

Evaluating electric fences for protecting endangered freshwater turtle nests
from fox predation

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Turtles Forever



Local Land
Services



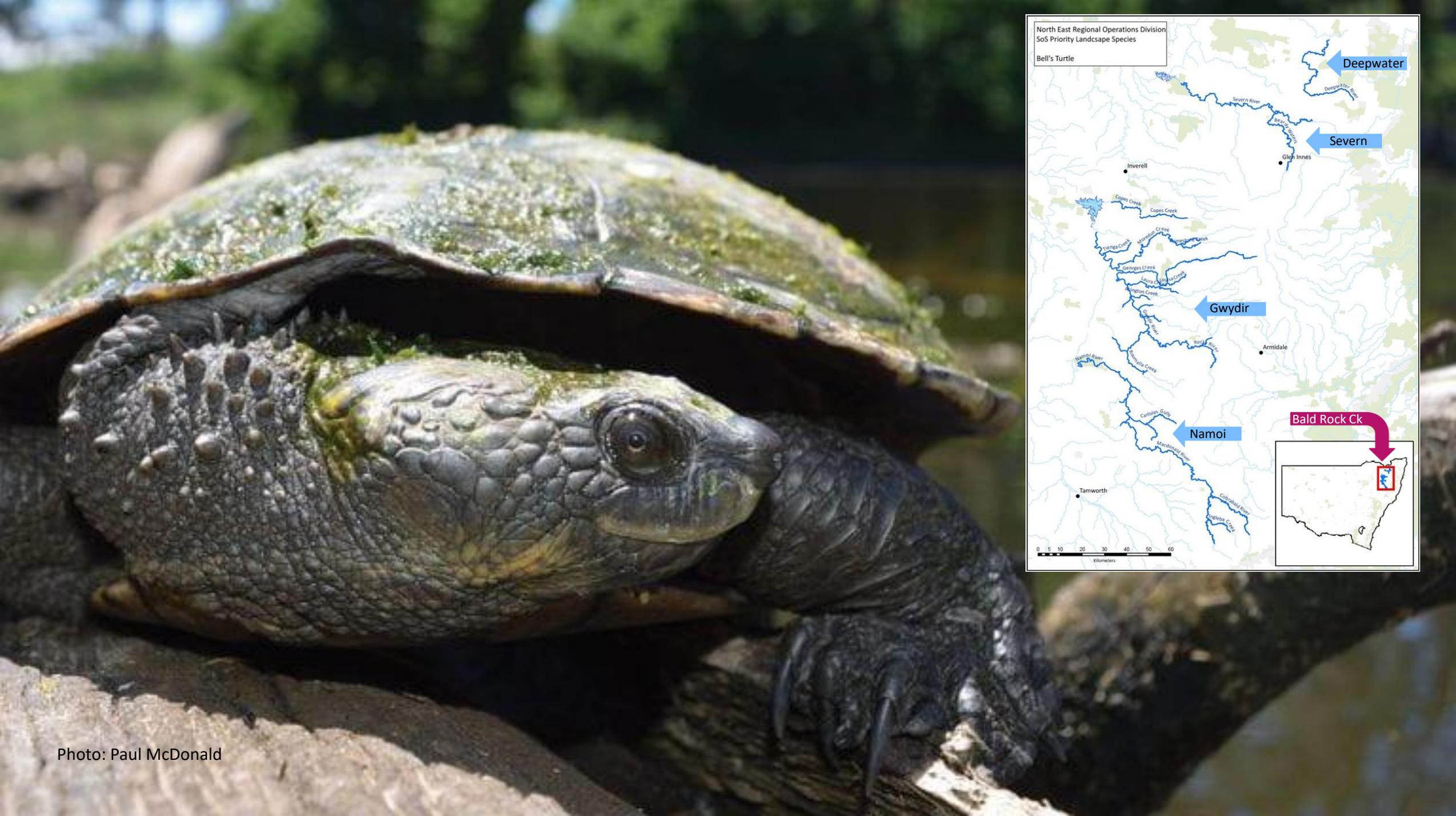
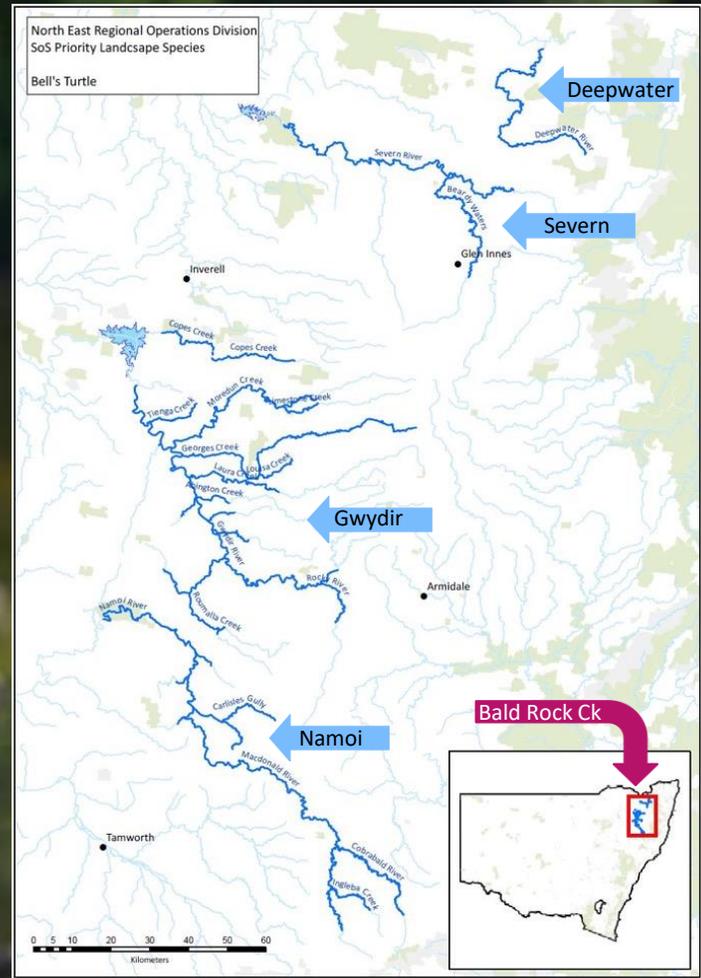


