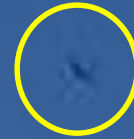


Soil Moisture Active Passive Validation Experiment 2015 SMAPVEX15



Mike Cosh
ARS USDA

Aircraft



Physical Samples



In Situ



Walnut Gulch

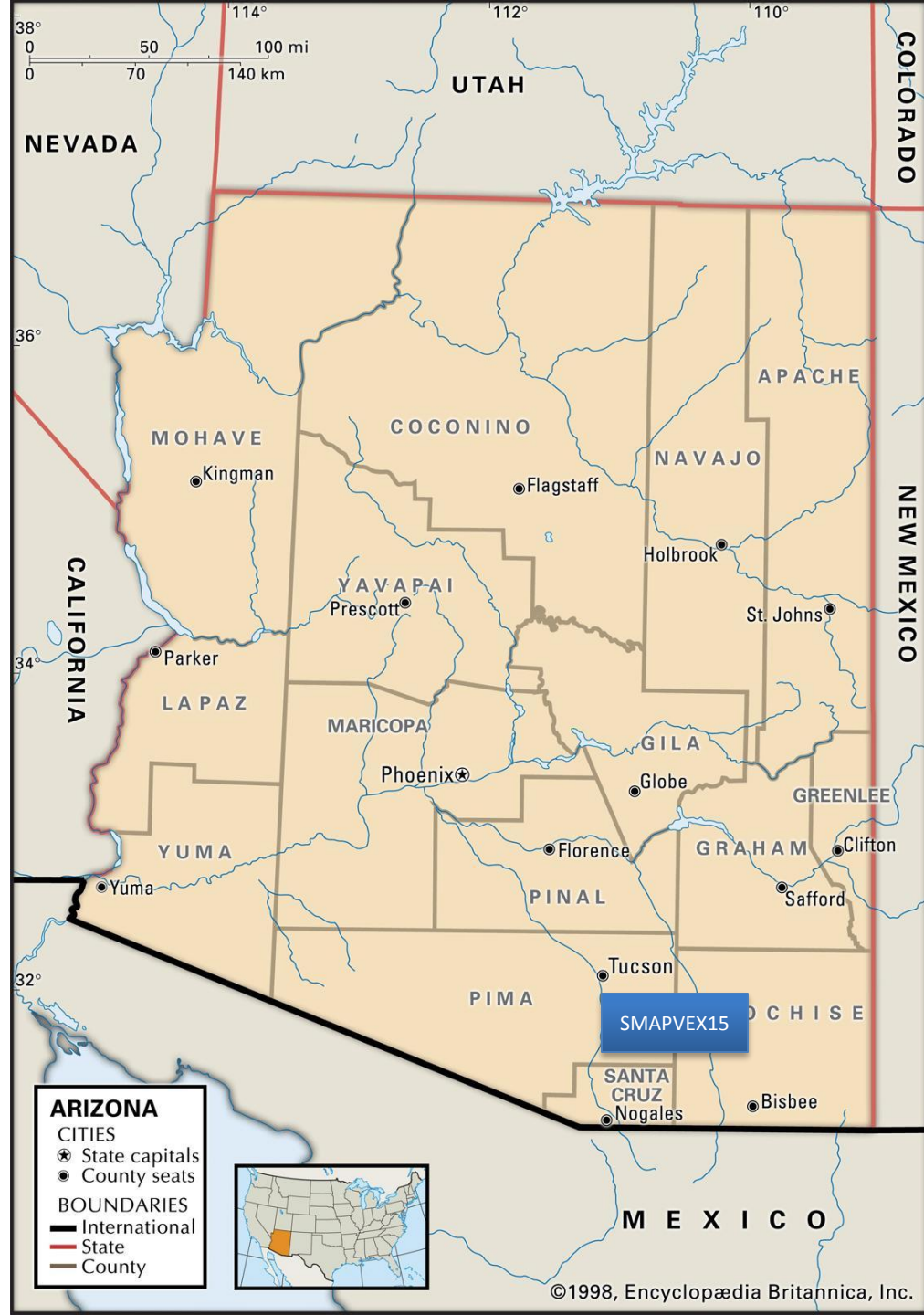


Santa Rita

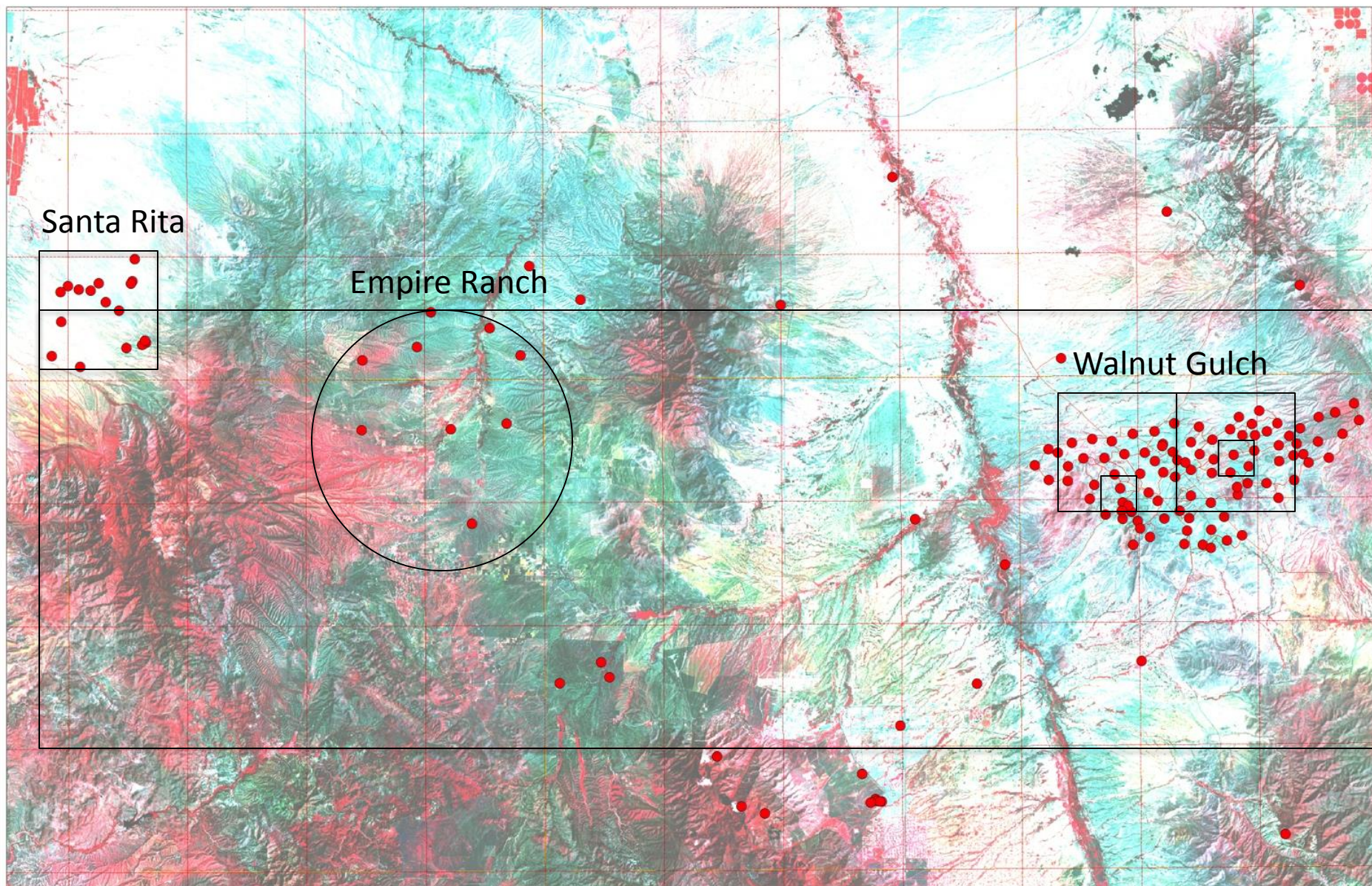


Empire Ranch





SMAPVEX15 Domain



Schedule

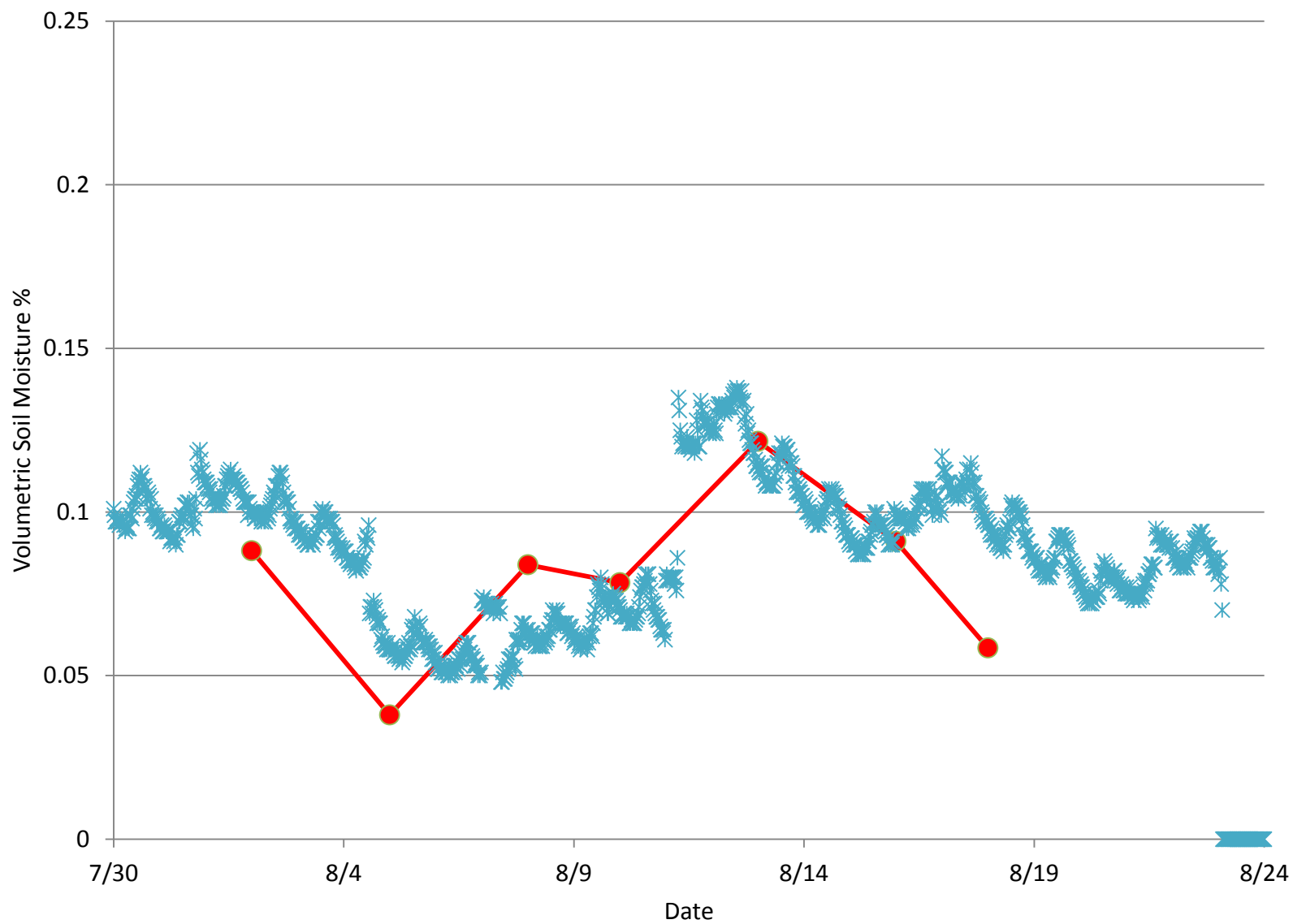
				Will have Car? (4WD)	Arriving (when where)	Need pickup at airport	Hotel	Th	F	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	
								30-Jul	31-Jul	1-Aug	2-Aug	3-Aug	4-Aug	5-Aug	6-Aug	7-Aug	8-Aug	9-Aug	10-Aug	11-Aug	12-Aug	13-Aug	14-Aug	15-Aug	16-Aug	17-Aug	18-Aug	19-Aug	20-Aug
ver 07/27/2015			Cellphone				Grand	flyin	X	X	G			G		flyin	G	G	G	flyout	BD	G			G				flyout
Mike Cosh	HRSL	michael.cosh@ars.usda.gov	410-277-2478	Yes	7/30 at 2pm	No	Grand									flyout													
Alex white	HRSL	alex.white@ars.usda.gov	410-279-2637	Yes	8/7 at 7-42pm	No	Grand	flyin	X	X	B			O			Y												
Evan Coopersmith	HRSL	ecoper2@gmail.com	606-71-2087	Yes	7/30 at 2pm	No	Grand	flyin	X	X	Y						Y			SFO	LAHKE	LAHKE		X	X	Y	X	Y	X
Lynn McKee	HRSL	lynn.mckee@ars.usda.gov	202-679-3654	4WD	7/30 at 2pm	No	Grand	flyin	X	X																			
Neelam Maheshwari	TAMU	nimmaheshwari@gmail.com	980-213-5757	4WD	7/31 Phoenix	No	Grand																						
