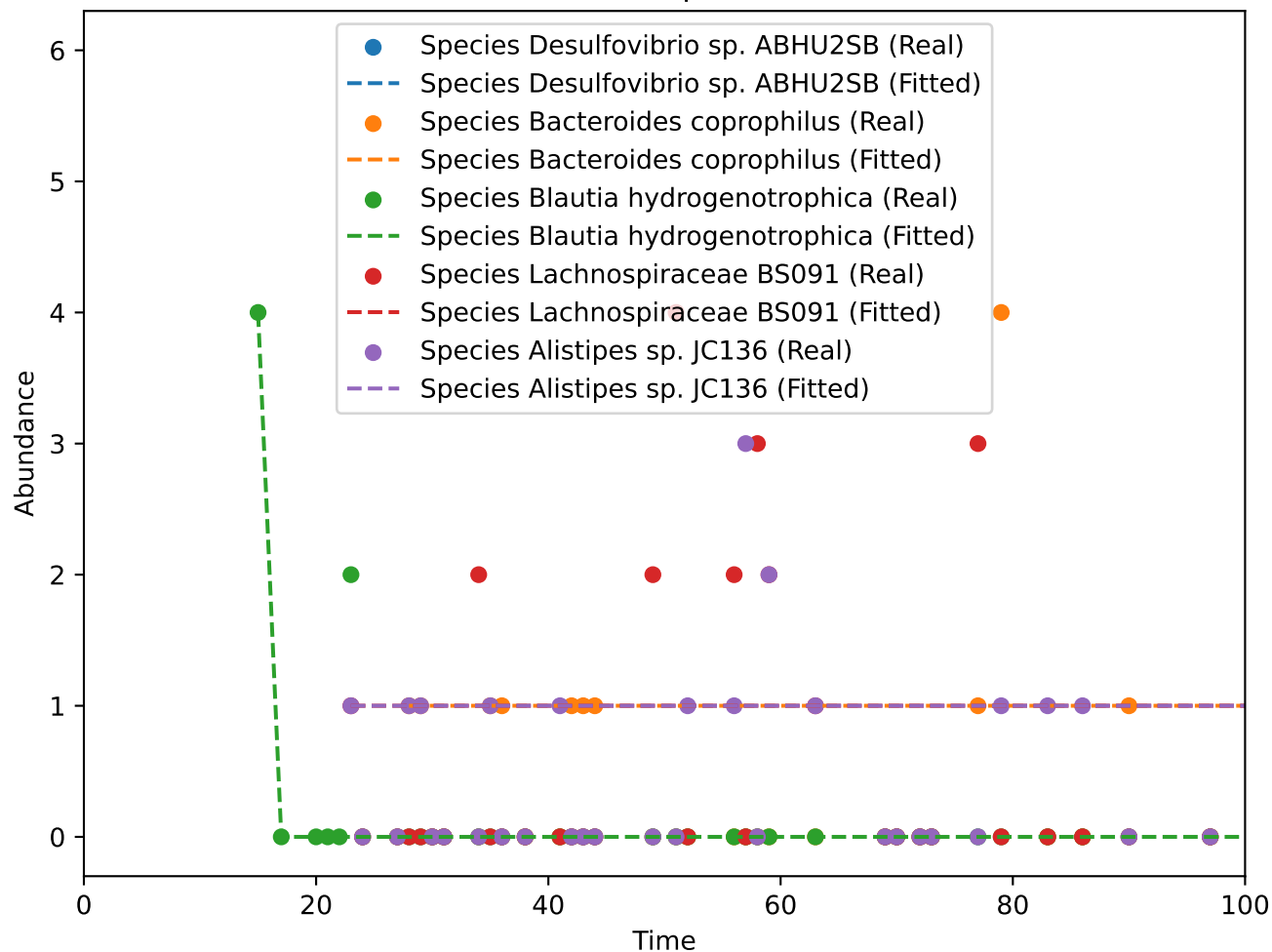


[illegible]