Photo: Paul McDonald





Ltl Acorn



066°F

019°C

11/21/2018 14:46:01

97-100%
of nests
raided
each season



Ltl Acorn (073°F 023°C 02/11/2018 22:26:02





Photo: Canines for Wildlife







CameraName

60°F 15 °C

02-11-2018 20:08:28



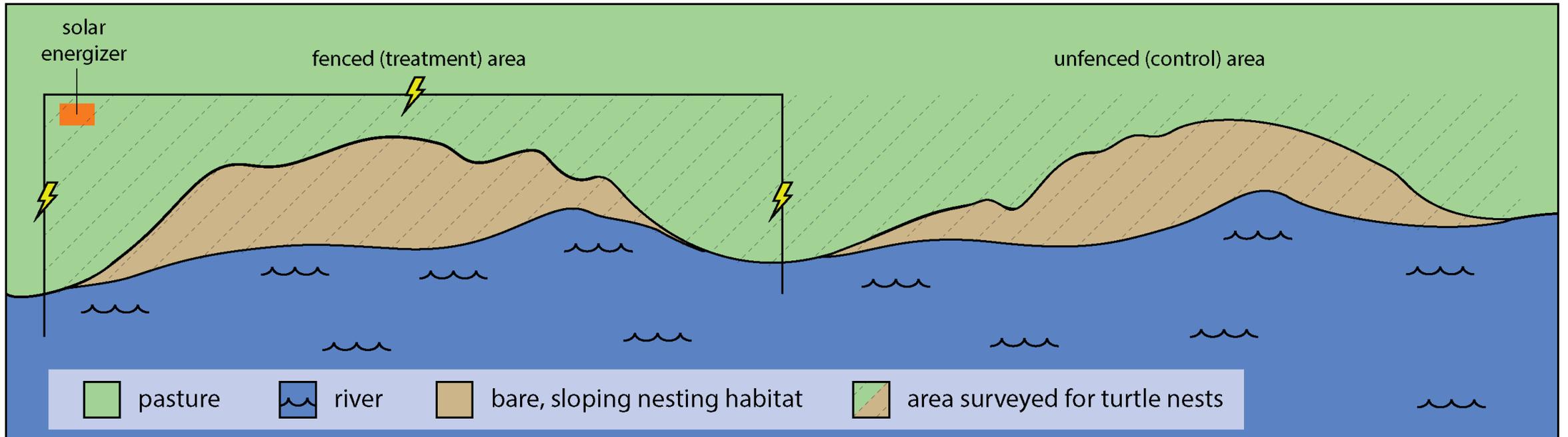
80%

2021/02/27 17:14:27 33C 91F CamPark-T85



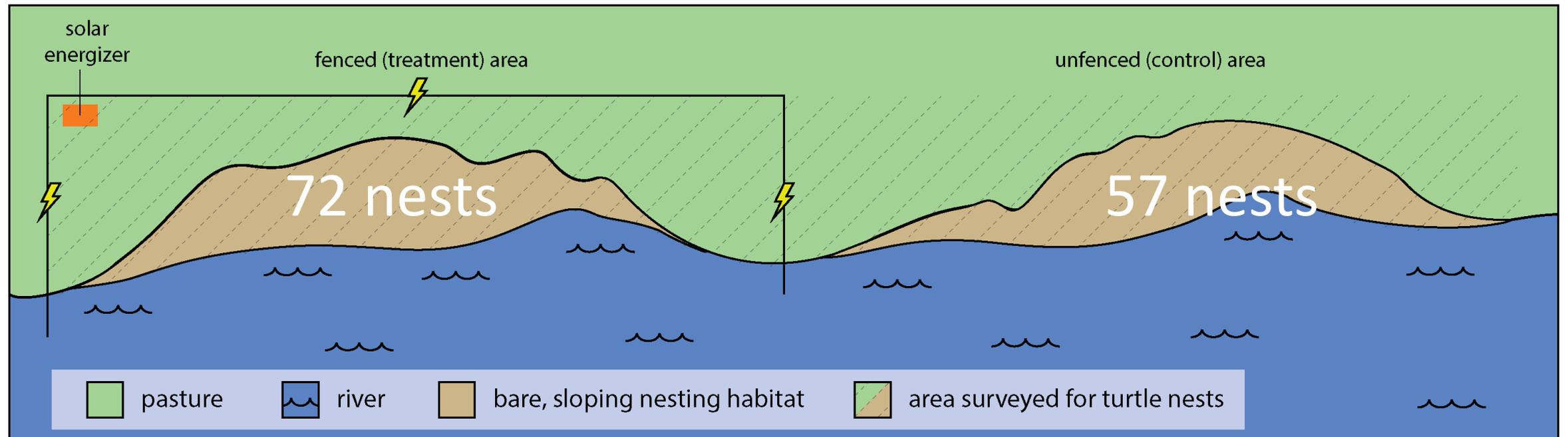
Over three nesting seasons (2019/20, 2020/21, 2021/2022) we trialed 17 fences

Diagram of an experimental site comprising a fenced (treatment) area and an adjacent unfenced (control) area



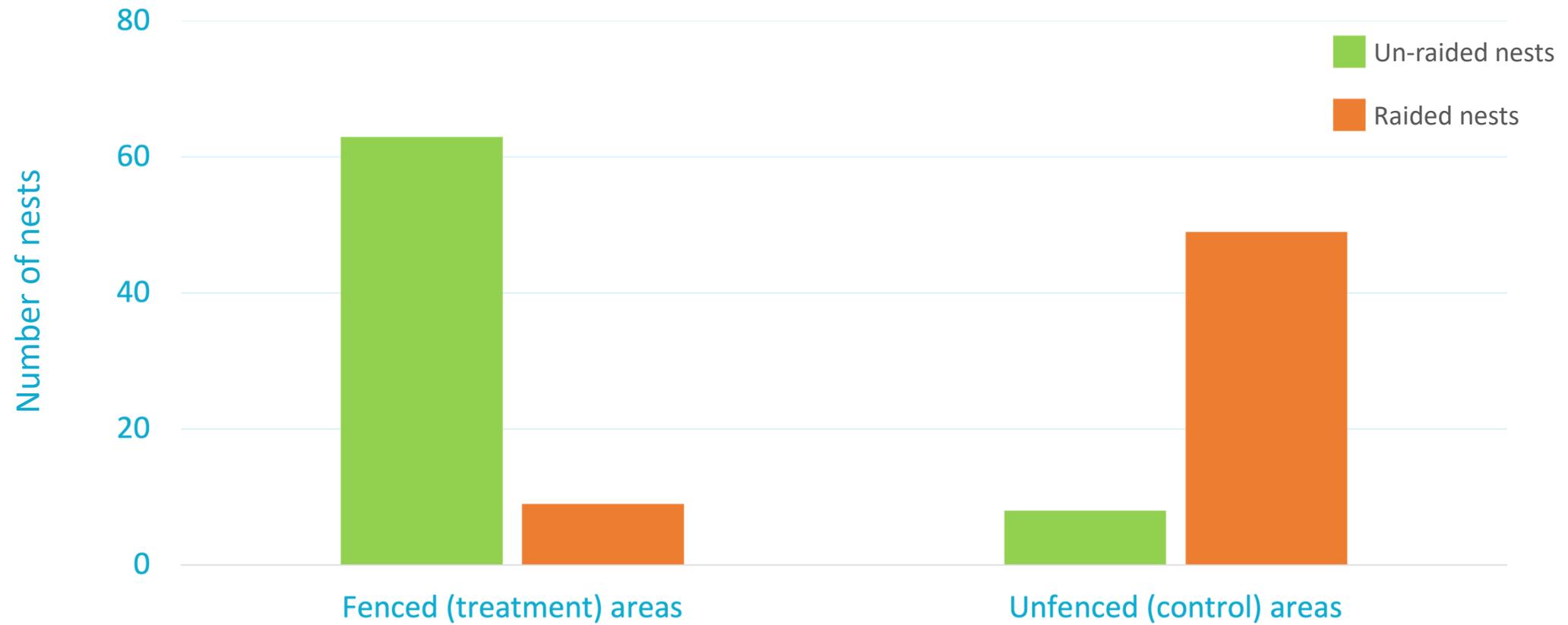
129 nests

Diagram of an experimental site comprising a fenced (treatment) area and an adjacent unfenced (control) area

