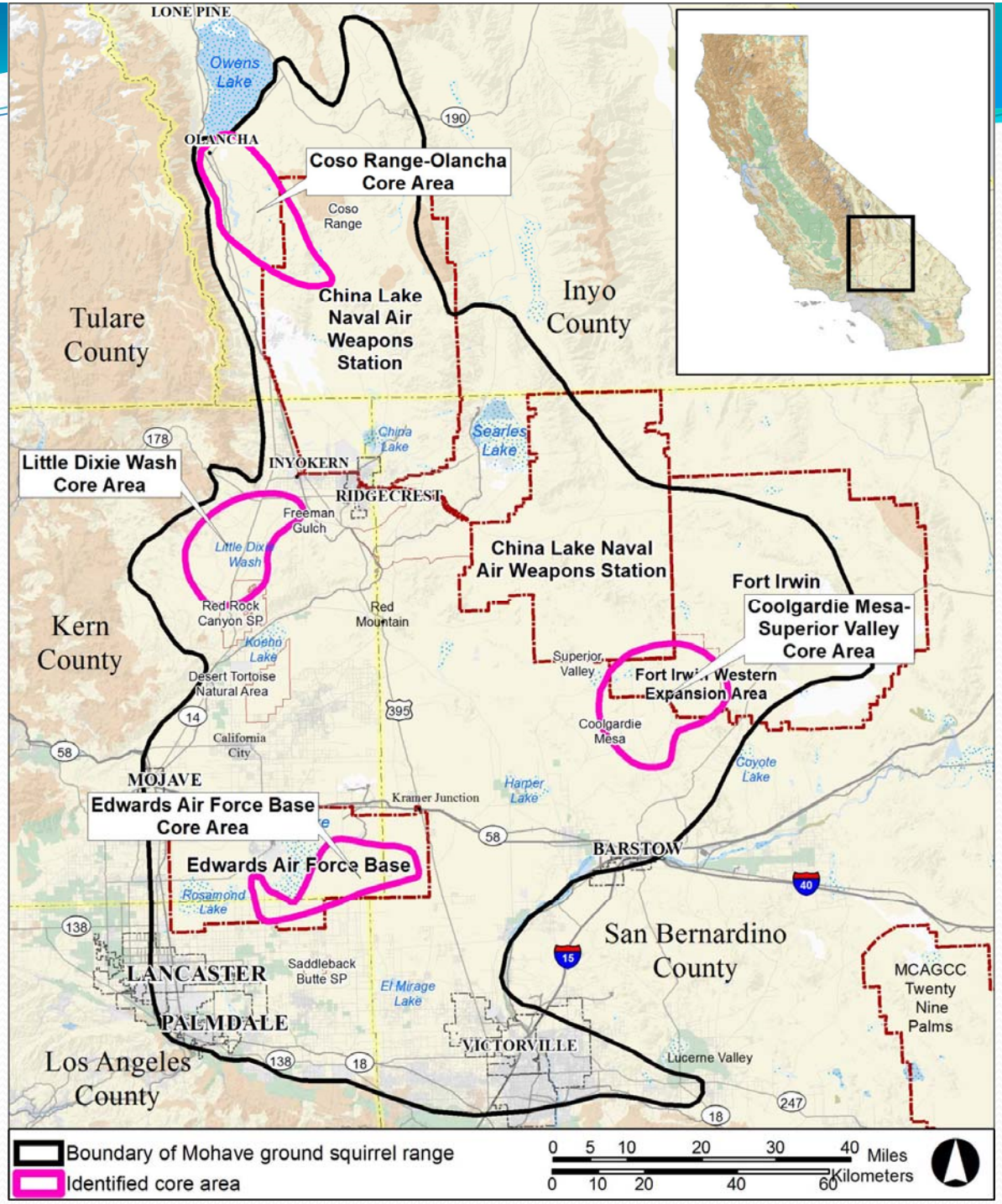
MGS Projects 2018

Leitner and friends

Quick Review of 2018

- Coso Long-term Monitoring
- BLM Grant – 2 Core Areas
- BLM Grant – MGS/RTGS Contact Zone
- BLM Grant – 3 Development Focus Areas


