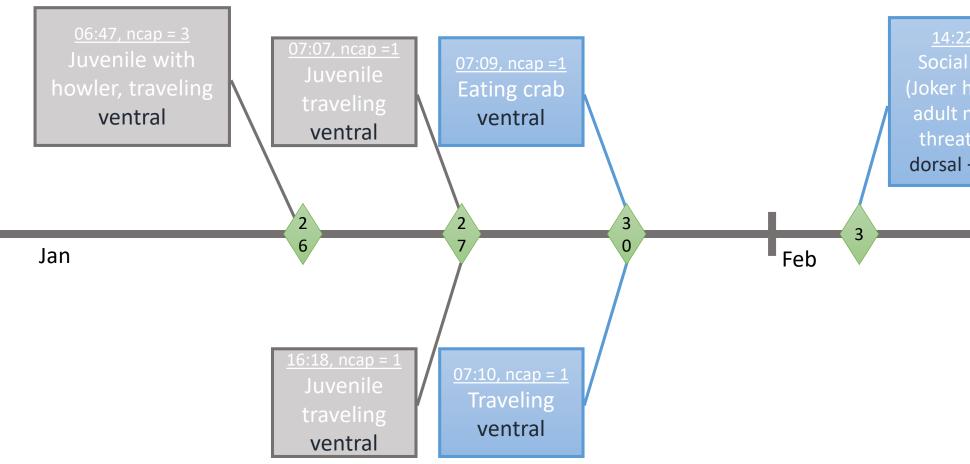
### Timeline of Howler Abductions

Supplemental to Goldsborough et al. "The Rise and Spread of a Social Tradition of Interspecies Abduction"

### Howler 1 (2022-01-26 until 2022-02-03)

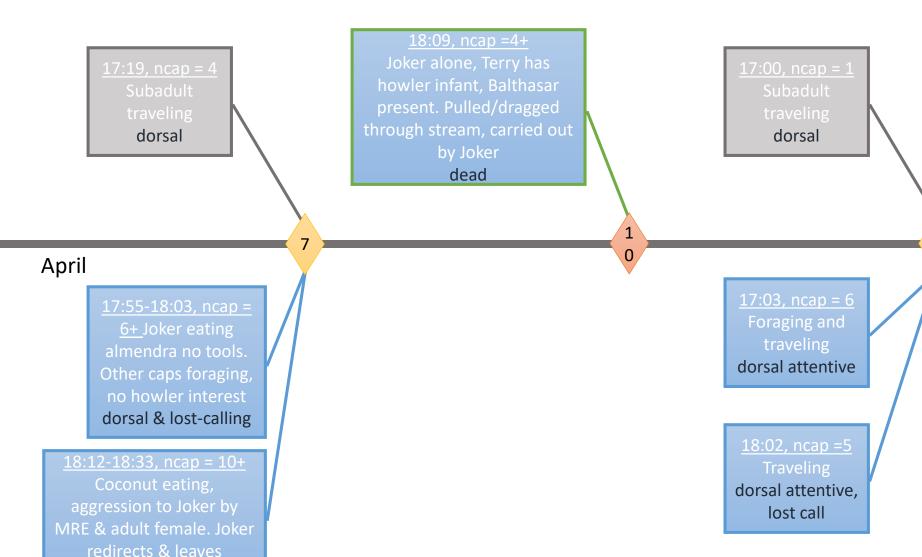


Social aggression
(Joker head flagging adult male + vocal threat offscreen)
dorsal + lost calling

2-3 weeks old

Carrier:

## Howler 2 (2022-04-07 until 2022-04-13) & Howler 3 (2022-04-10)



dorsal & lost-calling



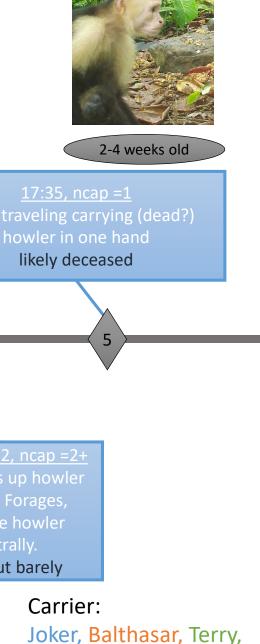


3-4 weeks old

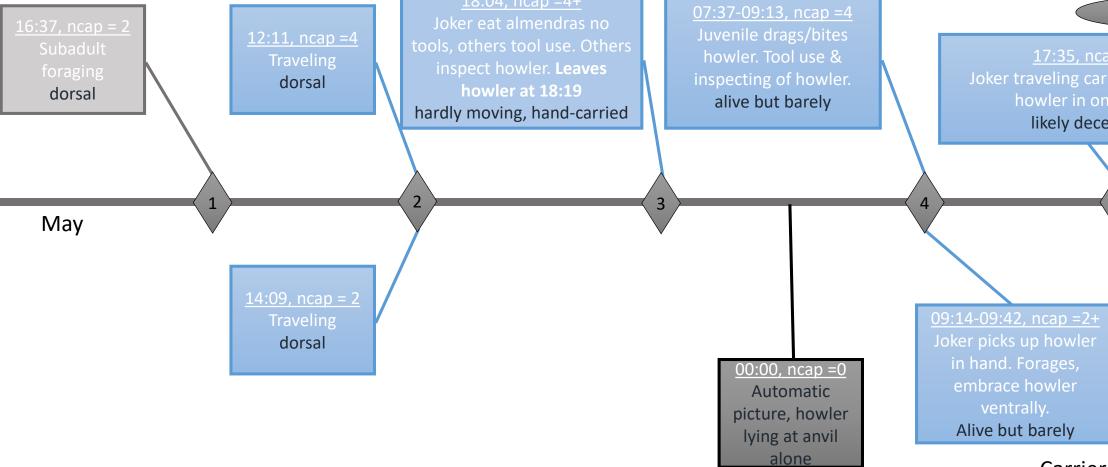
2-3 weeks old

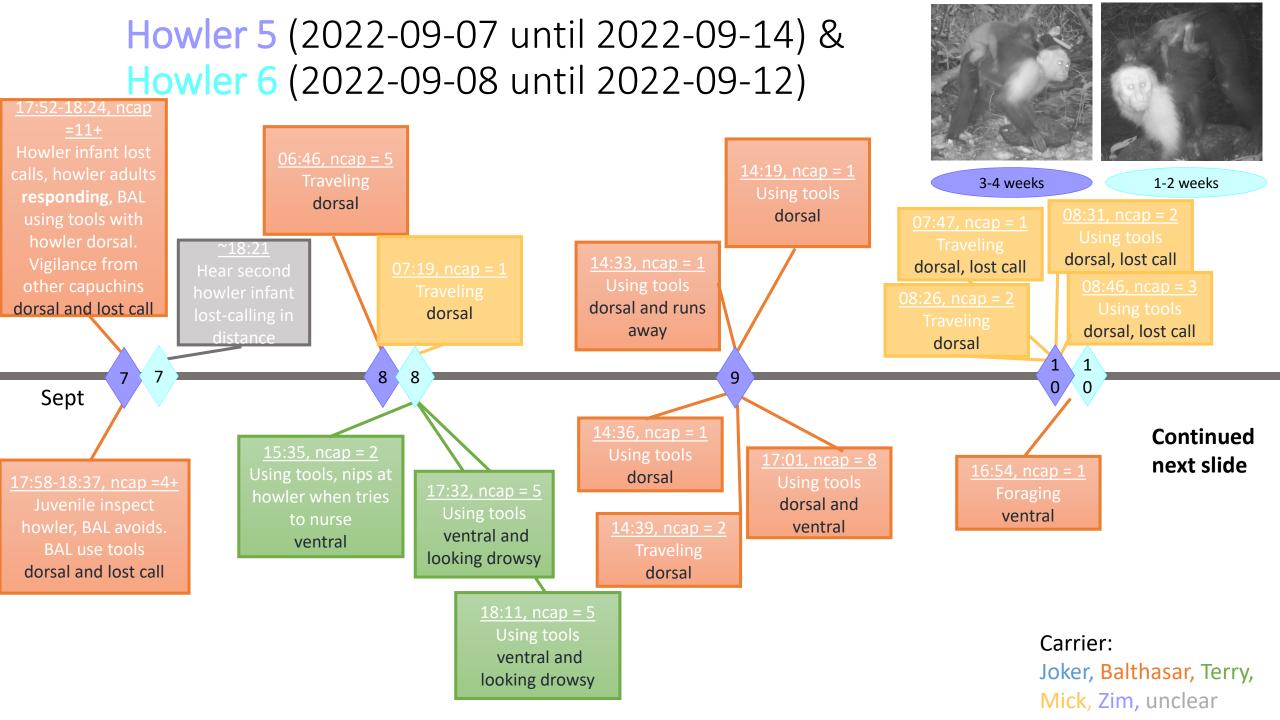
Carrier:

### Howler 4 (2022-05-01 until 2022-05-04)

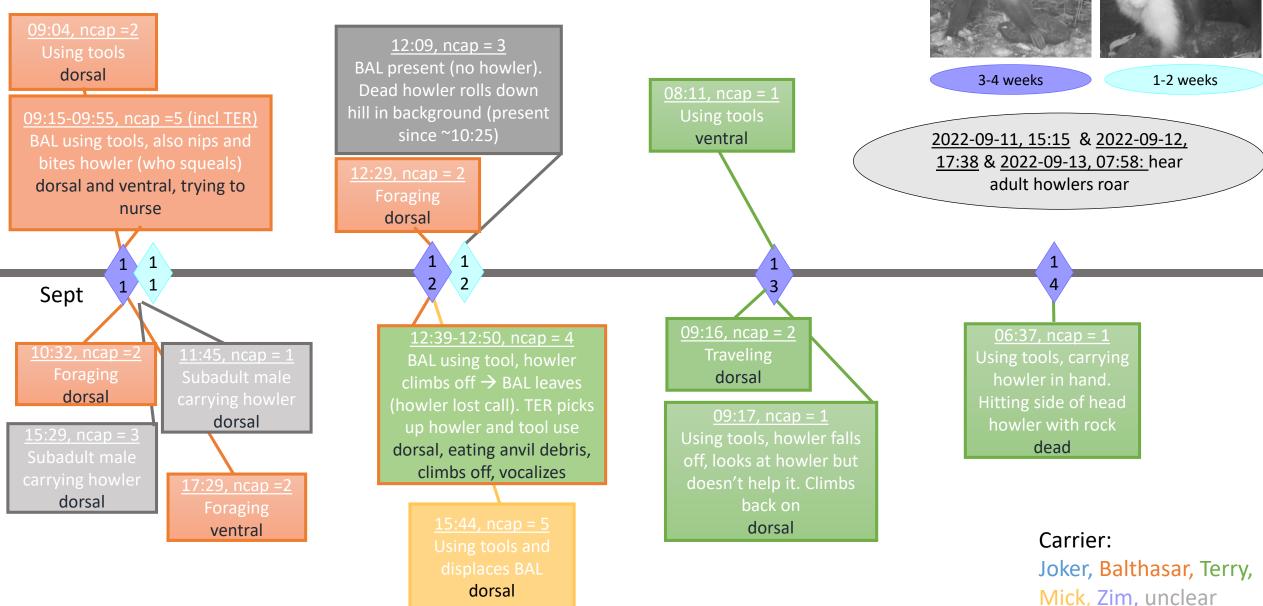


Mick, Zim, unclear

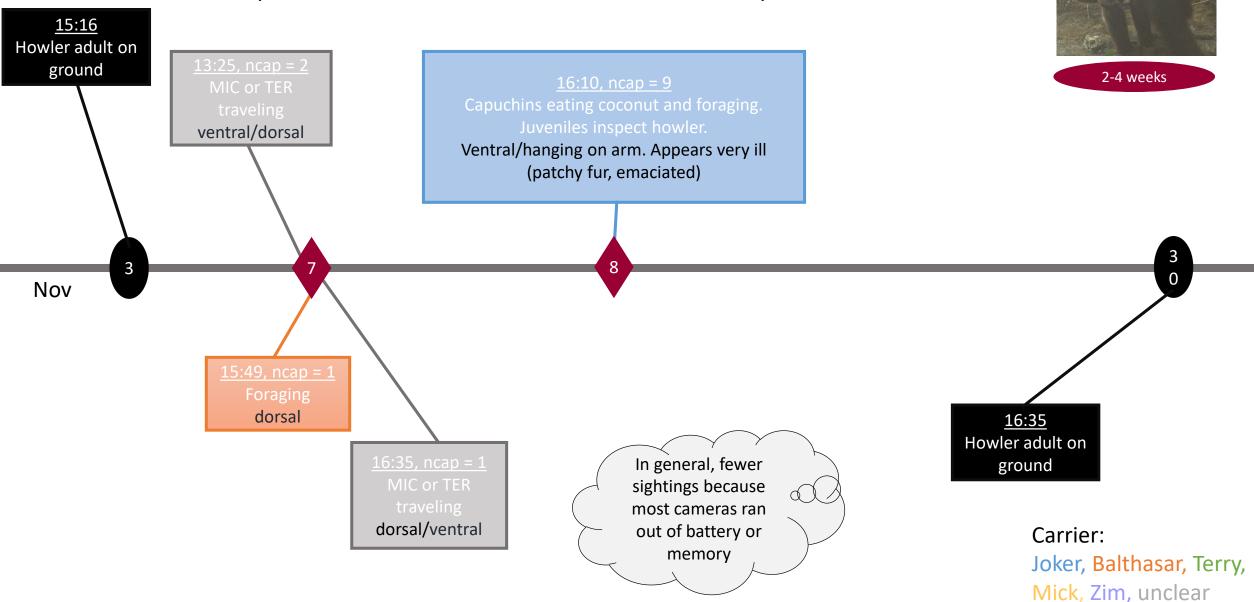


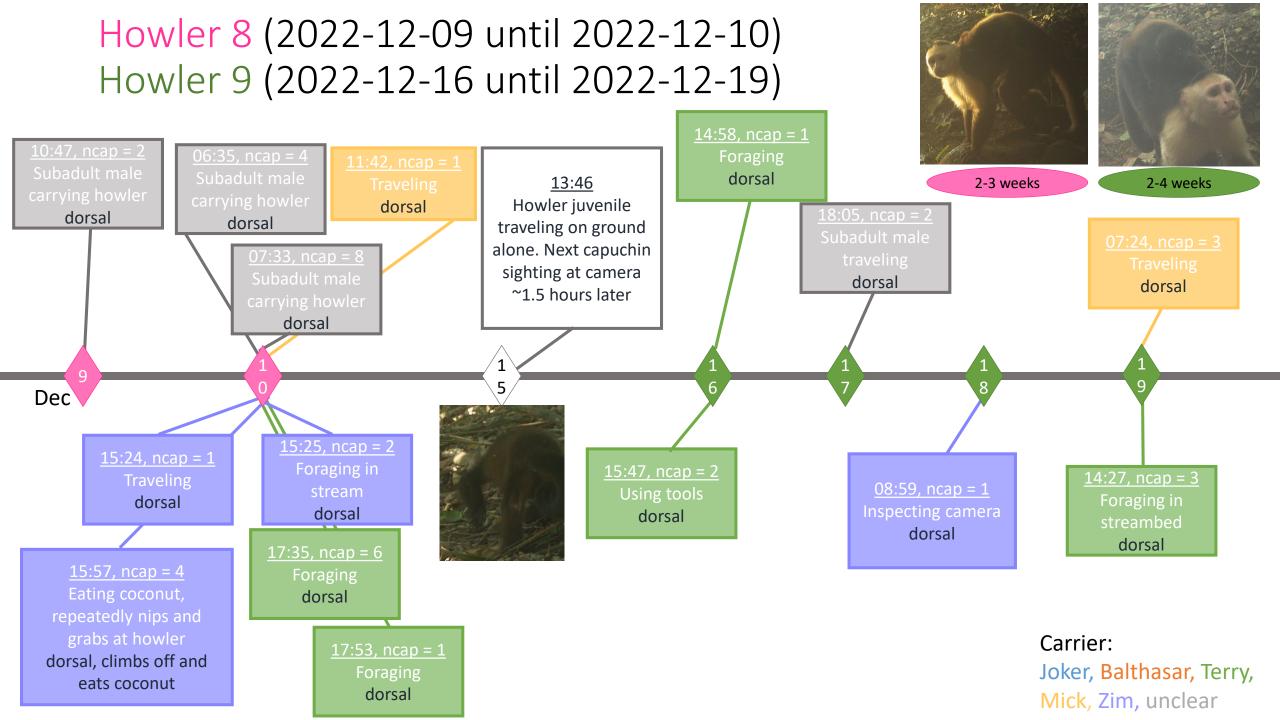


# Howler 5 (2022-09-07 until 2022-09-14) & Howler 6 (2022-09-08 until 2022-09-12)



#### Howler 7 (2022-11-07 until 2022-11-08)





### Howler 10 (2023-02-17 until 2023-02-19)

<u>18:48, ncap = 2</u> Traveling (Joker also present) dorsal

09:53, ncap = 2 Visually foraging with howler dorsal, Mick

dorsal

dorsal, lost calling and looking into canopy. Hear adult howler(s) responding

06:47-06:52, ncap = 12+

Eating at anvil (no tools),

07:16-07:24, ncap = 12+ Group foraging in stream hear lost-calls off-screen and howler(s) responding