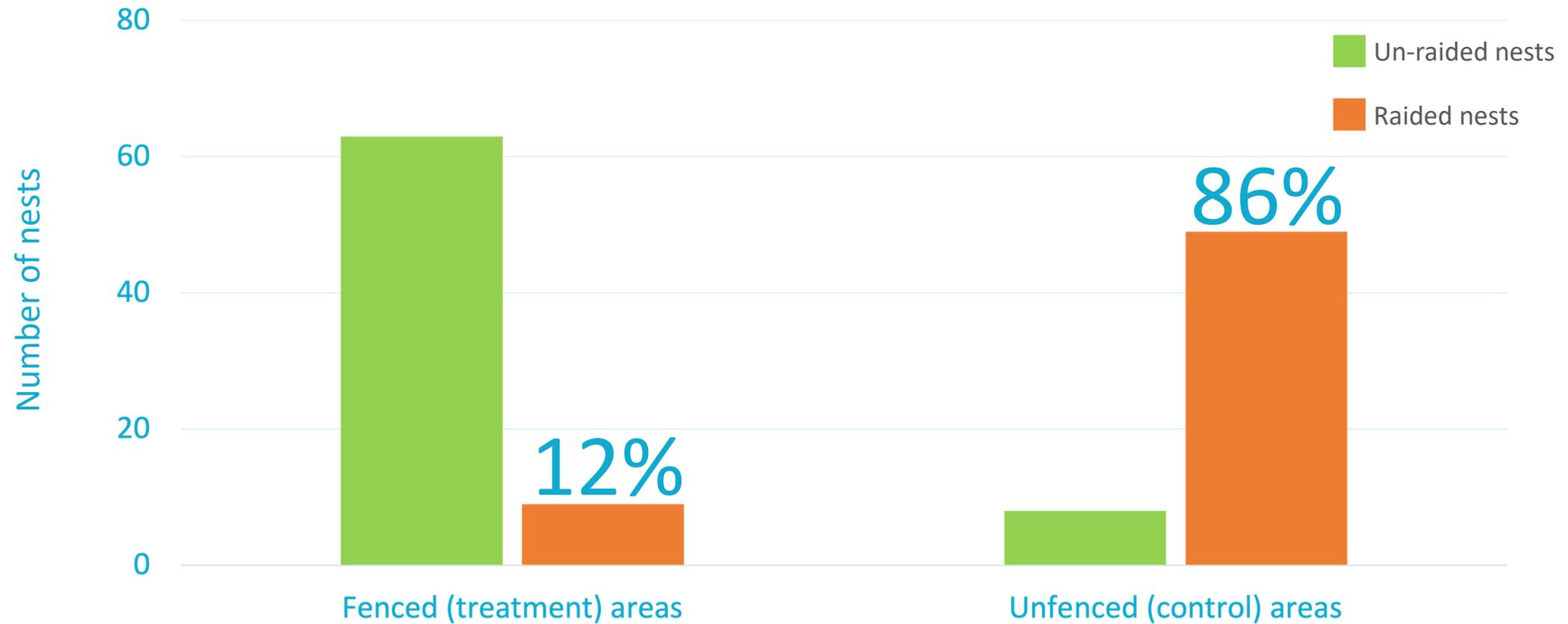


The numbers of nests found in treatment areas ($n = 72$, 56%) and control areas ($n=57$, 44%) were not significantly different ($\chi^2=1.0139$, $p=0.3140$, $df=1$)