Nandita Gaur	TAMU	nandita.gaur@tamu.edu	404-353-6714	No	7/31 at 7 P.M. (Phoenix)	No	Grand																						
Ruzbeh Akbar	USCalifornia	rakbar@usc.edu	301-300-0742	Yes	08/07 at 10am Tombstone	No	Grand										B	S	B	S	S	G	S	S	R	S			
Agnelo Silva	USCalifornia	agnelors@gmail.com		No	08/07 at 10am Tombstone	No	Grand										G	S	B	S	S	B	S	S	R	S			
Hukuian Li	USCarolina	hz0032@tigermail.auburn.edu	334-750-5019	Yes	07/31 around 3 pm	No	Landmark		X	B				G			O												
Yuna Duan	Ohio State	duan.138@buckeyeemail.osu.edu	614-404-5629	No	7/31 at 2:11pm	yes	Grand		X	G				Y															
Huanting Huang	U. Michigan	huanght@umich.edu	206-779-6654	No	8/3 at 5-37pm	yes	Grand					B	Y	B	B	Y	B	Y	Y	BD	BD	BD	B	B					
Peter Shellito	U. Colorado	peter.shellito@colorado.edu	339-225-2096	Yes	7/31 at 2-50 pm to PHX	no	Grand		X	G				Y			Y		Y	BD	BD	Y							
Fangni Lei	HRSL	fangni.lei@ars.usda.gov	301-800-8807	No	7/31 at 2pm Tucson	Yes	Grand		X	Y				Y	X		Y		Y	BD	BD	Y							
Julian Koch	Princeton	jk12@princeton.edu	609-423-5849	Yes	7/30 at 5pm	No	Grand		X	X	G			R?															
Xiaogang He	Princeton	hexg@princeton.edu	405-356-4926	Yes	7/30 at 5pm	No	Grand		X	X																			
