Field Note Digest

JRC field notes; unless otherwise specified “we” is JRC and DCM.

1998

8 May

Driving in Illinois and taking notes on the DeLorme maps (I need to search for that map). We did not find any full choruses on those dates, so we kept driving south

11 May

We arrived in the Harold Alexander Wildlife Management Area (HAWMA). By that time, we had already determined that there were two types of decim and made the association between call pitch and abdomen color, and we found full choruses at HAWMA

12 May

Setting up and even began with playback experiments and even had female responses, which seems pretty aggressive, given the teneral period.

16 May

Stage 2 fungus had appeared by 16 May. We did playback experiments for the next several days.

20 May

We had an incident with bird mites at the Weaver Motel (A mitey shame…) that set us back a bit—us personally, not the cicadas. We had also talked to Chris Simon at that point and told her of our findings

22 May

Peak day of seeing mating pairs in the wild in Hardy AR
We also did a couple of mapping runs around Arkansas

23 May

The honeysuckle was at peak obnoxiousness and strawberries were out. We kept grinding away at playback experiments, but choruses were shifting around (especially the cassini) and fading.

26 May

Chris and the Japanese film crew joined us, and we tore down our experiments and packed.

28 May

We finished packing on 28 May and hit the road, mapping. We poked south but quickly ran out of cicadas.

29 May

We turned north and mapped up the Mississippi valley.

30 May

We were up by Springfield and found dense choruses.

31 May

I drove up to Chicago

1 June
I headed back south, encountering cicadas just south of Springfield (the interstate kind of skirts the brood). Cicadas were nearly continuous all the way to Joplin MO. From there, I drove SW into Oklahoma but found cicadas patchy until Unita (***Remember, this was a IV-XIX co-emergence year, so brood identity was fuzzy, and Greg is going to sort this out!).

2 June
Headed back east and found no cicadas in places such as Bentonville AR; didn't hit cicadas again until near Marion Co line; they were weak. Yellville had chorusing decula and cassini but not decim, and Bull Shoals lake had both neo and tre. I spent the rest of the day looping mercilessly around stitching between AR and MO. Decim choruses were weak and patchy in AR… seemed like they dropped out first

3 June
Back at Bull Shoals lake the next day, the decim choruses had basically collapsed and it was just individual cicadas—both neo and tre. I looped up through MO and found weak decim; the cicadas were definitely tapering off, but there were decent choruses in Bennet Springs State Park. Then back to Joplin and Pittsburg KS to tape known 17-year decim.

4 June
Lousy weather; found cicadas but no calling in Neosho and Garnett. Plus got food poisoning? Crashed in a bleak motel

5 June
Kansas City, Steineger Field Lots of cicada carnage, few adults, no chorus—though weak chorus at Pierson Park. Looped around taping, looking for cicadas, and wrote some nasty comments about Missouri (my home state) drivers after having had enough.

6 June
Worked back northeast through MO; Shannon Ranch SF had heavy flagging but little cicada activity. Ended up in Springfield (MO). Still found decim choruses to tape along the way, though they were getting weaker

7 June
Poked around MO (including odd Fristo X Wasson site).

8 June
Rain and lousy weather. Worked NE into Illinois; towards Siloam Springs IL there was lots of flagging and some adult cicadas, too

9 June
Playback experiments under poor conditions using cicadas stored at Noll Alexander Farm collected 5/31/1998

10-11 June
Decim choruses taped at Stephen Forbes SP, Wildcat Hollow, Lake Jaycee Road, Rays Creek—getting both neo and tre. Severe storms, road damage, took shelter in Olney (white squirrels).