Turtle nest predation in fenced and unfenced areas

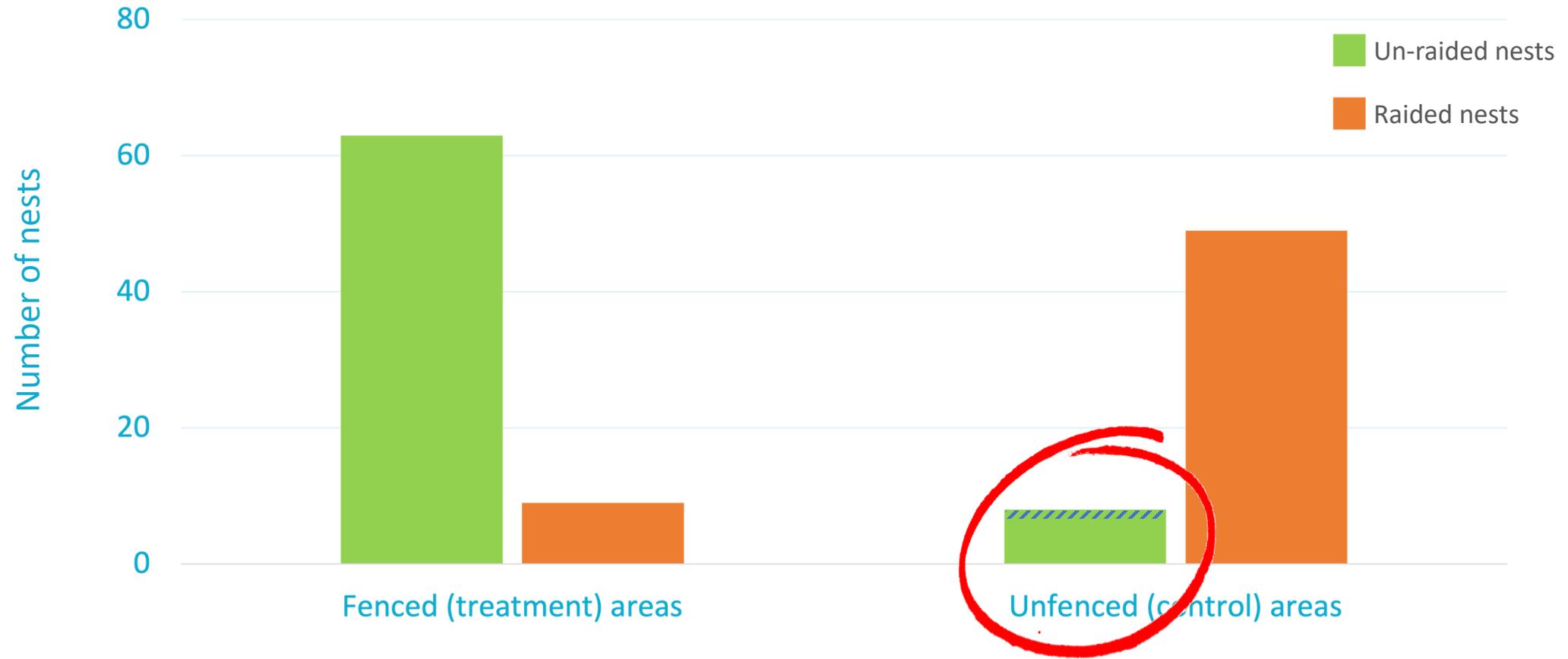


Turtle nest predation in fenced and unfenced areas

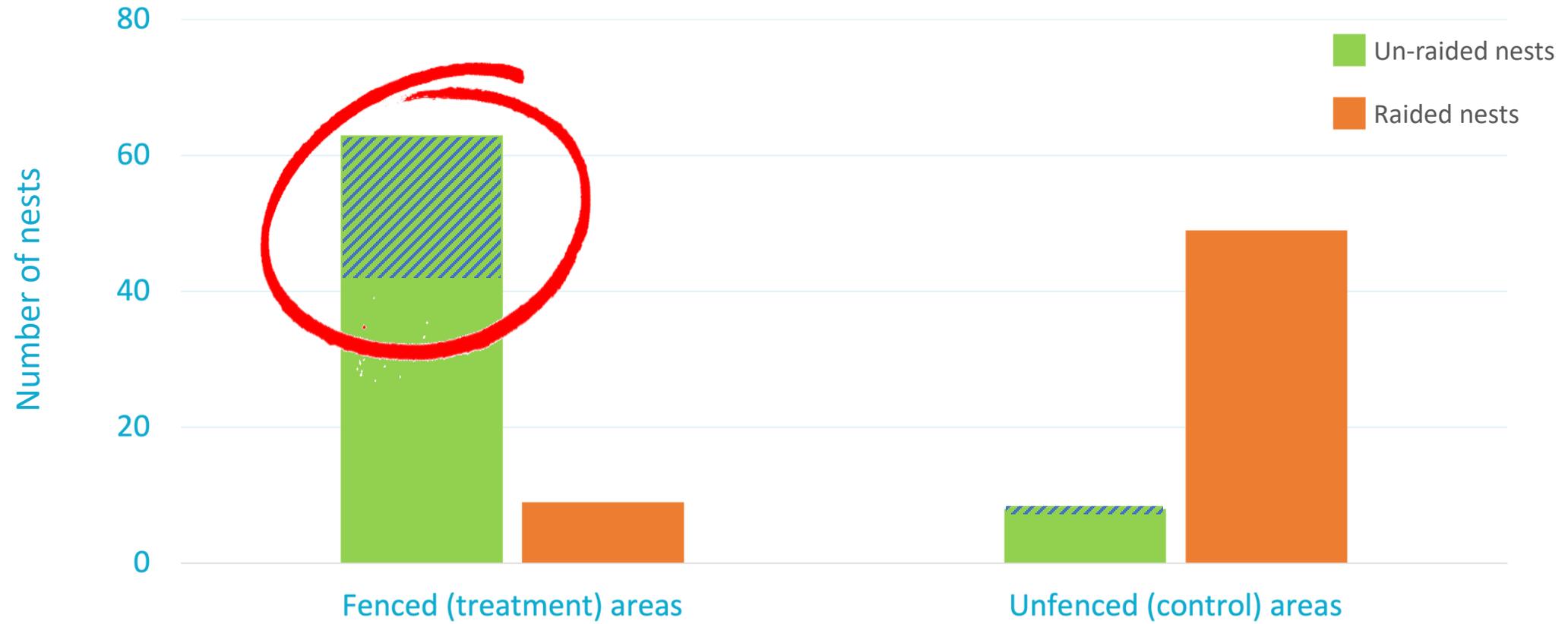


The proportion of raided nests was significantly lower in treatment areas than in control areas ($\chi^2 = 12.8469, p=0.0003, df=1$)

