

Lake Elsinore

Satellite Scans Ch-*a*

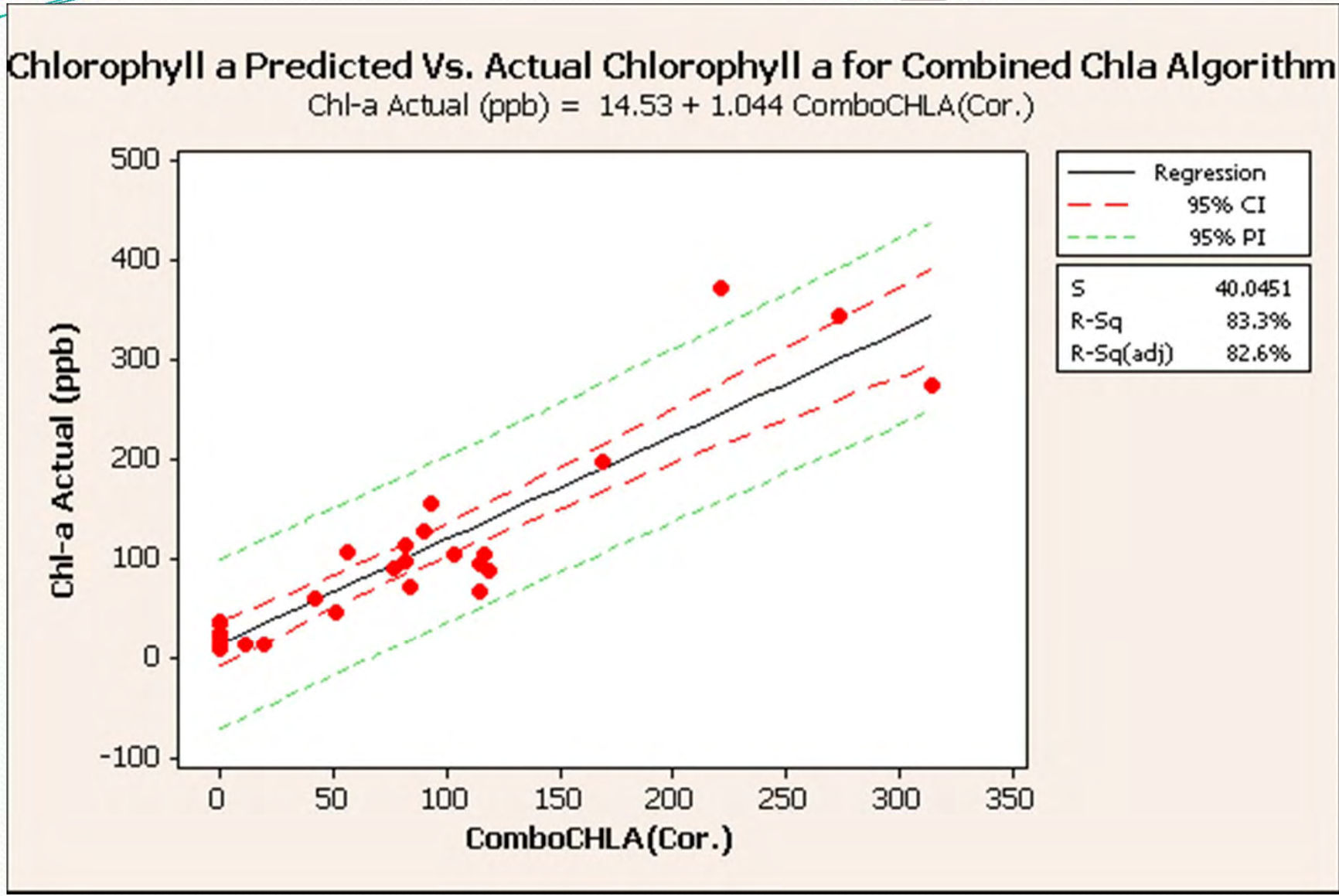
1997-2009

Blue Water Satellite
Bowling Green, OH

Comparison of Chl a Algorithm Results with In Situ
Chl a Measurements Confined to Satellite and In Situ
Data from 11 LANDSAT Overpass Dates Only

Dr. Robert K. Vincent
Chief Technical Officer
Blue Water Satellite, Inc.
Bowling Green, OH
rvincen@bluewatersatellite.com

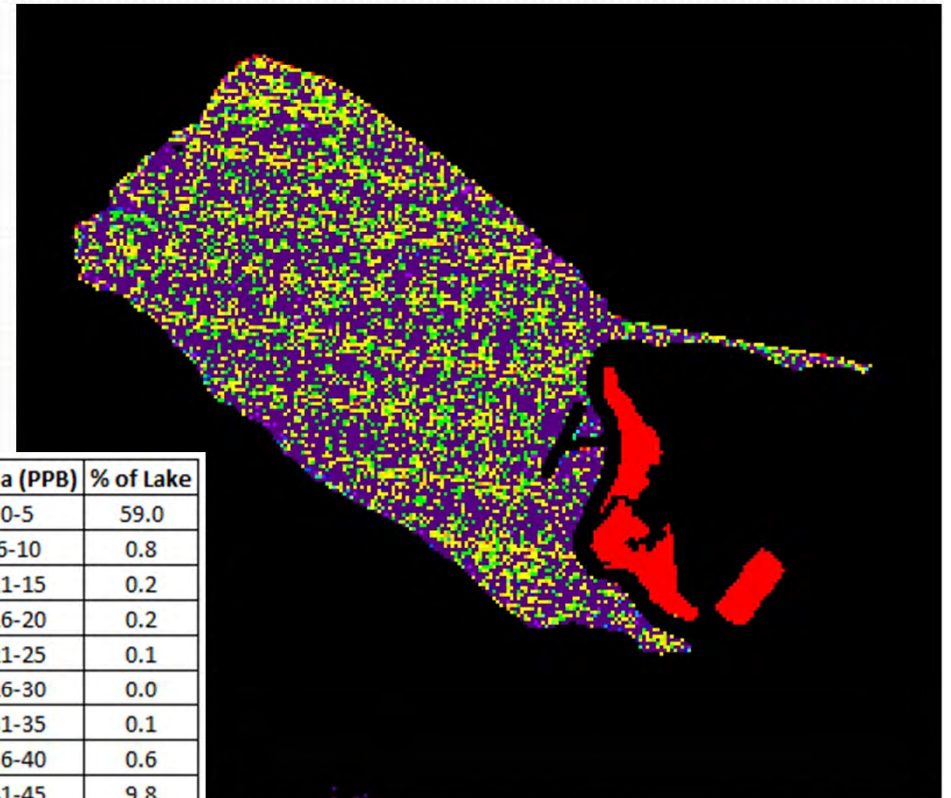
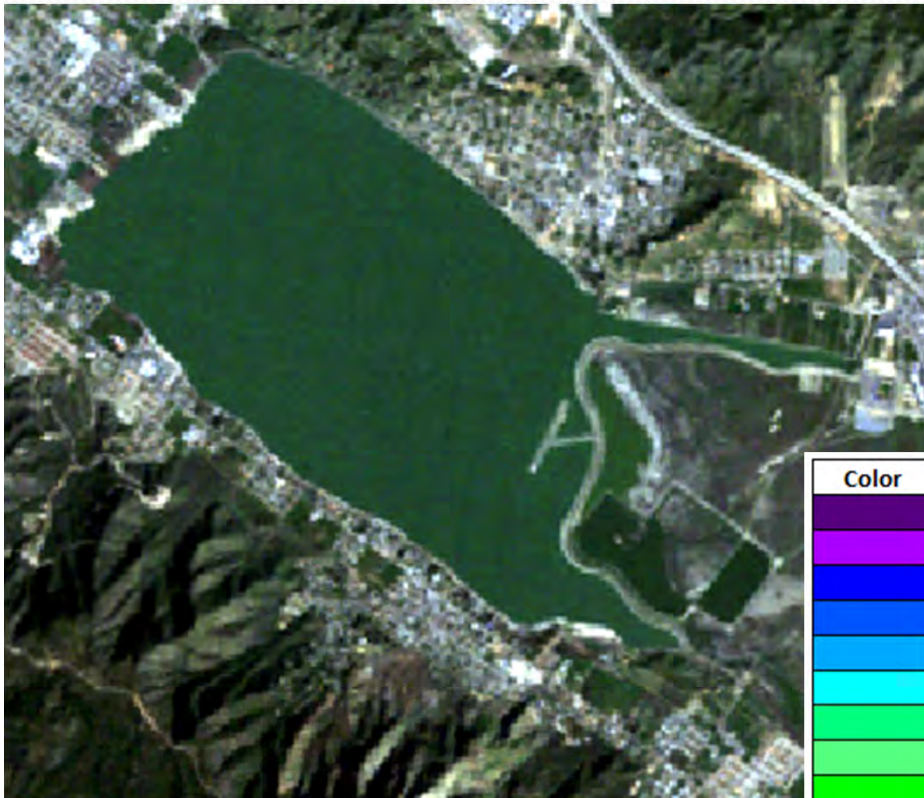
Data comparison Lake Elsinore Data (actual) vs .Blue Water Satellite Data (predicted)
Where Elsinore data was collected on Satellite Overpass Date



Conclusions

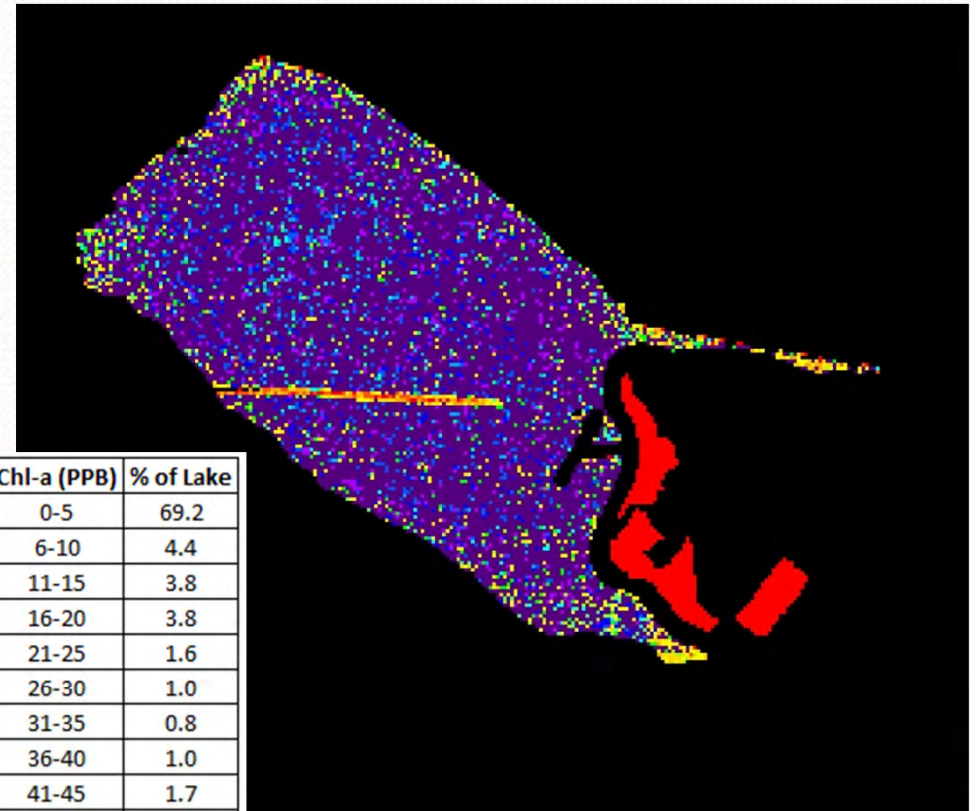
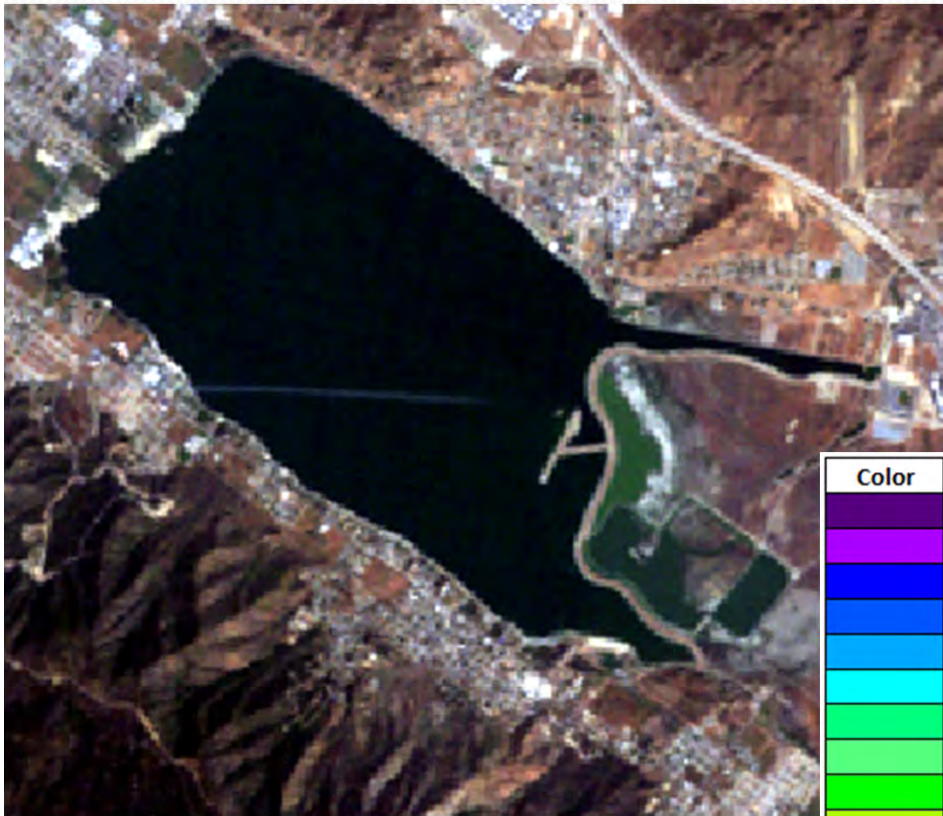
- Of the 27 data points collected on 11 LANDSAT overpass dates of Lake Elsinore, CA, 18 fall within the 95% confidence interval (the CI curves) and 26 fall within the 95% prediction interval (the PI curves).
- $R^2(\text{Adj.}) = 82.6\%$
- Experience with other models and data sets have shown that had we been able to restrict our data points to the same number of points collected within ± 0.5 hour of LANDSAT overpass, results would have substantially improved.
- A 1-mph hour drift rate moves a pixel 30 meters per minute, and a Chl *a* pattern 1,800 meters wide would pass its entire width by a given station in 1 hour.

Lake Elsinore 02/19/1997 Natural Color Image (Left) and Chl-a Scan (Right)



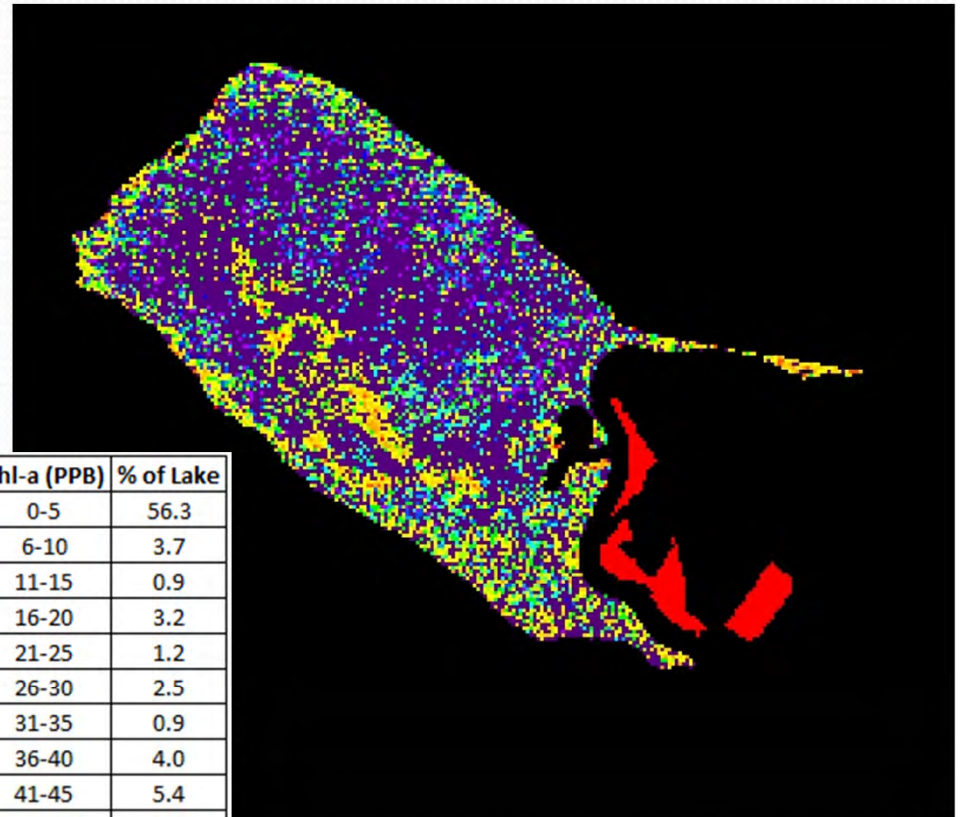
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	59.0
Light Purple	6-10	0.8
Blue	11-15	0.2
Light Blue	16-20	0.2
Cyan	21-25	0.1
Light Cyan	26-30	0.0
Green	31-35	0.1
Light Green	36-40	0.6
Bright Green	41-45	9.8
Yellow-Green	46-50	7.0
Yellow	51-75	13.2
Orange	76-100	2.1
Light Orange	101-125	0.4
Red-Orange	126-150	0.1
Red	>150	6.3

Lake Elsinore 04/08/1997 Natural Color Image (Left) and Chl-a Scan (Right)



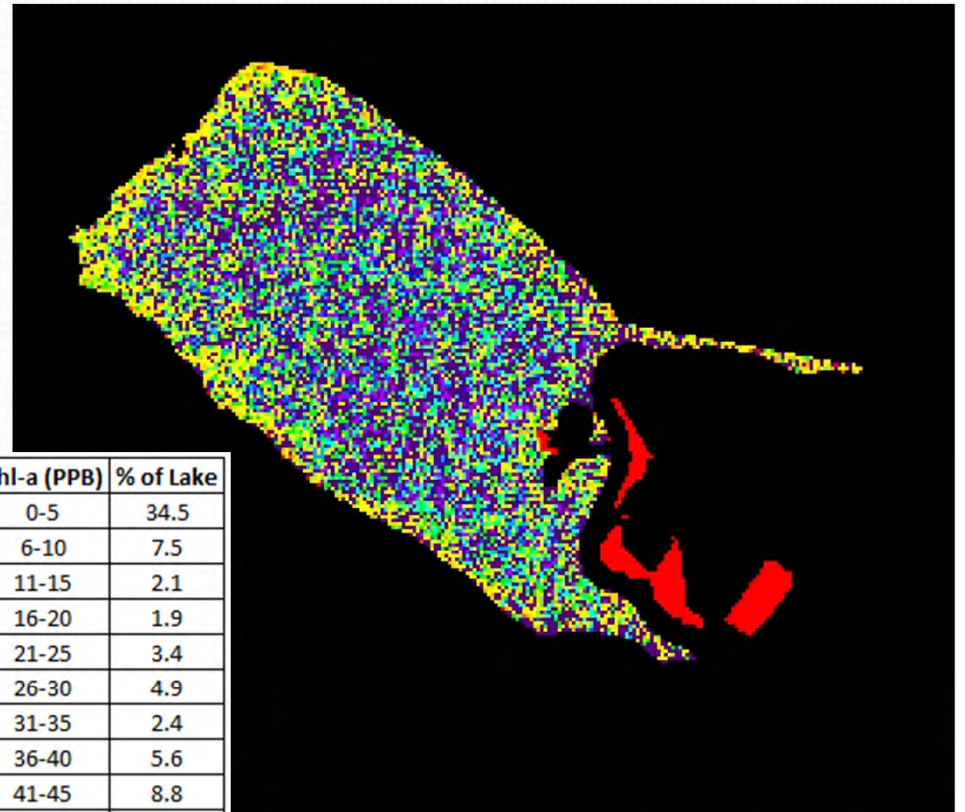
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	69.2
Purple	6-10	4.4
Blue-Black	11-15	3.8
Blue	16-20	3.8
Cyan	21-25	1.6
Light Cyan	26-30	1.0
Green	31-35	0.8
Light Green	36-40	1.0
Yellow-Green	41-45	1.7
Yellow	46-50	1.3
Orange-Yellow	51-75	3.3
Orange	76-100	1.2
Red-Orange	101-125	0.6
Red	126-150	0.3
Dark Red	>150	6.0

Lake Elsinore 06/27/1997 Natural Color Image (Left) and Chl-a Scan (Right)



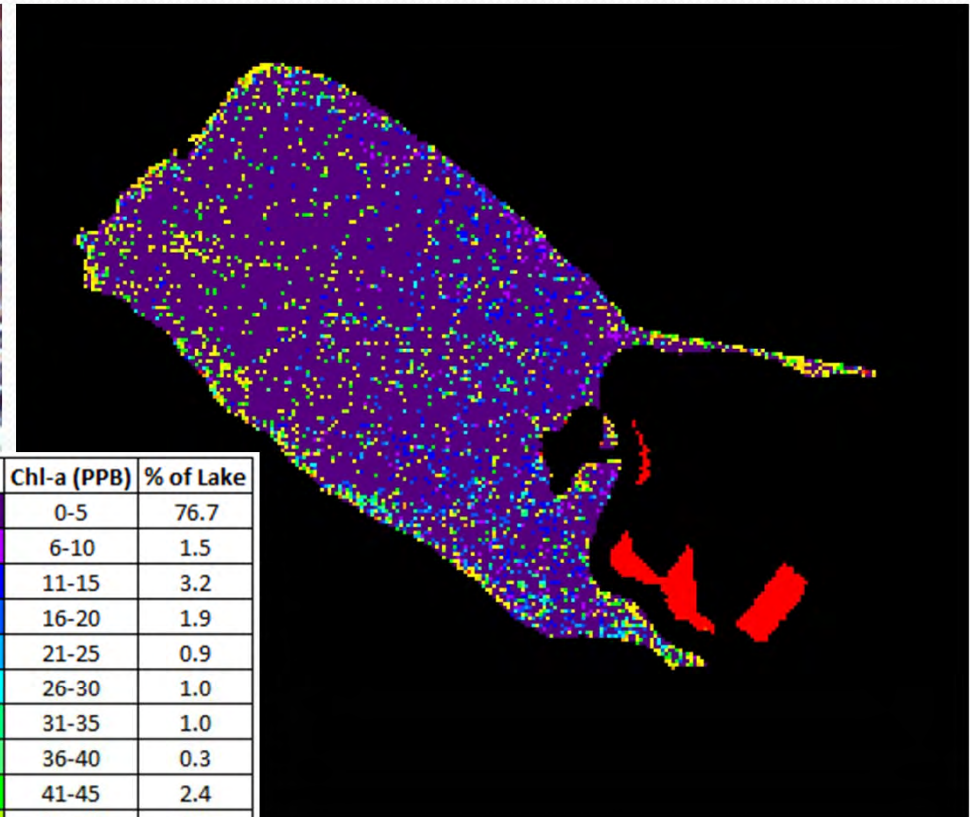
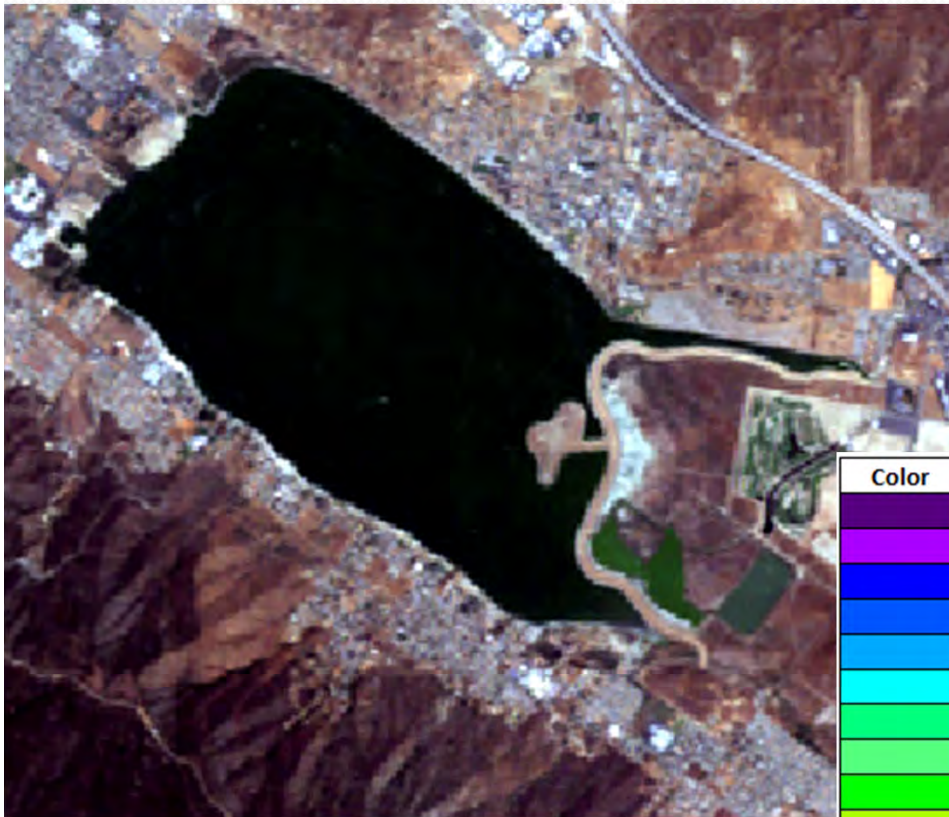
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	56.3
Light Purple	6-10	3.7
Blue	11-15	0.9
Light Blue	16-20	3.2
Cyan	21-25	1.2
Light Cyan	26-30	2.5
Green	31-35	0.9
Light Green	36-40	4.0
Bright Green	41-45	5.4
Yellow-Green	46-50	4.0
Yellow	51-75	9.7
Orange	76-100	2.8
Light Orange	101-125	0.8
Dark Orange	126-150	0.2
Red	>150	4.4

Lake Elsinore 07/13/1997 Natural Color Image (Left) and Chl-a Scan (Right)



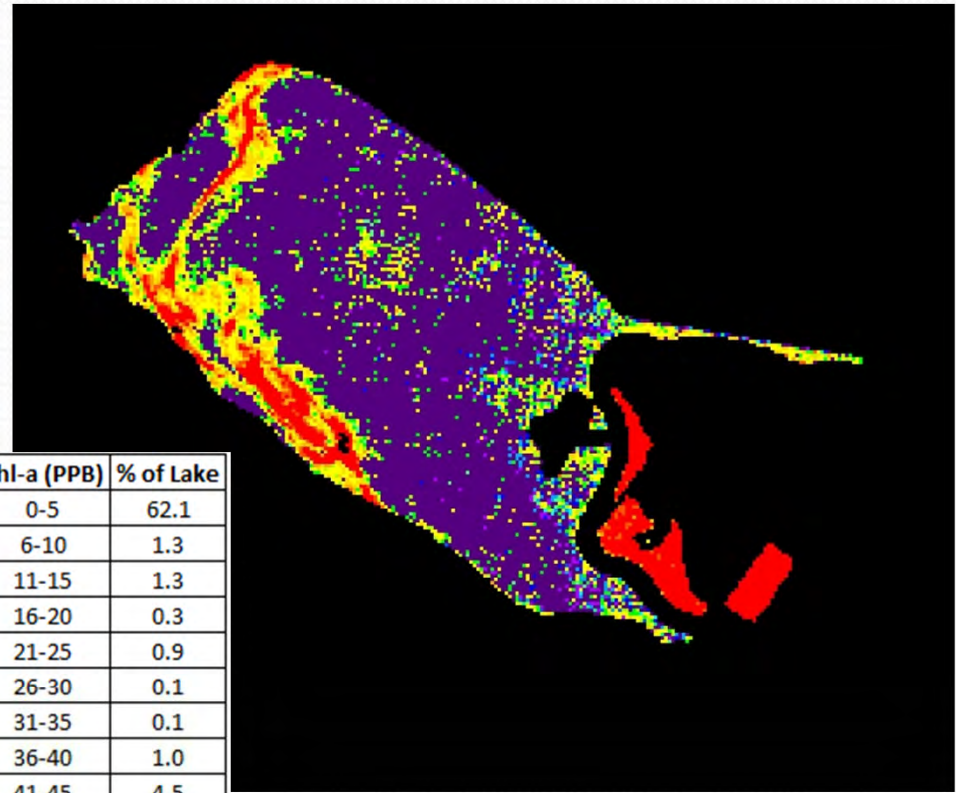
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	34.5
Light Purple	6-10	7.5
Blue	11-15	2.1
Light Blue	16-20	1.9
Cyan	21-25	3.4
Light Cyan	26-30	4.9
Green	31-35	2.4
Light Green	36-40	5.6
Bright Green	41-45	8.8
Yellow-Green	46-50	4.9
Yellow	51-75	15.3
Orange	76-100	3.8
Dark Orange	101-125	0.7
Red-Orange	126-150	0.1
Red	>150	4.2

Lake Elsinore 08/14/1997 Natural Color Image (Left) and Chl-a Scan (Right)



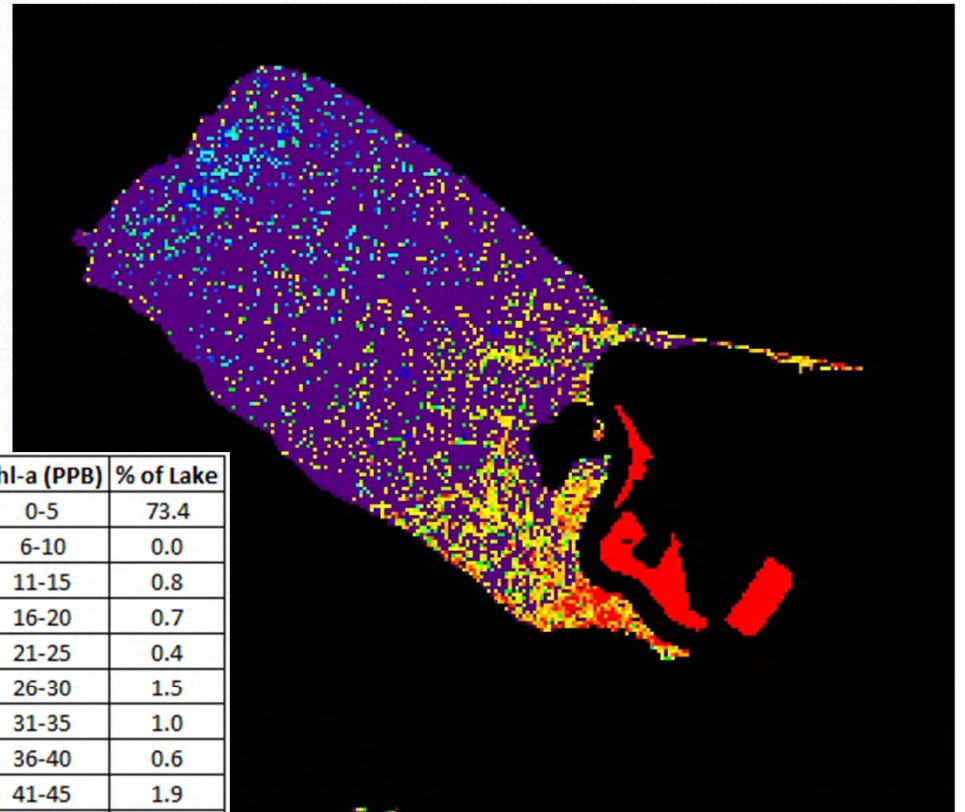
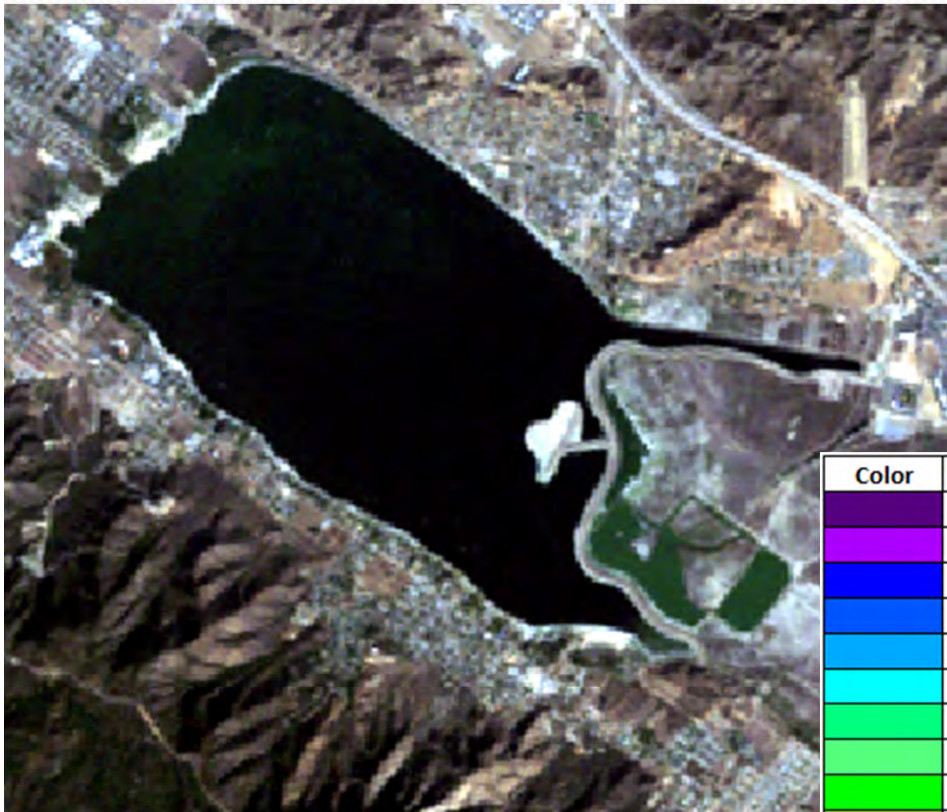
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	76.7
Light Purple	6-10	1.5
Blue	11-15	3.2
Light Blue	16-20	1.9
Cyan	21-25	0.9
Light Cyan	26-30	1.0
Green	31-35	1.0
Light Green	36-40	0.3
Bright Green	41-45	2.4
Yellow-Green	46-50	2.2
Yellow	51-75	4.1
Orange	76-100	1.0
Light Orange	101-125	0.2
Dark Orange	126-150	0.1
Red	>150	3.5

Lake Elsinore 10/01/1997 Natural Color Image (Left) and Chl-a Scan (Right)



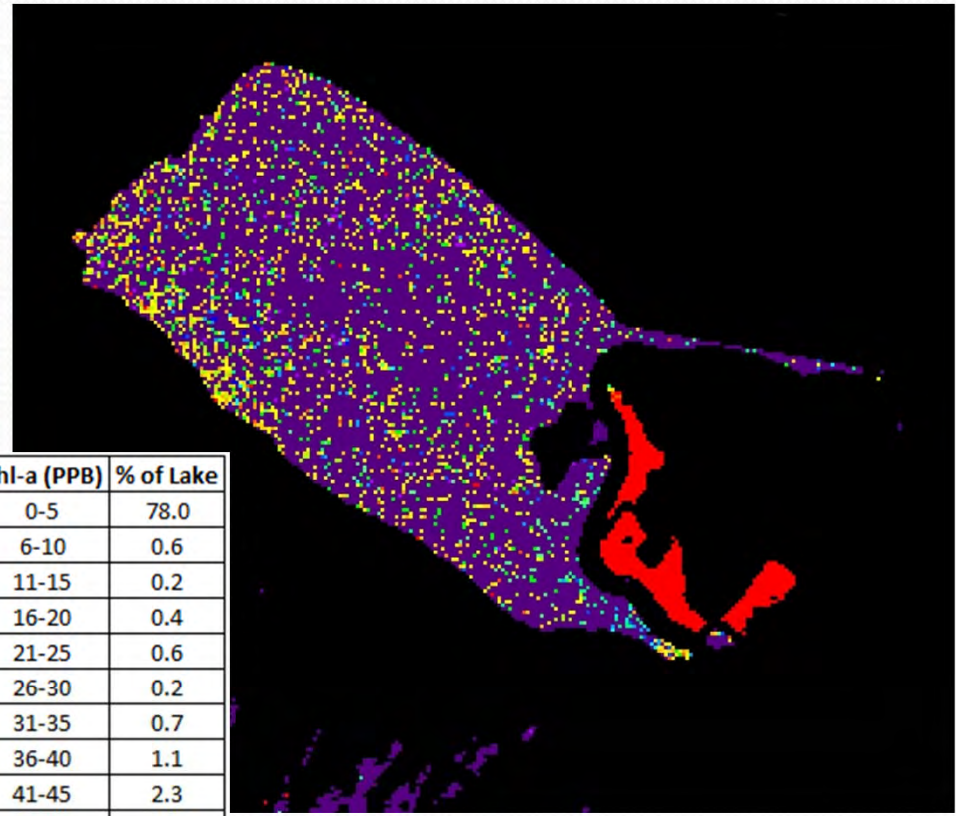
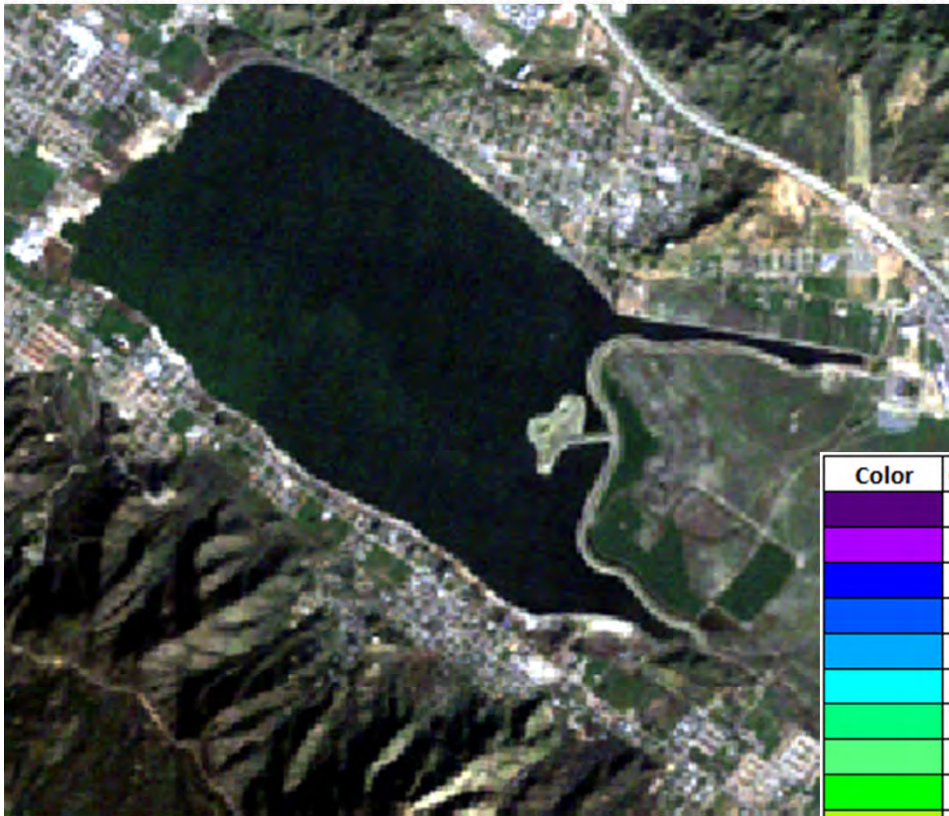
Color	Chl-a (PPB)	% of Lake
Purple	0-5	62.1
Dark Purple	6-10	1.3
Blue	11-15	1.3
Light Blue	16-20	0.3
Cyan	21-25	0.9
Light Cyan	26-30	0.1
Green	31-35	0.1
Light Green	36-40	1.0
Yellow-Green	41-45	4.5
Yellow	46-50	3.4
Light Yellow	51-75	9.5
Orange	76-100	3.4
Dark Orange	101-125	2.0
Red-Orange	126-150	1.4
Red	>150	8.7

Lake Elsinore 11/01/1997 Natural Color Image (Left) and Chl-a Scan (Right)



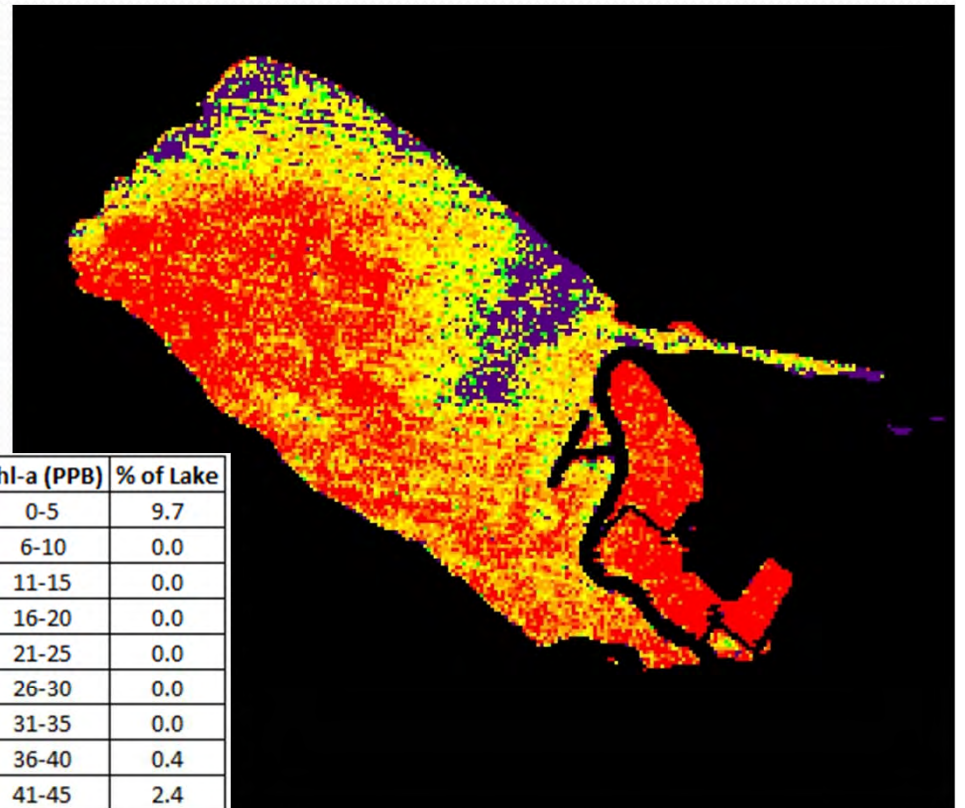
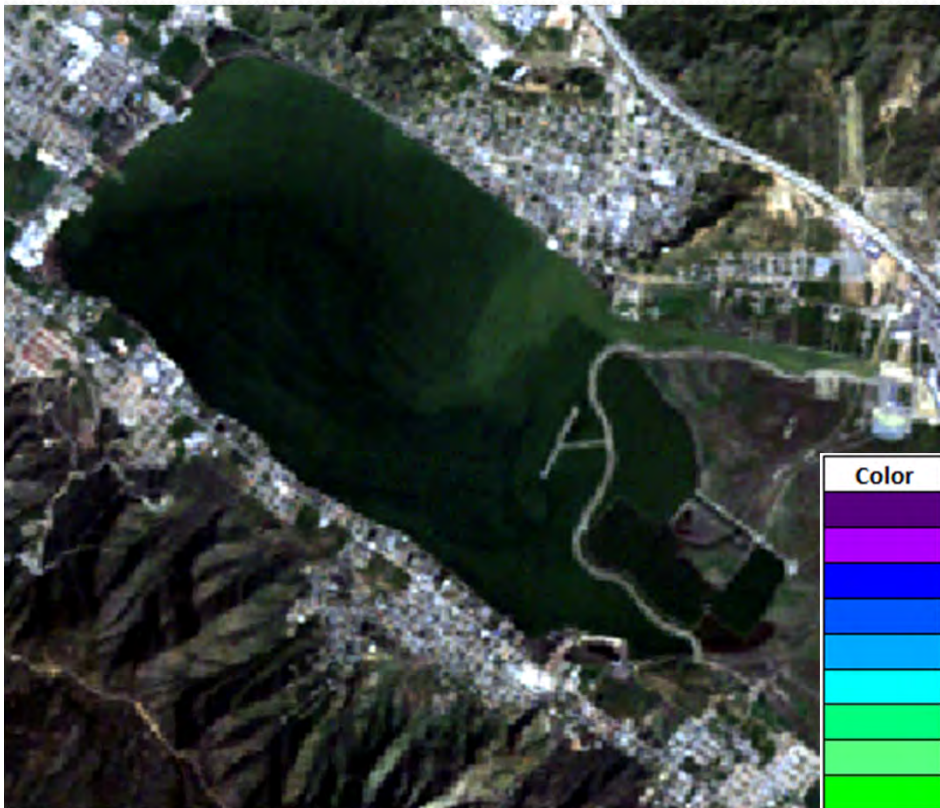
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	73.4
Light Purple	6-10	0.0
Blue-Black	11-15	0.8
Blue	16-20	0.7
Cyan	21-25	0.4
Light Cyan	26-30	1.5
Green	31-35	1.0
Light Green	36-40	0.6
Bright Green	41-45	1.9
Yellow-Green	46-50	2.0
Yellow	51-75	5.9
Orange	76-100	2.9
Light Orange	101-125	1.7
Red-Orange	126-150	1.0
Red	>150	6.1

Lake Elsinore 01/21/1998 Natural Color Image (Left) and Chl-a Scan (Right)



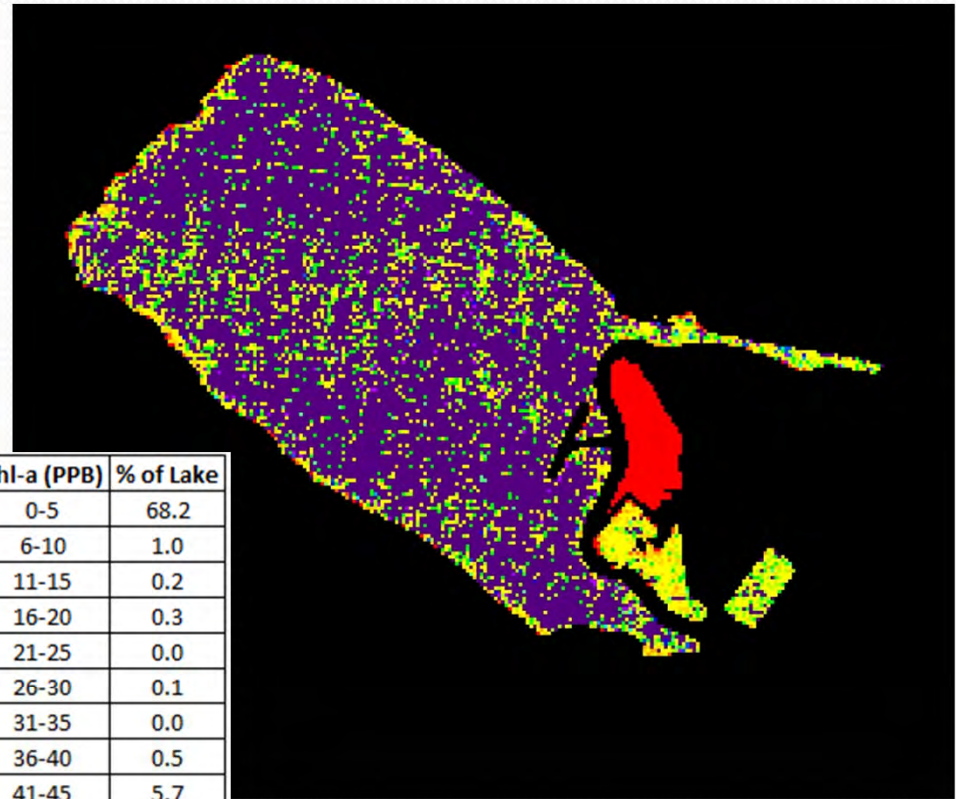
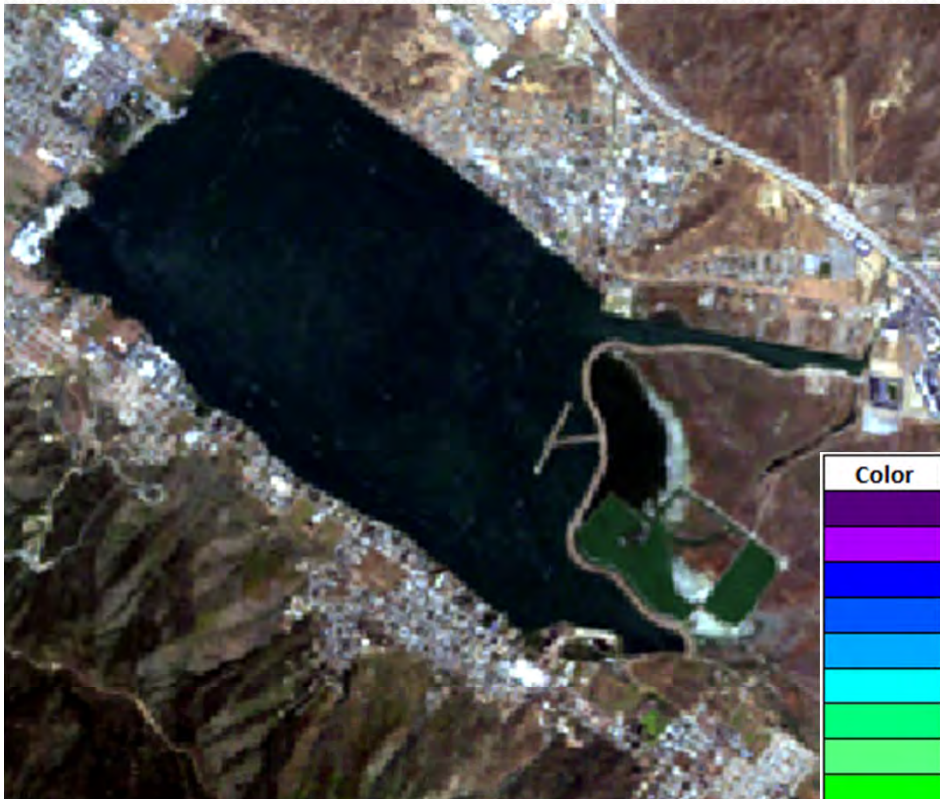
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	78.0
Light Purple	6-10	0.6
Blue	11-15	0.2
Light Blue	16-20	0.4
Cyan	21-25	0.6
Light Cyan	26-30	0.2
Green	31-35	0.7
Light Green	36-40	1.1
Yellow-Green	41-45	2.3
Yellow	46-50	1.5
Light Yellow	51-75	6.2
Orange	76-100	2.1
Light Orange	101-125	0.9
Red-Orange	126-150	0.4
Red	>150	4.9

Lake Elsinore 03/10/1998 Natural Color Image (Left) and Chl-a Scan (Right)



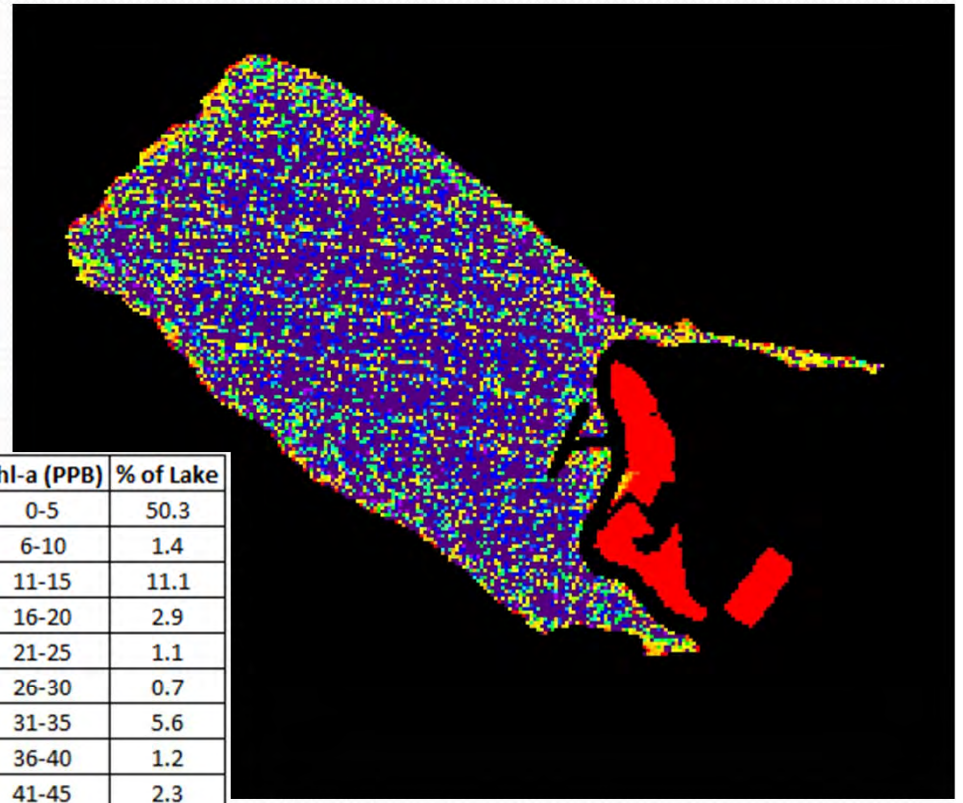
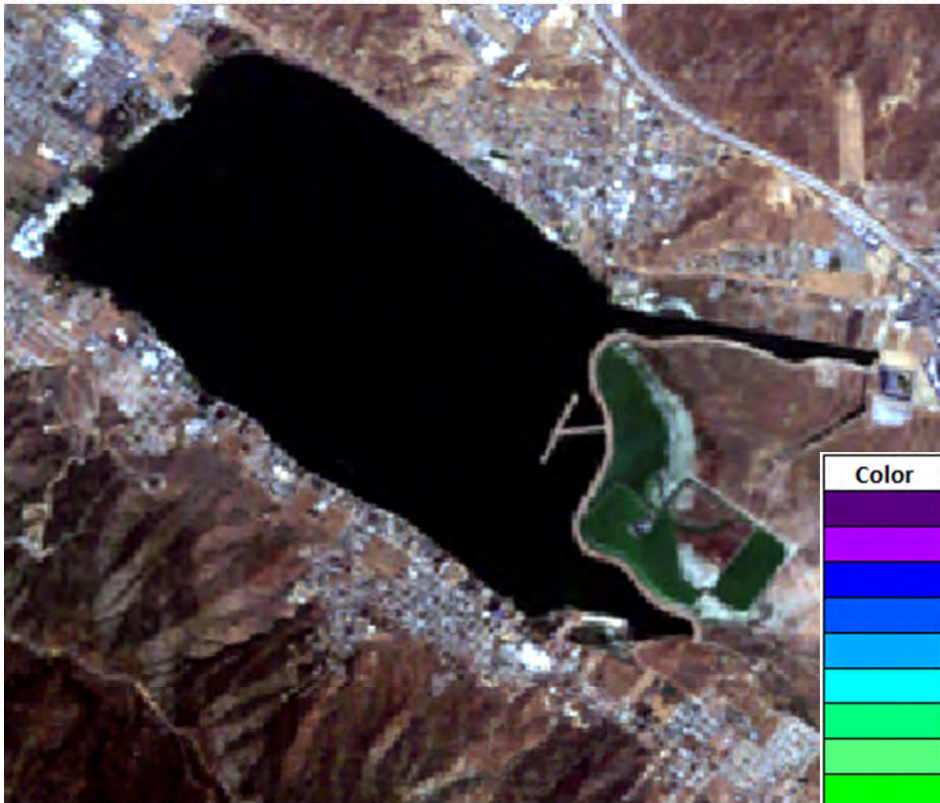
Color	Chl-a (PPB)	% of Lake
Purple	0-5	9.7
Blue	6-10	0.0
Light Blue	11-15	0.0
Blue	16-20	0.0
Cyan	21-25	0.0
Cyan	26-30	0.0
Green	31-35	0.0
Light Green	36-40	0.4
Light Green	41-45	2.4
Yellow-Green	46-50	2.3
Yellow	51-75	14.1
Yellow	76-100	14.2
Orange	101-125	14.1
Orange	126-150	12.5
Red	>150	30.2

Lake Elsinore 06/14/1998 Natural Color Image (Left) and Chl-a Scan (Right)



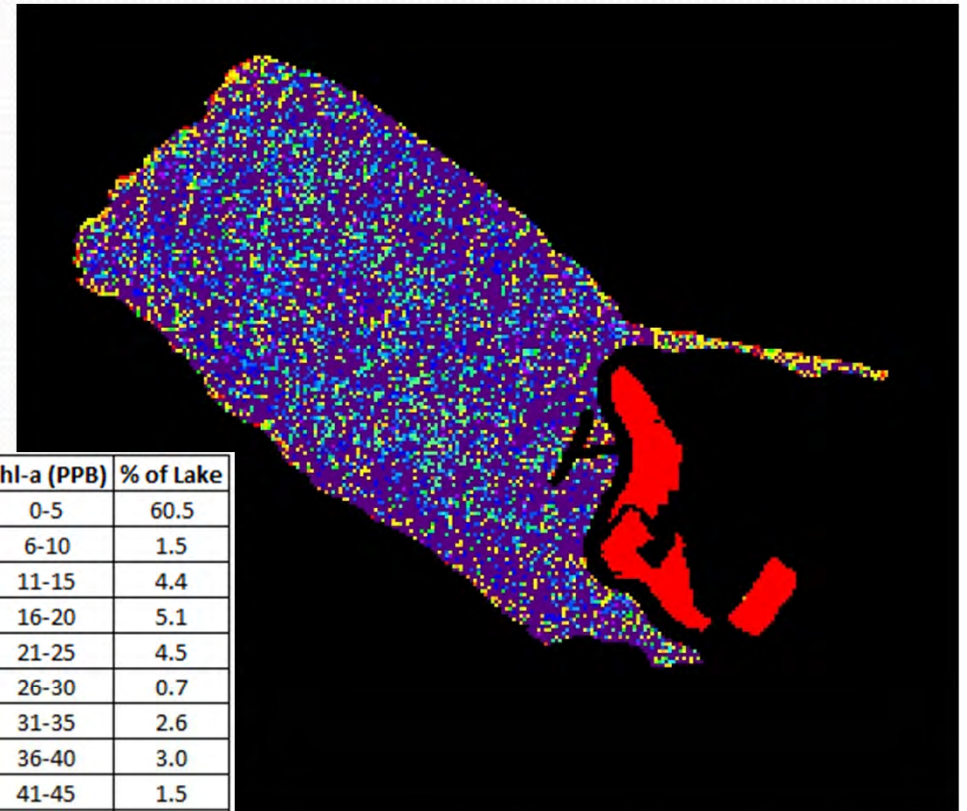
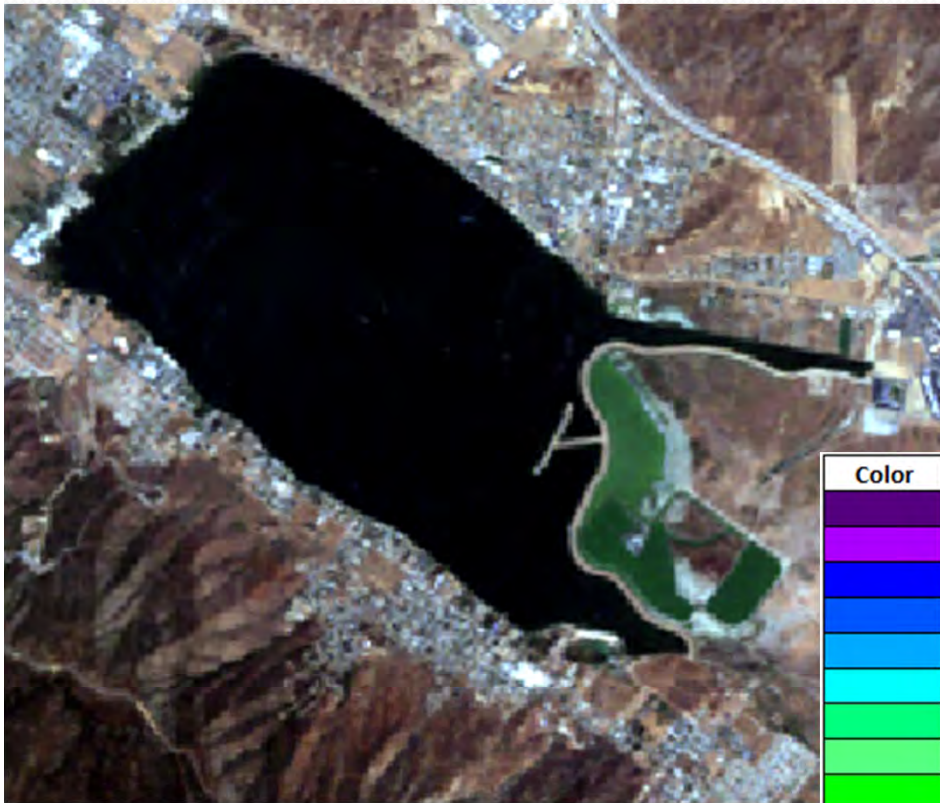
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	68.2
Light Purple	6-10	1.0
Blue	11-15	0.2
Light Blue	16-20	0.3
Cyan	21-25	0.0
Light Cyan	26-30	0.1
Green	31-35	0.0
Light Green	36-40	0.5
Yellow-Green	41-45	5.7
Yellow	46-50	5.7
Light Yellow	51-75	11.6
Orange	76-100	2.3
Dark Orange	101-125	0.4
Red-Orange	126-150	0.2
Red	>150	3.9

Lake Elsinore 07/16/1998 Natural Color Image (Left) and Chl-a Scan (Right)



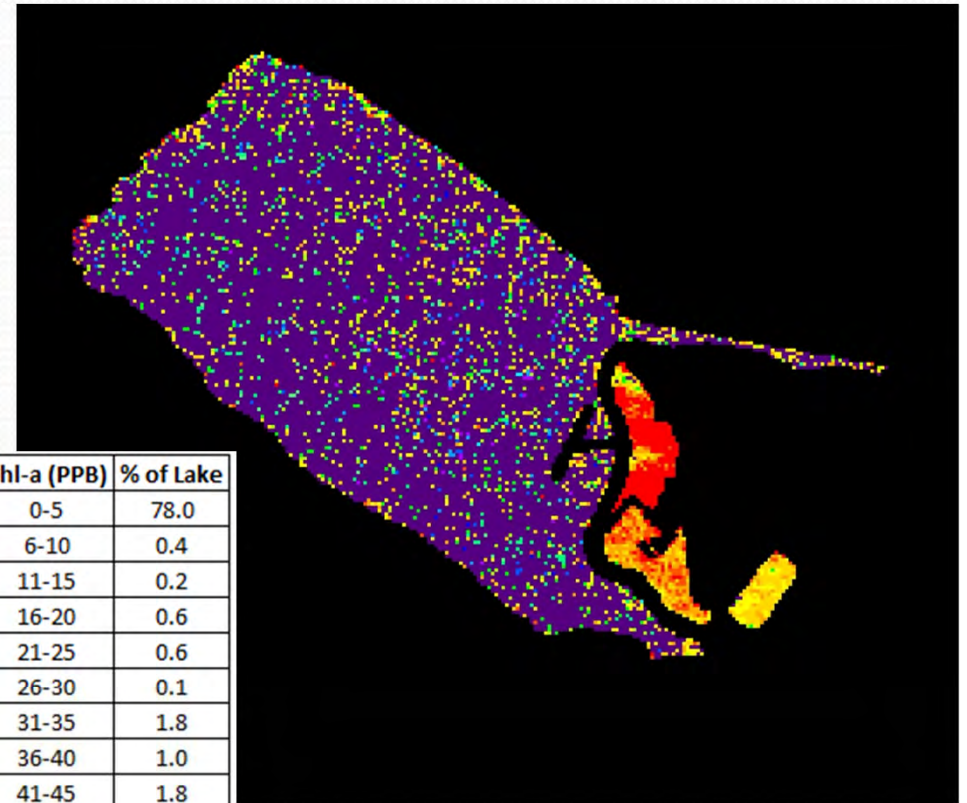
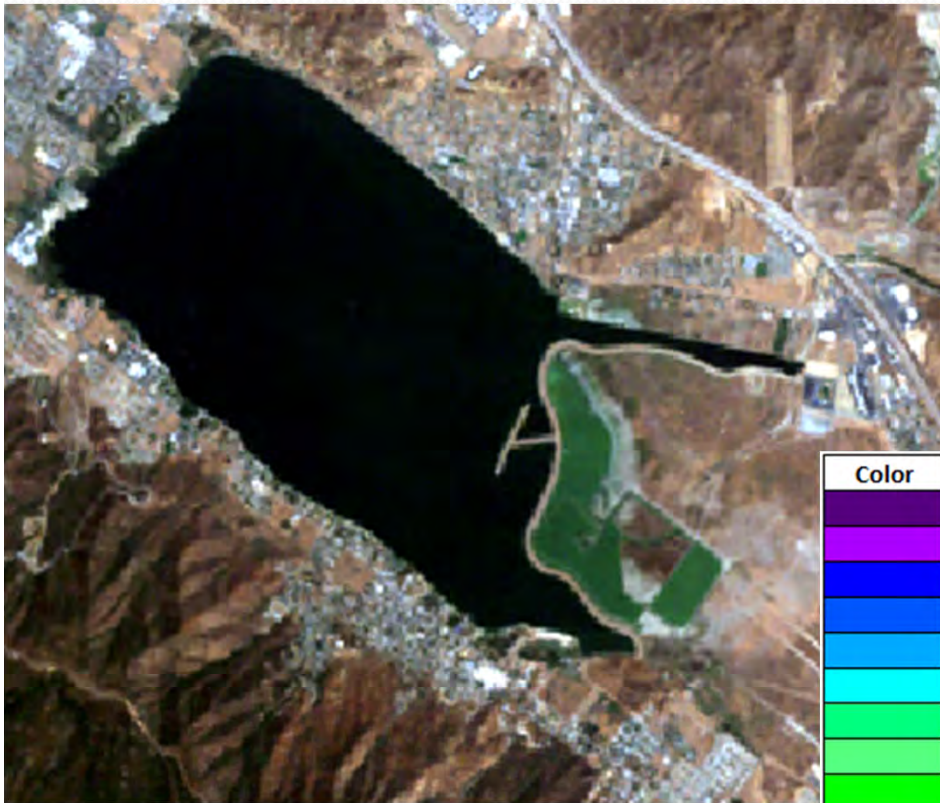
Color	Chl-a (PPB)	% of Lake
Purple	0-5	50.3
Dark Purple	6-10	1.4
Blue	11-15	11.1
Light Blue	16-20	2.9
Cyan	21-25	1.1
Light Cyan	26-30	0.7
Green	31-35	5.6
Light Green	36-40	1.2
Bright Green	41-45	2.3
Yellow-Green	46-50	2.8
Yellow	51-75	8.7
Orange	76-100	2.8
Light Orange	101-125	1.2
Dark Orange	126-150	0.5
Red	>150	7.4

Lake Elsinore 08/01/1998 Natural Color Image (Left) and Chl-a Scan (Right)



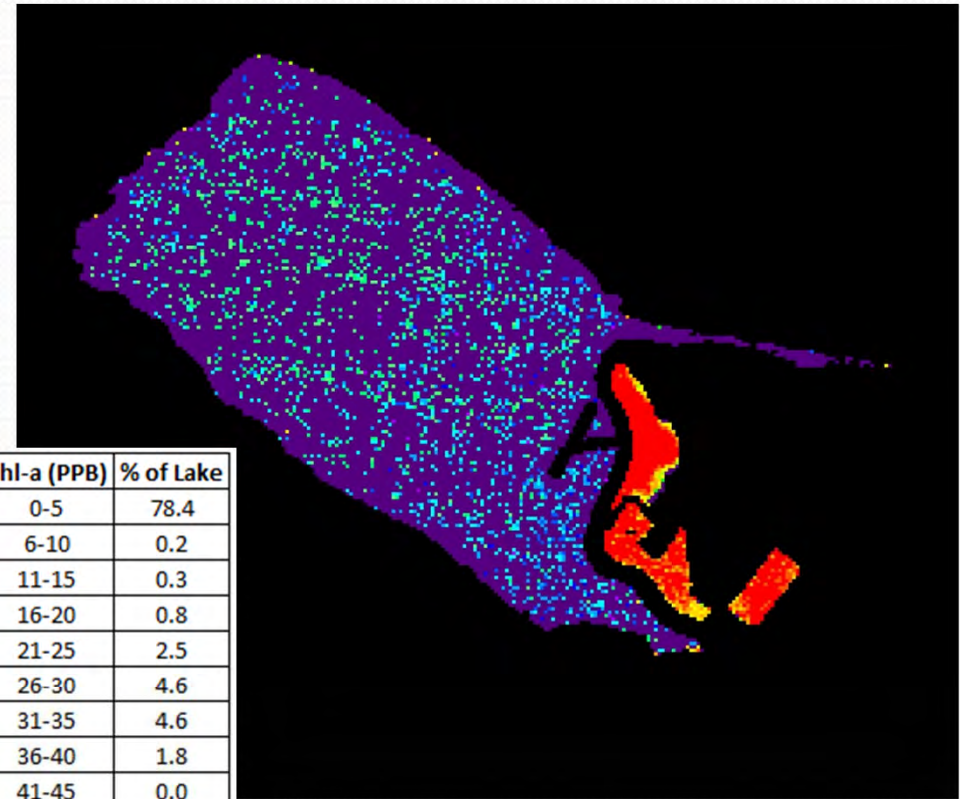
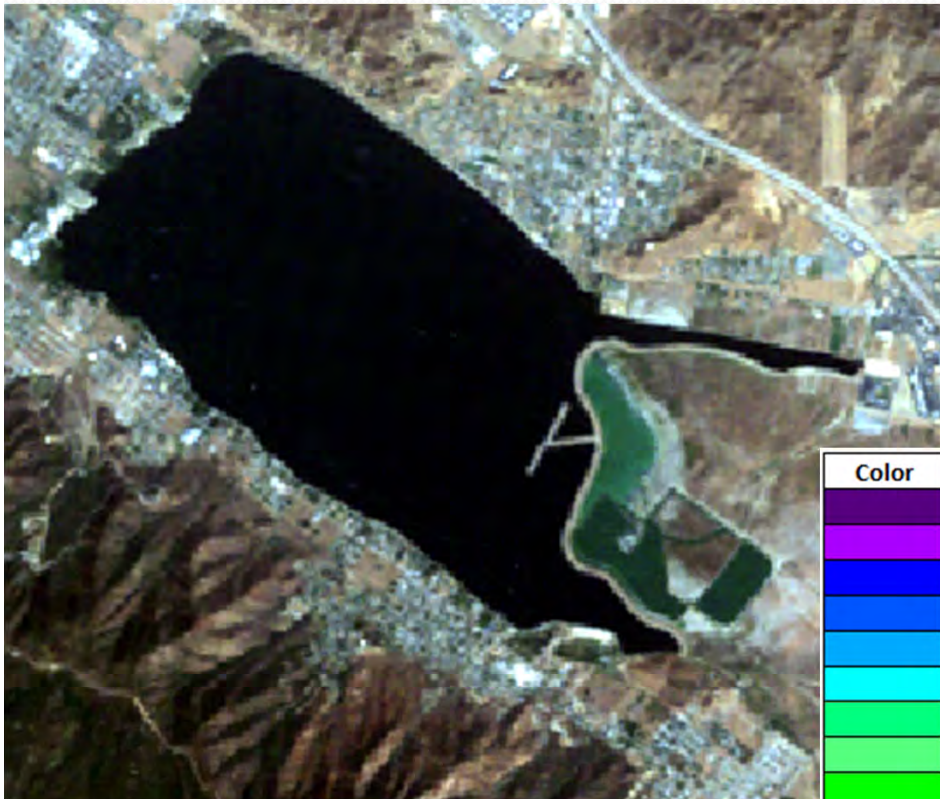
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	60.5
Light Purple	6-10	1.5
Blue	11-15	4.4
Light Blue	16-20	5.1
Cyan	21-25	4.5
Light Cyan	26-30	0.7
Green	31-35	2.6
Light Green	36-40	3.0
Bright Green	41-45	1.5
Yellow-Green	46-50	1.5
Yellow	51-75	5.0
Orange-Yellow	76-100	1.6
Orange	101-125	0.6
Red-Orange	126-150	0.3
Red	>150	7.3

Lake Elsinore 09/02/1998 Natural Color Image (Left) and Chl-a Scan (Right)



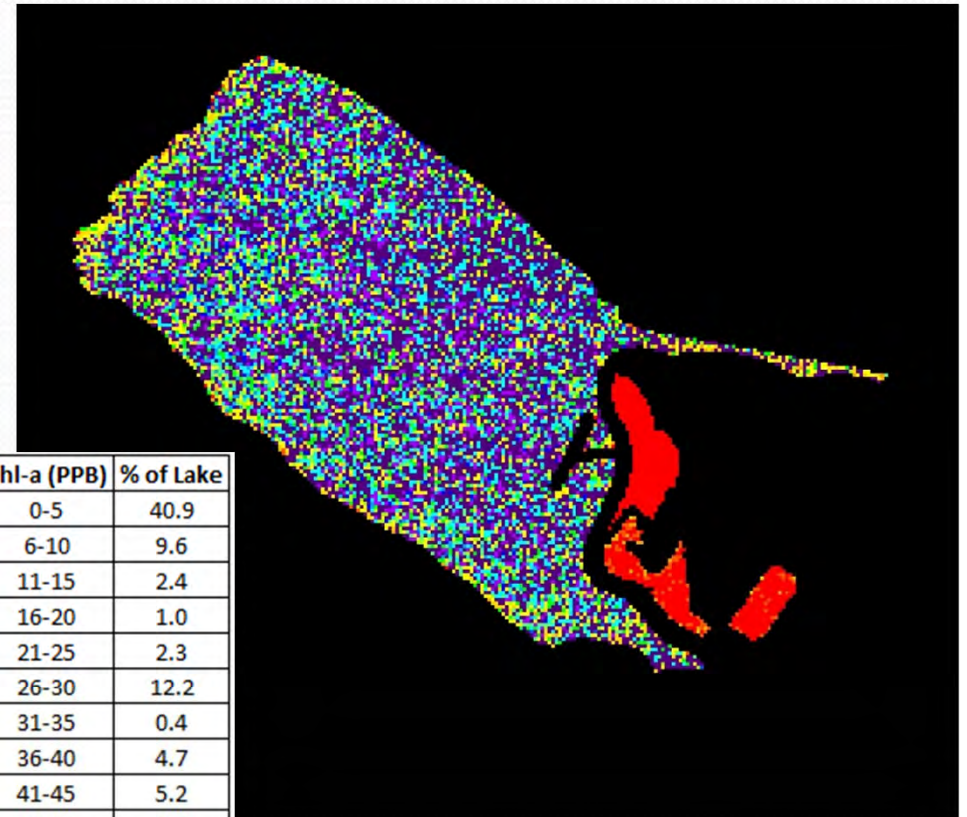
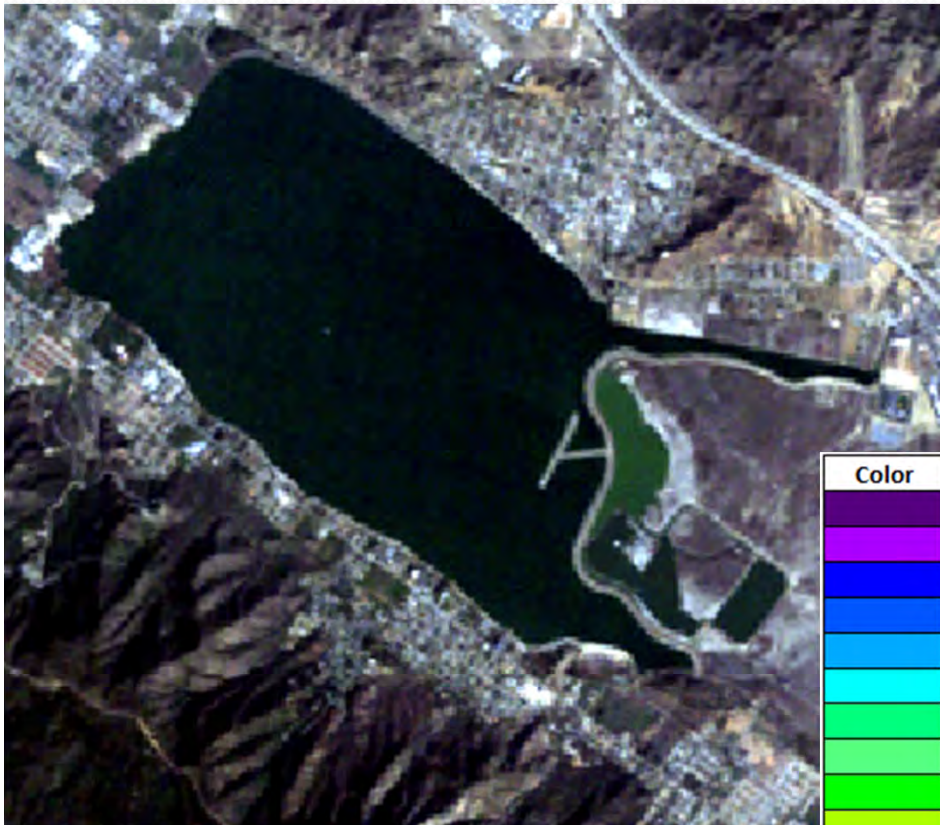
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	78.0
Light Purple	6-10	0.4
Blue	11-15	0.2
Light Blue	16-20	0.6
Cyan	21-25	0.6
Light Cyan	26-30	0.1
Green	31-35	1.8
Light Green	36-40	1.0
Bright Green	41-45	1.8
Yellow-Green	46-50	2.0
Yellow	51-75	4.7
Orange-Yellow	76-100	3.2
Orange	101-125	2.0
Red-Orange	126-150	1.3
Red	>150	2.5

Lake Elsinore 10/04/1998 Natural Color Image (Left) and Chl-a Scan (Right)



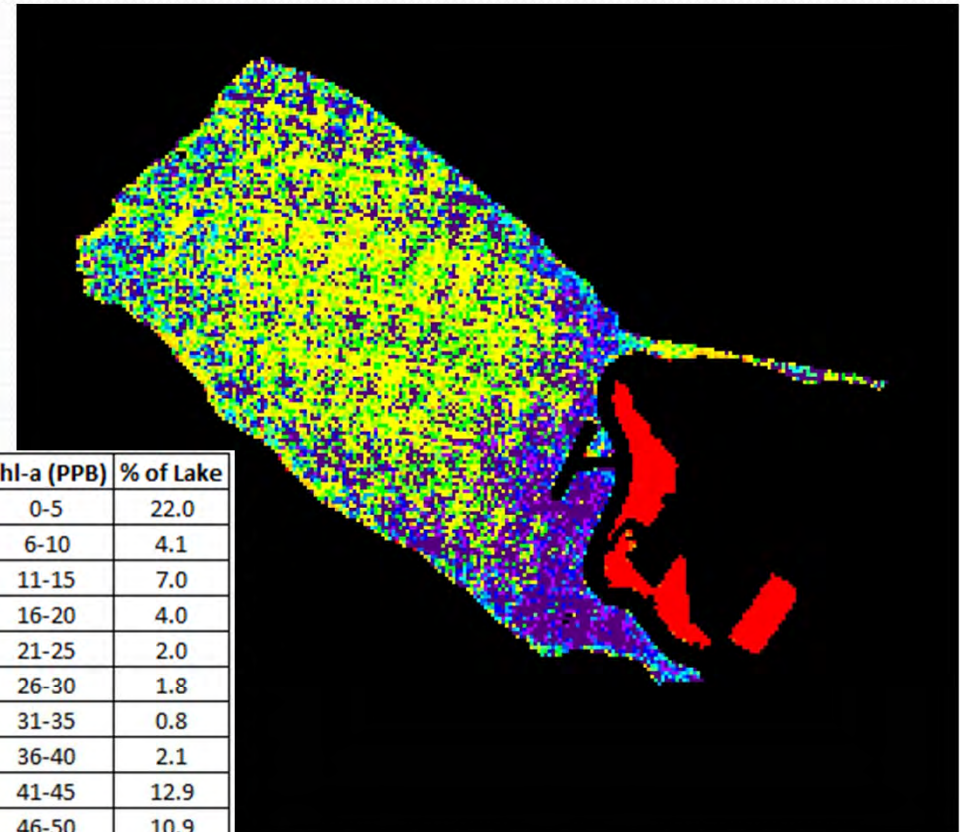
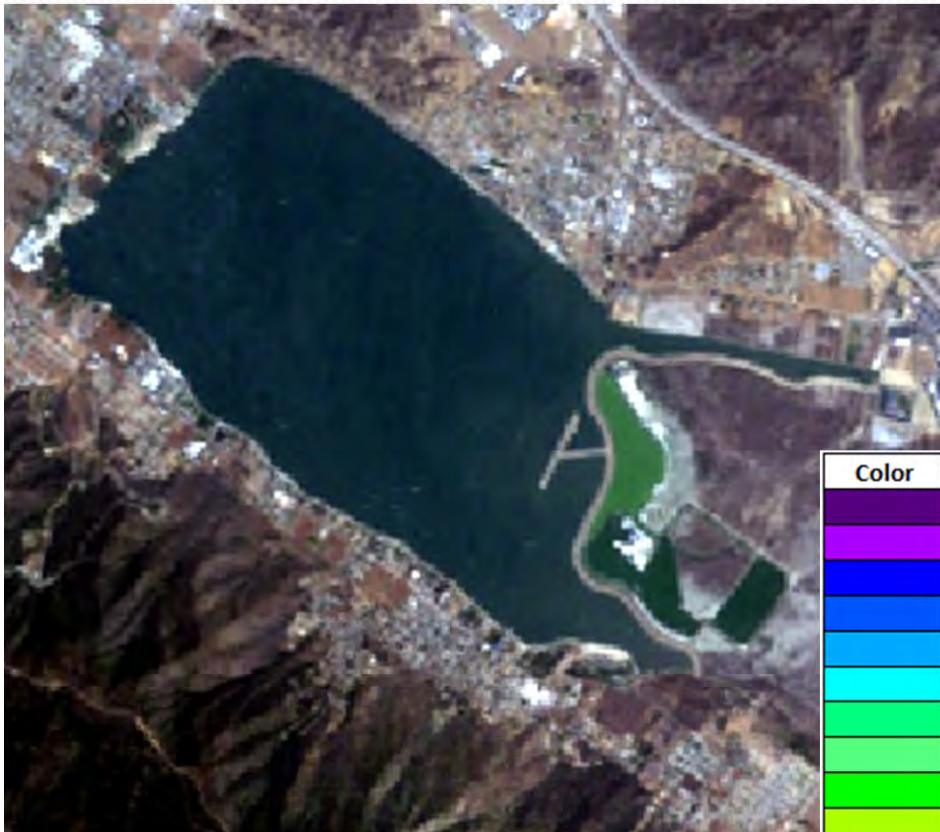
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	78.4
Purple	6-10	0.2
Blue-Purple	11-15	0.3
Blue	16-20	0.8
Cyan-Blue	21-25	2.5
Cyan	26-30	4.6
Green-Cyan	31-35	4.6
Green	36-40	1.8
Bright Green	41-45	0.0
Yellow-Green	46-50	0.1
Yellow	51-75	0.2
Orange-Yellow	76-100	0.3
Orange	101-125	0.4
Red-Orange	126-150	1.2
Red	>150	4.4

Lake Elsinore 02/25/1999 Natural Color Image (Left) and Chl-a Scan (Right)



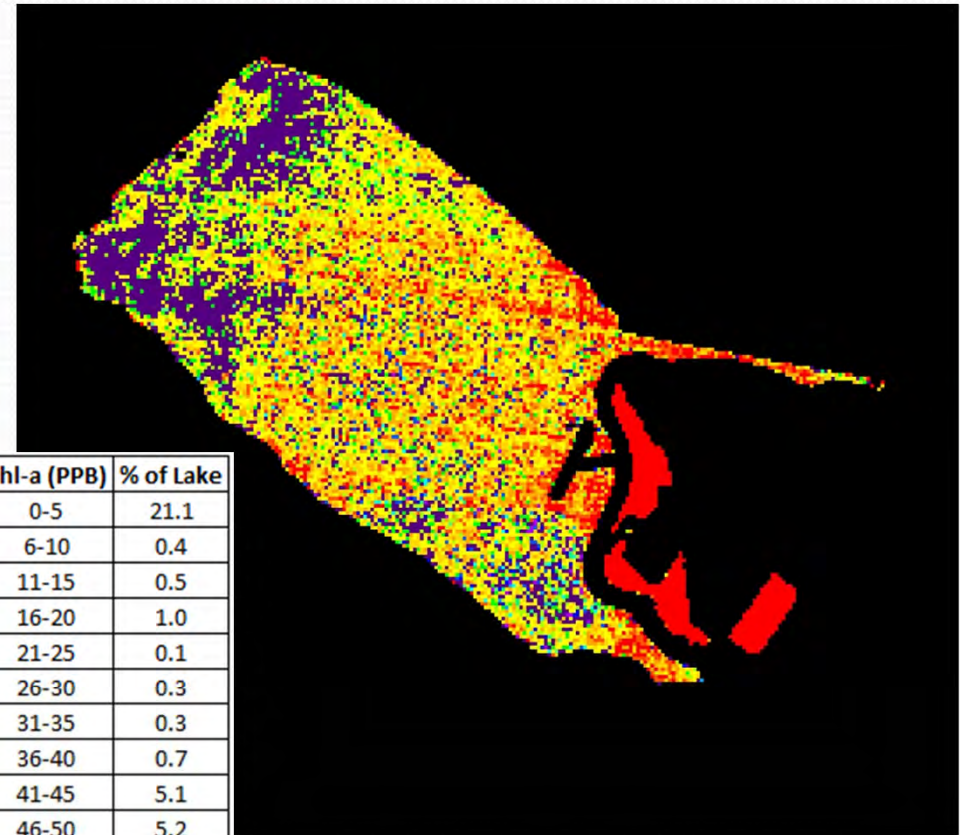
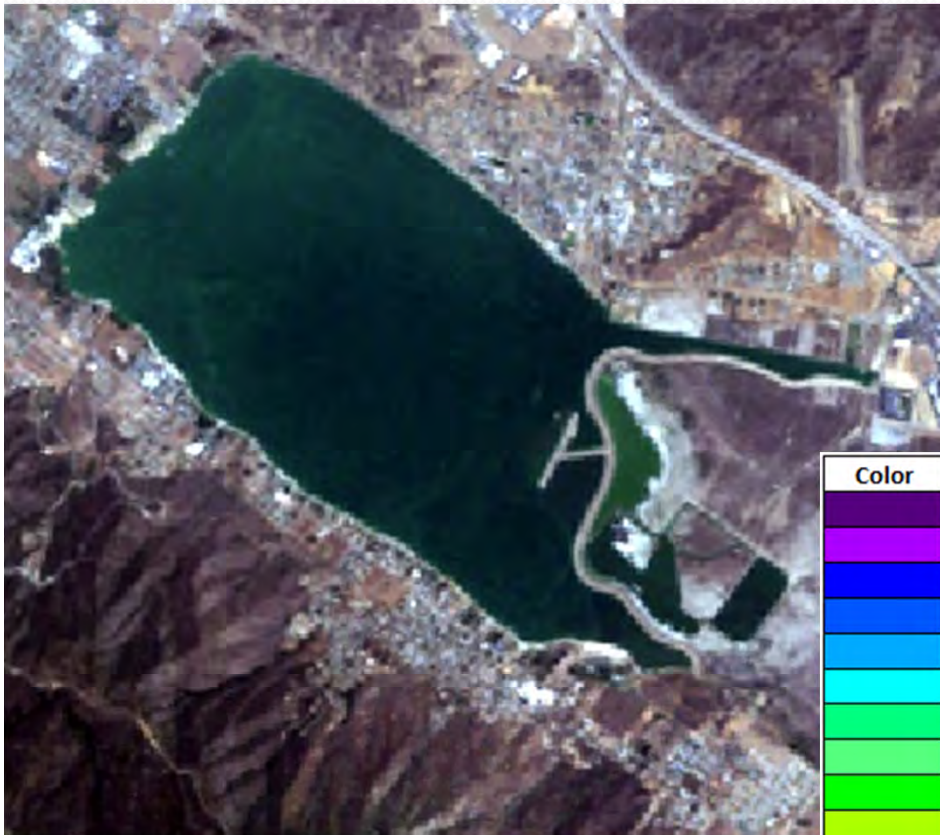
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	40.9
Light Purple	6-10	9.6
Blue	11-15	2.4
Light Blue	16-20	1.0
Cyan	21-25	2.3
Light Cyan	26-30	12.2
Green	31-35	0.4
Light Green	36-40	4.7
Bright Green	41-45	5.2
Yellow-Green	46-50	3.7
Yellow	51-75	9.0
Orange	76-100	1.9
Light Orange	101-125	0.6
Red-Orange	126-150	0.7
Red	>150	5.5

Lake Elsinore 05/16/1999 Natural Color Image (Left) and Chl-a Scan (Right)



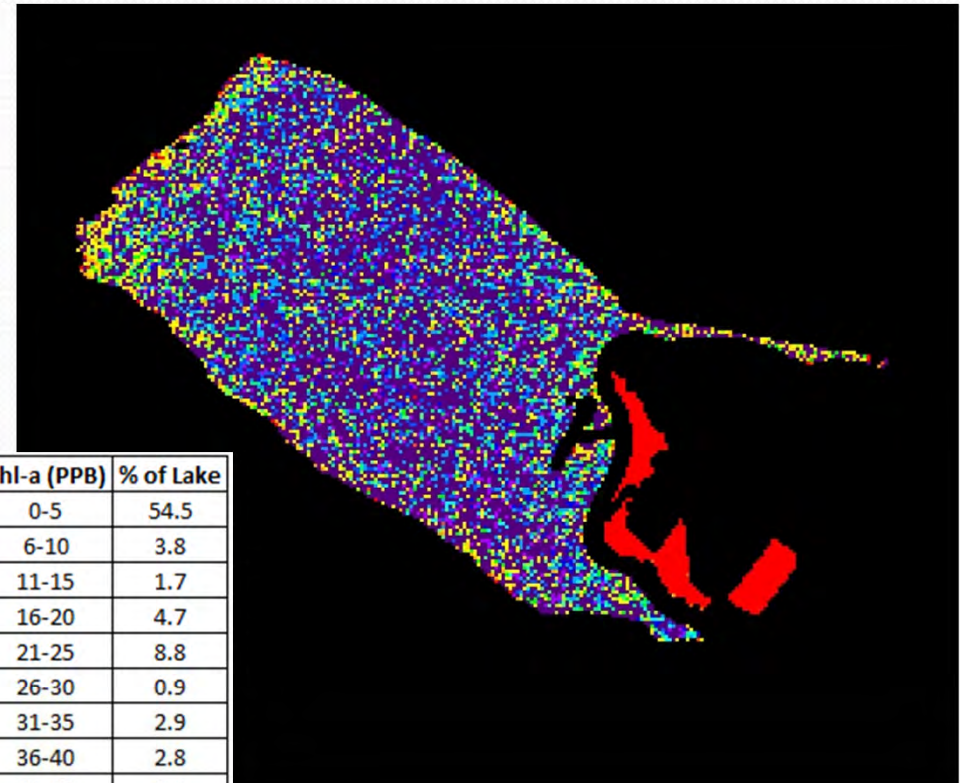
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	22.0
Purple	6-10	4.1
Blue	11-15	7.0
Light Blue	16-20	4.0
Cyan	21-25	2.0
Light Green	26-30	1.8
Green	31-35	0.8
Light Green	36-40	2.1
Bright Green	41-45	12.9
Yellow-Green	46-50	10.9
Yellow	51-75	23.7
Orange	76-100	2.7
Light Orange	101-125	0.3
Red-Orange	126-150	0.1
Red	>150	5.7

Lake Elsinore 06/17/1999 Natural Color Image (Left) and Chl-a Scan (Right)



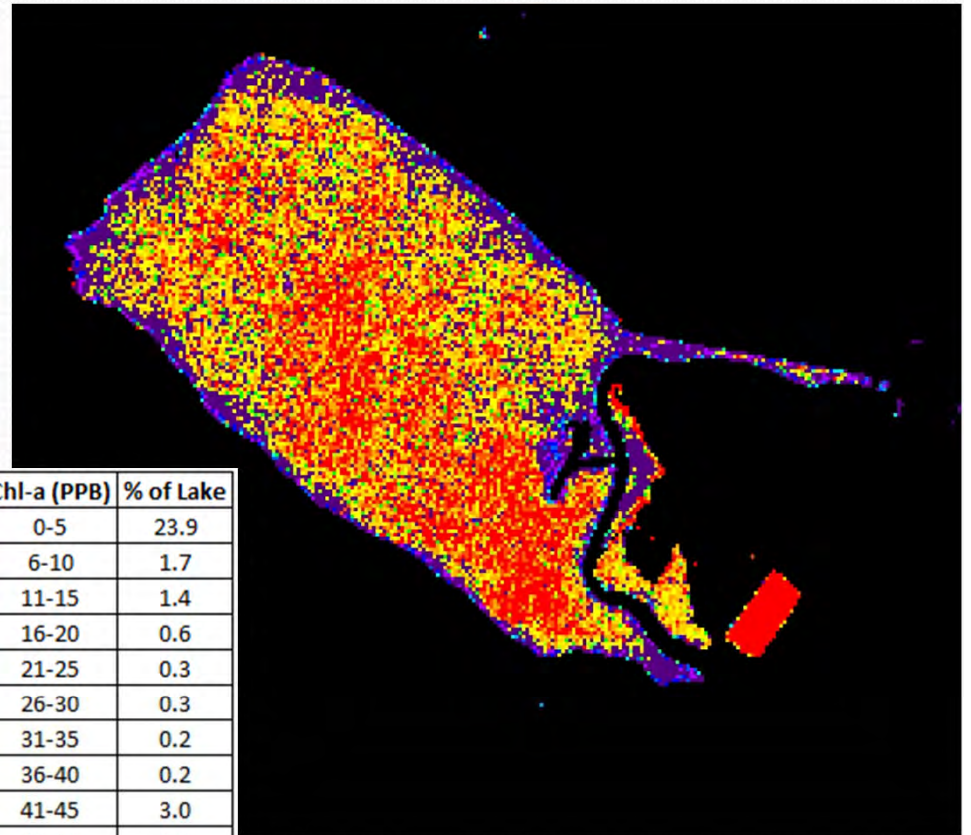
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	21.1
Purple	6-10	0.4
Blue-Purple	11-15	0.5
Blue	16-20	1.0
Light Blue	21-25	0.1
Cyan	26-30	0.3
Green-Cyan	31-35	0.3
Green	36-40	0.7
Light Green	41-45	5.1
Yellow-Green	46-50	5.2
Yellow	51-75	23.4
Orange-Yellow	76-100	15.6
Orange	101-125	9.9
Red-Orange	126-150	5.6
Red	>150	10.8

Lake Elsinore 07/19/1999 Natural Color Image (Left) and Chl-a Scan (Right)



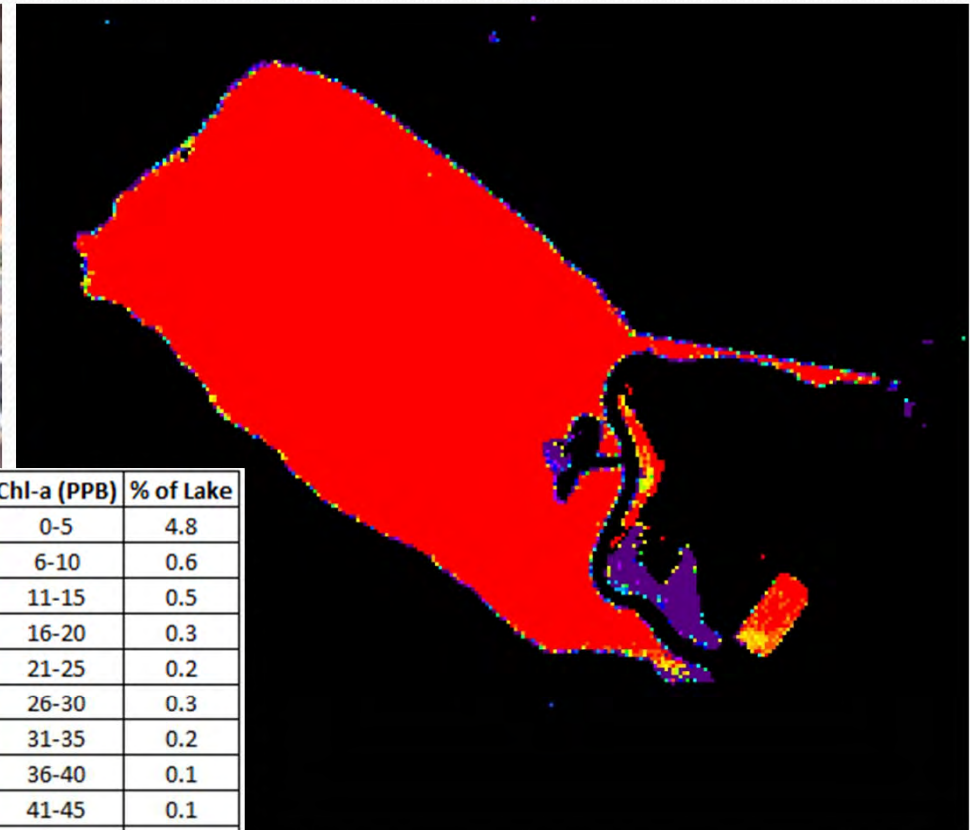
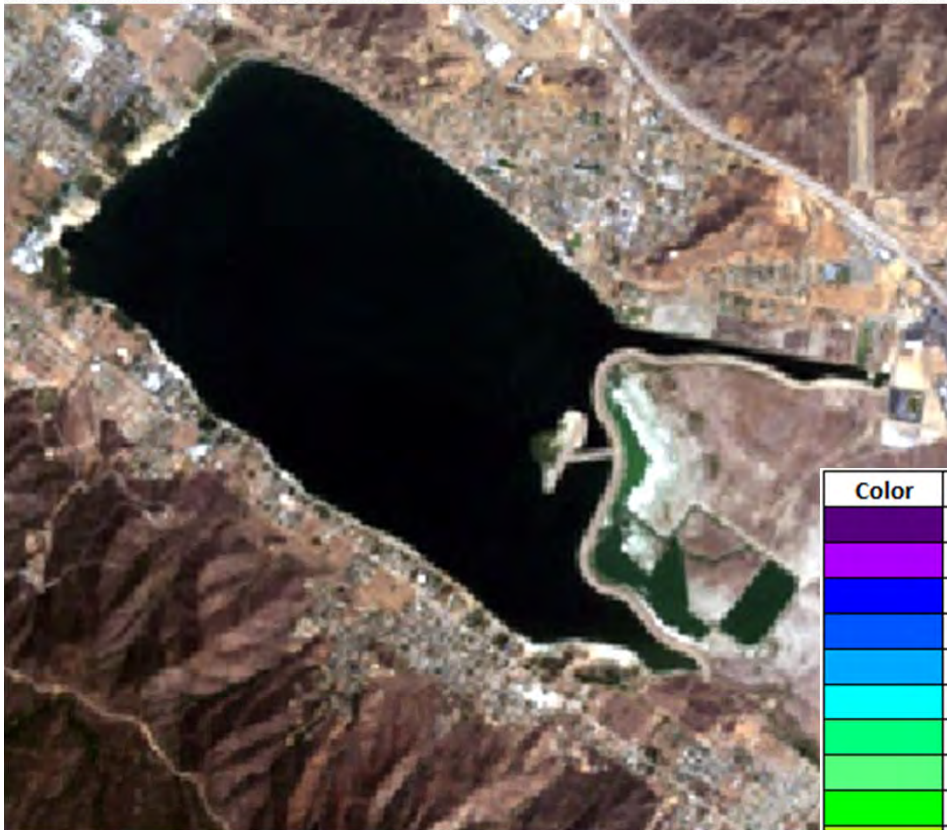
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	54.5
Purple	6-10	3.8
Blue	11-15	1.7
Light Blue	16-20	4.7
Cyan	21-25	8.8
Light Cyan	26-30	0.9
Green	31-35	2.9
Light Green	36-40	2.8
Bright Green	41-45	2.1
Yellow-Green	46-50	2.5
Yellow	51-75	7.4
Orange	76-100	2.2
Light Orange	101-125	0.6
Dark Orange	126-150	0.2
Red	>150	4.9

Lake Elsinore 08/12/1999 Natural Color Image (Left) and Chl-a Scan (Right)



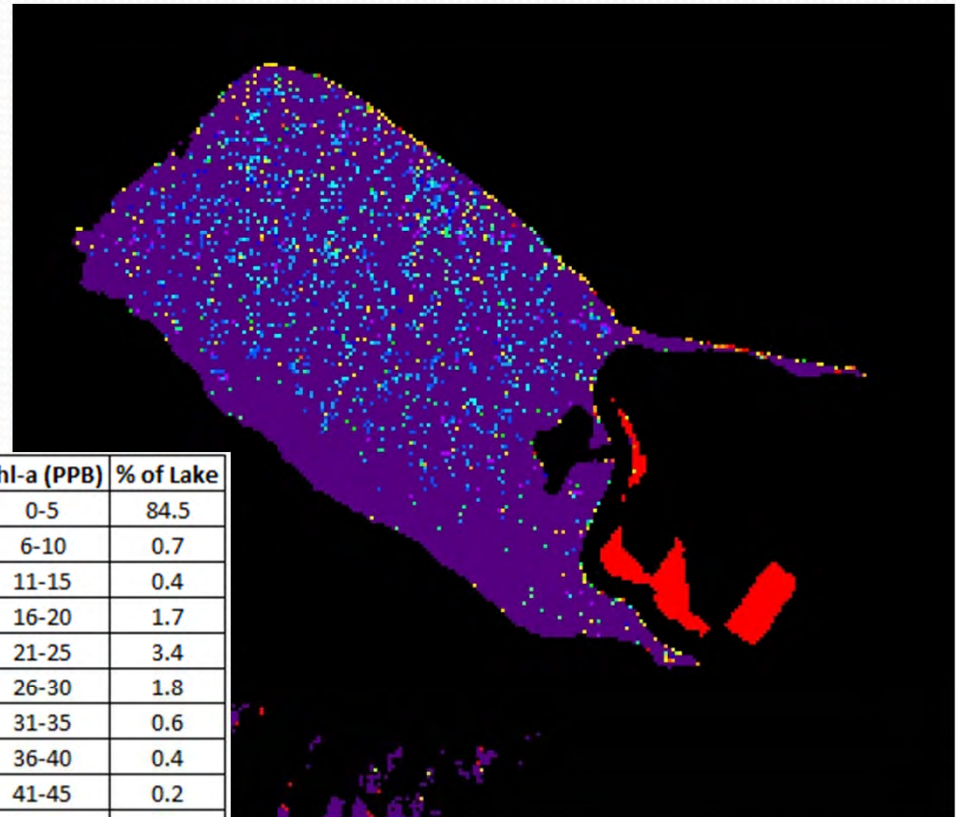
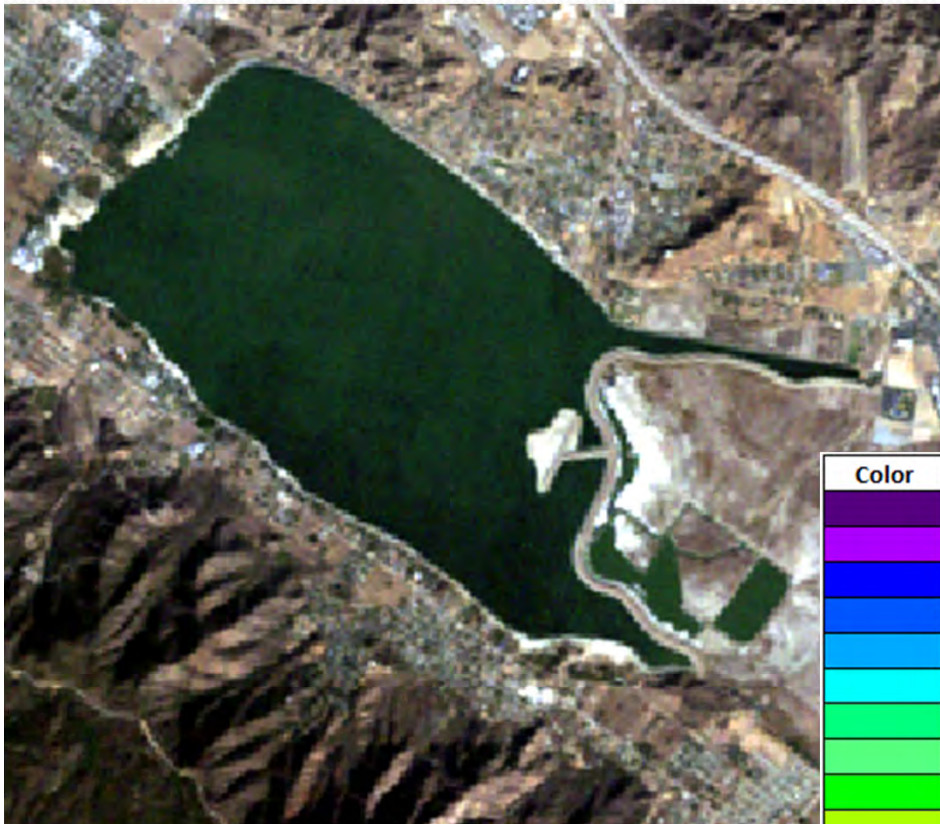
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	23.9
Light Purple	6-10	1.7
Blue	11-15	1.4
Light Blue	16-20	0.6
Cyan	21-25	0.3
Light Cyan	26-30	0.3
Green	31-35	0.2
Light Green	36-40	0.2
Bright Green	41-45	3.0
Yellow-Green	46-50	1.9
Yellow	51-75	13.0
Orange-Yellow	76-100	12.2
Orange	101-125	10.7
Red-Orange	126-150	9.7
Red	>150	21.0

Lake Elsinore 09/13/1999 Natural Color Image (Left) and Chl-a Scan (Right)



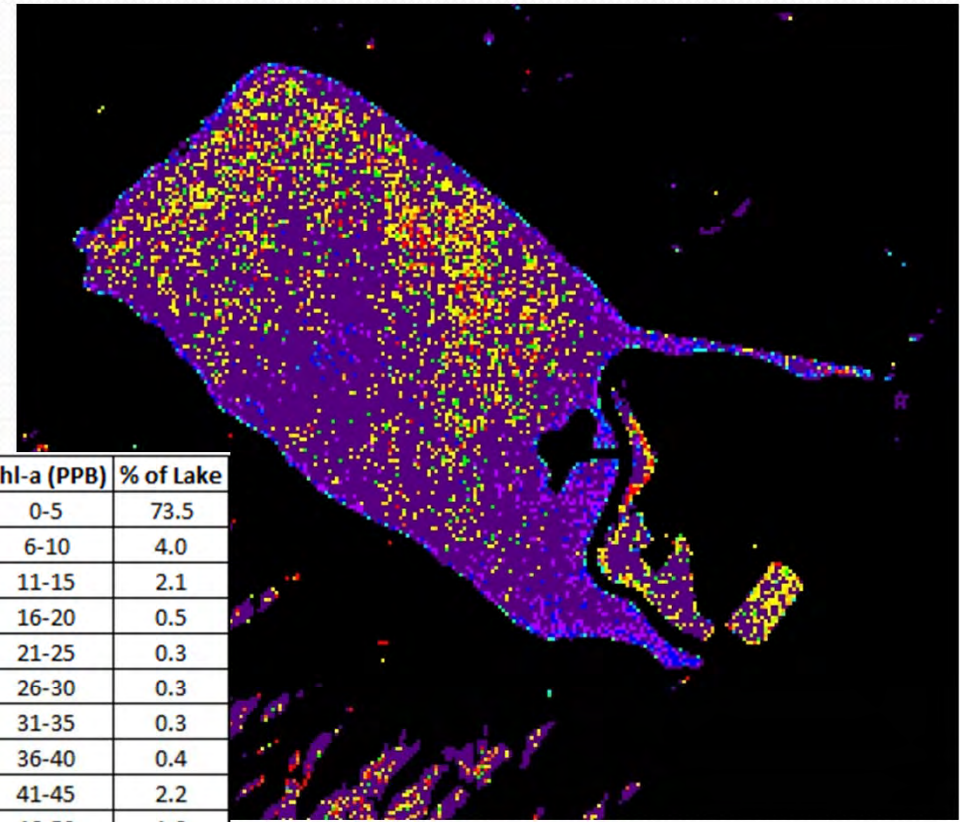
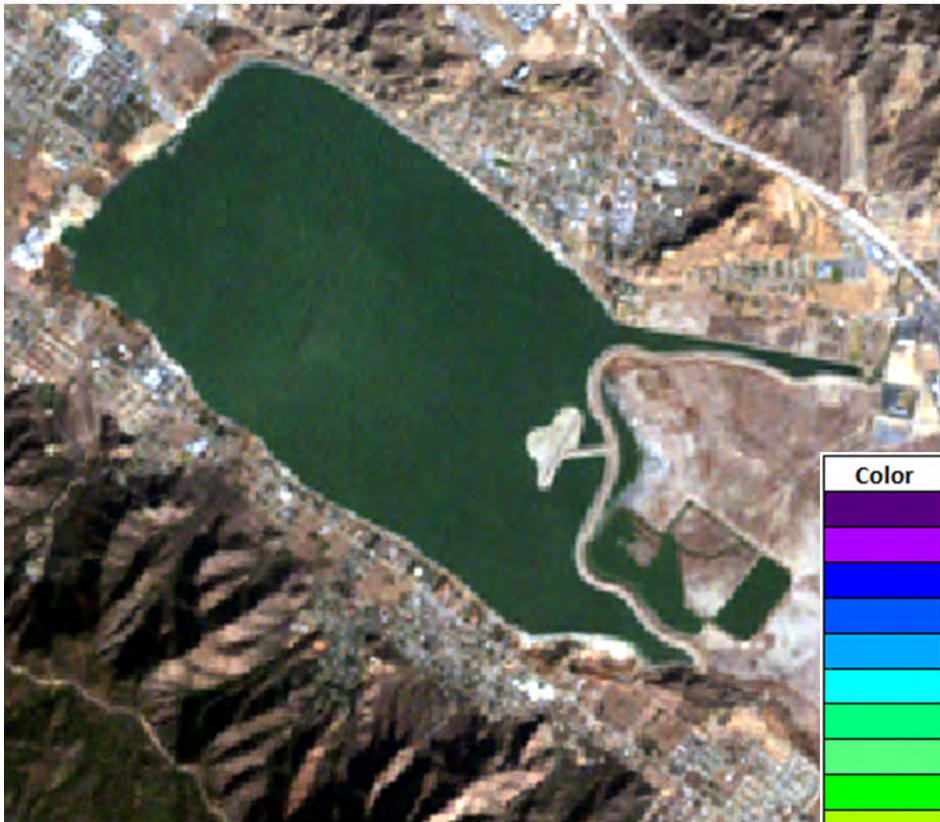
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	4.8
Purple	6-10	0.6
Blue	11-15	0.5
Light Blue	16-20	0.3
Cyan	21-25	0.2
Light Cyan	26-30	0.3
Green	31-35	0.2
Light Green	36-40	0.1
Bright Green	41-45	0.1
Yellow-Green	46-50	0.1
Yellow	51-75	0.6
Orange	76-100	0.7
Dark Orange	101-125	0.6
Red-Orange	126-150	0.9
Red	>150	90.0

Lake Elsinore 11/24/1999 Natural Color Image (Left) and Chl-a Scan (Right)



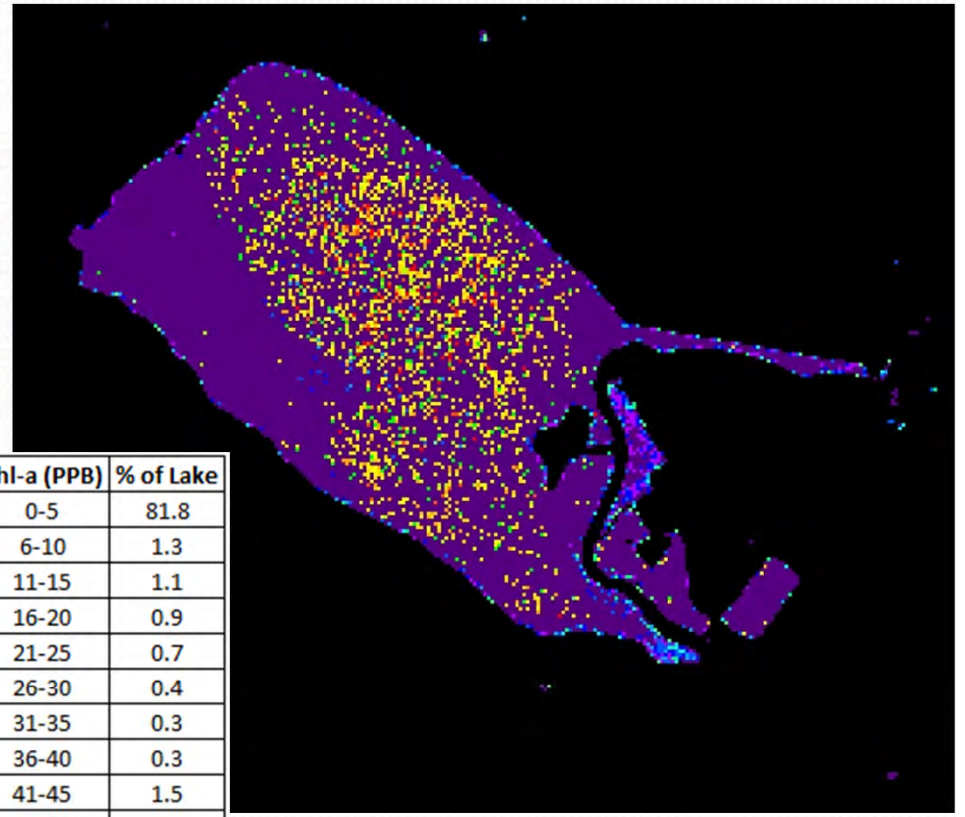
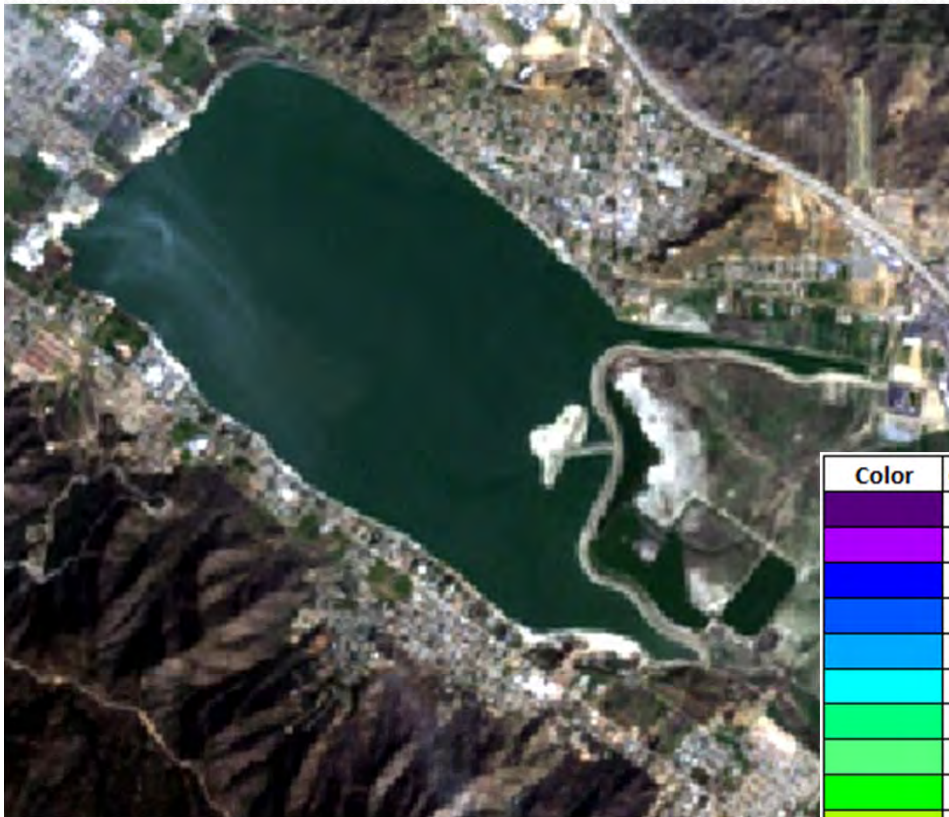
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	84.5
Light Purple	6-10	0.7
Blue-Black	11-15	0.4
Blue	16-20	1.7
Cyan	21-25	3.4
Light Cyan	26-30	1.8
Green	31-35	0.6
Light Green	36-40	0.4
Bright Green	41-45	0.2
Yellow-Green	46-50	0.3
Yellow	51-75	0.9
Orange-Yellow	76-100	0.4
Orange	101-125	0.2
Red-Orange	126-150	0.1
Red	>150	4.2

Lake Elsinore 01/03/2000 Natural Color Image (Left) and Chl-a Scan (Right)



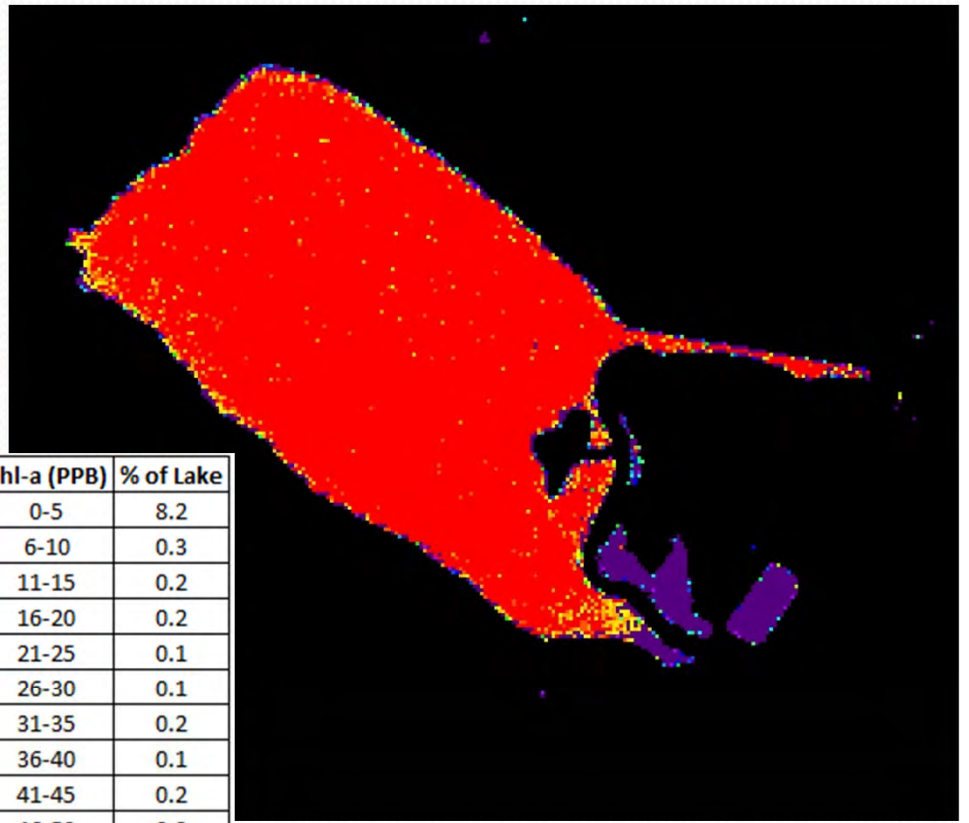
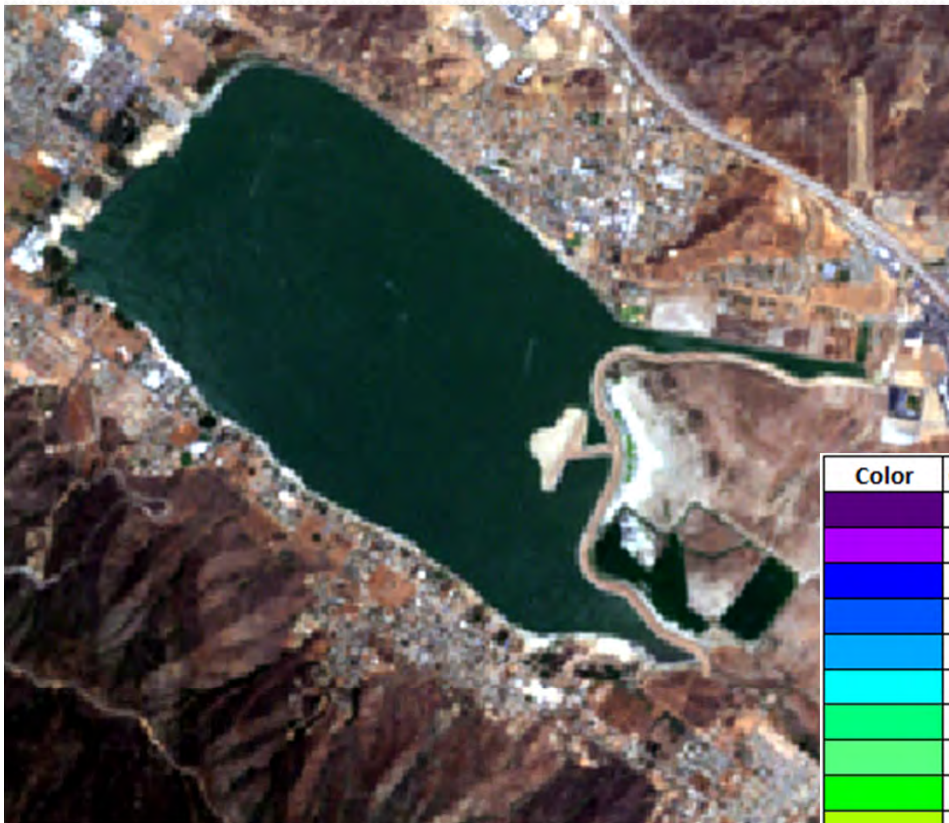
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	73.5
Light Purple	6-10	4.0
Blue	11-15	2.1
Light Blue	16-20	0.5
Cyan	21-25	0.3
Light Cyan	26-30	0.3
Green	31-35	0.3
Light Green	36-40	0.4
Bright Green	41-45	2.2
Yellow-Green	46-50	1.8
Yellow	51-75	6.8
Orange-Yellow	76-100	3.6
Orange	101-125	1.6
Red-Orange	126-150	0.8
Red	>150	1.9

Lake Elsinore 03/23/2000 Natural Color Image (Left) and Chl-a Scan (Right)



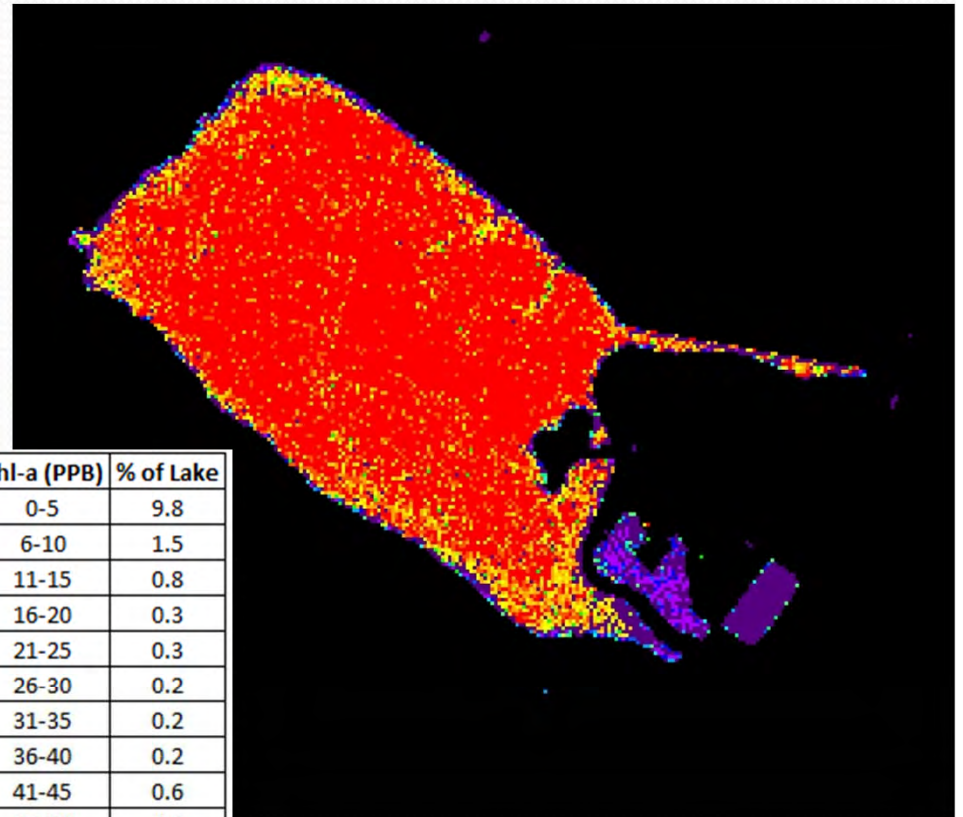
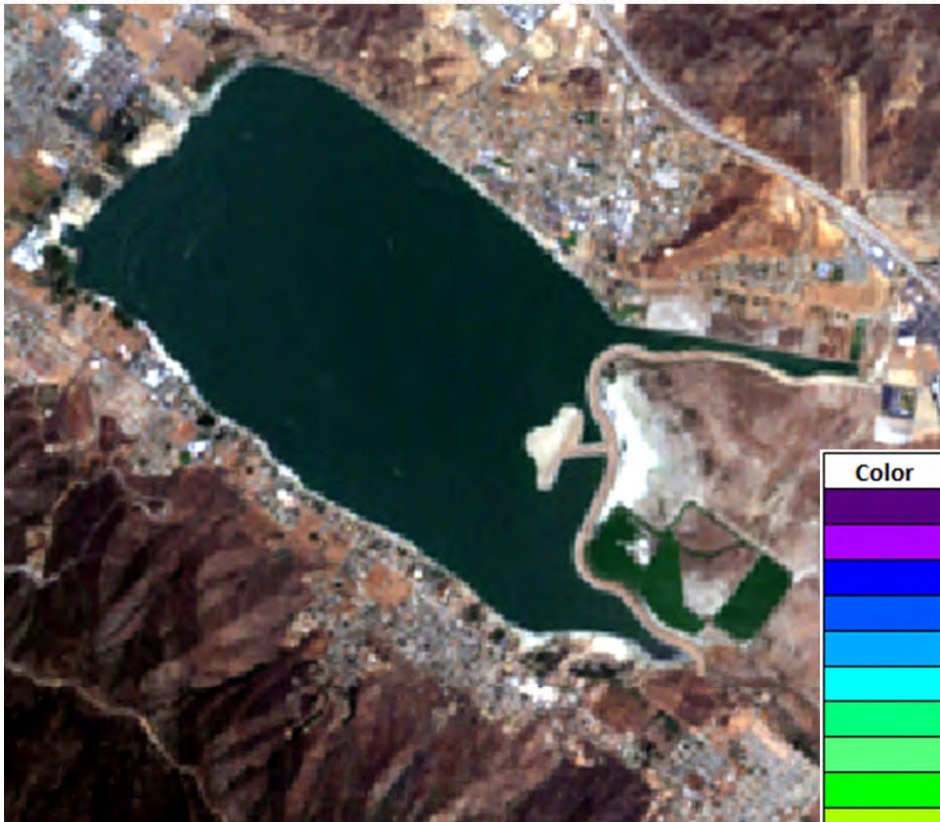
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	81.8
Light Purple	6-10	1.3
Blue	11-15	1.1
Light Blue	16-20	0.9
Cyan	21-25	0.7
Light Cyan	26-30	0.4
Green	31-35	0.3
Light Green	36-40	0.3
Bright Green	41-45	1.5
Yellow-Green	46-50	1.1
Yellow	51-75	5.6
Orange	76-100	2.7
Light Orange	101-125	1.3
Red-Orange	126-150	0.6
Red	>150	0.6

Lake Elsinore 06/27/2000 Natural Color Image (Left) and Chl-a Scan (Right)



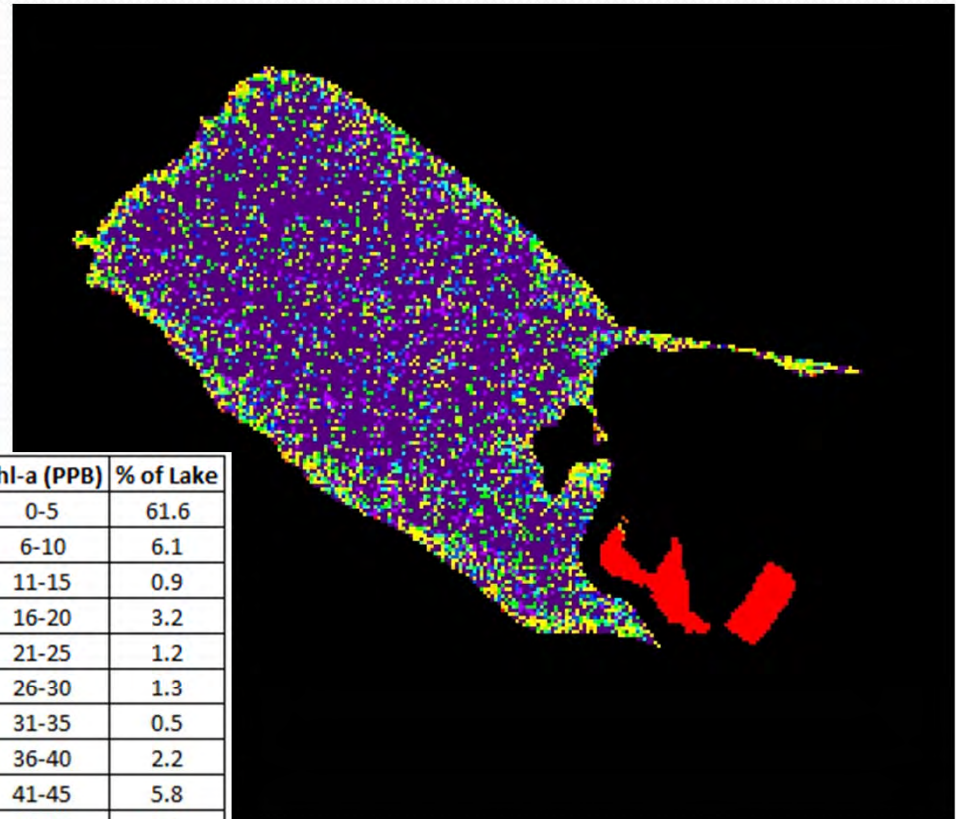
Color	Chl-a (PPB)	% of Lake
Purple	0-5	8.2
Blue-purple	6-10	0.3
Blue	11-15	0.2
Light blue	16-20	0.2
Cyan	21-25	0.1
Light green	26-30	0.1
Green	31-35	0.2
Light green	36-40	0.1
Yellow-green	41-45	0.2
Yellow	46-50	0.2
Yellow	51-75	0.9
Orange	76-100	1.1
Orange	101-125	1.6
Red-orange	126-150	2.2
Red	>150	84.4

Lake Elsinore 07/13/2000 Natural Color Image (Left) and Chl-a Scan (Right)



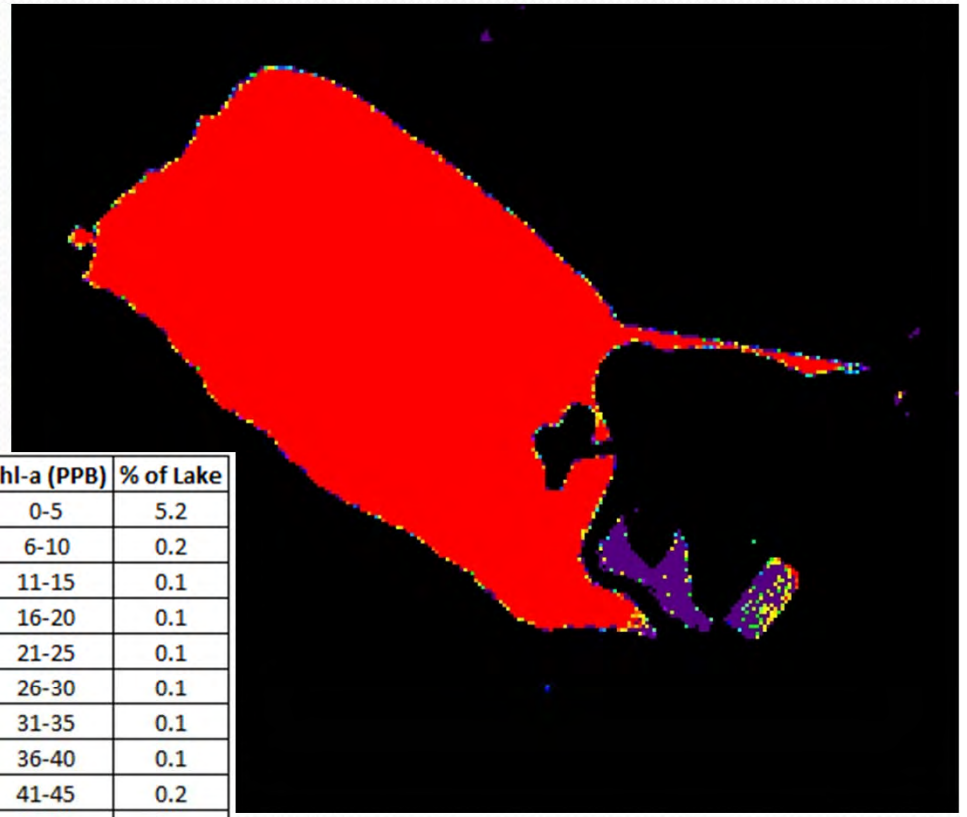
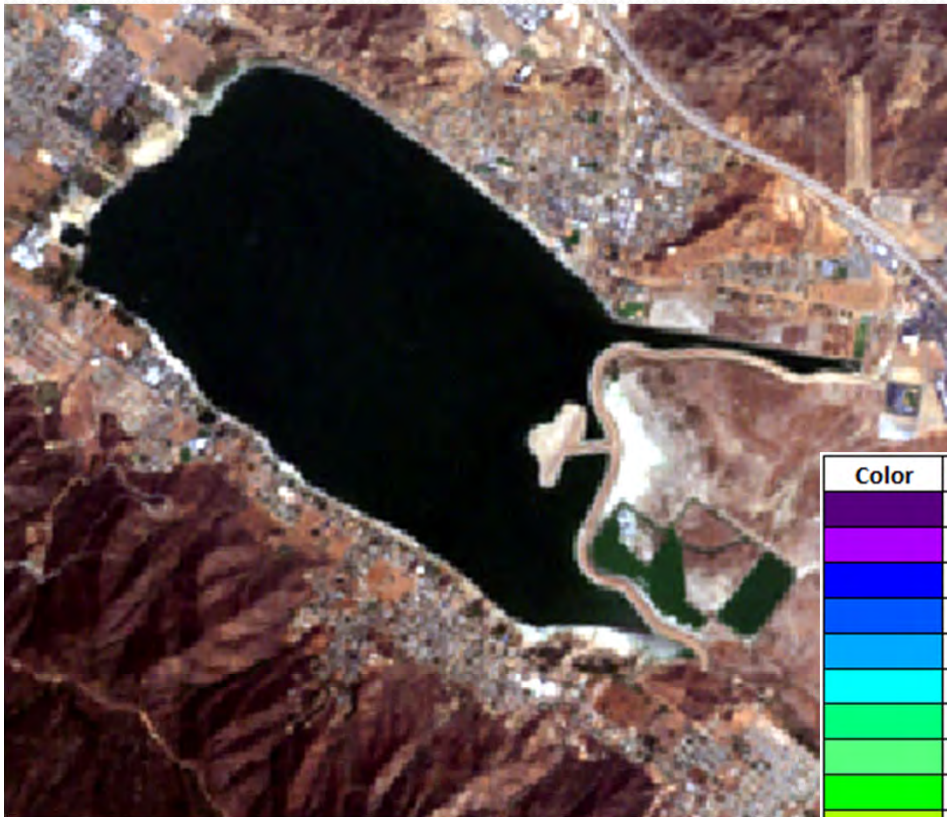
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	9.8
Medium Purple	6-10	1.5
Blue	11-15	0.8
Light Blue	16-20	0.3
Cyan	21-25	0.3
Light Cyan	26-30	0.2
Green	31-35	0.2
Light Green	36-40	0.2
Bright Green	41-45	0.6
Yellow-Green	46-50	0.4
Yellow	51-75	3.2
Orange-Yellow	76-100	4.1
Orange	101-125	5.7
Red-Orange	126-150	8.1
Red	>150	64.6

Lake Elsinore 08/22/2000 Natural Color Image (Left) and Chl-a Scan (Right)



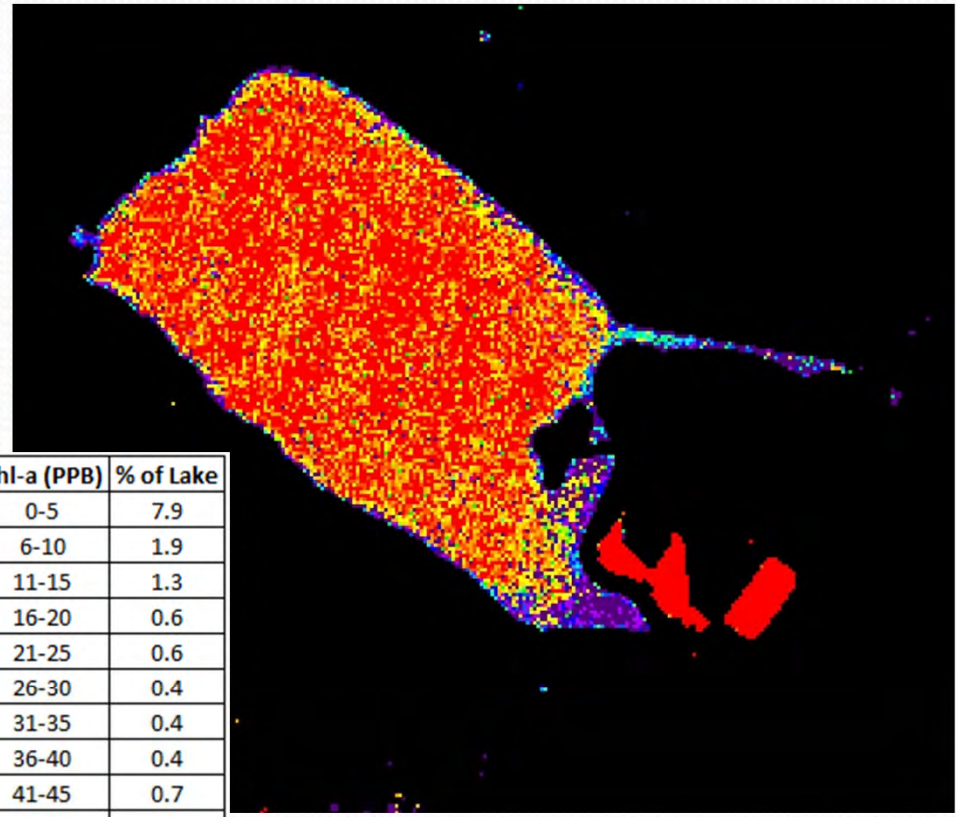
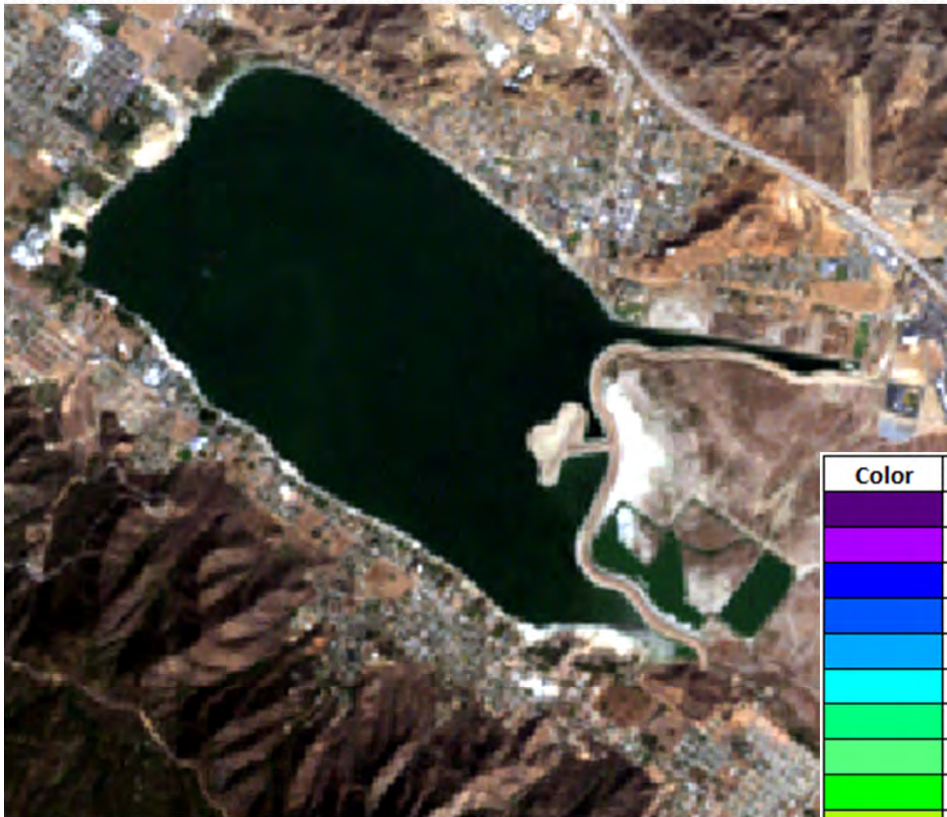
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	61.6
Light Purple	6-10	6.1
Blue	11-15	0.9
Light Blue	16-20	3.2
Cyan	21-25	1.2
Light Cyan	26-30	1.3
Green	31-35	0.5
Light Green	36-40	2.2
Bright Green	41-45	5.8
Yellow-Green	46-50	4.1
Yellow	51-75	7.2
Orange-Yellow	76-100	1.5
Orange	101-125	0.3
Red-Orange	126-150	0.1
Red	>150	4.0

Lake Elsinore 09/15/2000 Natural Color Image (Left) and Chl-a Scan (Right)



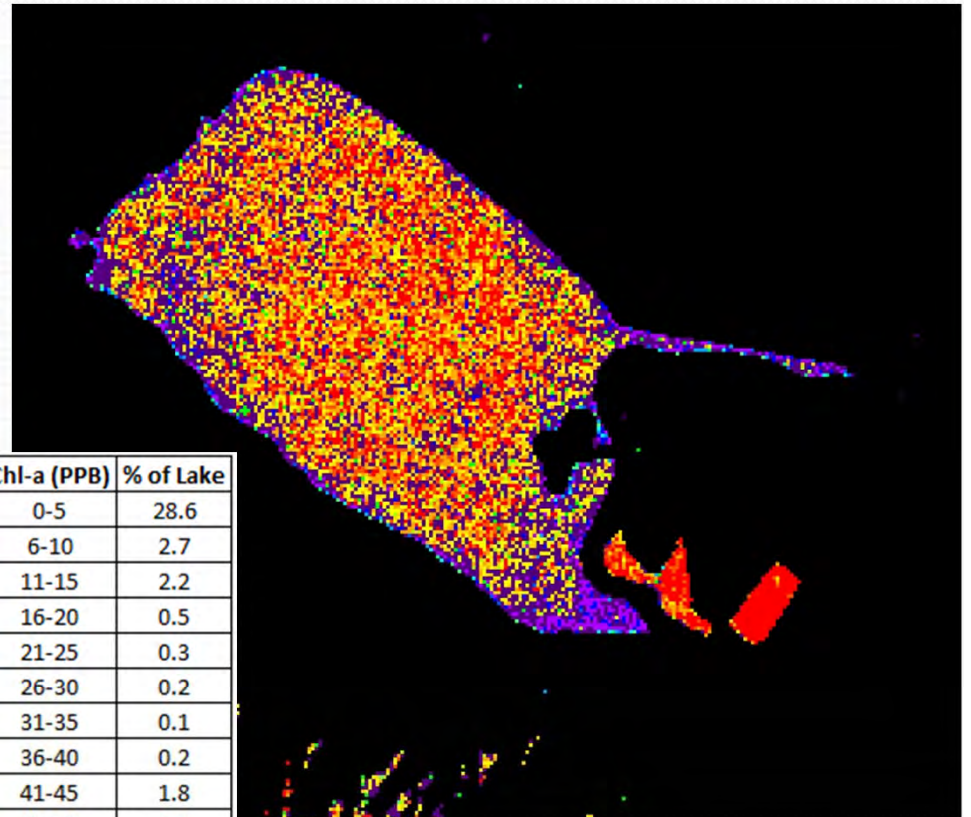
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	5.2
Light Purple	6-10	0.2
Blue	11-15	0.1
Light Blue	16-20	0.1
Cyan	21-25	0.1
Light Cyan	26-30	0.1
Green	31-35	0.1
Light Green	36-40	0.1
Bright Green	41-45	0.2
Yellow-Green	46-50	0.1
Yellow	51-75	0.7
Orange	76-100	0.4
Light Orange	101-125	0.3
Dark Orange	126-150	0.4
Red	>150	91.7

Lake Elsinore 10/17/2000 Natural Color Image (Left) and Chl-a Scan (Right)



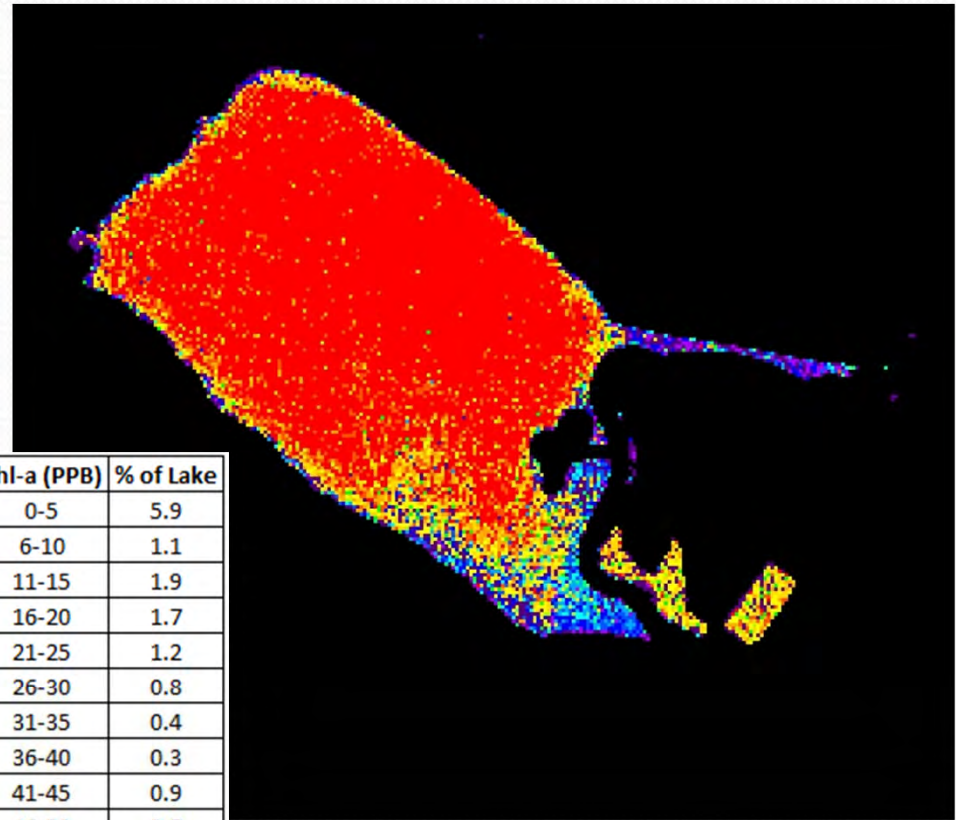
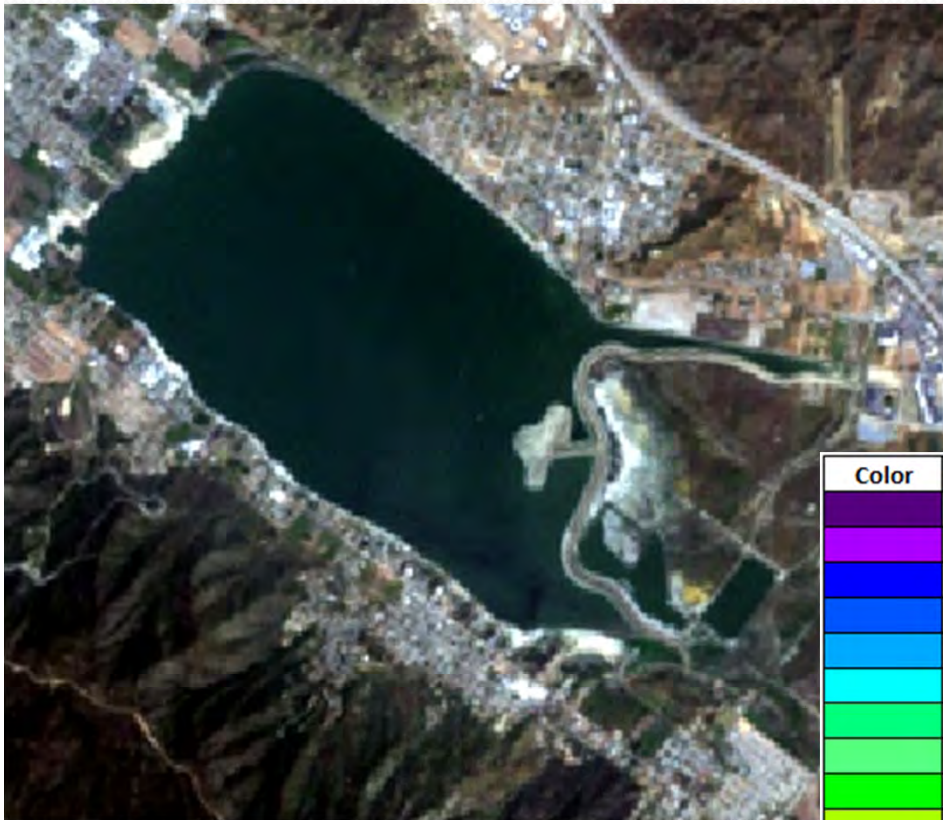
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	7.9
Medium Purple	6-10	1.9
Blue	11-15	1.3
Light Blue	16-20	0.6
Cyan	21-25	0.6
Light Cyan	26-30	0.4
Green	31-35	0.4
Light Green	36-40	0.4
Bright Green	41-45	0.7
Yellow-Green	46-50	0.9
Yellow	51-75	5.6
Orange-Yellow	76-100	8.5
Orange	101-125	11.7
Red-Orange	126-150	11.2
Red	>150	47.7

Lake Elsinore 02/06/2001 Natural Color Image (Left) and Chl-a Scan (Right)



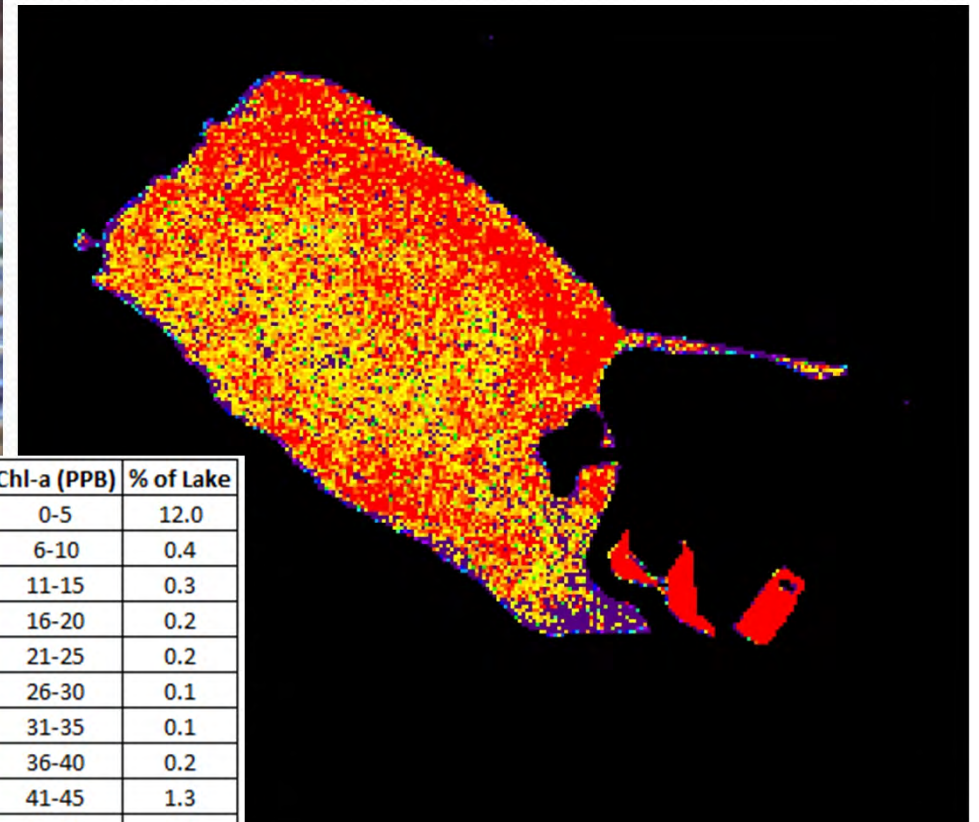
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	28.6
Light Purple	6-10	2.7
Blue	11-15	2.2
Light Blue	16-20	0.5
Cyan	21-25	0.3
Light Cyan	26-30	0.2
Green	31-35	0.1
Light Green	36-40	0.2
Bright Green	41-45	1.8
Yellow-Green	46-50	1.9
Yellow	51-75	12.8
Orange-Yellow	76-100	9.5
Orange	101-125	11.8
Red-Orange	126-150	8.7
Red	>150	18.6

Lake Elsinore 04/27/2001 Natural Color Image (Left) and Chl-a Scan (Right)



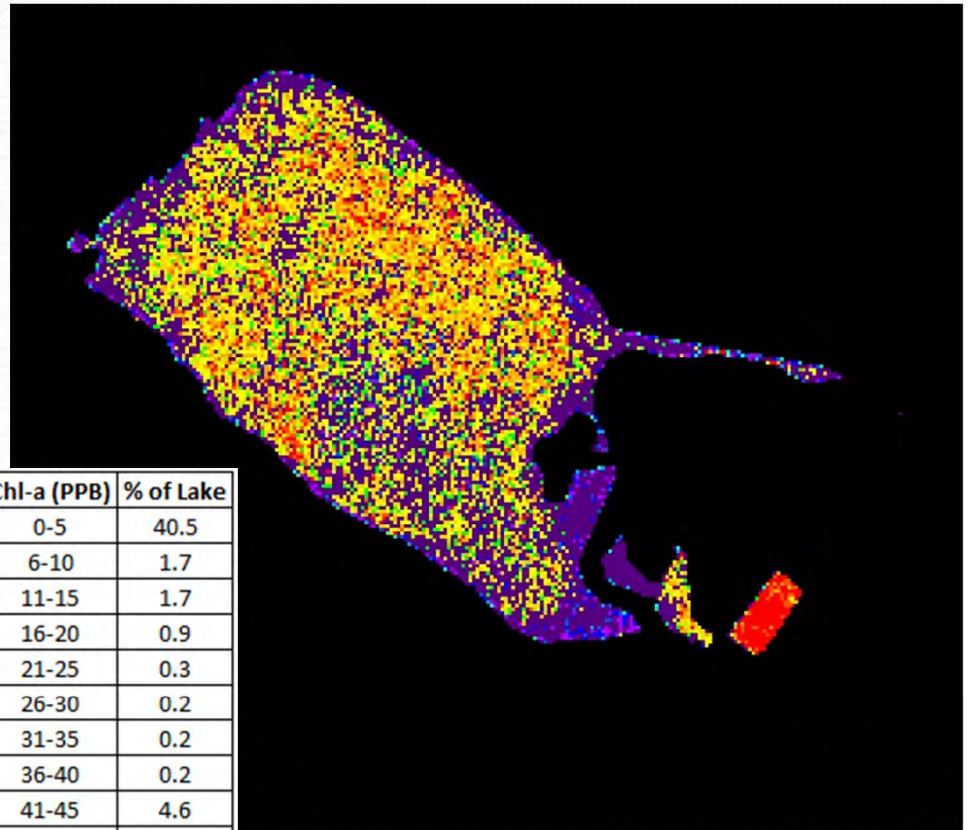
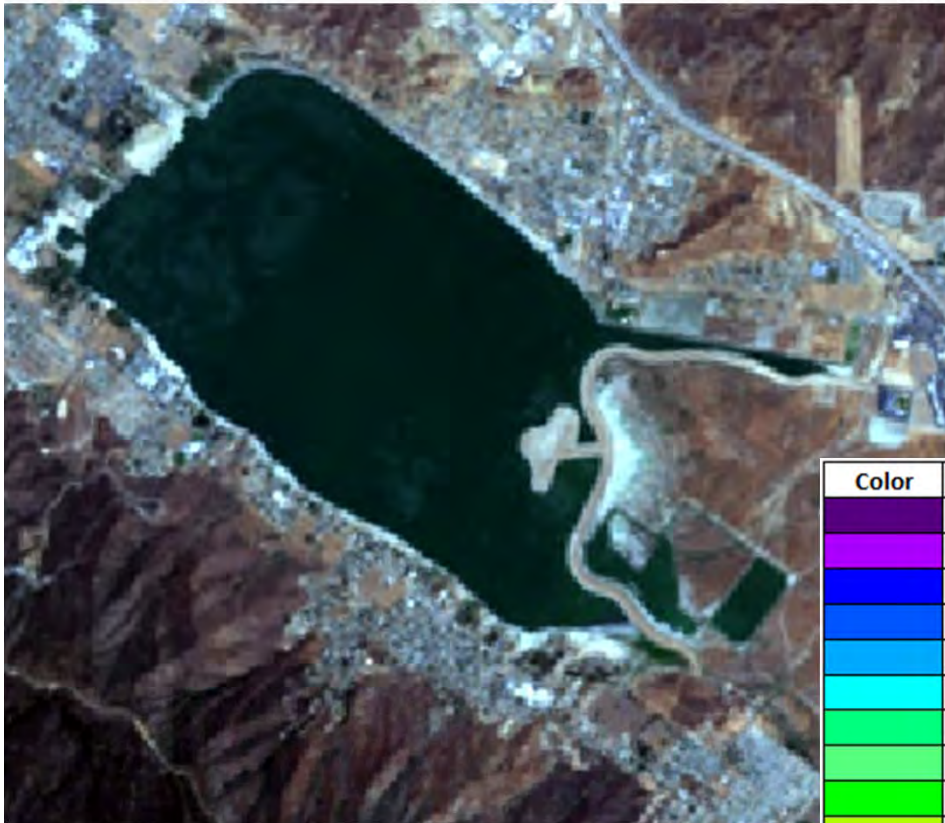
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	5.9
Medium Purple	6-10	1.1
Blue	11-15	1.9
Light Blue	16-20	1.7
Cyan	21-25	1.2
Light Cyan	26-30	0.8
Green	31-35	0.4
Light Green	36-40	0.3
Bright Green	41-45	0.9
Yellow-Green	46-50	0.7
Yellow	51-75	4.6
Orange	76-100	4.8
Dark Orange	101-125	5.5
Red-Orange	126-150	6.5
Red	>150	63.7

Lake Elsinore 06/30/2001 Natural Color Image (Left) and Chl-a Scan (Right)



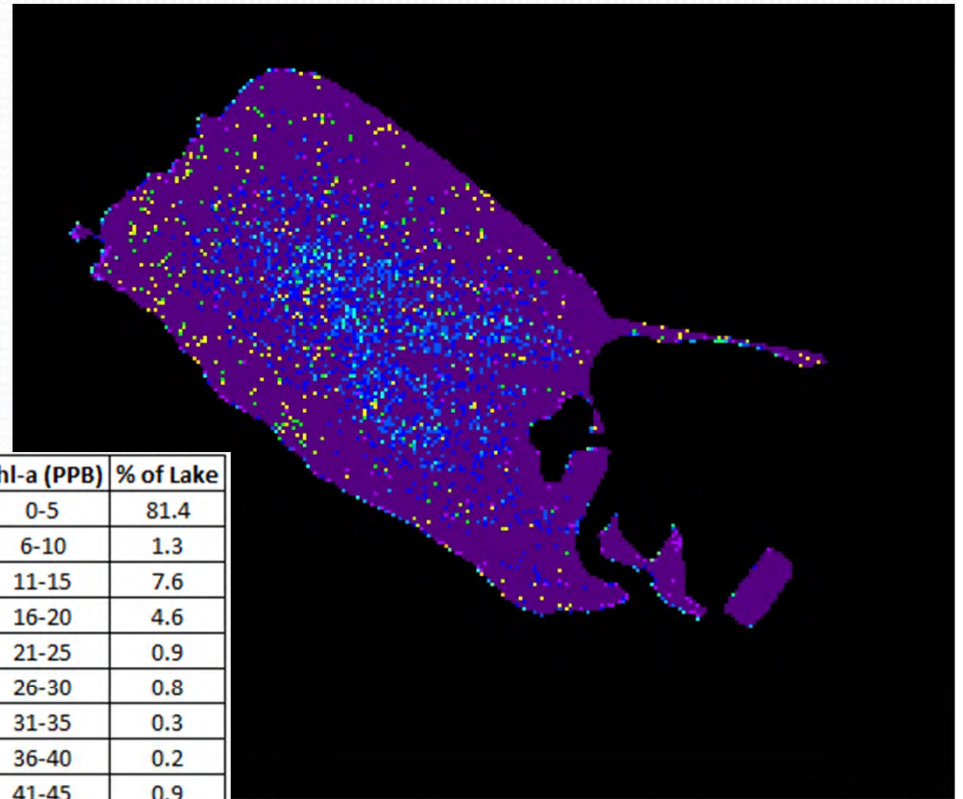
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	12.0
Purple	6-10	0.4
Blue-Purple	11-15	0.3
Blue	16-20	0.2
Light Blue	21-25	0.2
Cyan	26-30	0.1
Green-Cyan	31-35	0.1
Green	36-40	0.2
Light Green	41-45	1.3
Yellow-Green	46-50	1.3
Yellow	51-75	10.9
Orange-Yellow	76-100	13.9
Orange	101-125	13.3
Red-Orange	126-150	12.6
Red	>150	33.2

Lake Elsinore 07/16/2001 Natural Color Image (Left) and Chl-a Scan (Right)



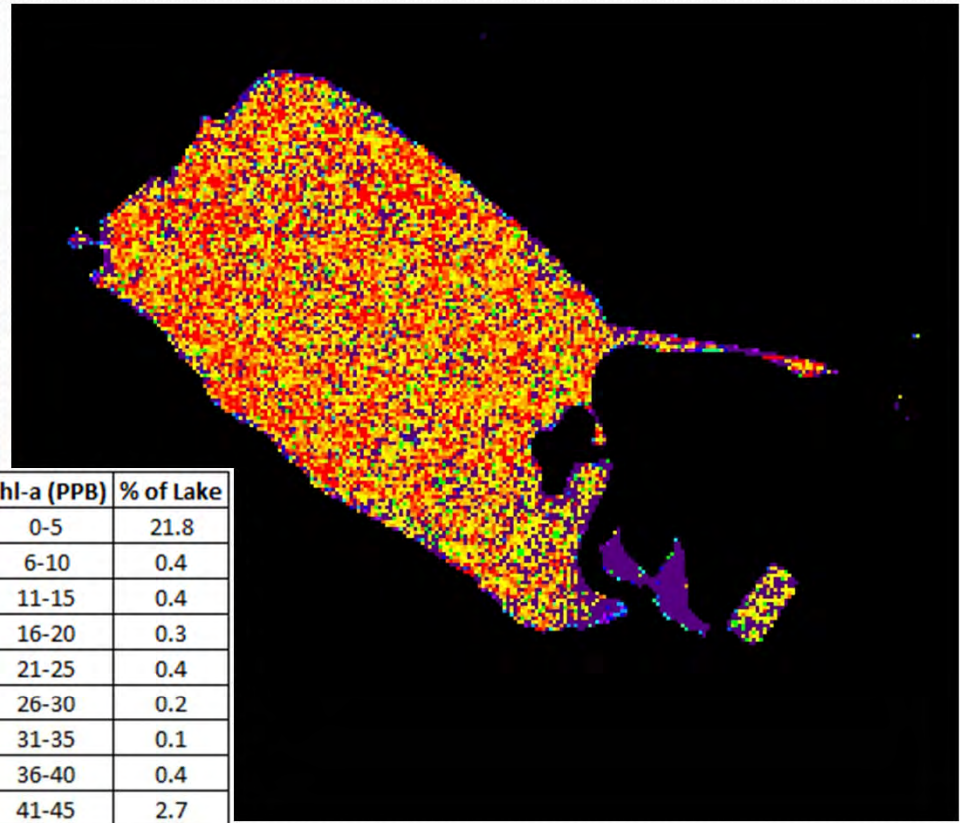
Color	Chl-a (PPB)	% of Lake
Purple	0-5	40.5
Blue-purple	6-10	1.7
Blue	11-15	1.7
Light blue	16-20	0.9
Cyan	21-25	0.3
Light cyan	26-30	0.2
Green	31-35	0.2
Light green	36-40	0.2
Yellow-green	41-45	4.6
Yellow	46-50	3.7
Orange-yellow	51-75	17.1
Orange	76-100	12.0
Red-orange	101-125	8.3
Red	126-150	4.7
Dark red	>150	4.1

Lake Elsinore 08/17/2001 Natural Color Image (Left) and Chl-a Scan (Right)



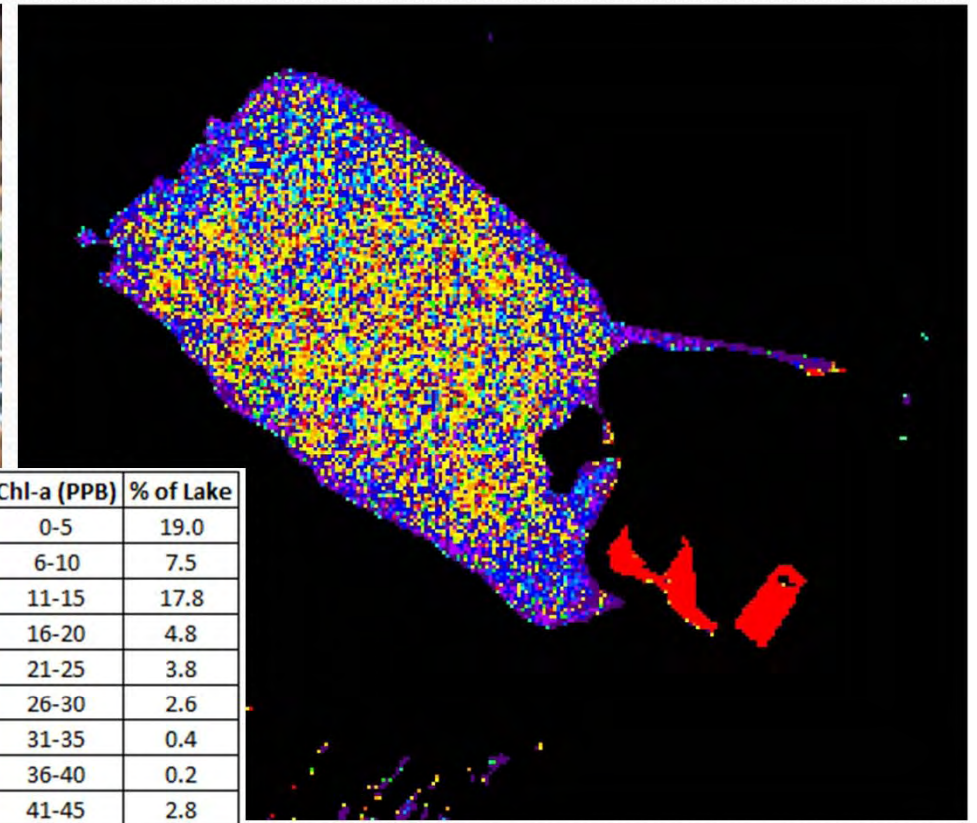
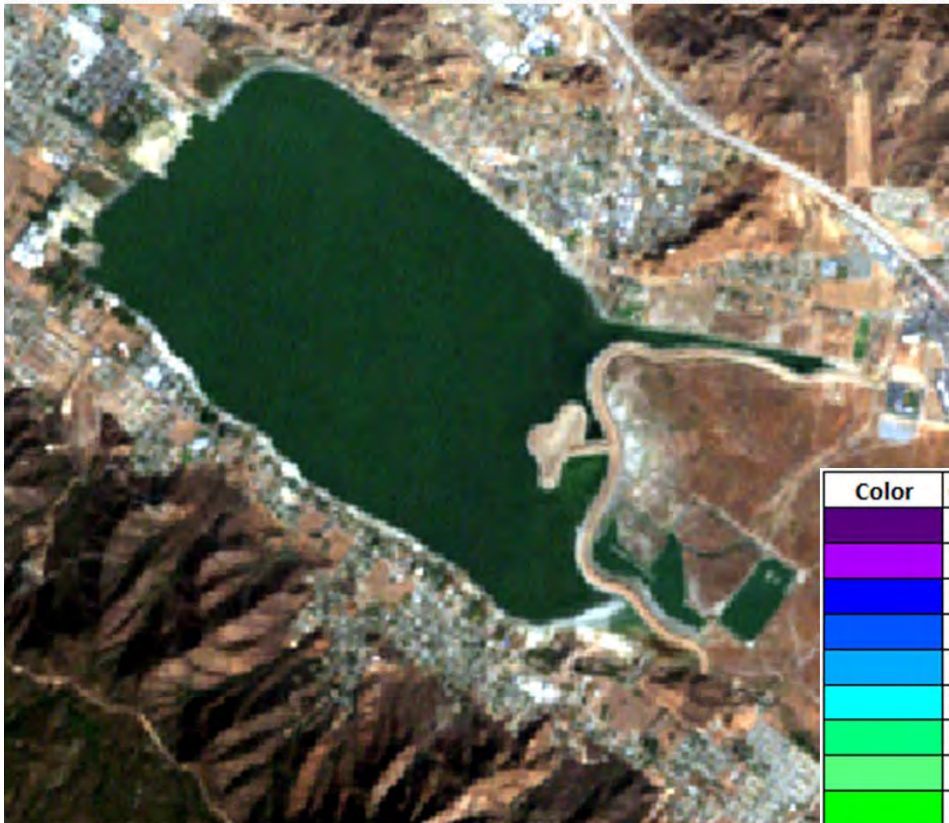
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	81.4
Light Purple	6-10	1.3
Blue-Indigo	11-15	7.6
Blue	16-20	4.6
Cyan	21-25	0.9
Light Cyan	26-30	0.8
Green	31-35	0.3
Light Green	36-40	0.2
Bright Green	41-45	0.9
Yellow-Green	46-50	0.6
Yellow	51-75	1.3
Orange-Yellow	76-100	0.2
Orange	101-125	0.0
Red-Orange	126-150	0.0
Red	>150	0.0

Lake Elsinore 09/02/2001 Natural Color Image (Left) and Chl-a Scan (Right)



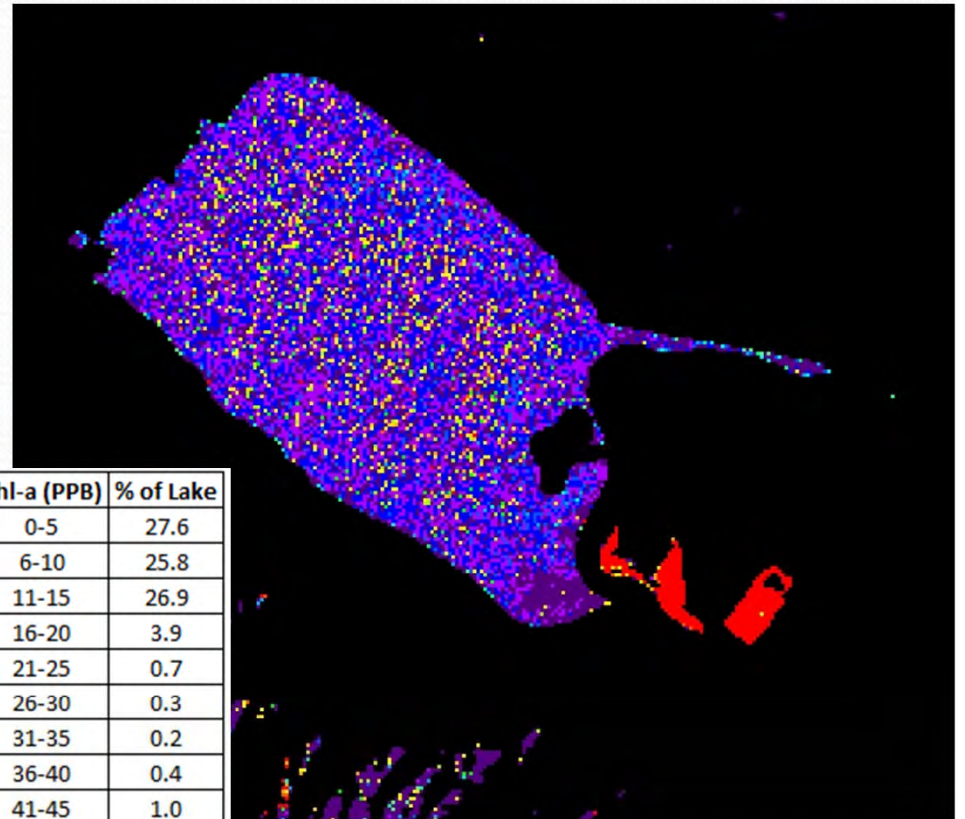
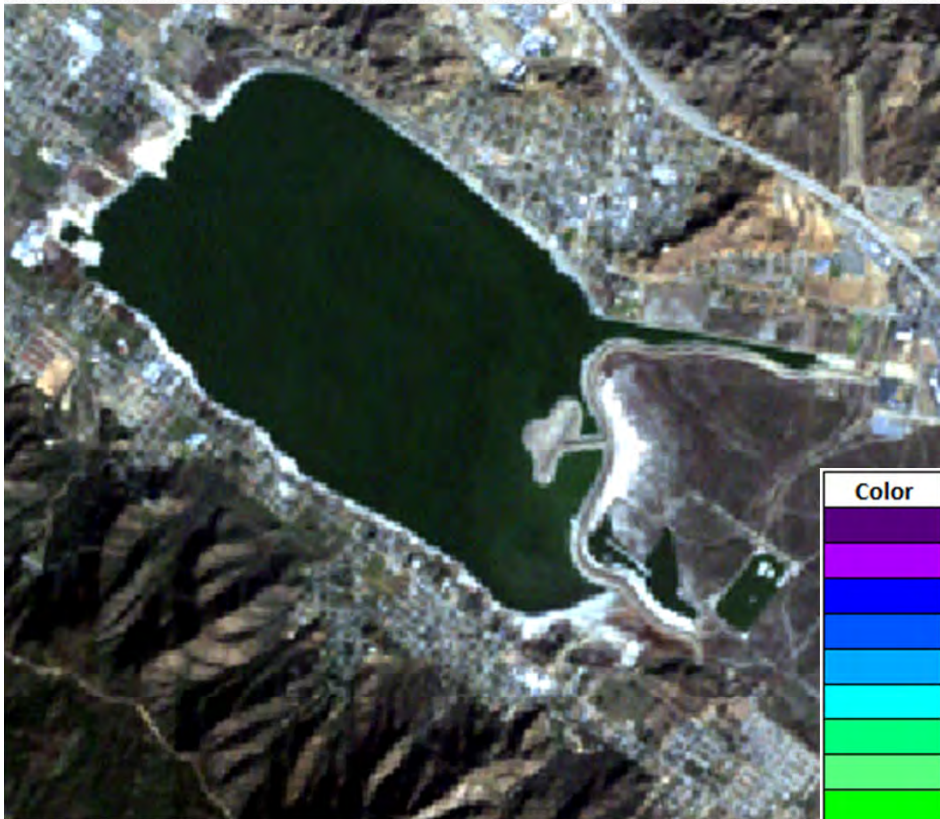
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	21.8
Purple	6-10	0.4
Blue-Purple	11-15	0.4
Blue	16-20	0.3
Light Blue	21-25	0.4
Cyan	26-30	0.2
Green-Cyan	31-35	0.1
Green	36-40	0.4
Light Green	41-45	2.7
Yellow-Green	46-50	2.5
Yellow	51-75	13.4
Orange-Yellow	76-100	13.4
Orange	101-125	12.8
Red-Orange	126-150	11.4
Red	>150	19.7

Lake Elsinore 11/05/2001 Natural Color Image (Left) and Chl-a Scan (Right)



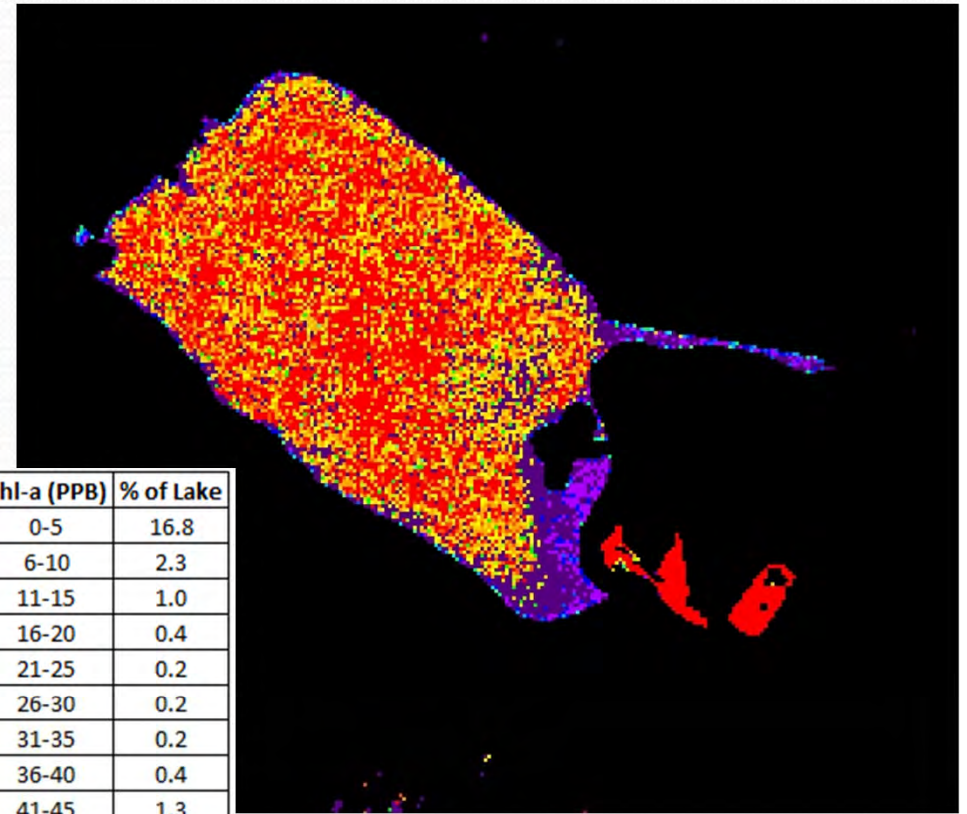
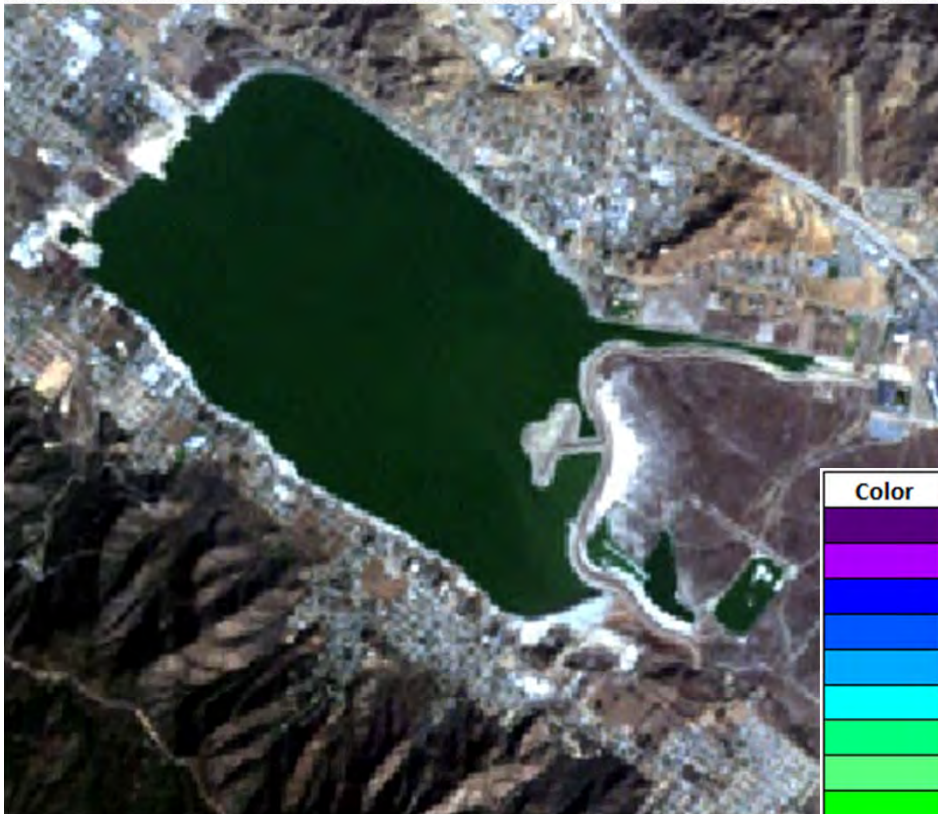
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	19.0
Light Purple	6-10	7.5
Blue-Black	11-15	17.8
Blue	16-20	4.8
Cyan	21-25	3.8
Light Cyan	26-30	2.6
Green	31-35	0.4
Light Green	36-40	0.2
Bright Green	41-45	2.8
Yellow-Green	46-50	3.7
Yellow	51-75	13.3
Orange-Yellow	76-100	9.3
Orange	101-125	5.7
Red-Orange	126-150	2.9
Red	>150	6.3

Lake Elsinore 01/24/2002 Natural Color Image (Left) and Chl-a Scan (Right)



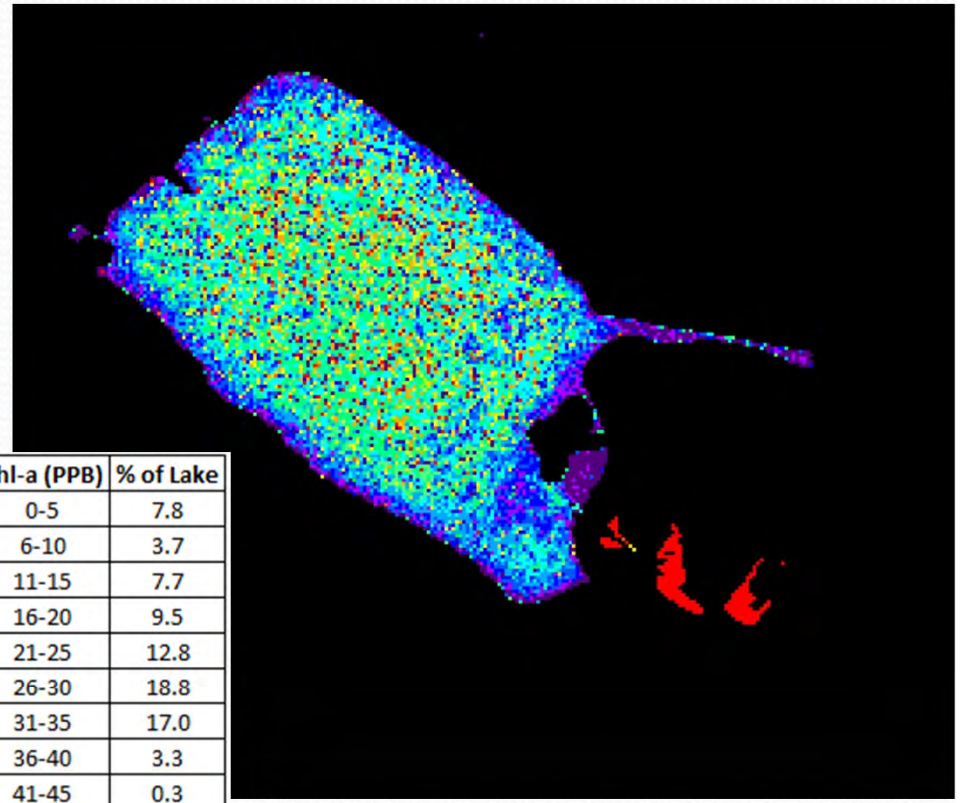
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	27.6
Medium Purple	6-10	25.8
Blue	11-15	26.9
Light Blue	16-20	3.9
Cyan	21-25	0.7
Light Cyan	26-30	0.3
Green	31-35	0.2
Light Green	36-40	0.4
Bright Green	41-45	1.0
Yellow-Green	46-50	2.0
Yellow	51-75	4.4
Orange	76-100	1.8
Light Orange	101-125	0.9
Dark Orange	126-150	0.4
Red	>150	3.7

Lake Elsinore 02/25/2002 Natural Color Image (Left) and Chl-a Scan (Right)



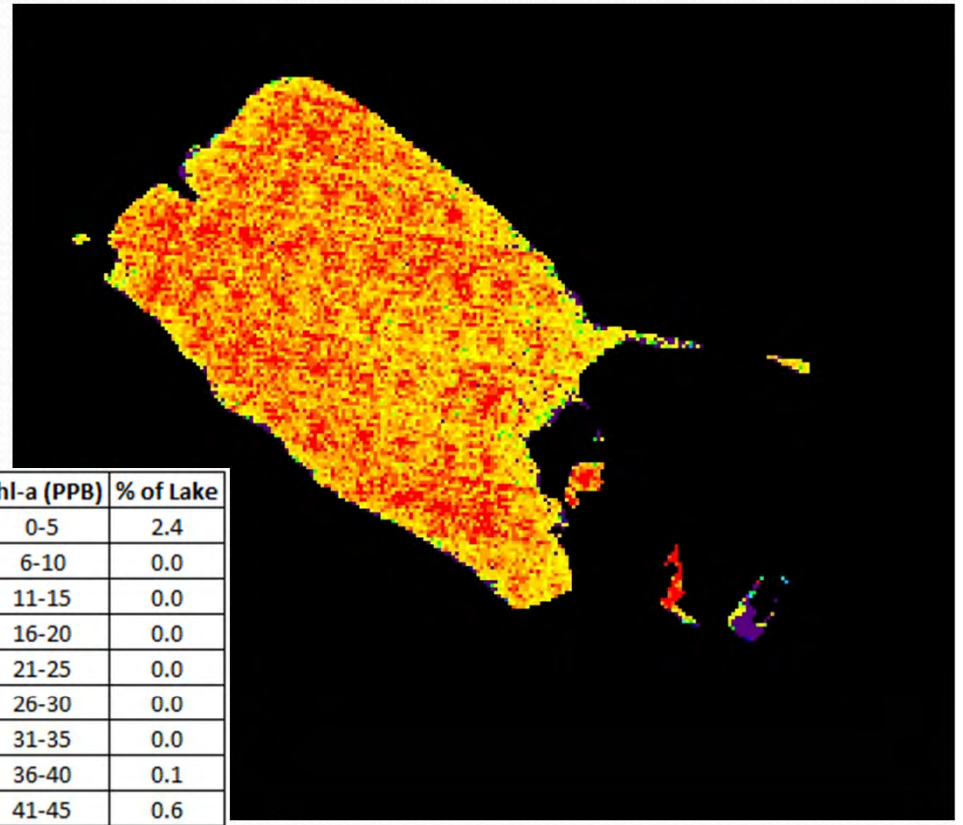
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	16.8
Purple	6-10	2.3
Blue-Purple	11-15	1.0
Blue	16-20	0.4
Light Blue	21-25	0.2
Cyan	26-30	0.2
Green-Cyan	31-35	0.2
Green	36-40	0.4
Light Green	41-45	1.3
Yellow-Green	46-50	1.1
Yellow	51-75	7.6
Orange-Yellow	76-100	10.9
Orange	101-125	11.1
Red-Orange	126-150	8.6
Red	>150	38.0

Lake Elsinore 06/01/2002 Natural Color Image (Left) and Chl-a Scan (Right)



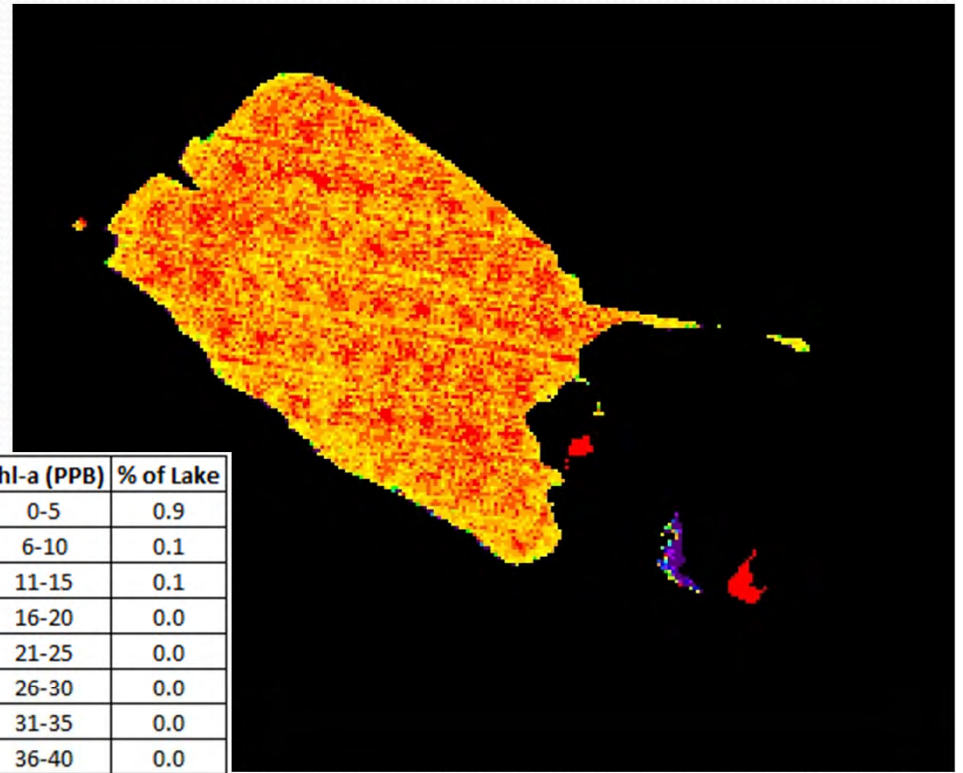
Color	Chl-a (PPB)	% of Lake
Purple	0-5	7.8
Dark Purple	6-10	3.7
Blue	11-15	7.7
Light Blue	16-20	9.5
Cyan	21-25	12.8
Light Cyan	26-30	18.8
Green	31-35	17.0
Light Green	36-40	3.3
Yellow-Green	41-45	0.3
Yellow	46-50	1.6
Orange-Yellow	51-75	5.3
Orange	76-100	3.6
Dark Orange	101-125	3.4
Red-Orange	126-150	0.9
Red	>150	4.2

Lake Elsinore 07/27/2002 Natural Color Image (Left) and Chl-a Scan (Right)



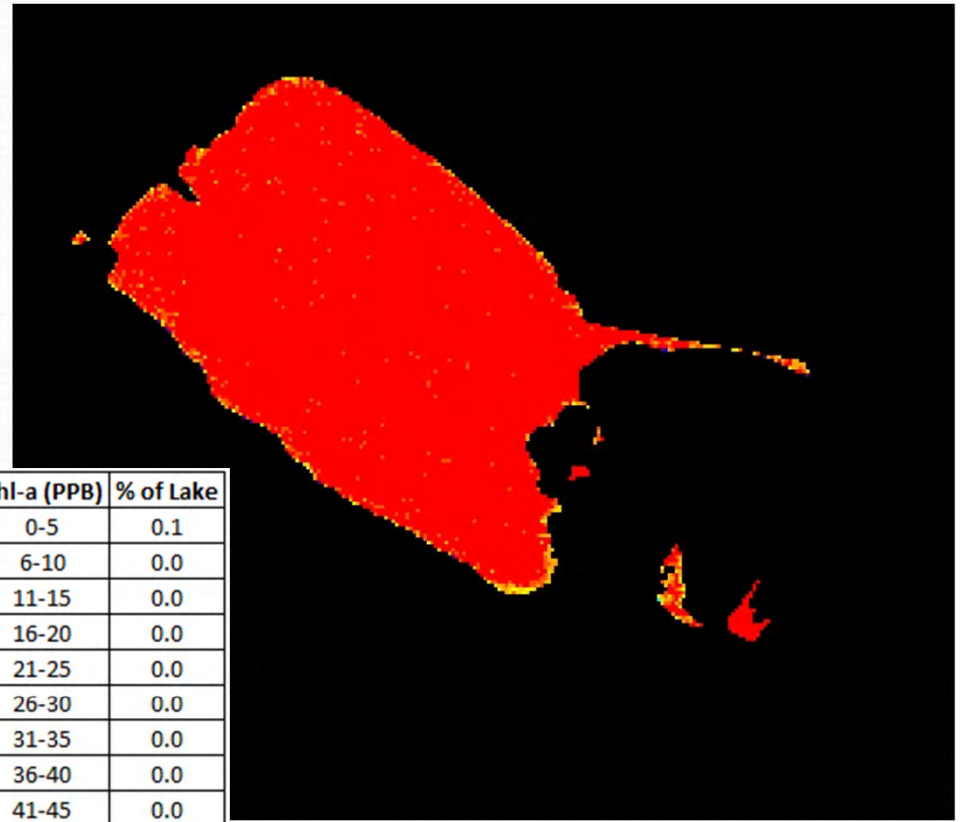
Color	Chl-a (PPB)	% of Lake
Purple	0-5	2.4
Blue-Violet	6-10	0.0
Blue	11-15	0.0
Light Blue	16-20	0.0
Cyan	21-25	0.0
Green-Cyan	26-30	0.0
Green	31-35	0.0
Light Green	36-40	0.1
Yellow-Green	41-45	0.6
Yellow	46-50	1.0
Orange-Yellow	51-75	9.2
Orange	76-100	22.7
Red-Orange	101-125	27.7
Red	126-150	22.3
Dark Red	>150	13.9

Lake Elsinore 08/28/2002 Natural Color Image (Left) and Chl-a Scan (Right)



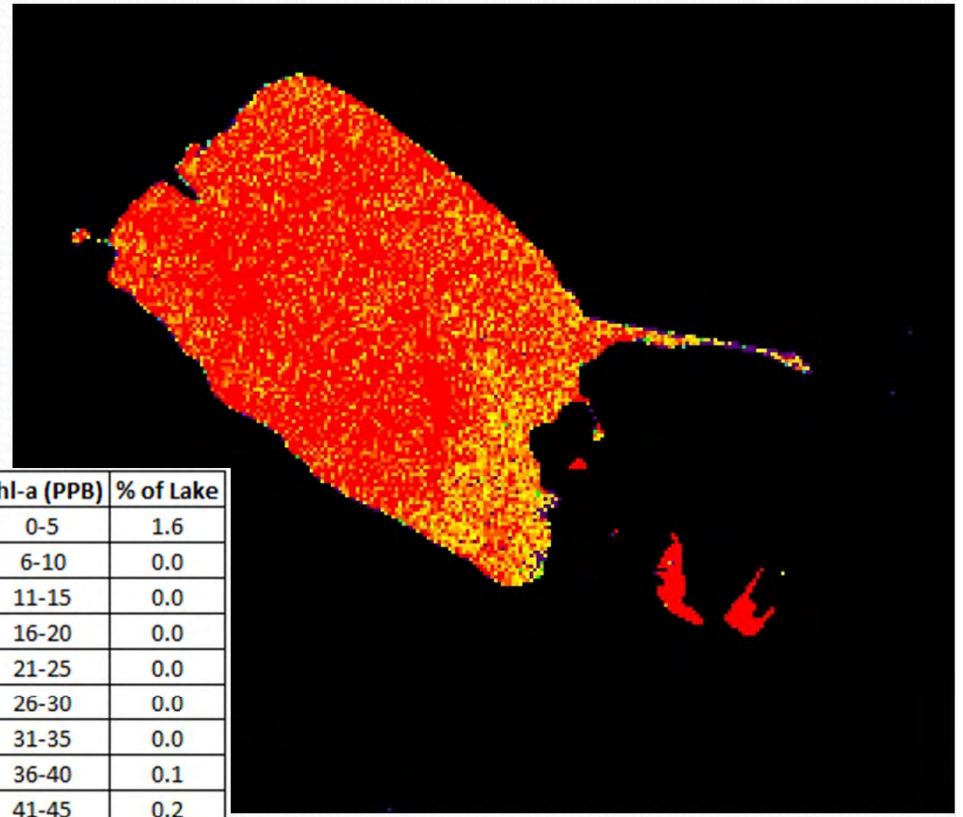
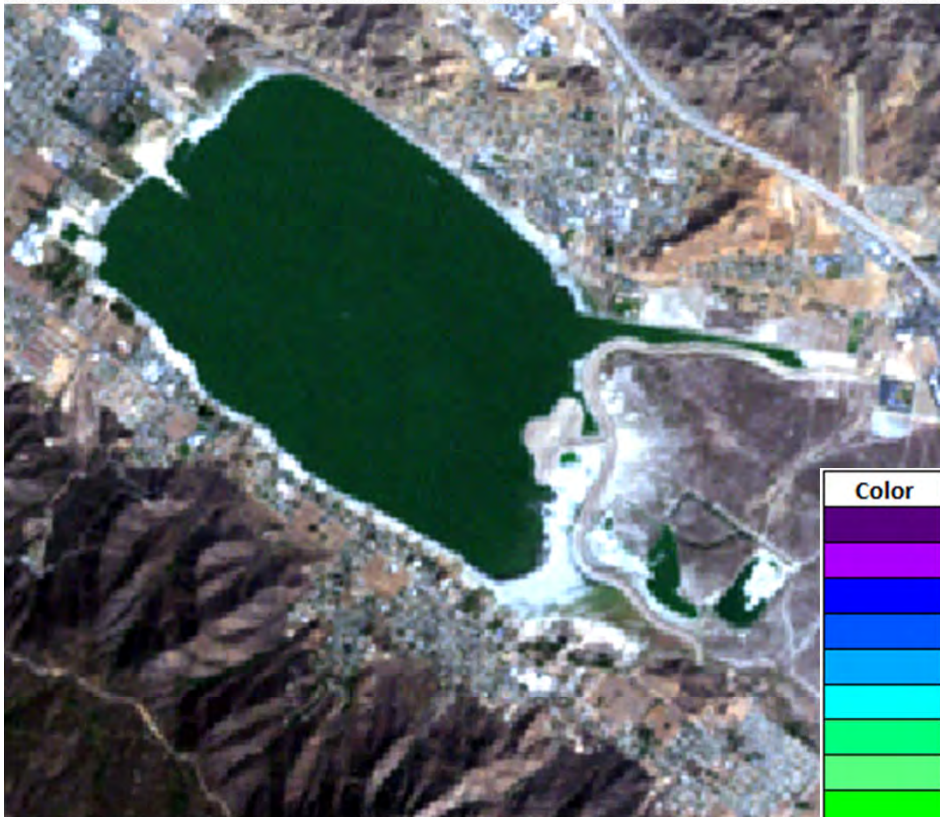
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	0.9
Light Purple	6-10	0.1
Blue	11-15	0.1
Light Blue	16-20	0.0
Cyan	21-25	0.0
Light Green	26-30	0.0
Green	31-35	0.0
Light Green	36-40	0.0
Bright Green	41-45	0.2
Yellow-Green	46-50	0.2
Yellow	51-75	4.0
Orange-Yellow	76-100	18.4
Orange	101-125	36.1
Red-Orange	126-150	27.5
Red	>150	12.4

Lake Elsinore 09/13/2002 Natural Color Image (Left) and Chl-a Scan (Right)



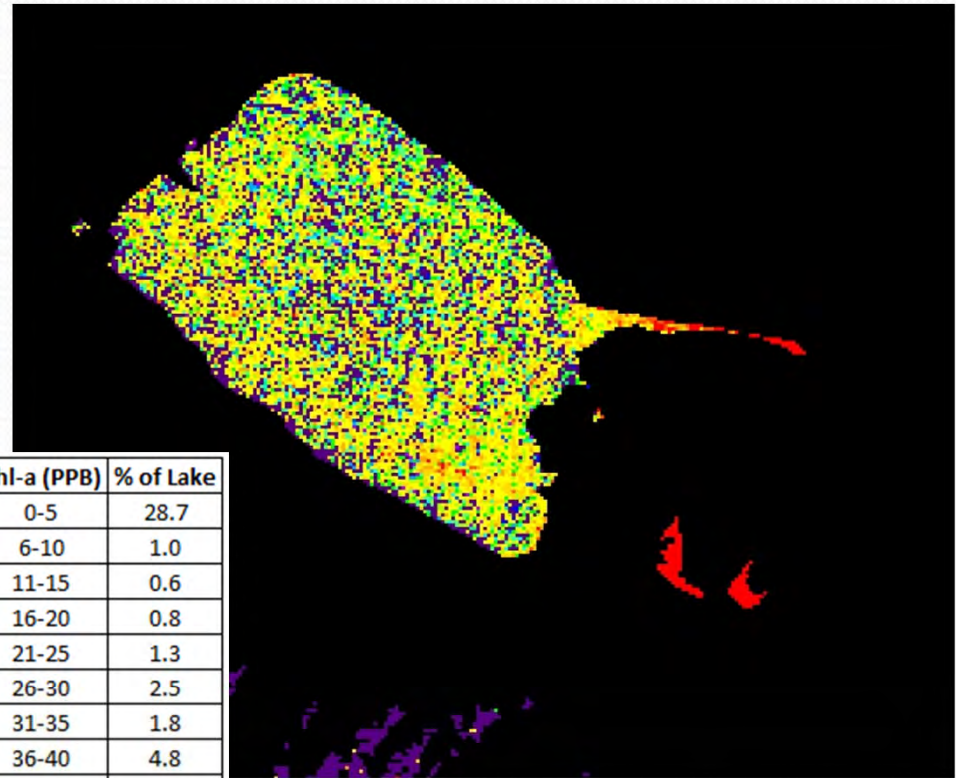
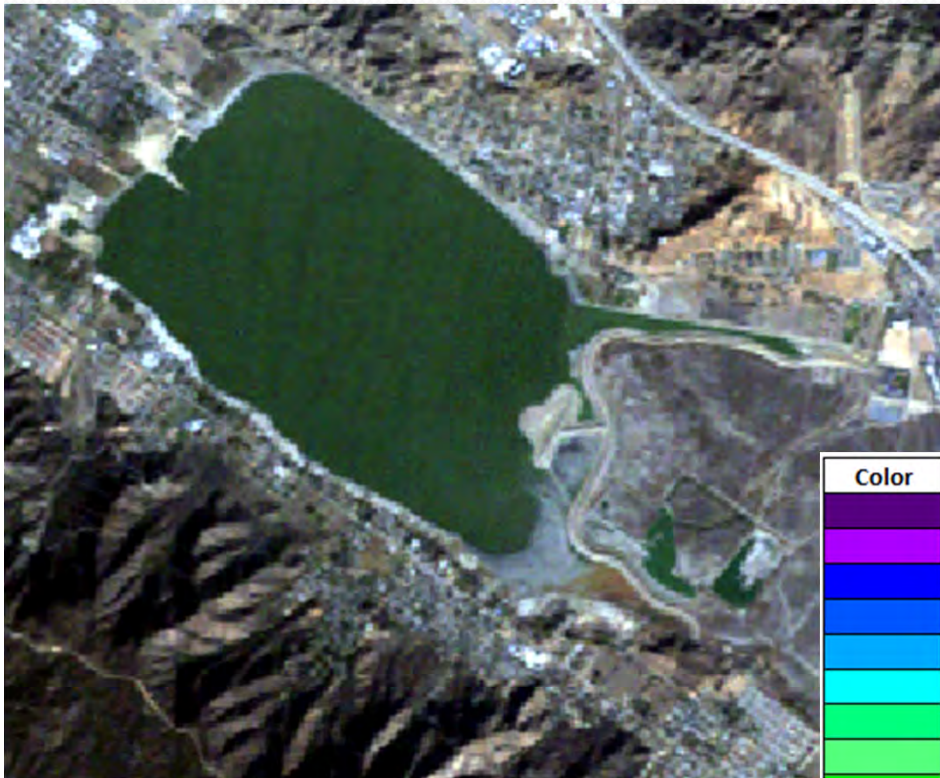
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	0.1
Purple	6-10	0.0
Blue-Violet	11-15	0.0
Blue	16-20	0.0
Light Blue	21-25	0.0
Cyan	26-30	0.0
Green-Cyan	31-35	0.0
Green	36-40	0.0
Light Green	41-45	0.0
Yellow-Green	46-50	0.0
Yellow	51-75	0.3
Orange-Yellow	76-100	0.5
Orange	101-125	1.5
Red-Orange	126-150	3.8
Red	>150	93.8

Lake Elsinore 10/07/2002 Natural Color Image (Left) and Chl-a Scan (Right)



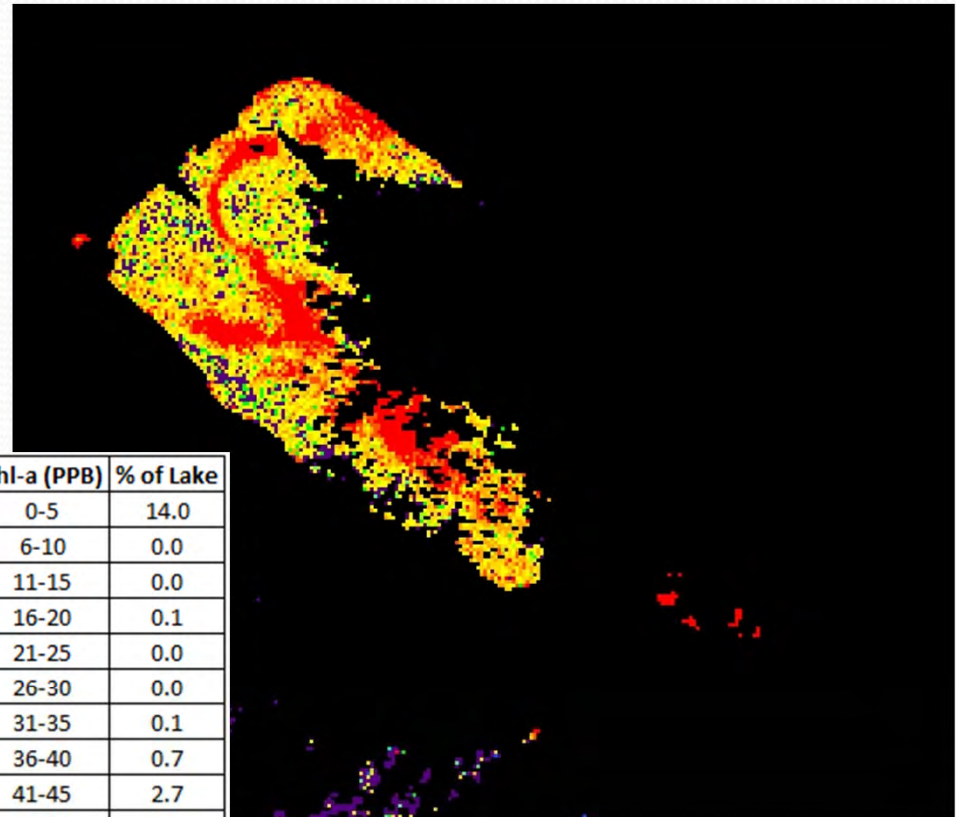
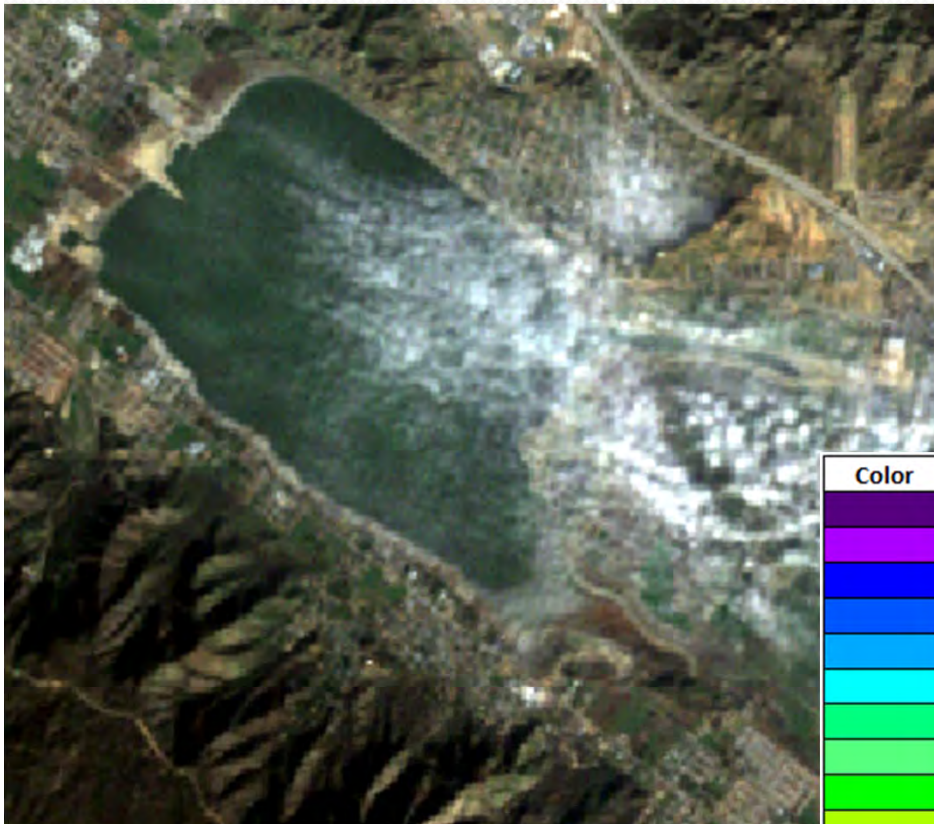
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	1.6
Purple	6-10	0.0
Blue-Purple	11-15	0.0
Blue	16-20	0.0
Light Blue	21-25	0.0
Cyan	26-30	0.0
Green-Cyan	31-35	0.0
Green	36-40	0.1
Light Green	41-45	0.2
Yellow-Green	46-50	0.3
Yellow	51-75	2.5
Orange-Yellow	76-100	6.0
Orange	101-125	11.7
Dark Orange	126-150	17.8
Red	>150	59.7

Lake Elsinore 12/02/2002 Natural Color Image (Left) and Chl-a Scan (Right)



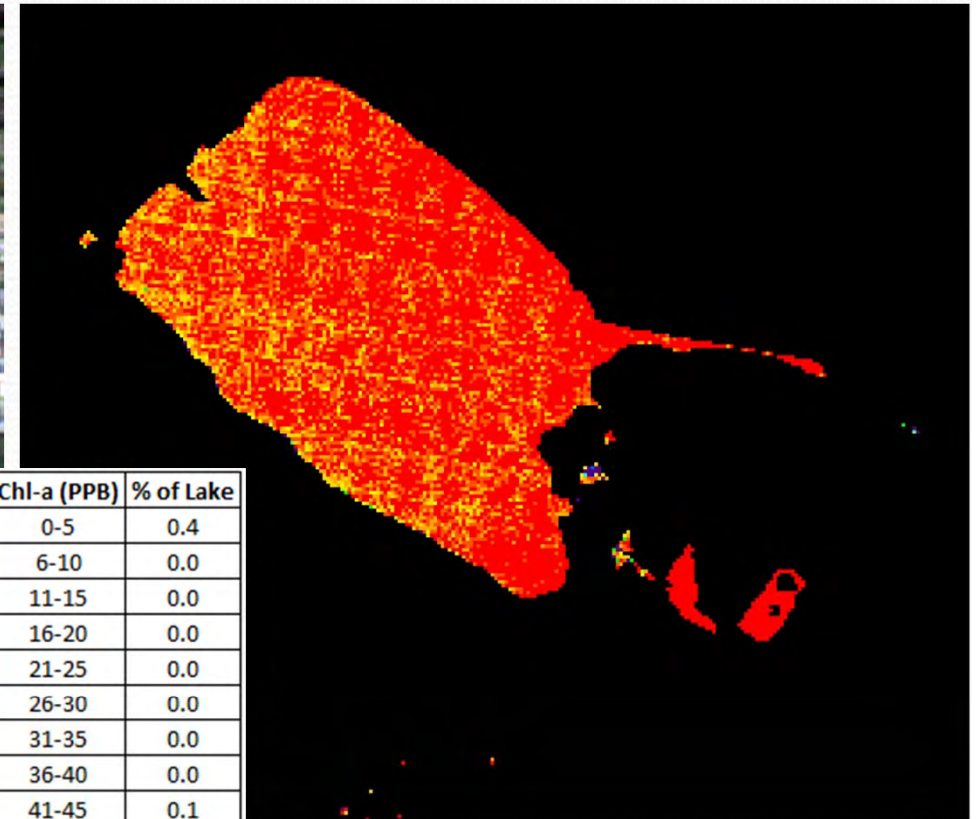
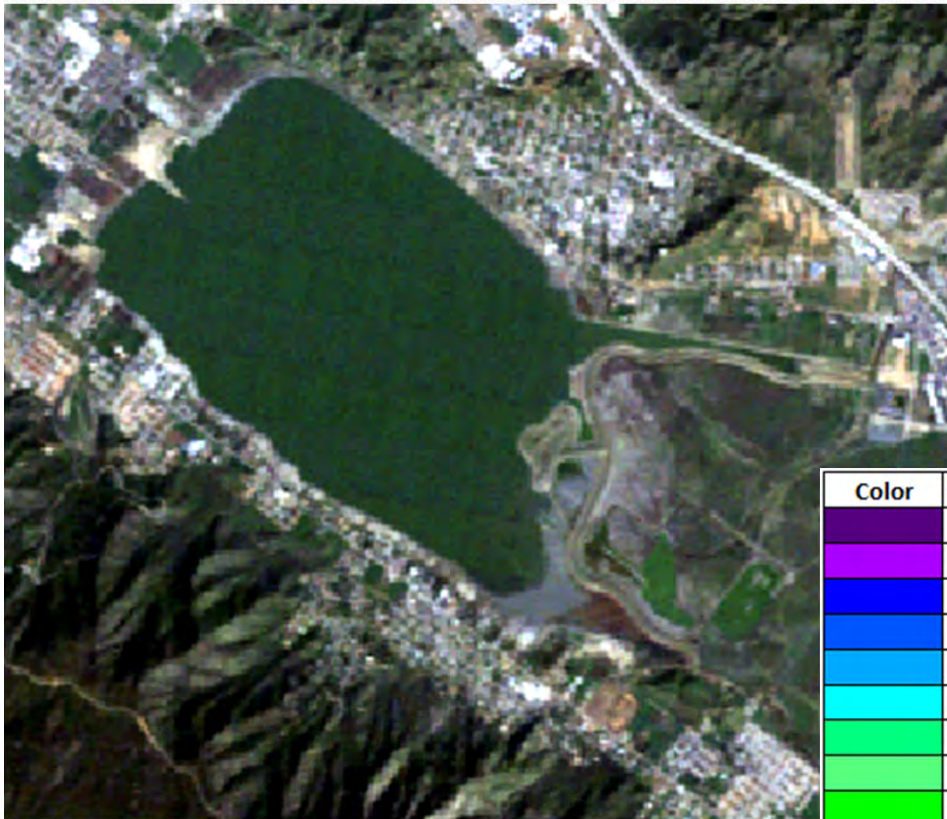
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	28.7
Light Purple	6-10	1.0
Blue	11-15	0.6
Light Blue	16-20	0.8
Cyan	21-25	1.3
Light Cyan	26-30	2.5
Green	31-35	1.8
Light Green	36-40	4.8
Bright Green	41-45	6.2
Yellow-Green	46-50	7.5
Yellow	51-75	28.2
Orange	76-100	11.5
Light Orange	101-125	2.5
Red-Orange	126-150	0.8
Red	>150	1.9

Lake Elsinore 01/11/2003 Natural Color Image (Left) and Chl-a Scan (Right)



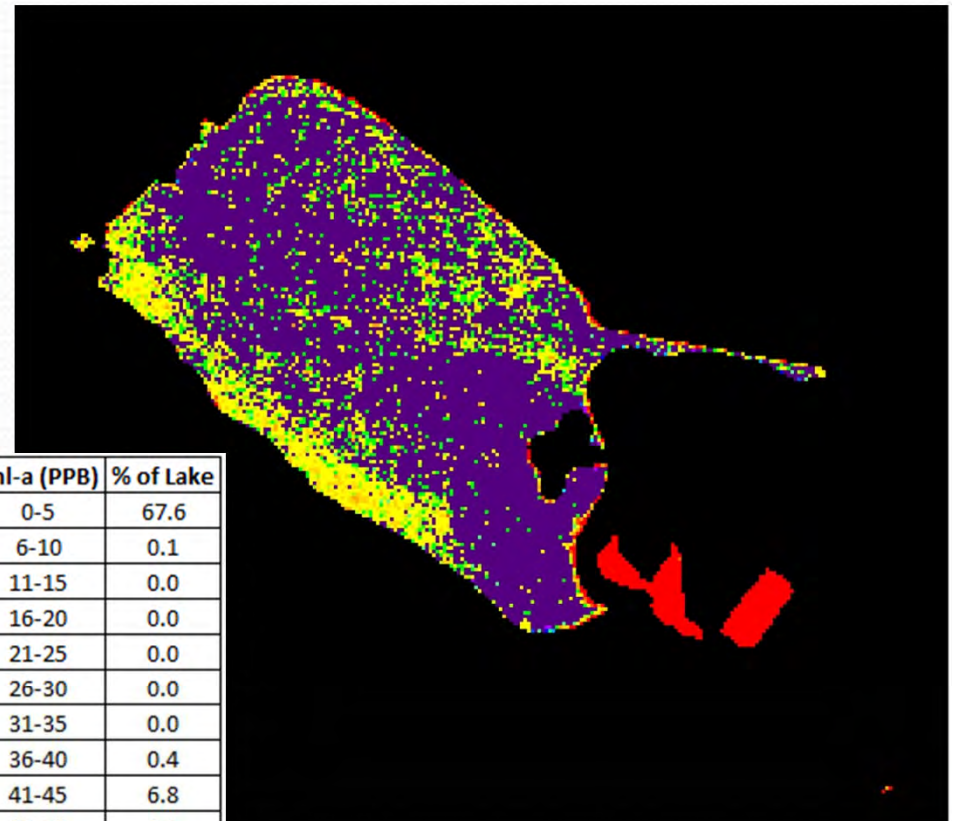
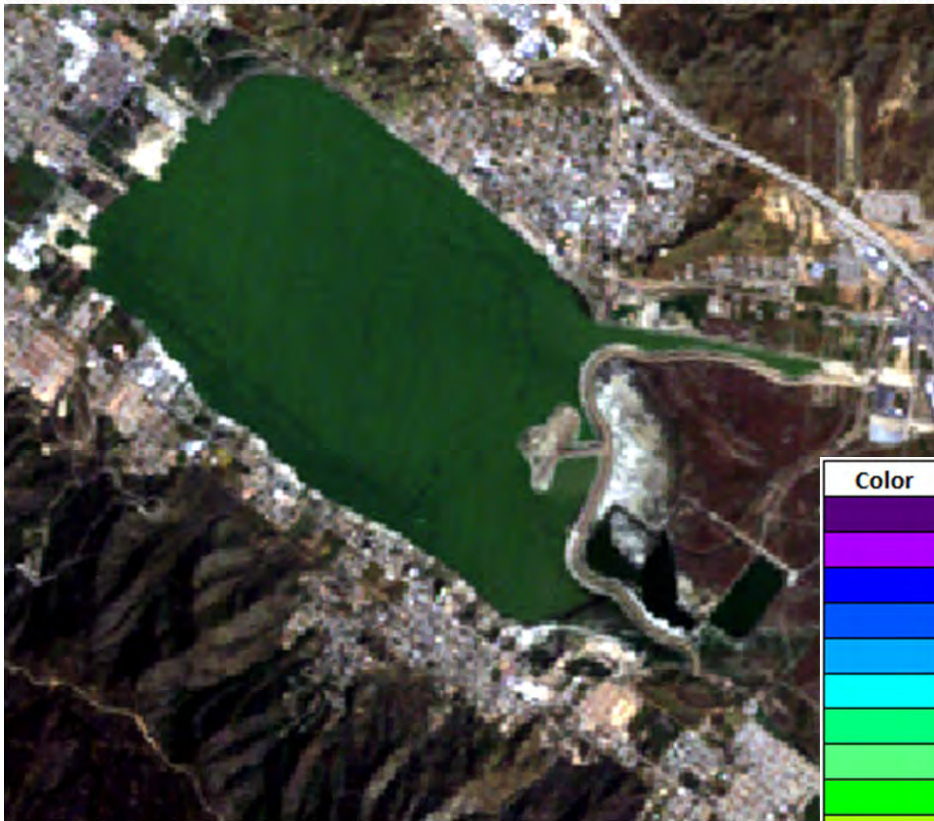
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	14.0
Light Purple	6-10	0.0
Blue	11-15	0.0
Light Blue	16-20	0.1
Cyan	21-25	0.0
Green	26-30	0.0
Light Green	31-35	0.1
Yellow-Green	36-40	0.7
Yellow	41-45	2.7
Light Yellow	46-50	2.9
Yellow-Orange	51-75	19.6
Orange	76-100	20.0
Light Orange	101-125	13.4
Red-Orange	126-150	9.3
Red	>150	17.2

Lake Elsinore 02/20/2003 Natural Color Image (Left) and Chl-a Scan (Right)



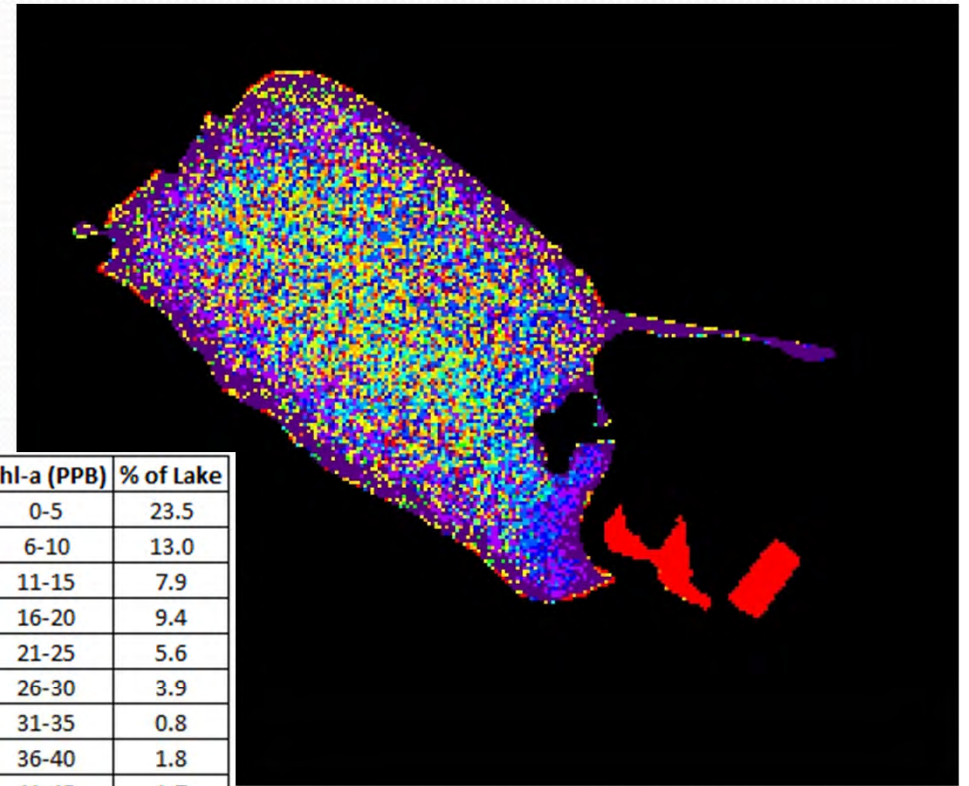
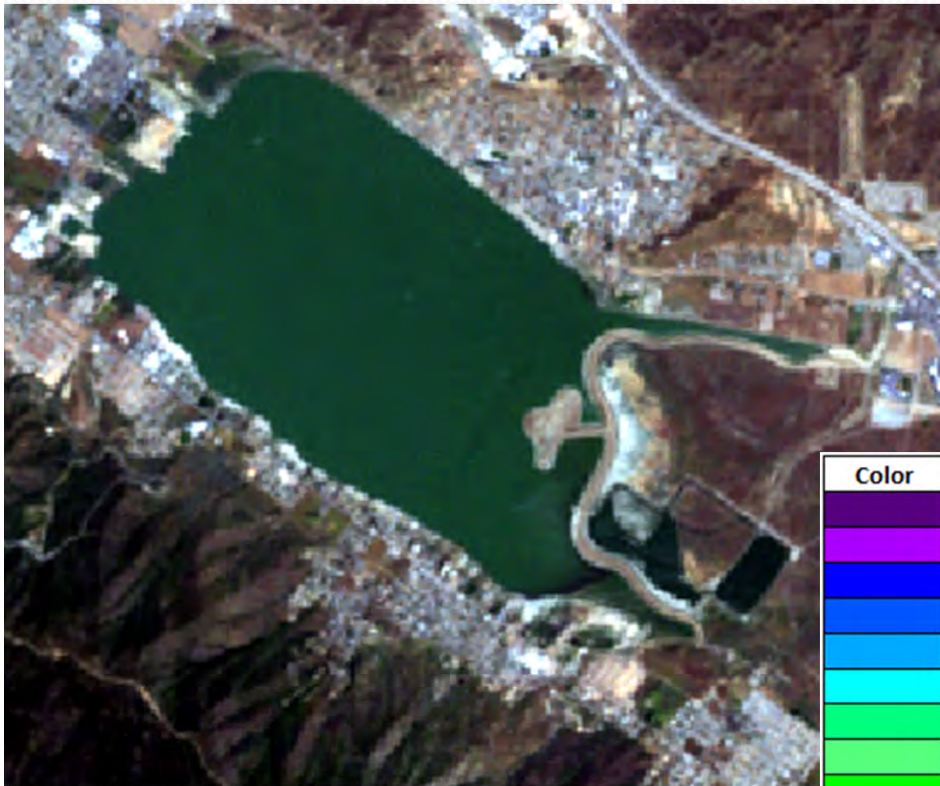
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	0.4
Light Purple	6-10	0.0
Blue	11-15	0.0
Light Blue	16-20	0.0
Cyan	21-25	0.0
Light Green	26-30	0.0
Green	31-35	0.0
Light Green	36-40	0.0
Bright Green	41-45	0.1
Yellow-Green	46-50	0.1
Yellow	51-75	0.8
Orange-Yellow	76-100	4.3
Orange	101-125	12.2
Dark Orange	126-150	22.8
Red	>150	59.4

Lake Elsinore 04/09/2003 Natural Color Image (Left) and Chl-a Scan (Right)



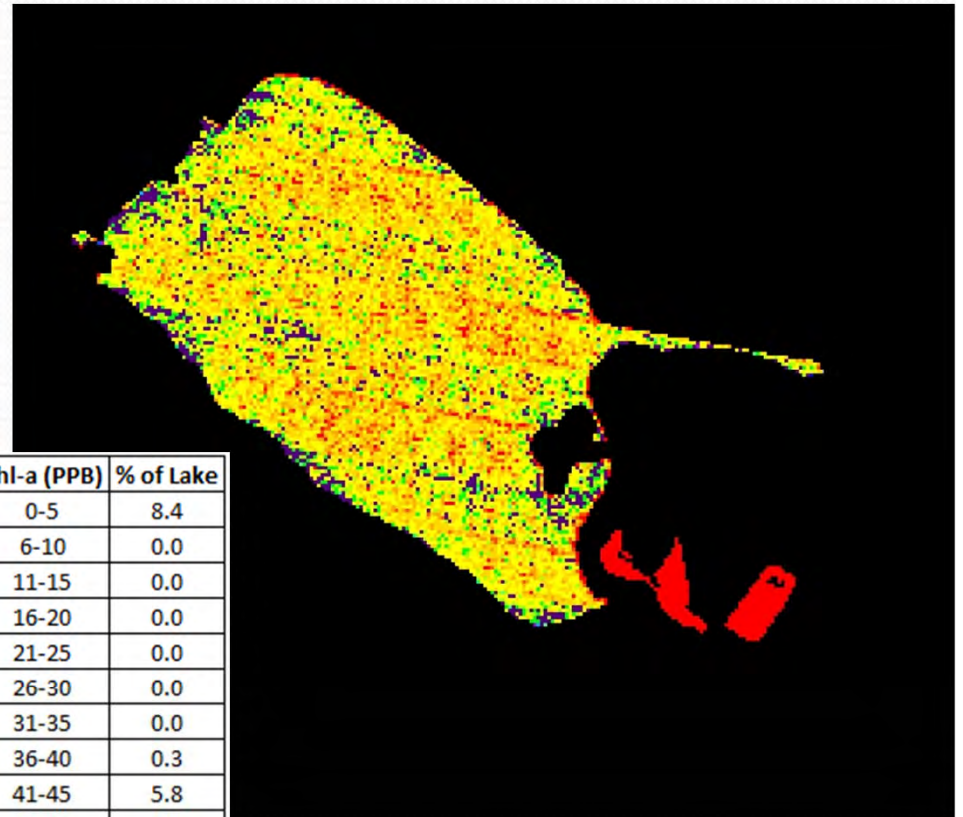
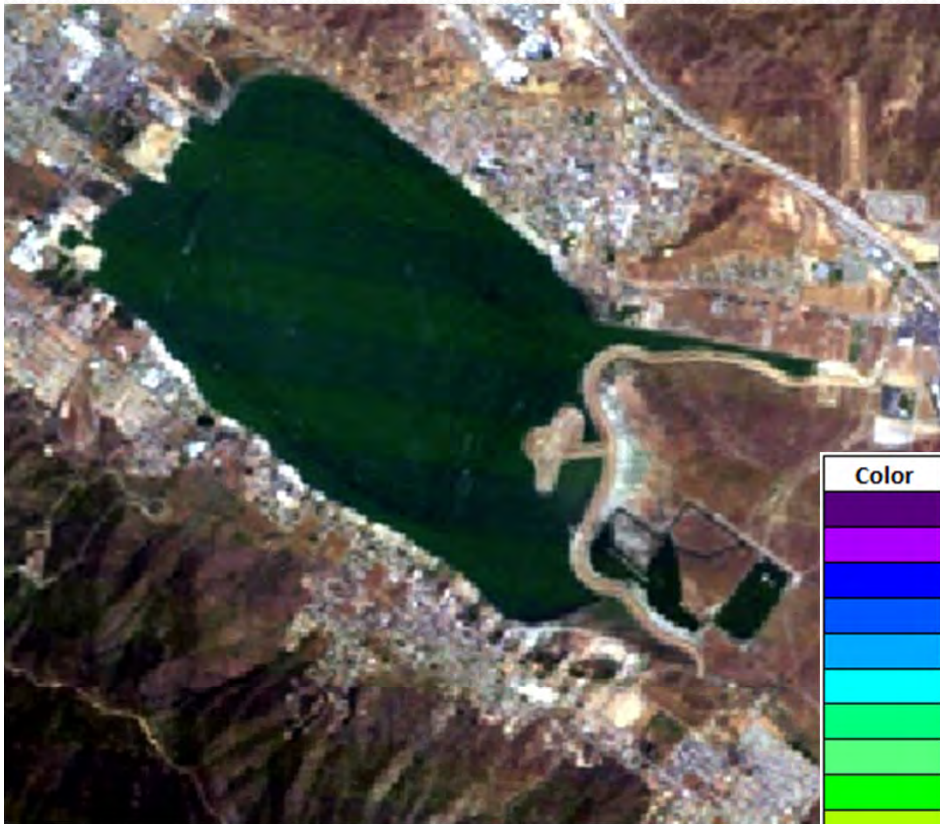
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	67.6
Light Purple	6-10	0.1
Blue	11-15	0.0
Light Blue	16-20	0.0
Cyan	21-25	0.0
Light Green	26-30	0.0
Green	31-35	0.0
Light Green	36-40	0.4
Yellow-Green	41-45	6.8
Yellow	46-50	4.8
Light Yellow	51-75	12.3
Orange	76-100	2.3
Light Orange	101-125	0.7
Red-Orange	126-150	0.3
Red	>150	4.7

Lake Elsinore 05/19/2003 Natural Color Image (Left) and Chl-a Scan (Right)



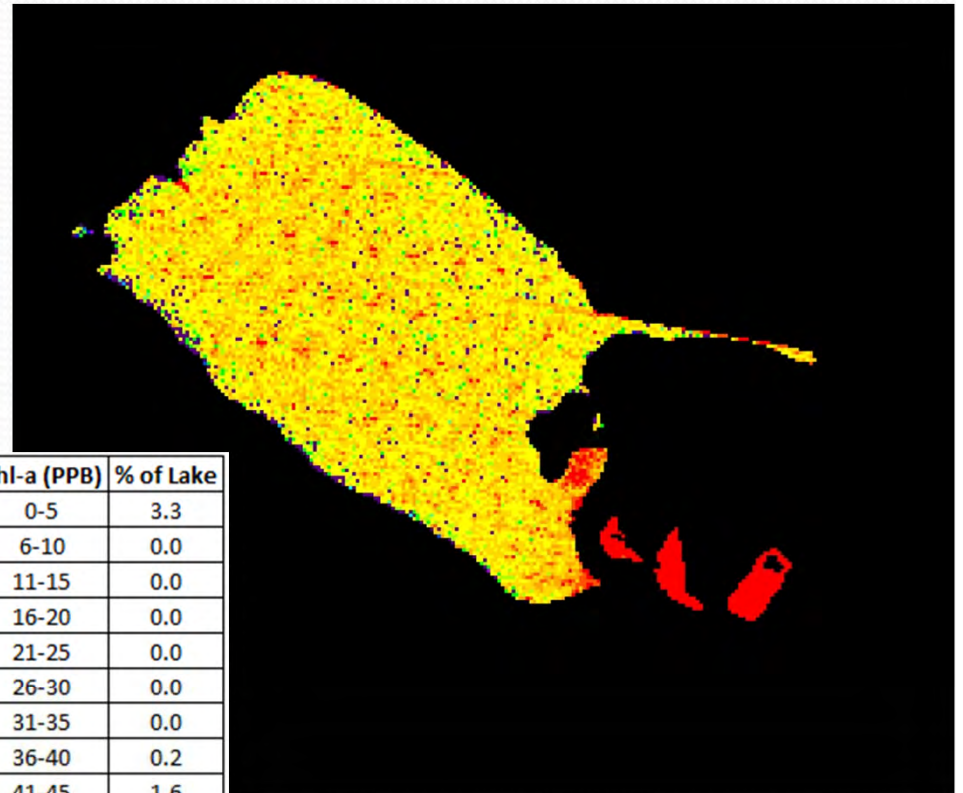
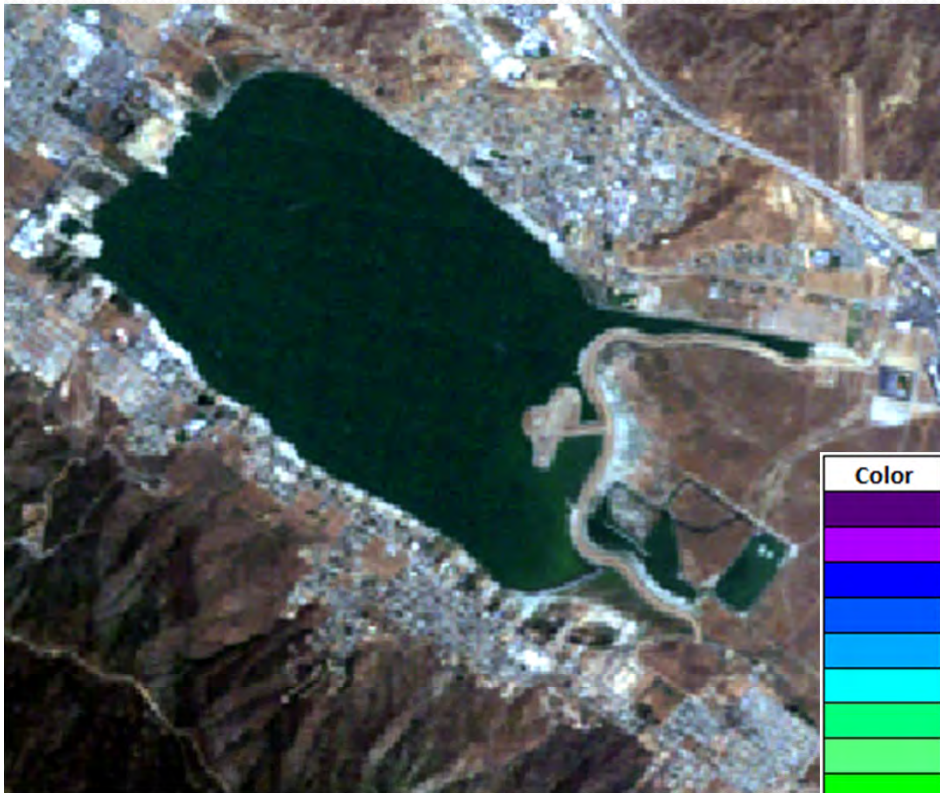
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	23.5
Medium Purple	6-10	13.0
Blue	11-15	7.9
Light Blue	16-20	9.4
Cyan	21-25	5.6
Light Cyan	26-30	3.9
Green	31-35	0.8
Light Green	36-40	1.8
Bright Green	41-45	1.7
Yellow-Green	46-50	4.6
Yellow	51-75	7.8
Orange-Yellow	76-100	4.5
Orange	101-125	6.4
Red-Orange	126-150	2.3
Red	>150	6.7

Lake Elsinore 06/28/2003 Natural Color Image (Left) and Chl-a Scan (Right)



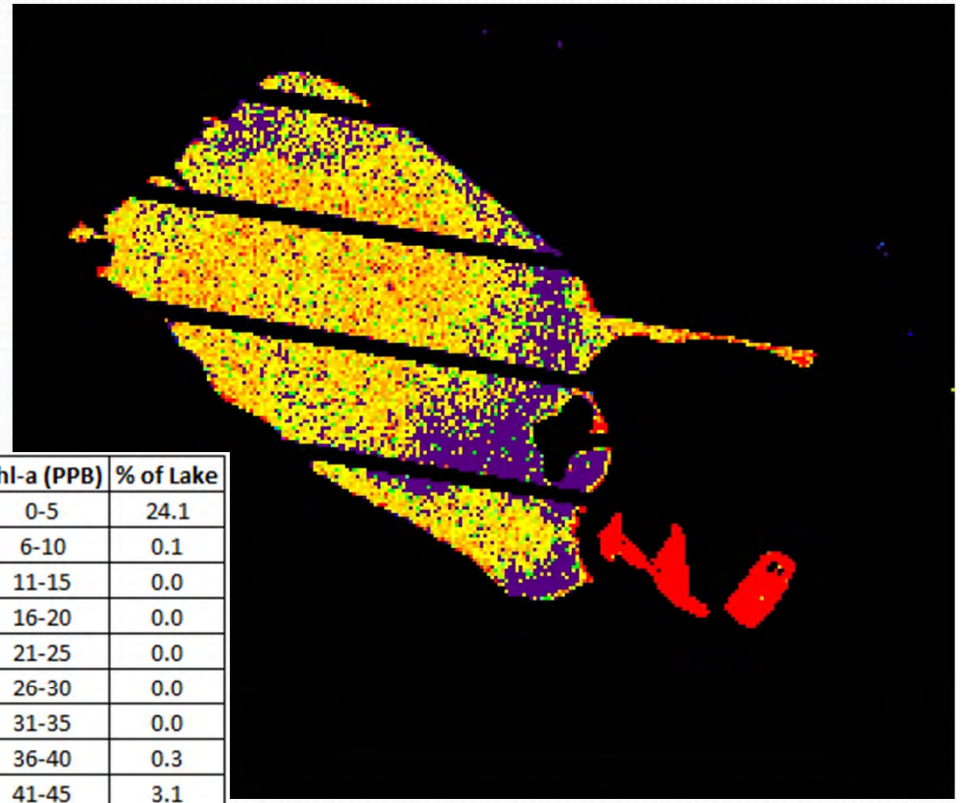
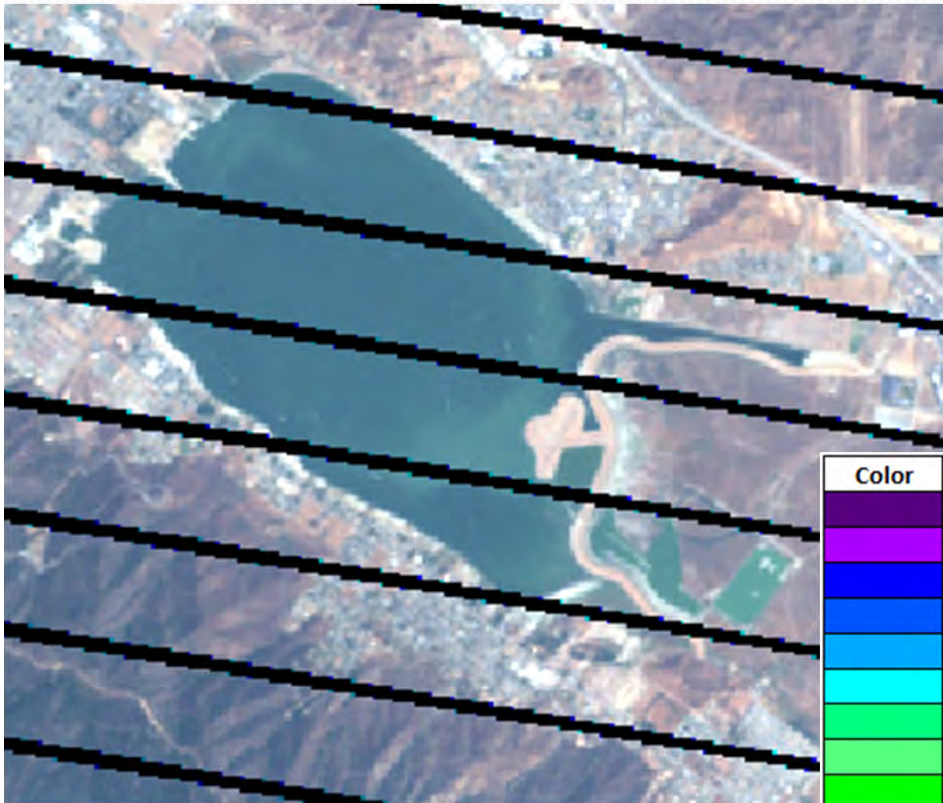
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	8.4
Purple	6-10	0.0
Blue-Violet	11-15	0.0
Blue	16-20	0.0
Cyan-Blue	21-25	0.0
Cyan	26-30	0.0
Green-Cyan	31-35	0.0
Green	36-40	0.3
Light Green	41-45	5.8
Yellow-Green	46-50	5.9
Yellow	51-75	34.2
Orange-Yellow	76-100	24.9
Orange	101-125	10.5
Red-Orange	126-150	4.0
Red	>150	5.9

Lake Elsinore 07/14/2003 Natural Color Image (Left) and Chl-a Scan (Right)



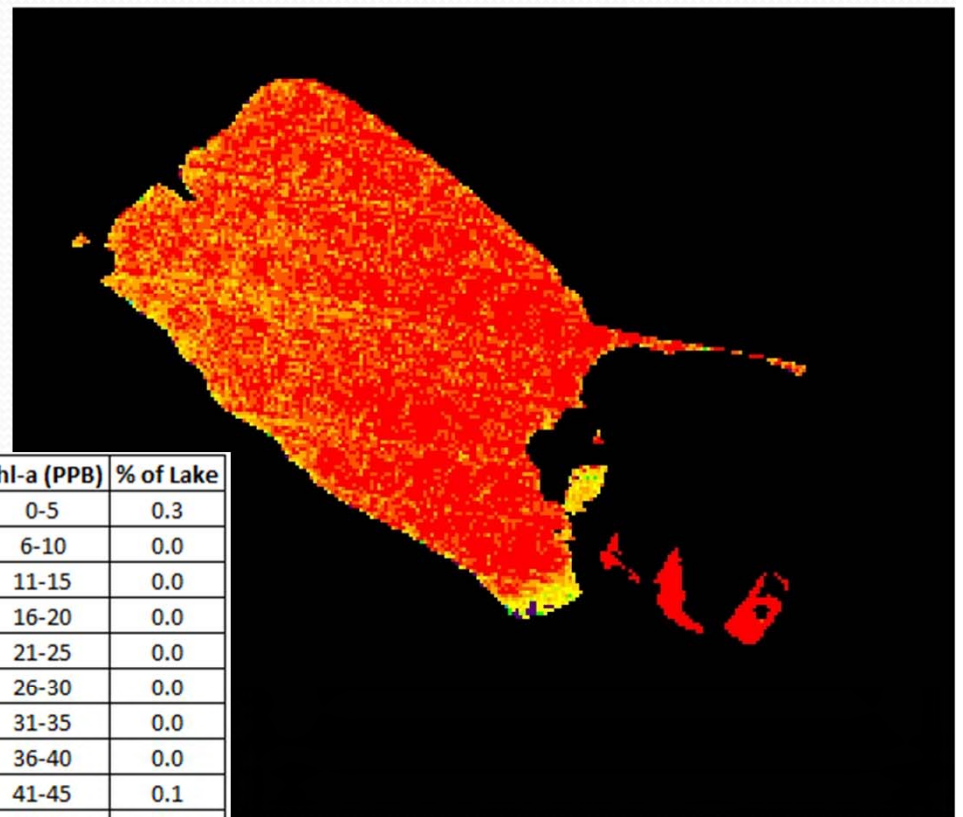
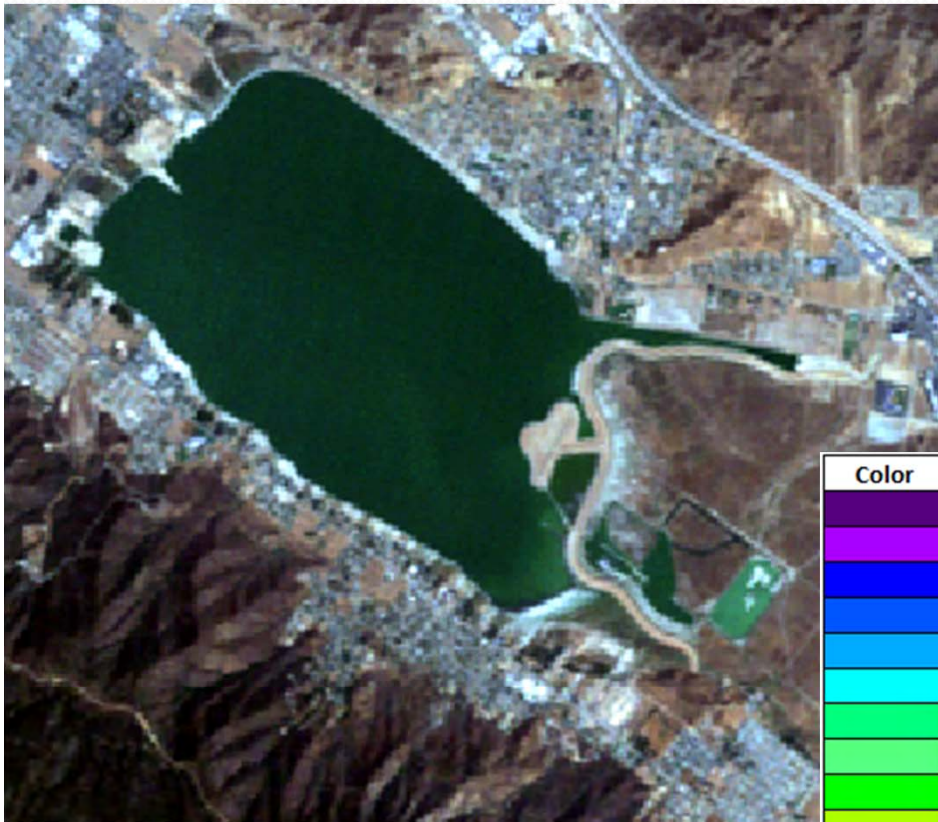
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	3.3
Medium Purple	6-10	0.0
Blue	11-15	0.0
Light Blue	16-20	0.0
Cyan	21-25	0.0
Light Green	26-30	0.0
Green	31-35	0.0
Light Green	36-40	0.2
Yellow-Green	41-45	1.6
Yellow	46-50	4.3
Yellow	51-75	35.8
Orange	76-100	34.4
Orange	101-125	13.1
Red-Orange	126-150	2.8
Red	>150	4.4

Lake Elsinore 08/23/2003 Natural Color Image (Left) and Chl-a Scan (Right)



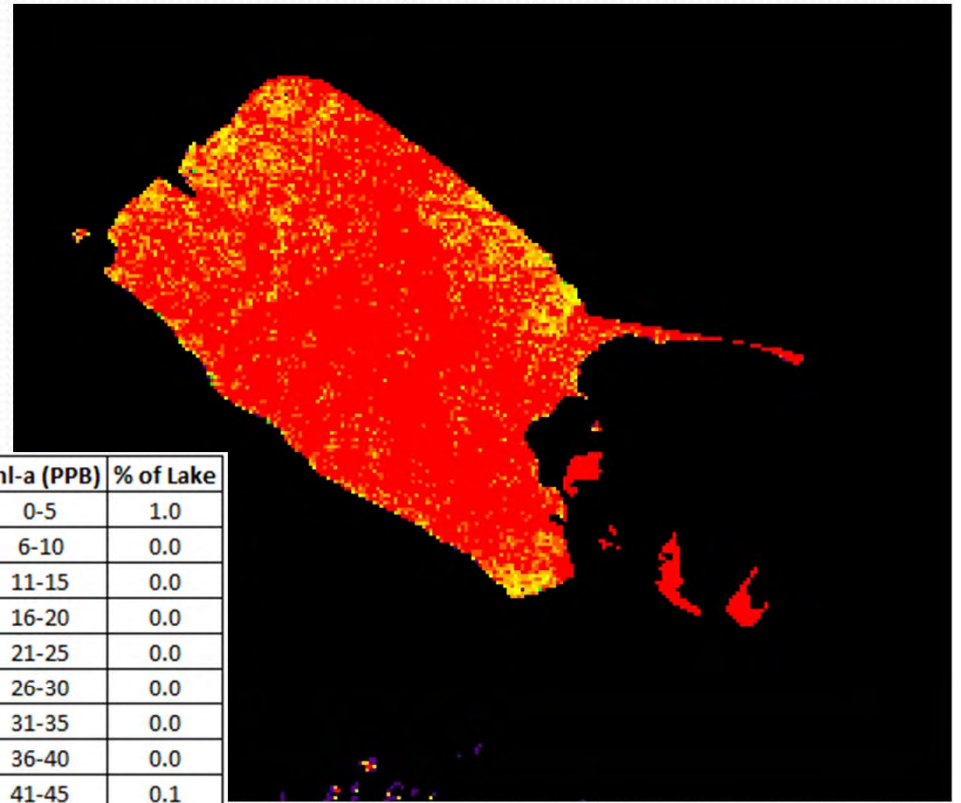
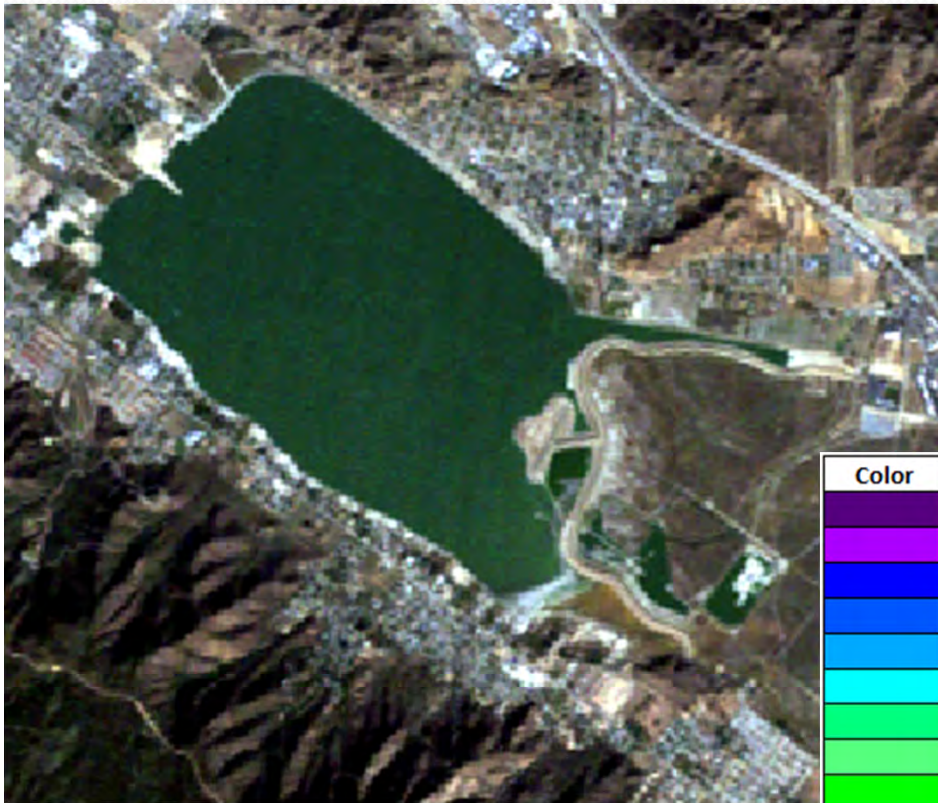
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	24.1
Light Purple	6-10	0.1
Blue	11-15	0.0
Light Blue	16-20	0.0
Cyan	21-25	0.0
Light Green	26-30	0.0
Green	31-35	0.0
Light Green	36-40	0.3
Yellow-Green	41-45	3.1
Yellow	46-50	4.5
Light Yellow	51-75	23.0
Orange	76-100	21.8
Dark Orange	101-125	12.7
Red-Orange	126-150	3.7
Red	>150	6.7

Lake Elsinore 09/16/2003 Natural Color Image (Left) and Chl-a Scan (Right)



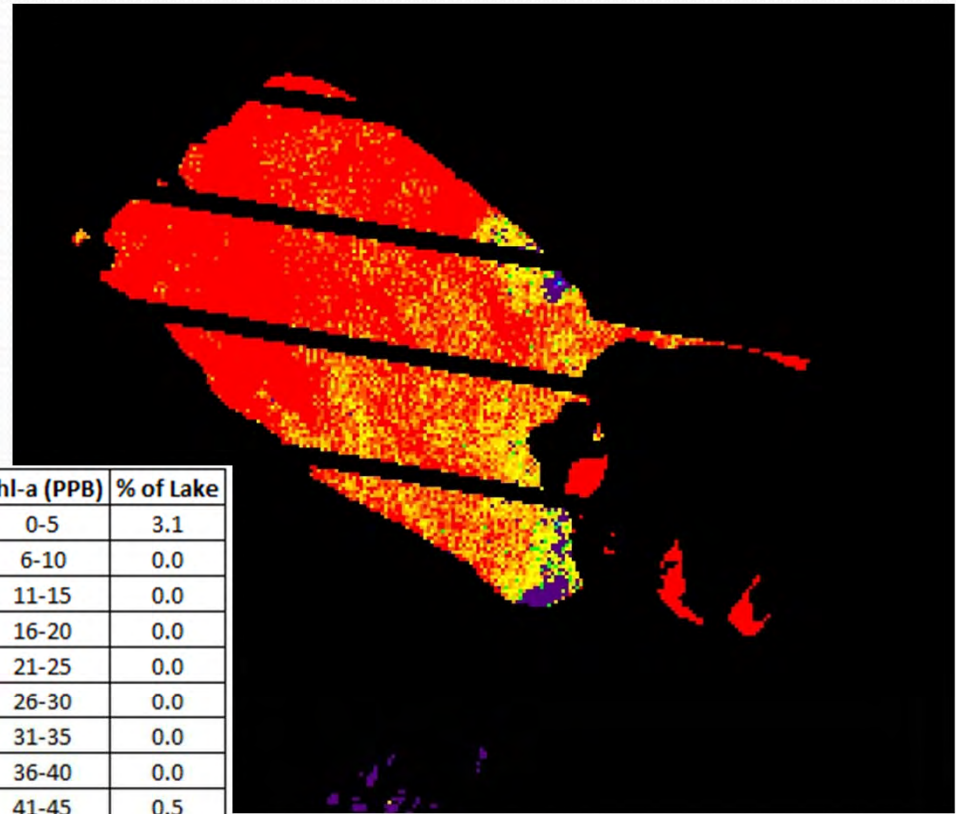
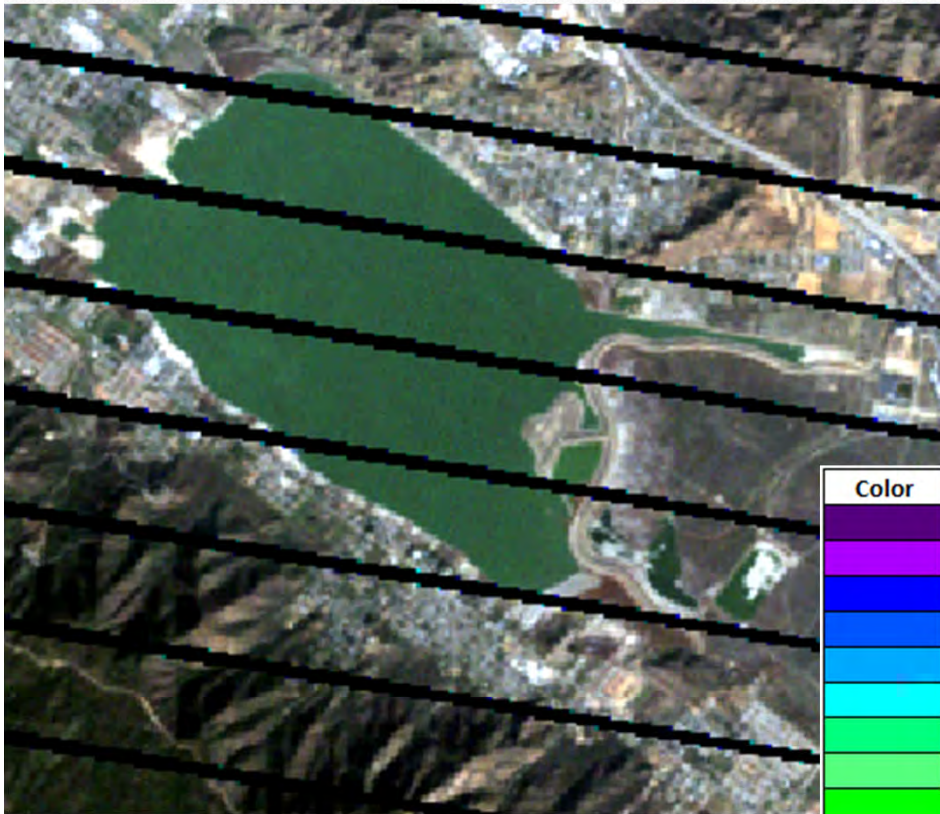
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	0.3
Medium Purple	6-10	0.0
Blue	11-15	0.0
Light Blue	16-20	0.0
Cyan	21-25	0.0
Light Green	26-30	0.0
Green	31-35	0.0
Light Green	36-40	0.0
Bright Green	41-45	0.1
Yellow-Green	46-50	0.1
Yellow	51-75	1.0
Orange	76-100	3.0
Dark Orange	101-125	12.9
Red-Orange	126-150	29.6
Red	>150	53.1

Lake Elsinore 11/19/2003 Natural Color Image (Left) and Chl-a Scan (Right)



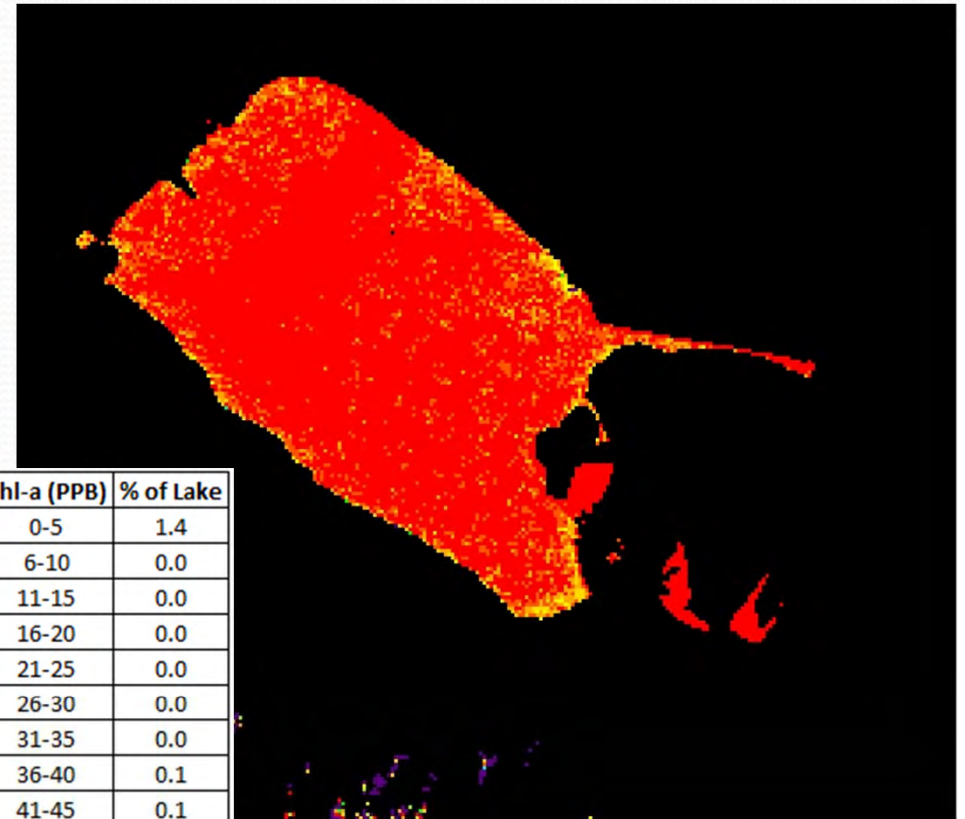
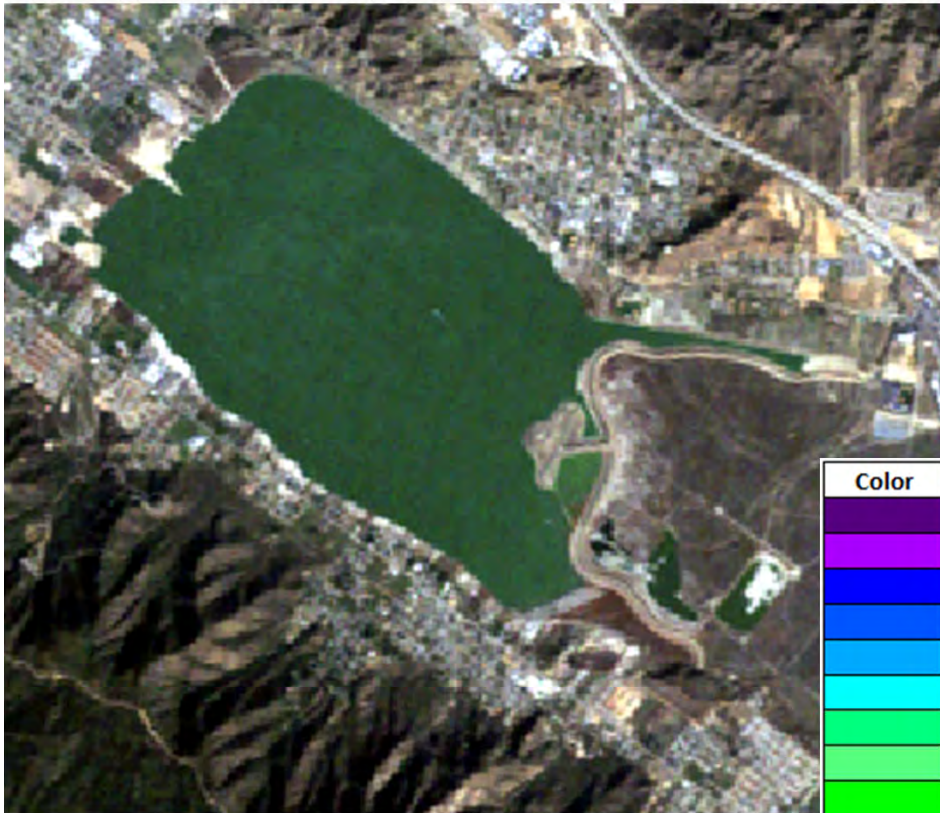
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	1.0
Purple	6-10	0.0
Blue-Purple	11-15	0.0
Blue	16-20	0.0
Light Blue	21-25	0.0
Cyan	26-30	0.0
Green-Cyan	31-35	0.0
Green	36-40	0.0
Light Green	41-45	0.1
Yellow-Green	46-50	0.1
Yellow	51-75	1.2
Orange-Yellow	76-100	3.4
Orange	101-125	7.7
Red-Orange	126-150	12.3
Red	>150	74.2

Lake Elsinore 01/30/2004 Natural Color Image (Left) and Chl-a Scan (Right)



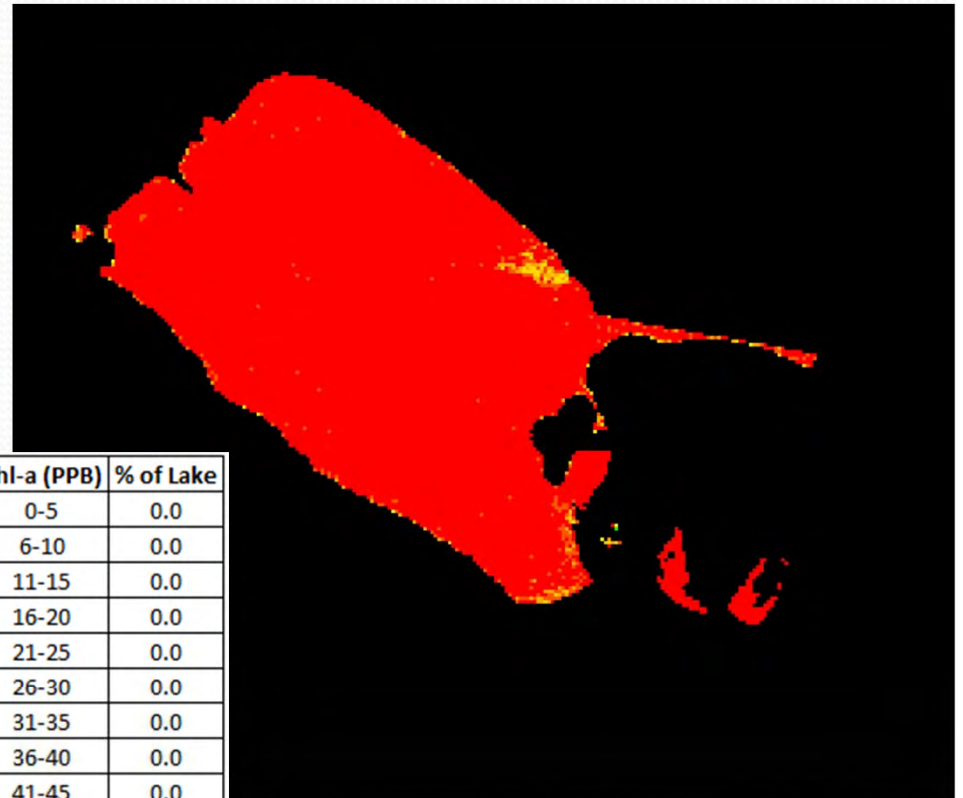
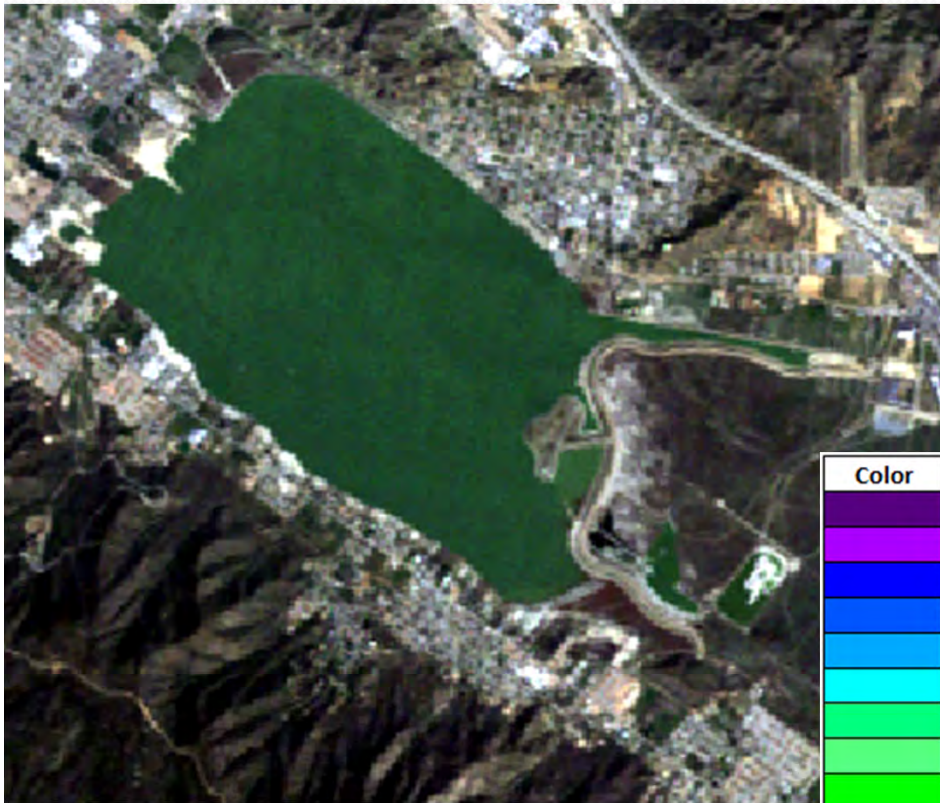
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	3.1
Medium Purple	6-10	0.0
Blue	11-15	0.0
Light Blue	16-20	0.0
Cyan	21-25	0.0
Green	26-30	0.0
Light Green	31-35	0.0
Yellow-Green	36-40	0.0
Yellow	41-45	0.5
Light Yellow	46-50	0.4
Yellow-Orange	51-75	3.3
Orange	76-100	7.0
Dark Orange	101-125	10.6
Red-Orange	126-150	14.5
Red	>150	60.5

Lake Elsinore 02/07/2004 Natural Color Image (Left) and Chl-a Scan (Right)



Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	1.4
Medium Purple	6-10	0.0
Blue	11-15	0.0
Light Blue	16-20	0.0
Cyan	21-25	0.0
Light Green	26-30	0.0
Green	31-35	0.0
Light Green	36-40	0.1
Yellow-Green	41-45	0.1
Yellow	46-50	0.1
Yellow	51-75	0.5
Orange	76-100	1.3
Orange	101-125	4.8
Red-Orange	126-150	12.3
Red	>150	79.4

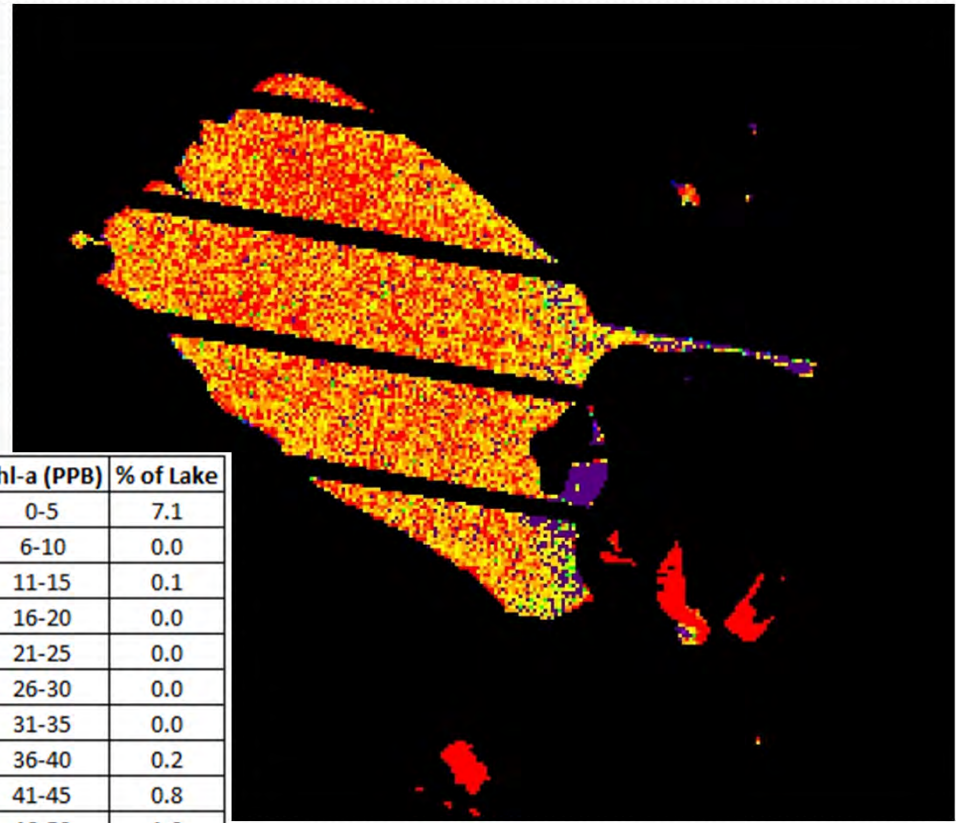
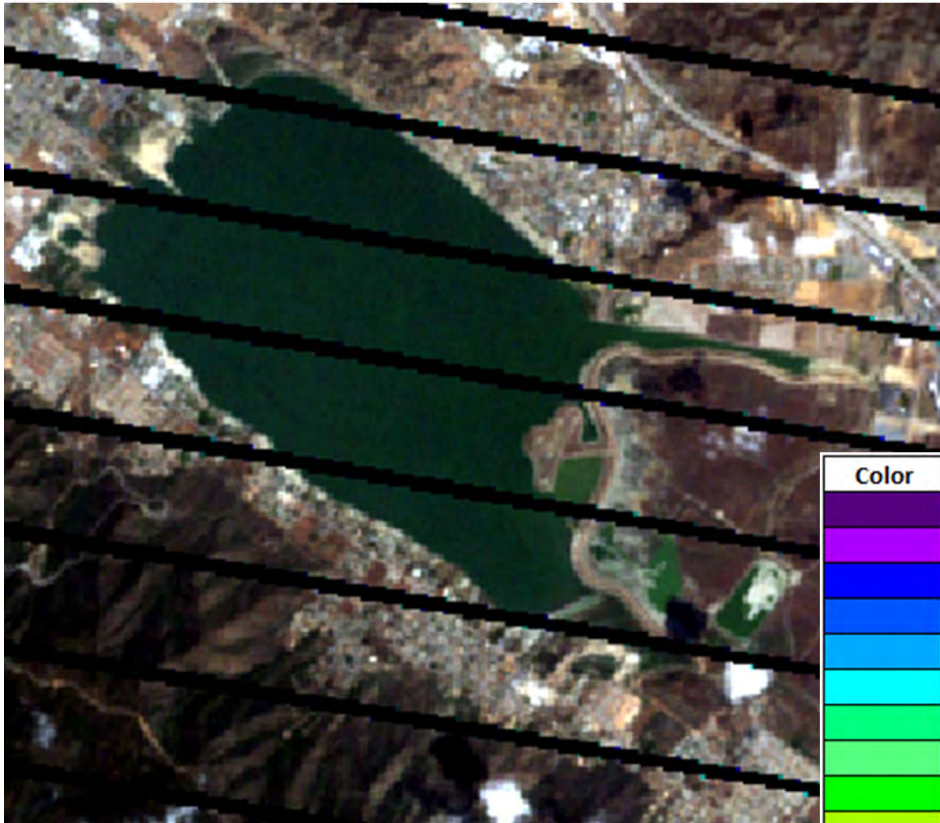
Lake Elsinore 03/10/2004 Natural Color Image (Left) and Chl-a Scan (Right)



Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	0.0
Medium Purple	6-10	0.0
Blue	11-15	0.0
Light Blue	16-20	0.0
Cyan	21-25	0.0
Light Green	26-30	0.0
Green	31-35	0.0
Light Green	36-40	0.0
Bright Green	41-45	0.0
Yellow-Green	46-50	0.0
Yellow	51-75	0.1
Orange	76-100	0.4
Dark Orange	101-125	0.9
Red-Orange	126-150	2.1
Red	>150	96.5

Lake Elsinore 04/19/2004 Natural Color Image (Left) and Chl-a Scan (Right)

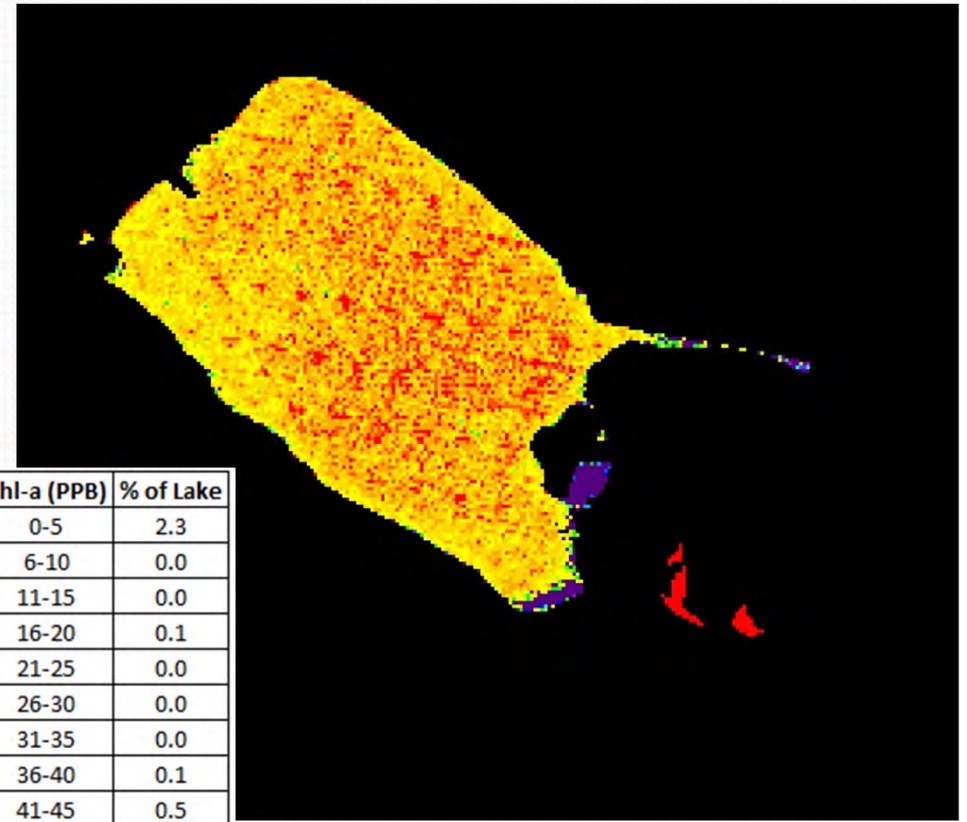
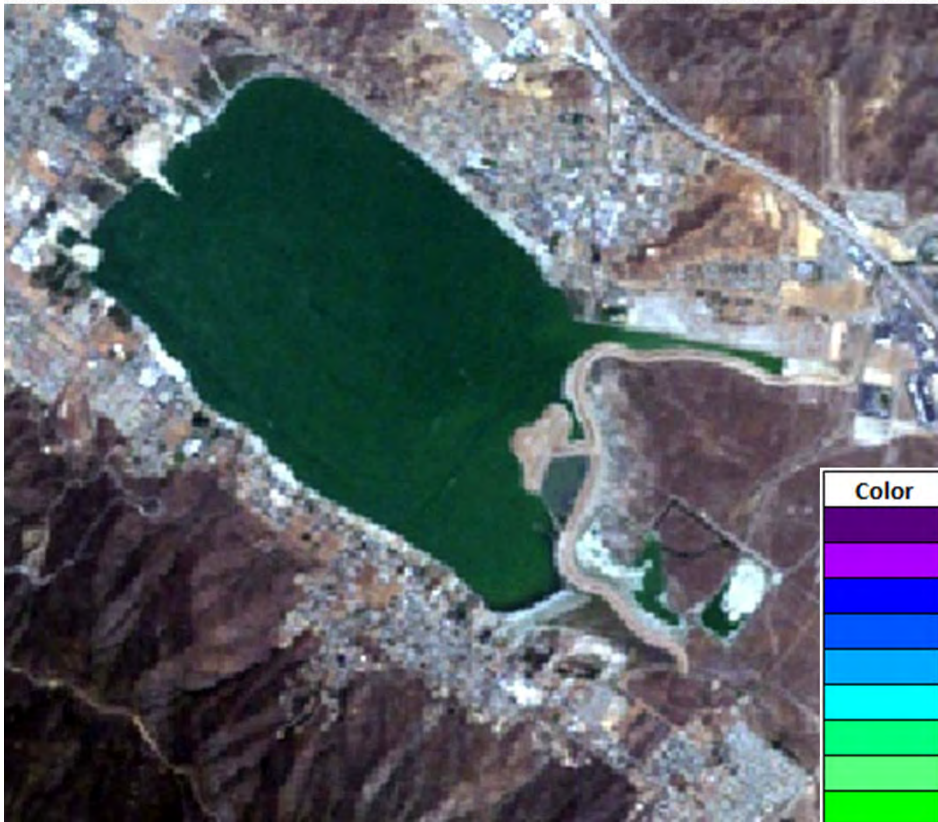
(Elsinore data taken on satellite overpass date)



Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	7.1
Light Purple	6-10	0.0
Blue	11-15	0.1
Light Blue	16-20	0.0
Cyan	21-25	0.0
Green	26-30	0.0
Light Green	31-35	0.0
Yellow-Green	36-40	0.2
Yellow	41-45	0.8
Light Yellow	46-50	1.0
Yellow-Orange	51-75	10.5
Orange	76-100	14.6
Light Orange	101-125	20.1
Dark Orange	126-150	17.1
Red	>150	28.4

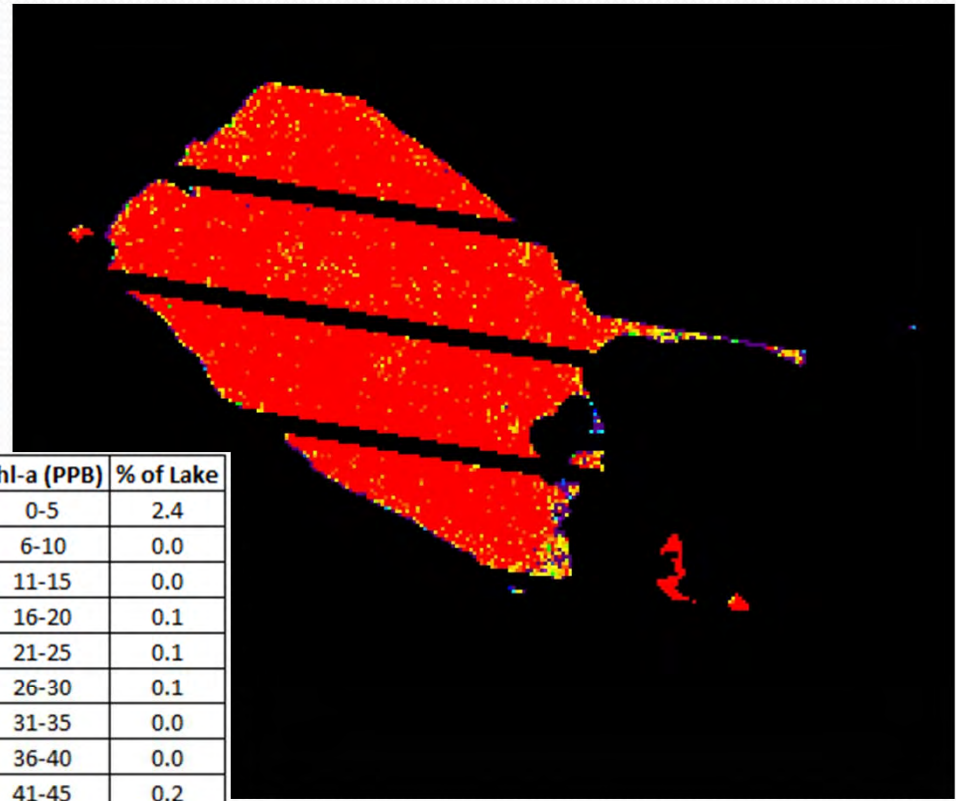
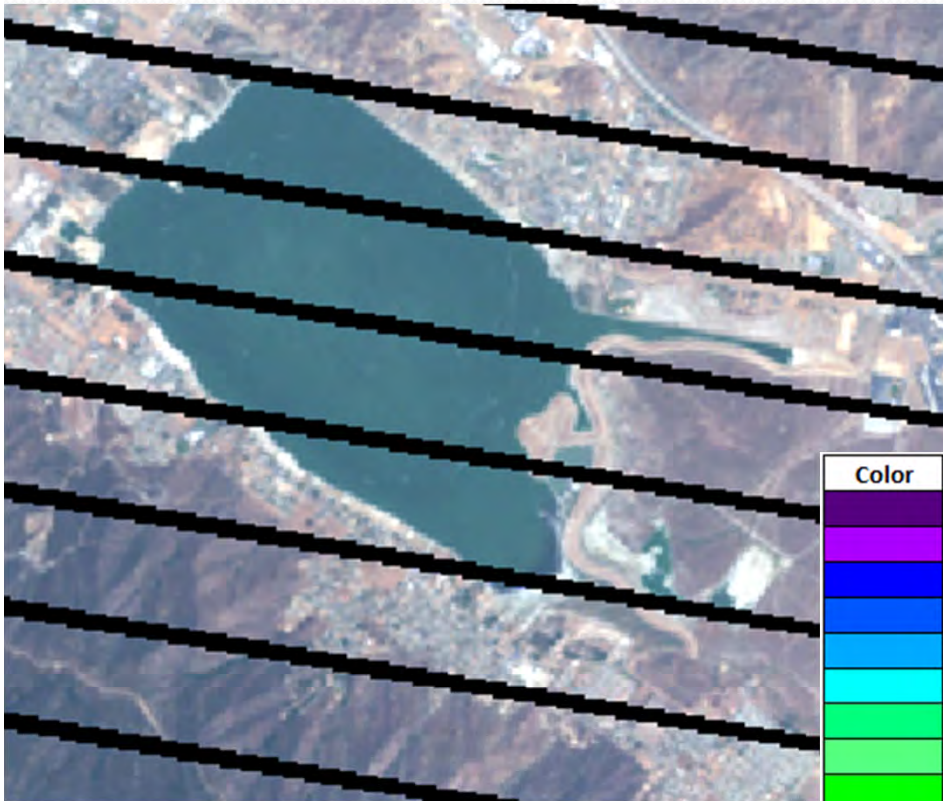
Lake Elsinore 06/14/2004 Natural Color Image (Left) and Chl-a Scan (Right)

(Elsinore data taken on satellite overpass date)



Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	2.3
Medium Purple	6-10	0.0
Blue	11-15	0.0
Light Blue	16-20	0.1
Cyan	21-25	0.0
Light Green	26-30	0.0
Green	31-35	0.0
Light Green	36-40	0.1
Bright Green	41-45	0.5
Yellow-Green	46-50	0.7
Yellow	51-75	14.4
Orange	76-100	36.1
Dark Orange	101-125	27.7
Red-Orange	126-150	11.5
Red	>150	6.5

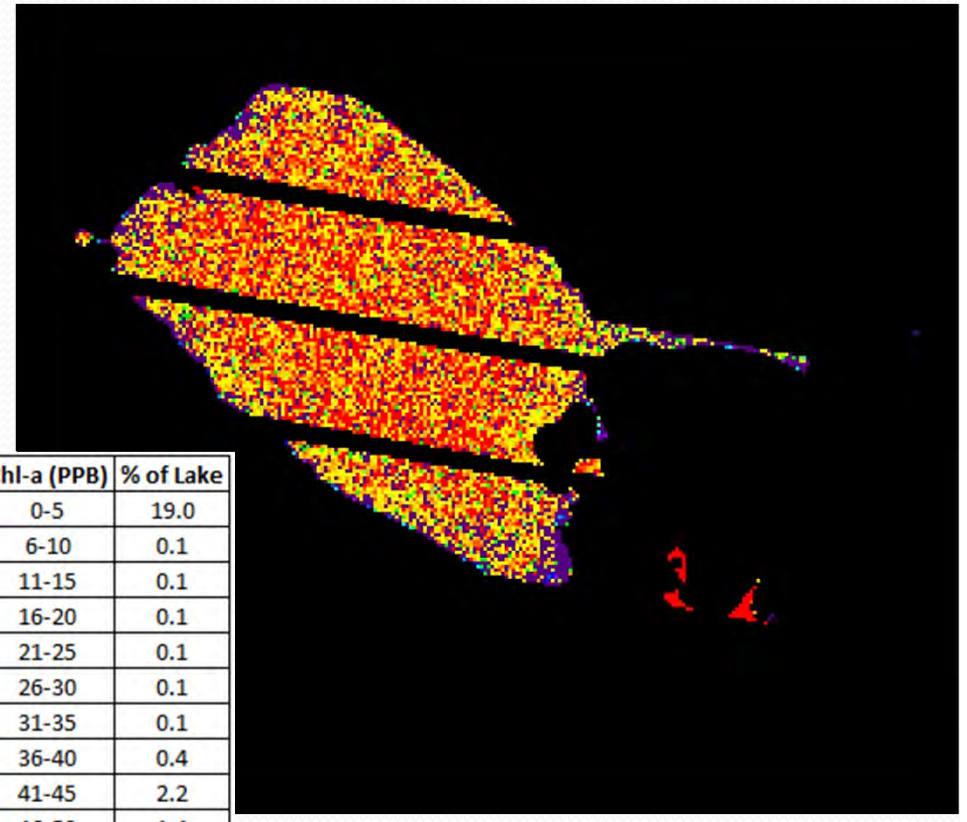
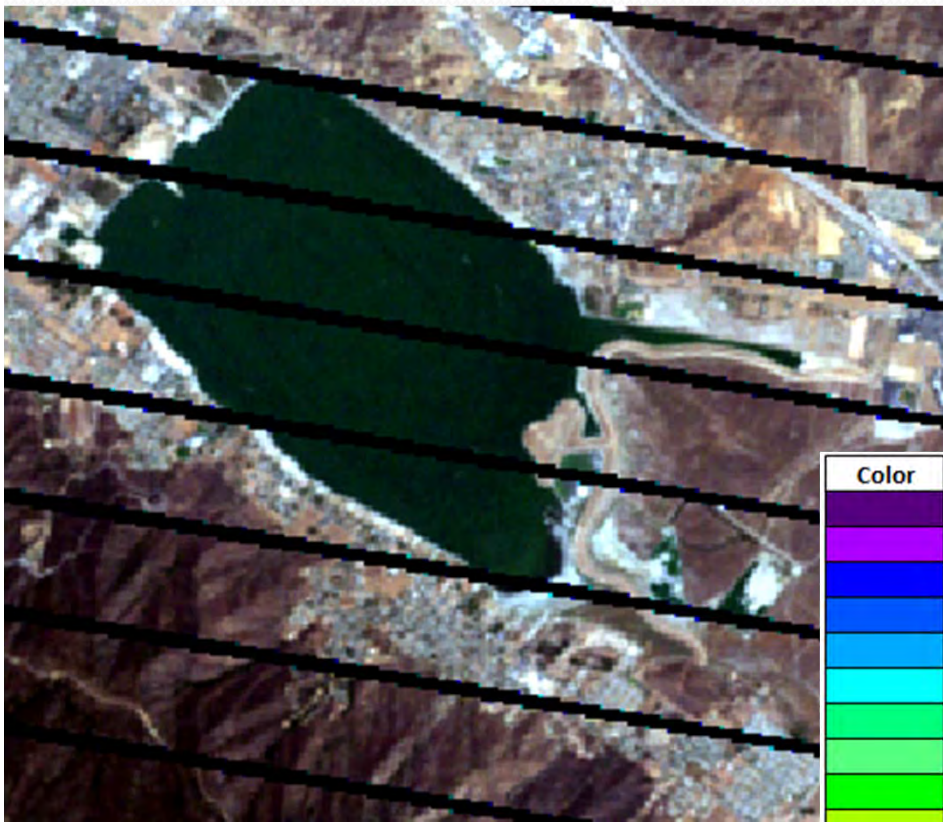
Lake Elsinore 07/24/2004 Natural Color Image (Left) and Chl-a Scan (Right)



Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	2.4
Medium Purple	6-10	0.0
Blue	11-15	0.0
Light Blue	16-20	0.1
Cyan	21-25	0.1
Light Cyan	26-30	0.1
Green	31-35	0.0
Light Green	36-40	0.0
Bright Green	41-45	0.2
Yellow-Green	46-50	0.1
Yellow	51-75	1.0
Orange-Yellow	76-100	1.9
Orange	101-125	2.4
Red-Orange	126-150	4.2
Red	>150	87.6

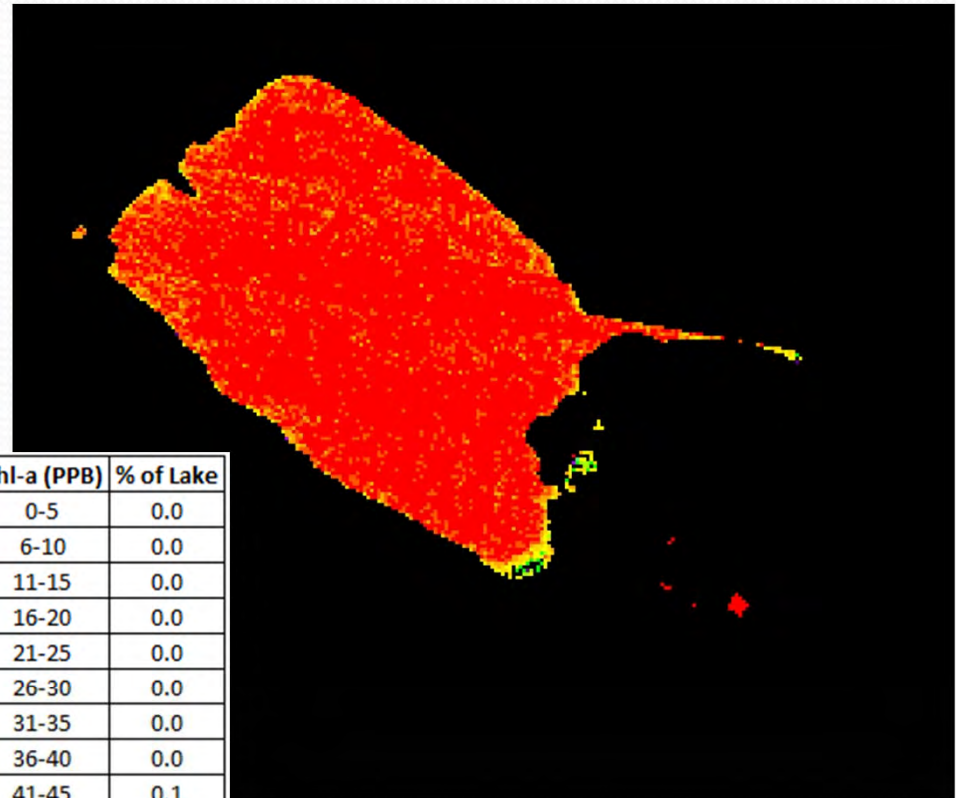
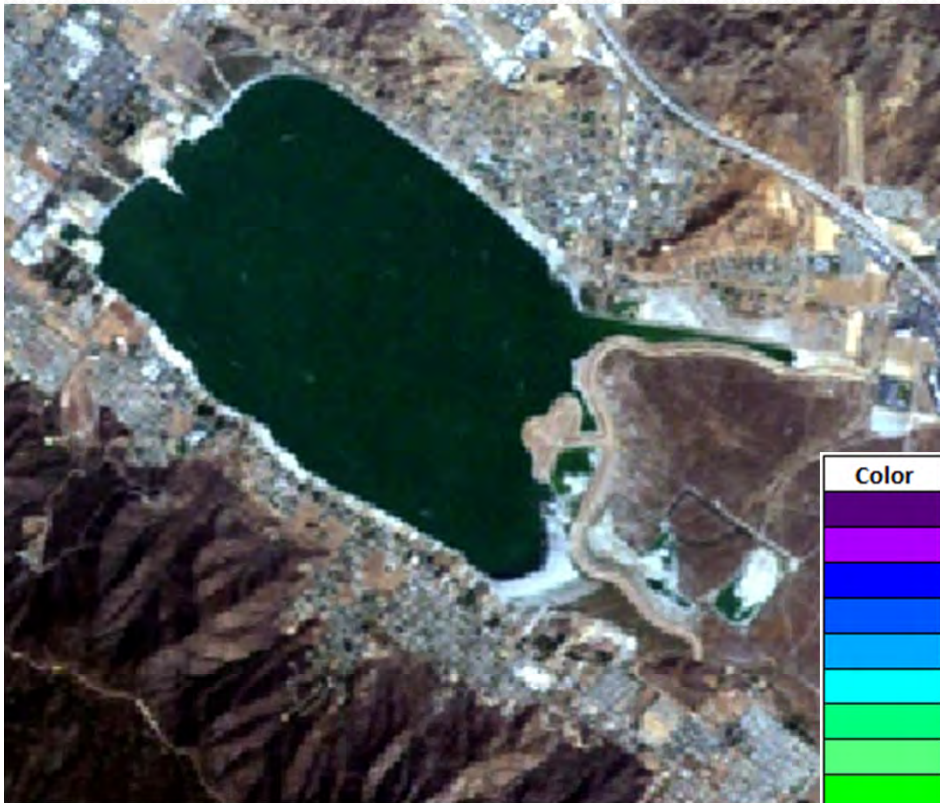
Lake Elsinore 08/09/2004 Natural Color Image (Left) and Chl-a Scan (Right)

(Elsinore data taken on satellite overpass date)



Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	19.0
Light Purple	6-10	0.1
Blue	11-15	0.1
Light Blue	16-20	0.1
Cyan	21-25	0.1
Light Cyan	26-30	0.1
Green	31-35	0.1
Light Green	36-40	0.4
Bright Green	41-45	2.2
Yellow-Green	46-50	1.4
Yellow	51-75	16.2
Orange	76-100	13.5
Light Orange	101-125	10.9
Red-Orange	126-150	9.5
Red	>150	26.5

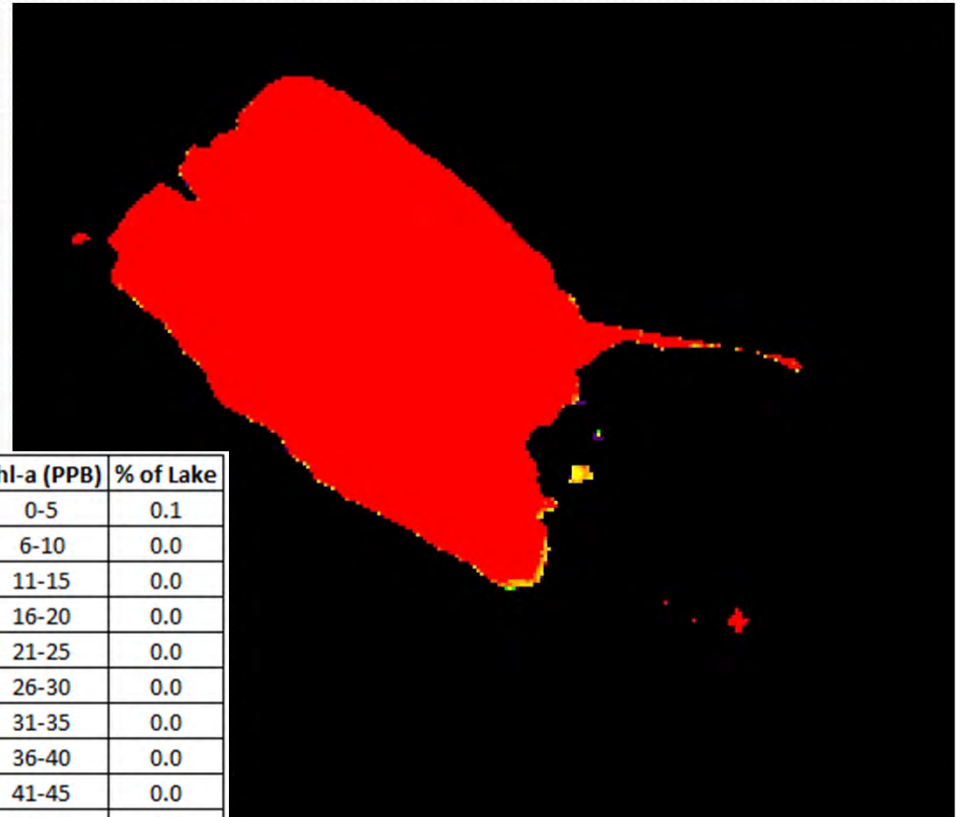
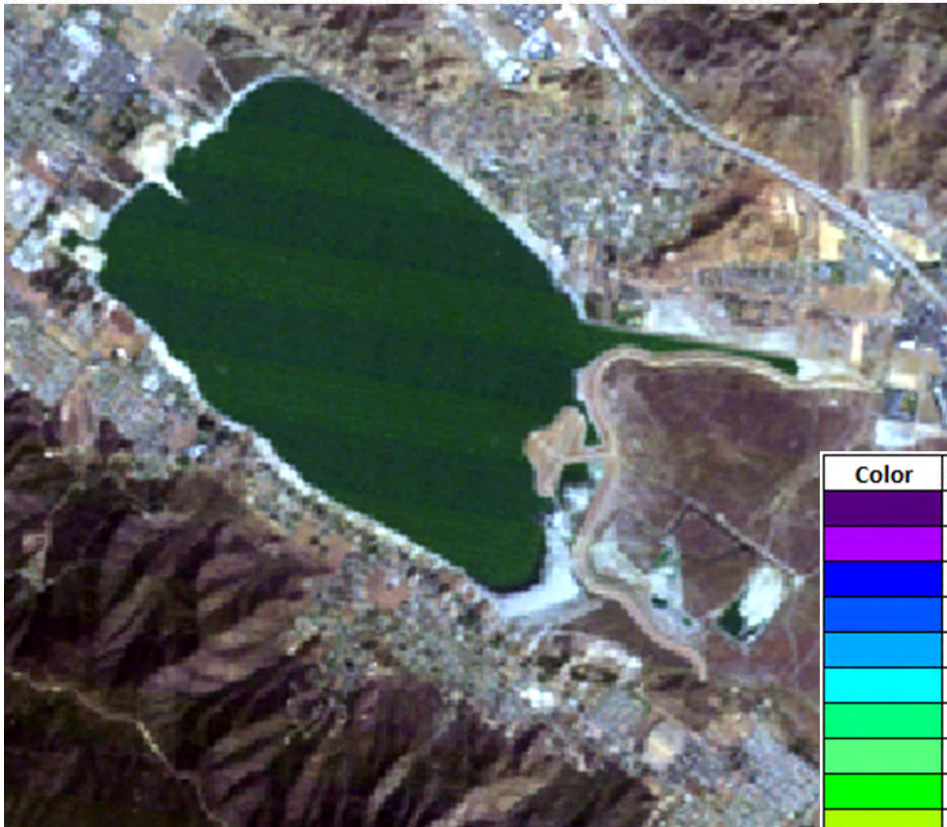
Lake Elsinore 09/18/2004 Natural Color Image (Left) and Chl-a Scan (Right)



Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	0.0
Purple	6-10	0.0
Blue-Purple	11-15	0.0
Blue	16-20	0.0
Light Blue	21-25	0.0
Cyan	26-30	0.0
Green-Cyan	31-35	0.0
Green	36-40	0.0
Light Green	41-45	0.1
Yellow-Green	46-50	0.1
Yellow	51-75	0.8
Orange-Yellow	76-100	1.2
Orange	101-125	4.4
Red-Orange	126-150	15.1
Red	>150	78.2

Lake Elsinore 10/04/2004 Natural Color Image (Left) and Chl-a Scan (Right)

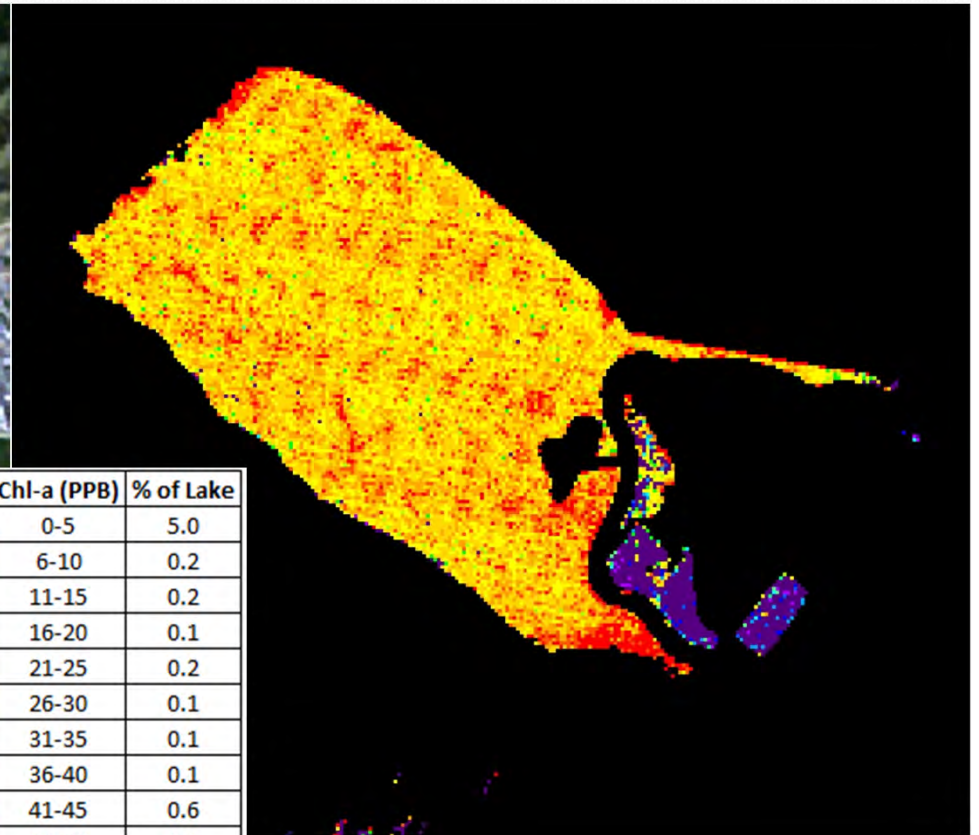
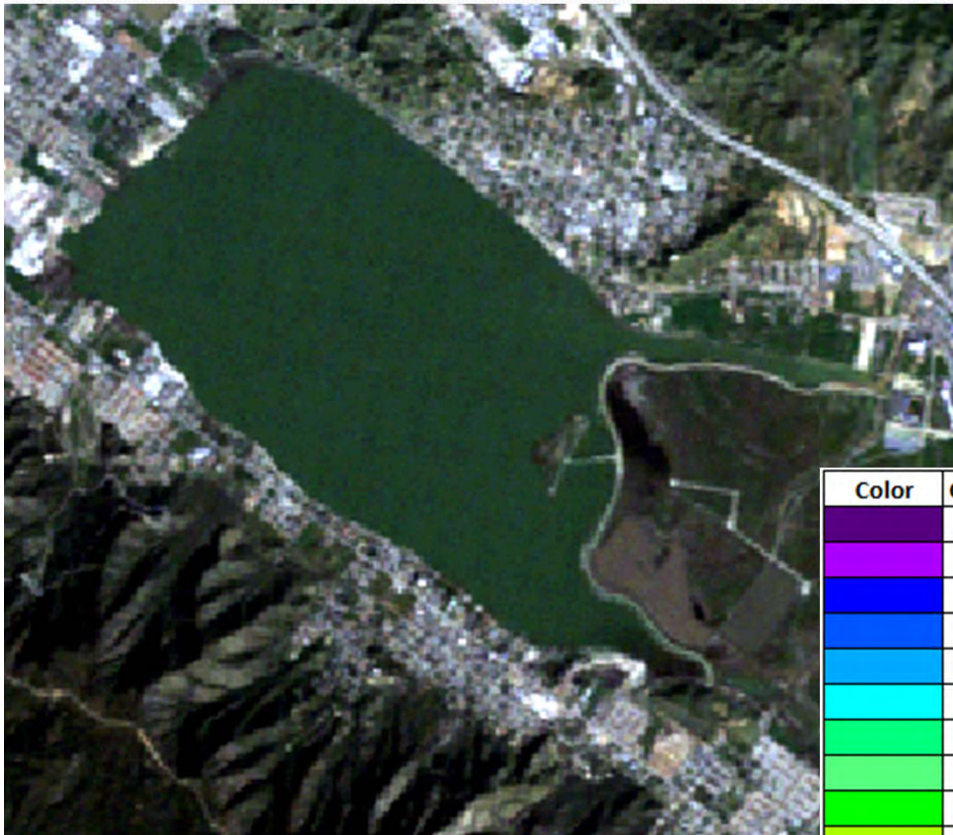
(Elsinore data taken on satellite overpass date)



Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	0.1
Purple	6-10	0.0
Blue-Violet	11-15	0.0
Blue	16-20	0.0
Cyan	21-25	0.0
Light Cyan	26-30	0.0
Green	31-35	0.0
Light Green	36-40	0.0
Bright Green	41-45	0.0
Yellow-Green	46-50	0.0
Yellow	51-75	0.1
Orange-Yellow	76-100	0.4
Orange	101-125	0.4
Red-Orange	126-150	0.5
Red	>150	98.5

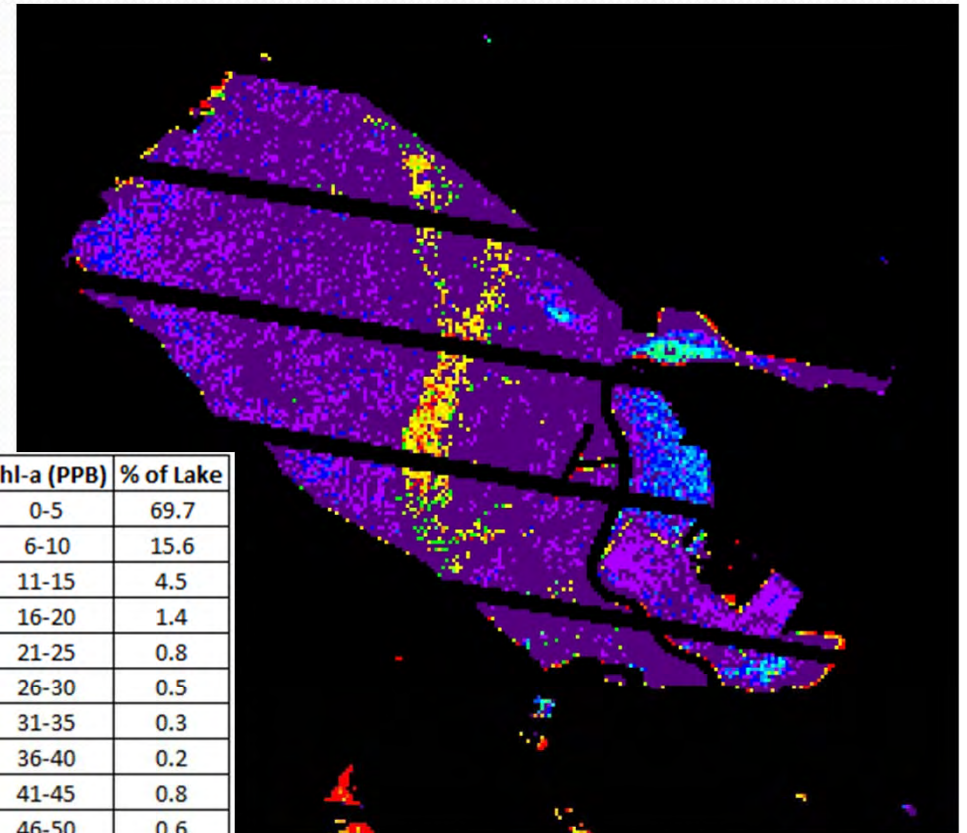
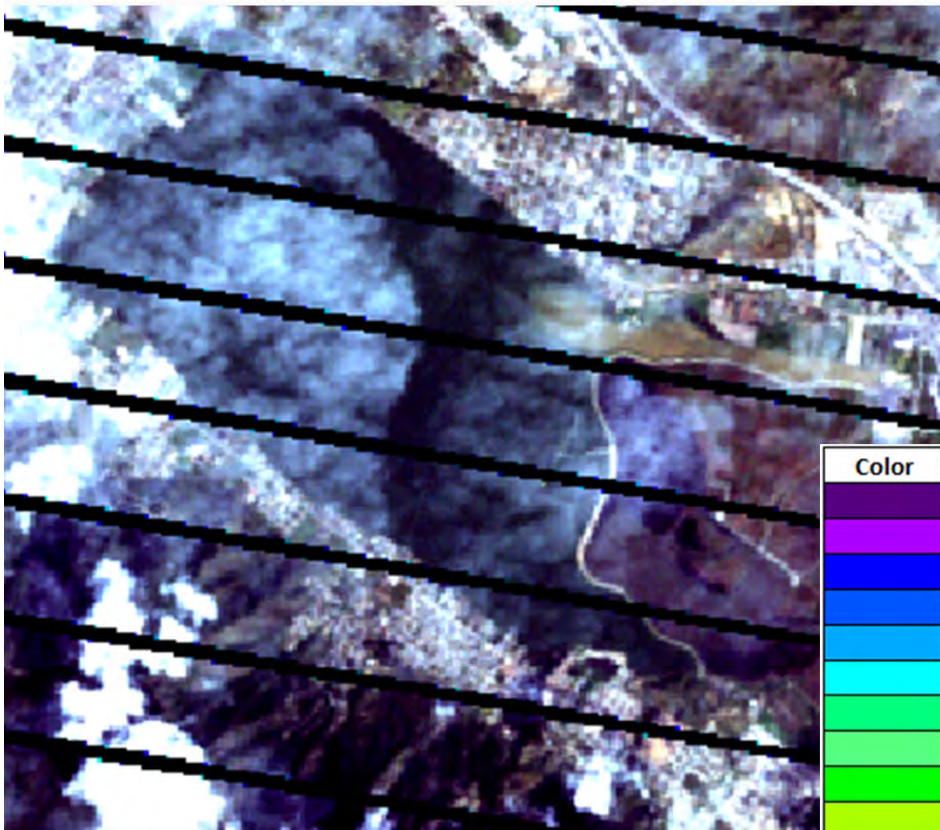
Lake Elsinore 02/09/2005 Natural Color Image (Left) and Chl-a Scan (Right)

(Elsinore data taken on satellite overpass date)



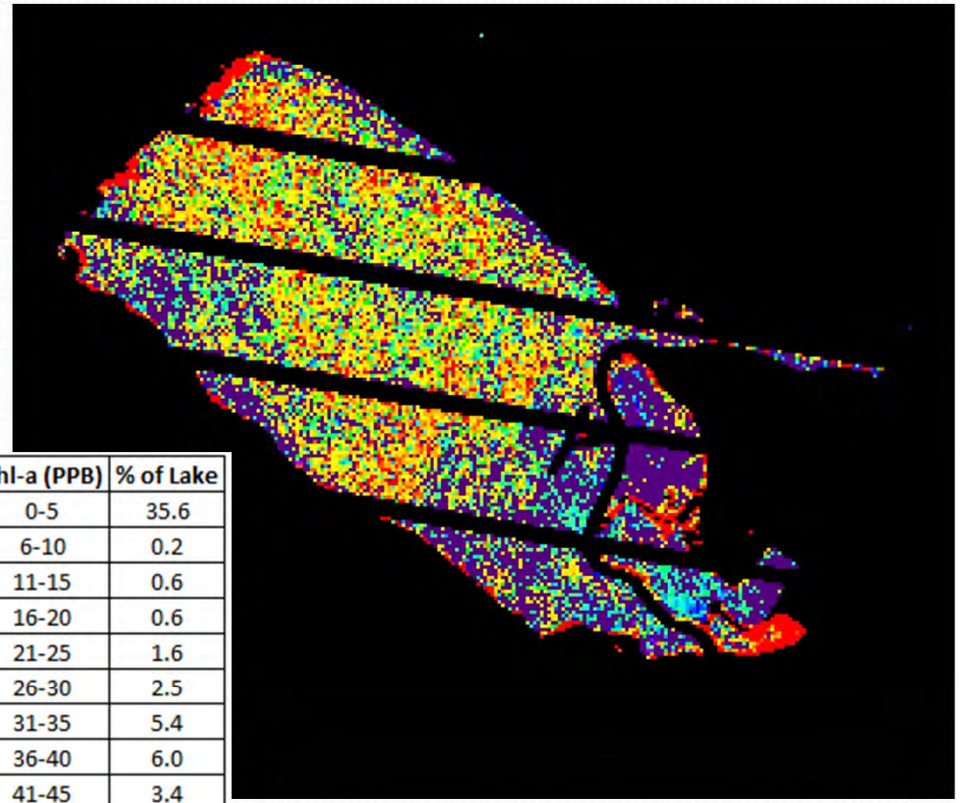
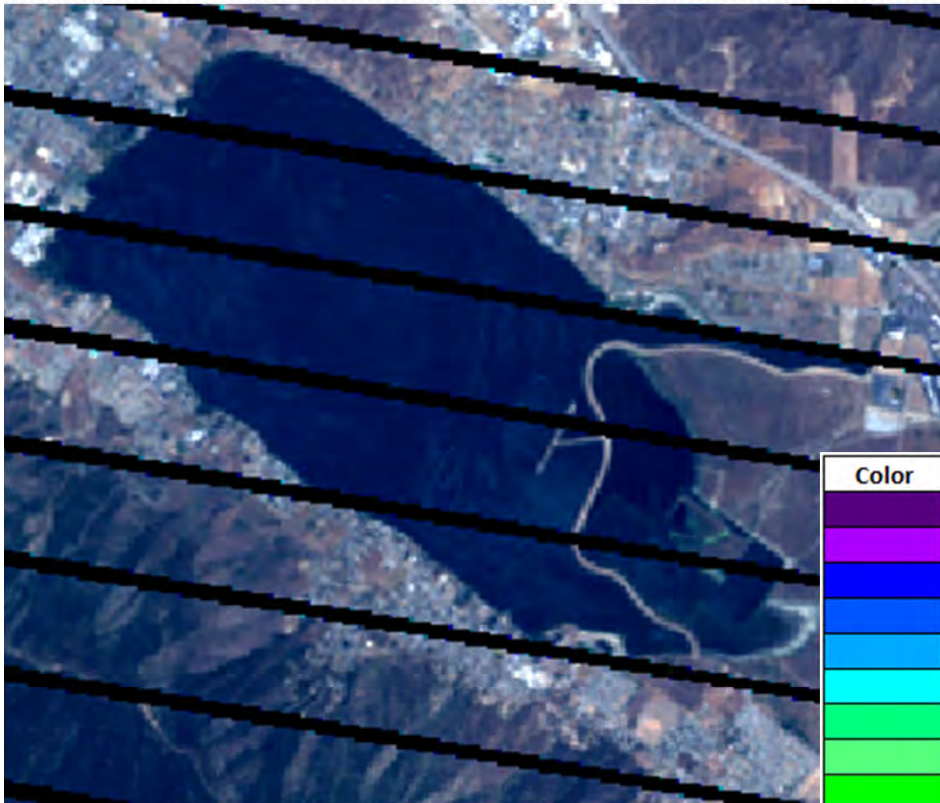
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	5.0
Light Purple	6-10	0.2
Blue	11-15	0.2
Light Blue	16-20	0.1
Cyan	21-25	0.2
Light Green	26-30	0.1
Green	31-35	0.1
Light Green	36-40	0.1
Bright Green	41-45	0.6
Yellow-Green	46-50	1.1
Yellow	51-75	18.3
Orange	76-100	35.6
Dark Orange	101-125	23.9
Red-Orange	126-150	9.3
Red	>150	5.4

Lake Elsinore 03/21/2005 Natural Color Image (Left) and Chl-a Scan (Right)



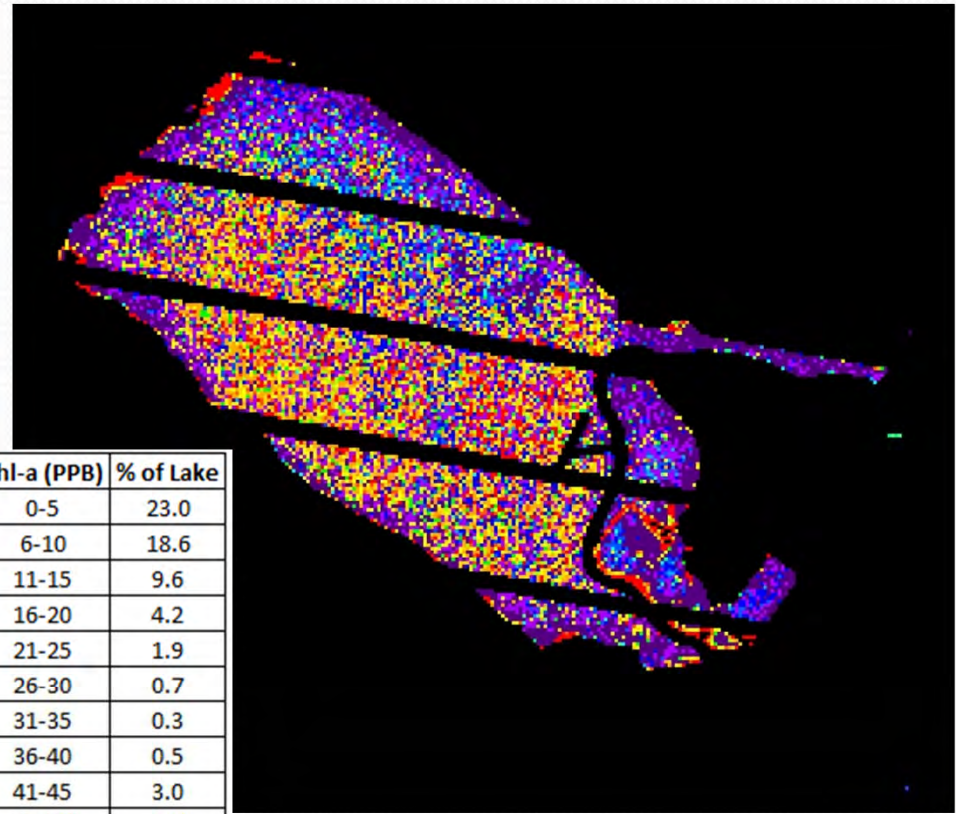
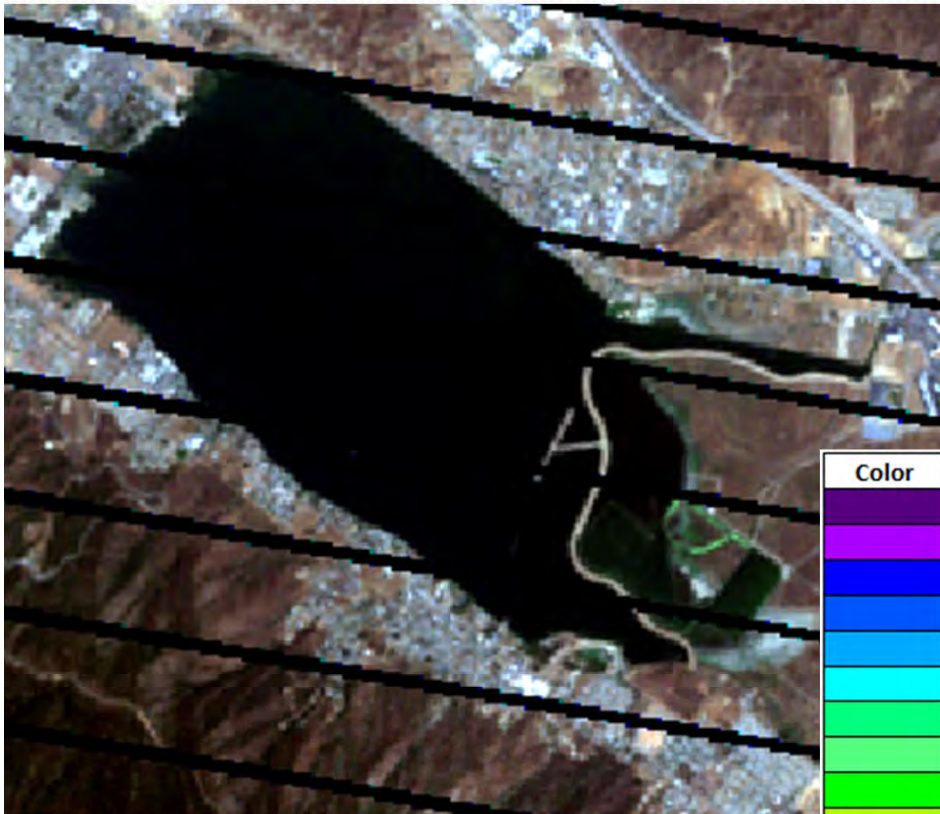
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	69.7
Purple	6-10	15.6
Blue	11-15	4.5
Light Blue	16-20	1.4
Cyan	21-25	0.8
Light Cyan	26-30	0.5
Green	31-35	0.3
Light Green	36-40	0.2
Bright Green	41-45	0.8
Yellow-Green	46-50	0.6
Yellow	51-75	2.2
Orange	76-100	1.2
Light Orange	101-125	0.6
Red-Orange	126-150	0.4
Red	>150	1.2

Lake Elsinore 06/25/2005 Natural Color Image (Left) and Chl-a Scan (Right)



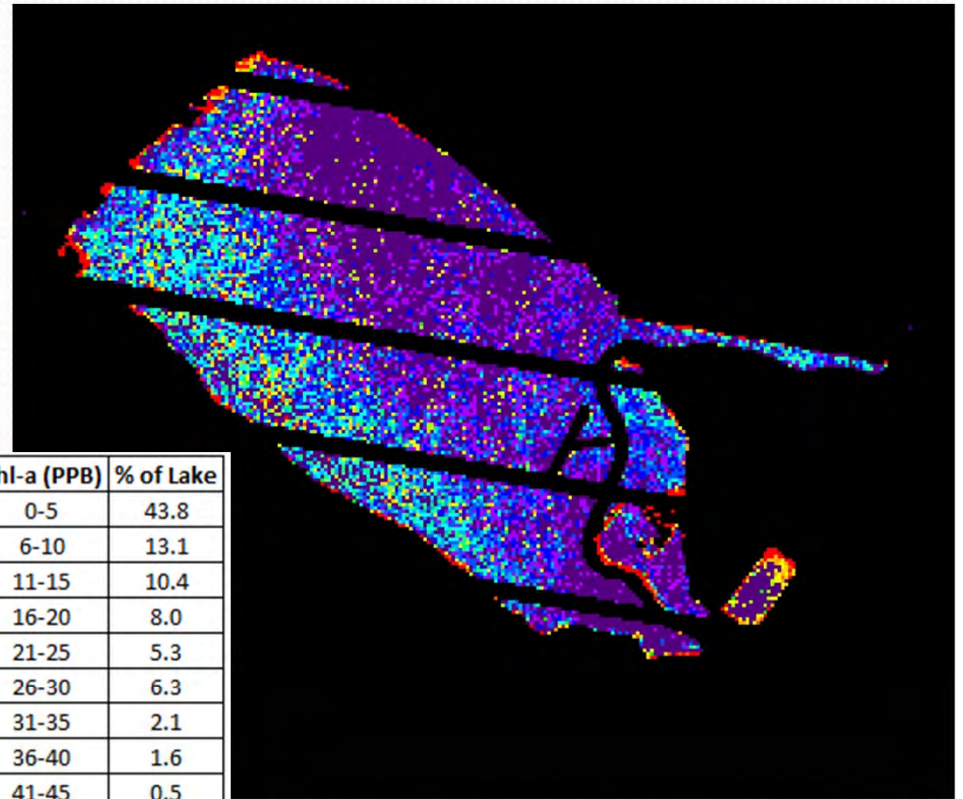
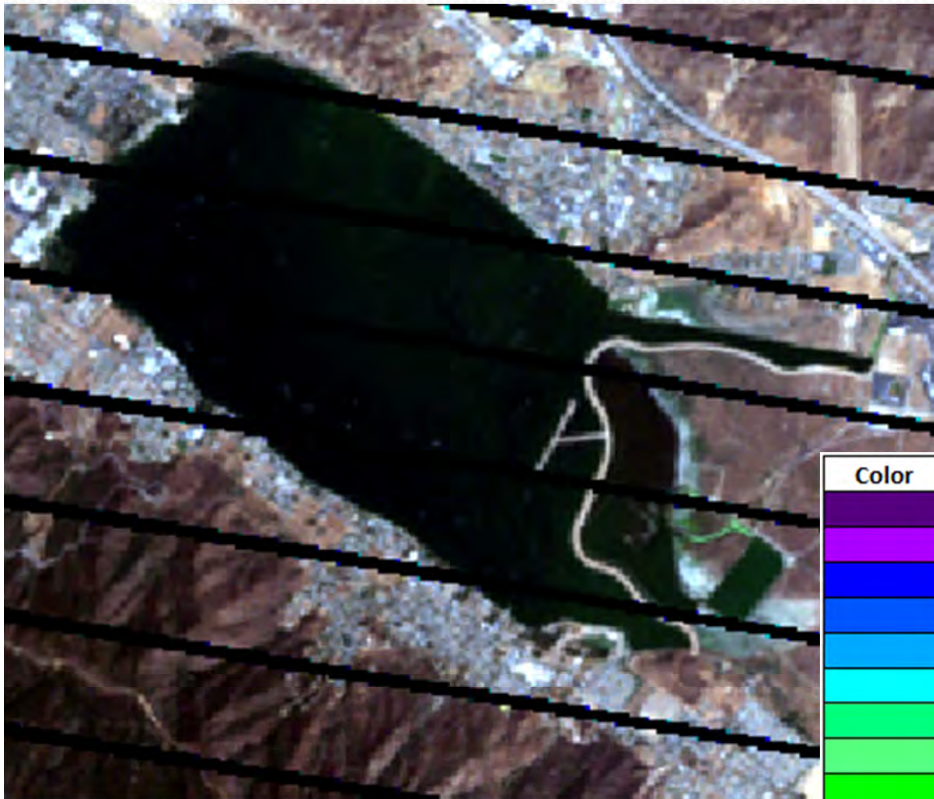
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	35.6
Light Purple	6-10	0.2
Blue	11-15	0.6
Light Blue	16-20	0.6
Cyan	21-25	1.6
Light Cyan	26-30	2.5
Green	31-35	5.4
Light Green	36-40	6.0
Bright Green	41-45	3.4
Yellow-Green	46-50	2.3
Yellow	51-75	15.4
Orange	76-100	9.8
Light Orange	101-125	5.4
Dark Orange	126-150	3.3
Red	>150	7.9

Lake Elsinore 07/27/2005 Natural Color Image (Left) and Chl-a Scan (Right)



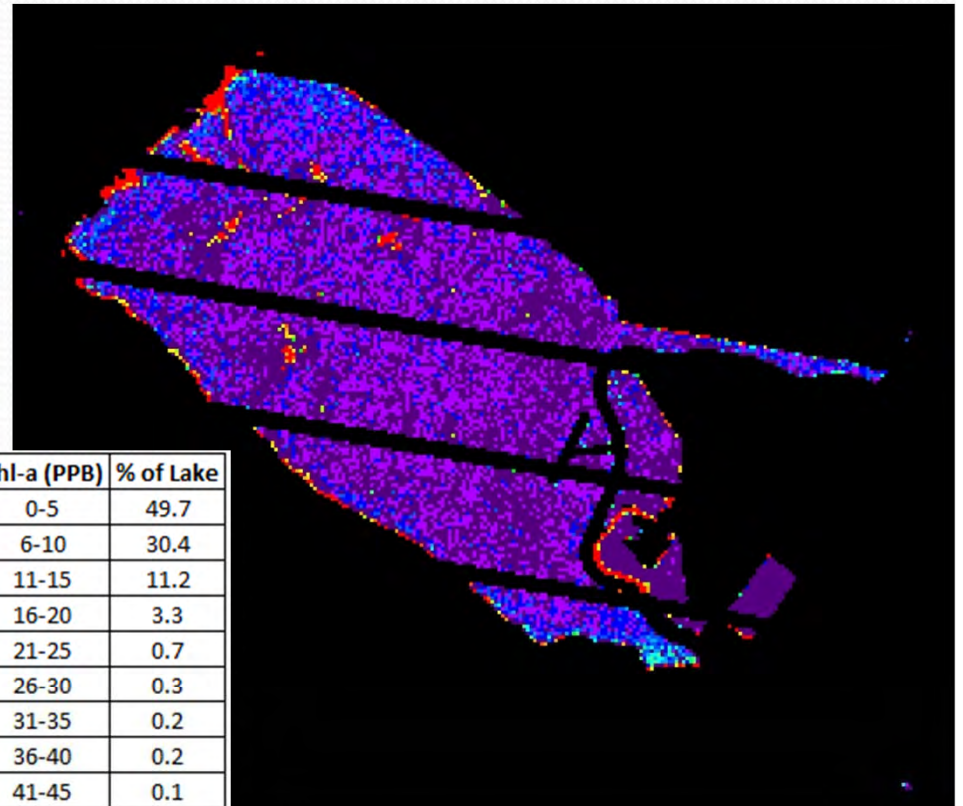
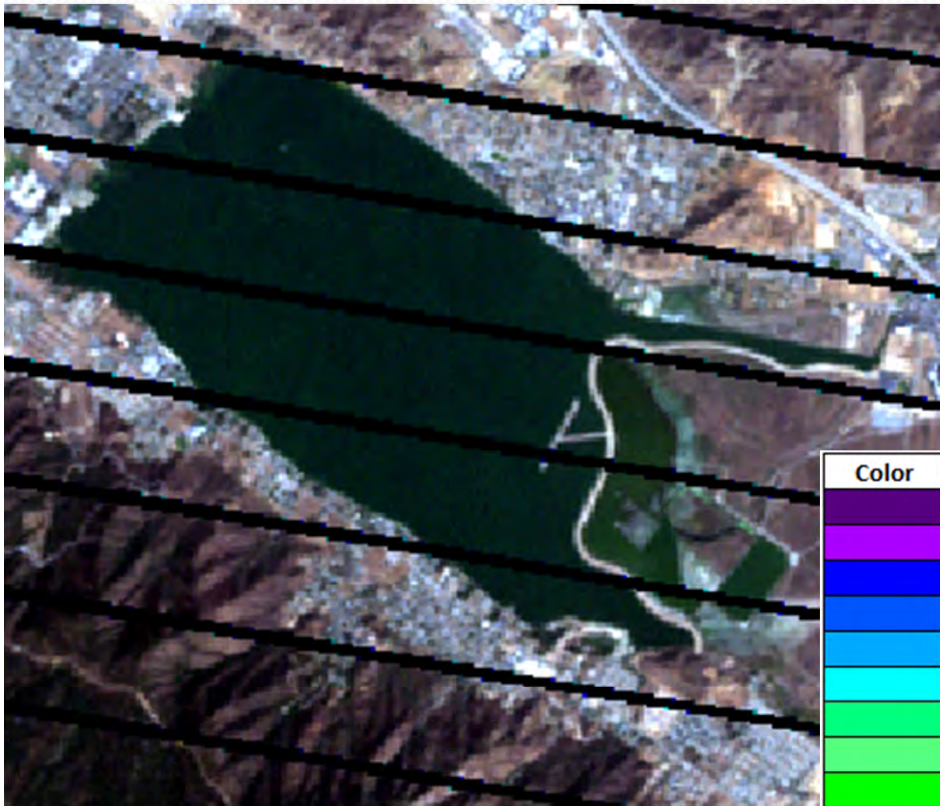
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	23.0
Purple	6-10	18.6
Blue	11-15	9.6
Light Blue	16-20	4.2
Cyan	21-25	1.9
Light Cyan	26-30	0.7
Green	31-35	0.3
Light Green	36-40	0.5
Bright Green	41-45	3.0
Yellow-Green	46-50	3.0
Yellow	51-75	8.2
Orange	76-100	7.2
Light Orange	101-125	9.7
Red-Orange	126-150	2.3
Red	>150	7.9

Lake Elsinore 08/28/2005 Natural Color Image (Left) and Chl-a Scan (Right)



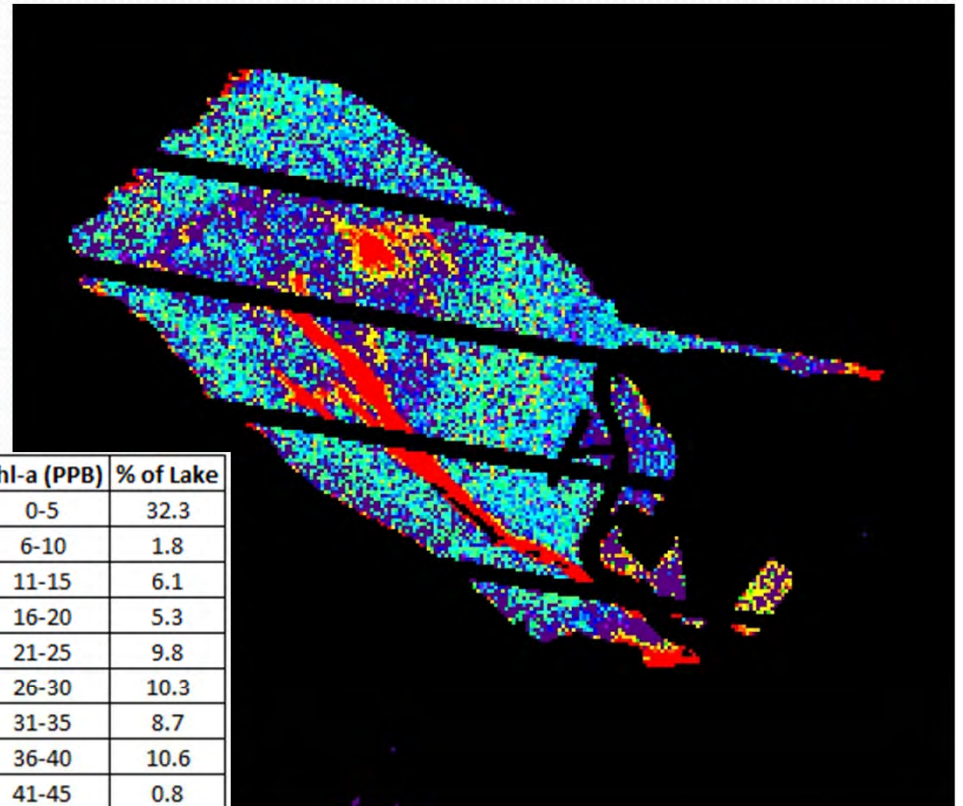
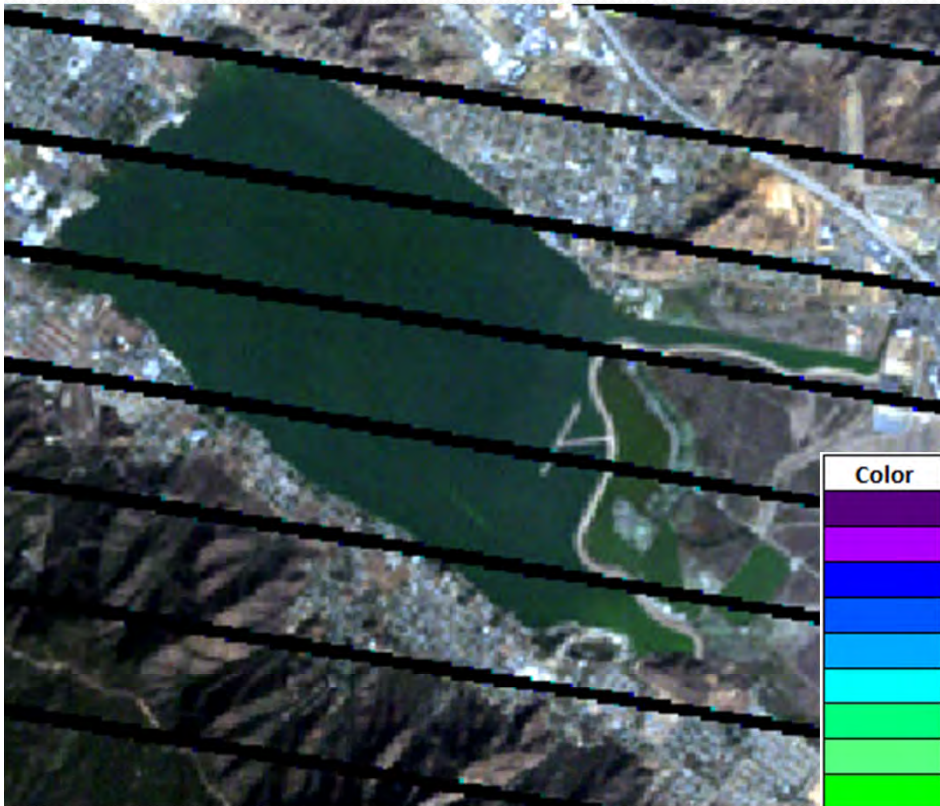
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	43.8
Medium Purple	6-10	13.1
Blue	11-15	10.4
Light Blue	16-20	8.0
Cyan	21-25	5.3
Light Cyan	26-30	6.3
Green	31-35	2.1
Light Green	36-40	1.6
Bright Green	41-45	0.5
Yellow-Green	46-50	1.0
Yellow	51-75	3.3
Orange-Yellow	76-100	1.3
Orange	101-125	0.7
Red-Orange	126-150	0.5
Red	>150	2.2

Lake Elsinore 09/29/2005 Natural Color Image (Left) and Chl-a Scan (Right)



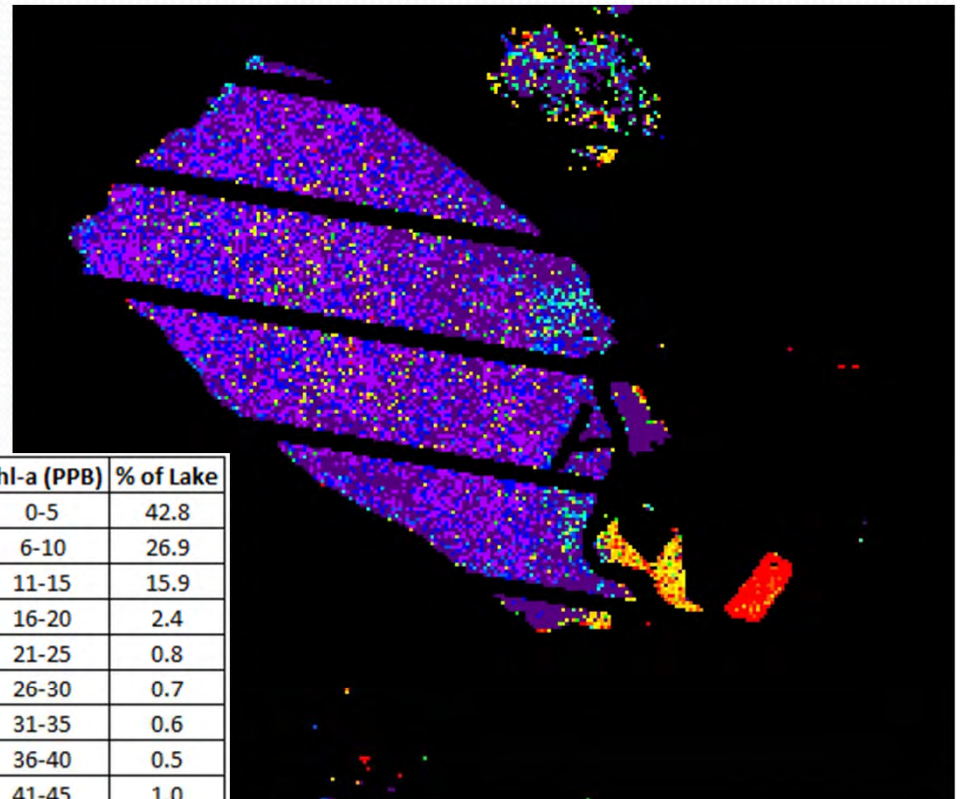
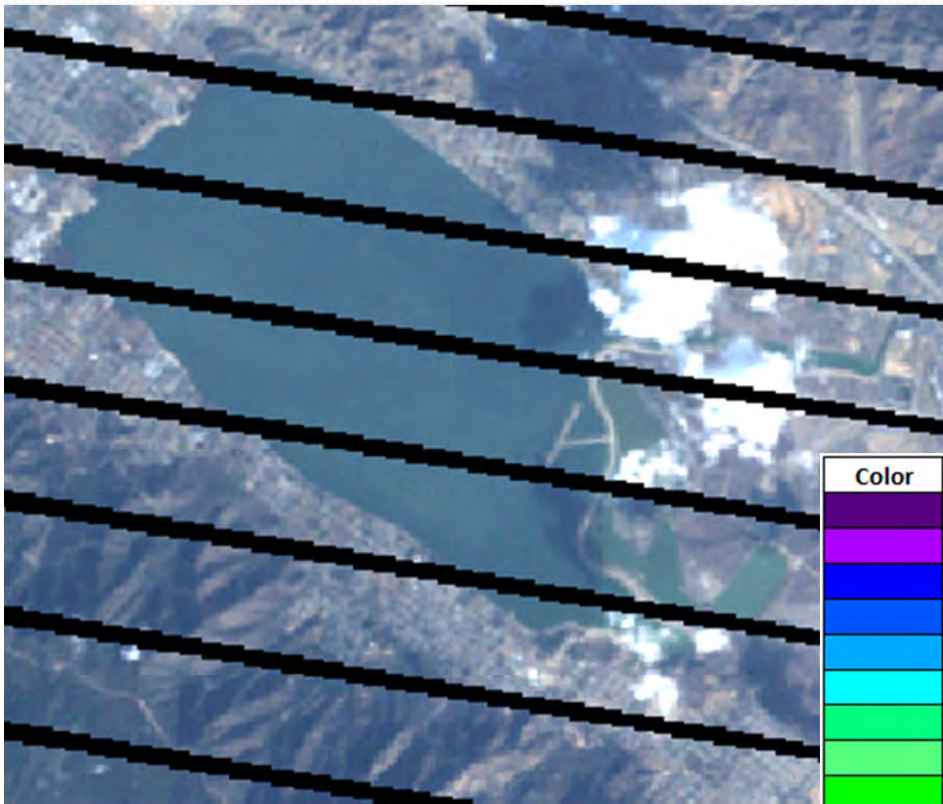
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	49.7
Medium Purple	6-10	30.4
Blue	11-15	11.2
Light Blue	16-20	3.3
Cyan	21-25	0.7
Light Cyan	26-30	0.3
Green	31-35	0.2
Light Green	36-40	0.2
Bright Green	41-45	0.1
Yellow-Green	46-50	0.1
Yellow	51-75	0.4
Orange-Yellow	76-100	0.3
Orange	101-125	0.3
Red-Orange	126-150	0.2
Red	>150	2.4

Lake Elsinore 11/16/2005 Natural Color Image (Left) and Chl-a Scan (Right)



Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	32.3
Light Purple	6-10	1.8
Blue	11-15	6.1
Light Blue	16-20	5.3
Cyan	21-25	9.8
Light Cyan	26-30	10.3
Green	31-35	8.7
Light Green	36-40	10.6
Bright Green	41-45	0.8
Yellow-Green	46-50	0.7
Yellow	51-75	3.4
Orange-Yellow	76-100	1.9
Orange	101-125	1.2
Red-Orange	126-150	0.7
Red	>150	6.5

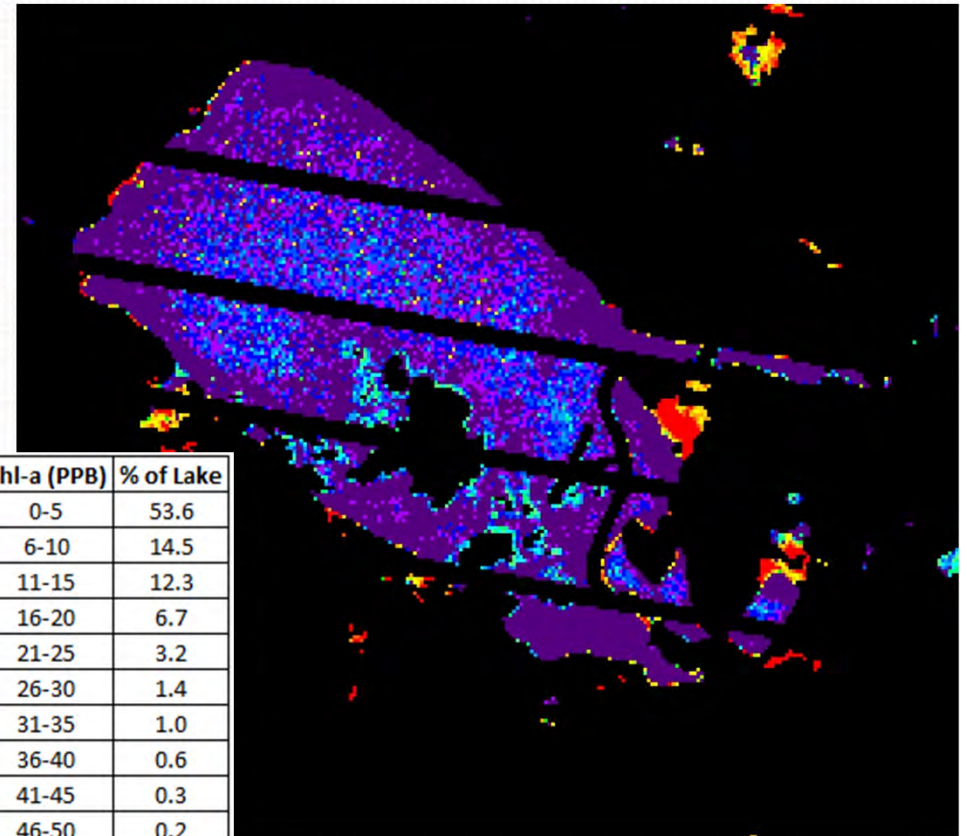
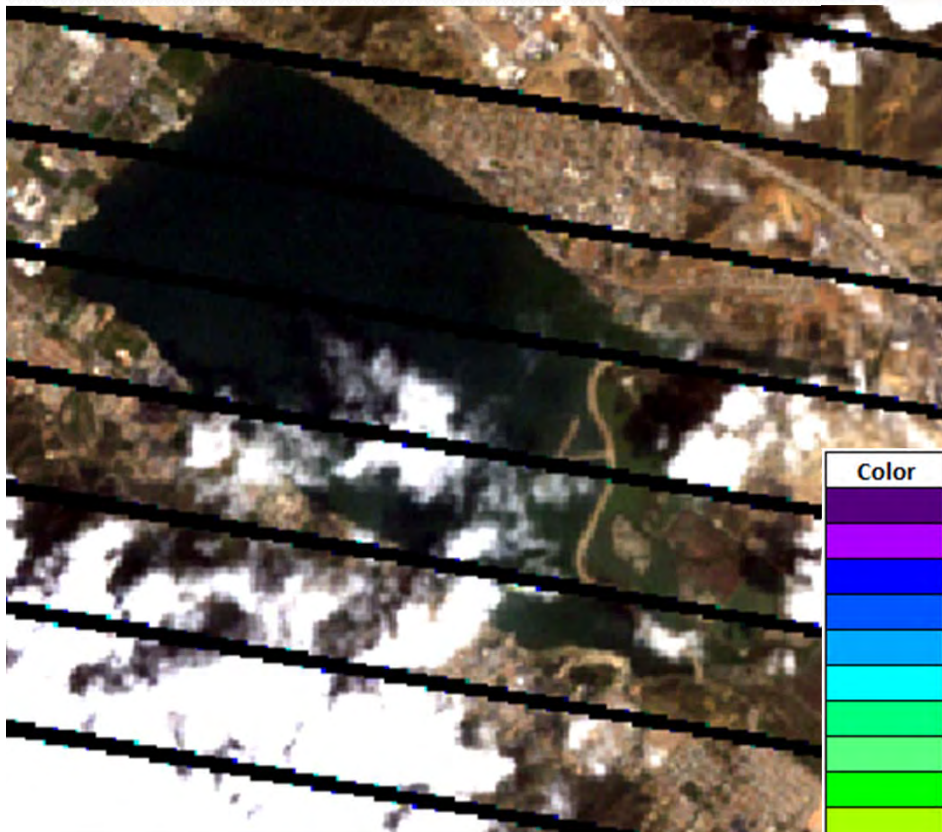
Lake Elsinore 01/19/2006 Natural Color Image (Left) and Chl-a Scan (Right)



Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	42.8
Medium Purple	6-10	26.9
Blue	11-15	15.9
Light Blue	16-20	2.4
Cyan	21-25	0.8
Light Cyan	26-30	0.7
Green	31-35	0.6
Light Green	36-40	0.5
Bright Green	41-45	1.0
Yellow-Green	46-50	1.4
Yellow	51-75	2.2
Orange-Yellow	76-100	1.5
Orange	101-125	0.8
Red-Orange	126-150	0.5
Red	>150	1.9

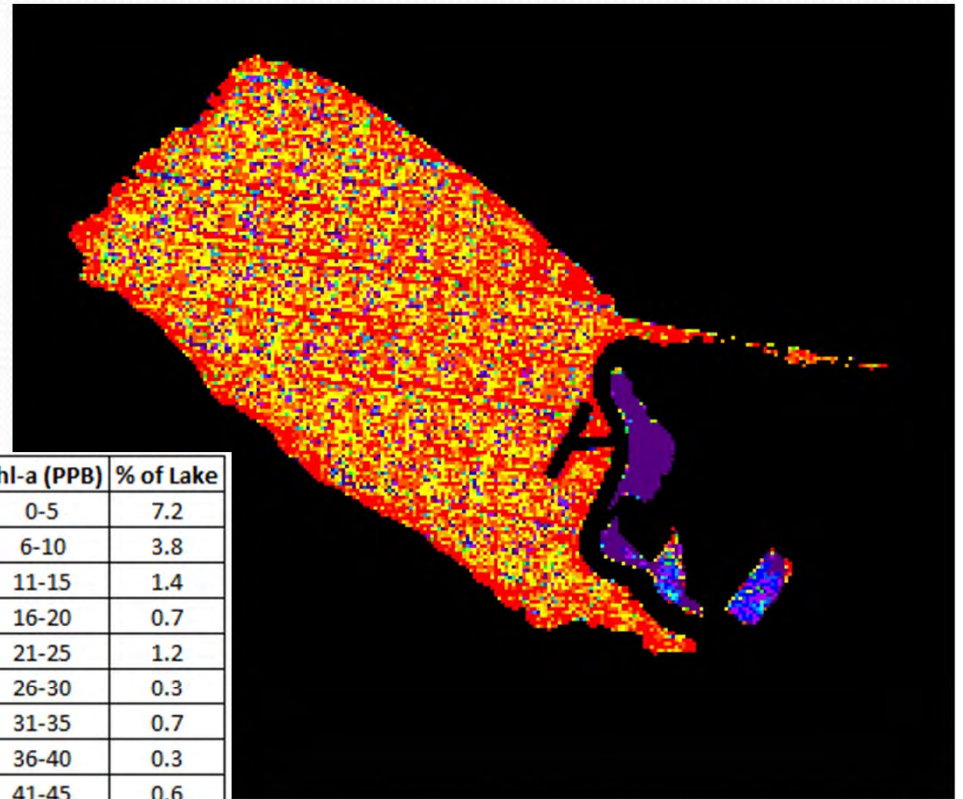
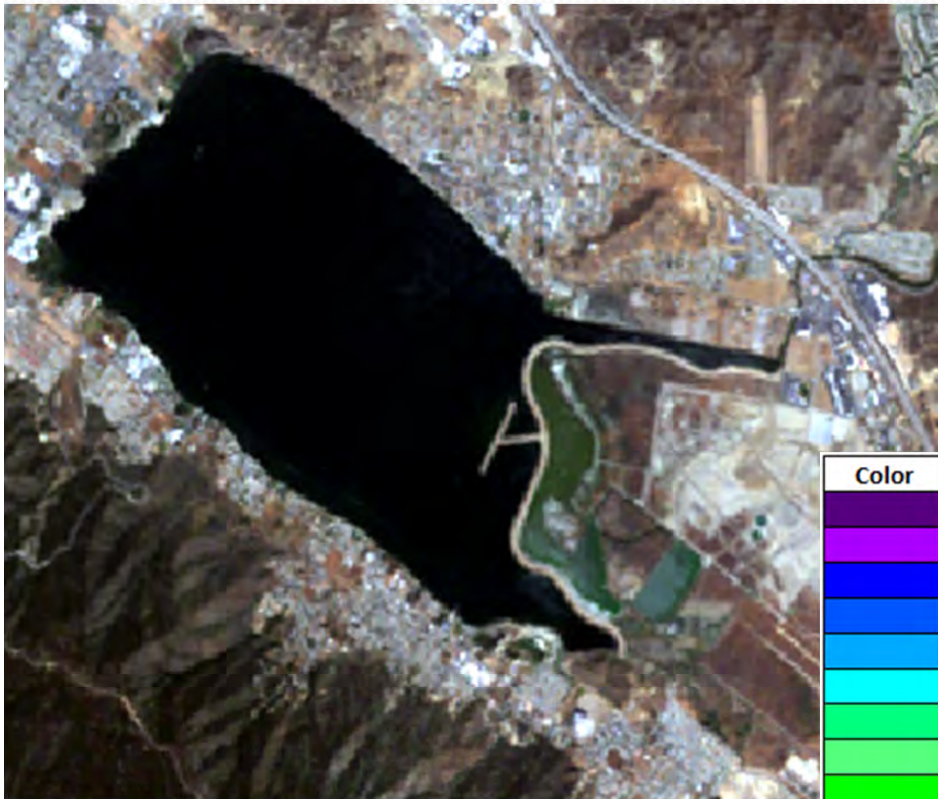
Lake Elsinore 04/25/2006 Natural Color Image (Left) and Chl-a Scan (Right)

(Elsinore data taken on satellite overpass date)



Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	53.6
Light Purple	6-10	14.5
Blue	11-15	12.3
Light Blue	16-20	6.7
Cyan	21-25	3.2
Light Cyan	26-30	1.4
Green	31-35	1.0
Light Green	36-40	0.6
Bright Green	41-45	0.3
Yellow-Green	46-50	0.2
Yellow	51-75	1.0
Orange-Yellow	76-100	0.9
Orange	101-125	0.7
Red-Orange	126-150	0.6
Red	>150	2.9

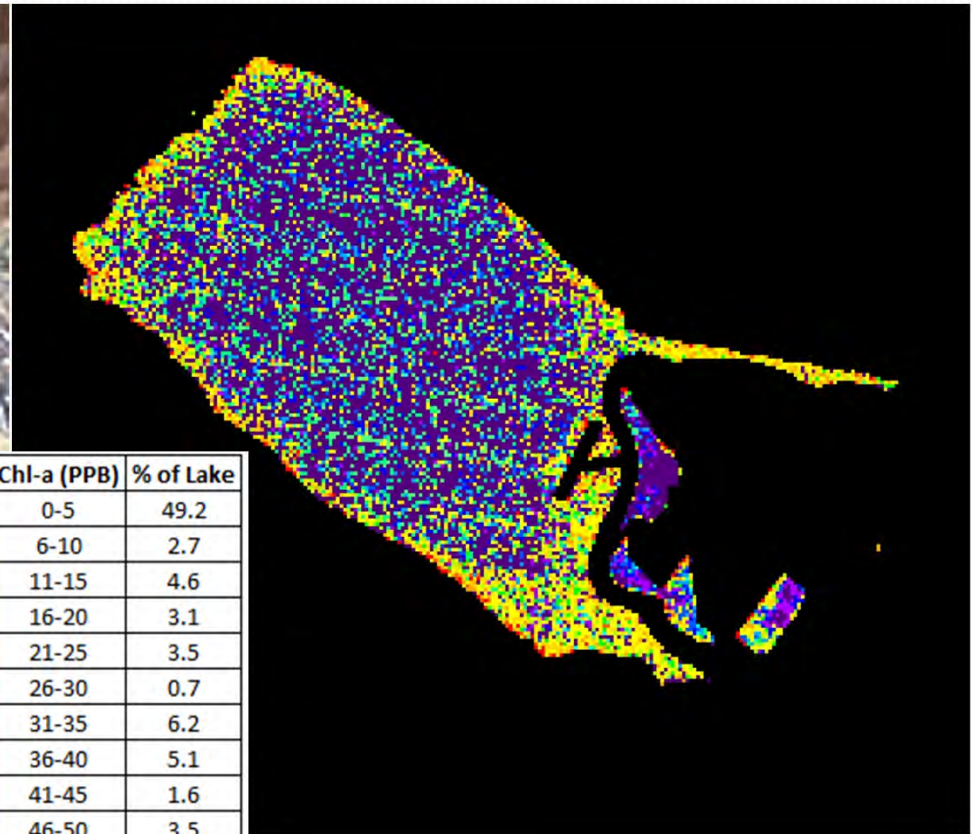
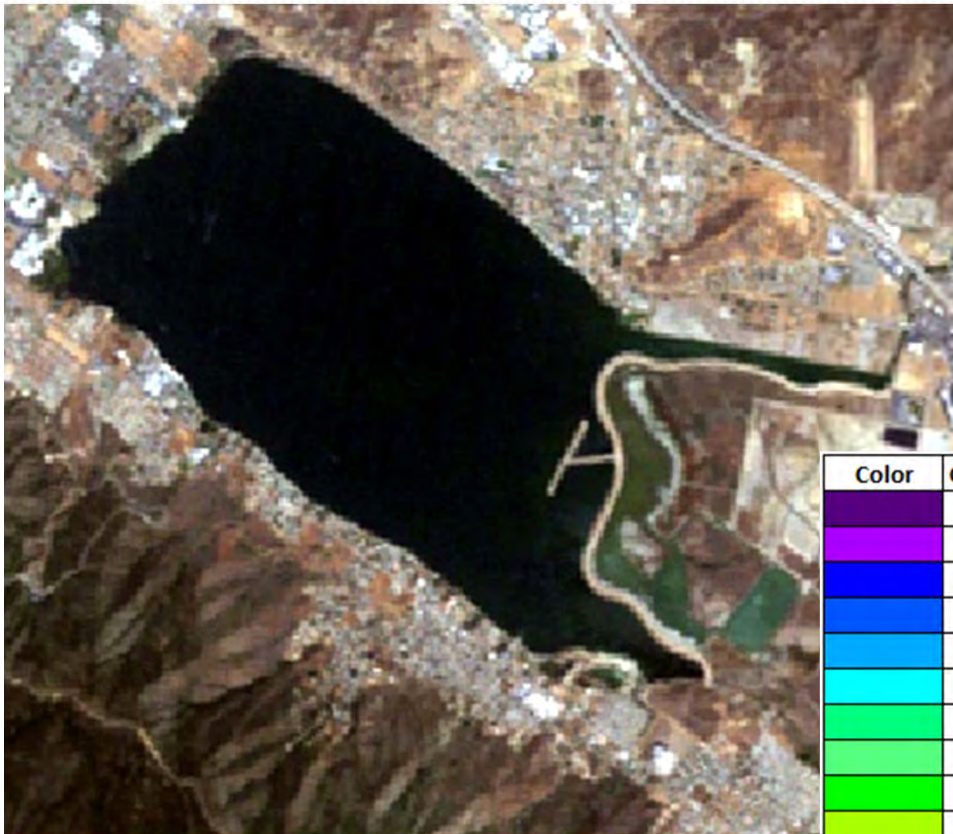
Lake Elsinore 05/19/2006 Natural Color Image (Left) and Chl-a Scan (Right)



Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	7.2
Purple	6-10	3.8
Blue	11-15	1.4
Light Blue	16-20	0.7
Cyan	21-25	1.2
Light Cyan	26-30	0.3
Green	31-35	0.7
Light Green	36-40	0.3
Bright Green	41-45	0.6
Yellow-Green	46-50	1.1
Yellow	51-75	20.1
Orange	76-100	6.9
Dark Orange	101-125	8.0
Red-Orange	126-150	17.3
Red	>150	30.6

Lake Elsinore 06/20/2006 Natural Color Image (Left) and Chl-a Scan (Right)

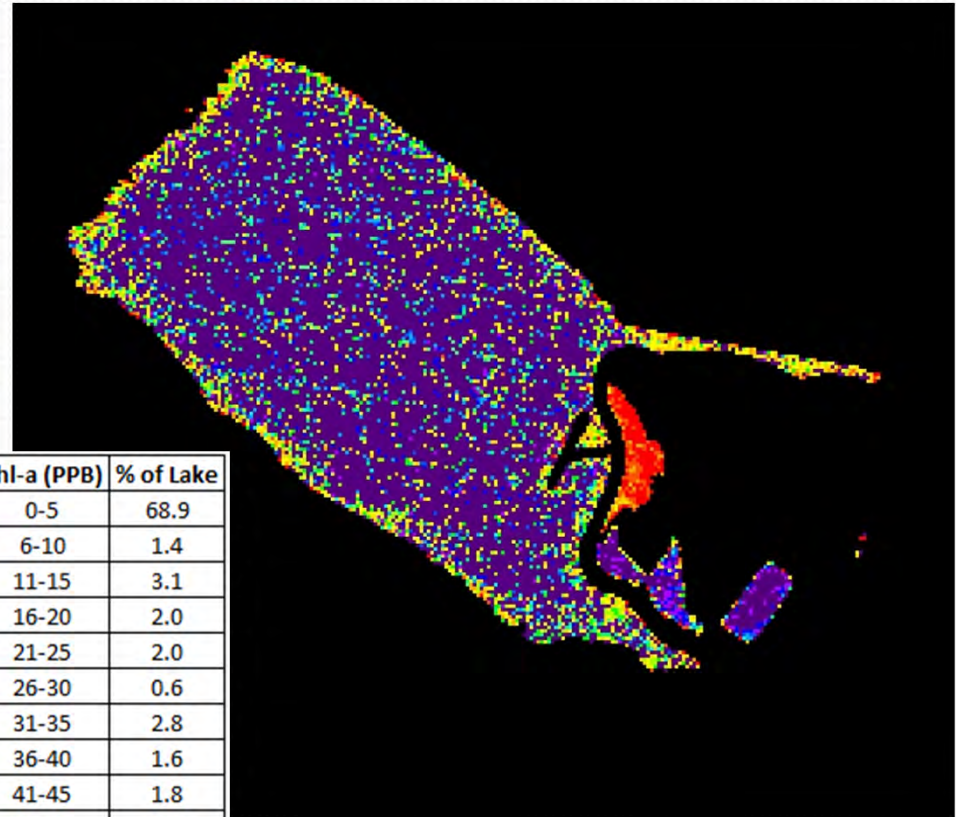
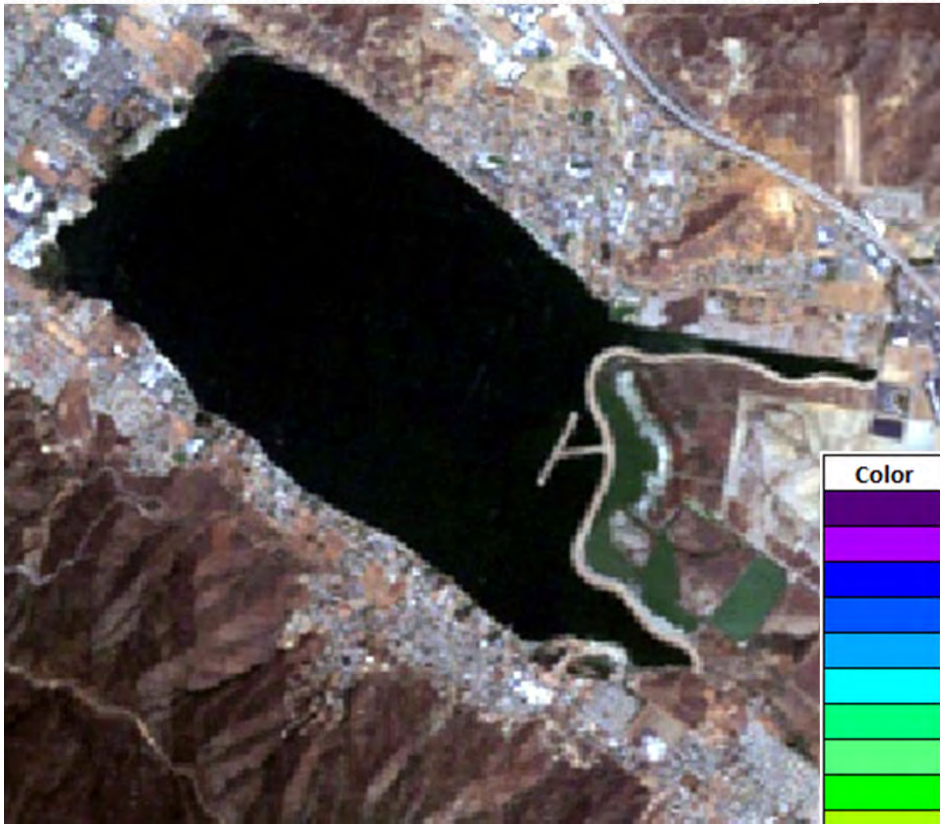
(Elsinore data taken on satellite overpass date)



Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	49.2
Light Purple	6-10	2.7
Blue	11-15	4.6
Light Blue	16-20	3.1
Cyan	21-25	3.5
Light Cyan	26-30	0.7
Green	31-35	6.2
Light Green	36-40	5.1
Bright Green	41-45	1.6
Yellow-Green	46-50	3.5
Yellow	51-75	10.9
Orange-Yellow	76-100	5.3
Orange	101-125	1.9
Red-Orange	126-150	0.8
Red	>150	0.8

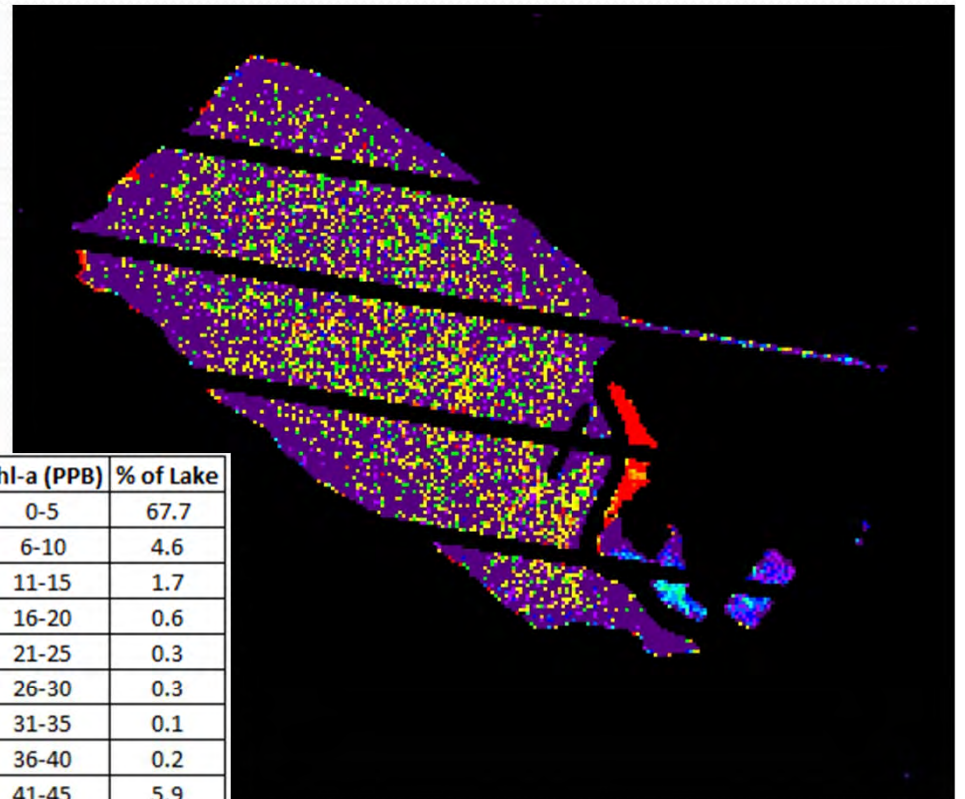
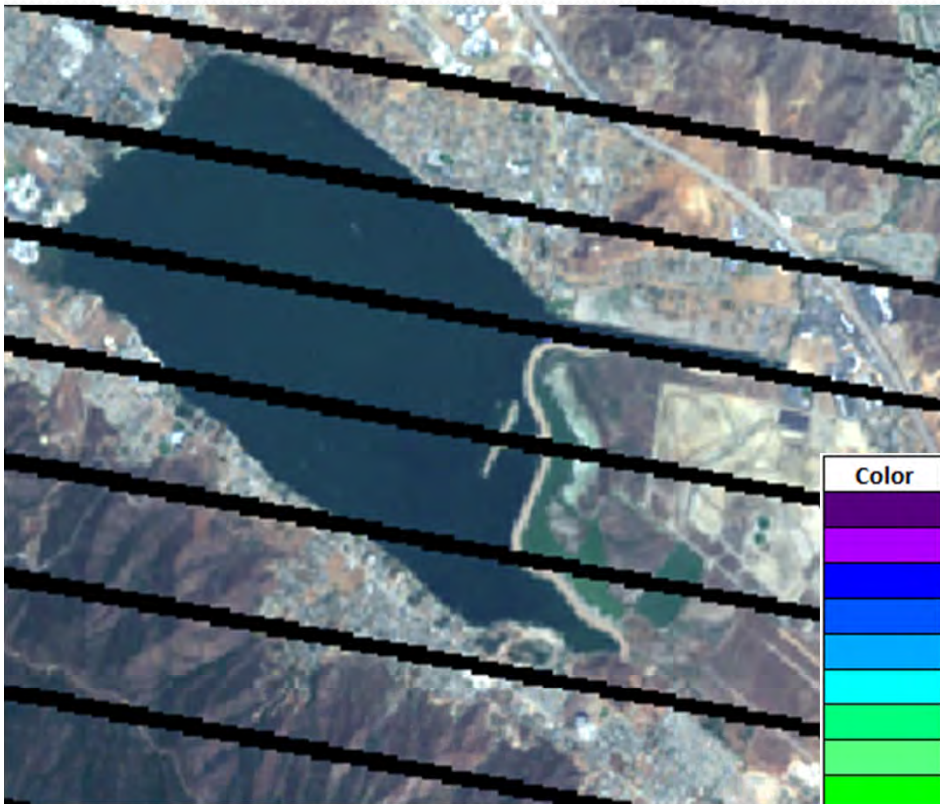
Lake Elsinore 07/06/2006 Natural Color Image (Left) and Chl-a Scan (Right)

(Elsinore data taken on satellite overpass date)



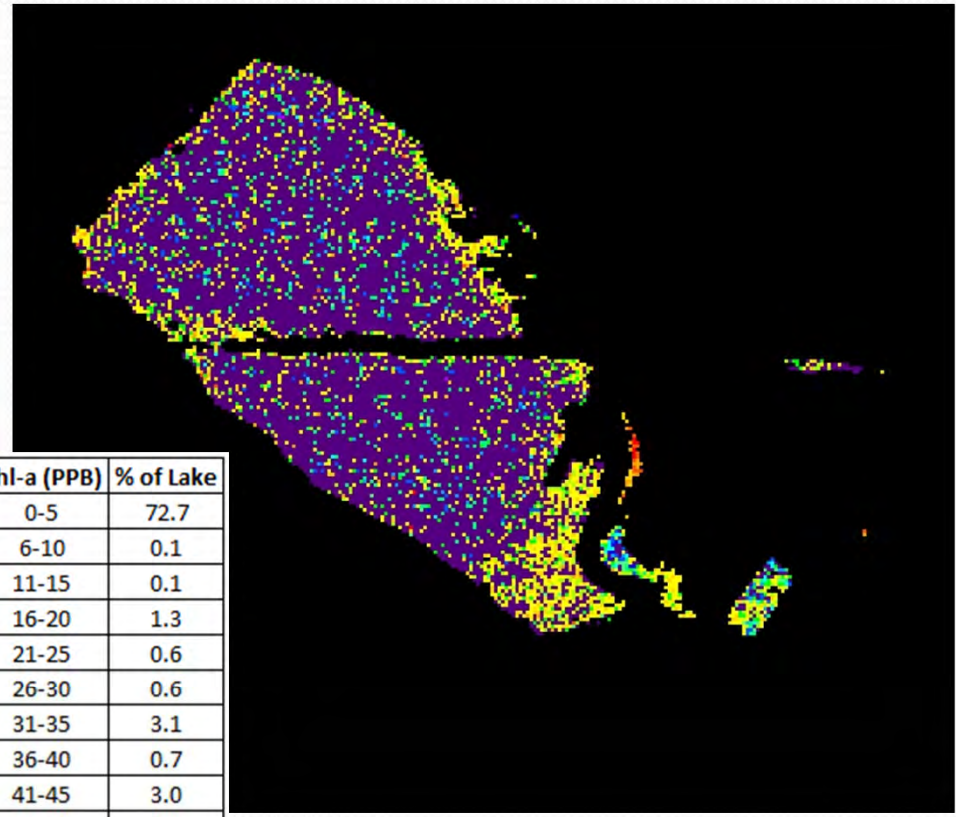
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	68.9
Light Purple	6-10	1.4
Blue	11-15	3.1
Light Blue	16-20	2.0
Cyan	21-25	2.0
Light Cyan	26-30	0.6
Green	31-35	2.8
Light Green	36-40	1.6
Bright Green	41-45	1.8
Yellow-Green	46-50	2.6
Yellow	51-75	6.7
Orange-Yellow	76-100	2.6
Orange	101-125	1.3
Red-Orange	126-150	1.0
Red	>150	1.6

Lake Elsinore 08/15/2006 Natural Color Image (Left) and Chl-a Scan (Right)



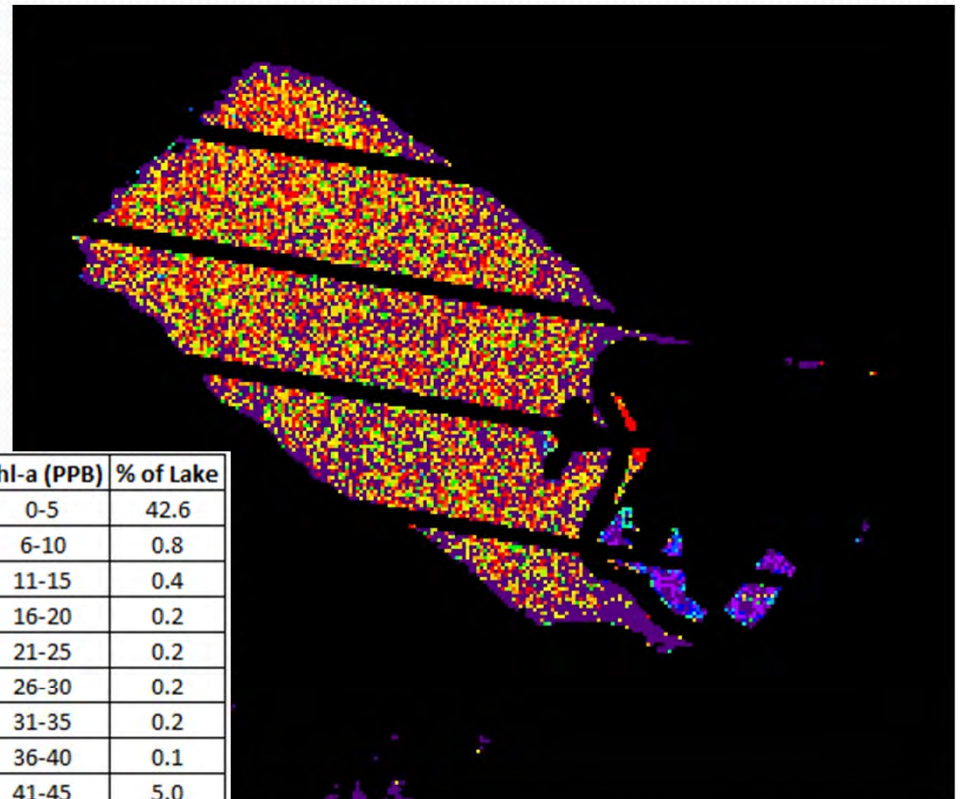
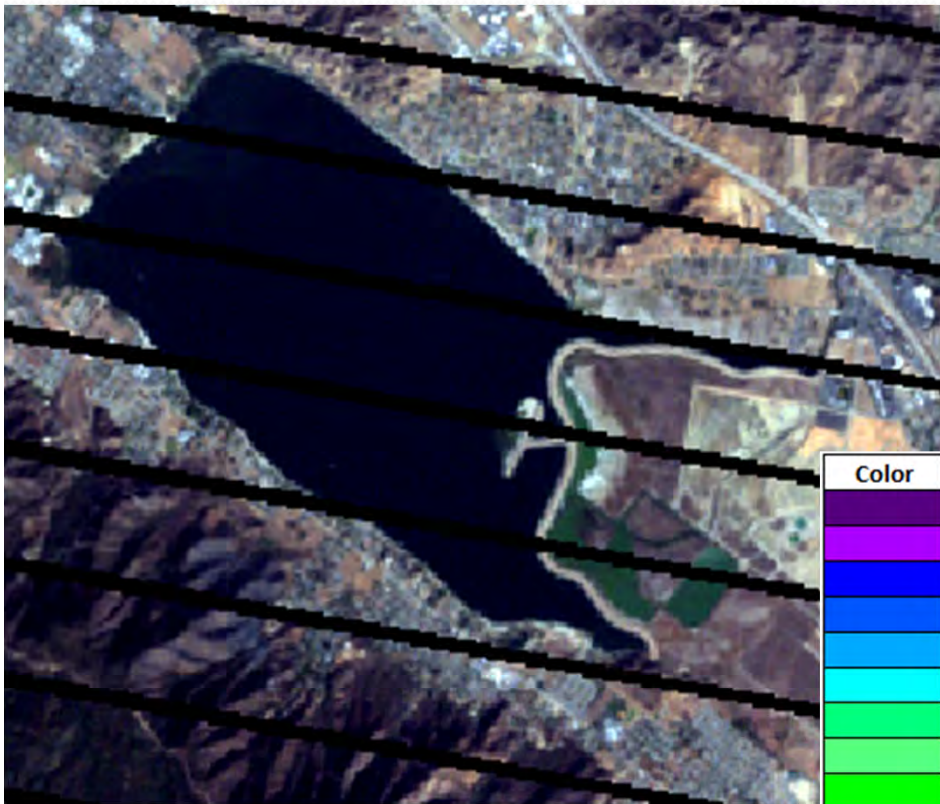
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	67.7
Light Purple	6-10	4.6
Blue	11-15	1.7
Light Blue	16-20	0.6
Cyan	21-25	0.3
Light Cyan	26-30	0.3
Green	31-35	0.1
Light Green	36-40	0.2
Bright Green	41-45	5.9
Yellow-Green	46-50	2.0
Yellow	51-75	9.3
Orange	76-100	3.1
Light Orange	101-125	1.7
Red-Orange	126-150	0.6
Red	>150	2.0

Lake Elsinore 10/10/2006 Natural Color Image (Left) and Chl-a Scan (Right)



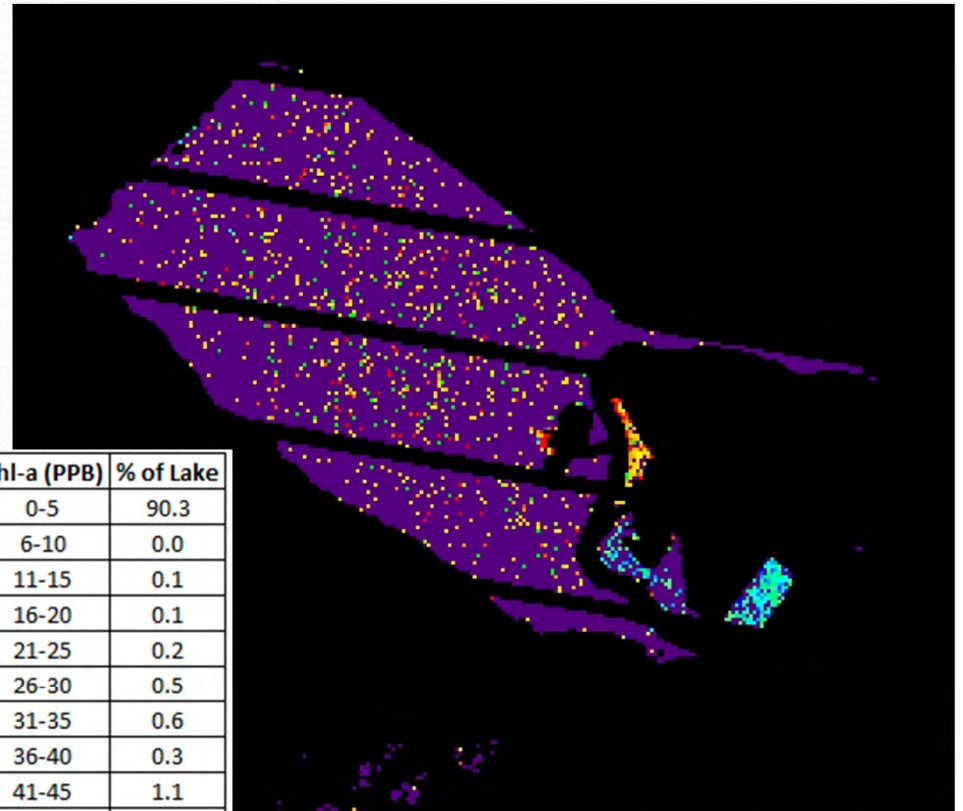
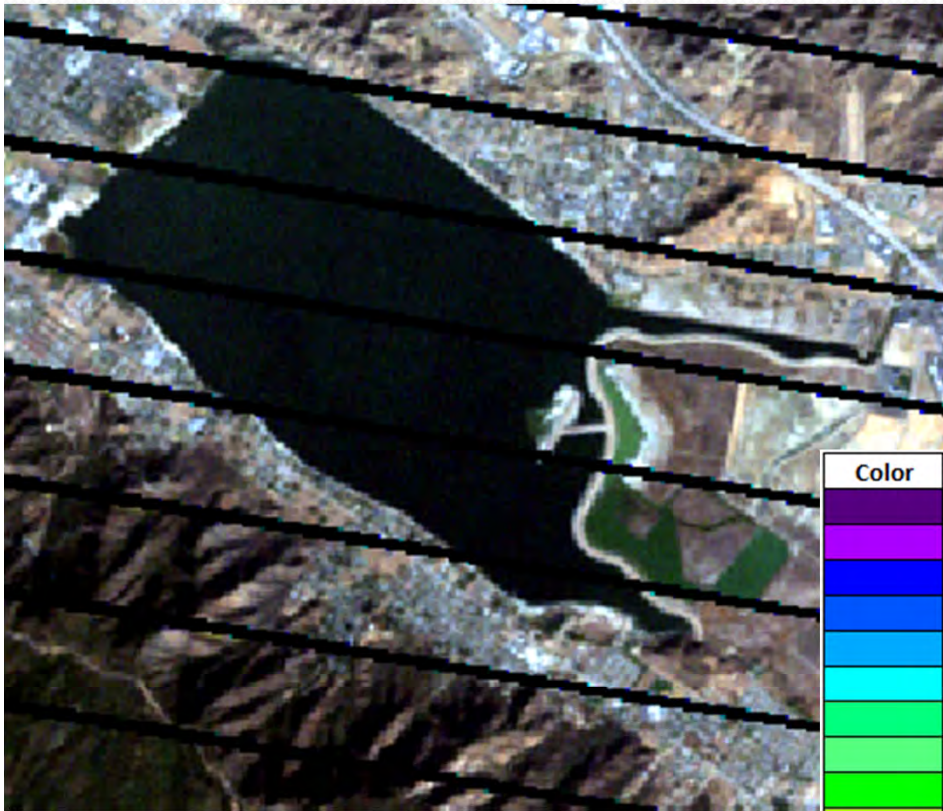
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	72.7
Light Purple	6-10	0.1
Blue	11-15	0.1
Light Blue	16-20	1.3
Cyan	21-25	0.6
Light Cyan	26-30	0.6
Green	31-35	3.1
Light Green	36-40	0.7
Bright Green	41-45	3.0
Yellow-Green	46-50	3.3
Yellow	51-75	10.6
Orange	76-100	3.2
Light Orange	101-125	0.6
Red-Orange	126-150	0.2
Red	>150	0.1

Lake Elsinore 11/19/2006 Natural Color Image (Left) and Chl-a Scan (Right)



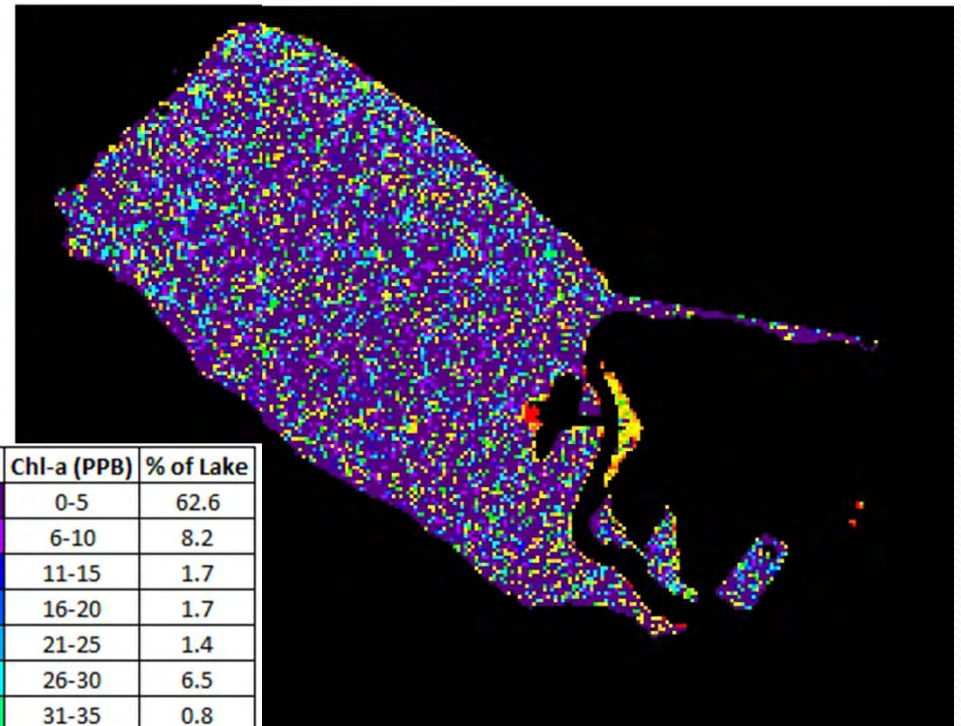
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	42.6
Light Purple	6-10	0.8
Blue	11-15	0.4
Light Blue	16-20	0.2
Cyan	21-25	0.2
Light Green	26-30	0.2
Green	31-35	0.2
Light Green	36-40	0.1
Bright Green	41-45	5.0
Yellow-Green	46-50	4.3
Yellow	51-75	6.0
Orange	76-100	12.7
Light Orange	101-125	5.1
Dark Orange	126-150	6.7
Red	>150	15.4

Lake Elsinore 12/05/2006 Natural Color Image (Left) and Chl-a Scan (Right)



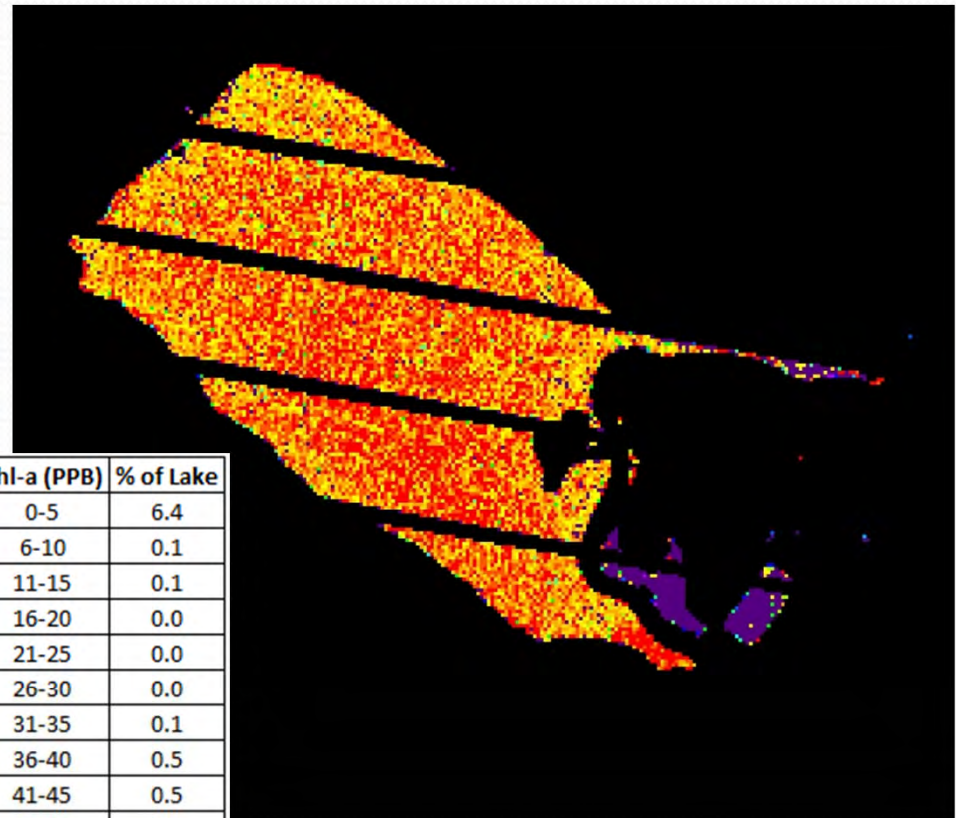
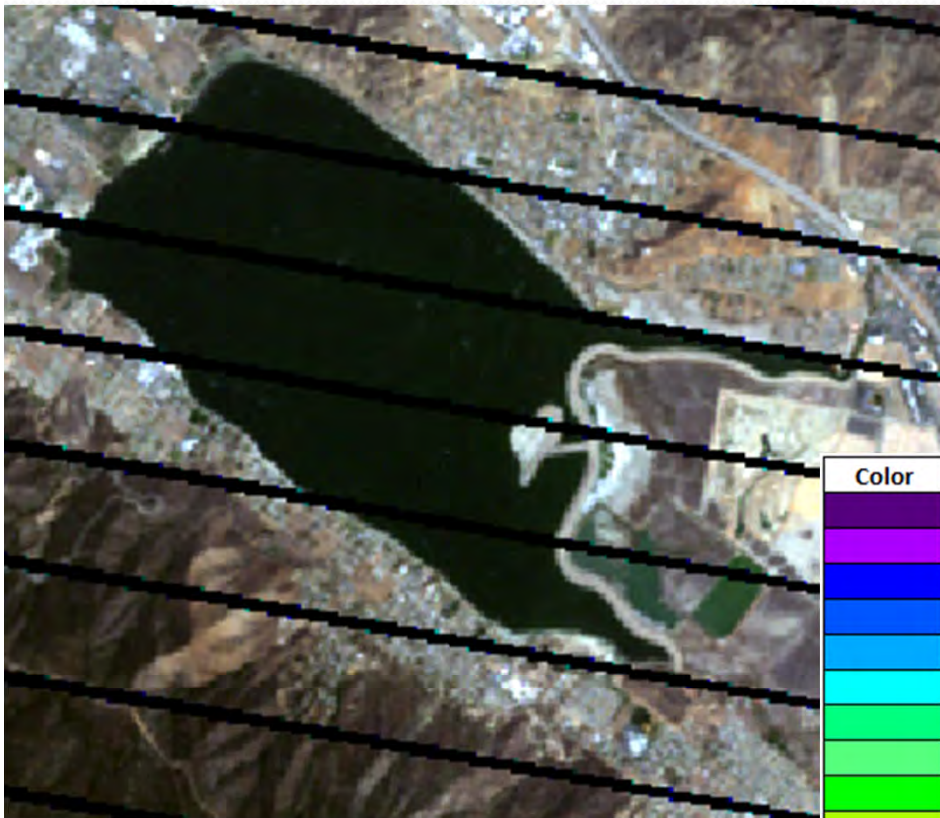
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	90.3
Light Purple	6-10	0.0
Blue	11-15	0.1
Light Blue	16-20	0.1
Cyan	21-25	0.2
Light Cyan	26-30	0.5
Green	31-35	0.6
Light Green	36-40	0.3
Bright Green	41-45	1.1
Yellow-Green	46-50	0.4
Yellow	51-75	2.9
Orange	76-100	1.6
Light Orange	101-125	0.7
Red-Orange	126-150	0.6
Red	>150	0.7

Lake Elsinore 02/15/2007 Natural Color Image (Left) and Chl-a Scan (Right)



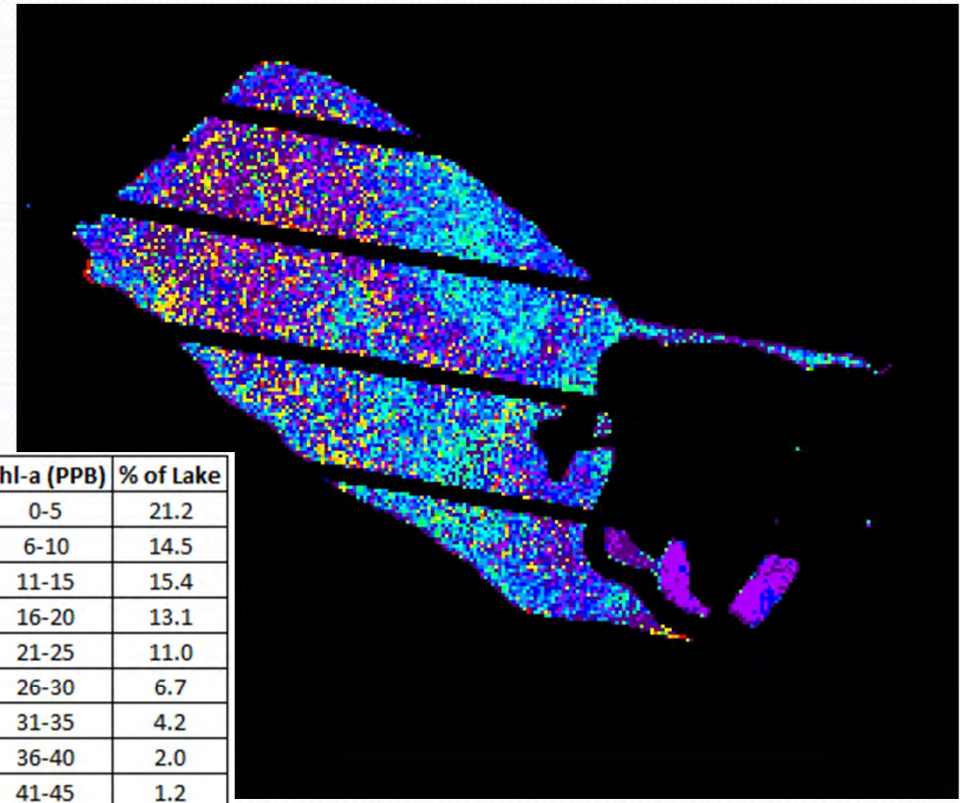
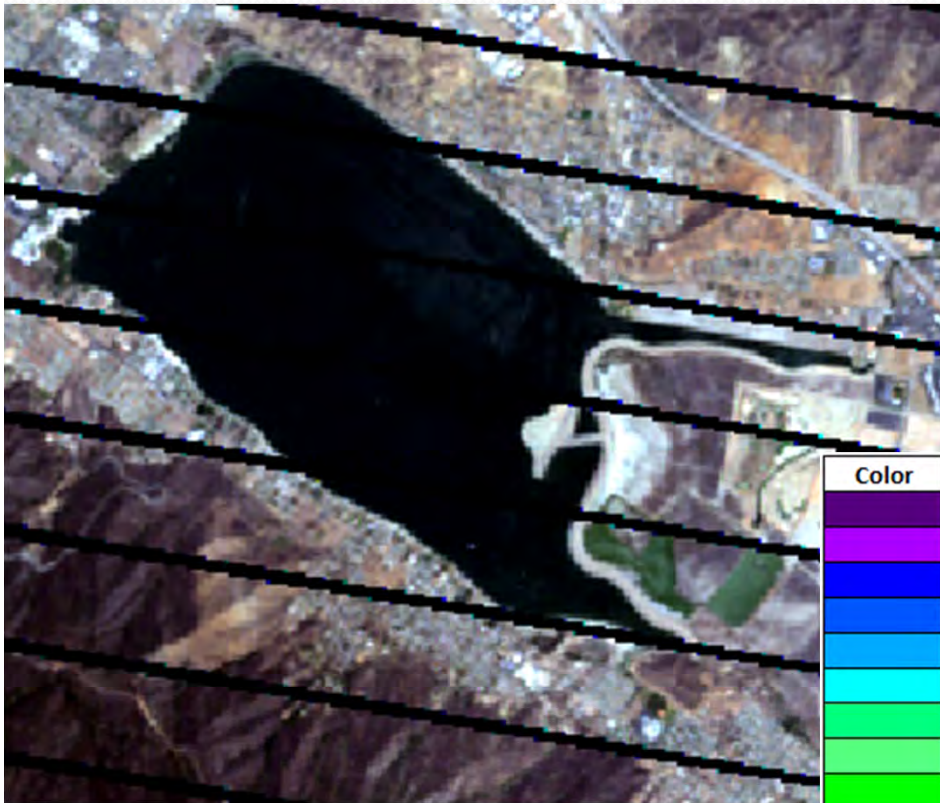
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	62.6
Medium Purple	6-10	8.2
Blue	11-15	1.7
Light Blue	16-20	1.7
Cyan	21-25	1.4
Light Cyan	26-30	6.5
Green	31-35	0.8
Light Green	36-40	1.1
Bright Green	41-45	4.4
Yellow-Green	46-50	2.2
Yellow	51-75	6.6
Orange-Yellow	76-100	1.8
Orange	101-125	0.5
Red-Orange	126-150	0.3
Red	>150	0.3

Lake Elsinore 04/28/2007 Natural Color Image (Left) and Chl-a Scan (Right)



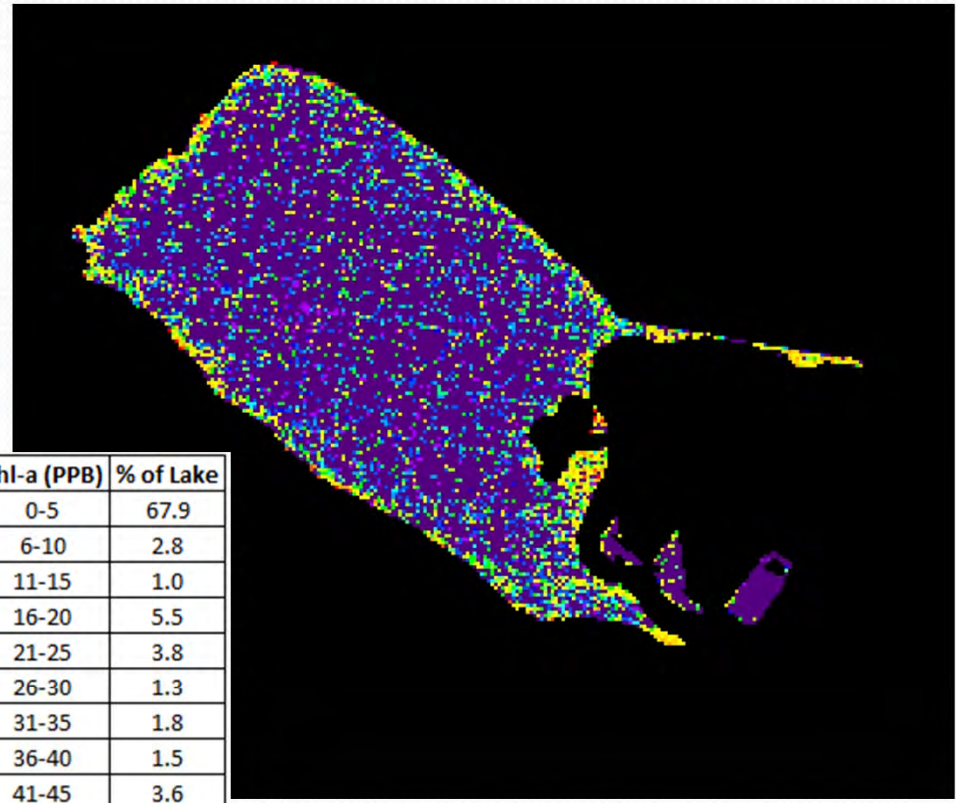
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	6.4
Light Purple	6-10	0.1
Blue	11-15	0.1
Light Blue	16-20	0.0
Cyan	21-25	0.0
Green	26-30	0.0
Light Green	31-35	0.1
Yellow-Green	36-40	0.5
Yellow	41-45	0.5
Light Yellow	46-50	0.9
Yellow-Orange	51-75	10.0
Orange	76-100	15.6
Dark Orange	101-125	19.3
Red-Orange	126-150	20.4
Red	>150	26.0

Lake Elsinore 06/15/2007 Natural Color Image (Left) and Chl-a Scan (Right)



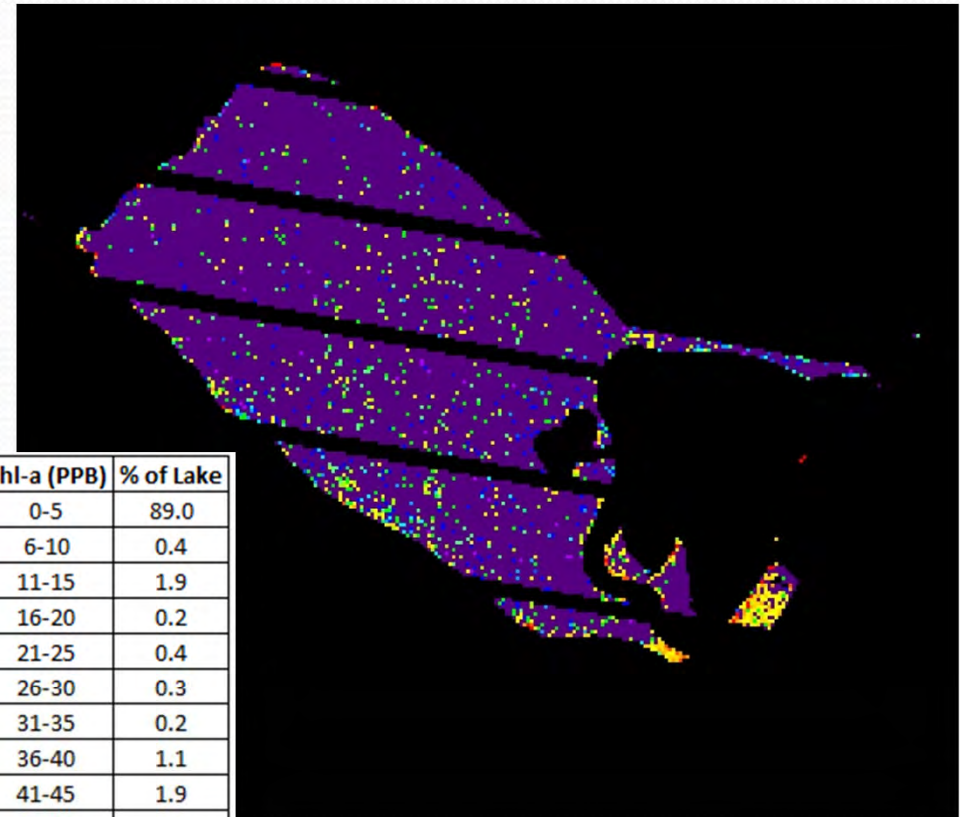
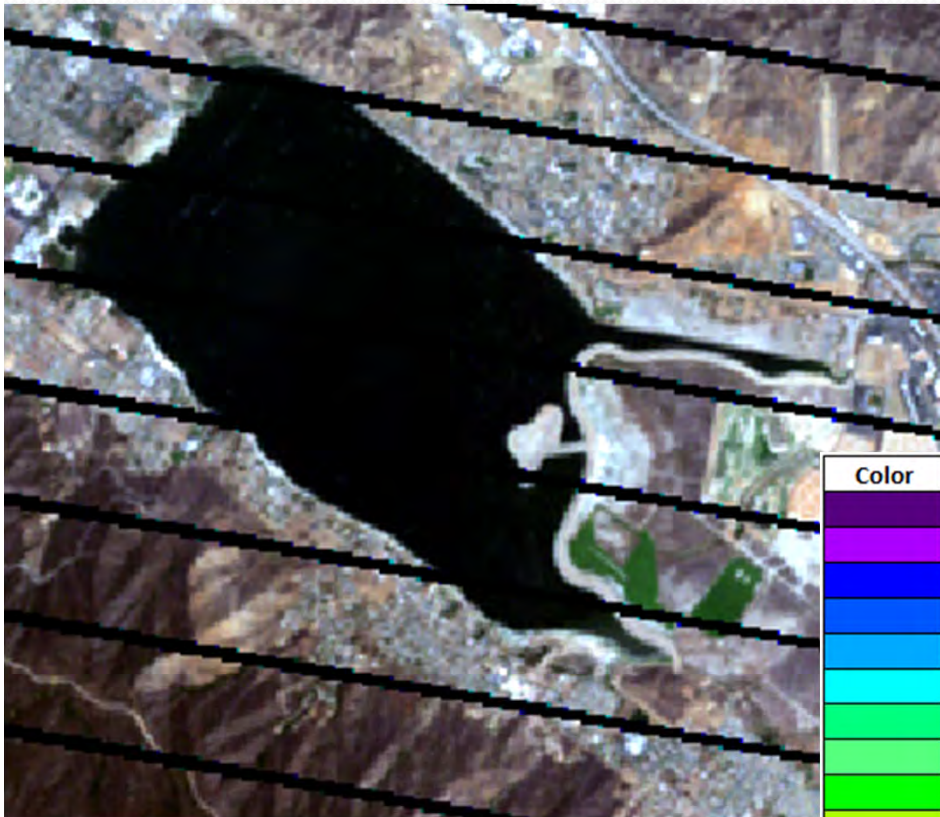
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	21.2
Medium Purple	6-10	14.5
Blue	11-15	15.4
Light Blue	16-20	13.1
Cyan	21-25	11.0
Light Cyan	26-30	6.7
Green	31-35	4.2
Light Green	36-40	2.0
Bright Green	41-45	1.2
Yellow-Green	46-50	0.8
Yellow	51-75	4.7
Orange	76-100	2.5
Light Orange	101-125	1.2
Dark Orange	126-150	0.5
Red	>150	1.0

Lake Elsinore 07/25/2007 Natural Color Image (Left) and Chl-a Scan (Right)



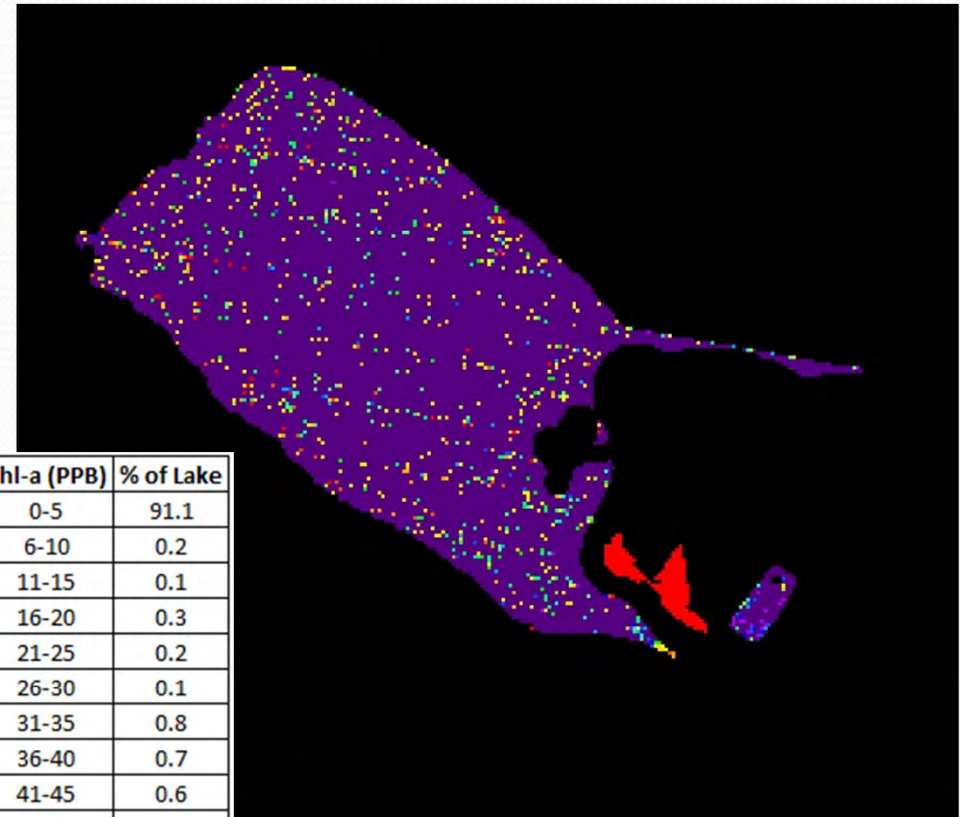
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	67.9
Purple	6-10	2.8
Blue-Purple	11-15	1.0
Blue	16-20	5.5
Cyan	21-25	3.8
Light Cyan	26-30	1.3
Green	31-35	1.8
Light Green	36-40	1.5
Bright Green	41-45	3.6
Yellow-Green	46-50	3.1
Yellow	51-75	5.4
Orange-Yellow	76-100	1.6
Orange	101-125	0.5
Red-Orange	126-150	0.1
Red	>150	0.1

Lake Elsinore 08/18/2007 Natural Color Image (Left) and Chl-a Scan (Right)



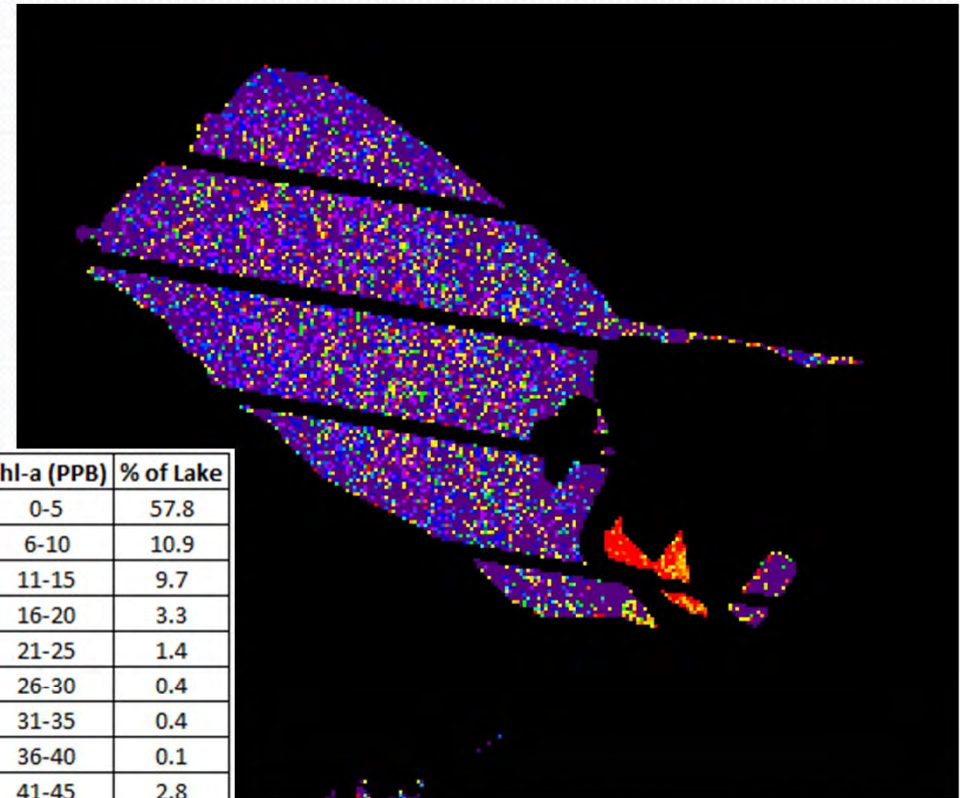
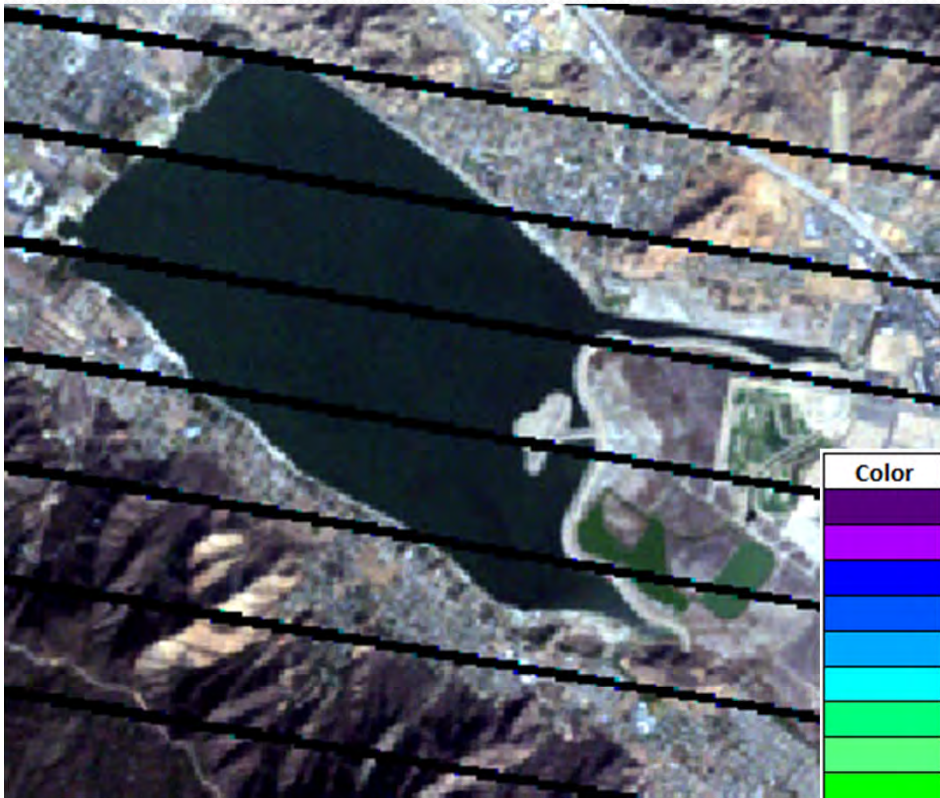
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	89.0
Light Purple	6-10	0.4
Blue	11-15	1.9
Light Blue	16-20	0.2
Cyan	21-25	0.4
Light Cyan	26-30	0.3
Green	31-35	0.2
Light Green	36-40	1.1
Yellow-Green	41-45	1.9
Yellow	46-50	1.1
Light Yellow	51-75	2.2
Orange	76-100	0.6
Dark Orange	101-125	0.3
Red-Orange	126-150	0.1
Red	>150	0.2

Lake Elsinore 09/11/2007 Natural Color Image (Left) and Chl-a Scan (Right)



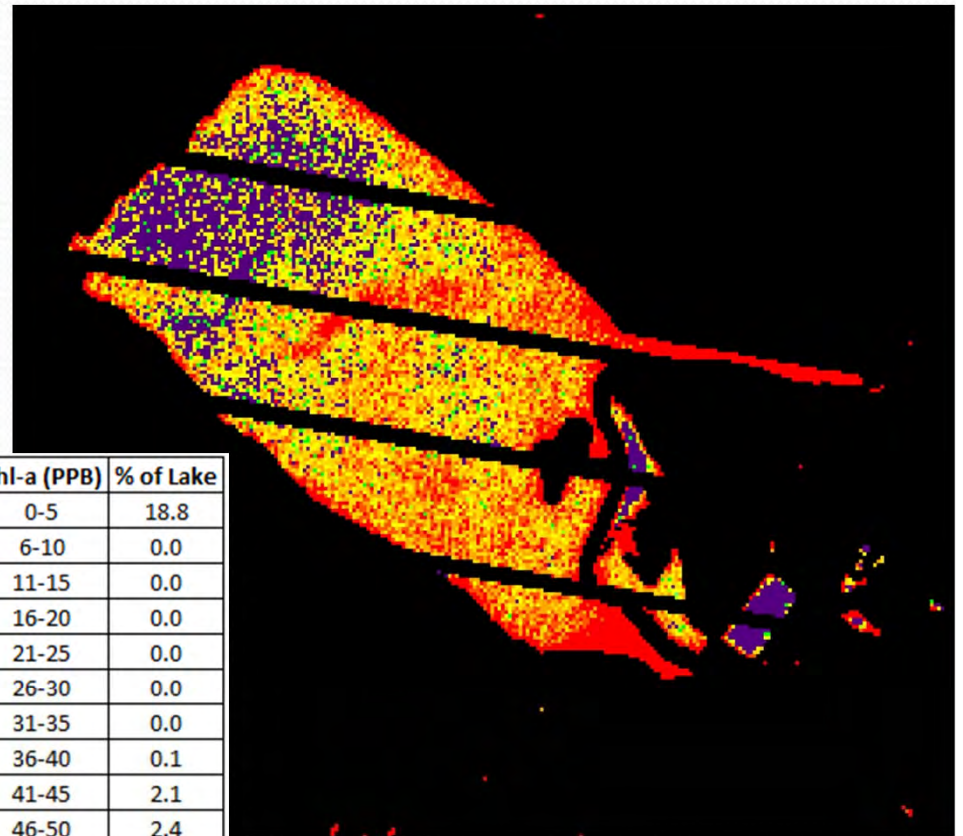
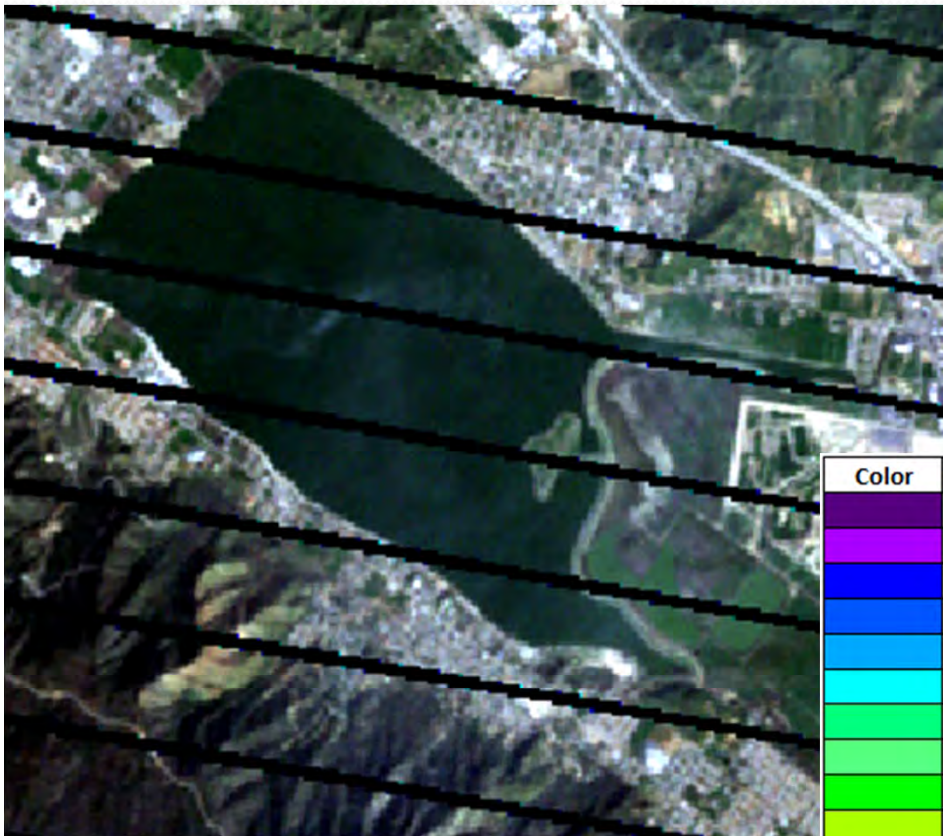
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	91.1
Light Purple	6-10	0.2
Blue	11-15	0.1
Light Blue	16-20	0.3
Cyan	21-25	0.2
Light Cyan	26-30	0.1
Green	31-35	0.8
Light Green	36-40	0.7
Bright Green	41-45	0.6
Yellow-Green	46-50	0.3
Yellow	51-75	2.1
Orange	76-100	0.9
Light Orange	101-125	0.5
Red-Orange	126-150	0.2
Red	>150	2.0

Lake Elsinore 11/22/2007 Natural Color Image (Left) and Chl-a Scan (Right)



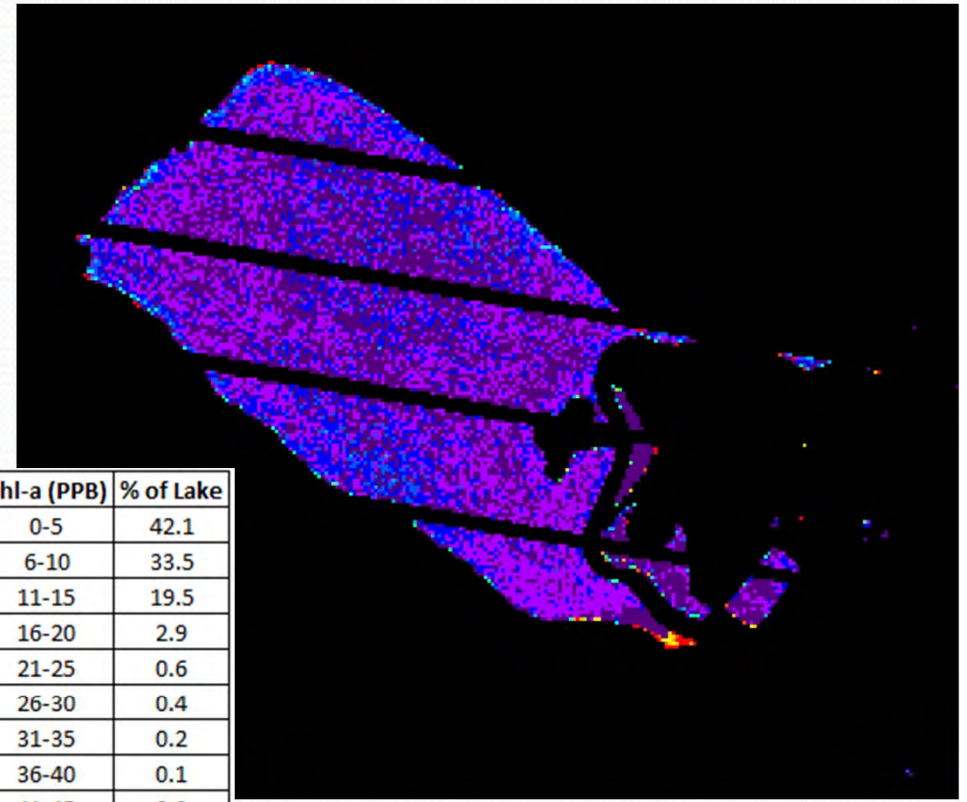
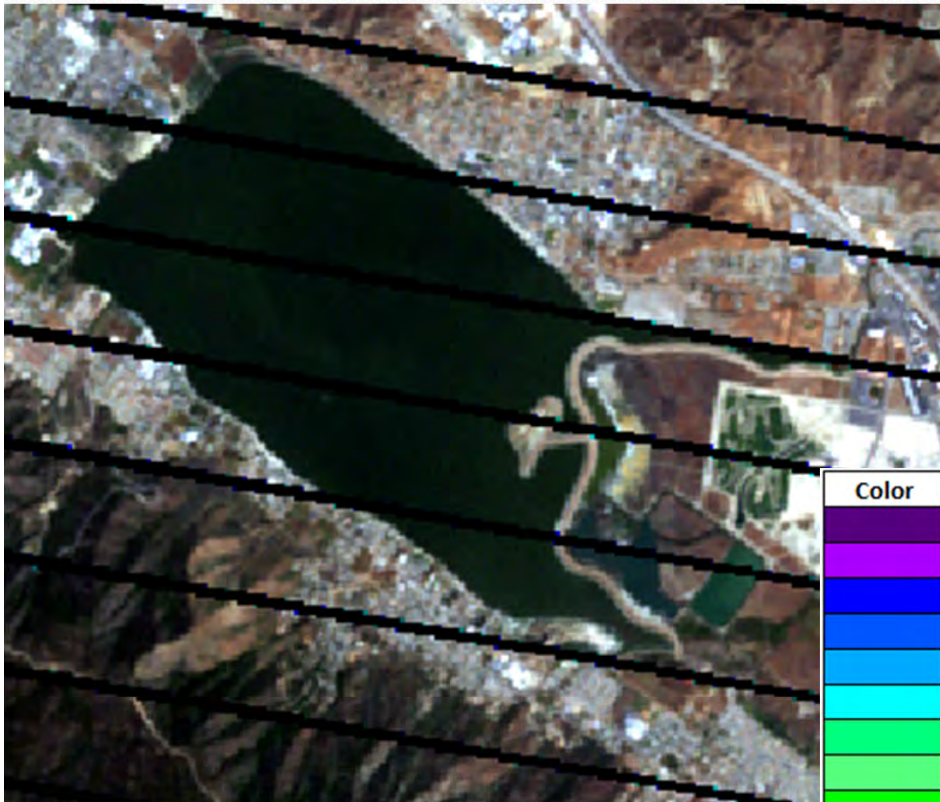
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	57.8
Medium Purple	6-10	10.9
Blue	11-15	9.7
Light Blue	16-20	3.3
Cyan	21-25	1.4
Light Cyan	26-30	0.4
Green	31-35	0.4
Light Green	36-40	0.1
Bright Green	41-45	2.8
Yellow-Green	46-50	1.0
Yellow	51-75	5.0
Orange	76-100	2.5
Light Orange	101-125	1.3
Red-Orange	126-150	1.0
Red	>150	2.4

Lake Elsinore 02/26/2008 Natural Color Image (Left) and Chl-a Scan (Right)



Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	18.8
Light Purple	6-10	0.0
Blue	11-15	0.0
Light Blue	16-20	0.0
Cyan	21-25	0.0
Green	26-30	0.0
Light Green	31-35	0.0
Yellow-Green	36-40	0.1
Yellow	41-45	2.1
Light Yellow	46-50	2.4
Yellow-Orange	51-75	14.1
Orange	76-100	17.5
Red-Orange	101-125	15.3
Red	126-150	12.0
Dark Red	>150	17.7

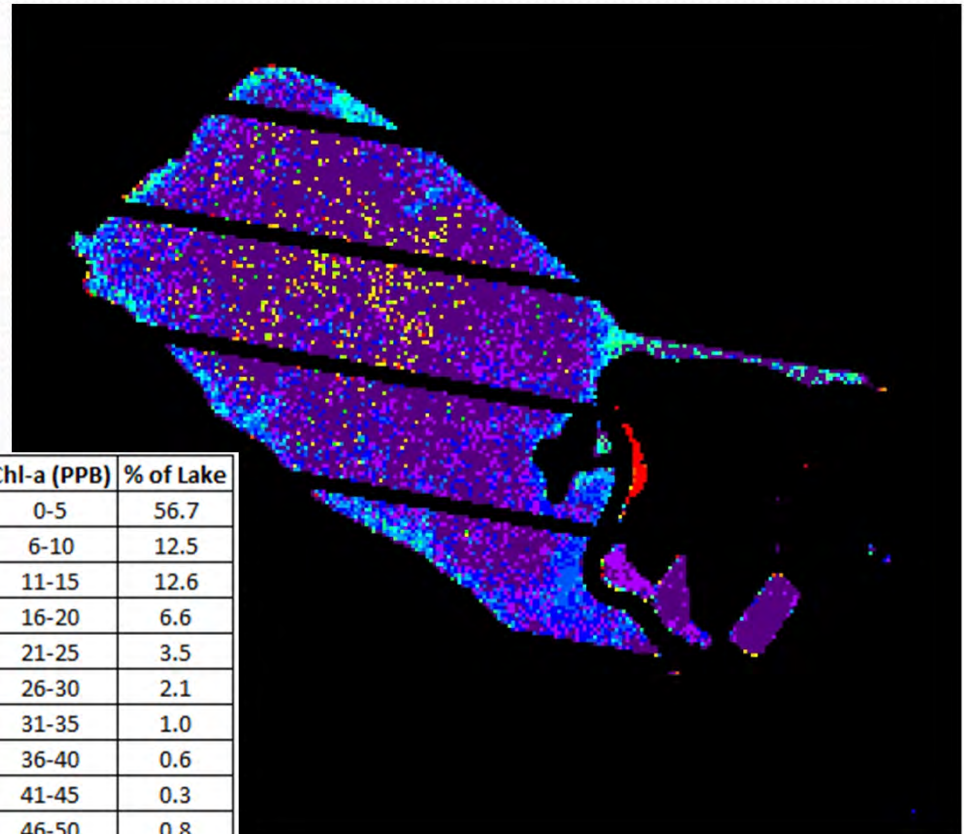
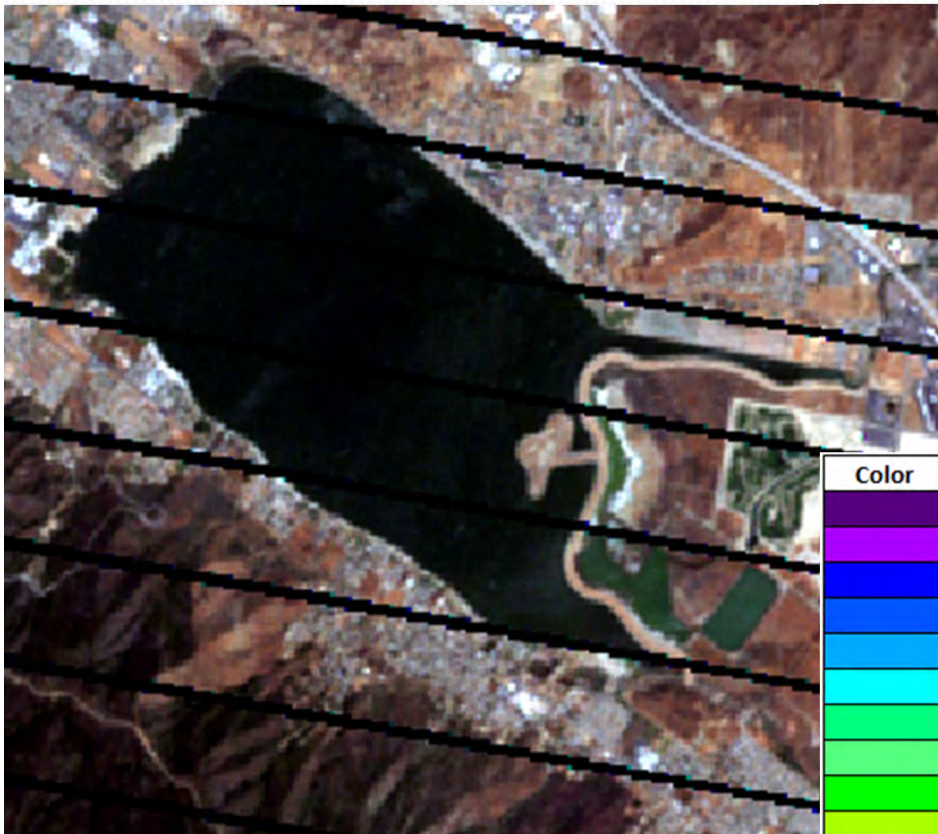
Lake Elsinore 04/14/2008 Natural Color Image (Left) and Chl-a Scan (Right)



Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	42.1
Medium Purple	6-10	33.5
Blue	11-15	19.5
Light Blue	16-20	2.9
Cyan	21-25	0.6
Light Cyan	26-30	0.4
Green	31-35	0.2
Light Green	36-40	0.1
Bright Green	41-45	0.0
Yellow-Green	46-50	0.0
Yellow	51-75	0.1
Orange	76-100	0.1
Light Orange	101-125	0.1
Red-Orange	126-150	0.1
Red	>150	0.4

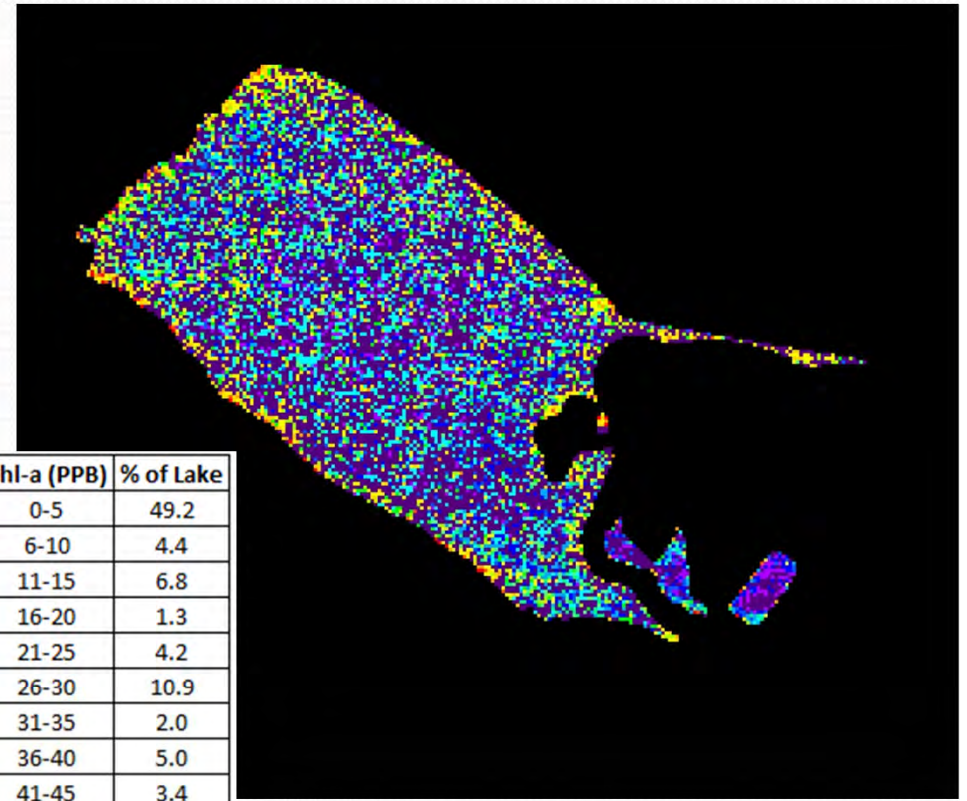
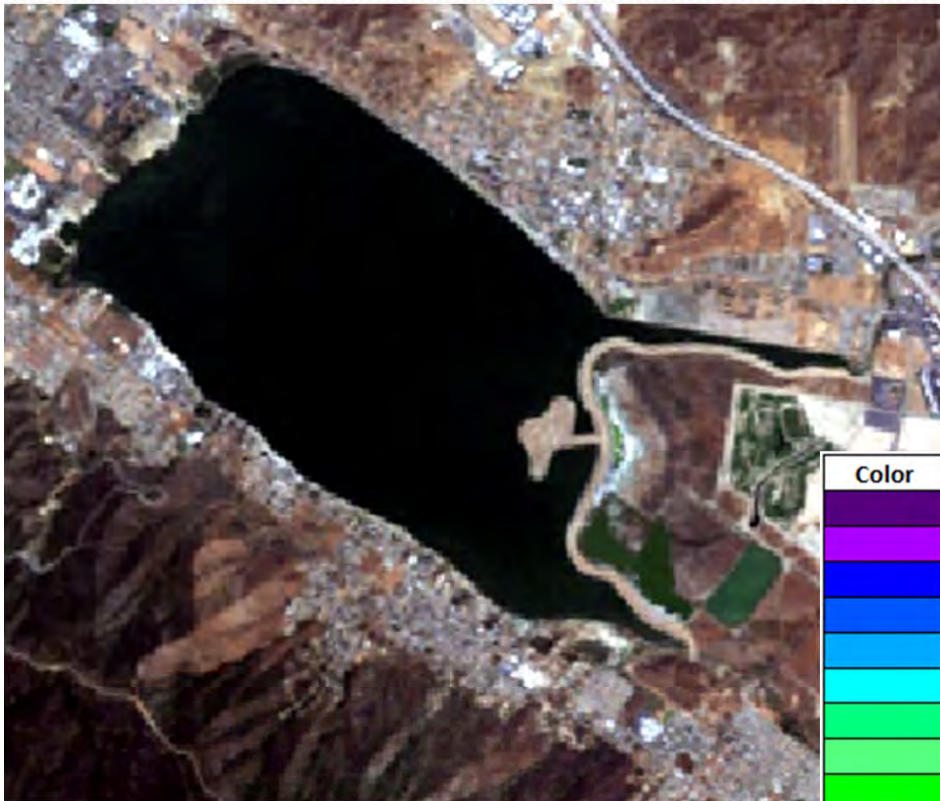
Lake Elsinore 05/16/2008 Natural Color Image (Left) and Chl-a Scan (Right)

(Elsinore data taken on satellite overpass date)



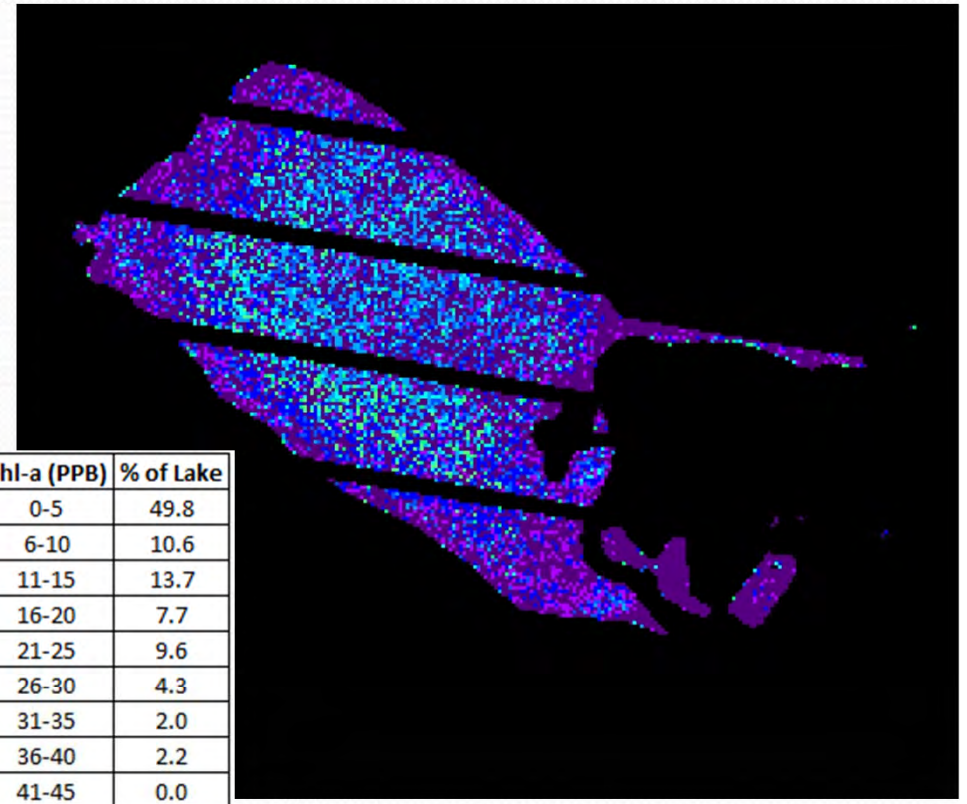
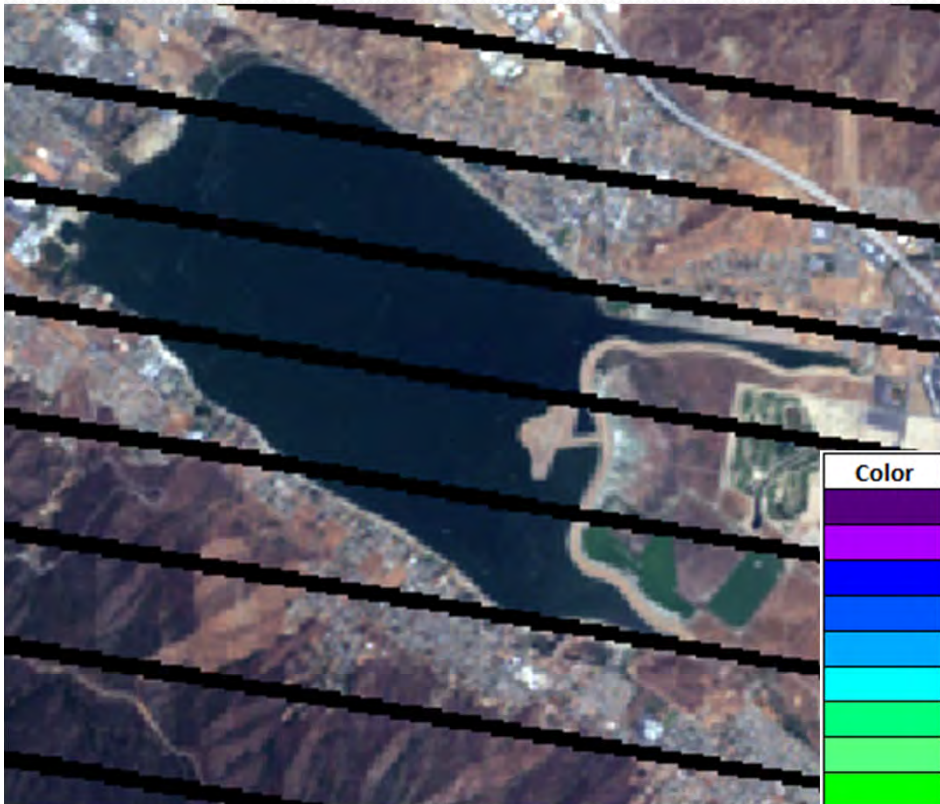
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	56.7
Purple	6-10	12.5
Blue-Purple	11-15	12.6
Blue	16-20	6.6
Cyan	21-25	3.5
Light Cyan	26-30	2.1
Green	31-35	1.0
Light Green	36-40	0.6
Bright Green	41-45	0.3
Yellow-Green	46-50	0.8
Yellow	51-75	1.2
Orange	76-100	0.9
Dark Orange	101-125	0.3
Red-Orange	126-150	0.2
Red	>150	0.6

Lake Elsinore 06/09/2008 Natural Color Image (Left) and Chl-a Scan (Right)



Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	49.2
Purple	6-10	4.4
Blue-Purple	11-15	6.8
Blue	16-20	1.3
Light Blue	21-25	4.2
Cyan	26-30	10.9
Green-Cyan	31-35	2.0
Green	36-40	5.0
Light Green	41-45	3.4
Yellow-Green	46-50	2.3
Yellow	51-75	7.1
Orange-Yellow	76-100	2.2
Orange	101-125	0.7
Red-Orange	126-150	0.2
Red	>150	0.3

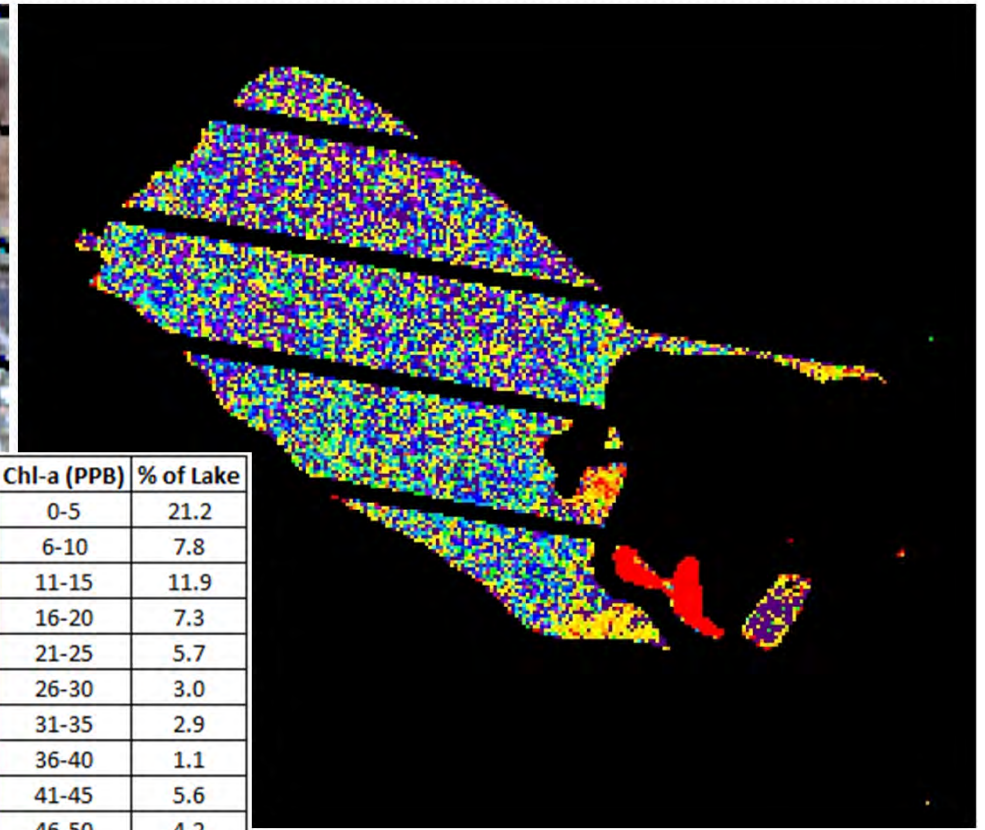
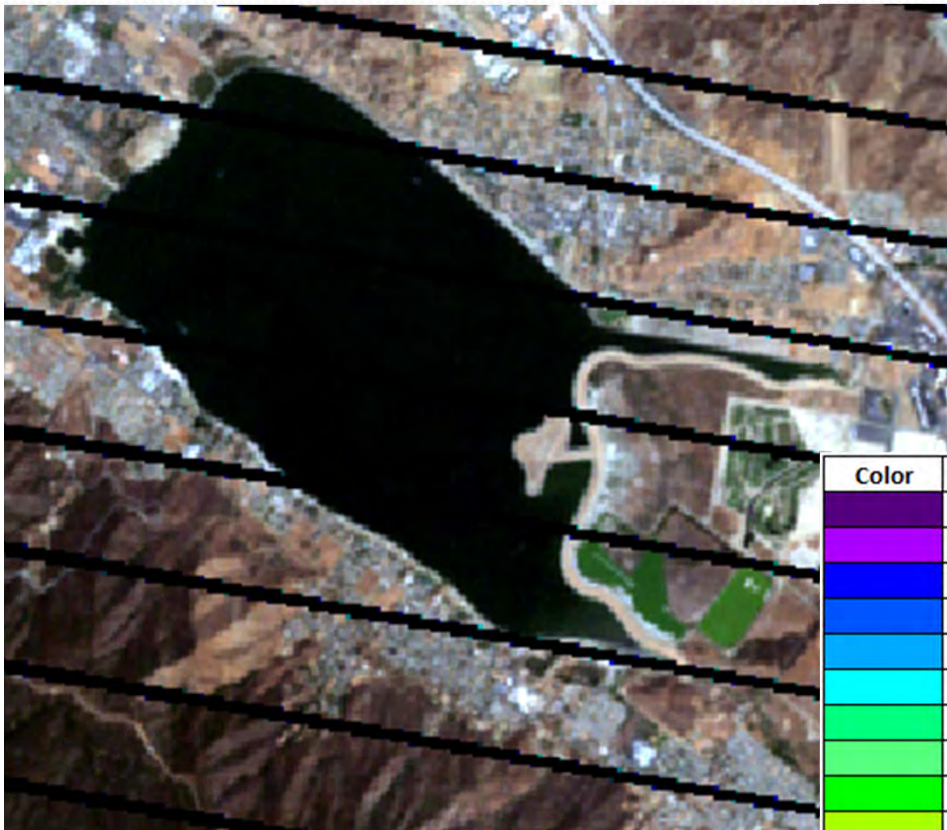
Lake Elsinore 07/19/2008 Natural Color Image (Left) and Chl-a Scan (Right)



Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	49.8
Light Purple	6-10	10.6
Blue	11-15	13.7
Light Blue	16-20	7.7
Cyan	21-25	9.6
Light Cyan	26-30	4.3
Green	31-35	2.0
Light Green	36-40	2.2
Bright Green	41-45	0.0
Yellow-Green	46-50	0.0
Yellow	51-75	0.0
Orange-Yellow	76-100	0.0
Orange	101-125	0.0
Red-Orange	126-150	0.0
Red	>150	0.0

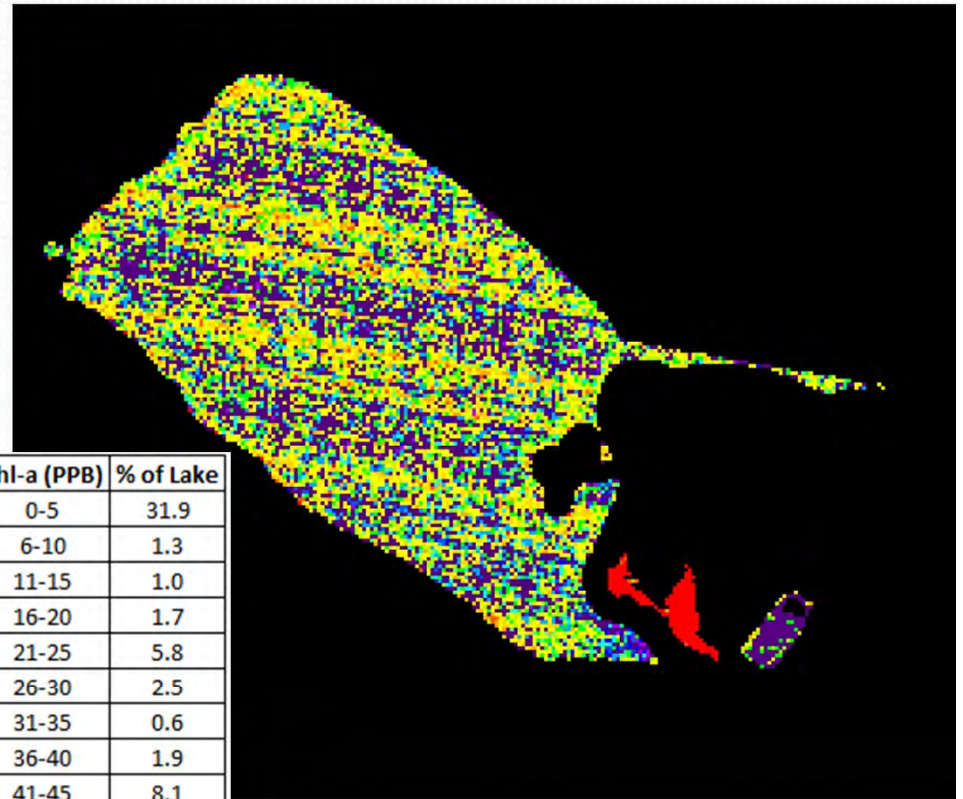
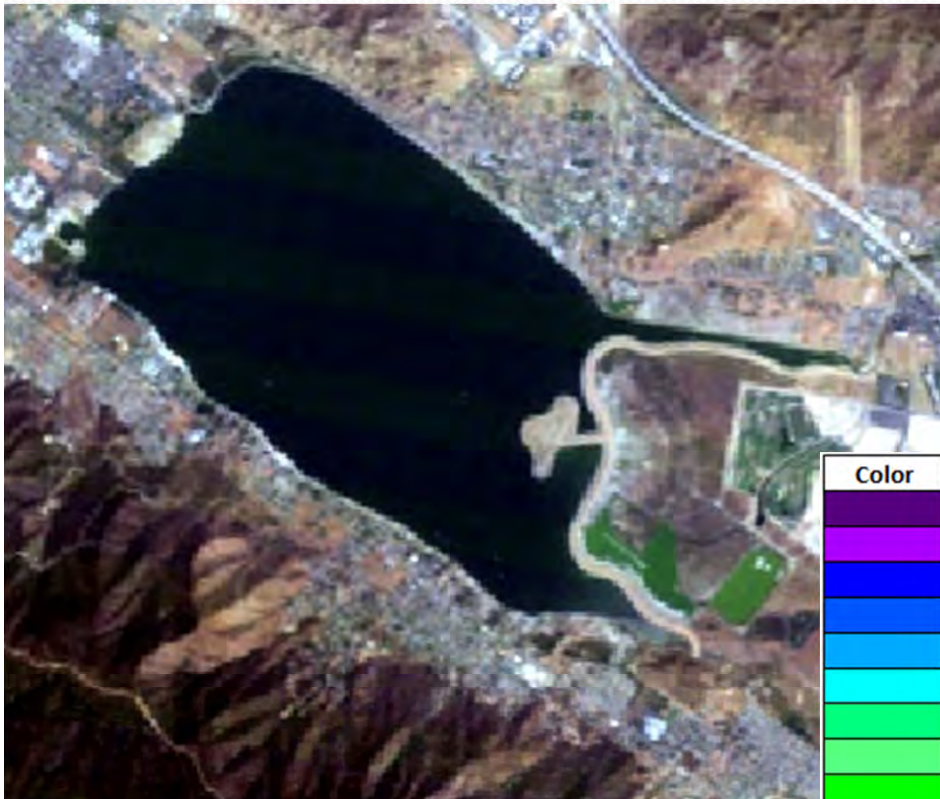
Lake Elsinore 08/20/2008 Natural Color Image (Left) and Chl-a Scan (Right)

(Elsinore data taken on satellite overpass date)



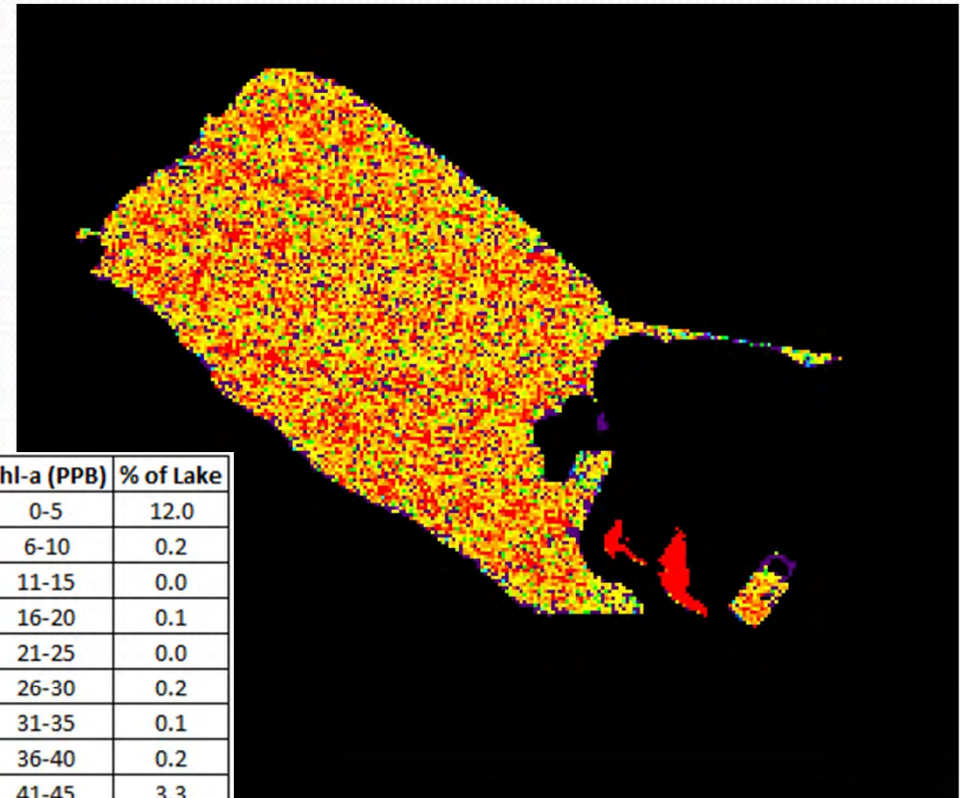
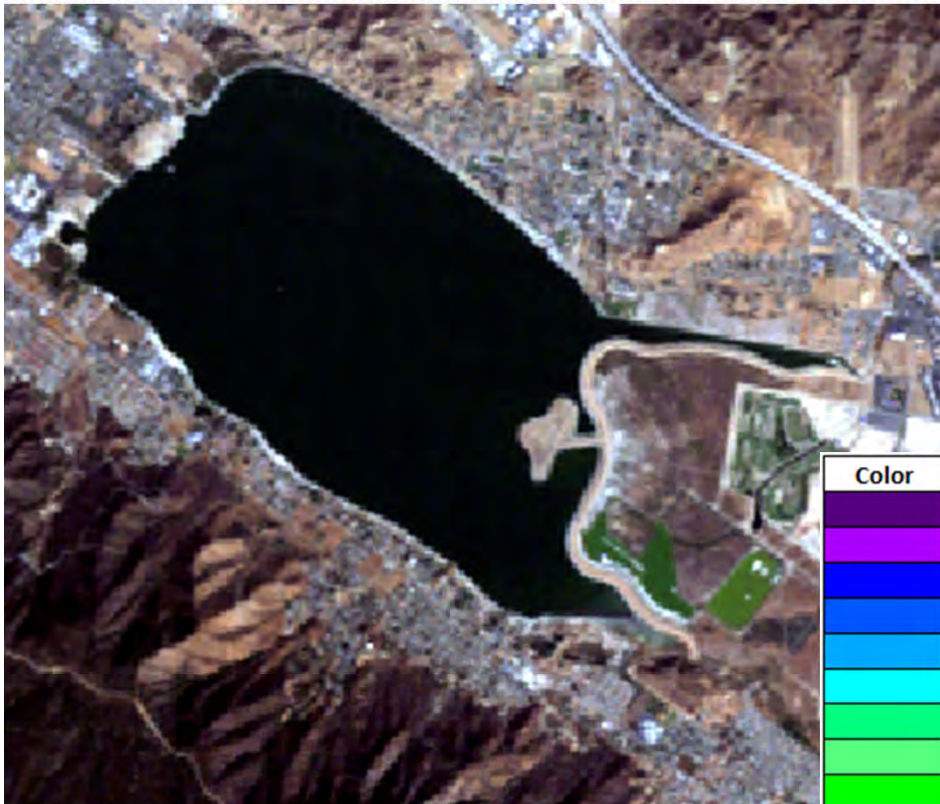
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	21.2
Light Purple	6-10	7.8
Blue	11-15	11.9
Light Blue	16-20	7.3
Cyan	21-25	5.7
Light Cyan	26-30	3.0
Green	31-35	2.9
Light Green	36-40	1.1
Bright Green	41-45	5.6
Yellow-Green	46-50	4.2
Yellow	51-75	17.2
Orange-Yellow	76-100	6.3
Orange	101-125	2.1
Red-Orange	126-150	0.8
Red	>150	2.9

Lake Elsinore 09/13/2008 Natural Color Image (Left) and Chl-a Scan (Right)



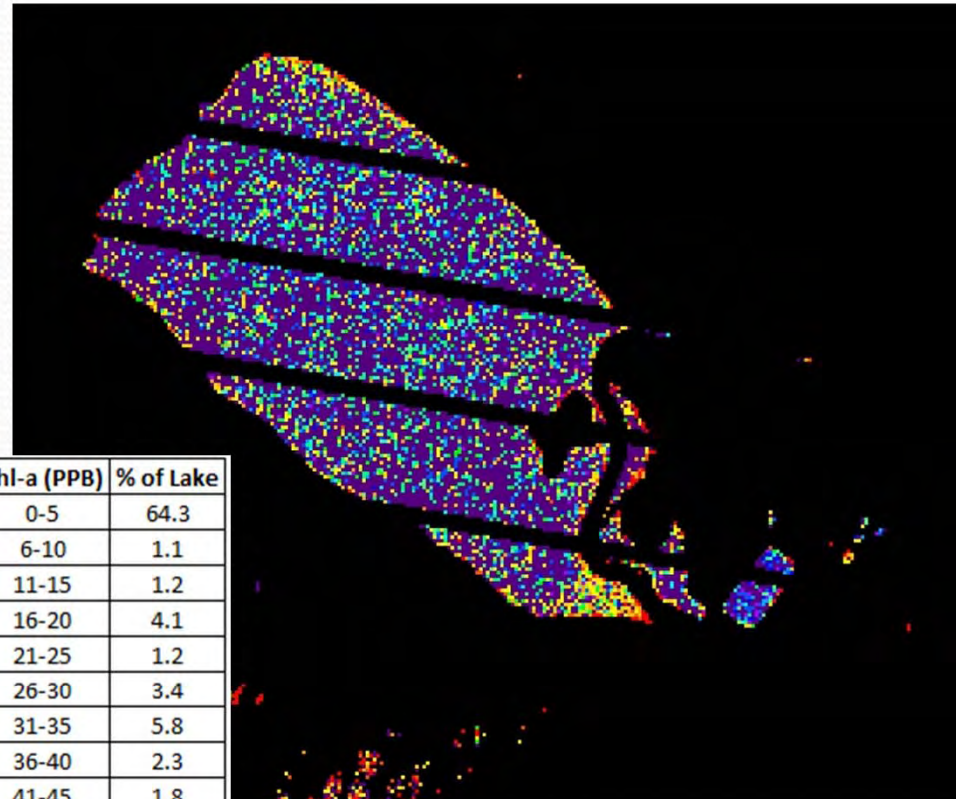
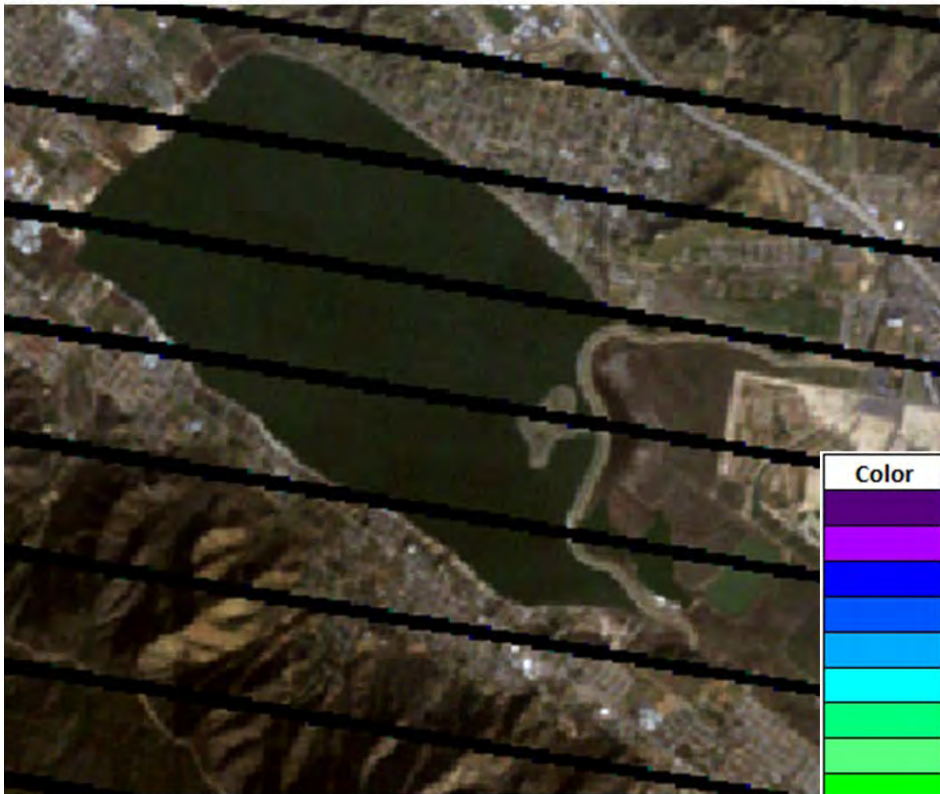
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	31.9
Light Purple	6-10	1.3
Blue	11-15	1.0
Light Blue	16-20	1.7
Cyan	21-25	5.8
Light Green	26-30	2.5
Green	31-35	0.6
Light Green	36-40	1.9
Bright Green	41-45	8.1
Yellow-Green	46-50	6.8
Yellow	51-75	24.5
Orange	76-100	8.9
Light Orange	101-125	2.7
Red-Orange	126-150	0.8
Red	>150	1.7

Lake Elsinore 10/15/2008 Natural Color Image (Left) and Chl-a Scan (Right)



Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	12.0
Light Purple	6-10	0.2
Blue	11-15	0.0
Light Blue	16-20	0.1
Cyan	21-25	0.0
Light Cyan	26-30	0.2
Green	31-35	0.1
Light Green	36-40	0.2
Bright Green	41-45	3.3
Yellow-Green	46-50	3.6
Yellow	51-75	16.4
Orange-Yellow	76-100	19.2
Orange	101-125	14.9
Red-Orange	126-150	12.6
Red	>150	17.1

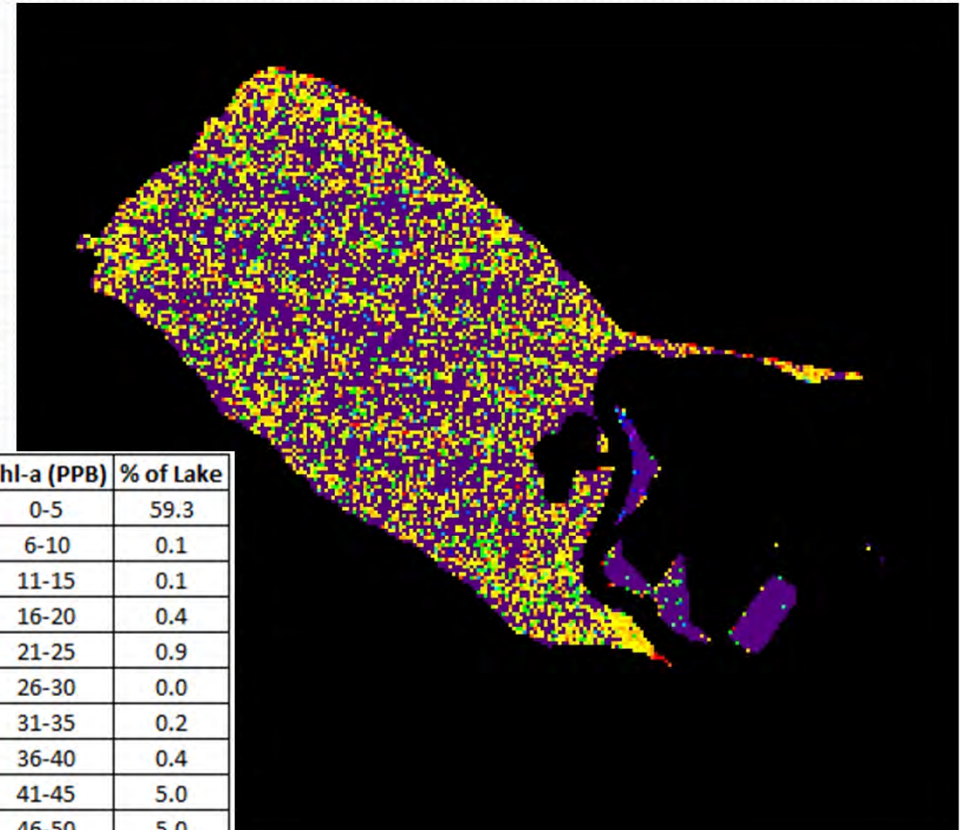
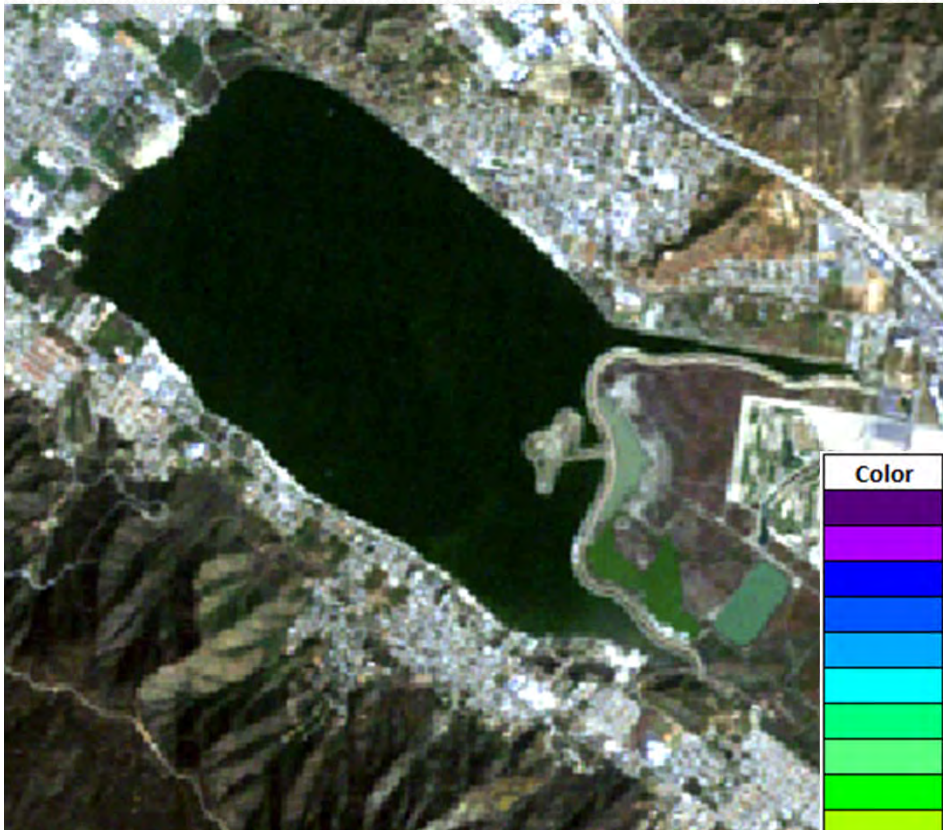
Lake Elsinore 01/11/2009 Natural Color Image (Left) and Chl-a Scan (Right)



Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	64.3
Light Purple	6-10	1.1
Blue	11-15	1.2
Light Blue	16-20	4.1
Cyan	21-25	1.2
Light Cyan	26-30	3.4
Green	31-35	5.8
Light Green	36-40	2.3
Bright Green	41-45	1.8
Yellow-Green	46-50	1.4
Yellow	51-75	6.1
Orange-Yellow	76-100	2.8
Orange	101-125	1.5
Red-Orange	126-150	0.9
Red	>150	2.2

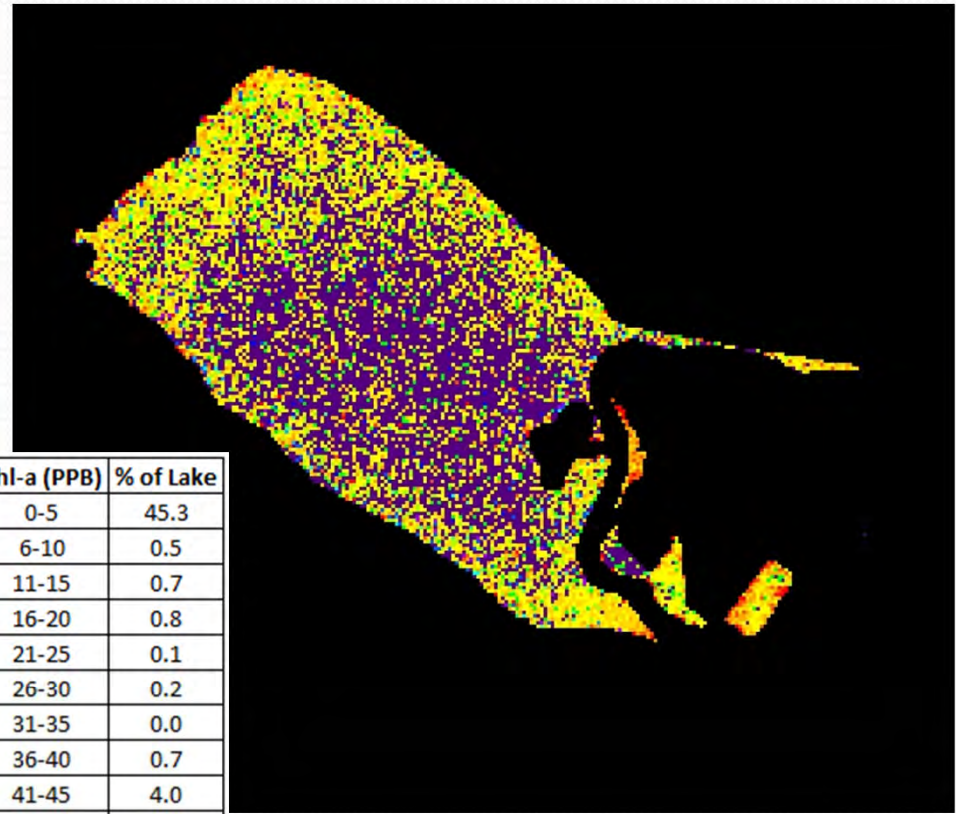
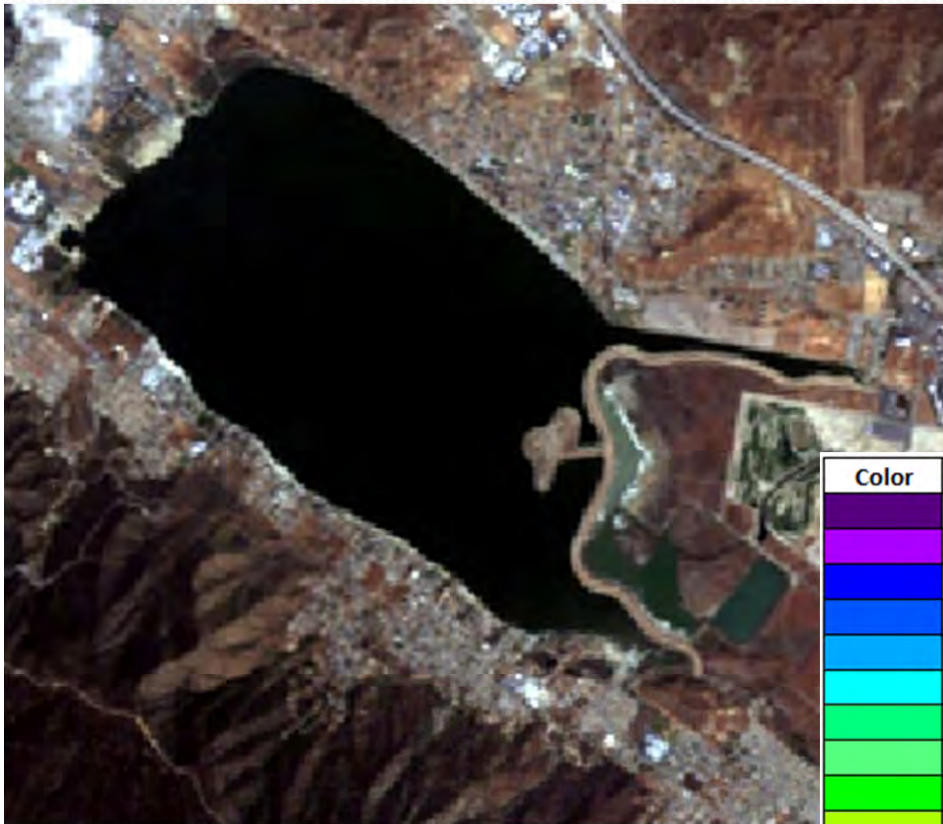
Lake Elsinore 03/24/2009 Natural Color Image (Left) and Chl-a Scan (Right)

(Elsinore data taken on satellite overpass date)



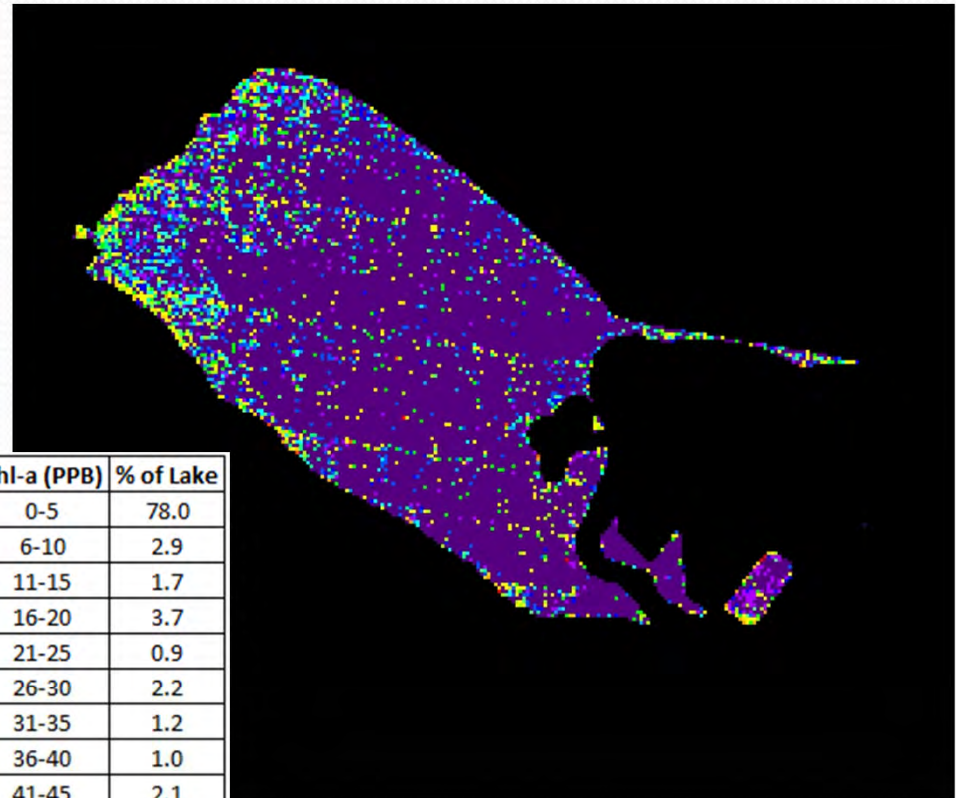
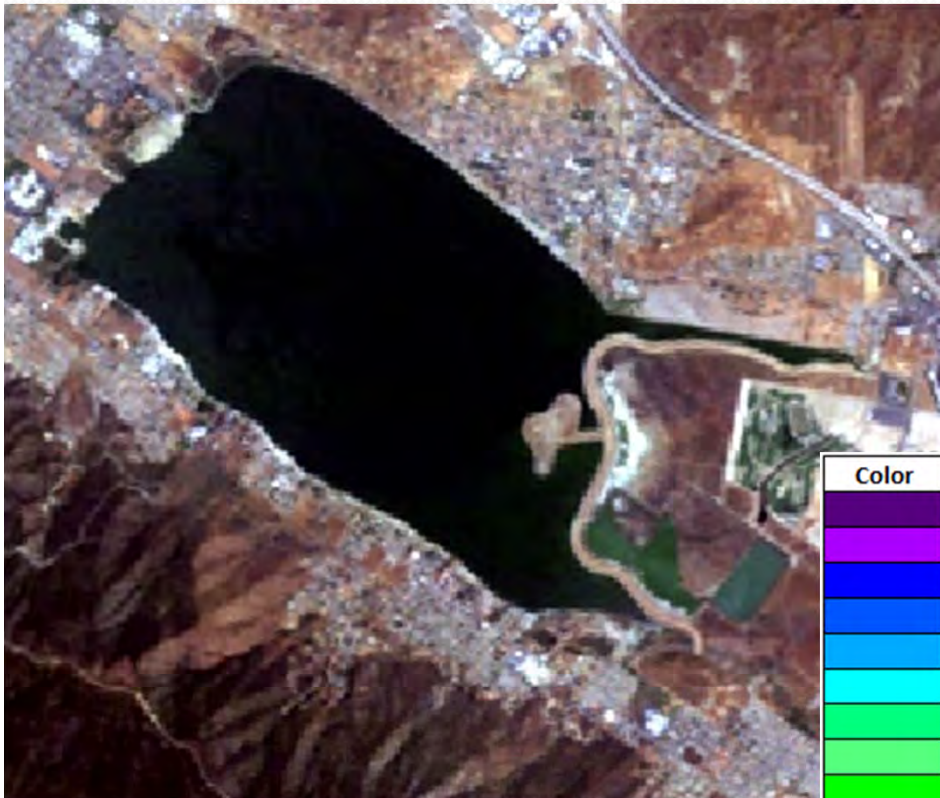
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	59.3
Purple	6-10	0.1
Blue	11-15	0.1
Light Blue	16-20	0.4
Cyan	21-25	0.9
Light Cyan	26-30	0.0
Green	31-35	0.2
Light Green	36-40	0.4
Bright Green	41-45	5.0
Yellow-Green	46-50	5.0
Yellow	51-75	15.7
Orange	76-100	7.5
Red-Orange	101-125	3.4
Red	126-150	1.3
Dark Red	>150	0.6

Lake Elsinore 04/25/2009 Natural Color Image (Left) and Chl-a Scan (Right)



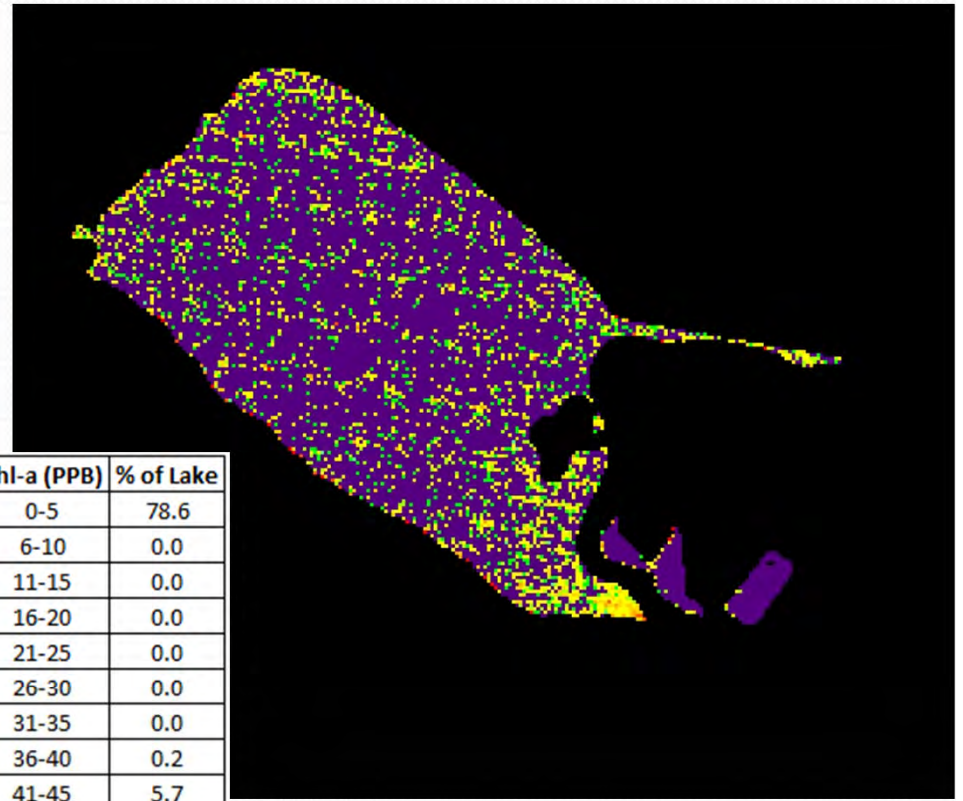
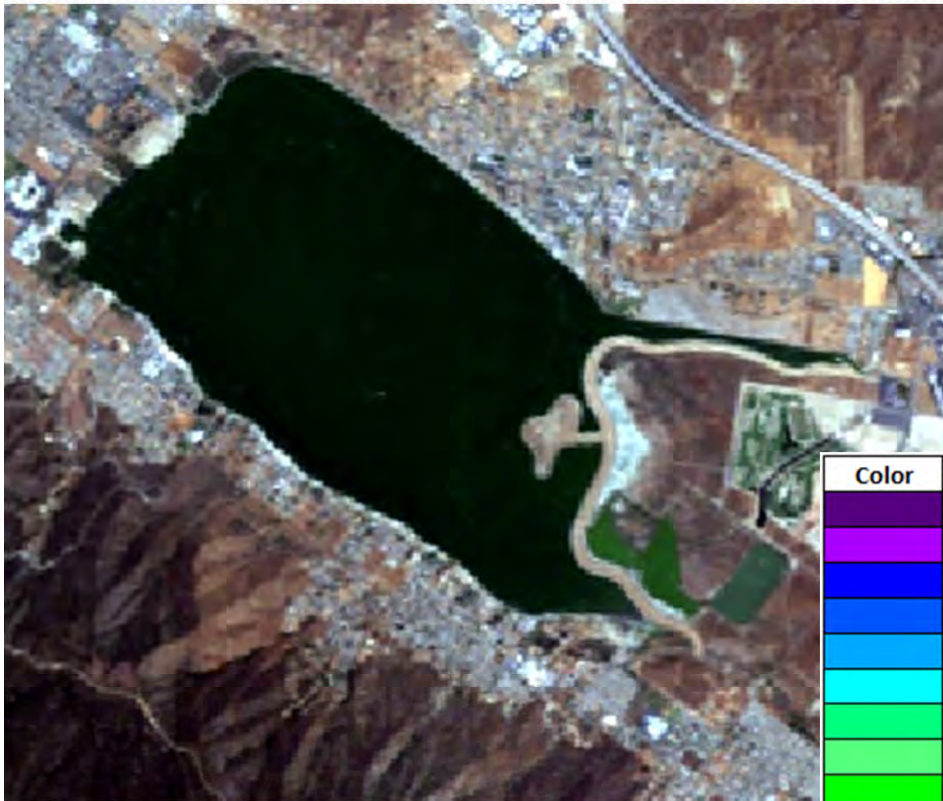
Color	Chl-a (PPB)	% of Lake
Purple	0-5	45.3
Blue-Violet	6-10	0.5
Blue	11-15	0.7
Light Blue	16-20	0.8
Cyan	21-25	0.1
Light Cyan	26-30	0.2
Green	31-35	0.0
Light Green	36-40	0.7
Yellow-Green	41-45	4.0
Yellow	46-50	6.2
Orange-Yellow	51-75	22.6
Orange	76-100	11.9
Red-Orange	101-125	4.4
Red	126-150	1.7
Dark Red	>150	0.9

Lake Elsinore 05/27/2009 Natural Color Image (Left) and Chl-a Scan (Right)



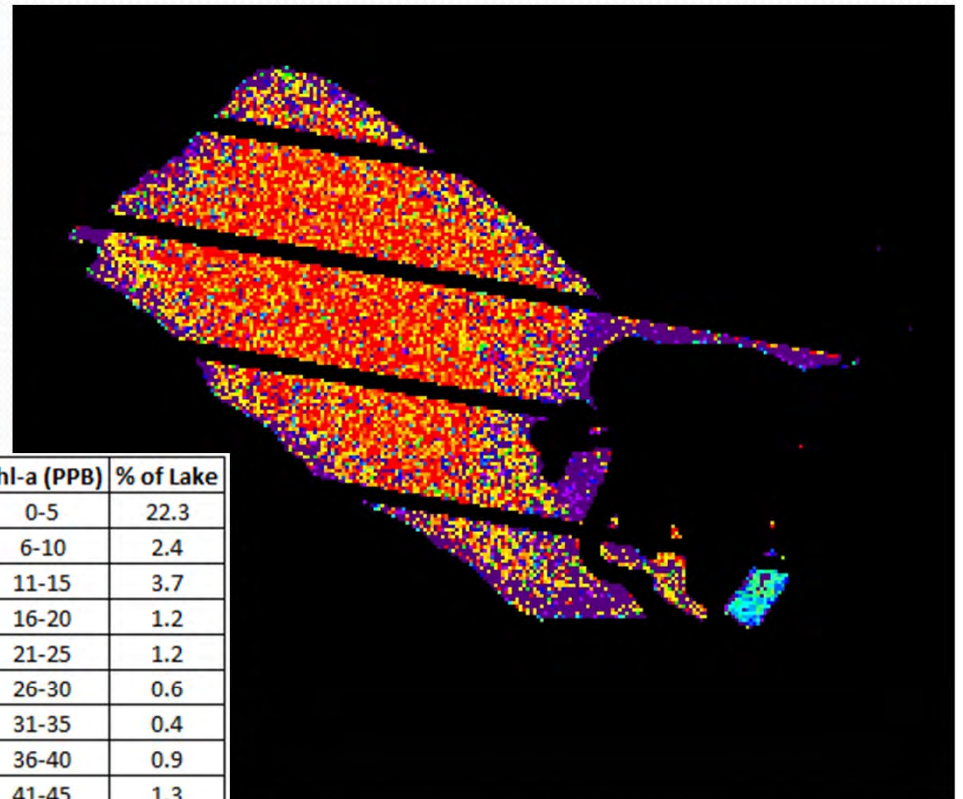
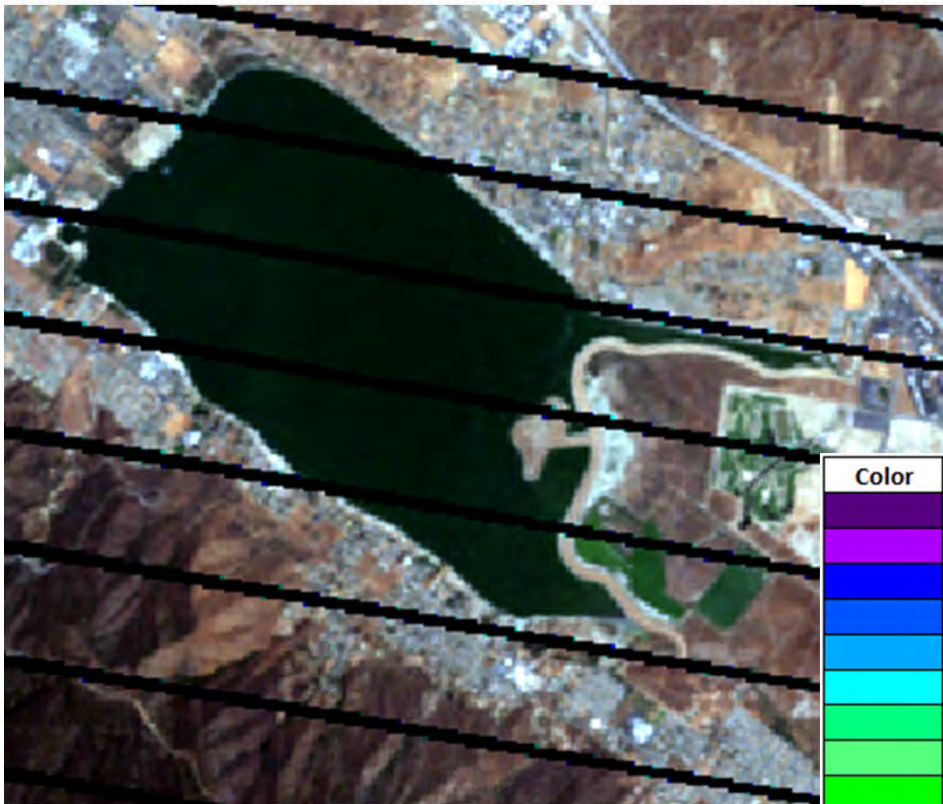
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	78.0
Purple	6-10	2.9
Blue-Purple	11-15	1.7
Blue	16-20	3.7
Light Blue	21-25	0.9
Cyan	26-30	2.2
Green-Cyan	31-35	1.2
Green	36-40	1.0
Light Green	41-45	2.1
Yellow-Green	46-50	1.7
Yellow	51-75	3.5
Orange-Yellow	76-100	0.6
Orange	101-125	0.2
Red-Orange	126-150	0.1
Red	>150	0.0

Lake Elsinore 06/28/2009 Natural Color Image (Left) and Chl-a Scan (Right)



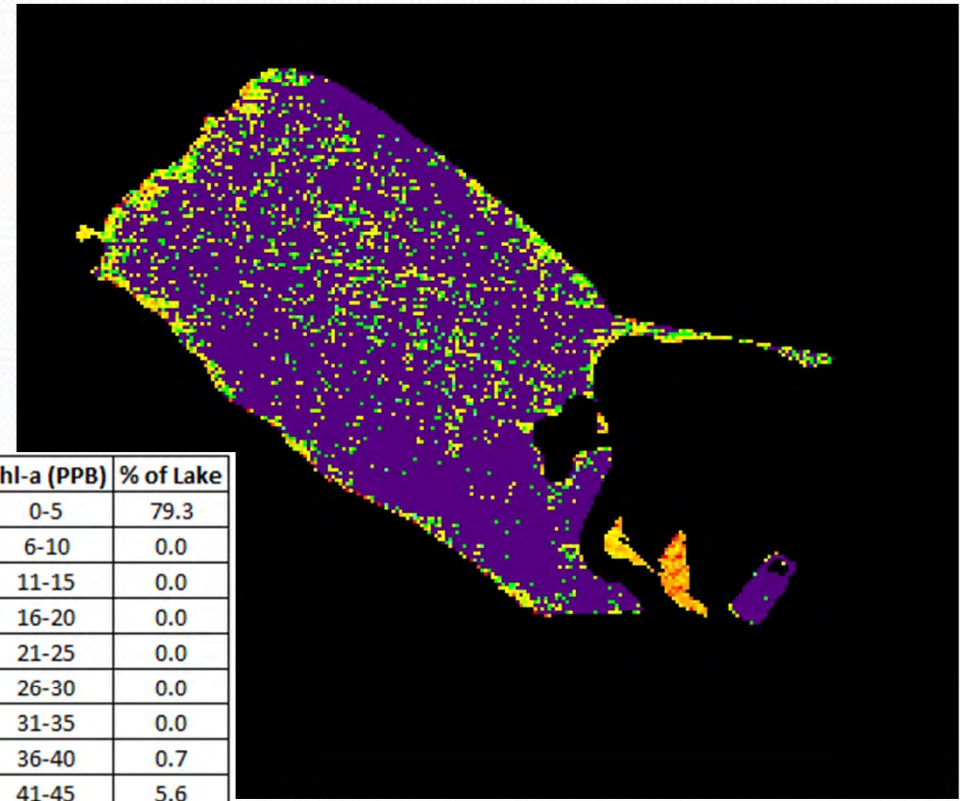
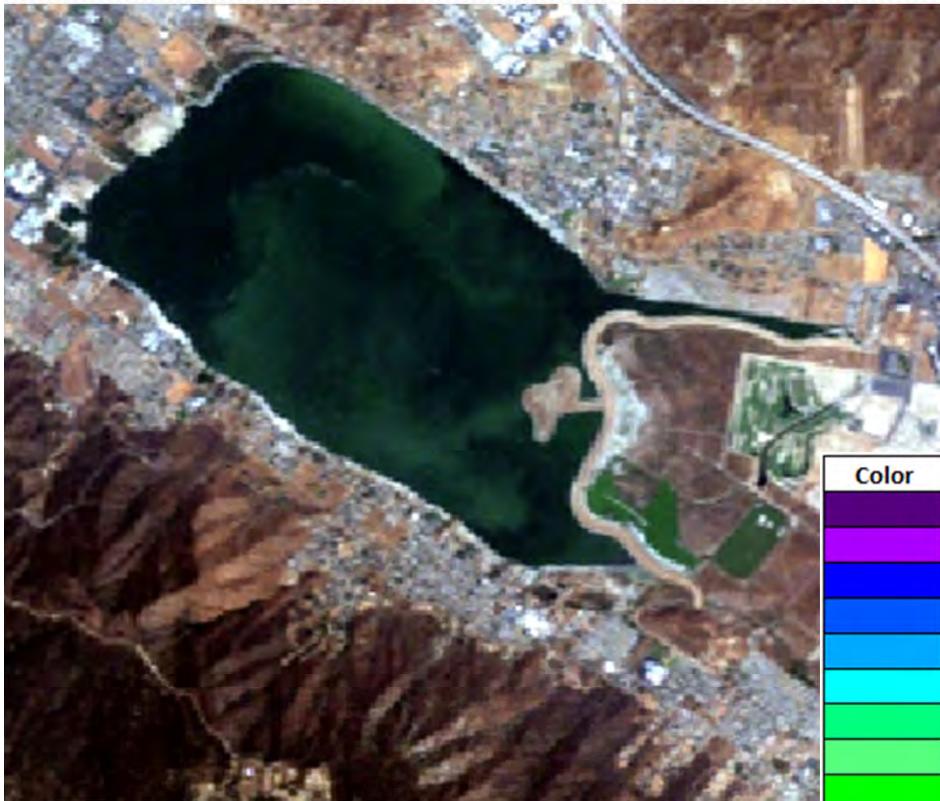
Color	Chl-a (PPB)	% of Lake
Purple	0-5	78.6
Blue	6-10	0.0
Light Blue	11-15	0.0
Blue	16-20	0.0
Cyan	21-25	0.0
Cyan	26-30	0.0
Green	31-35	0.0
Light Green	36-40	0.2
Green	41-45	5.7
Yellow-Green	46-50	3.7
Yellow	51-75	9.3
Orange	76-100	1.8
Orange	101-125	0.4
Red-Orange	126-150	0.1
Red	>150	0.2

Lake Elsinore 07/22/2009 Natural Color Image (Left) and Chl-a Scan (Right)



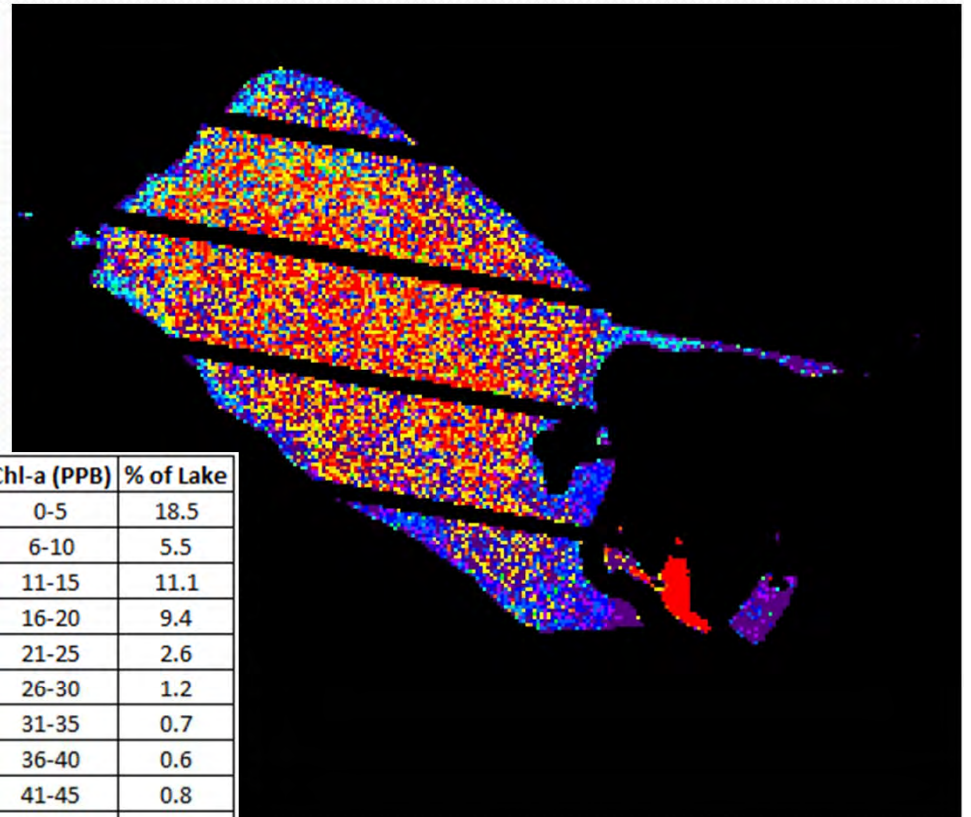
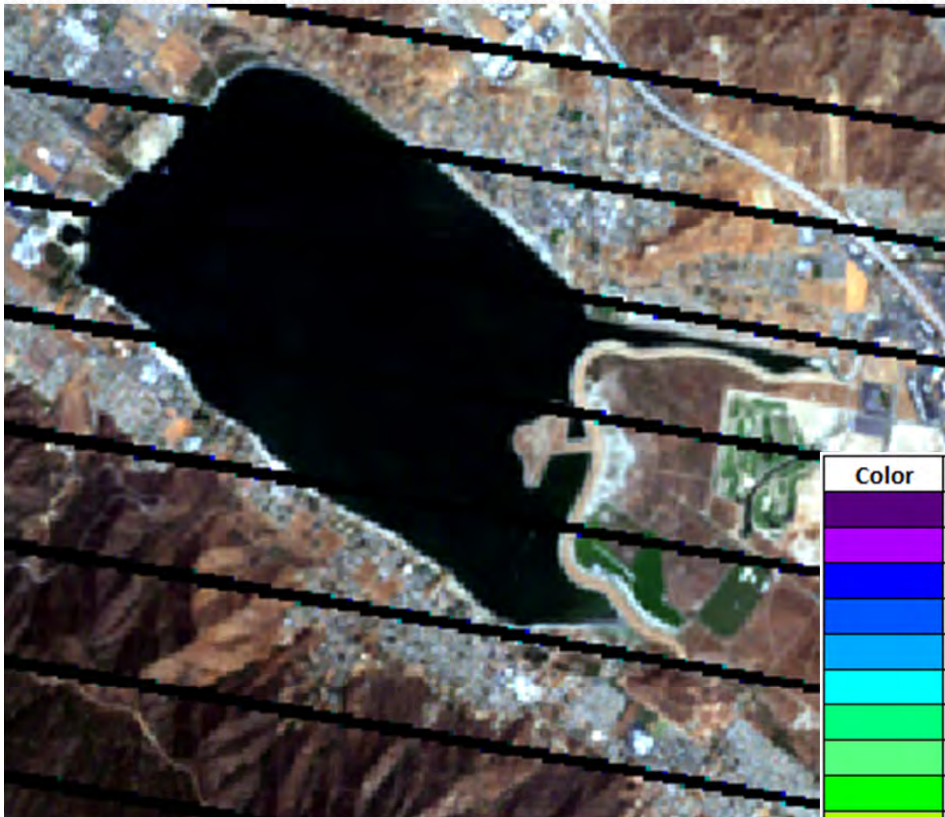
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	22.3
Light Purple	6-10	2.4
Blue	11-15	3.7
Light Blue	16-20	1.2
Cyan	21-25	1.2
Light Cyan	26-30	0.6
Green	31-35	0.4
Light Green	36-40	0.9
Bright Green	41-45	1.3
Yellow-Green	46-50	0.4
Yellow	51-75	8.0
Orange	76-100	8.4
Light Orange	101-125	10.0
Dark Orange	126-150	8.9
Red	>150	30.4

Lake Elsinore 08/15/2009 Natural Color Image (Left) and Chl-a Scan (Right)



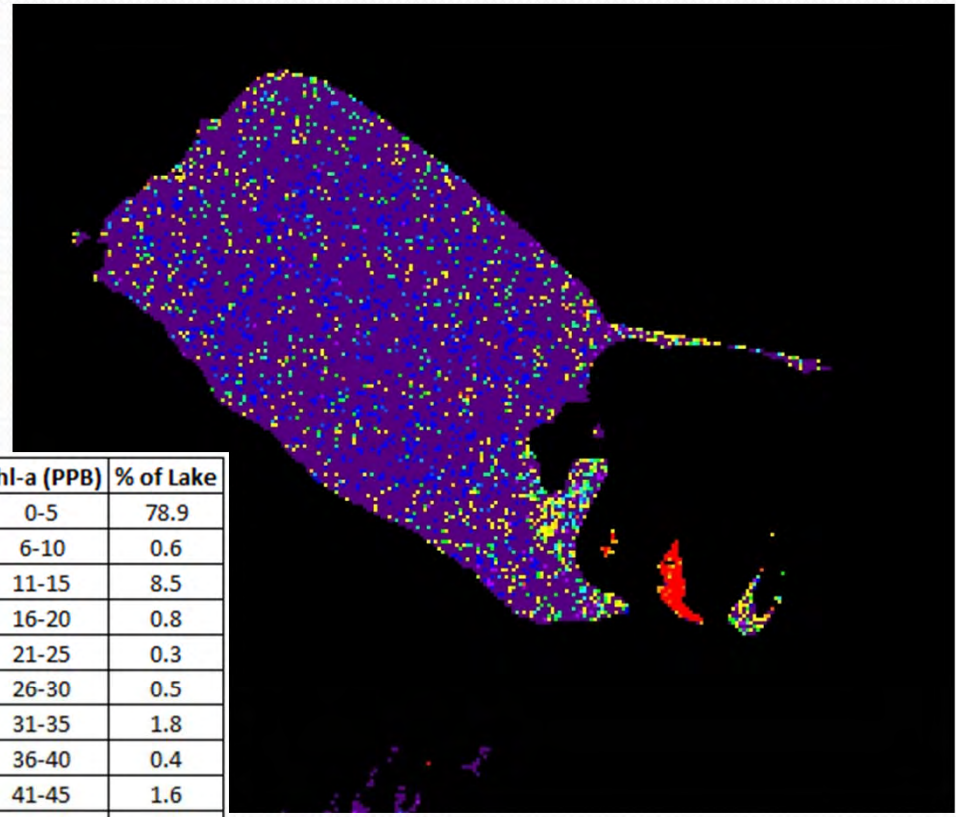
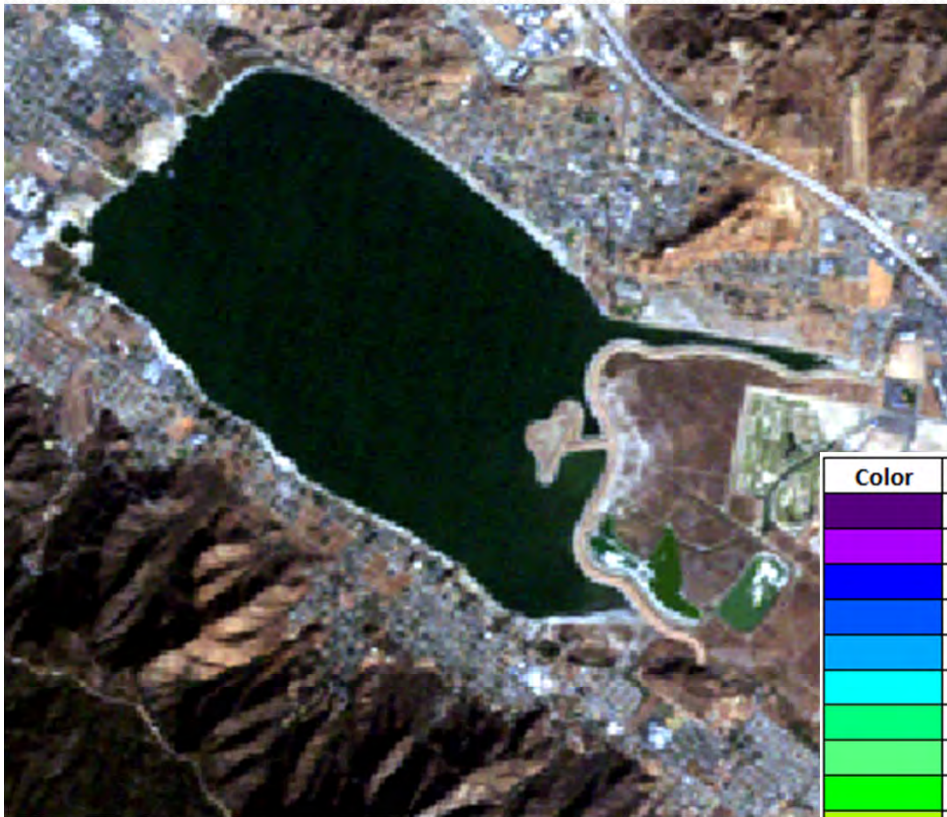
Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	79.3
Light Purple	6-10	0.0
Blue	11-15	0.0
Light Blue	16-20	0.0
Cyan	21-25	0.0
Light Cyan	26-30	0.0
Green	31-35	0.0
Light Green	36-40	0.7
Bright Green	41-45	5.6
Yellow-Green	46-50	4.0
Yellow	51-75	7.1
Orange	76-100	1.8
Light Orange	101-125	1.0
Red-Orange	126-150	0.4
Red	>150	0.2

Lake Elsinore 09/08/2009 Natural Color Image (Left) and Chl-a Scan (Right)



Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	18.5
Light Purple	6-10	5.5
Dark Blue	11-15	11.1
Medium Blue	16-20	9.4
Light Blue	21-25	2.6
Cyan	26-30	1.2
Green	31-35	0.7
Light Green	36-40	0.6
Bright Green	41-45	0.8
Yellow-Green	46-50	1.2
Yellow	51-75	8.6
Orange-Yellow	76-100	8.6
Orange	101-125	7.4
Red-Orange	126-150	5.3
Red	>150	18.4

Lake Elsinore 11/19/2009 Natural Color Image (Left) and Chl-a Scan (Right)



Color	Chl-a (PPB)	% of Lake
Dark Purple	0-5	78.9
Light Purple	6-10	0.6
Blue	11-15	8.5
Light Blue	16-20	0.8
Cyan	21-25	0.3
Light Cyan	26-30	0.5
Green	31-35	1.8
Light Green	36-40	0.4
Bright Green	41-45	1.6
Yellow-Green	46-50	1.0
Yellow	51-75	3.4
Orange	76-100	1.0
Light Orange	101-125	0.3
Red-Orange	126-150	0.2
Red	>150	0.8