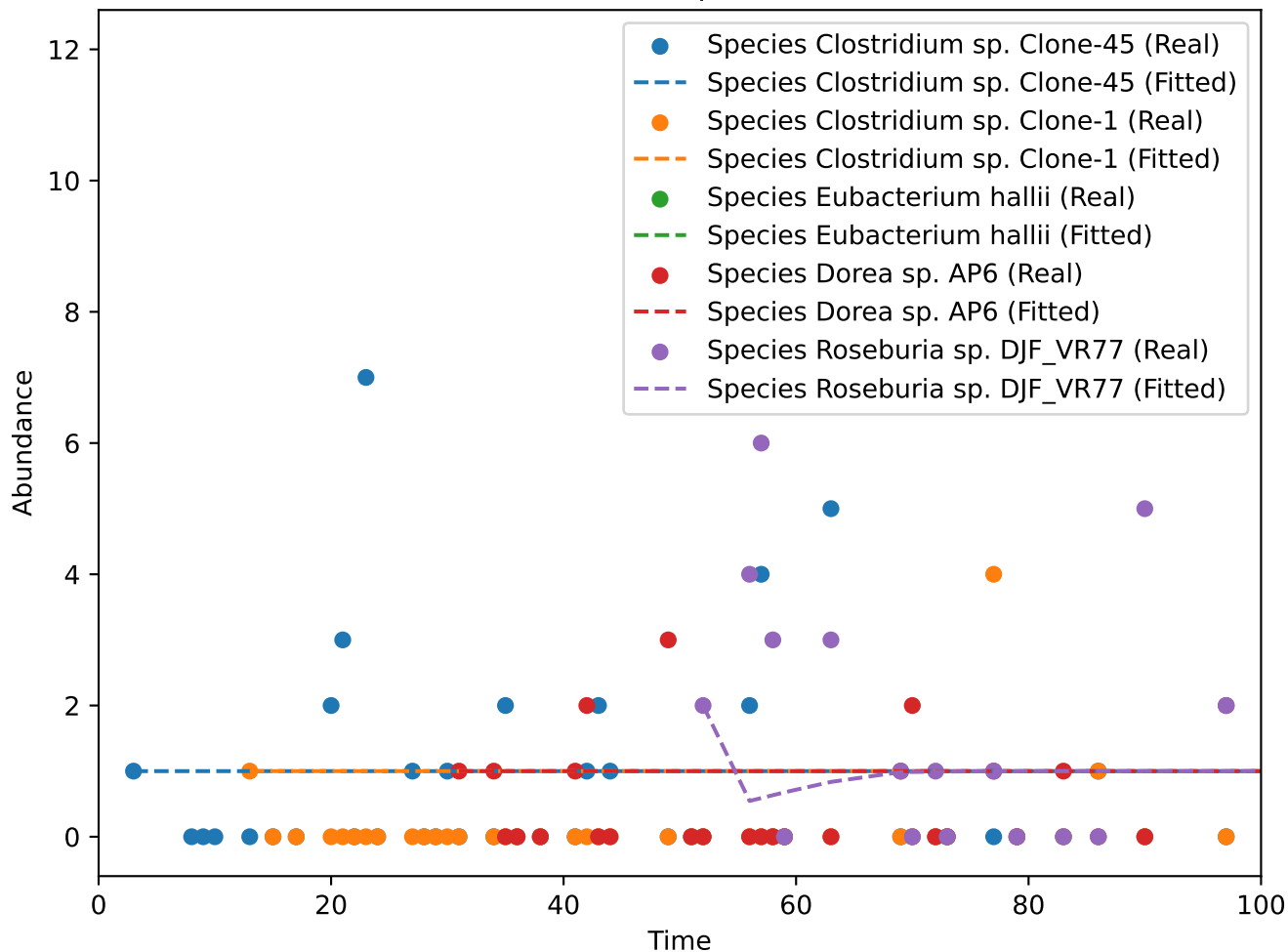
Mouse 5 - Species Fit



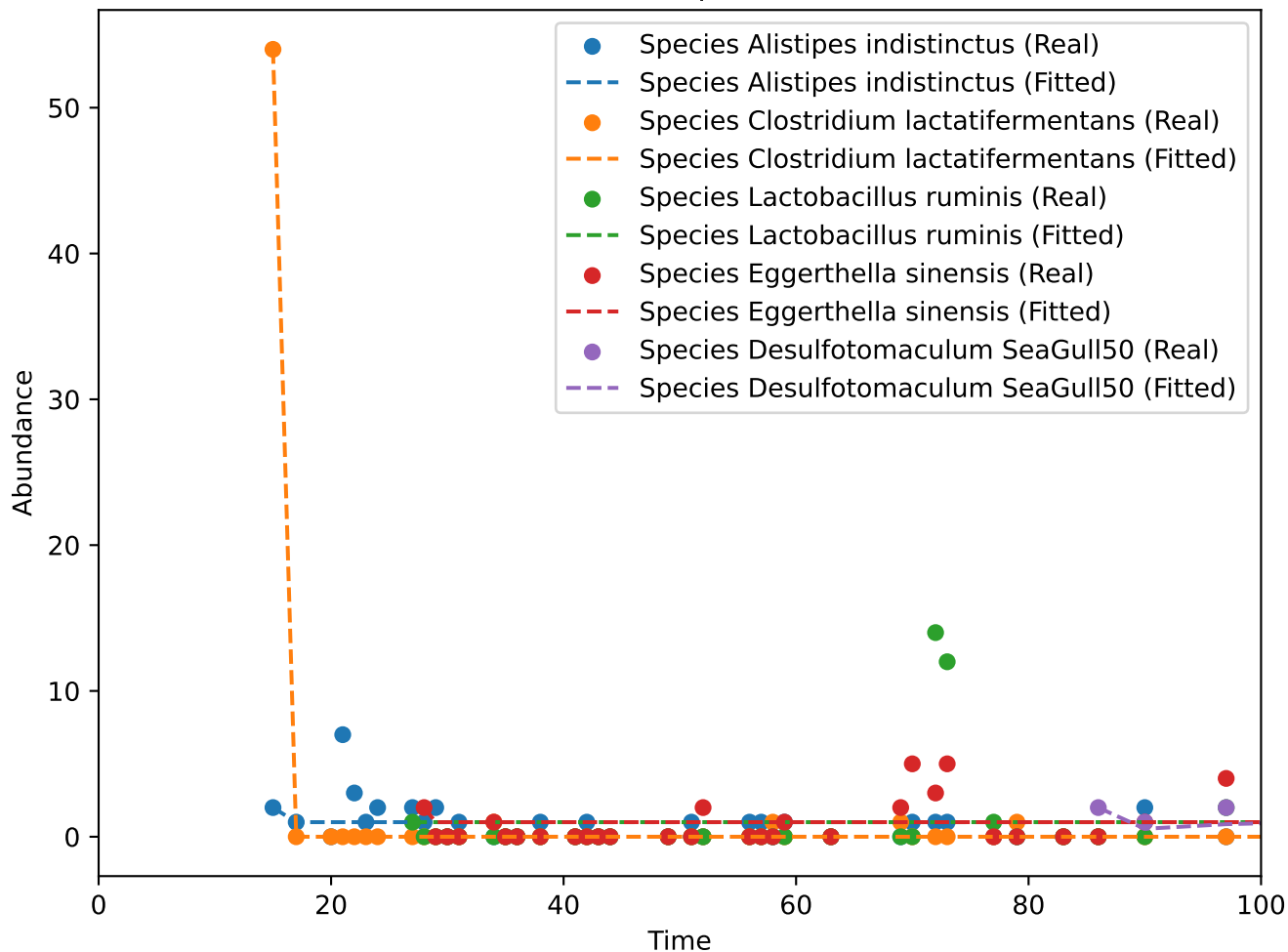
Mouse 5 - Species Fit



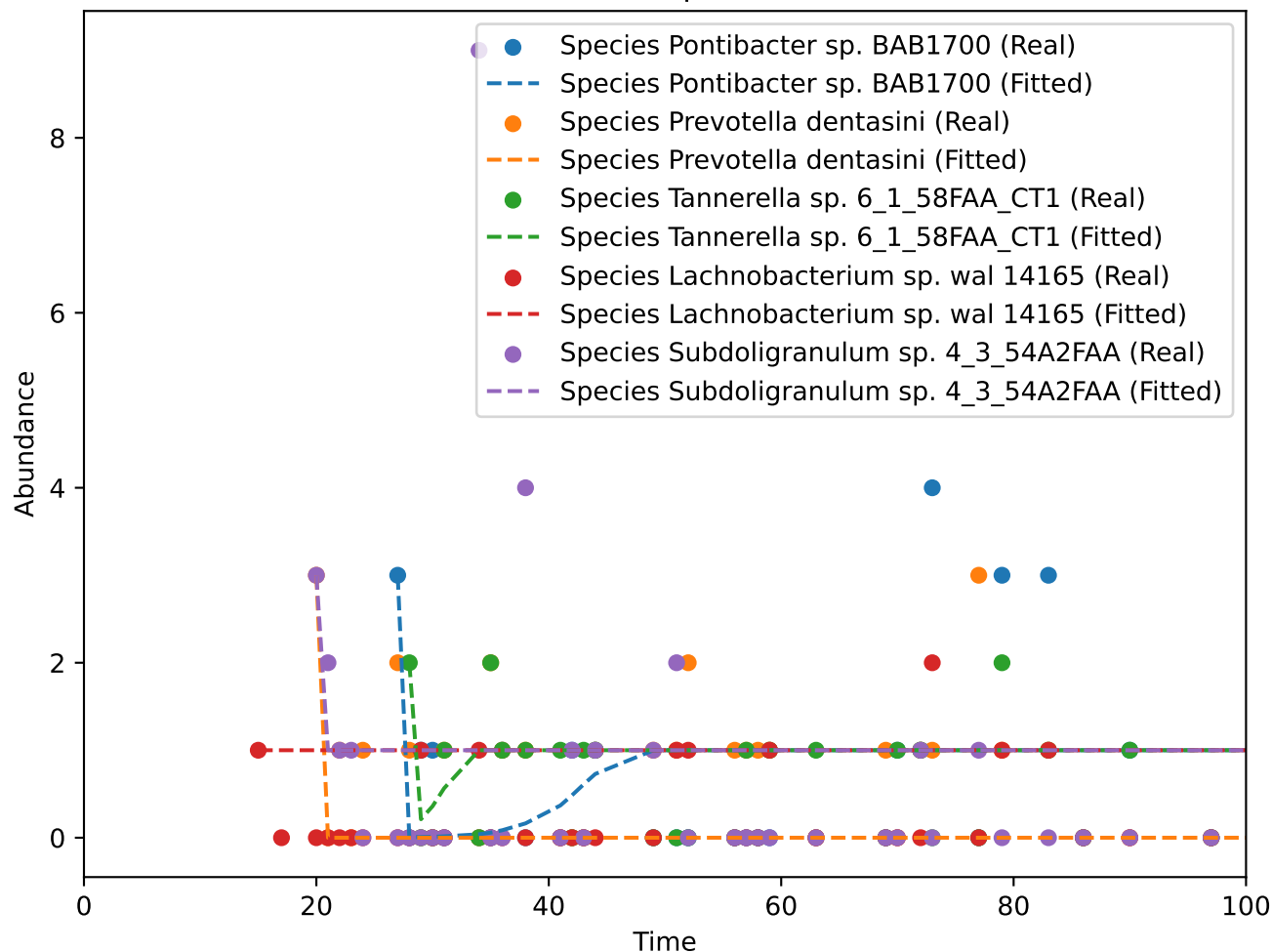
Mouse 5 - Species Fit



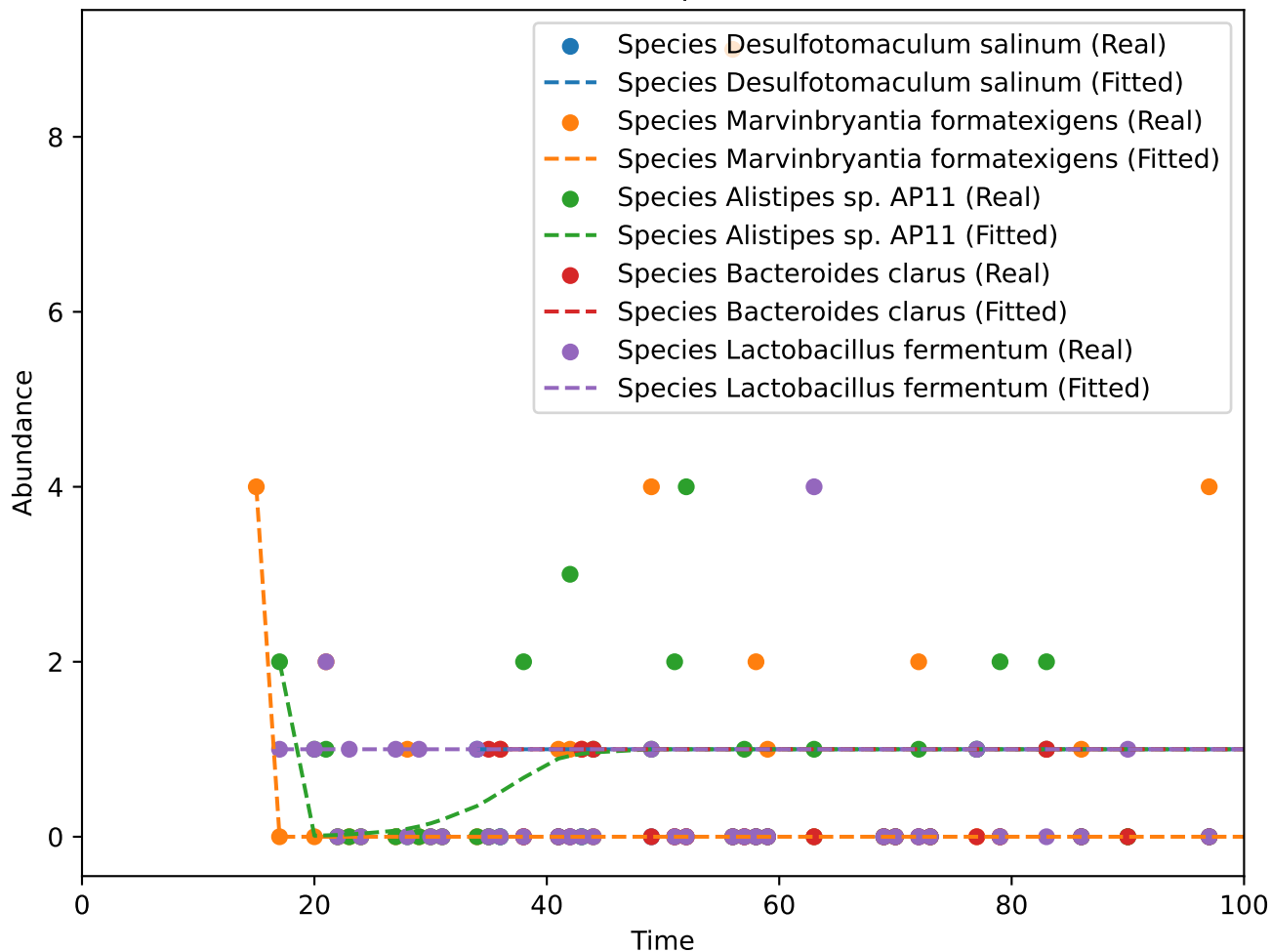
Mouse 5 - Species Fit



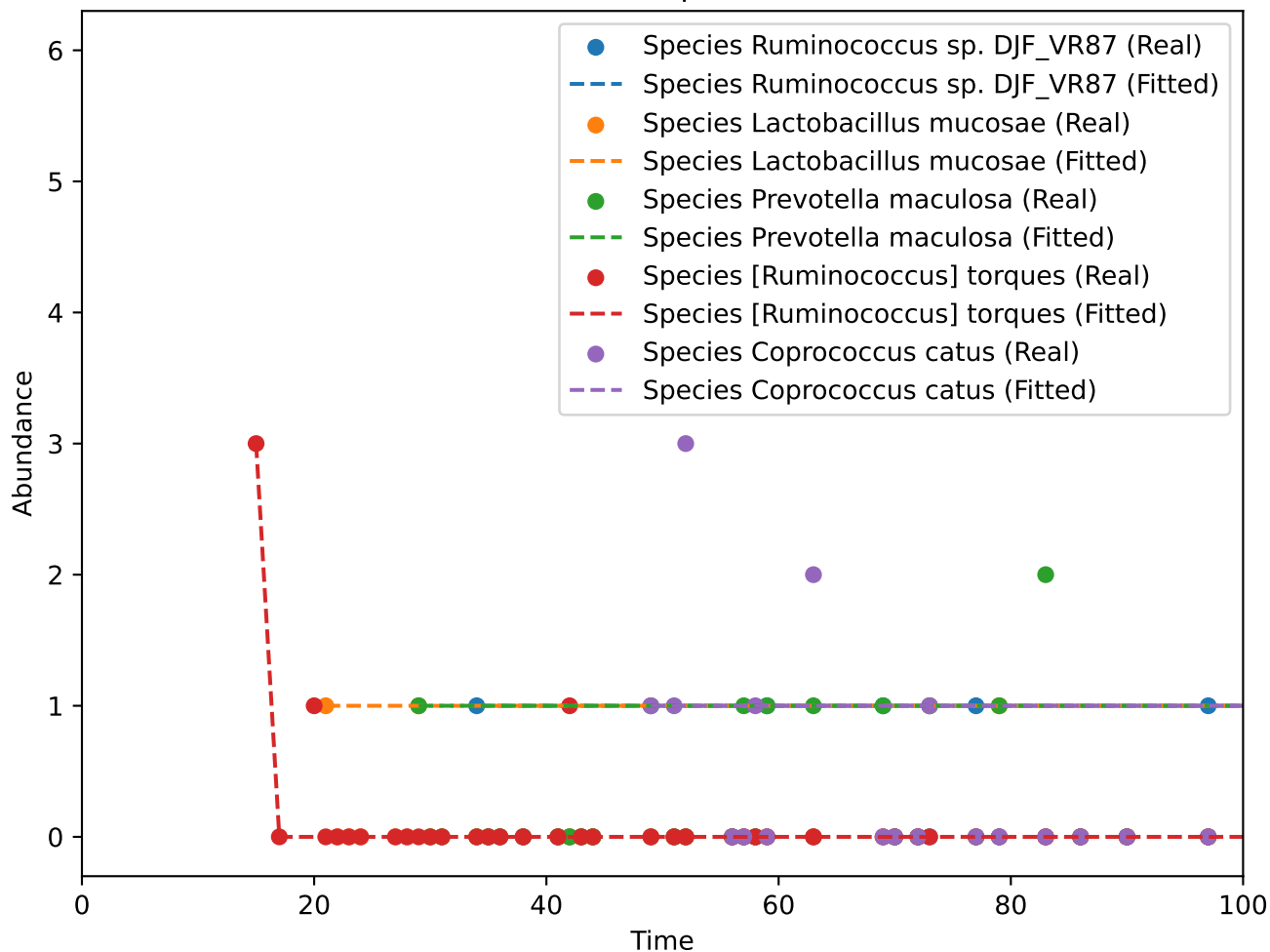
Mouse 5 - Species Fit



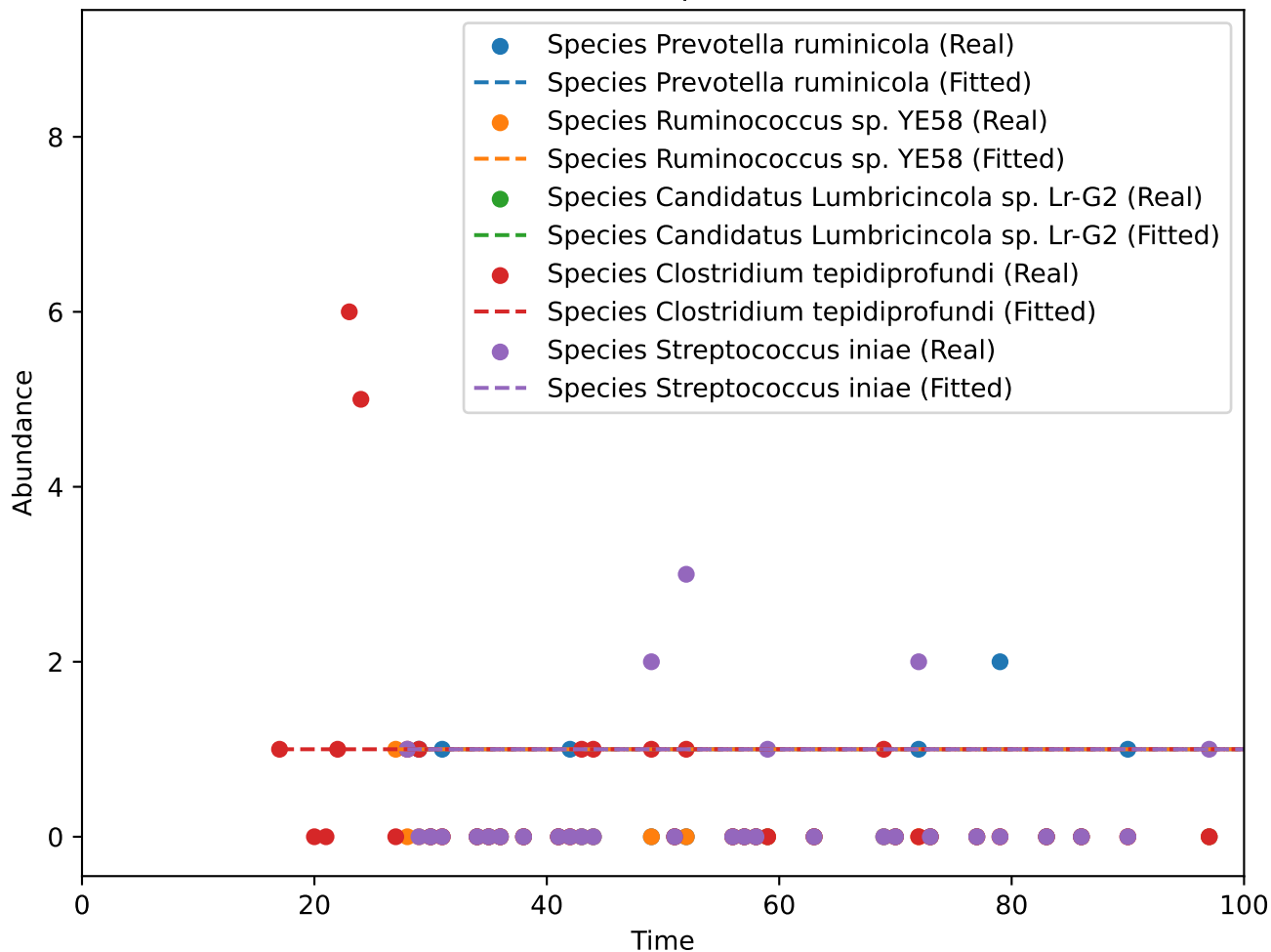
Mouse 5 - Species Fit



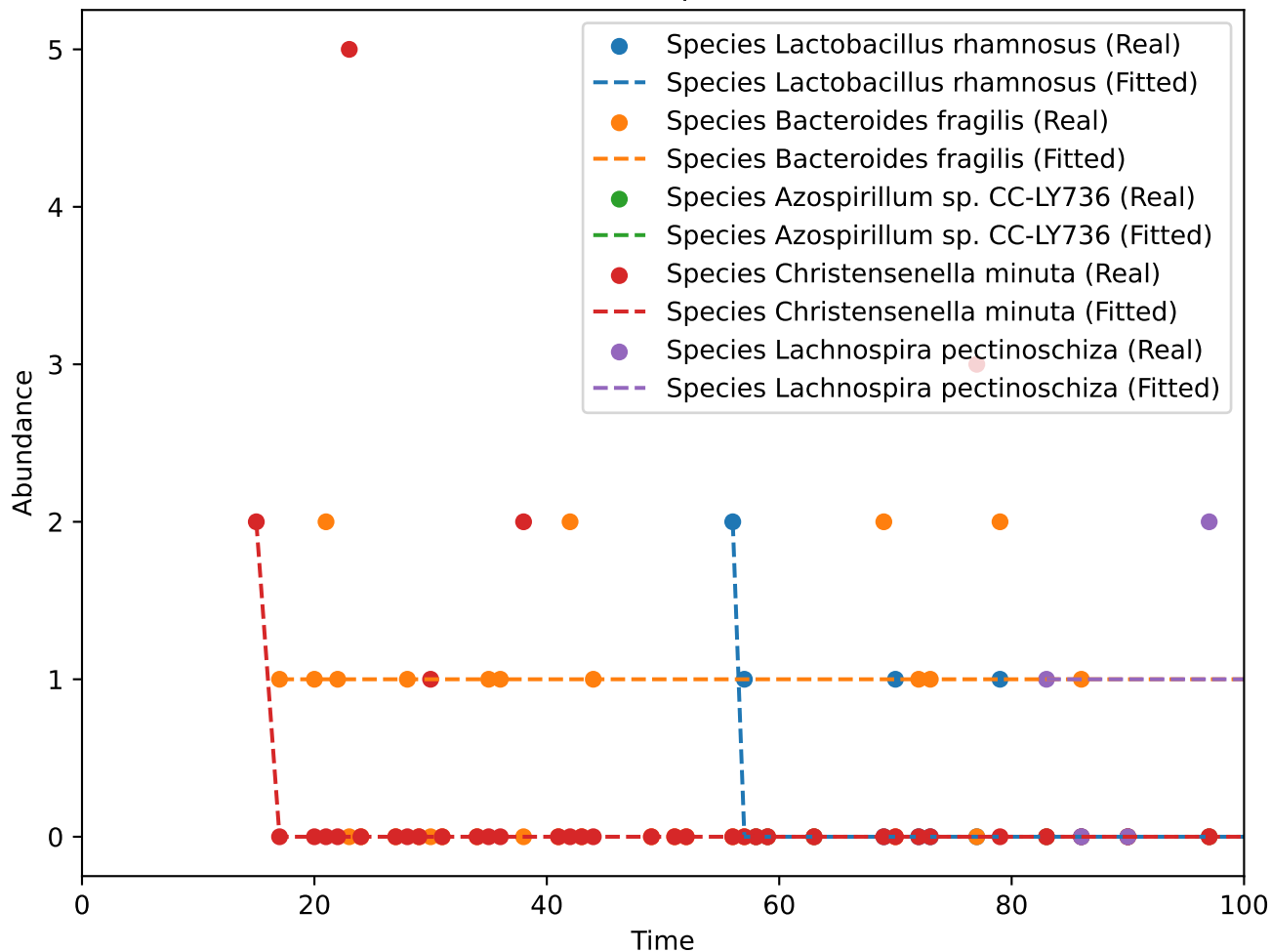
Mouse 5 - Species Fit

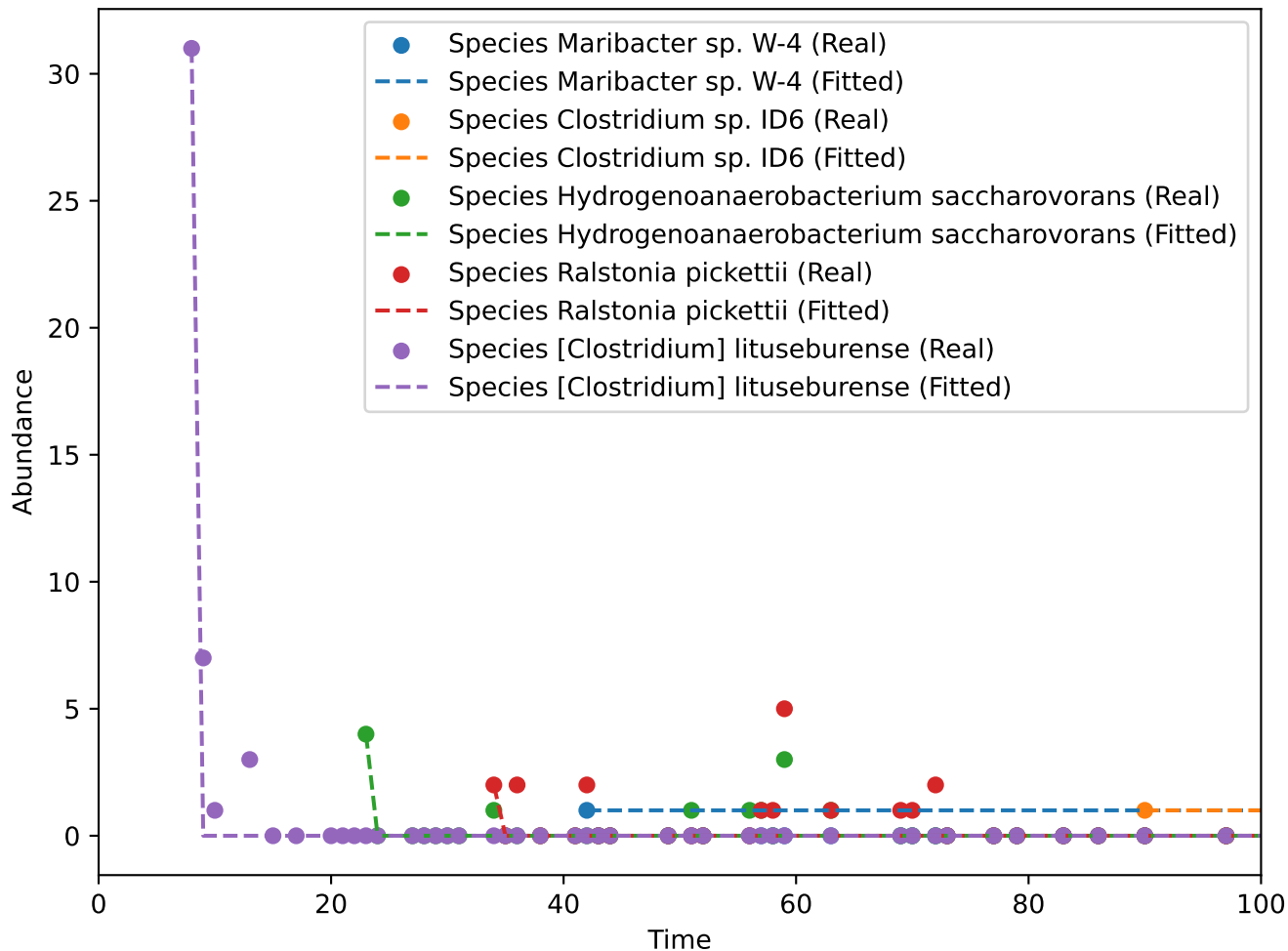


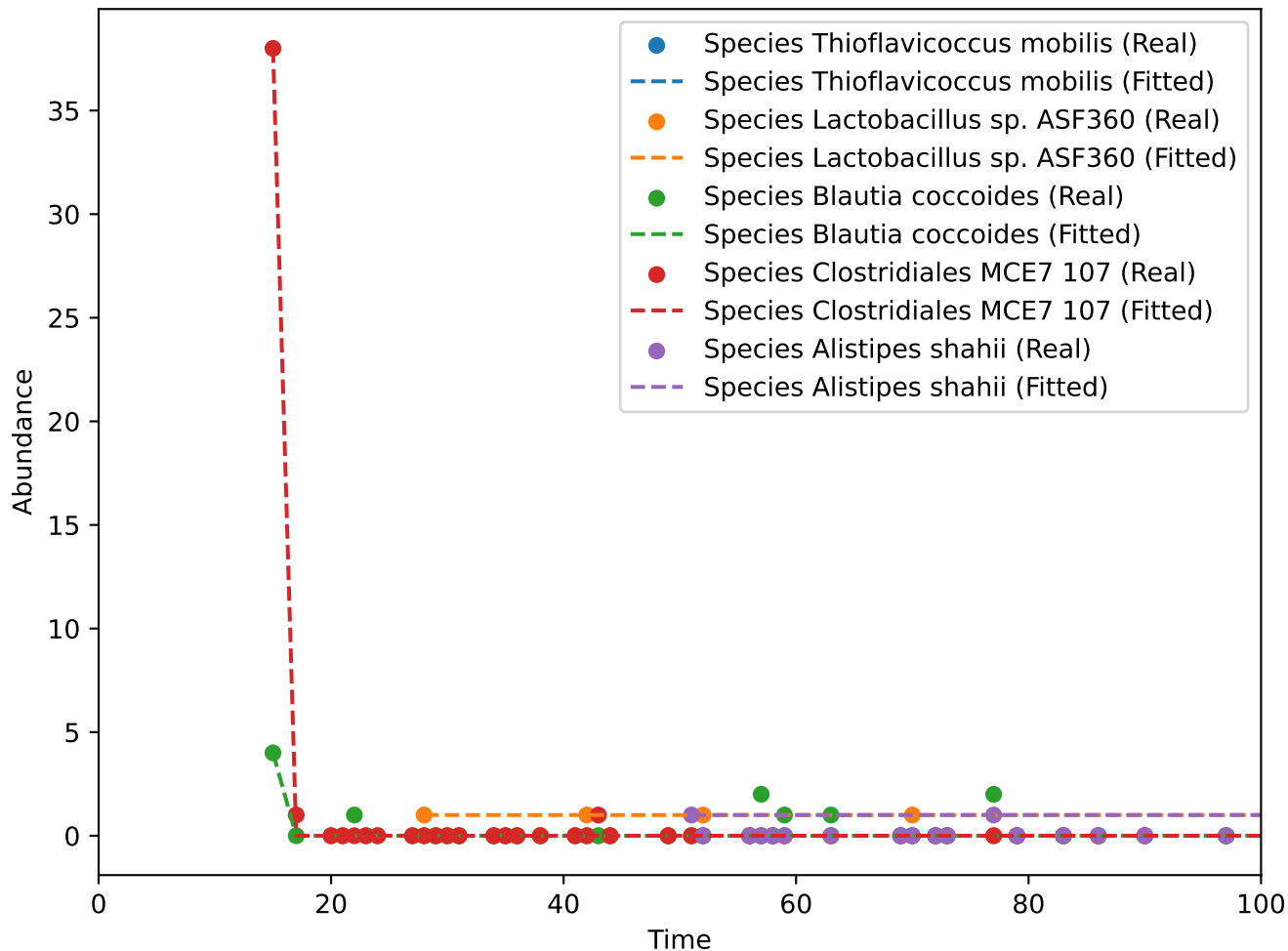
Mouse 5 - Species Fit



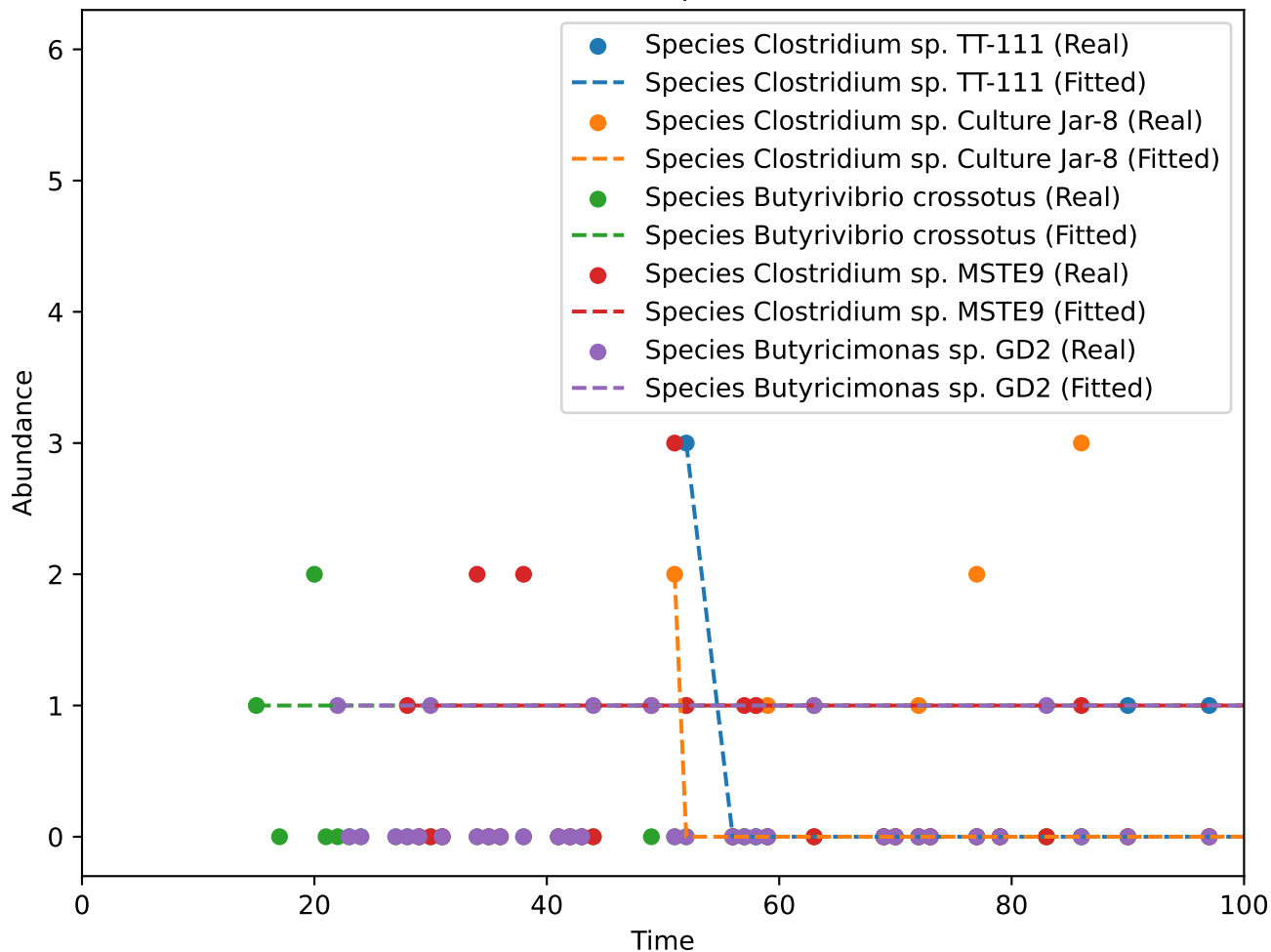
Mouse 5 - Species Fit



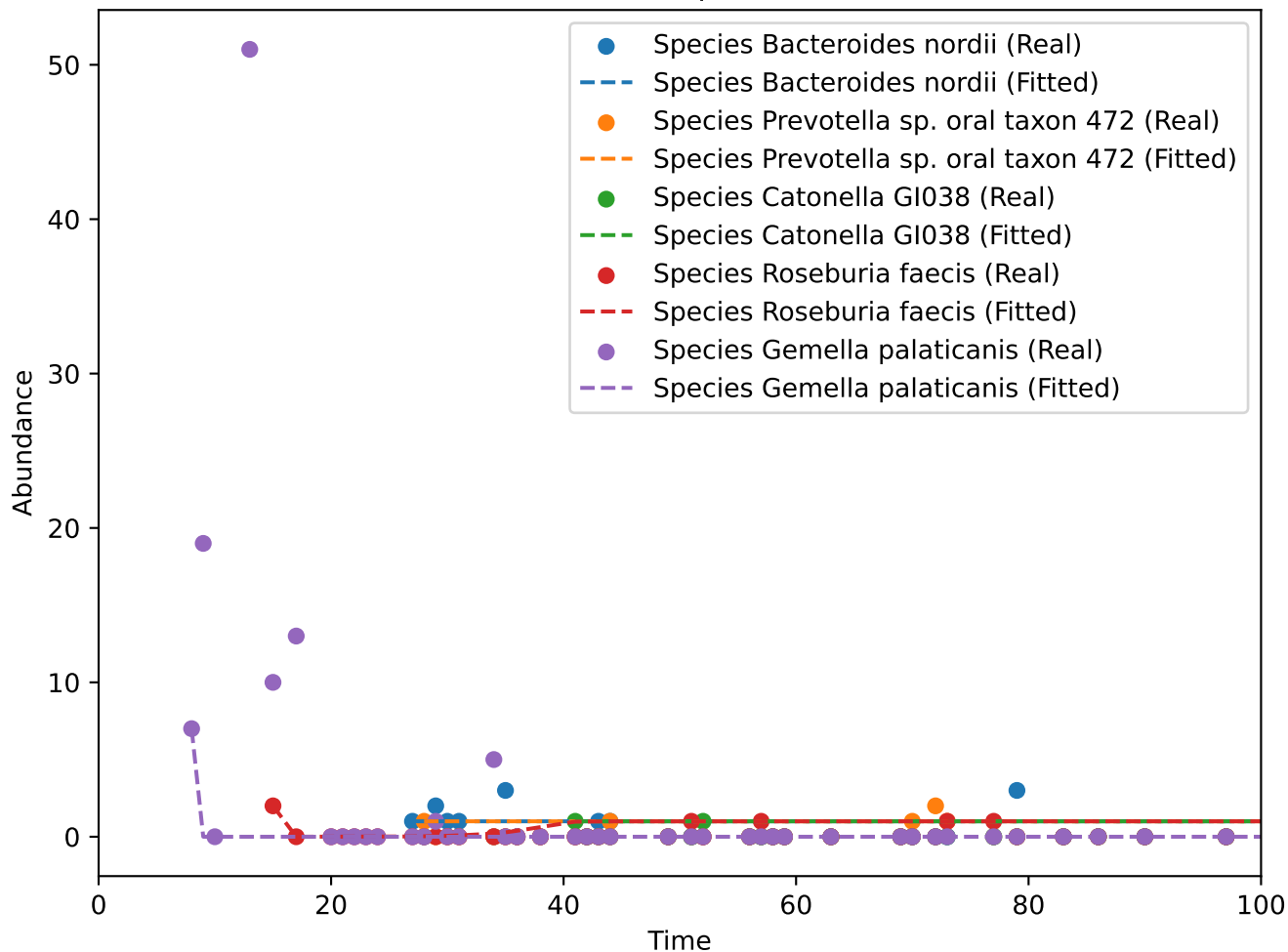
[illegible]