Turtle nest predation in fenced and unfenced areas



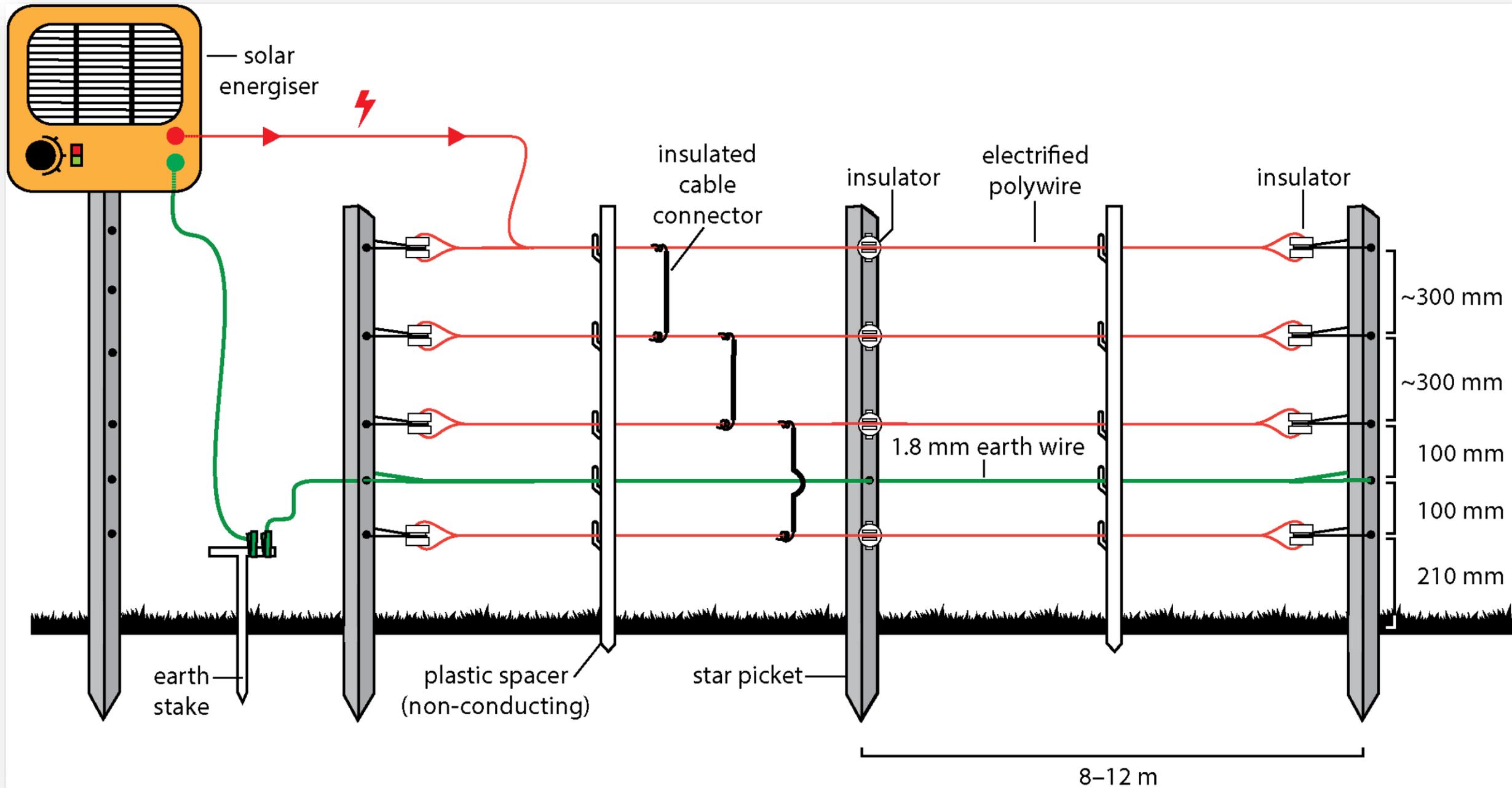
Turtle nest predation in fenced and unfenced areas