Rike Becker	UCLA	rbecker@ucla.edu	301-869-2030	Yes	7/31 at 10pm	No	Grand							R			R		R	WF	WF	WF	R	WF					
Min Liew	UCLA	minliew@yahoo.com	650-746-7415	No	7/31 at 10pm	No	Grand							R			R		R	WF	WF	WF	R	WF					
Maria Abrahamowicz	Env Canada	maria.abrahamowicz@ec.gc.ca	613-797-9924	No	7/31 at 10pm	yes	Grand		X	Y				G			OR		R	G	WF	WF	G	WF					
Sean McCartney	GSFC	sean.mccartney@nasa.gov	None	Yes	8/8 at 9 PM	no	Grand										(travel)												
Rachel Bowen	GSFC	rachel.g.bowen@nasa.gov	443-567-3077	Yes	7/31 at 10am	No	Grand		X	O				O															
Amanda Rumsey	GSFC	amanda.c.rumsey@nasa.gov	703-915-2006	Yes		no	Grand																						
Narendra Das	JPL	Narendra.N.Das@jpl.nasa.gov		Yes	8/8 at 9 PM	no	Grand																						
Sab Kim	JPL	Seungbum.Kim@jpl.nasa.gov	626-390-7058	Yes		no	Grand																						
Chandra Hollifield Collins	ARS	Chandra.hollifield@ars.usda.gov		Yes	7/31 10pm	no	Tucson		X	O	V	V		O	V	V	R	V		-X									
Tucson #2				Yes		No	local																						
Tucson #3							local			X				X			X			X									
Tucson #4				Yes			local			X				X			X												
Tombstone ARS							local																						
Count										X				X			X		X										
R-Roughness	V-Vegetation	B-Bulk Density/Rock Fraction																											
Name Bold-Confirmed																													