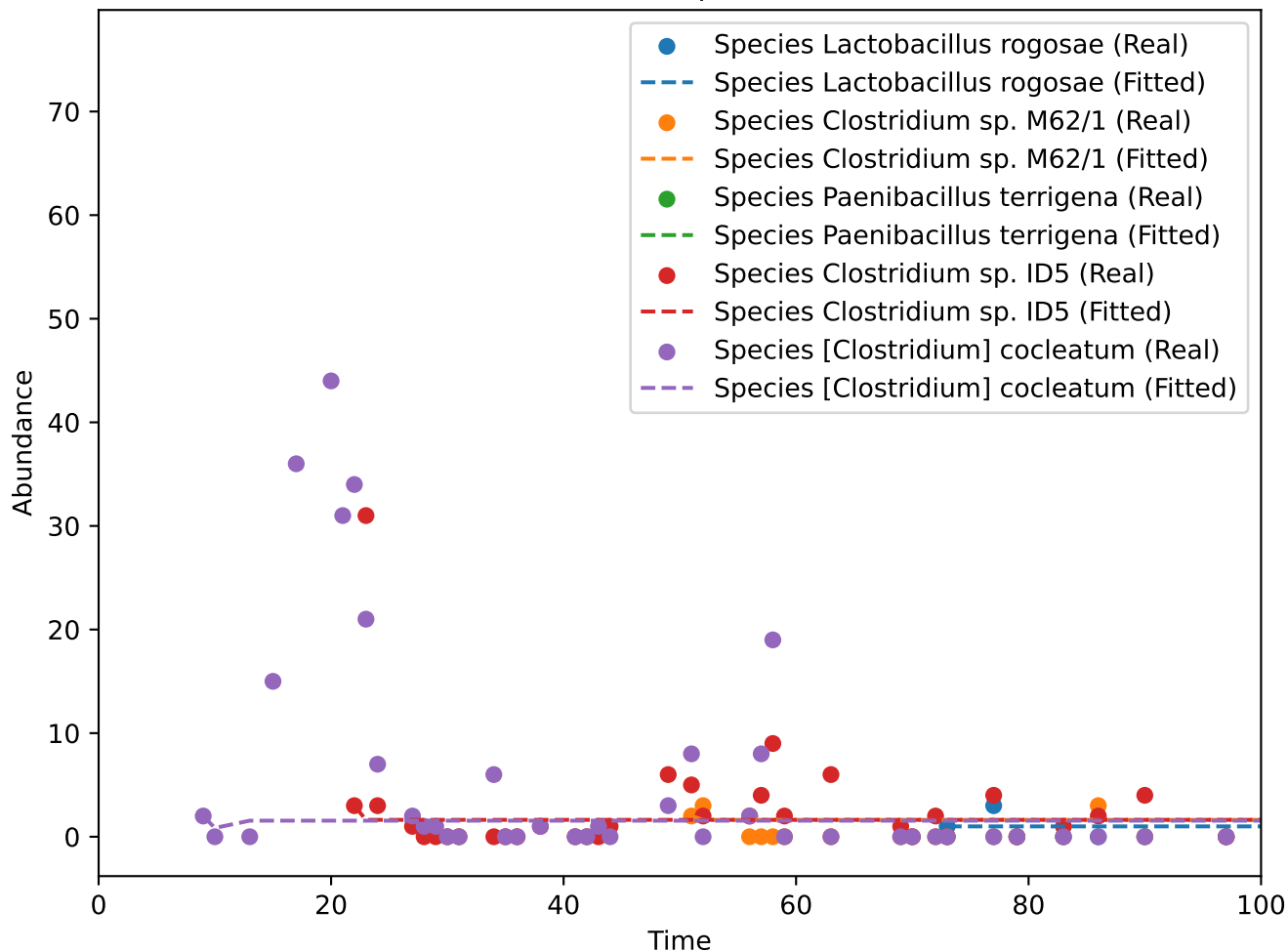
Mouse 5 - Species Fit



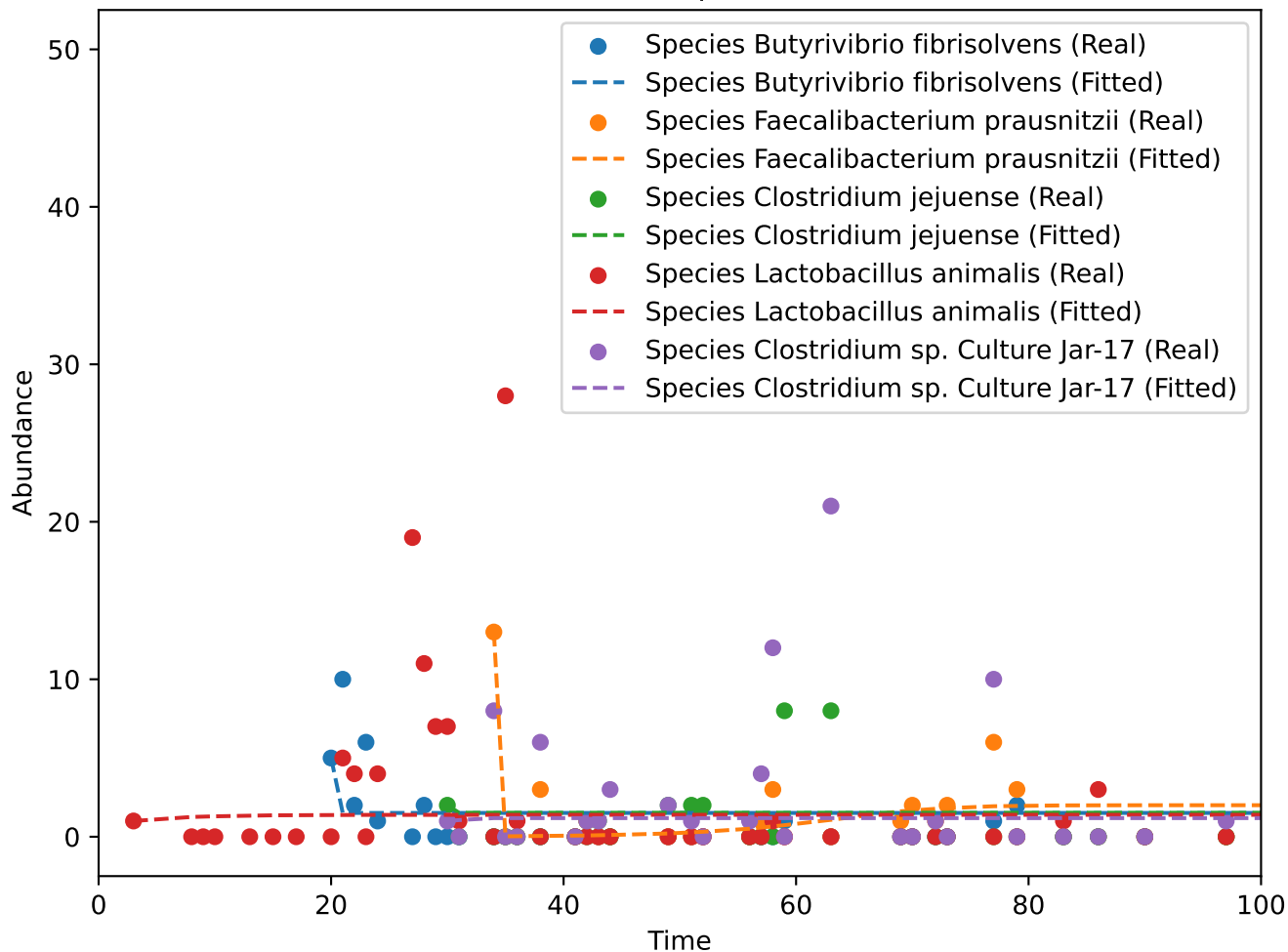
Mouse 5 - Species Fit



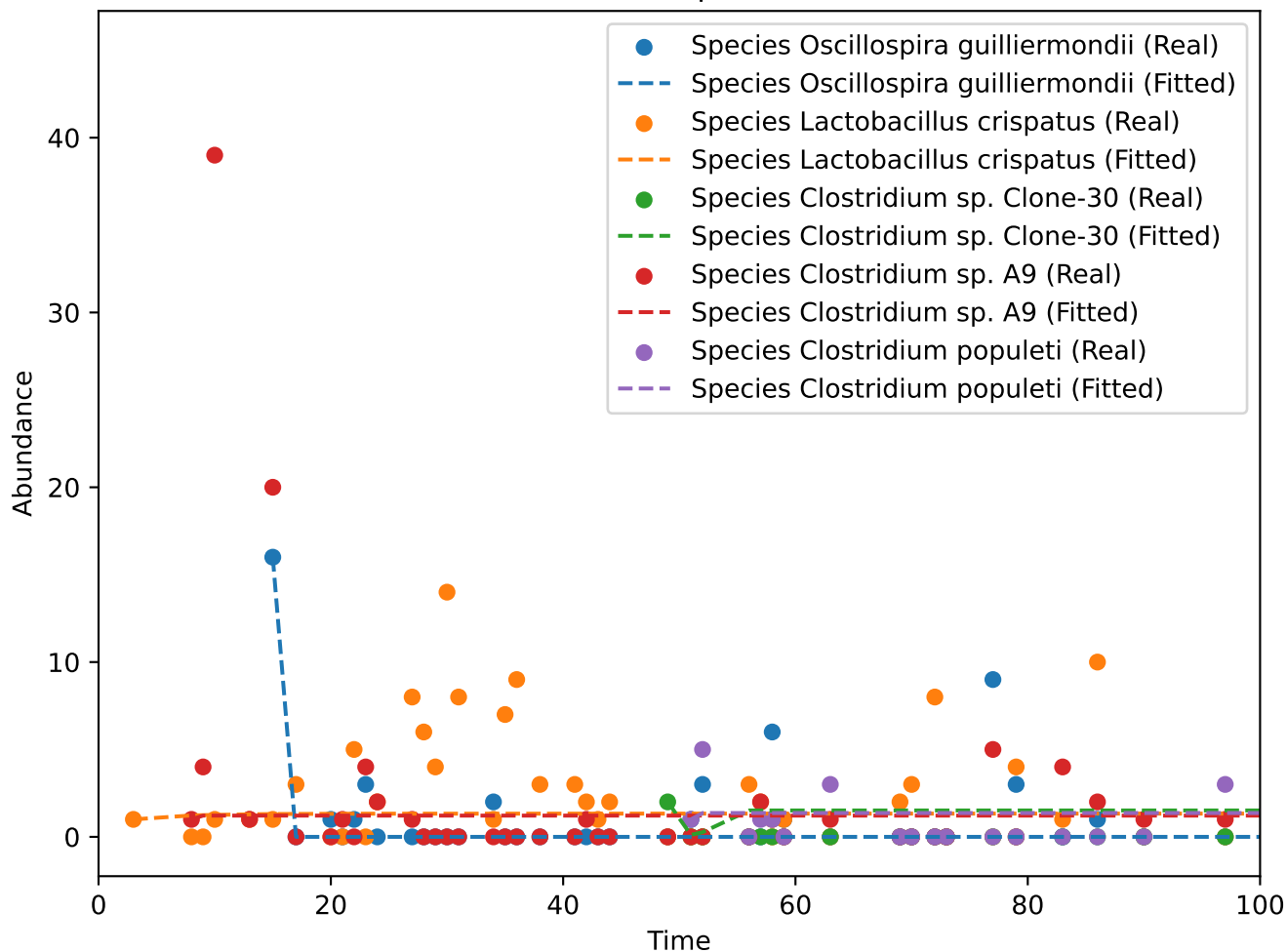
Mouse 5 - Species Fit



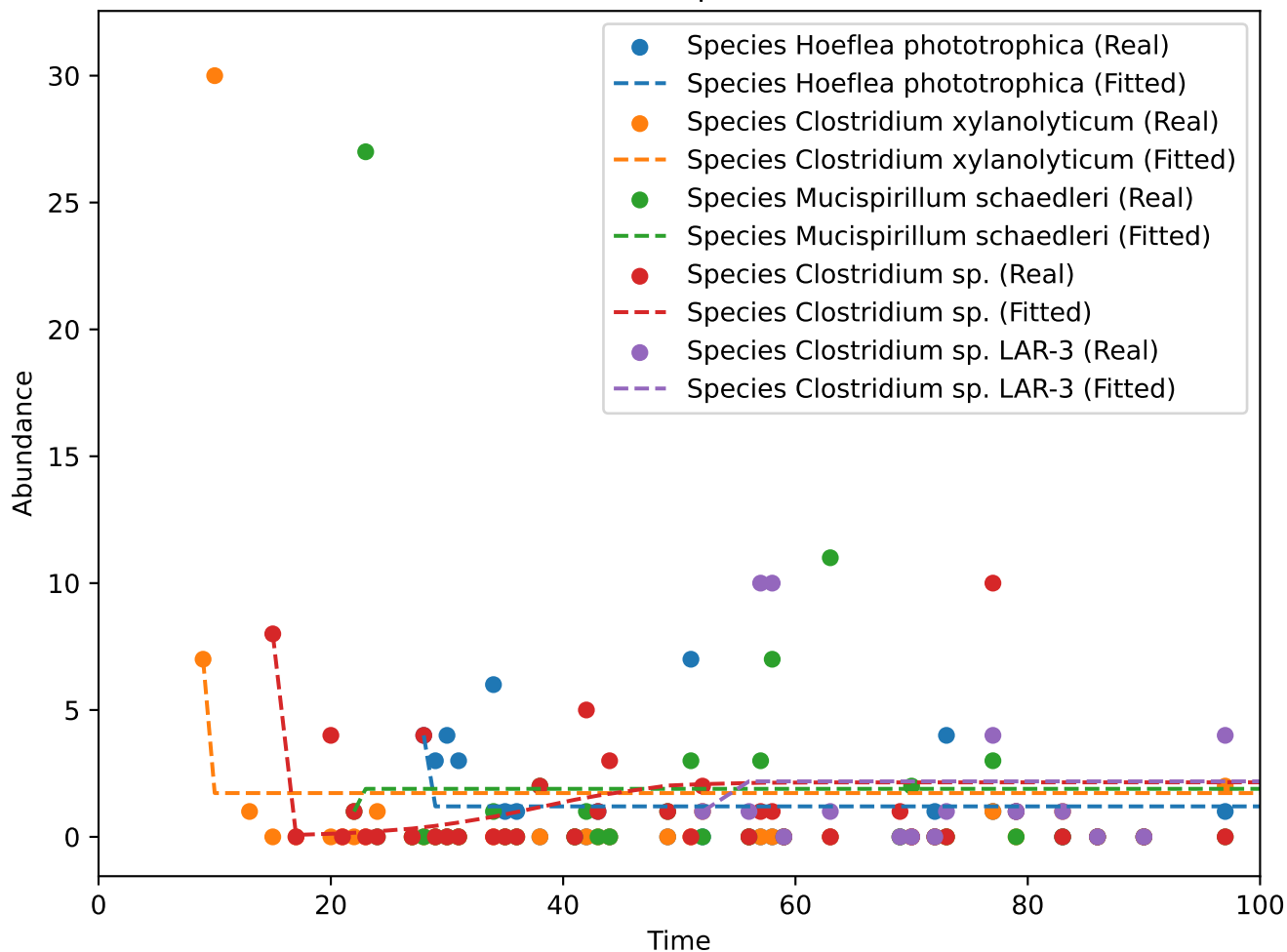
Mouse 5 - Species Fit



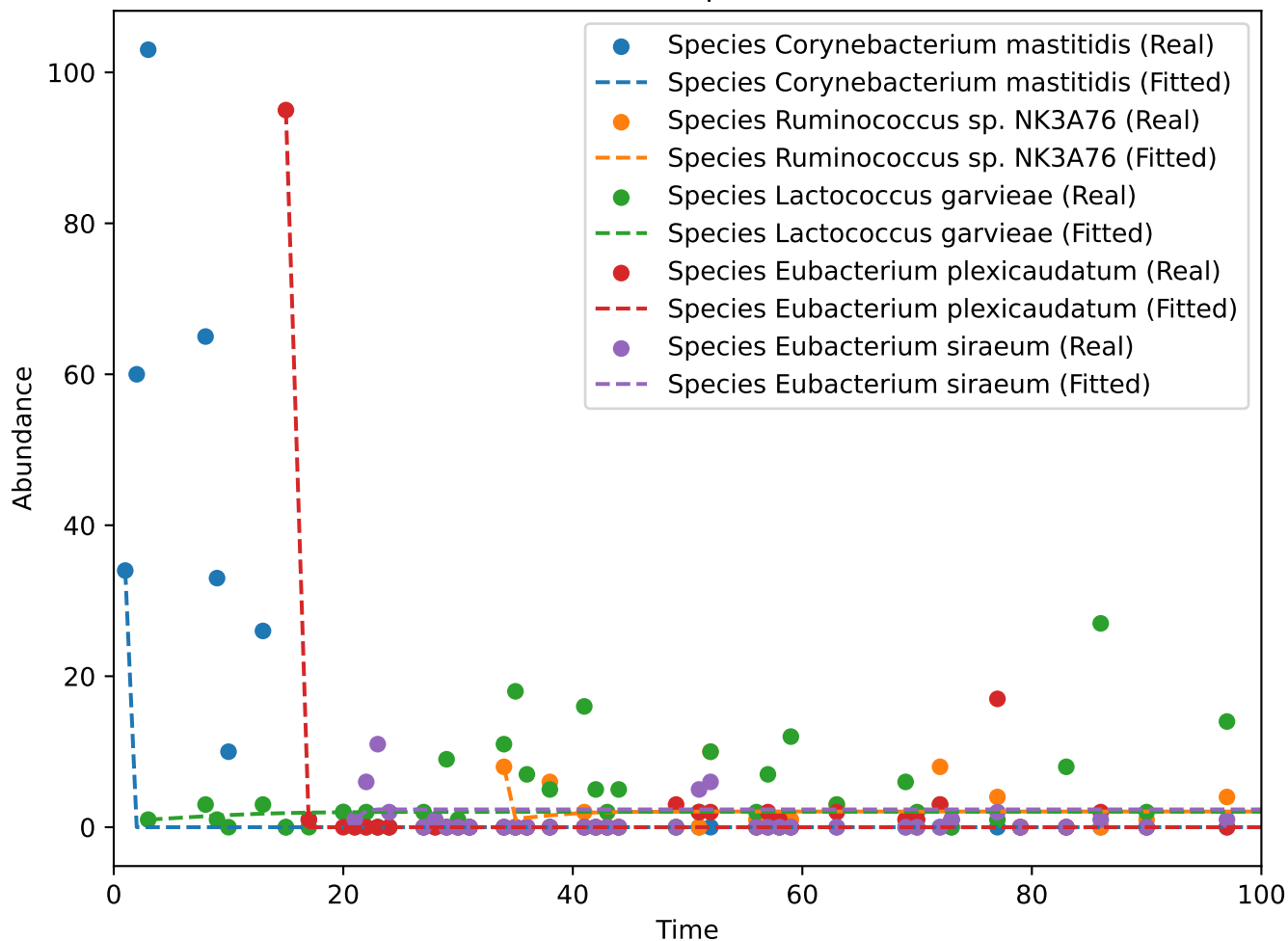
Mouse 5 - Species Fit

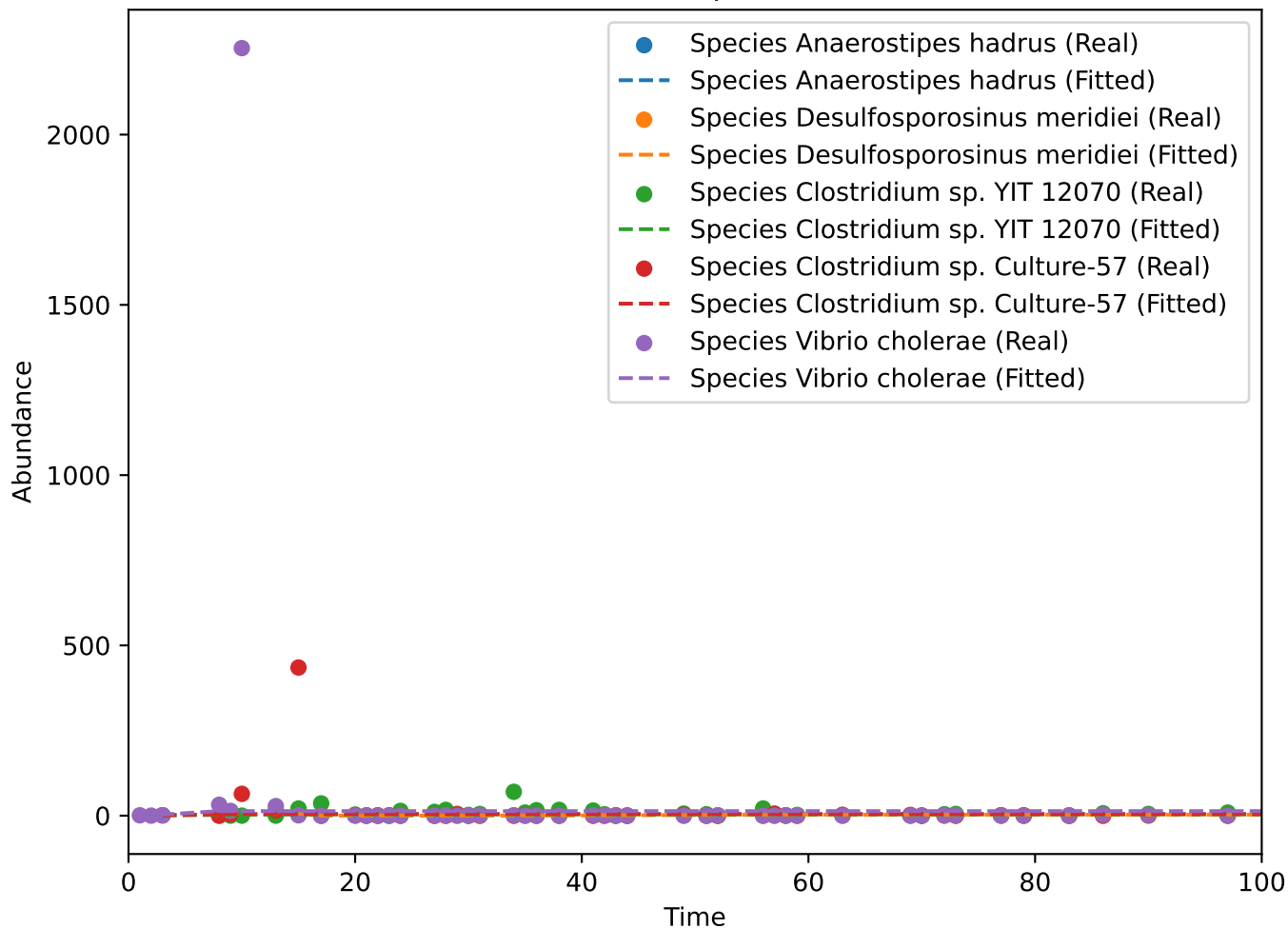


Mouse 5 - Species Fit

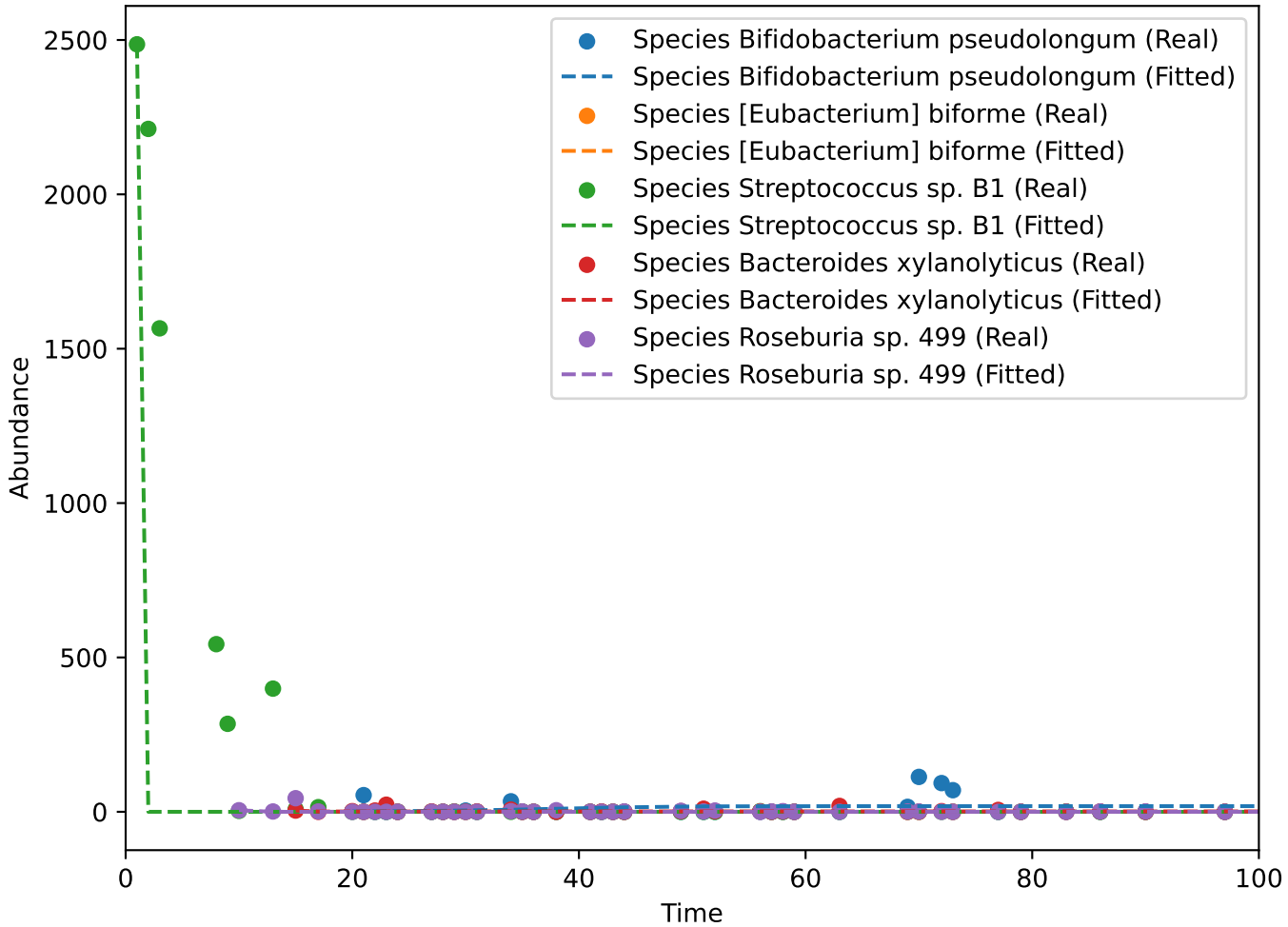


Mouse 5 - Species Fit

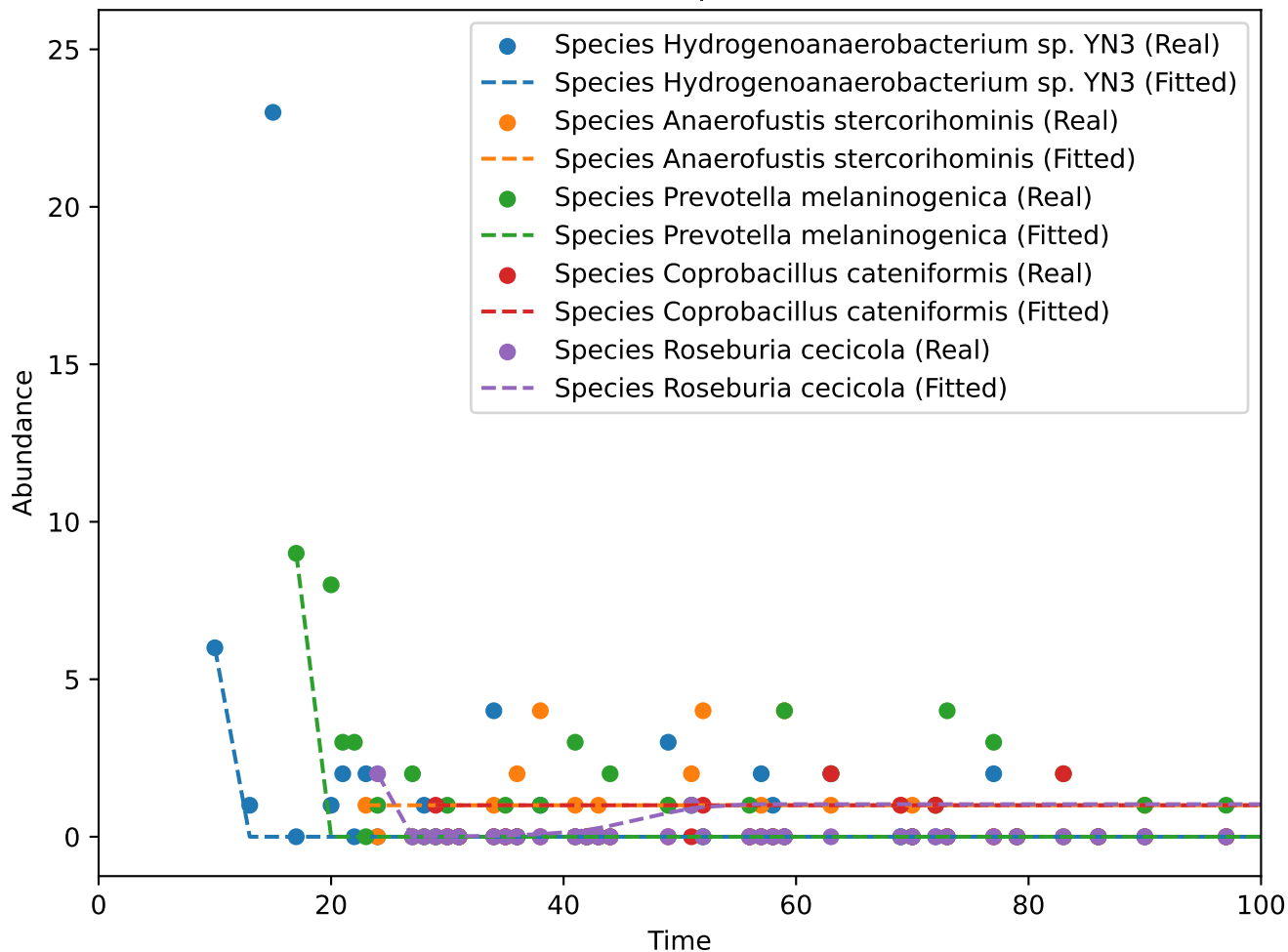




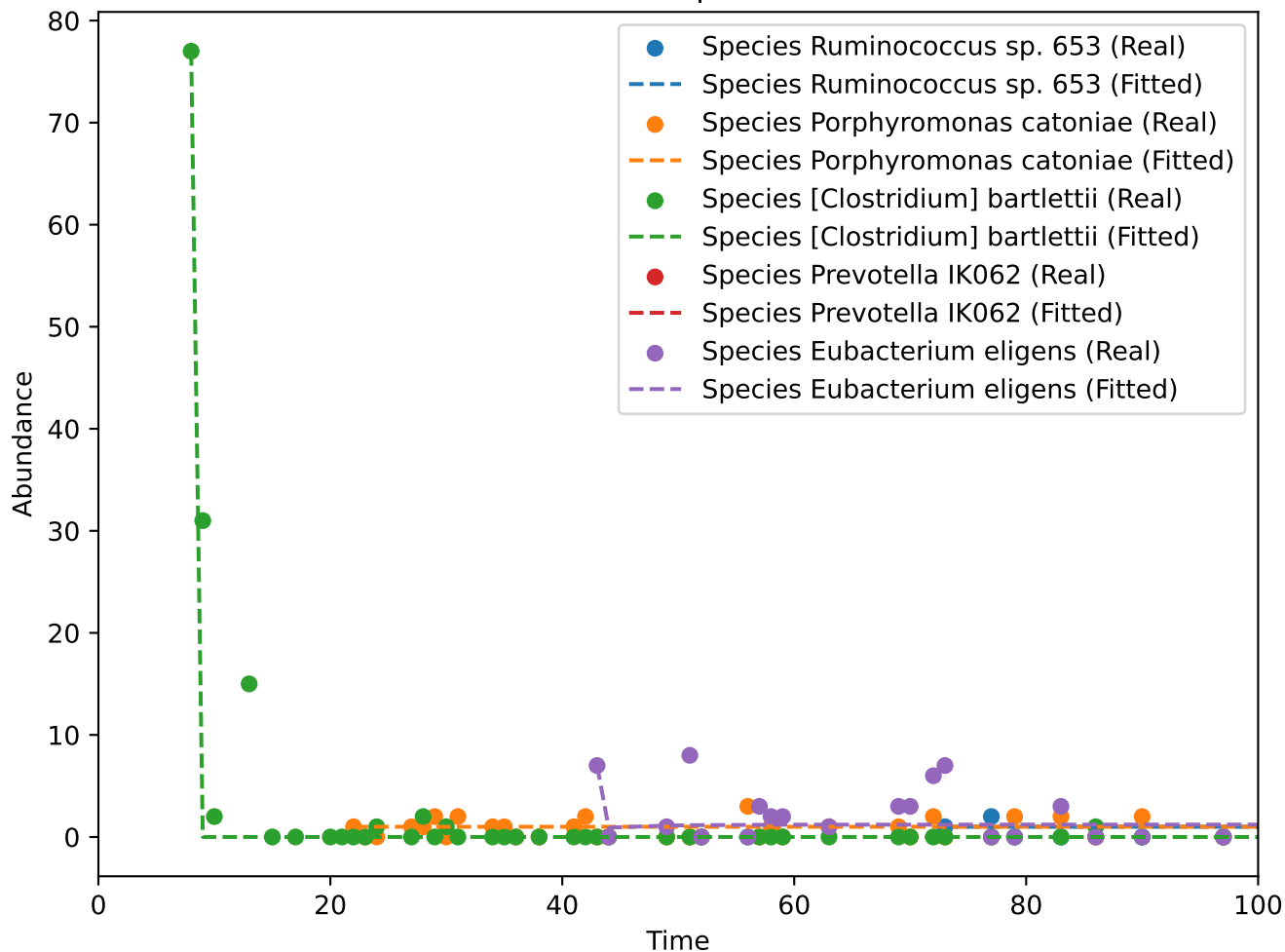
Mouse 5 - Species Fit