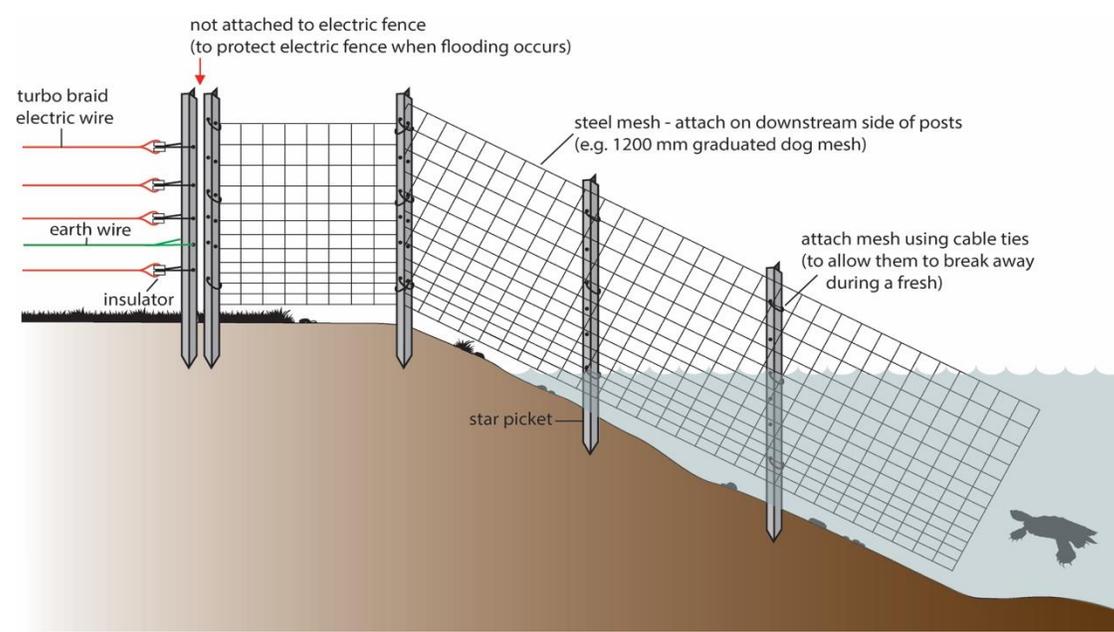




Photo: David Waugh



Bell's Turtles - Turtles Forever Project



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BELL'S TURTLE

NEST PROTECTION GUIDELINES

LOUISE STREETING
PHIL SPARK
BRAD NESBITT
JACK NESBITT
LYNN BAKER
MARTIN DILLON



Photo: David Waugh



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