Schedule

July

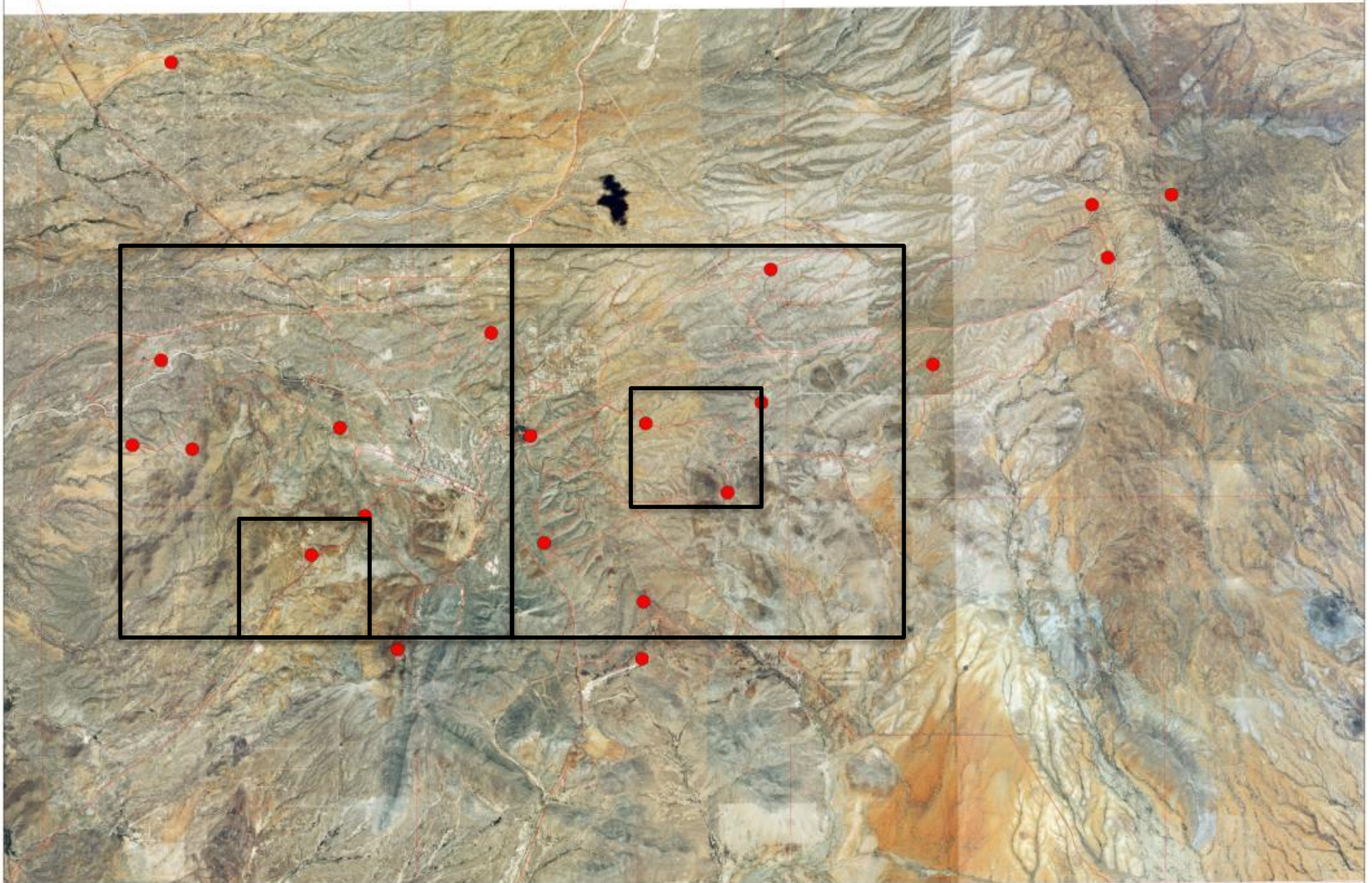
August

26	27	28 L8 WG	29	30	31	01
02 PALS	03	04 L8 SR	05 PALS	06	07	08 PALS AirMOSS COSMOS Rover
09	10 PALS AirMOSS COSMOS Rover	11	12	13 L8 WG PALS AirMOSS COSMOS Rover	14	15
16 PALS AirMOSS	17	18 PALS AirMOSS	19	20	21	22
23	24	25	26	27	28	29