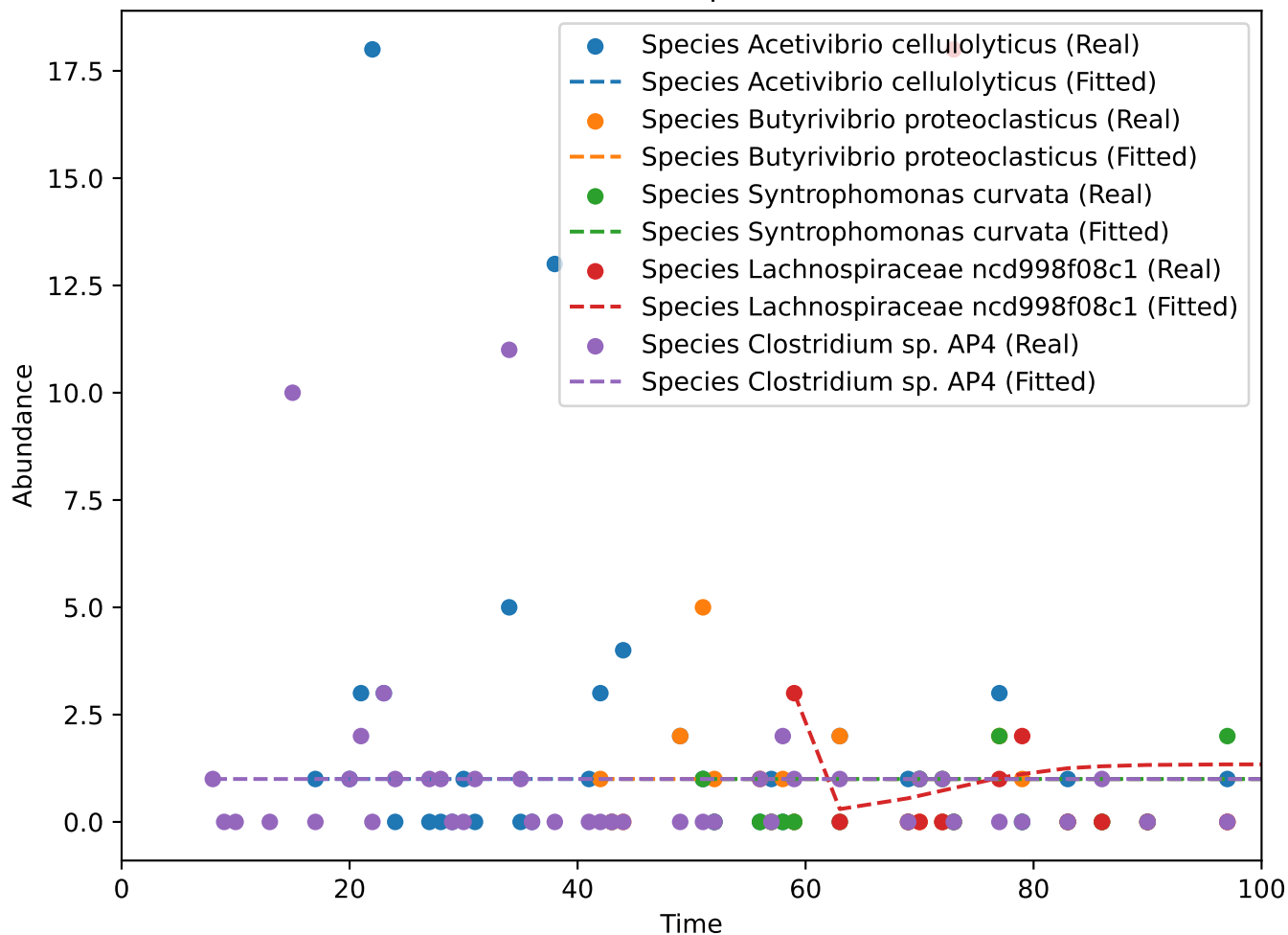
Mouse 5 - Species Fit



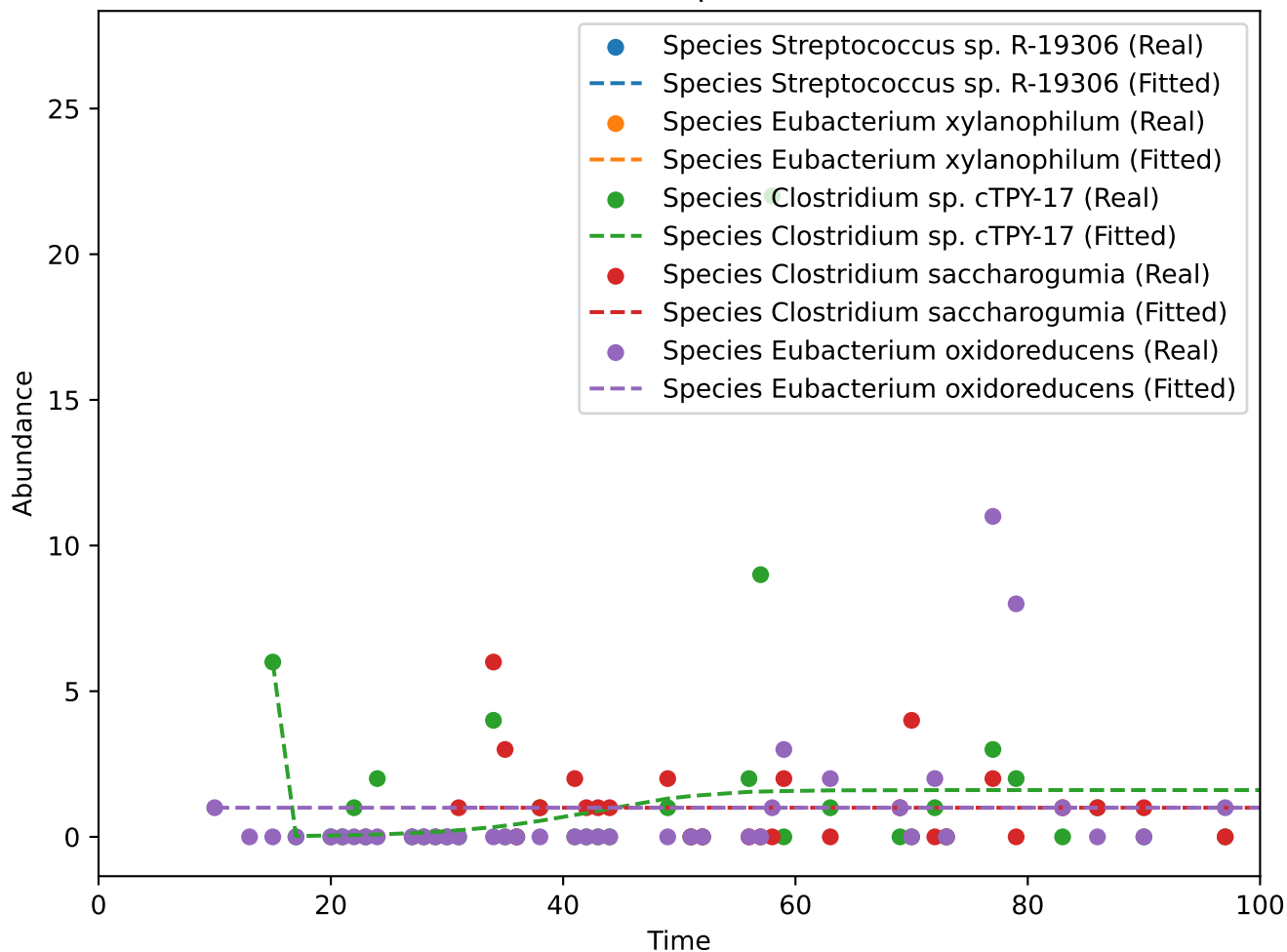
Mouse 5 - Species Fit



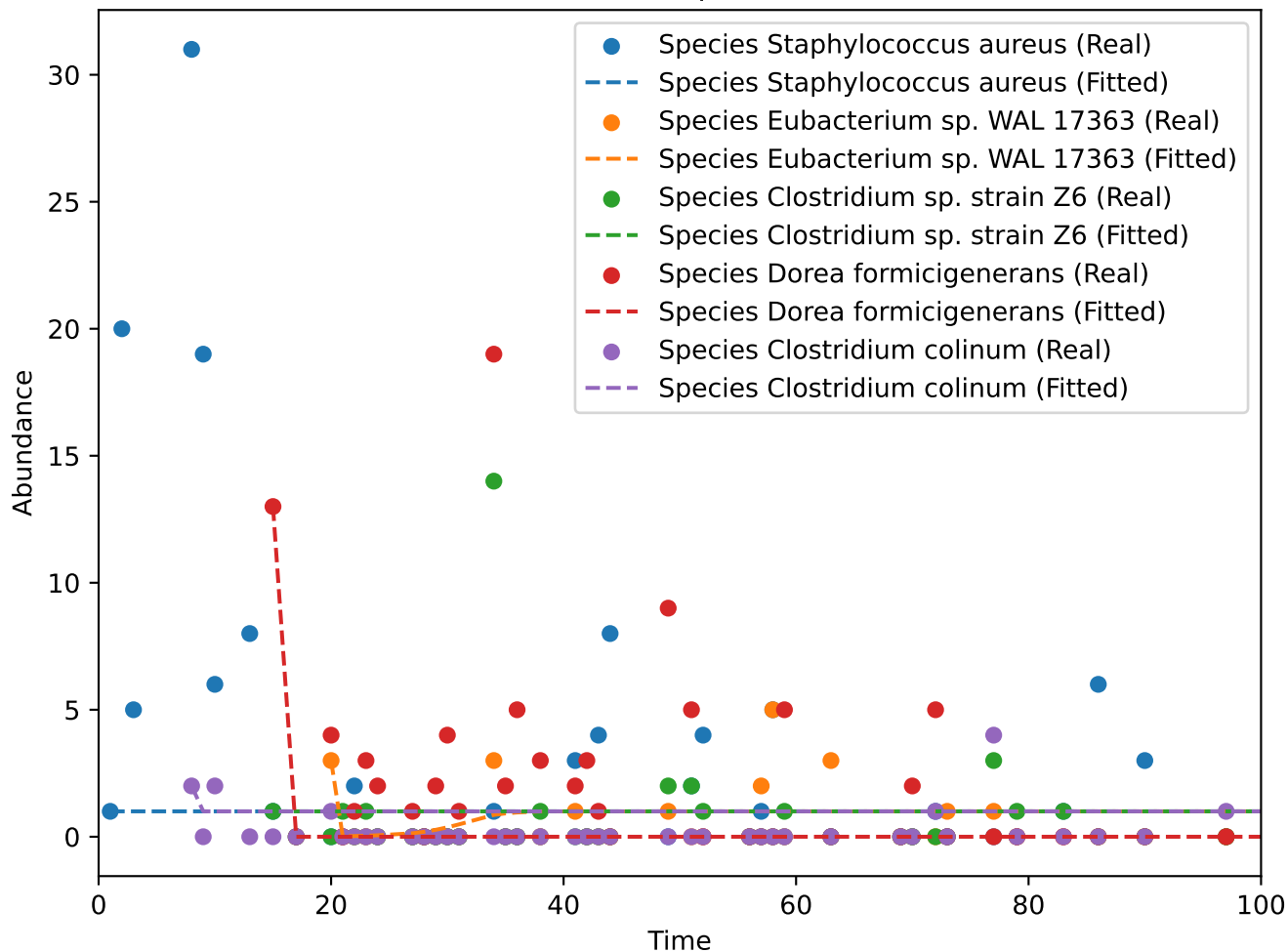
Mouse 5 - Species Fit



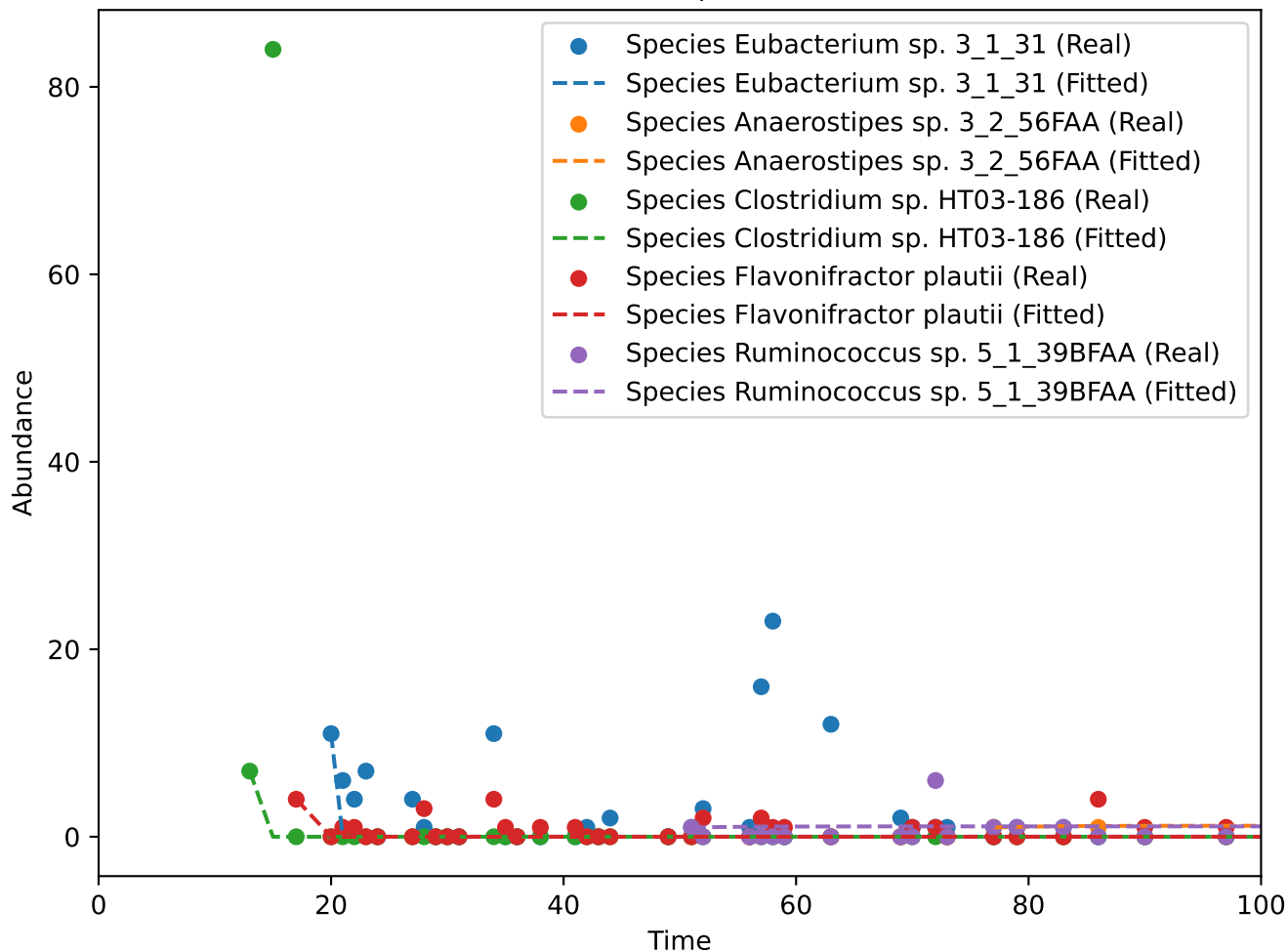
Mouse 5 - Species Fit



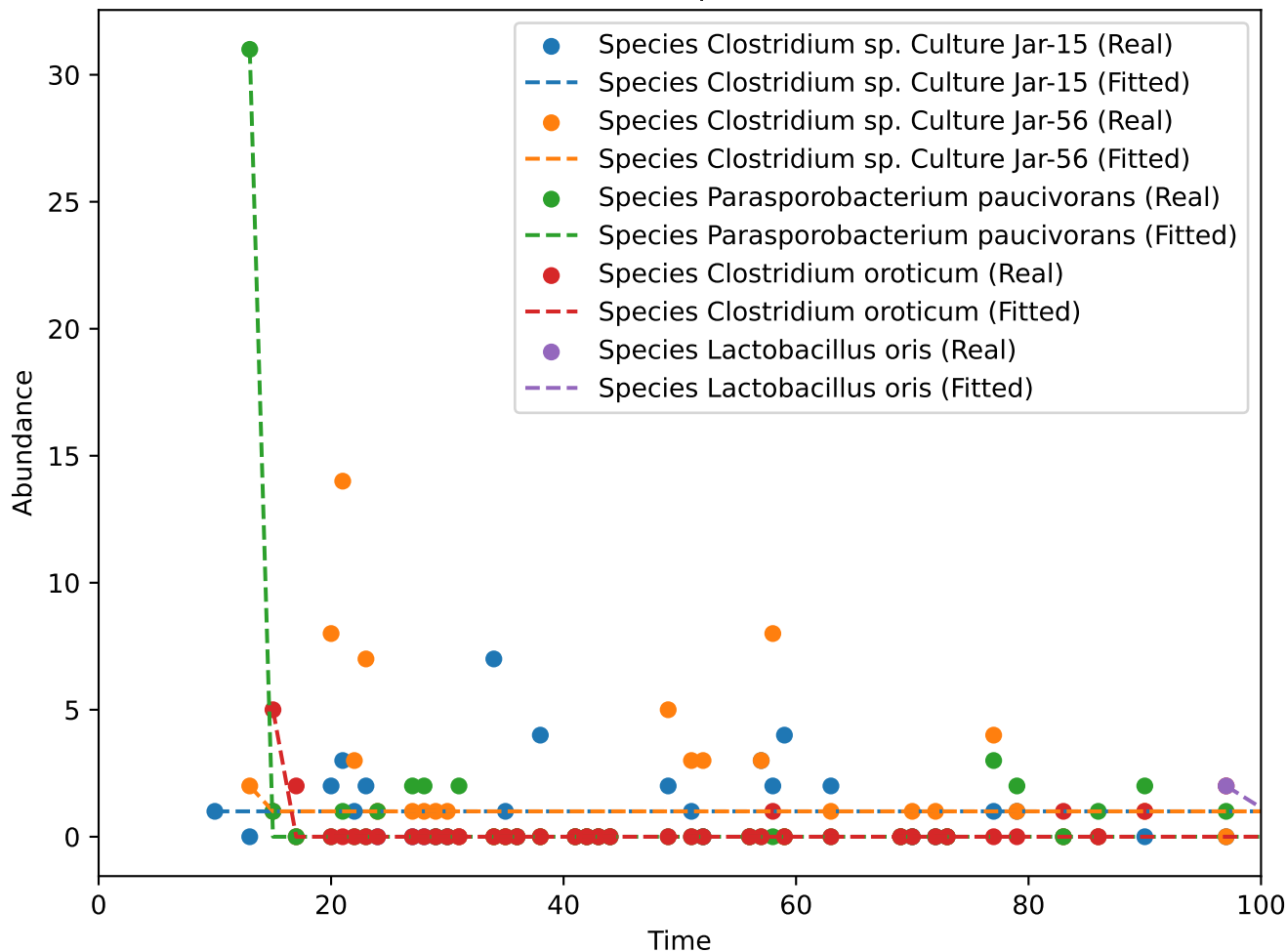
Mouse 5 - Species Fit



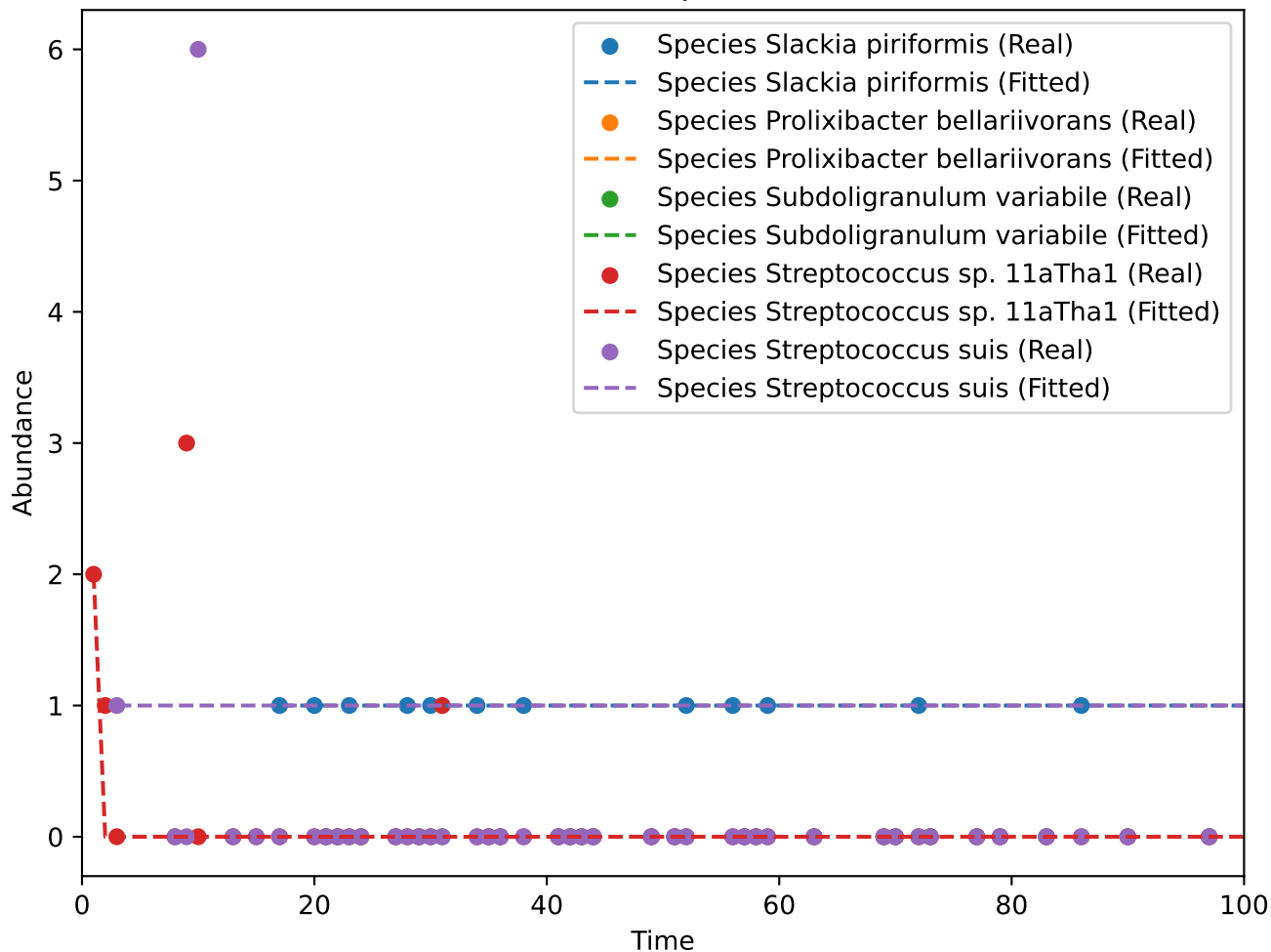
Mouse 5 - Species Fit



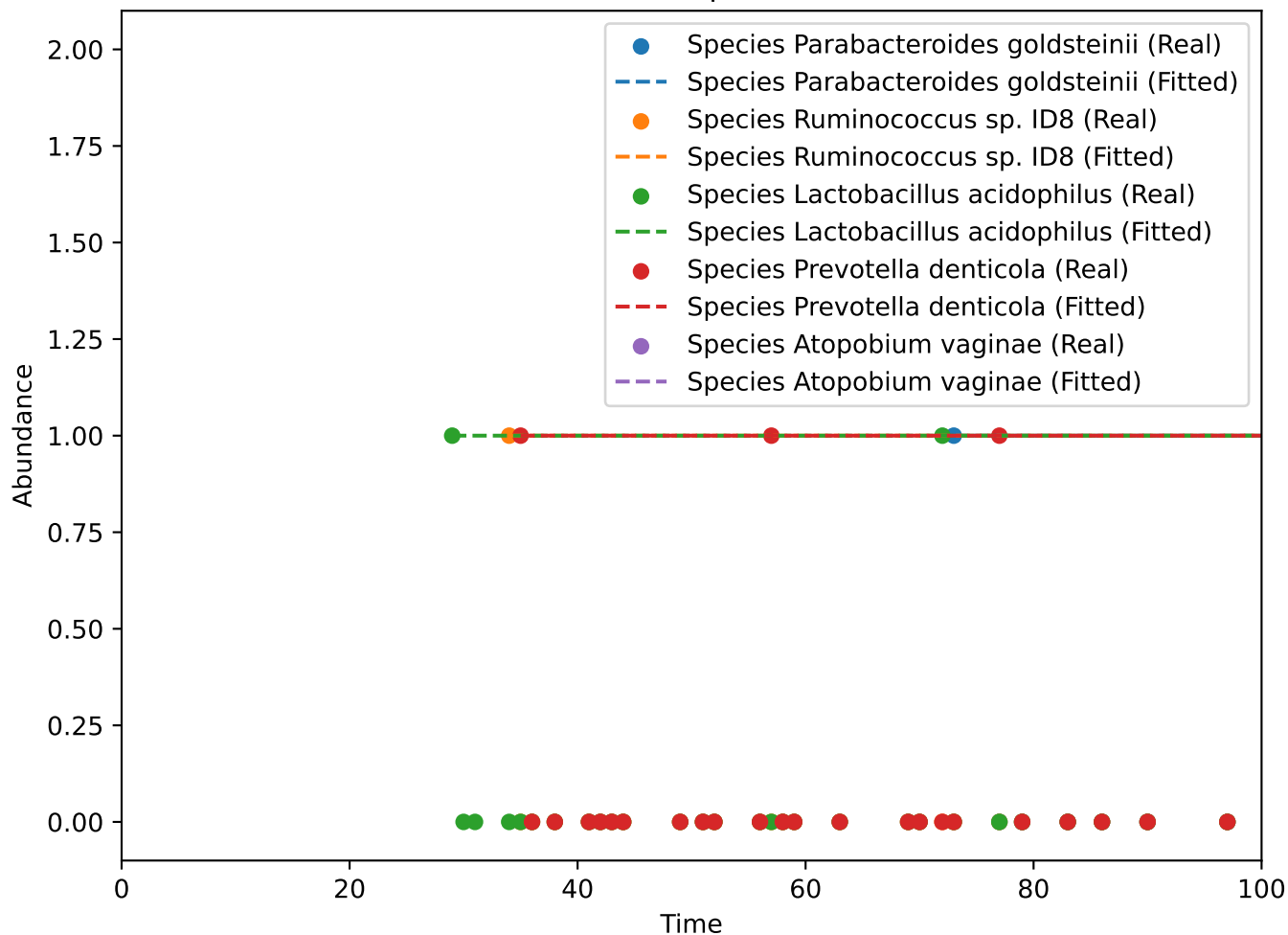
Mouse 5 - Species Fit

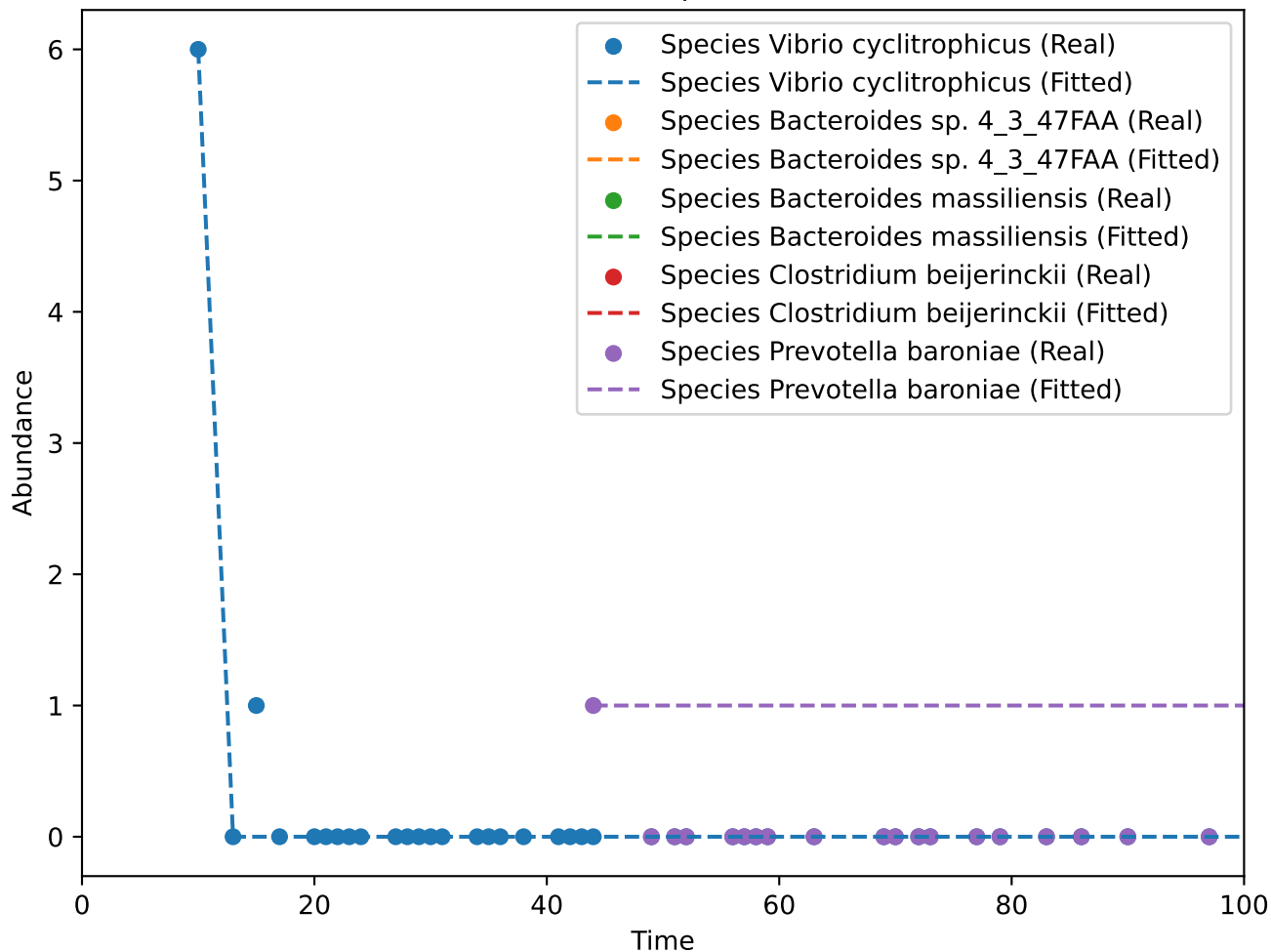


Mouse 5 - Species Fit



Mouse 5 - Species Fit