LONE PINE
Owens Lake
OLANCHA
Coso Range-Olancha Core Area
Coso Range
China Lake Naval Air Weapons Station
Tulare County
Inyo County
Little Dixie Wash Core Area
INYOKERN
RIDGECREST
China Lake
Searles Lake
Freeman Gulch
Little Dixie Wash
Red Rock Canyon SP
Red Mountain
Koehn Lake
Desert Tortoise Natural Area
Kern County
China Lake Naval Air Weapons Station
Fort Irwin
Coolgardie Mesa-Superior Valley Core Area
Superior Valley
Fort Irwin Western Expansion Area
Coolgardie Mesa
Coyote Lake
California City
MOJAVE
Edwards Air Force Base Core Area
Kramer Junction
Harper Lake
Edwards Air Force Base
Rosamond Lake
BARSTOW
San Bernardino County
LANCASTER
Saddleback Butte SP
El Mirage Lake
PALMDALE
VICTORVILLE
Lucerne Valley
MCAGCC Twenty Nine Palms
Los Angeles County
Boundary of Mohave ground squirrel range
Identified core area
0 5 10 20 30 40 Miles
0 10 20 40 60 Kilometers

Coso Long-Term Monitoring

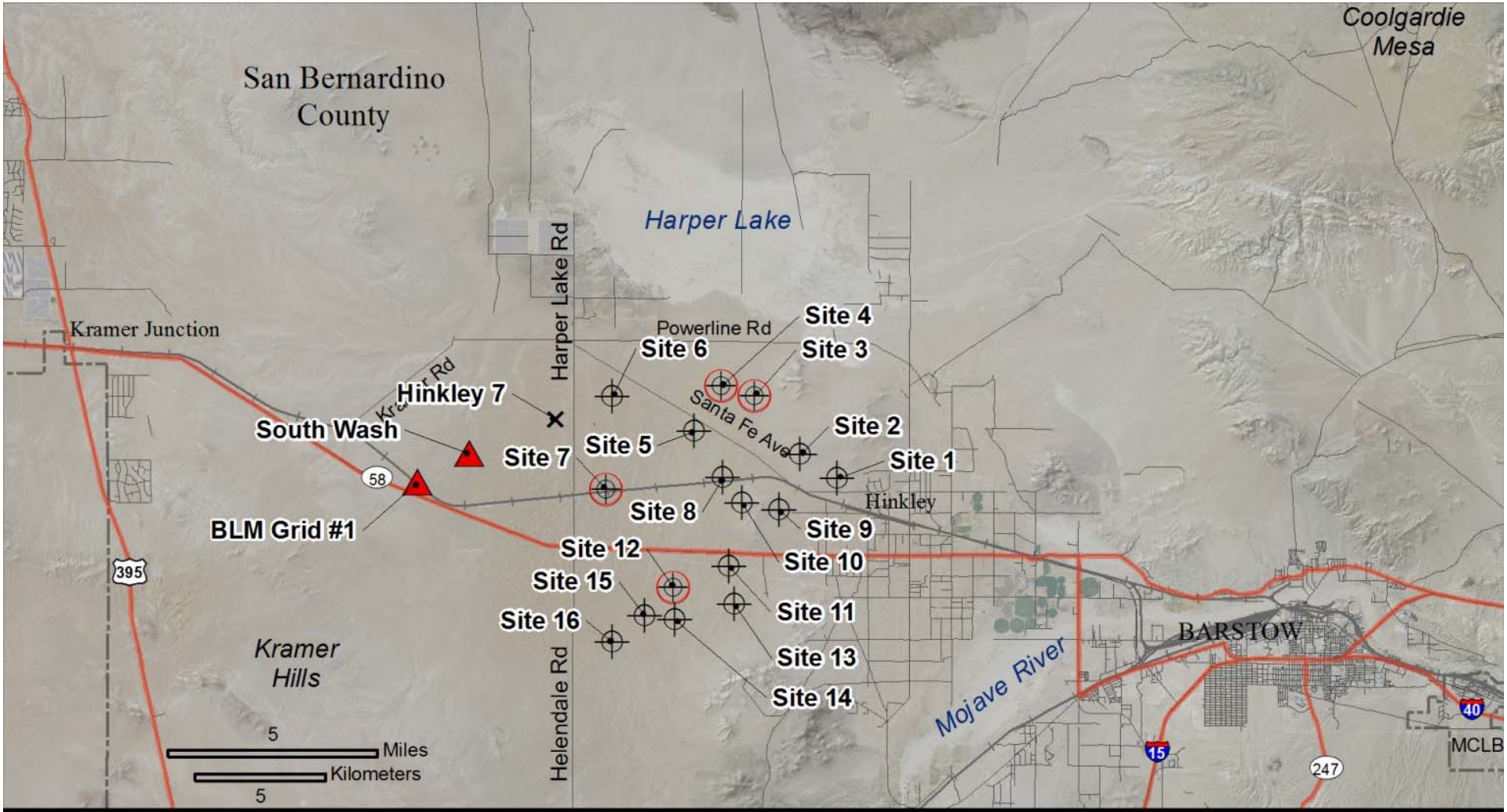
- March 2018 – good results at both Coso Basin and Cactus Peak
- Good rainfall 2017-18 winter
- Reproduction throughout Coso Range-Olancha core area in 2018