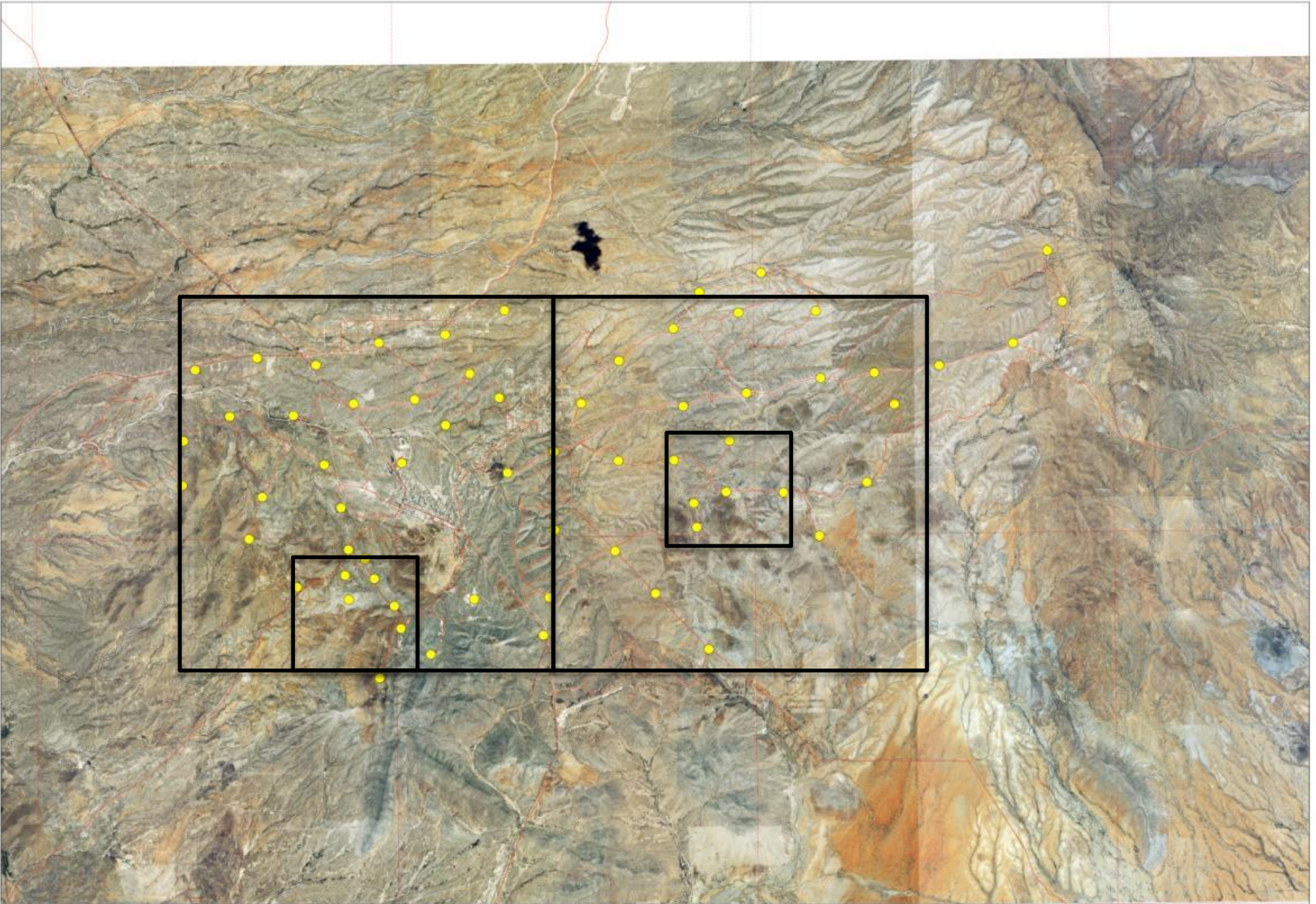


Temporary Network





Temporary Network



Gravimetric and Theta Probe Sampling



- 3 Theta Probe Readings
- 2 Temperature Readings
- 1 Gravimetric Sample

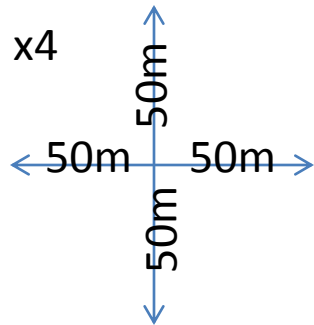
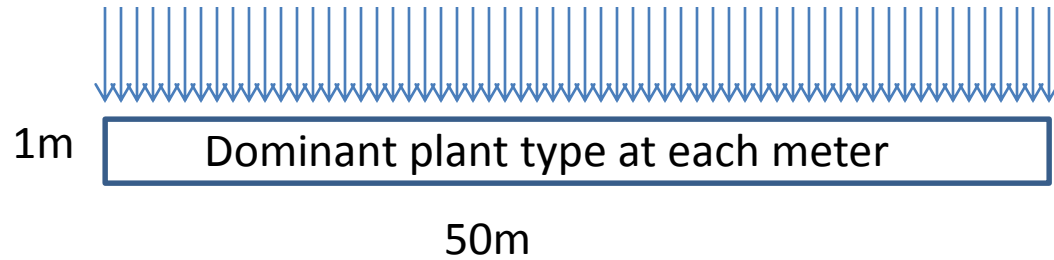
Bulk Density