Species Caldanaerobacter sp. TC18 (Real)

Species Caldanaerobacter sp. TC18 (Fitted)

Species Clostridium sp. 7_3_54FAA (Real)

Species Clostridium sp. 7_3_54FAA (Fitted)

Species Clostridium sp. BG-C36 (Real)

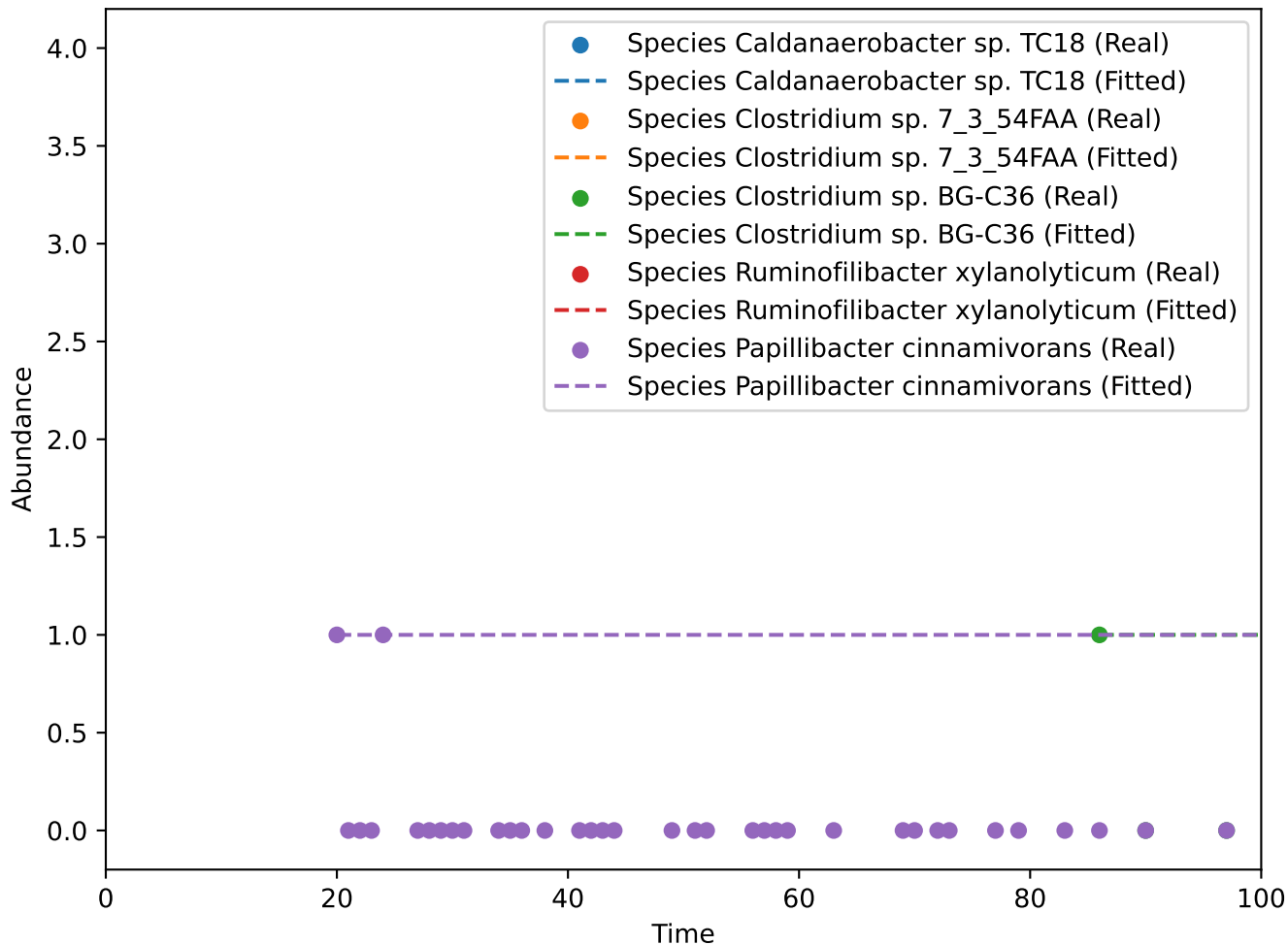
Species Clostridium sp. BG-C36 (Fitted)

Species Ruminofilibacter xylanolyticum (Real)

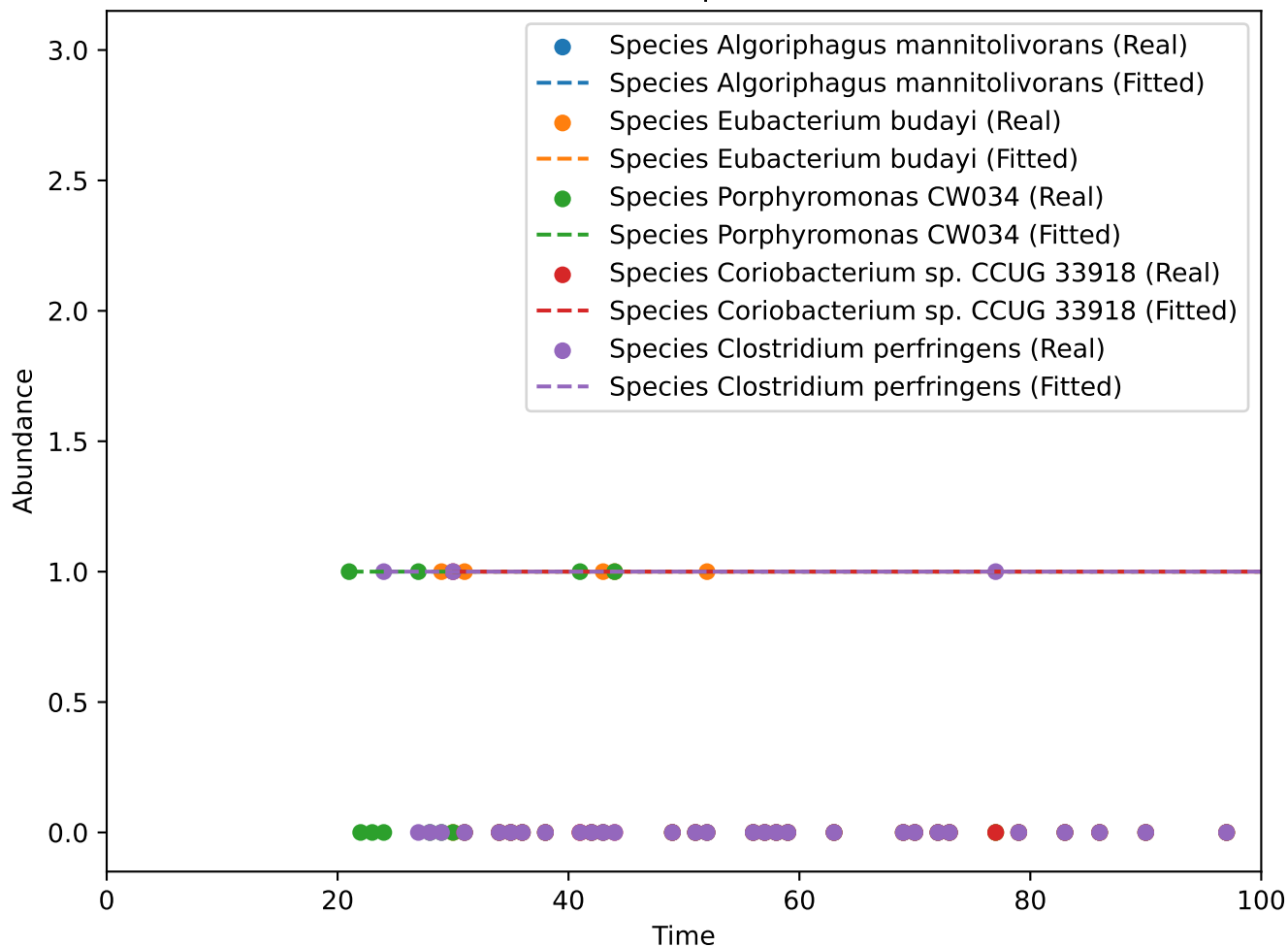
Species Ruminofilibacter xylanolyticum (Fitted)

Species Papillibacter cinnamivorans (Real)

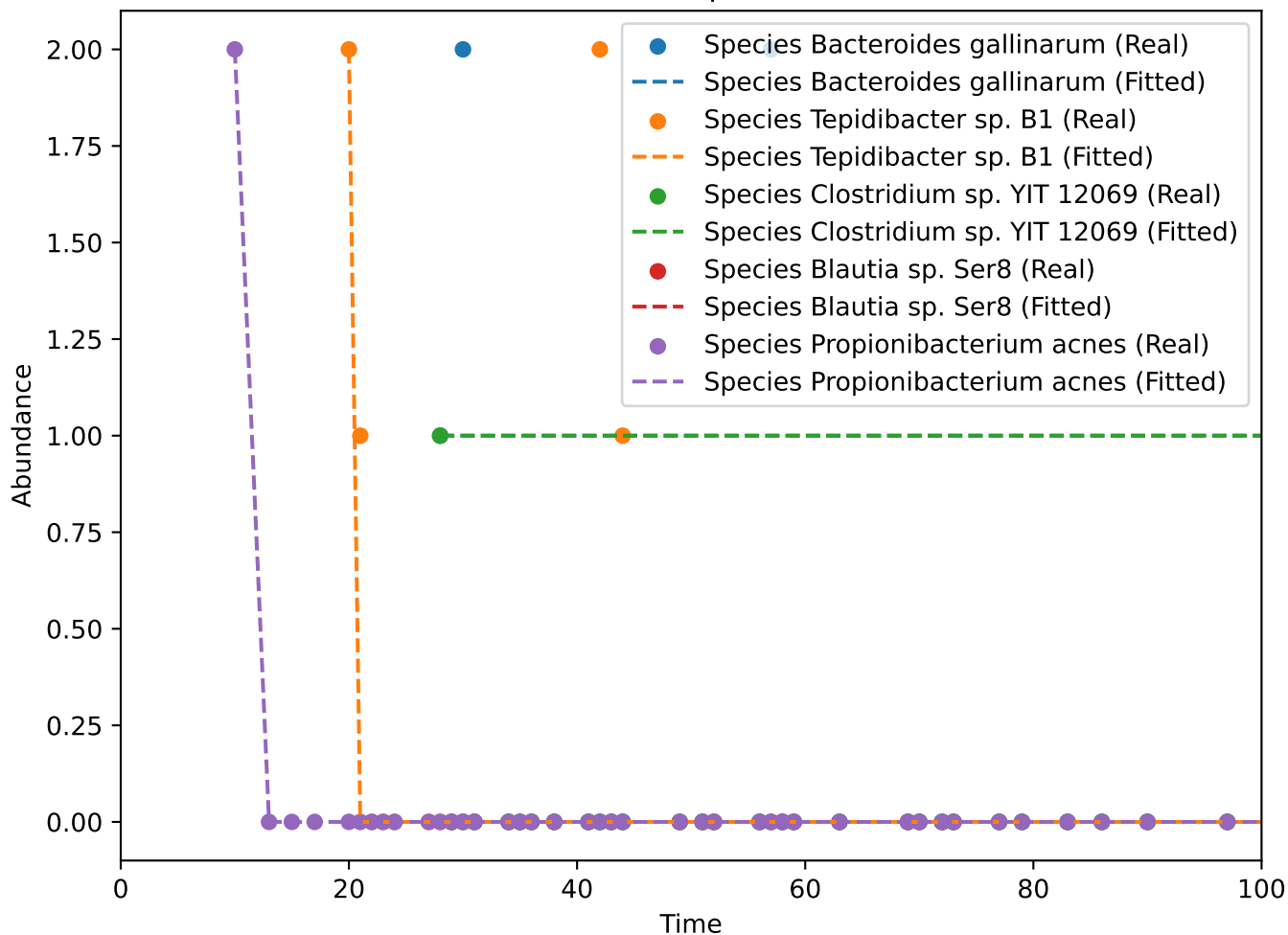
Species Papillibacter cinnamivorans (Fitted)



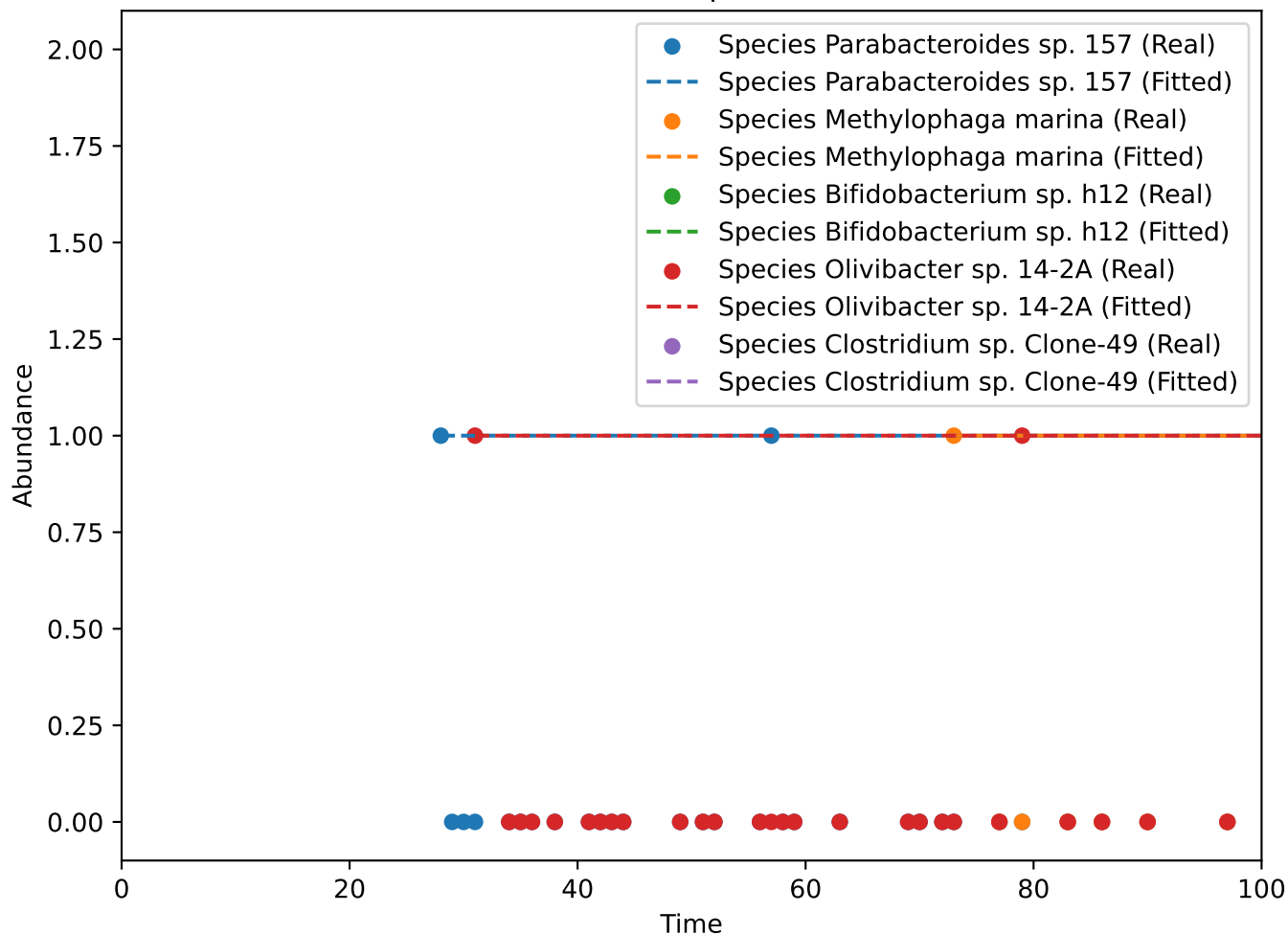
Mouse 5 - Species Fit



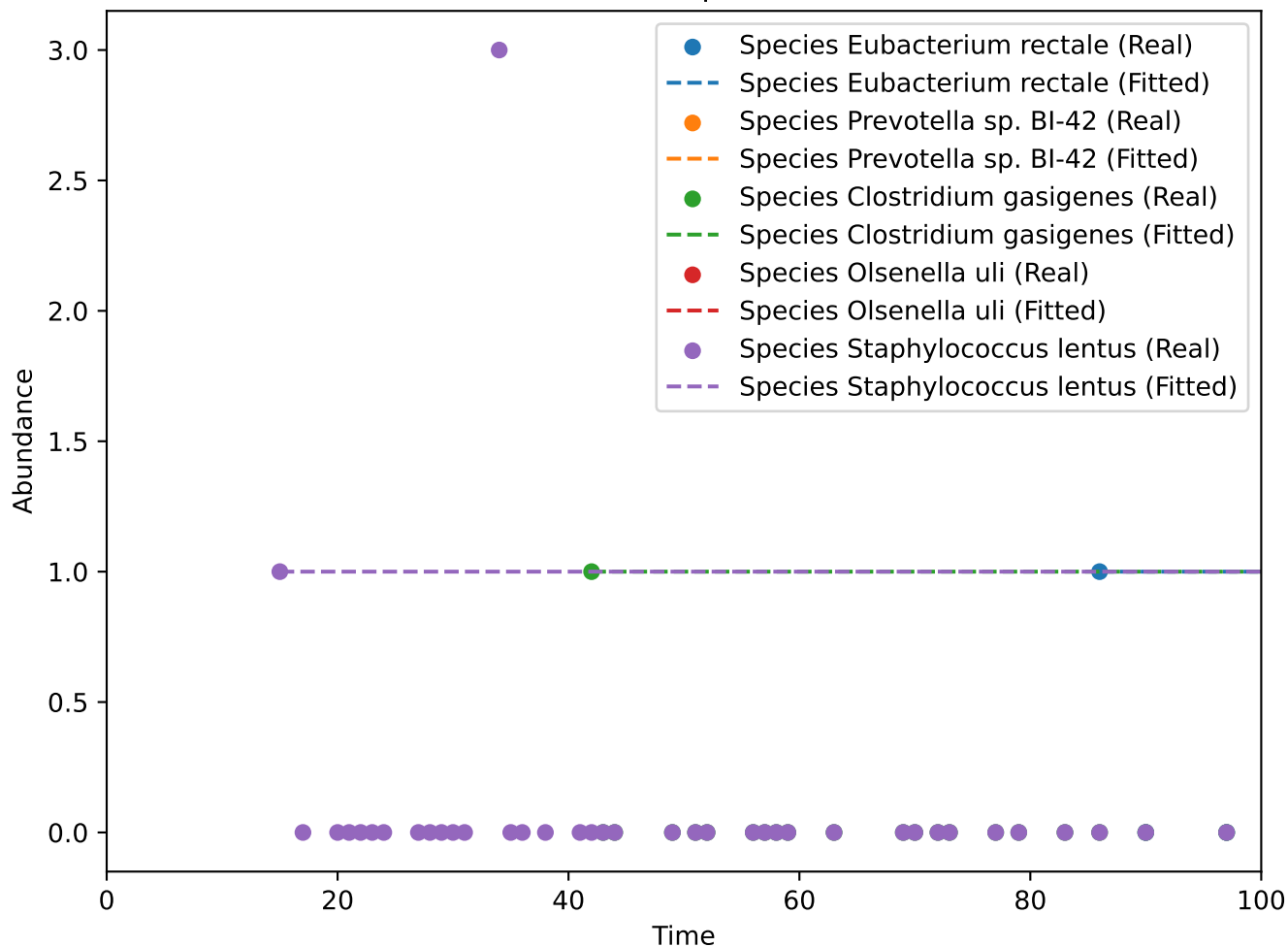
Mouse 5 - Species Fit



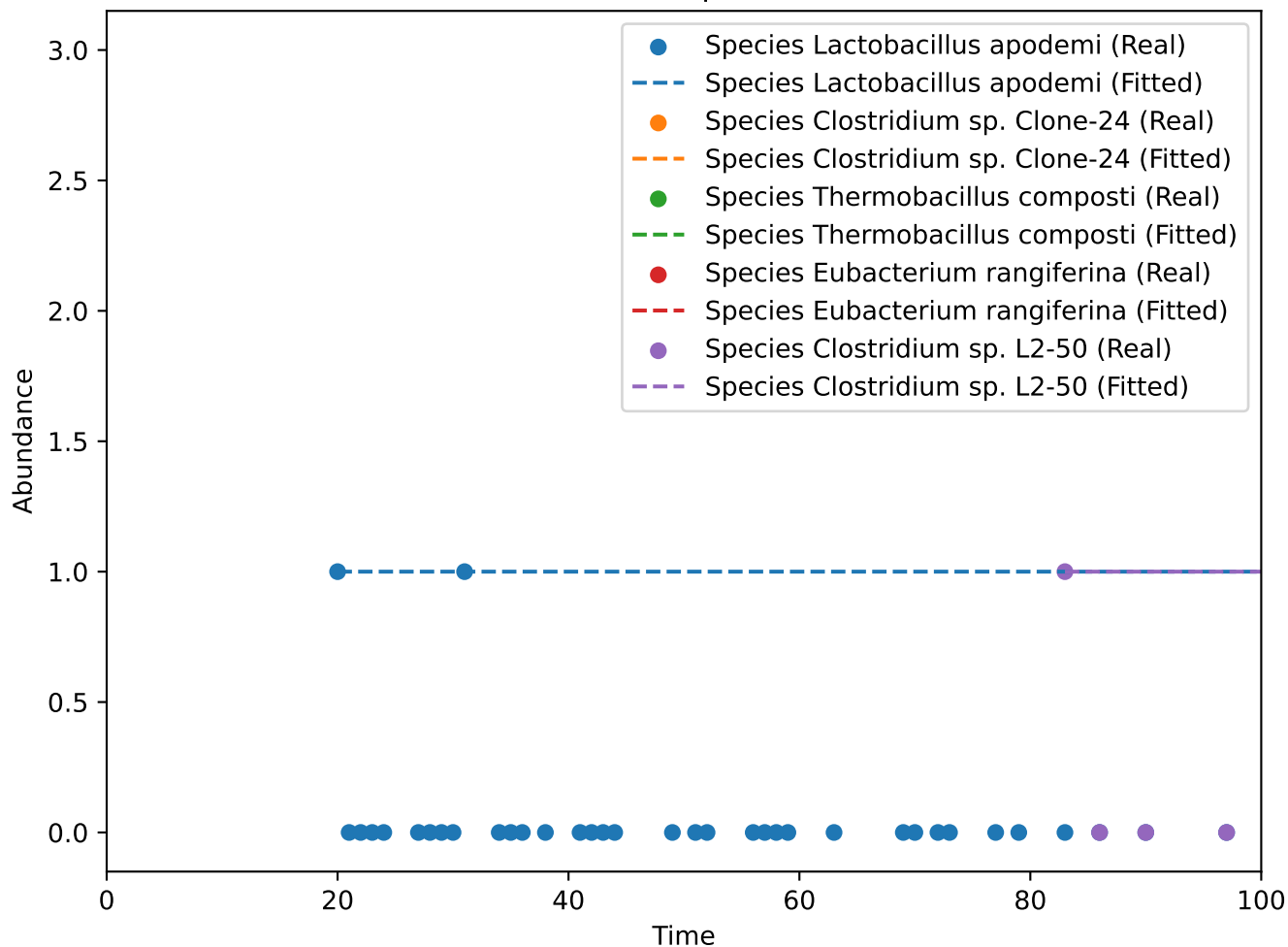
Mouse 5 - Species Fit



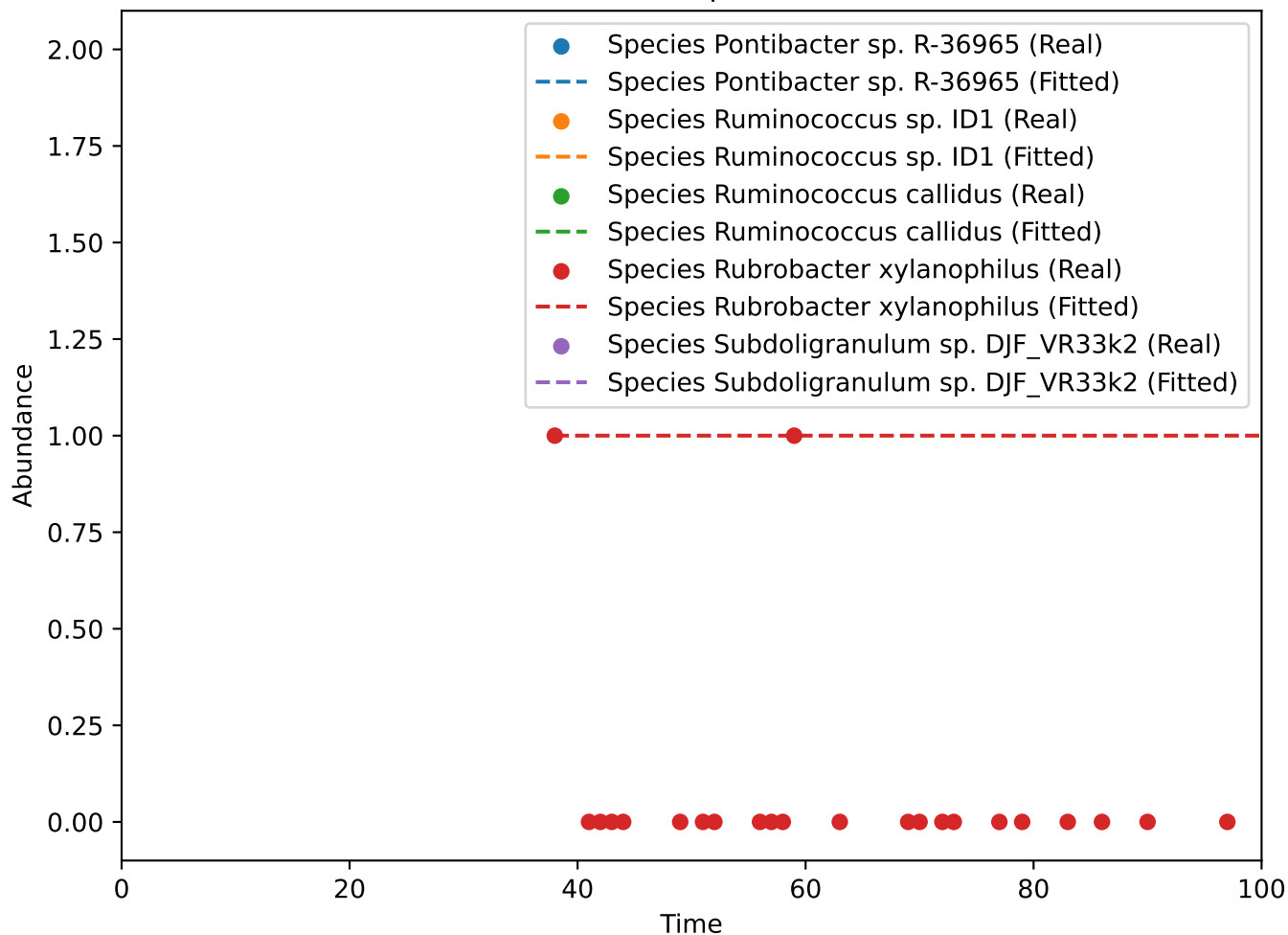
Mouse 5 - Species Fit



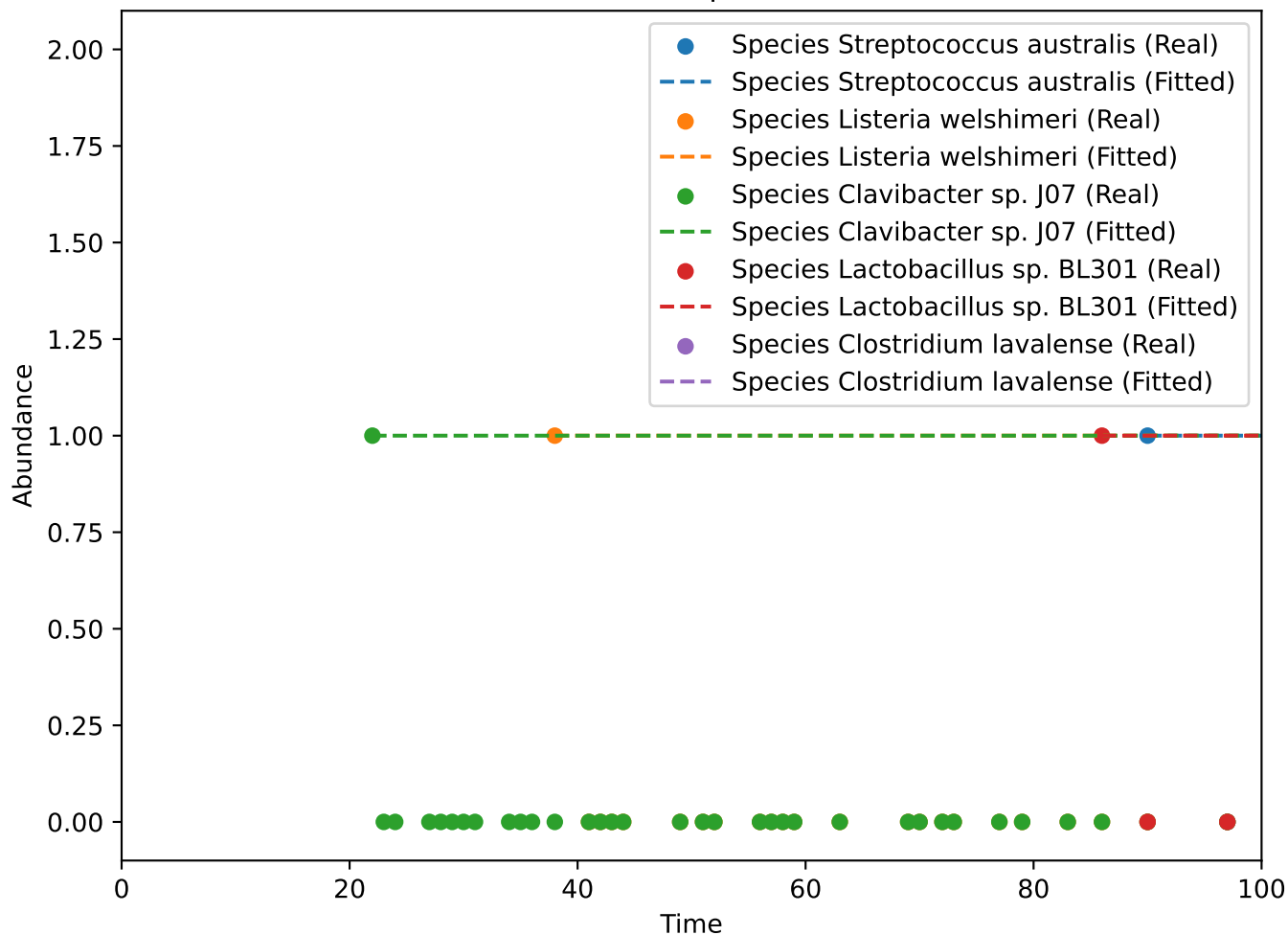
Mouse 5 - Species Fit

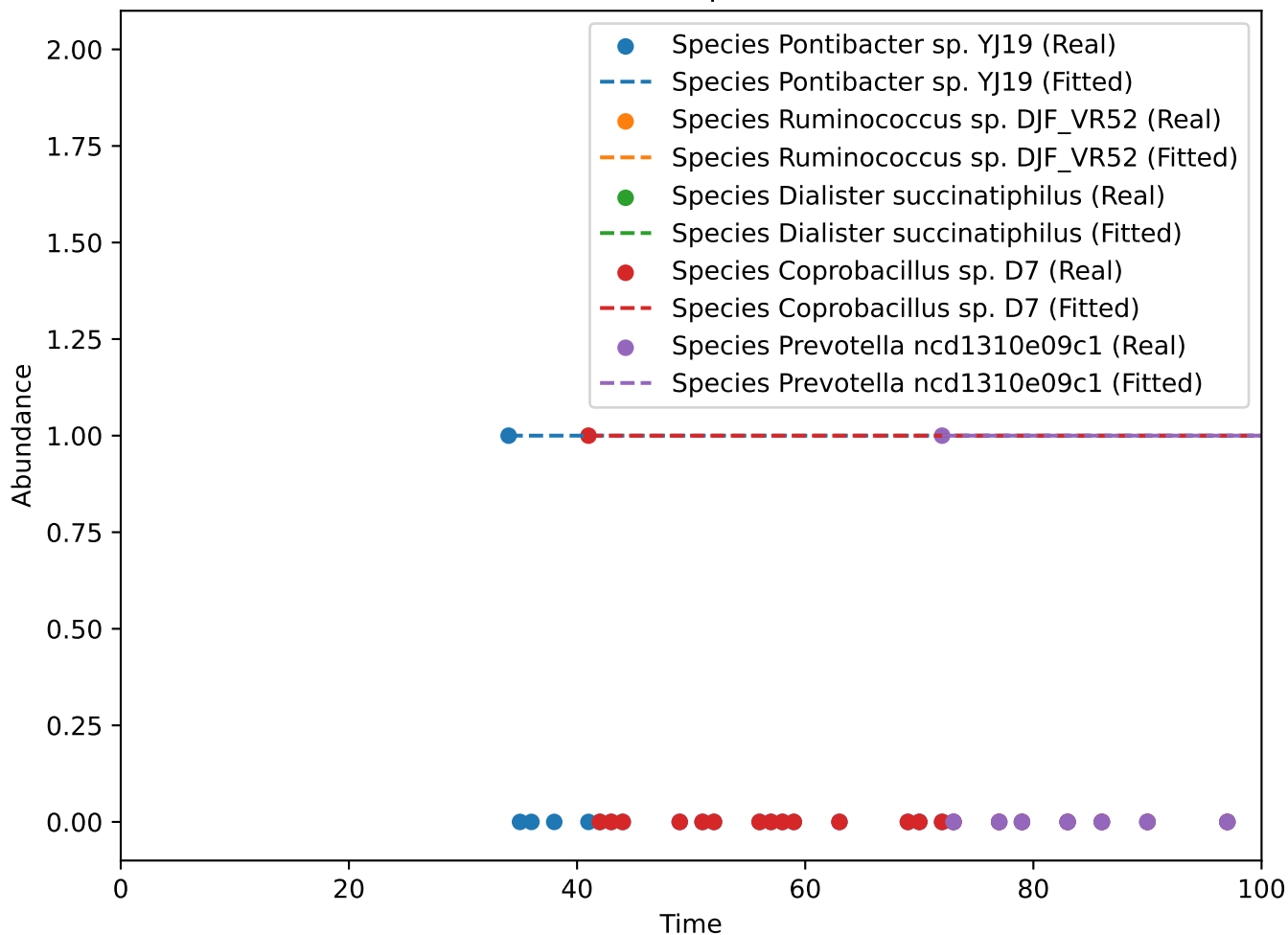


Mouse 5 - Species Fit

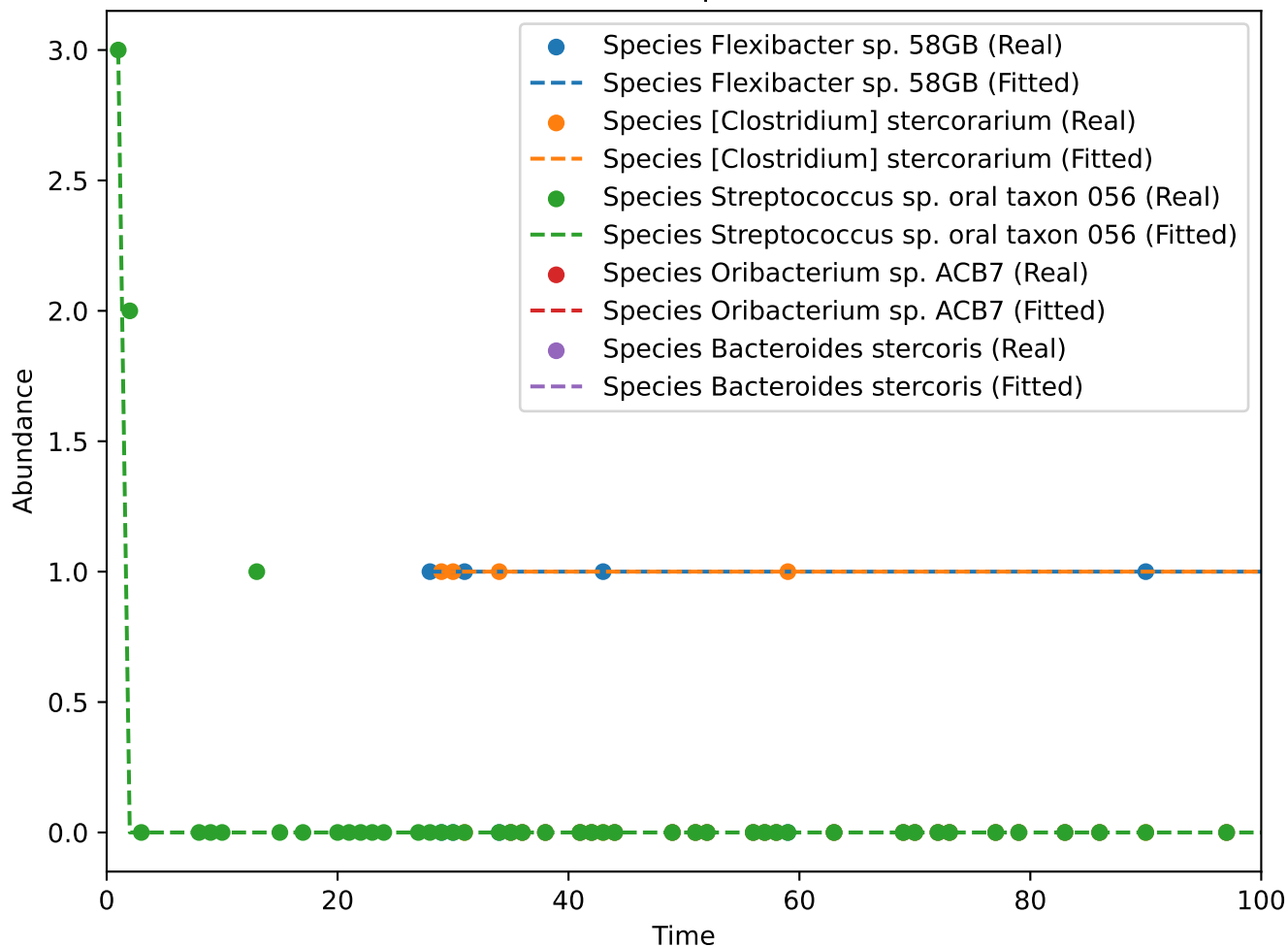


Mouse 5 - Species Fit

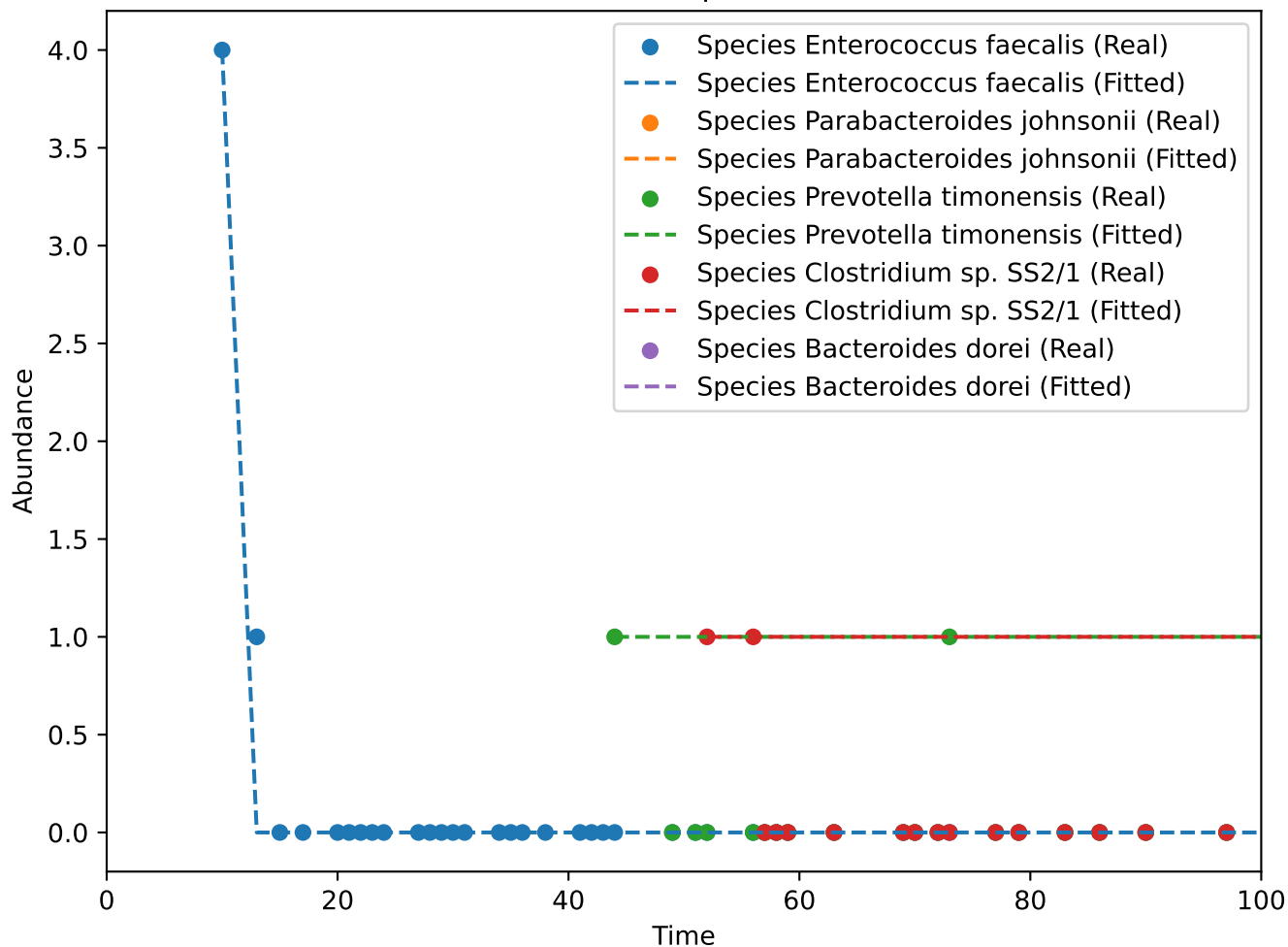




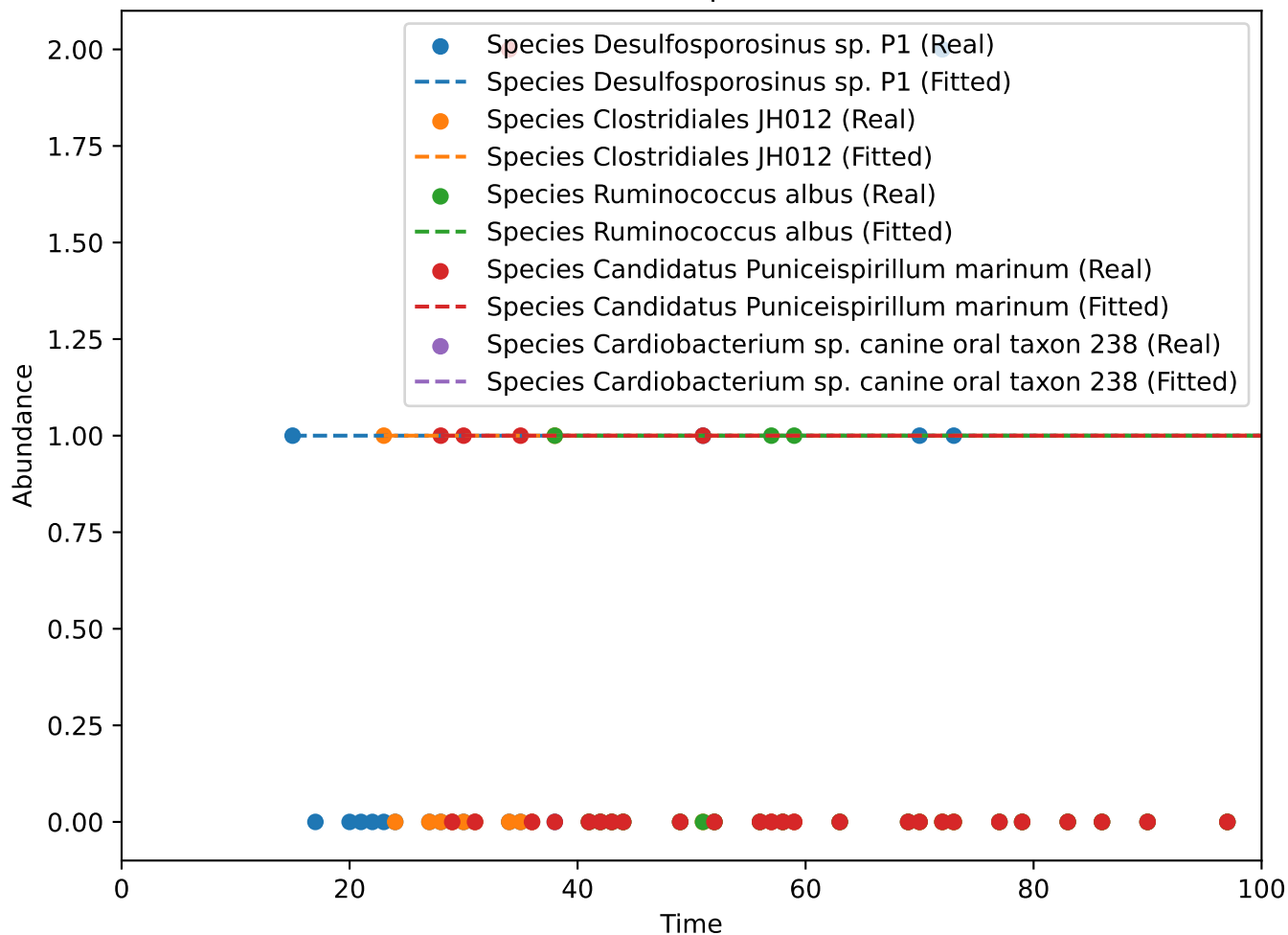
Mouse 5 - Species Fit



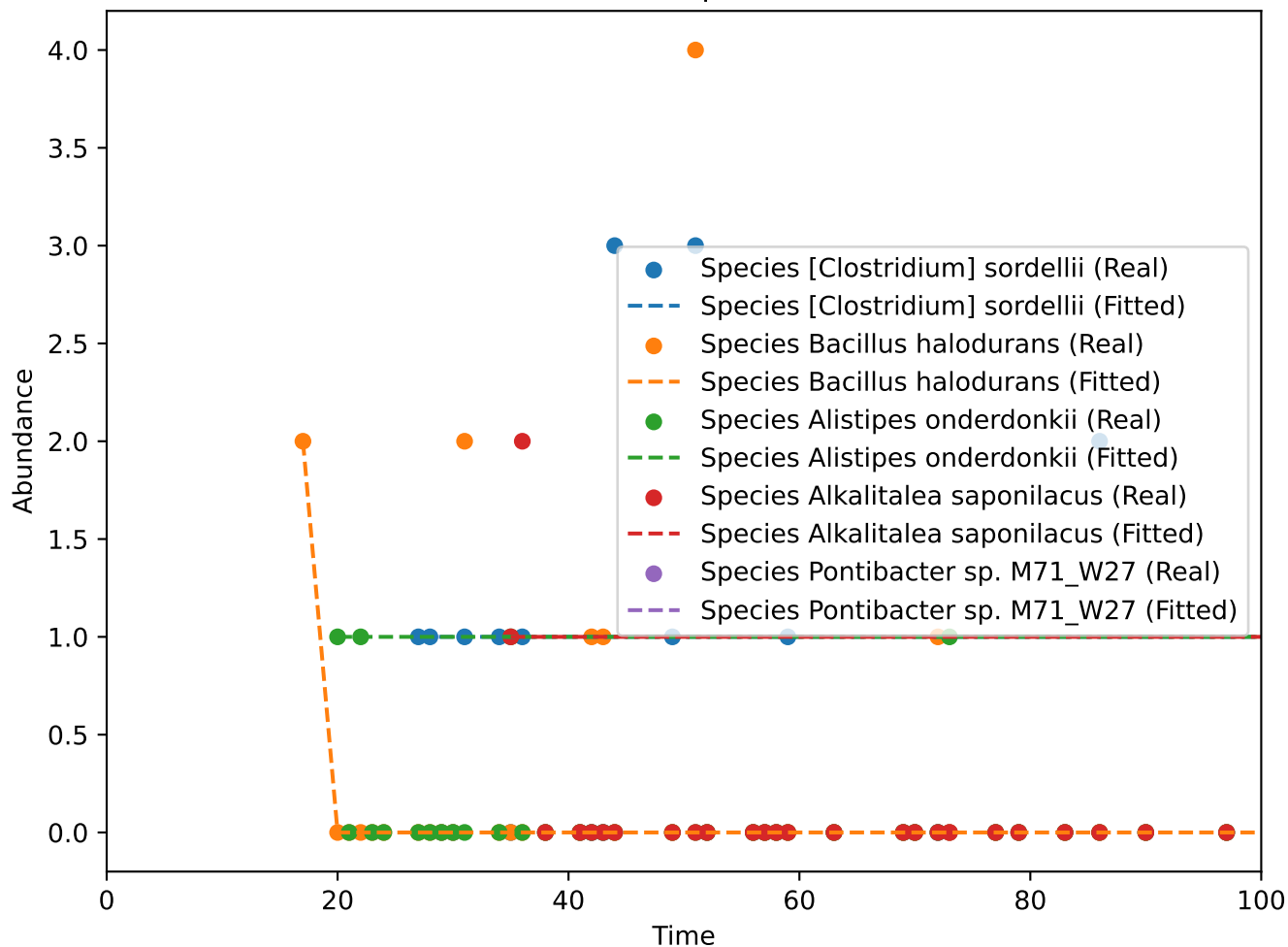
Mouse 5 - Species Fit



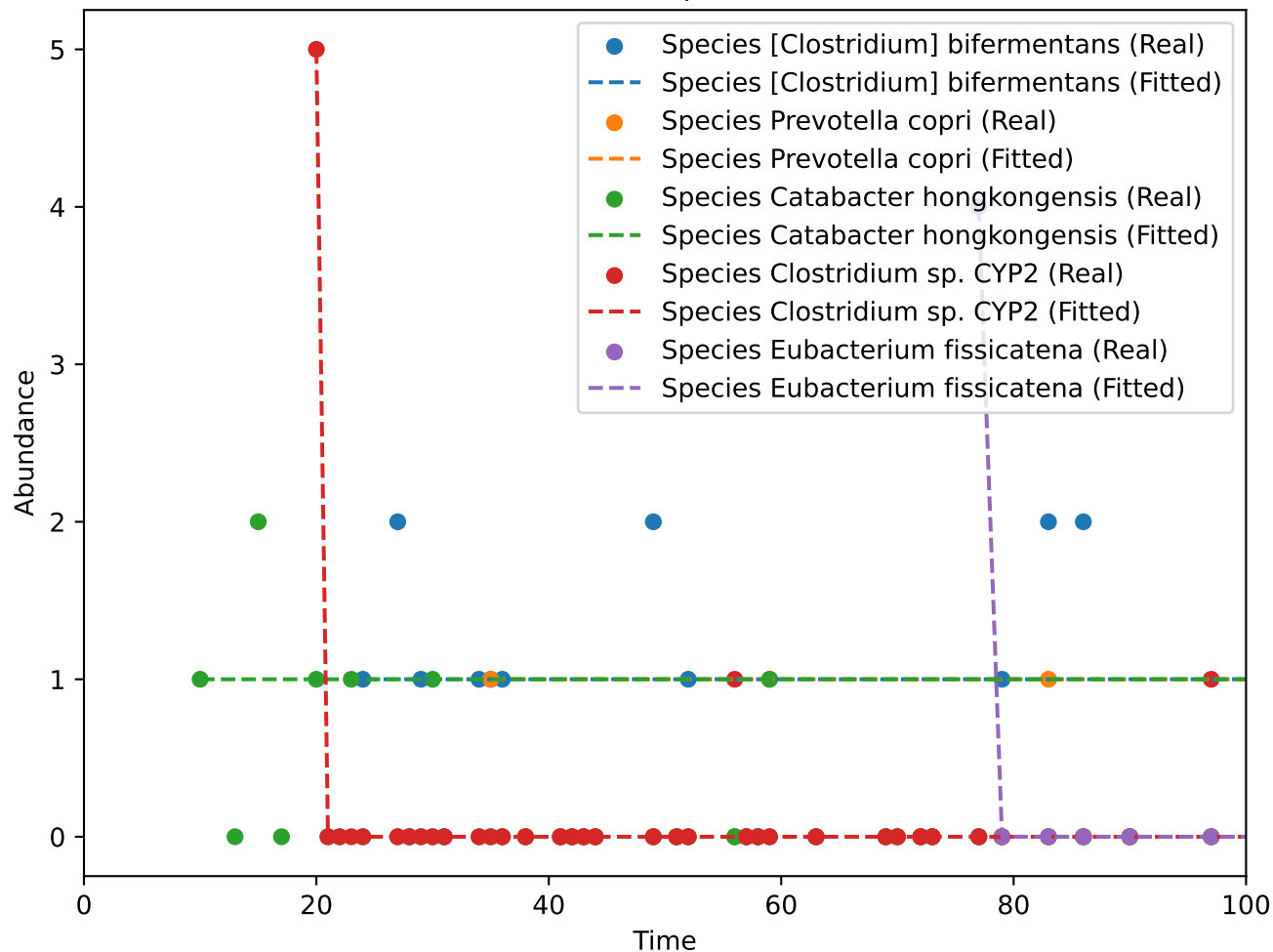
Mouse 5 - Species Fit



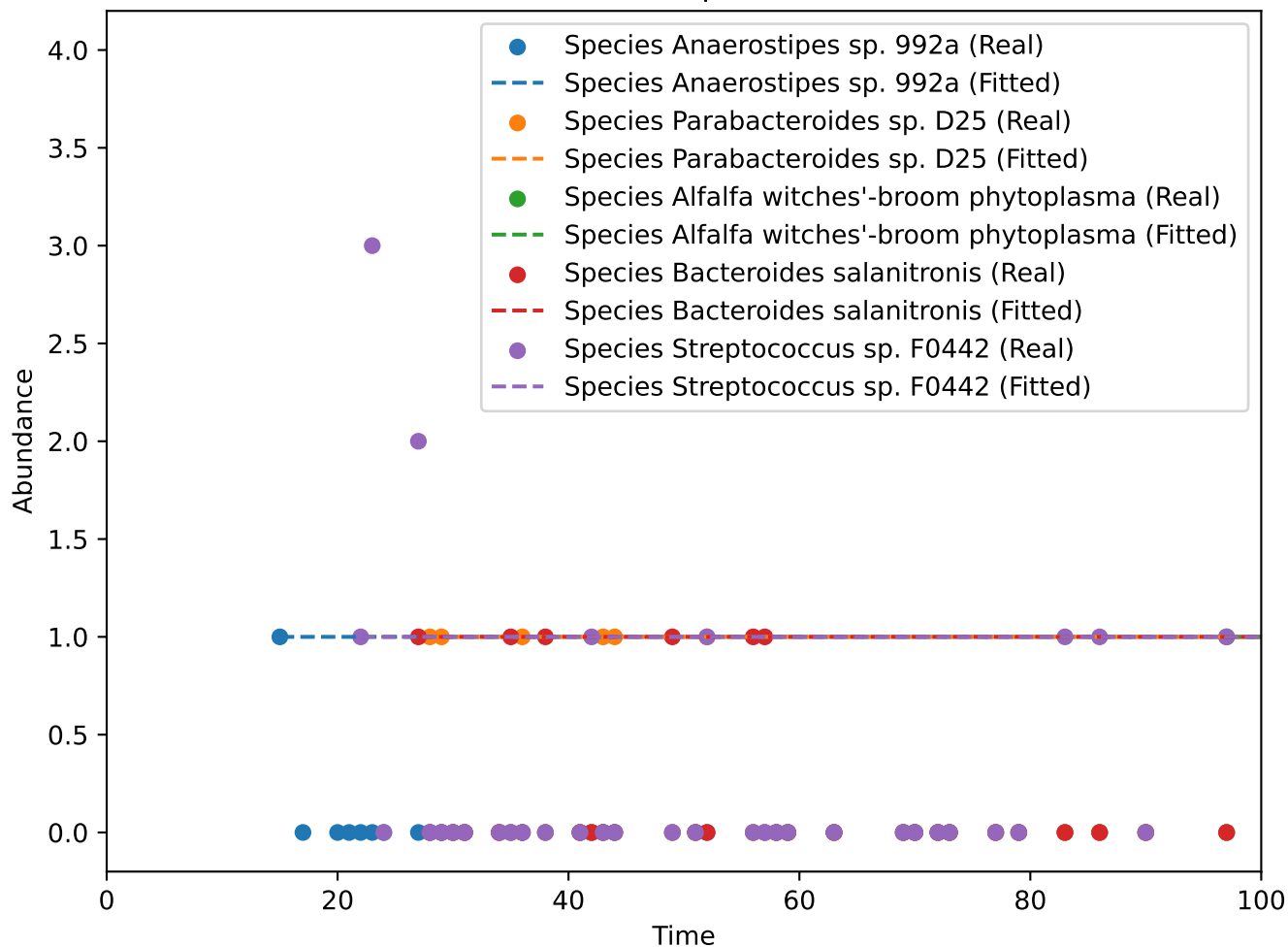
Mouse 5 - Species Fit



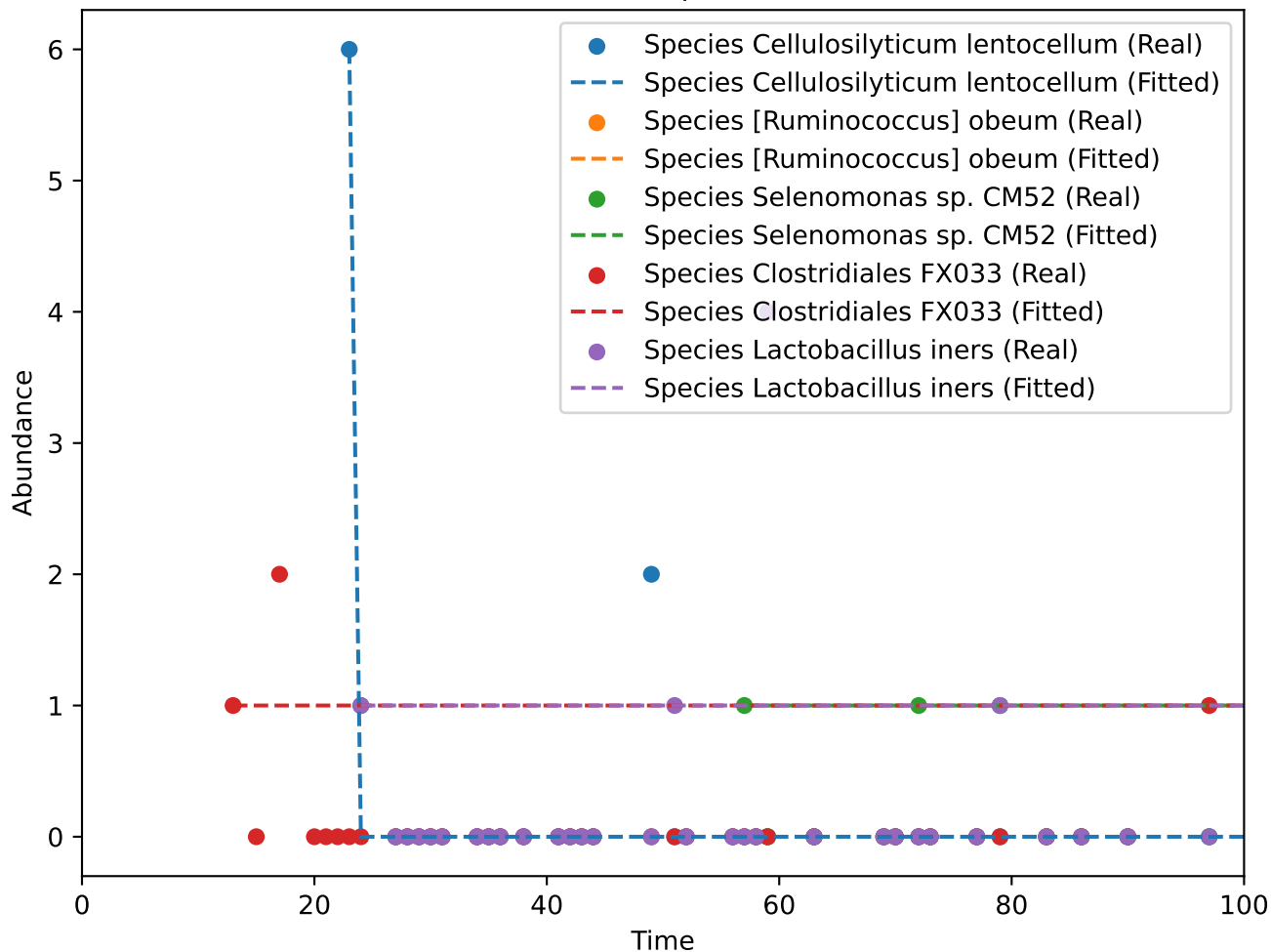
Mouse 5 - Species Fit



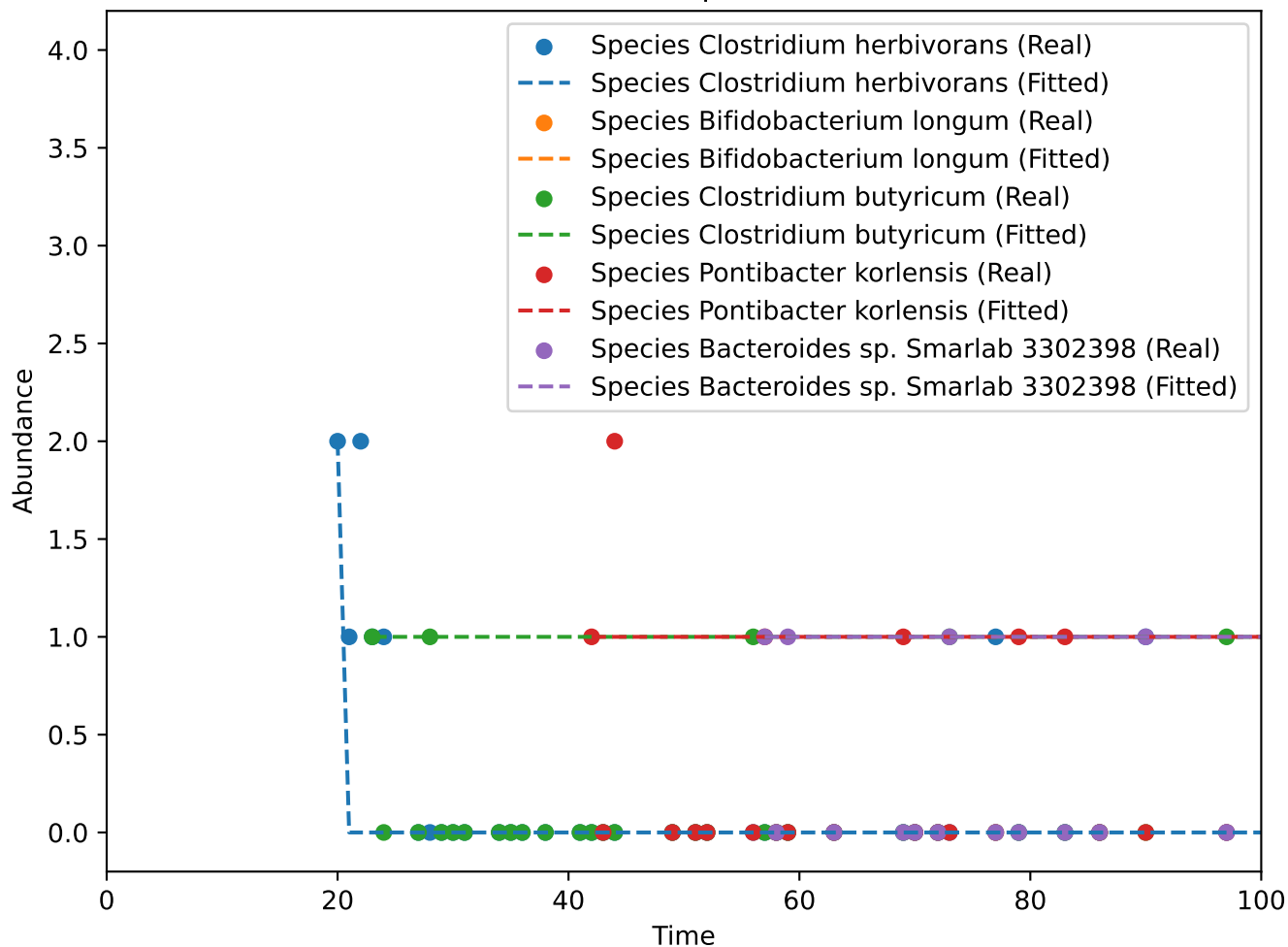
Mouse 5 - Species Fit



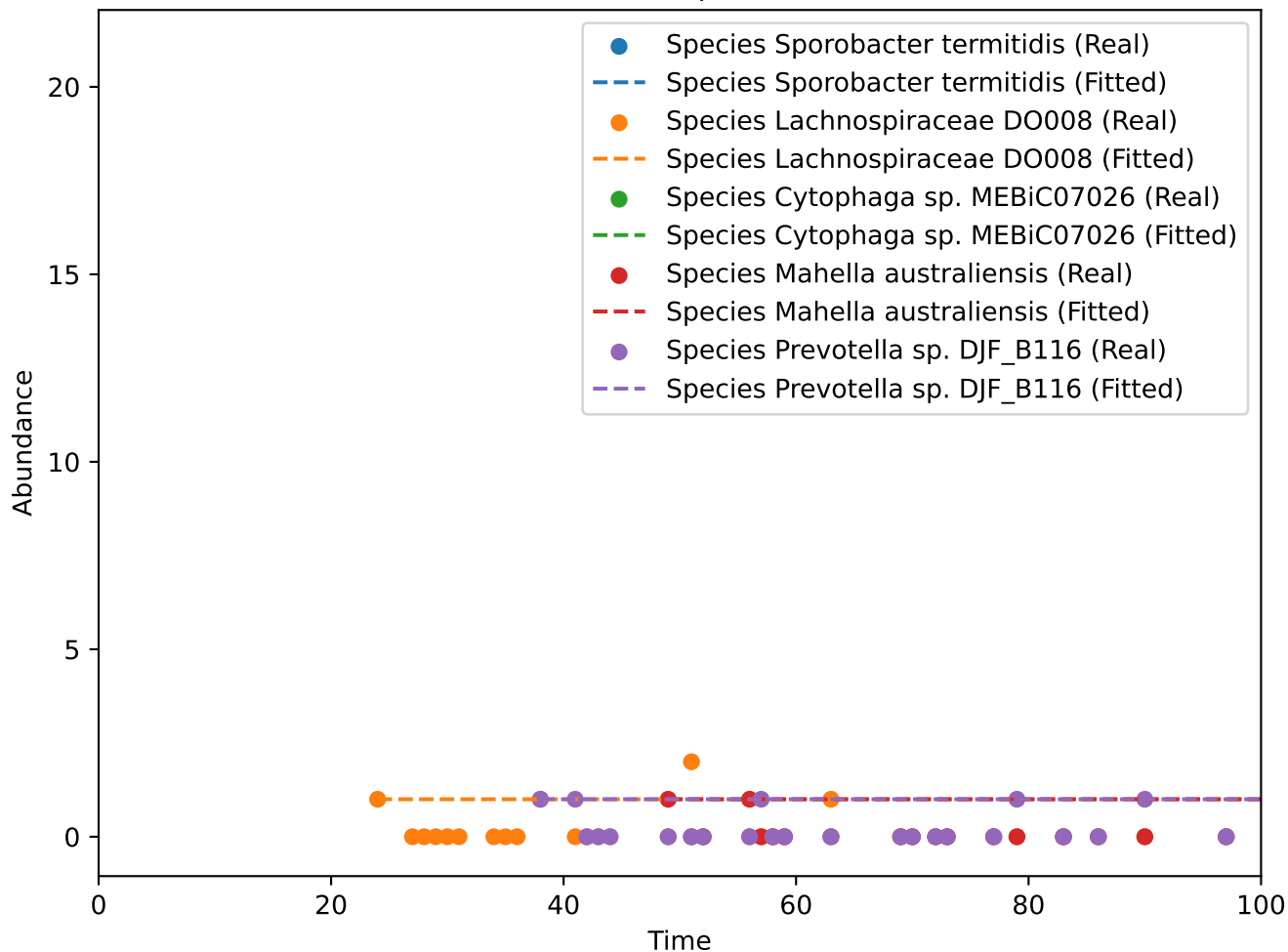
Mouse 5 - Species Fit



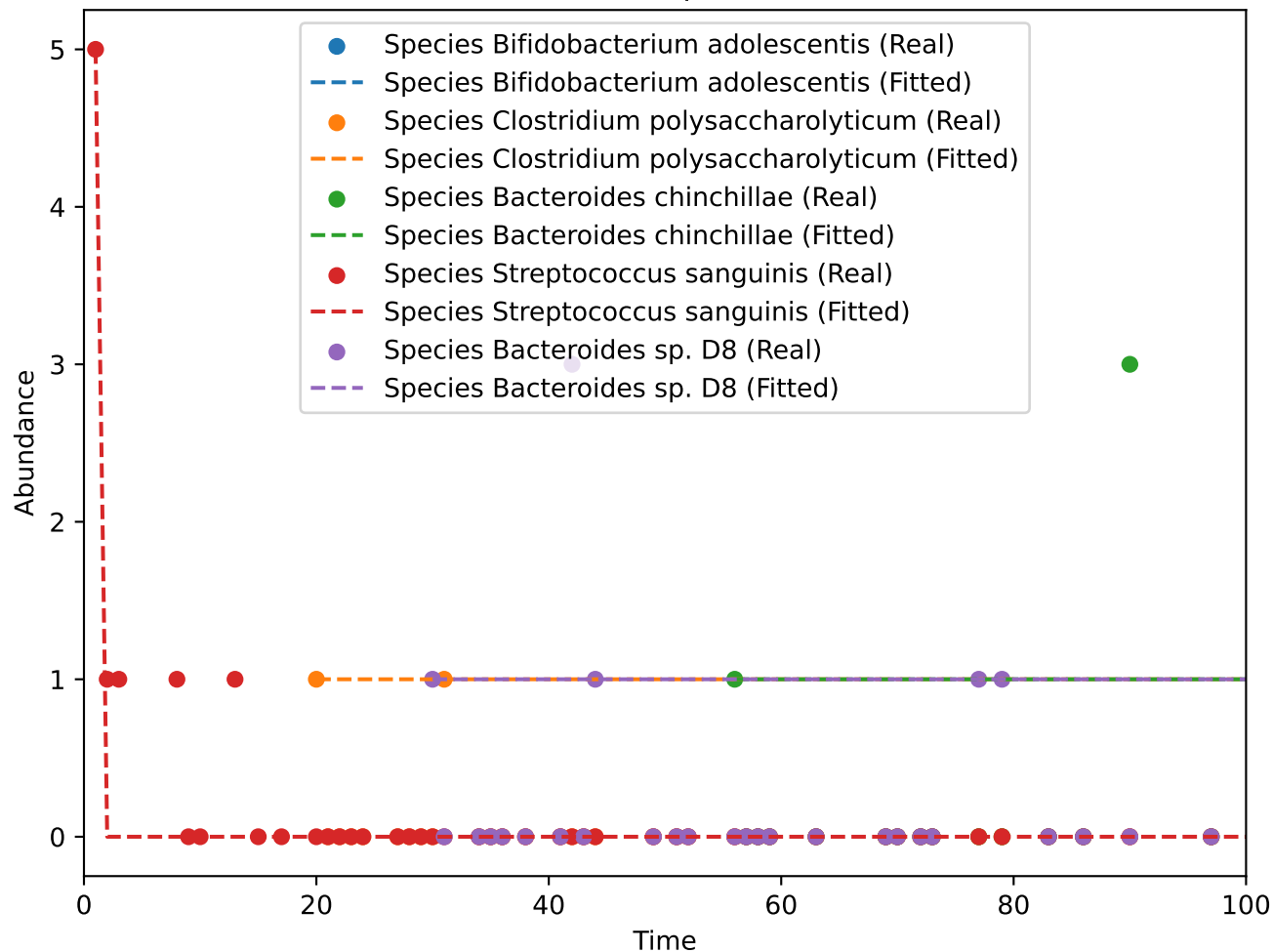
Mouse 5 - Species Fit



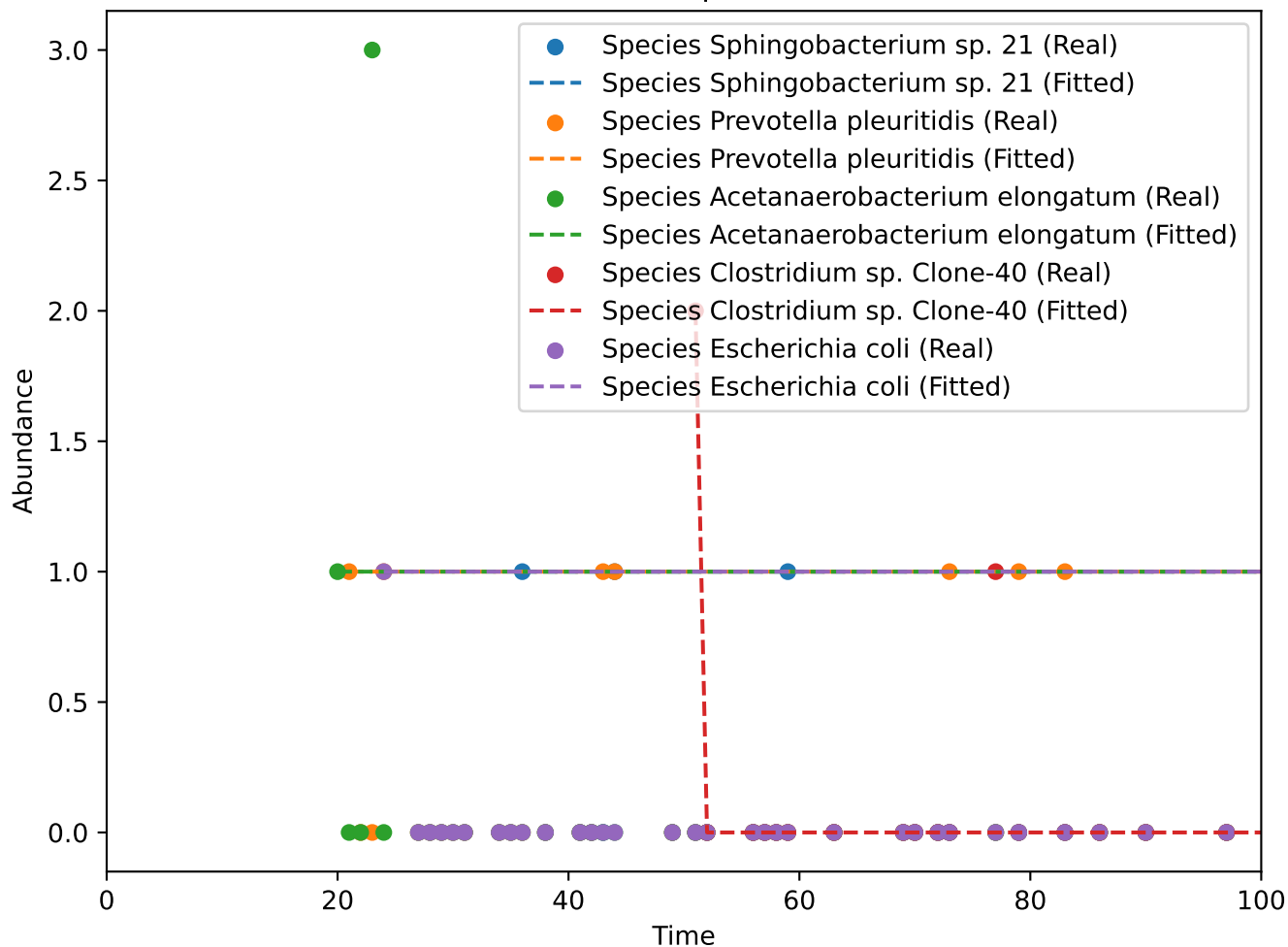
Mouse 5 - Species Fit



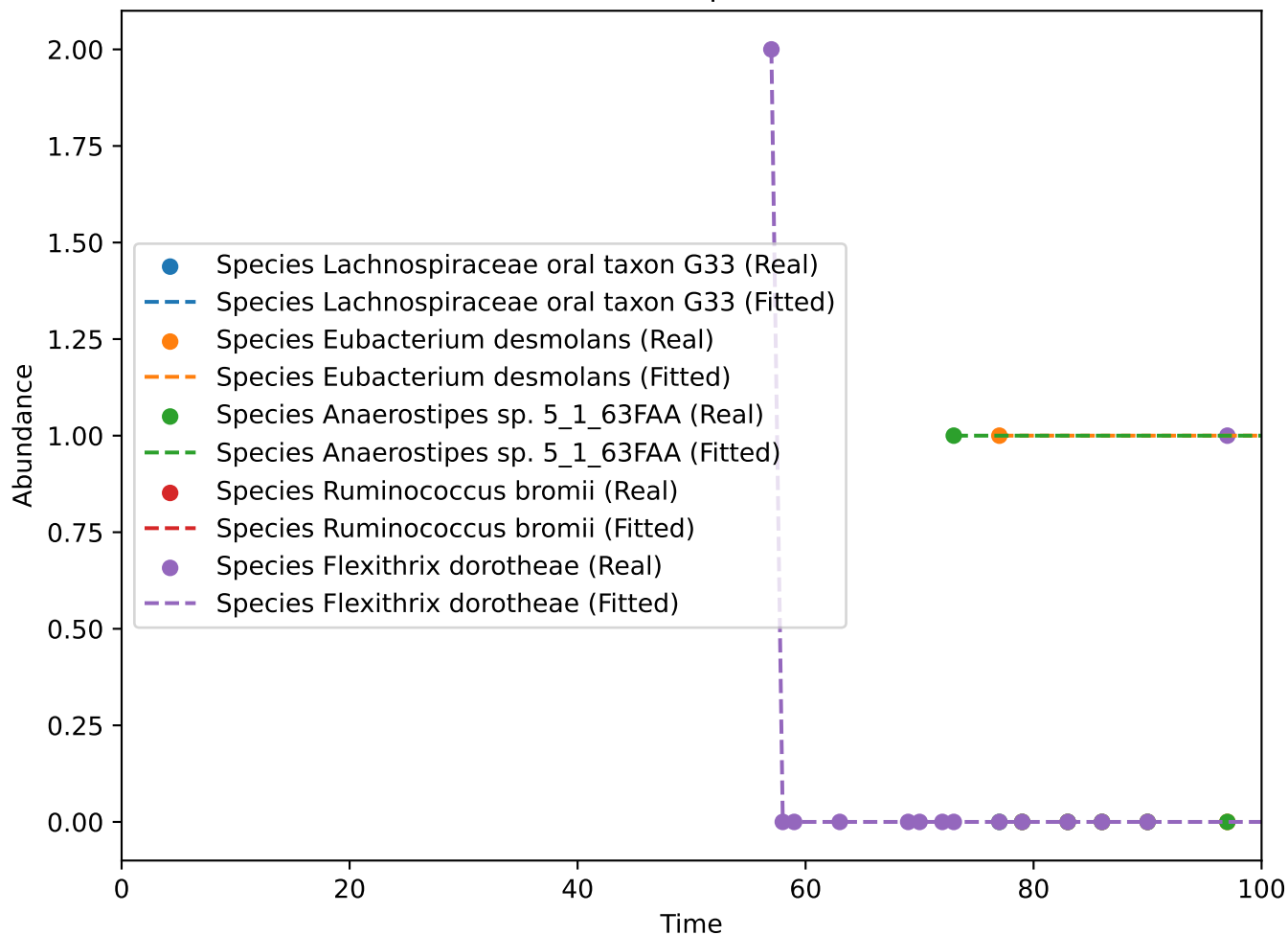
Mouse 5 - Species Fit



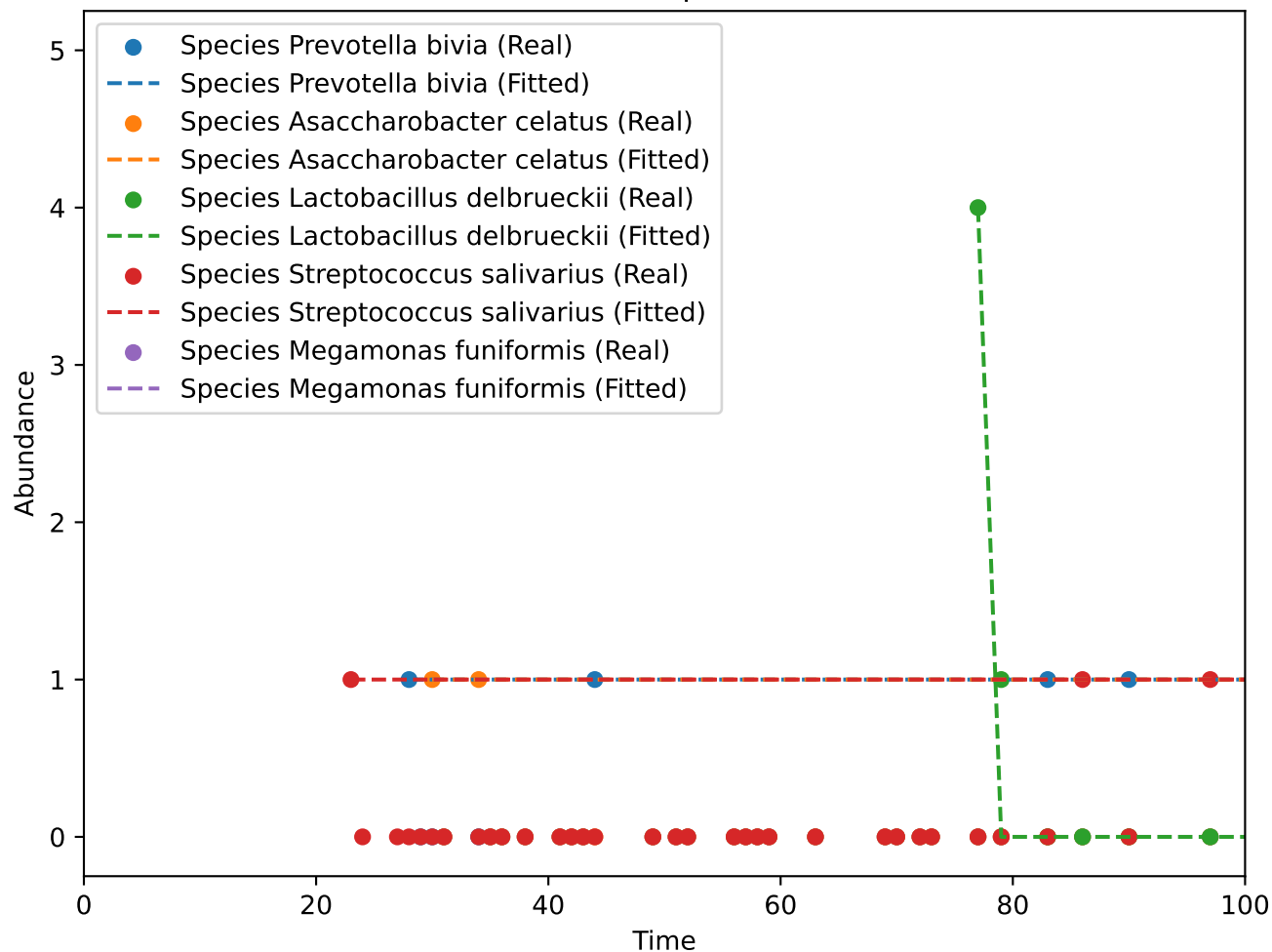
Mouse 5 - Species Fit



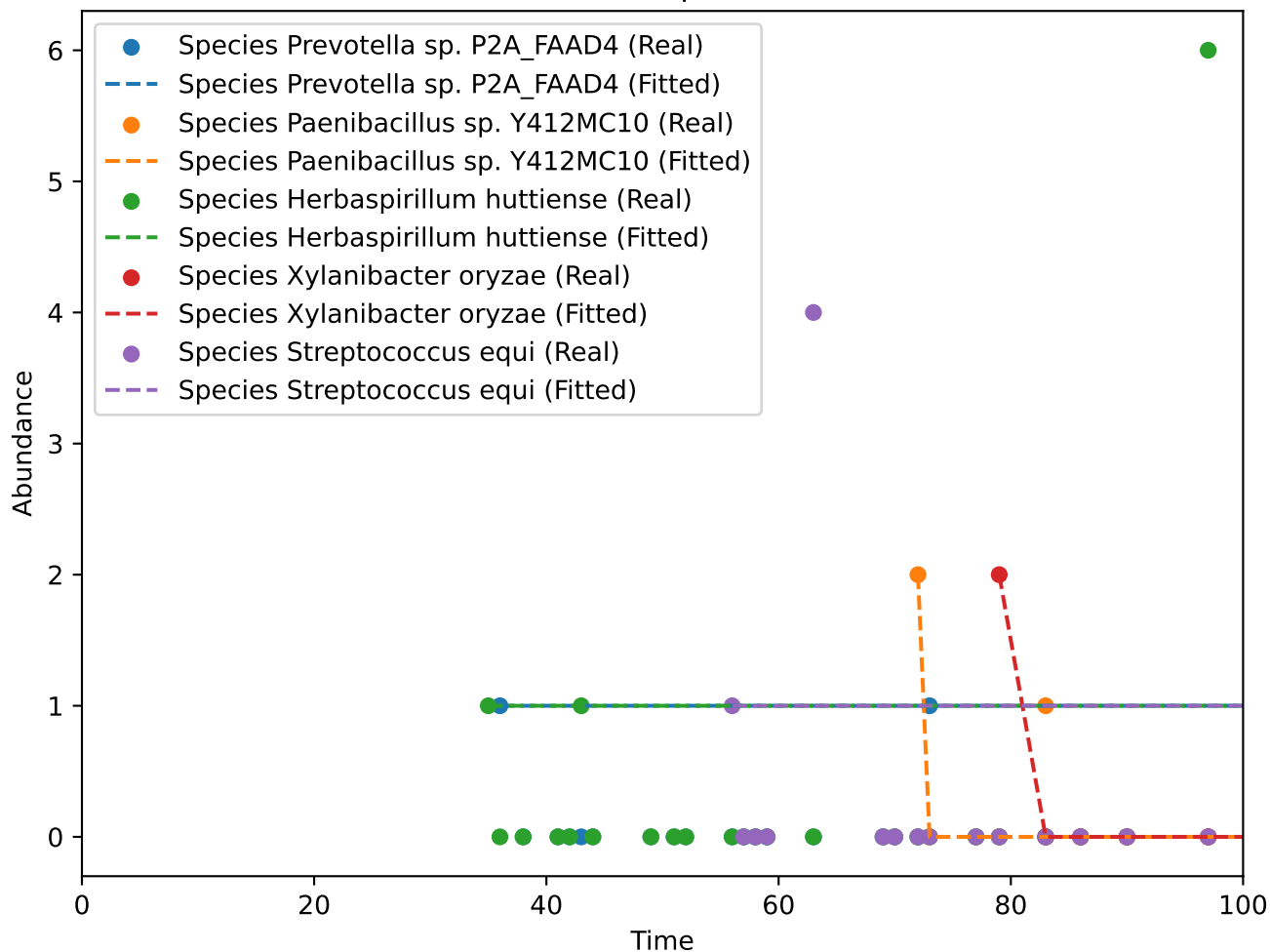
Mouse 5 - Species Fit



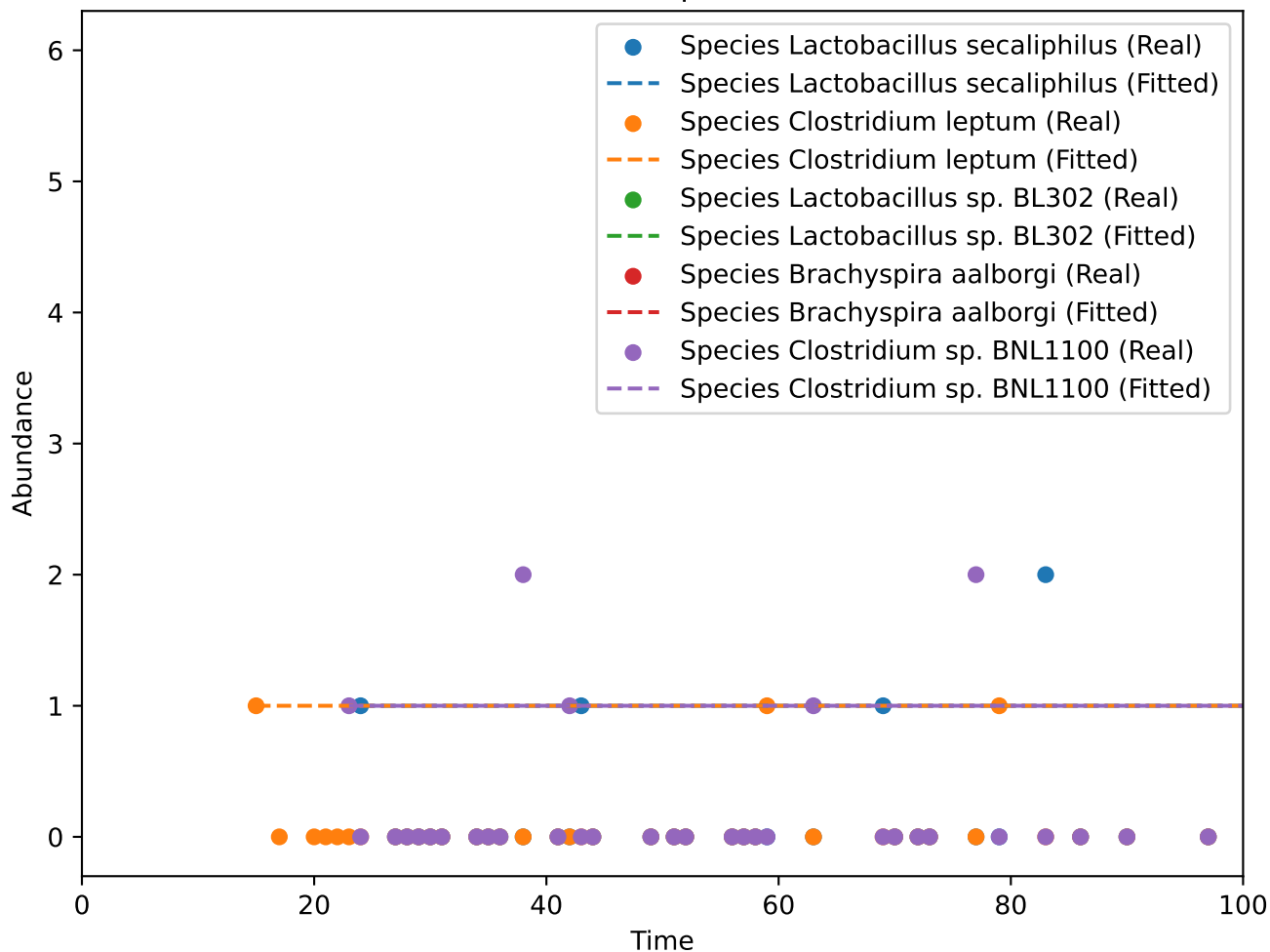
Mouse 5 - Species Fit



Mouse 5 - Species Fit



Mouse 5 - Species Fit



Mouse 5 - Species Fit