BLM Grant – 2 Core Areas

- Trapped 4 grids in Little Dixie Wash, with MGS at 2 sites
- Best results here since surveys started in 2016
- Trapped 3 grids in Coolgardie Mesa, with MGS at 1 site
- Again, best results since surveys started in 2016
- Reason: 2016-17 winter rain was high throughout MGS range, with 2017 reproduction and good survival in both core areas

BLM Grant – MGS/RTGS Contact Zone

- Camera study showed MGS moving to the E of Harper Lake Road
- Live trapping confirmed MGS persisting to the W of Harper Lake Road
- But winter rainfall was very low (~30 mm) and no reproduction – first time in contact zone in past 5 yrs

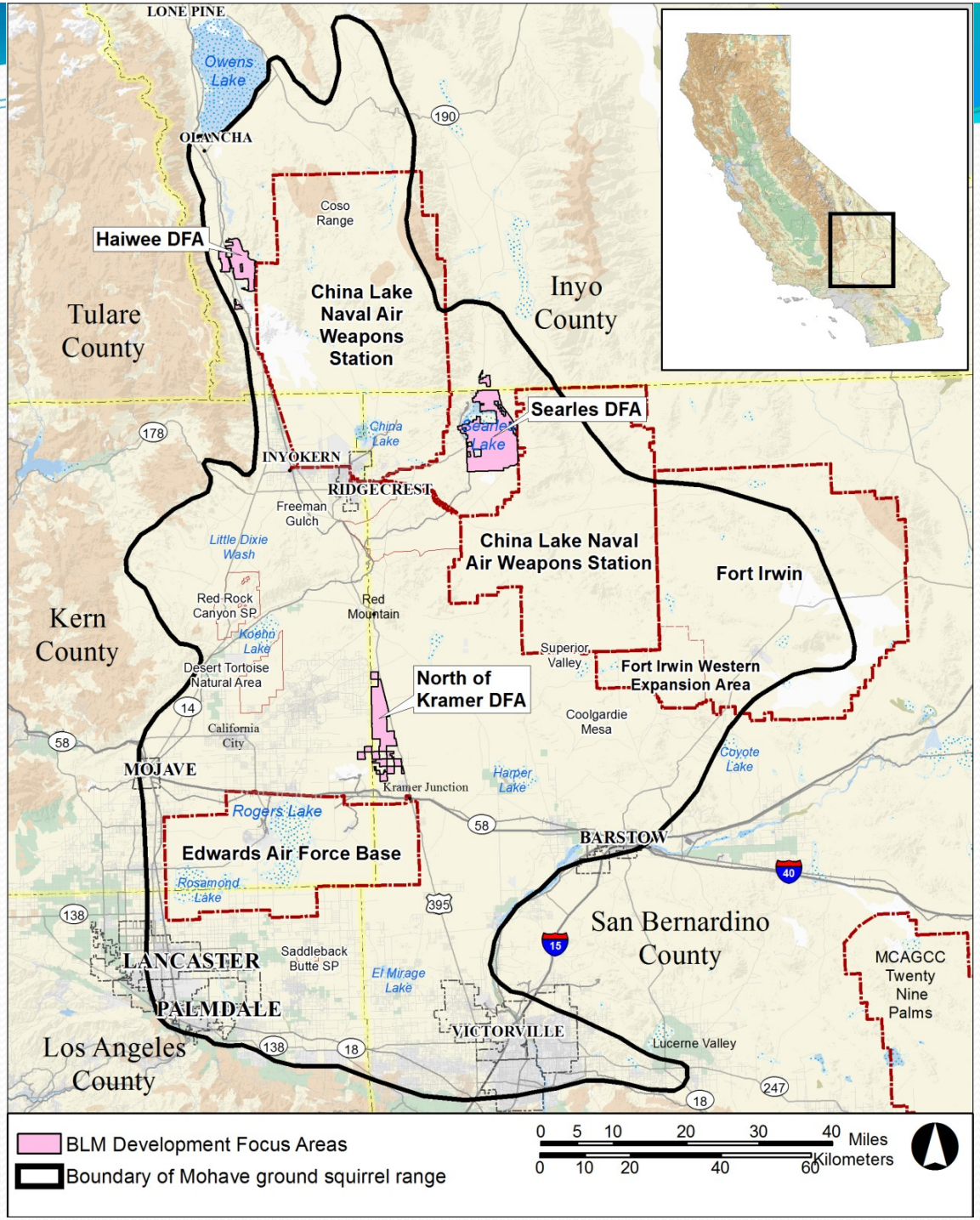


Trapping grid location

- ▲ MGS detected
- × Incidental detection
- △ MGS not detected

Camera sites

- ⊕ MGS detected
- ⊕ MGS not detected


LONE PINE
Owens Lake
OLANCHA
190
Coso Range
Haiwee DFA
China Lake Naval Air Weapons Station
Inyo County
Tulare County
Searles DFA
Searles Lake
China Lake
178
INYOKERN
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Desert Tortoise Natural Area
North of Kramer DFA
14
Coolgardie Mesa
California City
58
Coyote Lake
MOJAVE
Harper Lake
Kramer Junction
Rogers Lake
58
BARSTOW
Edwards Air Force Base
Rosamond Lake
40
395
138
San Bernardino County
15
LANCASTER
Saddleback Butte SP
El Mirage Lake
MCAGCC Twenty Nine Palms
PALMDALE
VICTORVILLE
Los Angeles County
138
18
Lucerne Valley
247
18
BLM Development Focus Areas
Boundary of Mohave ground squirrel range
0 5 10 20 30 40 Miles
0 10 20 40 60 Kilometers

BLM Grant – 3 DFAs

- Haiwee DFA – juvenile MGS at both trap grid and camera site
- North of Kramer DFA – lots of adult MGS, but no reproduction
  - MGS detected at 3 of 4 camera sites
  - MGS captured at all 4 trapping grids
- Searles DFA – MGS at 1 of 4 camera sites, no trapping done in 2018