12 June
Taping choruses—Sam Dale Lake, Rend Lake, Washington County Conservation area; forced back to Olney by strong storms

13 June
Choruses taped on Barryville Road; spent night in Urbana at worst motel 6 on the planet ever

14 June
Taping at Middle Fork—lots of fungus. Found chorus at Fairbury IL. Headed to Chicago. Searched forest preserves, found nothing, visited family, back to Ann Arbor

20 June
At UMBS taping and mapping rimosa

2007

15 May
One adult cicada found at parents' house (tons here later).

23 May
No evidence of cicadas in Pokagaon State Park IN, Bendix Woods, Starved Rock, Shabbona Lake SP.

24 May:
No evidence at Crow Island Woods or at Oak Street (tons here later)
Hinsdale: Bronswood: Scattered cassini and decim out and calling; large number of skins (tons here later; 3 cicadas collected in this batch with Stage I fungus on 29 May).
Western Springs: Bemis Preserve: No calling, lots of skins (tons here later).
Raccoon Grove: No evidence of cicadas
Moraine View SP: No evidence of cicadas.
Madigan/Railsplitter SP: Suspicious holes, single cassini calling—scattered (tons here later).
Riverside Park Springfield: Many cassini calling; almost a chorus. Lots of cicadas out, even CIII; some old but still fresh eggnests (last year?).
Lincoln/New Salem Historic site: scattered cassini calling even at 7 PM; many cicadas sitting around, cass and sep.

25 May
Jubilee College SP: Scattered adults hanging around, no calling except at Valley View picnic area—light decim chorus, scat cass. Put up cages and stored cicadas collected yesterday at Bronswood.
Moraine View State Park: No evidence of Magicicada.
Mackinac River SFWMA: No evidence of Magicicada

26 May
Heavy storms. Some emergence in Jubilee campground. Collected and stored tenerals.
Johnson Sauk trail SP: No cicadas.
Hennepin Canal Parkway: No cicadas evident but raining.
Starved Rock: No evidence of cicadas but thunderstorm.
Silver springs SP: No evidence of cicadas but raining.
Bemis Preserve: More cicadas out. Many many more skins out. Raining.

27 May
Bemis Preserve: Enormous emergence last night.
Bronswood: Enormous emergence last night.
The Grove, Glenview: Scattered cass and decim calling; 85F; clearly a significant emergence last night.
Moraine Hills SP: Holes and skins; no adults seen or heard.
Volo Bog: No evidence of Magicicada
Lake Bluff Village Green: skins on trees, no adults seen or heard. Then south on Sheridan Road
Lake Forest College: Skins and holes under oaks, shown the exit by a cop
Moraine Beach Park Highland Park: Lots of holes, one nymph one adult (sep) lots of holes
Ravinia Park: two adult sep and a nymph
Glencoe: 91 Beach: Many skins and a few adults.
Christ Church: Many skins on trees
Village Green Winnetka: Many nymphs emerging now (7:43 PM), birds picking them off.
Oak Street: many emerging cicadas
Indian Hill Park: Large emergence underway
Kenilworth Beach: Large emergence underway
Gillson Park Wilmette: Small emergence underway
Evanston: Northwestern University: Single nymph emerging 8:40 PM

28 May
Bemis Preserve: Overcast 70F light decim chorus. Collected.
Marseilles IL; Cass and decim chorus.
Illini State park: scat cass calling
Starved Rock State Park: No evidence of Magicicada; long walk and search.
Marshall Fish and WMA South Unit: light cassini chorus
Jubilee College State park: Strong cassini chorus, weak decim chorus 4 PM

29 May
Jubilee College chorus lights up at 5 AM; dense loud 3 spp chorus by 11:30 AM.
Day at Jubilee

1 June
Mapping with Map O Matic (this was the Mac based prototype)

2 June
Set up mating experiments at Jubilee

3 June
Spoon river mapping and taping
Fitch Creek: No cicadas heard
Indian Creek: annoying lawn mowing, no cicadas heard but no chance.
Continue looping and mapping, mostly out of brood until finding a strong cassini chorus 5 PM; found scattered decim and decula calling as well; kept driving around and mapping until nearly 6 PM; KH managed mating experiment.
Mapped around Truro—nearly complete allopatry with III

4 June
Jubilee; decim chorus lights up at 5AM; worked on mating experiment; day is cool and cloudy. Mapped by Galesburg. Beyond edges of XIII chorus, scatters cicadas, always cassini, with decim choruses audible in far distance back in the brood. Some problems distinguishing light and distant choruses. Tried to find and encircle some of the apparently light decim choruses but could not.

5 June
Light rain and cold, so chorus starts late.
Chorus at peak intensity, but not a lot of MP visible.
Mating Experiment

6 June
Kickapoo Creek—No cicadas
Mapped around Canton (strip mine country) where RDA and AFR mapped in 1997 and found minimal overlap between their III points and XIII—very hard to argue that these broods (separated by 10 years this direction) are in any reasonable sense sympatric.
Full on choruses are unmistakable and the edge is typically crisp—full on and then it stops.
Then nymph digging with Beth
Siloam Springs SP—dug Hunter Lot III; those we found were pale and a good distribution of sizes.
Nymph digging at Ray Norbutt (XIX) in weeds at far edge of field by forest; same place I have been digging forever. 21 nymphs, larger than Siloam, all eyes still white. Clear cells with plastered walls. All within 8" of surface. Slice soil thinly, look for tunnels, follow them.

7 June
Mating experiment, Jubilee.
Ambient cassini choruses just about synchronizing; definitely synchronizing by park shop; sunny, very hot; decim choruses poop out in afternoon and cassini choruses really get going.

8 June
Mating experiment, Jubilee
Derke Hughes (Navy) showed up, played with laser vibrometer for measurements.

9 June
Mating experiment, Navy experiment, Jubilee

10 June
Mating experiment, then detailed mapping around Watseka XIX isolates; disconnected from main XIX though searched drainages, no overlap here with XIII

11 June
Jubilee, chorus started weakly at first, 6 AM; overnight the occasional cicada squawk and you would know cicadas were here even in the dark. Mating Experiment
Then mapped NE and E of Watseka to Kankakee. KH found calliope at Jubilee.

12 June
Mating experiment, Jubilee. Then mapped Mackinaw River to Clinton Lake, crossing into Brood XXIII and XIX. XIII strongly in this drainage, but just quits when trees thin out. XIII not in Salt Creek drainage, so no real overlap with either XIX or XXIII.
Mike Neckermann reports sparse populations in northern Illinois, WI, IA; Jin confirms. Jin could find no cicadas at Moraine Hills State Park where I found skins on 27 May. Could they be done and dead? Doesn't seem likely.
Choruses at Jubilee seem notably weaker.

13 June
Mating Experiment
Then mapping, Sugar Creek and Kickapoo Creek.
Kickapoo Creek park, Lincoln: light to scat cass, 4:42 PM 97F
Lake Como, Walworth County WI: strong decim chorus 6:22 PM plus patchy cassini

14 June
End mating experiment, Jubilee.
Choruses at Jubilee are weaker and get started later. Grass drying out and turning brown.
Dickinson Mounds Museum: No cicadas
Then Map O Matic

15 June
Teardown of cross-mating experiment
Mapping Mackinaw River.
Evening, Motel 6 Springfield IL. Serious competitor with Urbana Motel 6 for possibly the worst motel on the planet, ever.

16 June
Mapping near Springfield IL. No cicadas at I-55 rest stop
Carpenter Park—scat cass, sunny, 80F; better deeper in the park
Lincoln Trail Homestead State Park—long listen, no cicadas
Allerton Park: No cicadas
Monticello: *T. pruinosa* calling

17 June
Mapping north from Springfield IL
Carpenter Park: weak decim chorus
West of Peoria: Chorus still strong near I-74/I-474
Mapping mapping mapping

18 June
Grandview lake: light decim chorus; mapping; significant damage from tornado June 1; few trees left in town.
Lake McBride SP—light rain, lots of cassini, light chorus, thunderstorm coming in.
Union Grove SP: No cicadas
Cedar Rock SP: No cicadas

Backbone SP: No cicadas
Bixby SP: No cicadas

19 June
Jubilee College. 11 AM, sunny, 82F. No chorus. Just scat cass; then very light decim chorus starts and decula calls. Taped and captured a calliope.
GPS mapping
Miller Anderson Woods SP: light decim chorus
Castle Rock SP: no cicadas
Lake Leaquana SP: No cicadas, pretty insignificant trees
Apple River Canyon SP: No cicadas heard, but found a skin
Tapley Woods: 2 dead adult decim

20 June
Tapley Woods: very light chorus?
Jack Witowsky State Game Area: strong decim chorus, plus scat cass
Governor Dodge SP: No cicadas
Blue Mound SP: No cicadas
Walworth County WI: Bonnie Brae: strong decim chorus, enormous numbers of Fungus I and II cicadas here; never seen this many. Heard an odd sound—thought it was a different species, but it turned out to be a chorus of badly damaged fungus decim.

21 June
Returned to Bonnie Brae—strong decim chorus plus scat cass.
Lake County IL: Walter Heller Nature Park: strong decim, scat cass.; heavy fungus infection all decim.

Quick sample

	male	female
Normal	44	18
Fung I	26	43
Fung II	32	13

Chain o Lakes SP: No cicadas
Moraine Hills SP: Single decim calling, a few skins.
Sunnyhill Farm: no chorus, no cicadas
Boger Bog: light, fading decim chorus, but also light rain. Scat cass. Low fungus rates.

	male	female
Normal	62	13
Fung I	0	0
Fung II	2	1

21 June
Rock Cut SP: No cicadas

Mapping
(Loop Home to CT)

3 July
Corn in tassel
Raccoon Grove – long stop and search, no *Magicicada* heard, no wings, no skins no holes, no deads, no flagging. T. linnei calling.
Parents' house: chorus of *T. pruinosa*, cass, decim—pruinosa seem to set the cass off; *Magicicada* are weak.

5 July
Jubilee College SP
Few *Magicicada* calling, *T. lyricen* calling, moderate flagging. No *calliope*.
Starved Rock SP: No evidence of *Magicicada*

9 July
IL: Cook county, Forestway drive—intense flagging, willows hit especially hard.

10 July
Back to Storrs. Flagging? I-90 MP 36.4-40 in western Indiana

16 July
First cicada (*lyricen*) heard in Storrs.

2011

22 April
Post Oak Rest Area, I-57. Possible holes
Washington County Conservation Area: No evidence of cicadas; oaks not fully leafed out.
Got caught in tornado in St. Louis.
(family visit and job interview)

26 April
High Point NC: No evidence of cicadas

27 April
I-85 Davidson County Conservation Area: Suspicious holes, nothing else.
High Rock Campground: Same
Flat Swamp Access: Same
Yadkin River: one shed skin
(this is the day the tornado hit Tuscaloosa and Chattanooga)

28 April
Sesquicentennial State Park, Harbison State Park: Awfully piney

29 April
Augusta GA: First chorus heard. Mapped in area and found a tredecim mating pair.

Mistletoe State Park: Rangers say chorus has been going only 3 days. Cicadas common in park but not super dense; very piney. Tredecim dominant around here.
South of Georgetown: lost the brood. Place looks hit hard by storms.
Camped at Mistletoe; expensive considering sub-par bathrooms.

30 April
This area is where Savannah River leaves the hills and goes out into the swampy flats where there seem to be no *Magicicada*.
Edgefield: resident says they have been chorusing 2 days.
Brood seems to be only up in the hills.
I-20 rest area south of Augusta: tredecim, tcassini

1 May
Claystone Park: tredecim chorusing, tredecassini and tredecula present. Chorus not really full-fledged and densities unimpressive. Very sandy soil.
Mapped in area and returned to Macon

2 May
Mapped around Macon
Camped at AH Stevens State Park; host said cicadas have been out 2 weeks.

3 May
Chorus started 6 AM; mapped westward but have yet to hear a strong chorus; generally windy and in 70s.
Sprewell Bluffs State Park: No evidence of cicadas
Stopped for gas and saw the world's most picked on husband being picked on by cell phone because he could not find the right cigarettes.
West Point Lake: Rain; search found nothing. Drove towards Columbus.
Jackson trace Parkway, 5:40 PM rain; no chorus but lots of cicadas. Area absolutely blasted by storms, but skins are attached to trees, so they came after storms.

4 May
Rainout. Drove to Columbus OH

5 May
Drove to Columbus IN

6-8 May
Job interviewing plus loop back to CT

9 May:
Washington County (IL) Conservation Area: Turrets

10 May
Set up in Dixon Springs Agricultural Station (DAS); Jim Kirkland

11 May
AM organize in Dixon Springs
Dixon Springs State Park: Holes but no adults or skins
Golconda IL: Flooded outside floodgates; in town holes visible.
Ferne Clyffe State Park: Plenty of holes here, no skins, no adults

12 May
At DAS

13 May
To Nashville
Long Hunter State Park: raining, but tredecim and tredecassini present; light chorus. No tredecula heard, but marginal. Filming with BBC

14 May
Saturn rocket rest area, Huntsville AL: Nymphs emerging.
Oak Mountain State Park: No evidence of Magicicada
Rest area 42 miles north of Montgomery: No evidence of *Magicicada*
South of Montgomery—weak tredecim chorus, single tredecula, strong tredecula chorus

15 May
Filming
Holy Ground Battlefield Park
All three species chorusing when sun is out; only 62F
At river, very dense tredecassini and found Stage II fungus.

16 May
Horrific cold cloudy conditions; mapped positives only from Montgomery AL to GA border

17 May
57F at 8AM. But sunny day, eventually in 70s. Mapped.
Ended day at a remarkably foul spot filled with trash and dog carcasses; hint of tredecim, single tredecula, occasional tredecassini 32 02.658, 88 14.898 67F

18 May
I-65 north of Eva—strong tredecim, tredecassini choruses 3:41 PM
I-65 at Tennessee River: LOUD tredecassini chorus.
Return to DAS

19 May
Cloudy, rainy at DAS; set up with Paulo Fonseca

20 May:
DAS: light decim chorus during sunny periods.

21 May:
DAS; Science Friday.

Majority of decim here are tredecim

22 May
Hazy, sunny; many cicadas emerged last night. First early morning strong decim chorus. Substantial emergence in evening, but extremely strong storms killed the newly emerged cicadas.
(this tornado outbreak included the Joplin MO tornado)

23 May
DAS. Playback experiments but had to stop as another round of extremely strong storms moved through and caused power fluctuations.

24 May
DAS. Cold, wet, cloudy AM. Only 68 by 9 AM. Playback experiment fine tuning.

25 May
DAS. Paulo notes that neo from Steven Forbes seem very fatty.
Day started with rough weather; watch alarm went off.

26 May
DAS. Playback experiment; CBS news.

27 May
DAS. Cool Cloudy morning. Drove to Steven Forbes State Park to collect teneral cicadas. Poor weather, all four species.
Fox Ridge State Park: neo, tcass. Some cicadas out but looks early in the emergence.

28 May
Much more active chorus at DAS than previously. Very heavy emergence in evening.

29 May
DAS Playback experiments.
Slight emergence in evening.

30 May
DAS Playback experiments

31 May
DAS: strong decim chorus in morning, waves of cassini. Playback experiments.

1 June
DAS: Saw male tre doing persuasive courtship on a pole
Playback Experiments.
(Springfield MA tornado was this day)

2 June
DAS. Sam Orr left
Segment ran on CBS News and mercifully I was not on much of it.
Playback Experiments

3 June
DAS: Chorus activity seems diminished.
Heard *N. hieroglyphica*
Playback experiments

4 June
DAS: So humid you could cut the air with a stick of butter, except it's also hot.
Playbacks

5 June
DAS: Cage maintenance; drove to Columbia MO

6 June
Invertebrate Sound and Vibration Meetings

7 June
Finger Lakes State Park, MO. Light neo chorus 4:46 PM 92F, strong tcassini chorus. Tdecula also present.
Thousand Hills SP; dense patchy tdecula, tcassini common, weak neo chorus 6:45 PM 85F

8 June
Kirksville MO: Collected adults and a few tenerals
Lake Wappello State Park IA: very patchy, weak choruses, but tdecula, tcass, and neo all present.
Keosaqua State Park: 3:00, 89F light neo chorus, medium tdecula, strong tcassini…. But not as strong as I have seen it.
Shimek State Forest: 4:10, 85F strong tcassini chorus, continuous tdecula, weak neo
Shimek State Park: 5:00 PM 82F tdecula tcassini and neo chorusing.
Mapped to Keokuk

9 June
Keokuk. No chorus, but collected plenty.
Hamilton County Park IL 10:50 AM 80F strong neo chorus, tcassini and tedecula also present. Some neo tenerals.
Robinson Creek Park strong neo chorus; storm moving in.
Ray Norbutt: 5:45 PM cloudy very windy strong tcassini + tdecula chorus; no neos heard.

10 June
In CT

11 June
In CT

12 June
Weldon Springs MO 70F tcassini tedecula calling; too noisy to tell about neo.
Back to DAS

13 June
DAS Playbacks; no chorus at DAS until midday.

14 June
DAS Playbacks; thunderstorms came.
15 June
DAS. Playbacks. Cloudy 80F, only a light chorus at DAS. Collected Fungus II female tredecim at DAS.

16 June
DAS playbacks. Weak to nonexistent chorus at site. Can hear individual tre and neo and many tcassini; one tedecula. Mini waves start and die off; chorus cannot sustain.
Found sweetgum with large number of Fungus II cicadas 37 26.226, 88 39.932

17 June
DAS. Cloudy, no chorus. Playbacks
Then to Stephen Forbes SP- poor conditions; mapped flagging. No chorus but 68F at 5:30 PM and waves of tcassini. Saw approximately 5 Fungus II cicadas.

18 June
Kickapoo State Park: No evidence of Magicicada at cypress creek picnic area.
Bean Creek Road 3:20 PM 75F tcassini chorus and very weak neo chorus.

19 June
DAS Playbacks (notes out of order in book)

20 June
Near L'erable: tcassini chorus. Mapped around the area.

21 June
DAS Playbacks

22 June
DAS Playbacks
No chorus at all at DAS

23 June
DAS: No *Magicicada* heard. *T. linnei* and *N. hieroglyphica* calling.
Playbacks

24 June
DAS: No chorus. T chloromera, T. lyricen heard
Playbacks
Pack and leave; head to Gilman IL

25 June
Drive to St. Ignace MI

26-27 June
Northern Michigan *Okanagana rimosa* and *O. canadensis*

29 June
Driving

30 June
In Storrs

1-6 July
Playbacks in Storrs

7 July
T. lyricen heard at house

12 July
Glenview IL: J. W. Woodworth Prairie. Collected two *O. balli*

26 July
T. lyricen and *T. canicularis* common at house. No *Pterophylla*

27 July
Ellsworth ME: *O. canadensis*

28 July
Jordan Pond ME: *O. rimosa, T. canicularis*

31 July
Cadillac Mountain: *O. rimosa* on top.
S and H Lane: *O. canadensis*
Pterophylla (lots) calling at home in Storrs

1 August
T. canicularis, *T. linnei*, *T. lyricen*, *Pterophylla* calling at house.

28 August
Hurricane Irene. Power out until 3 September

28 September
Hot and muggy; *T. lyricen* calling at house

8 October
No cicadas at house

17 October
Pterophylla still calling at house

23 October
No *Pteryohylla* at house

24 October
One *Pterophylla* at First Baptist Church

27 October
Dusting of snow

29 October
Horrible, awful 8” of wet snow; destroyed trees power out 4 days. Many trees damaged; some had to be cut down; when we looked inside, all the fibers were separated.

November
Unseasonably warm and dry

7 December
Heavy rain chased by a strong cold front

8 December
Lightning and high winds; storm ended with a dusting of snow.