Surface Roughness



Vegetation Sampling



Approx. 50% bare soil

Vegetation Sampling



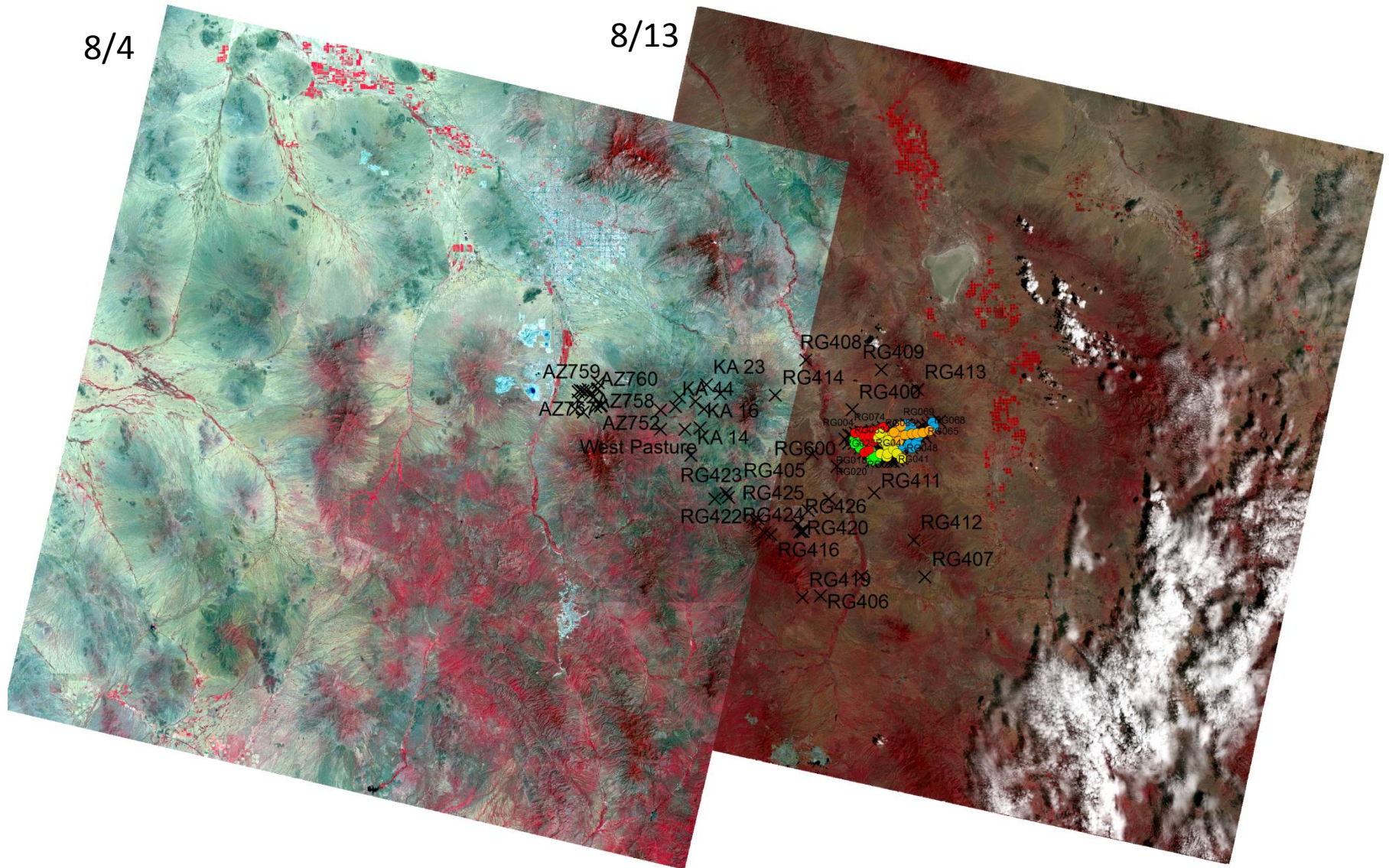
Vegetation Sampling

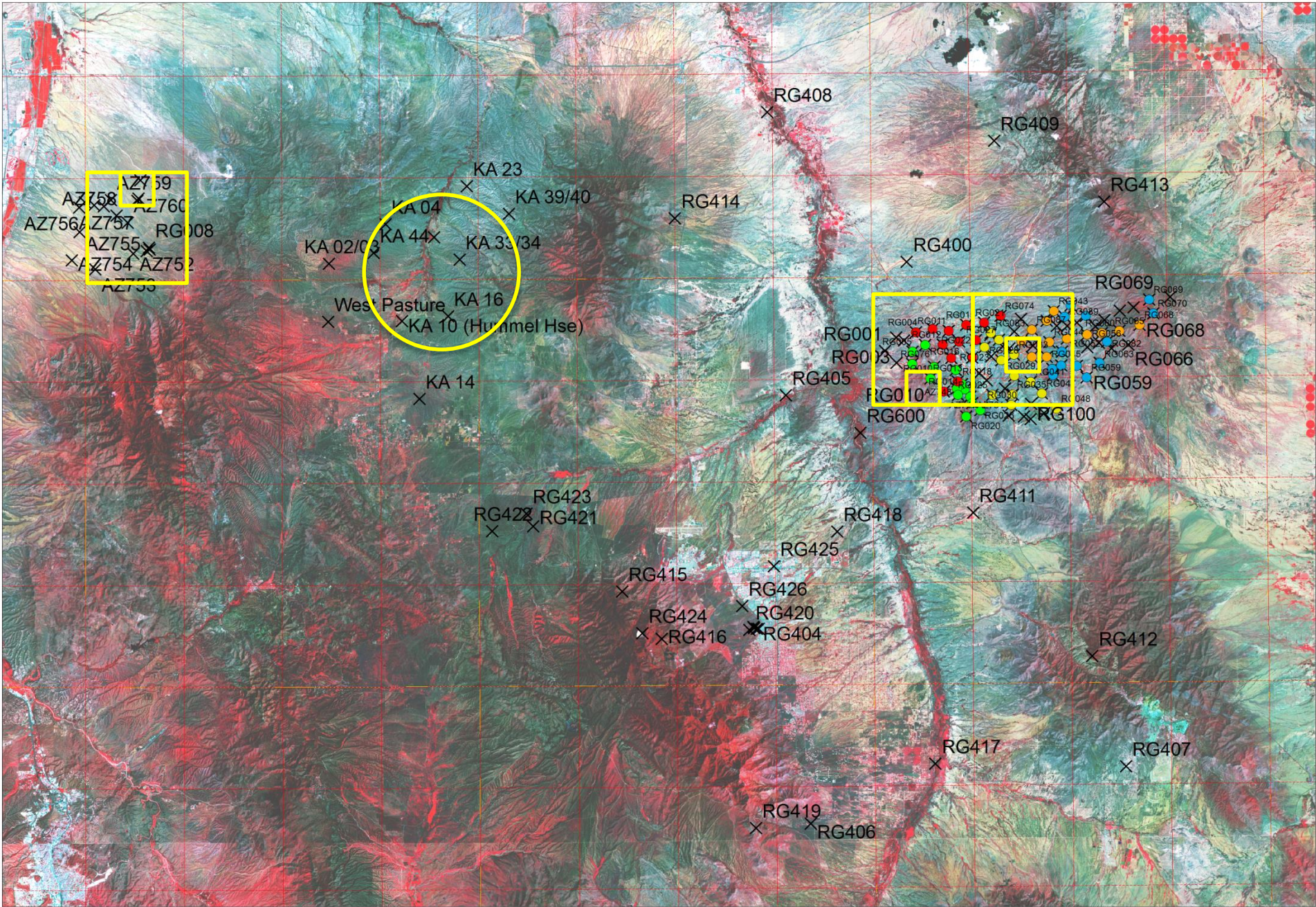


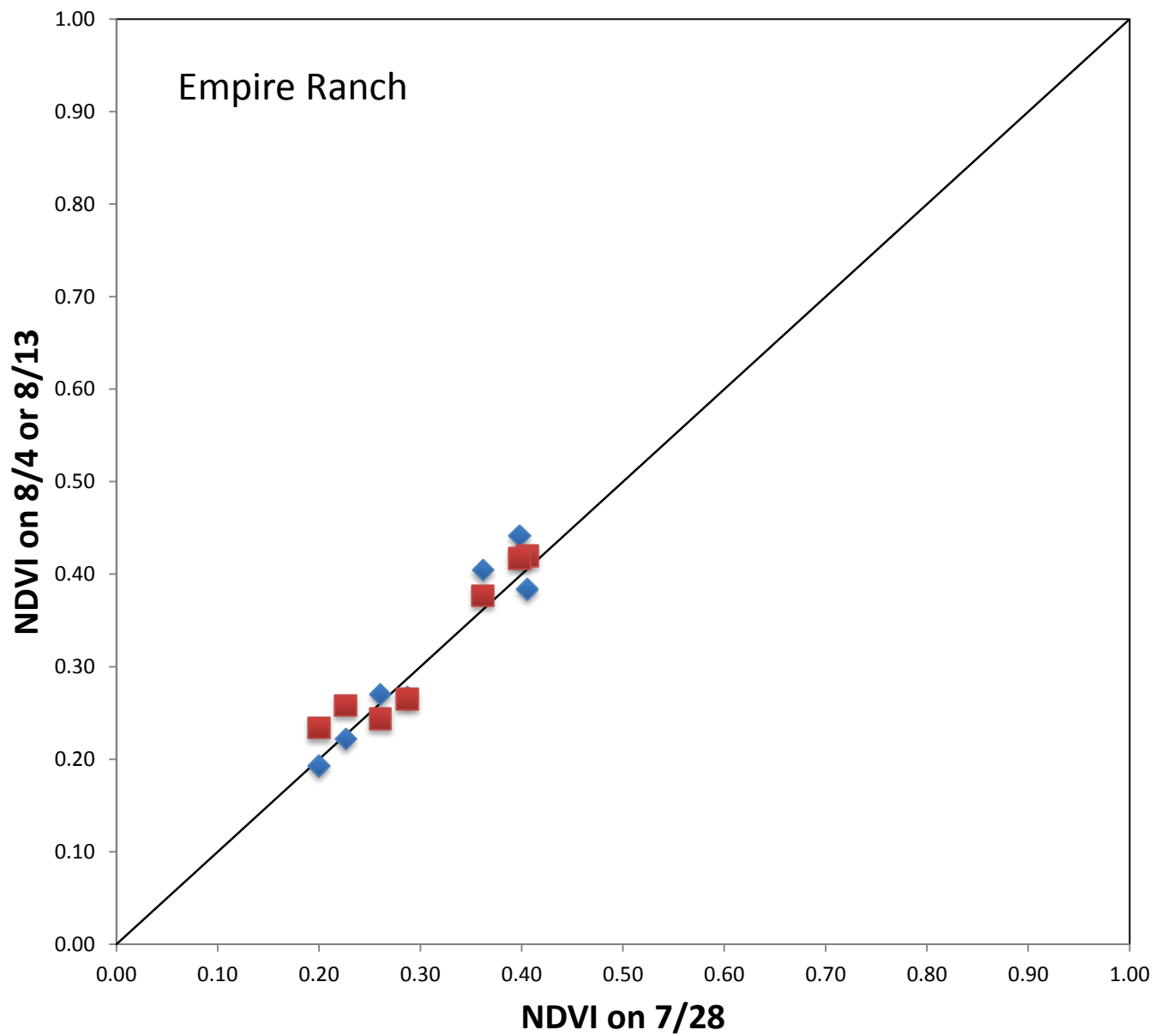
Landsat 8

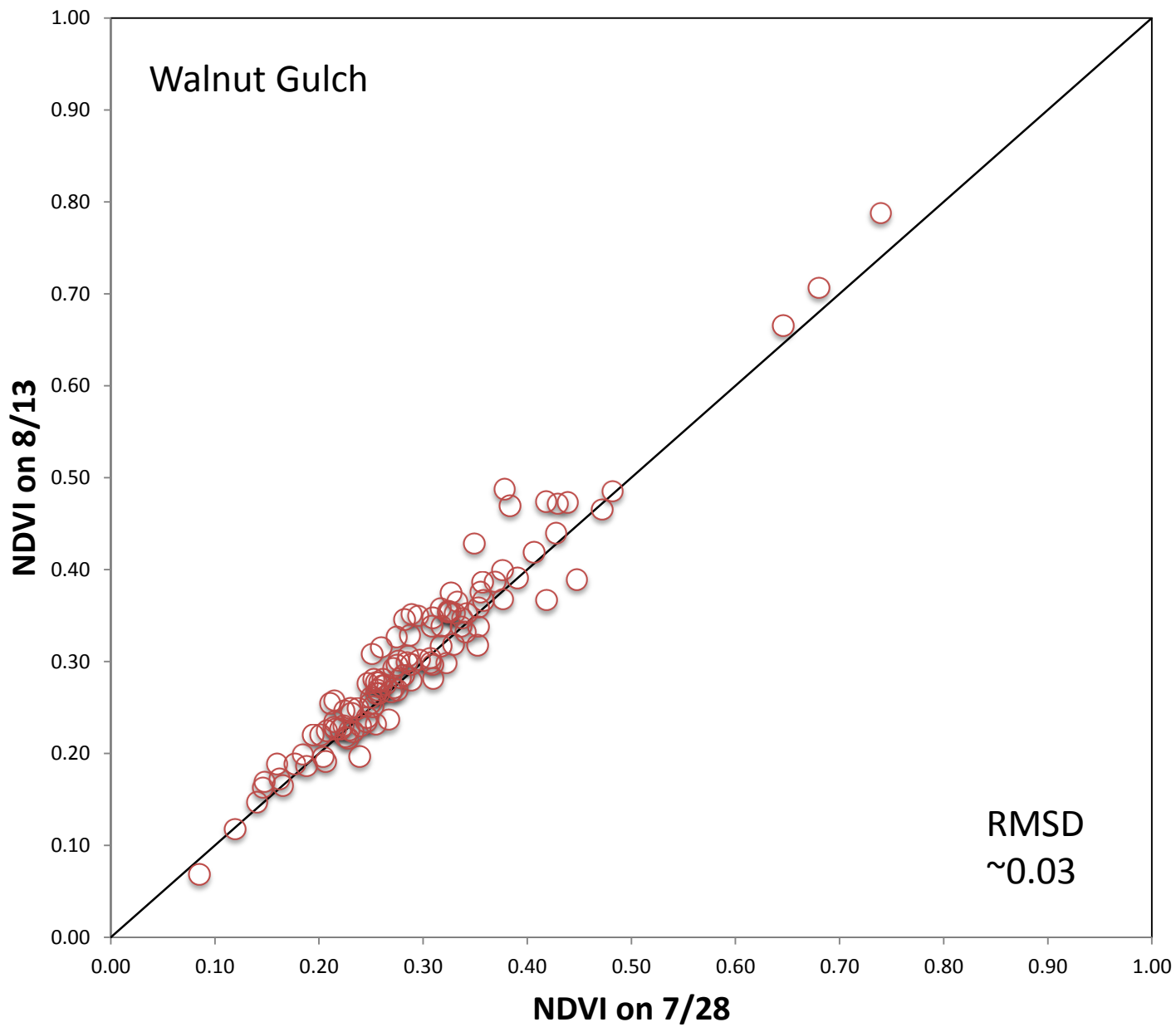
8/4

8/13









To be completed:

Gravimetrically-Based Volumetric Soil Moisture (GVSM)

Bulk Density

Rock Fraction

Calibration

Surface Roughness

Vegetation Sampling Analysis

Vegetation Mapping

Temporary Network Retrieval and Calibration

In situ Network comparisons and recalibration

Anomalies