3-4 weeks

<u>07:26-07:28</u>, ncap = 15+

Howler dorsal on Zim, gets off and climbs into tree. Mick throws howler on anvil & threatens/nips at it. Other capuchins vocal threatening at canopy. Howler runs off and Zim grabs it, then Balthasar carries after

protesting and screaming during aggression

Feb 2023

17:17, ncap = 5
Using tools with
howler dorsal
Dorsal, slides off
(weak) but climbs back
on

07:40, ncap = 9+
At anvil scrounging debris,

other capuchins alert and adult female threatens
Balthasar with howler

Dorsal, lost-calling

<u>08:00, ncap = 2</u>

Eating anvil debris, grabs howler when it climbs off, adult female threatens Zim with howler

dorsal and climbs off

17:24-17:33, ncap = 3
Visually foraging and using tools
Dorsal, sliding off

18:08, ncap = 1
Visually foraging and using tools

Dorsal

Carrier:

### Howler 11 (2023-03-20 until 2023-03-21)

<u>14:44-14:54, ncap = 3</u>

Jsing tools at anvil, threatening of something off-camera by carrier and other capuchins

ventral/dorsal, eyes closed

15:37, ncap = 2
Using tools
ventral, upside down

(head beneath tail of capuchin)

<1 week (potentially 1-2 days old)

Mar 2023

> Fewer sightings because fewer cameras deployed at same time

15:52-16:02, ncap = 1
Traveling and using tools
Clinging to arm of capuchin and
upside down ventral

#### Carrier: