ERDAS IMAGINE شج ä ´Y

ä 1' ₃ v 2
ä 2' 11
ä 3' ˝E 18
ä 4' ť 22
ä 5' ˝E ℗ 27
ä 6' ˝E ₙ 30
ä 7' № ǐ U 33

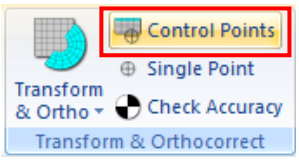
C:\Program Files\ERDAS\ERDAS Desktop 2010\examples\

tmAtlanta.img

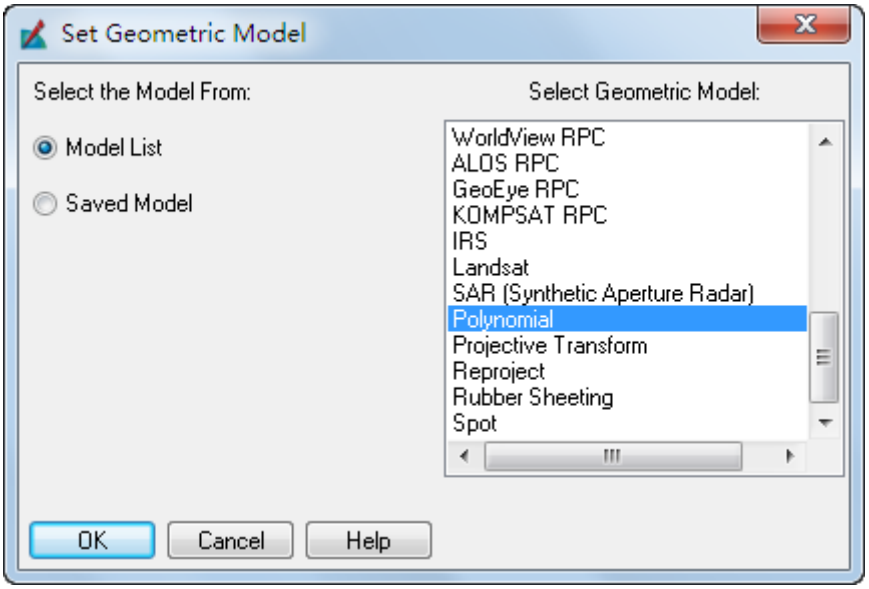
panAtlanta.img

Multispectral **Transform&Orthocorrect**

Control Points

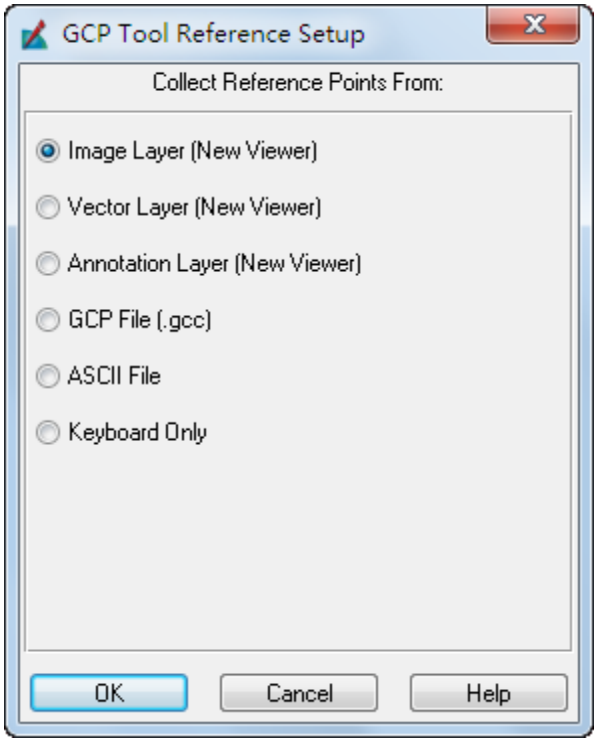


Polynomial



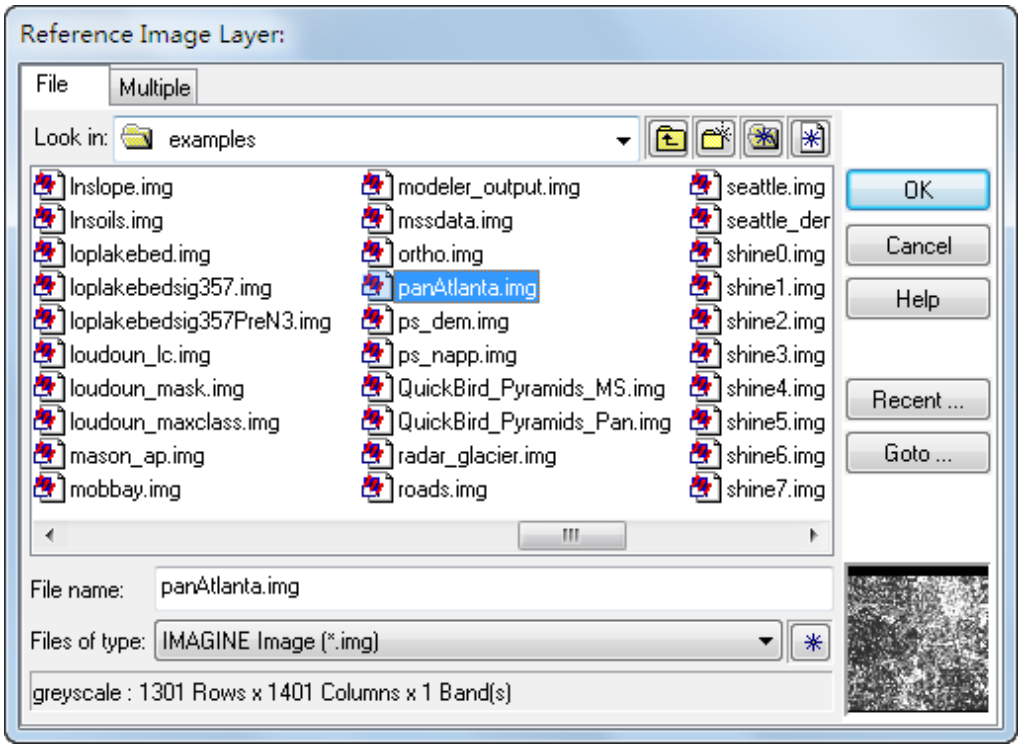
OK

GCP **Image Layer(New Viewer)**

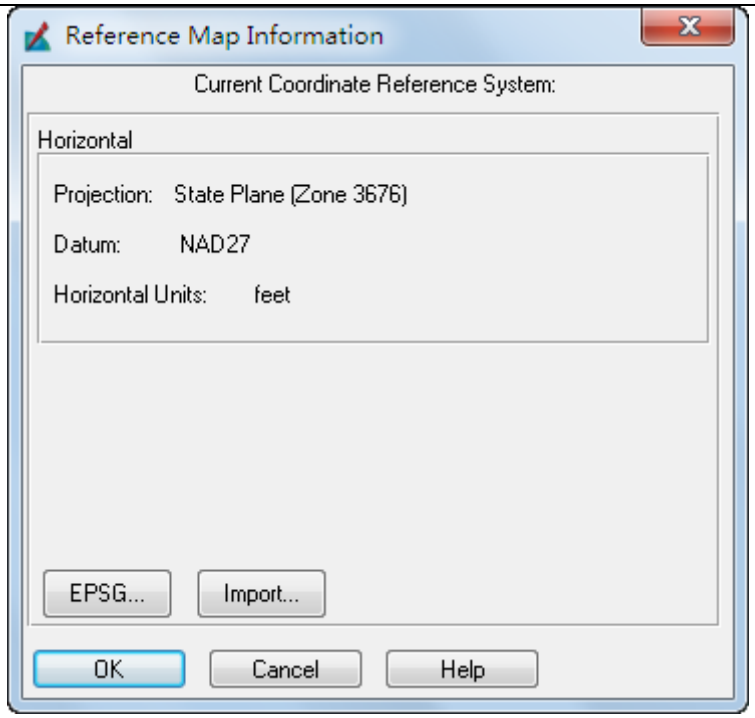


Đρ **OK** Â

Б ض ₣ Đ Ţ Ţ ă ˝E **panAtlanta.img**˘ Đρ **OK** Â

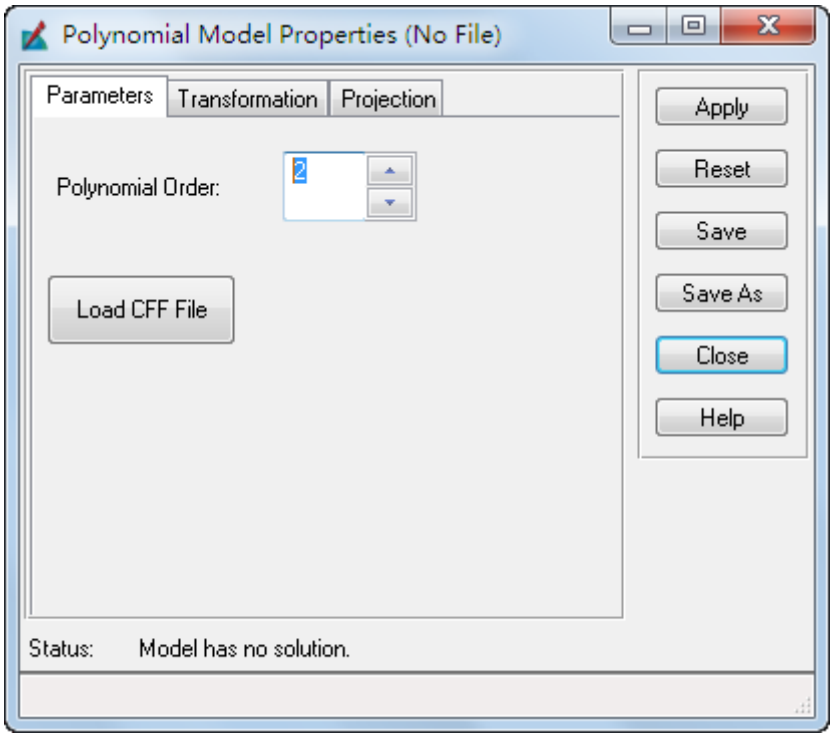


₣ ă ˝E Ḥ ˘ ˊ ˘ Đρ **OK** Â

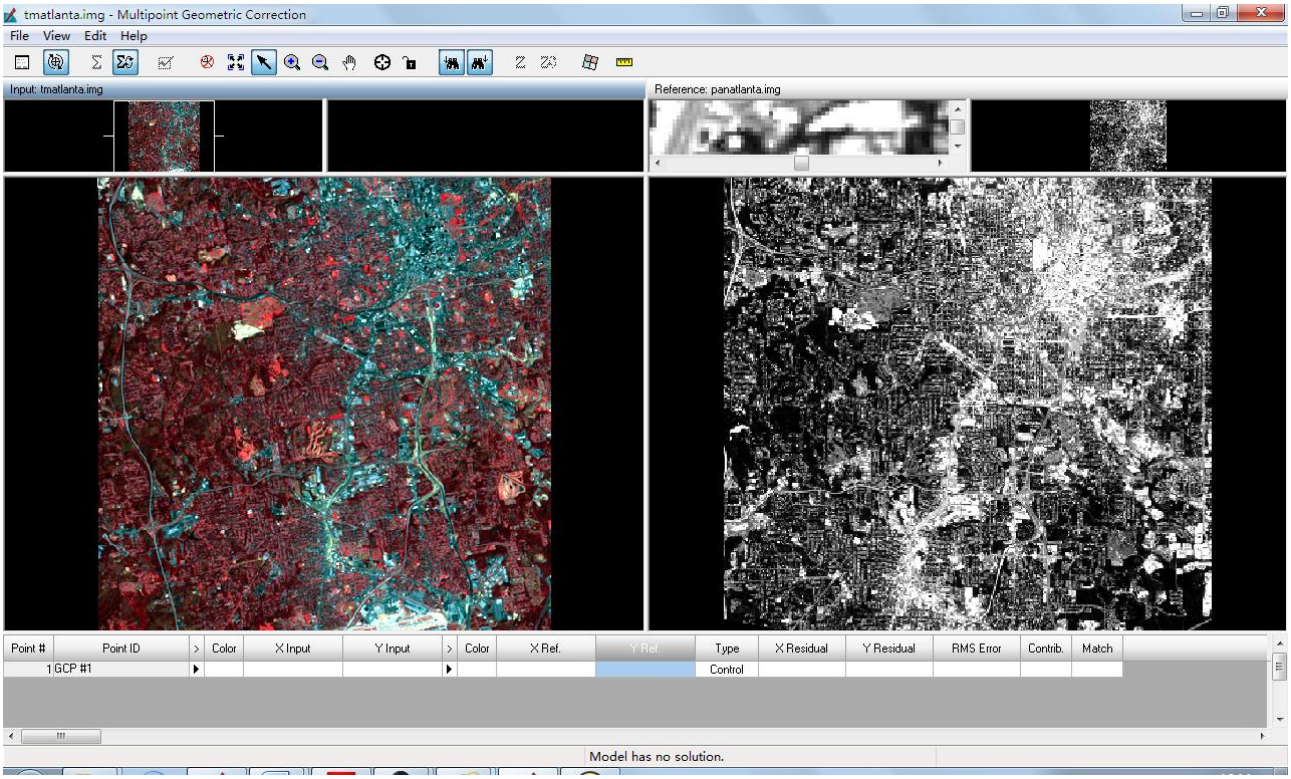


ь ض ₣ فهم Ţ˘ **Polynomial Order(** **)** ч **2** ˘

Ɗρ **Apply** ˘ Ɗρ **Close** ˚ Â



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GCPs Ḥ Â

ضي h o ɣ ŋ ح o Ţ ˆ ϒ ⌠ ˘ ˆ ϒ ˗ ĭ ŭ g (

ˆ ϒ ضي ضي o Ɗ ˚ ˘ **Link Box Color**) Â

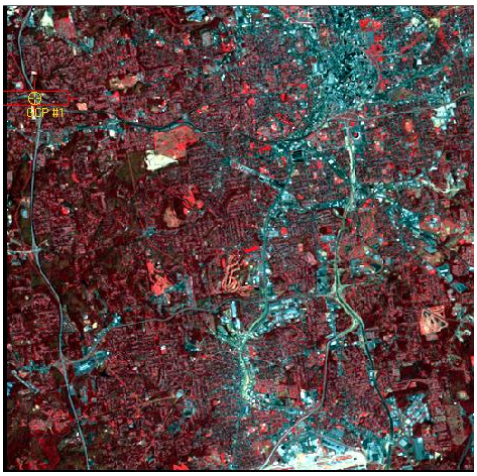
2 à ضر L

' GCP ῡ ضي ң ″E Ţ ≠ ضر ˘ ´ ĭ ˘ GCP №

خش˜ ɑ ϒ Â

ſ ضي tmAtalanta Ţ ضر ˘ ⌠... ’

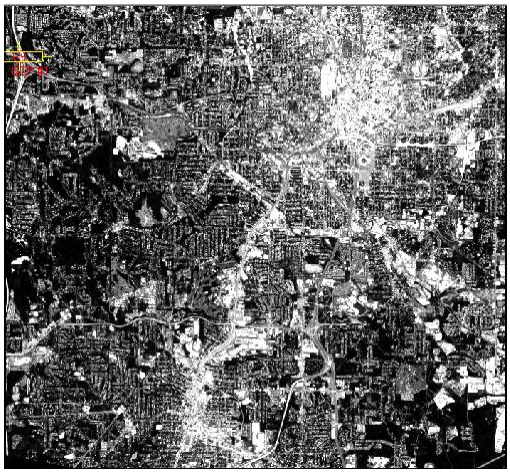
ƀ Ɗ ح ˘ ضي tmAtalanta Ţ **GCP #1’**

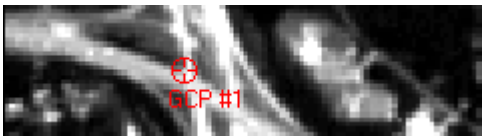




Ъ ضي panAtlanta Ţ ˘ ⌈ ضر ˘ ⌈... ’

Б Ð  يح ˘ ضي panAtlanta Ţ **GCP #1** Â





ң U˘ GCP ↓ Ţ Ψ ₣ **GCP #1** Ң ˘ ıˆ ү Ţ ₩ **GCP #1**˘

Point #	Point ID		Color	X Input	Y Input		Color	X Ref.	Y Ref.	Type	X Residual	Y Residual	RMS Error	Contrib.	Match
1	GCP #1			29.968	-103.534			400522.336	1369819.985	Control	0.345	-0.189	0.393	0.864	
2	GCP #2									Control					

Ð **Color** ќ ỉ ˘ ү Ḃ ı ≠ Â

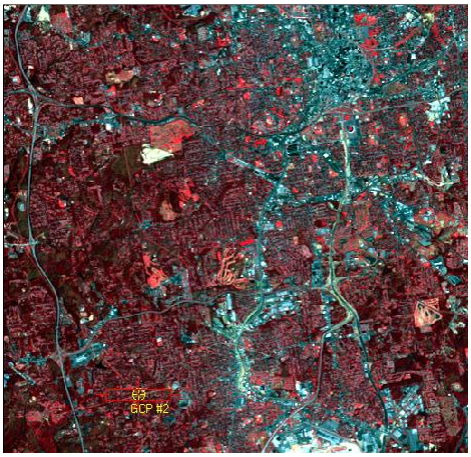
Б ⁚ Ъ˘ ỉ ɾ **GCPs**˘ **2** **6** ɷ L ˘ ч ϶ Ḡ ˘

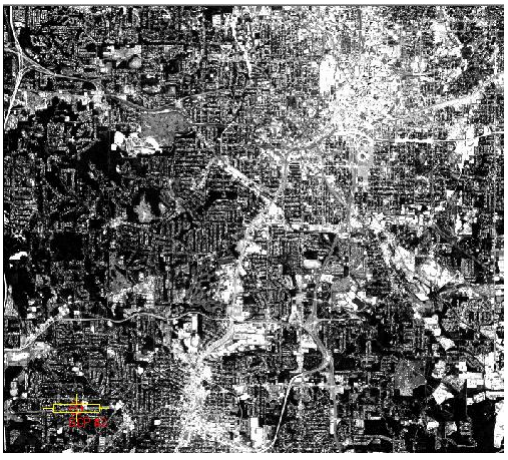
₩ L ˘ ą ỉ ضي ŋ يح خش˜ № Â

GCP #2





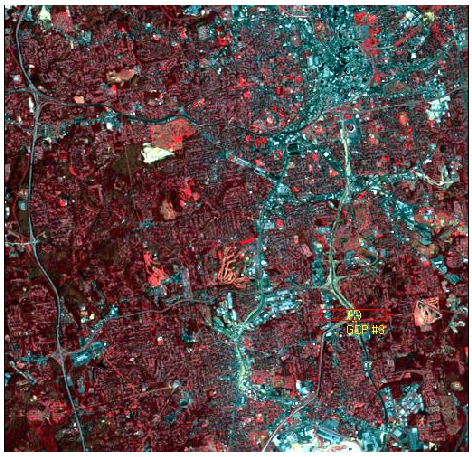


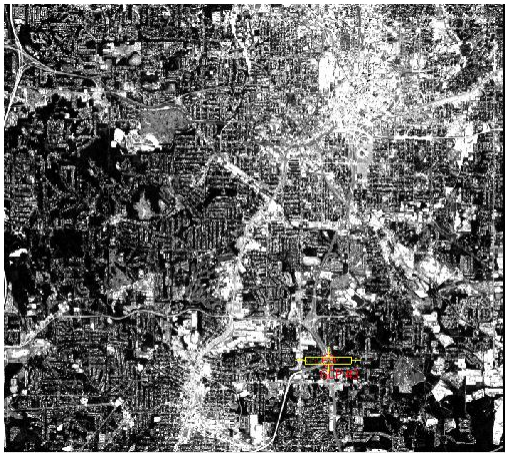


GCP #3









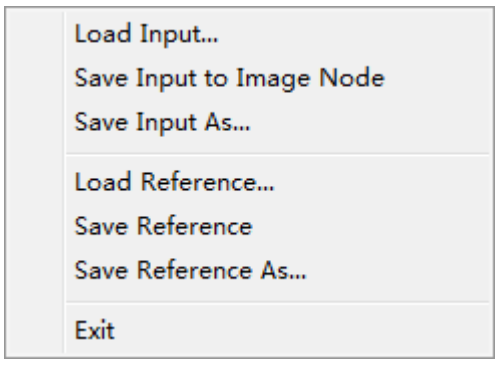
ң ╠ GCPs Ң ' (ᴸ ă ˘ ˆ ضي β ˜)

Point ID	X Input	Y Input	X Ref	Y ref
GCP #1	29.968	-103.534	400522.3	1369819.985
GCP #2	147.966	-438.205	405929.7	1337057.316
GCP #3	385.459	-351.187	429175.4	1341161.644
GCP #4	381.978	-143.682	432262.7	1360284.903
GCP #5	302.568	-203.279	424000.7	1356122.699
GCP #6	283.84	-325.16	420192.9	1345219.434
GCP #7	70.162	-393.118	399571.6	1342508.47
GCP #8	128.938	-129.745	409061.7	1365837.596
GCP #9	368.367	-290.432	428537.9	1347015.97

ضي Ţ˘ Ḡ ƀ Â ضي **File** Ţ №≠ Ḡ **Input** ɛ **Reference**˘ ῡ Ḡ ą

Save Input/Reference As˘ ң ╠ Ḡ *Ɗ*ρ **Save Input/Reference** ˂ˆ Â ң ╠ Ḡ

GCC ɒ˘ Ɜˆ **Load Input** ɛ **Load Reference** ˜ Â



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U ă "E Ţ Ψ ¬ ₰ β ˘ ı17 ¬ ⌠ β ٧

ˆ Â □ ضي 7 ₢ **GCP** ↓ Ţ **RMS Error** Ψ ₢ ˘ ضي ˆ

Y ⌠ L r ˘ Đρ ĺ ىد Σ ٧ˆ Â

Þ 3 v **GCP** r **(Total)** ₩ حمي ٧ G 1˘ ٧ G 2Â

˘ ќ ˘ – ₰ L Y Â

Point #	Point ID	Color	X Input	Y Input	Color	X Ref.	Y Ref.	Type	X Residual	Y Residual	RMS Error	Contrib.	Match
1	GCP #1		29.968	-103.534		400522.336	1369819.985	Control	0.345	-0.189	0.393	0.864	
2	GCP #2		147.966	-438.205		405929.666	1337057.316	Control	0.110	-0.097	0.147	0.323	
3	GCP #3		385.459	-351.187		429175.413	1341161.644	Control	0.109	0.236	0.260	0.572	
4	GCP #4		381.978	-143.682		432262.739	1360284.903	Control	-0.120	-0.032	0.124	0.272	
5	GCP #5		302.568	-203.279		424000.680	1356122.699	Control	0.859	-0.035	0.860	1.889	
6	GCP #6		283.840	-325.160		420192.892	1345219.434	Control	-0.037	-0.187	0.190	0.418	
7	GCP #7		70.162	-393.118		399571.592	1342508.470	Control	-0.097	0.117	0.152	0.333	
8	GCP #8		128.938	-129.745		409061.664	1365837.596	Control	-0.684	0.301	0.747	1.641	
9	GCP #9		368.367	-290.432		426537.857	1347015.970	Control	-0.486	-0.114	0.499	1.097	
10	GCP #10							Control					

Model solution is current. Control Point Error: (X) 0.4230 (Y) 0.1684 (Total) 0.455

3 à ضر

ſ ضي ٧ Ţ **Edit-Set Point Type-Check** Â

Þ **Edit-Point matching** ˘ **GCP Matching** ˘ ٧ **Max Search Radius** ч 3˘ o **Search Window Size** ч **X**' 5˘ **Y**' 5 Â ˆ ٧ **Correlation Threshold** ч **0.8**˘ ˚ – Ь ٧ **Discard Unmatched Points** Â

Ɓ ضي ĺ Đρ **GCP Tool** ˘ Y Ь ڏ قمم Â

Б ضر L ˘ 5 ₢ ˚ ˘ ң U Đρ Â

Б ضي ĺ Đρ ىد ˘ ˆ Y Â ₩

G 1Â

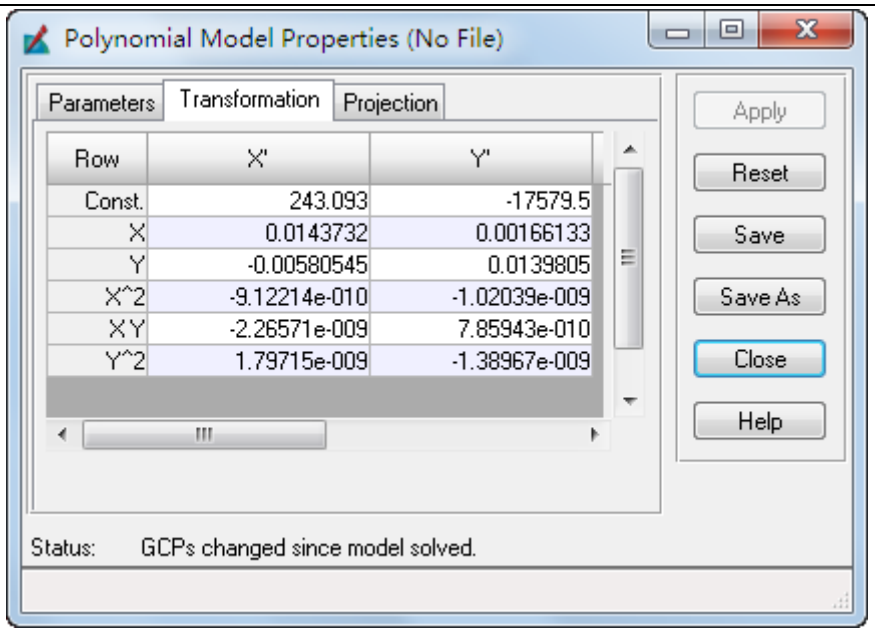
GCP #10		281.713	-124.250		423278.660	1363760.720	Check	0.122	0.026	0.125	0.277	0.800
GCP #11		402.583	-235.140		432665.430	1351554.950	Check	-0.511	0.186	0.544	1.210	0.959
GCP #12		288.367	-275.060		421404.030	1349816.211	Check	-0.602	0.360	0.701	1.559	0.842
GCP #14		226.269	-244.011		416251.586	1353639.235	Check	0.224	-0.238	0.327	0.727	0.859
GCP #19		110.944	-248.447		405586.714	1355183.803	Check	-0.261	0.182	0.318	0.707	0.793
GCP #13							Control					

Model solution is current. Check Point Error: (X) 0.3890 (Y) 0.2259 (Total) 0.4498

4 à قمم ă

ضي L ң U˘ قمم ¬ ˘ ı Đρ ĺ Ţ ىد ˘ ضي

₣ قمم Ţ Đρ Transformation ٧˘ ˆ Y قمم ă Â



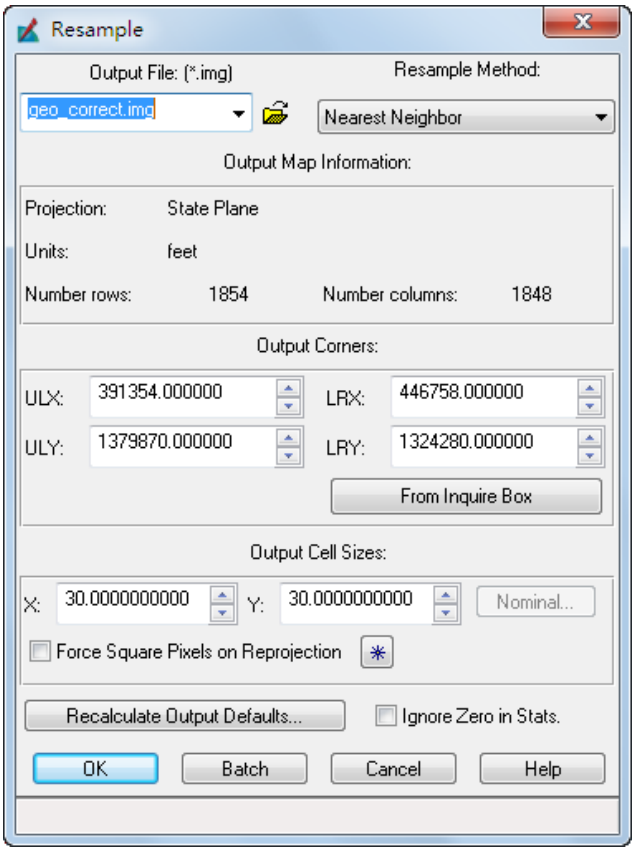
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₣ ɒ O ɇ ˘ ч **Geo_Correct.img**ʼ

(Resample Method) ч **(Nearest Neighbor)**ʼ

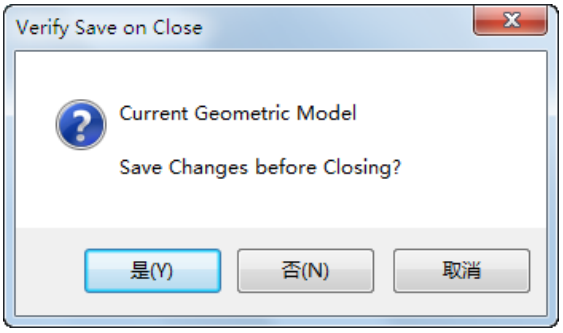
₣″E″Ḥ **(Output Cell Sizes)**ˇ **X** ч 30″ **Y** ч 30″ (₩ Ь ⁄ ″E″Ḥ ₩)



Ð **OK** Â

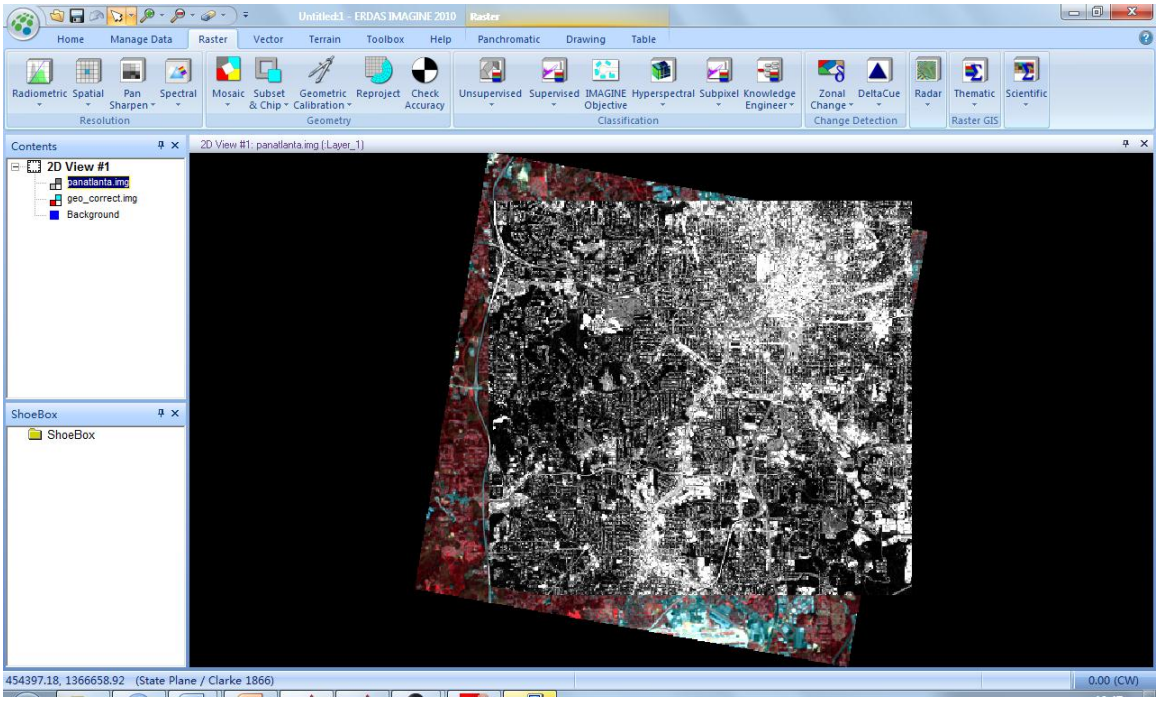
6 à Ğ 3 v فهم

Ð ˆ 3 v ˘ Ψ ϽĞ 3 v فهم

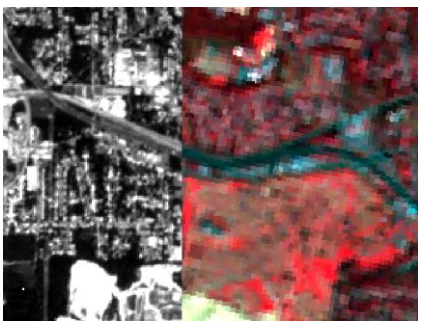


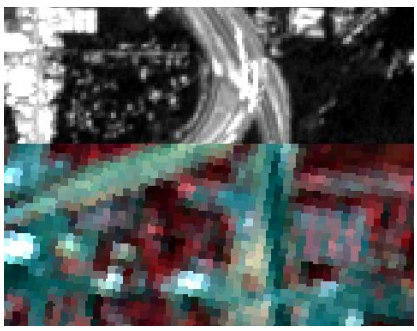
Ð (**Y**) ˆ ϒ 3 v فهم Ğ ч **gms** ϑ ˘ ϒ ϒ U ą Â Ь ˘ ÐϽ ˅ˆ Â

7 à Uˆ ضي ىح o Ţ Â



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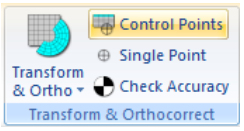
C:\Program Files\ERDAS\ERDAS Desktop 2010\examples\

ps_napp.img

DEM ps_dem.img

GCC ps_camera.gcc

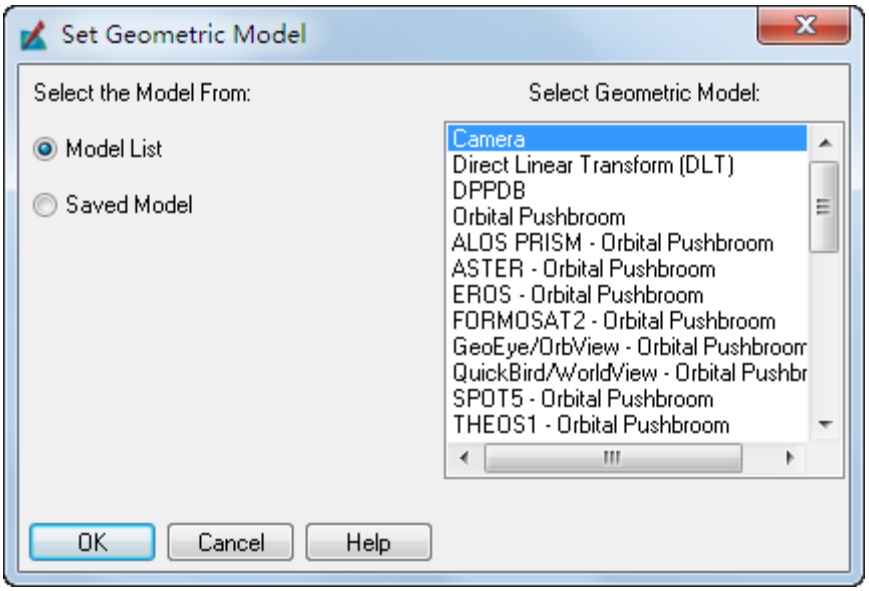
1 **Menu** **Open** **Raster Layer** **Viewer** **Open Raster Layer**



Panchromatic **Transform&Orthocorrect**

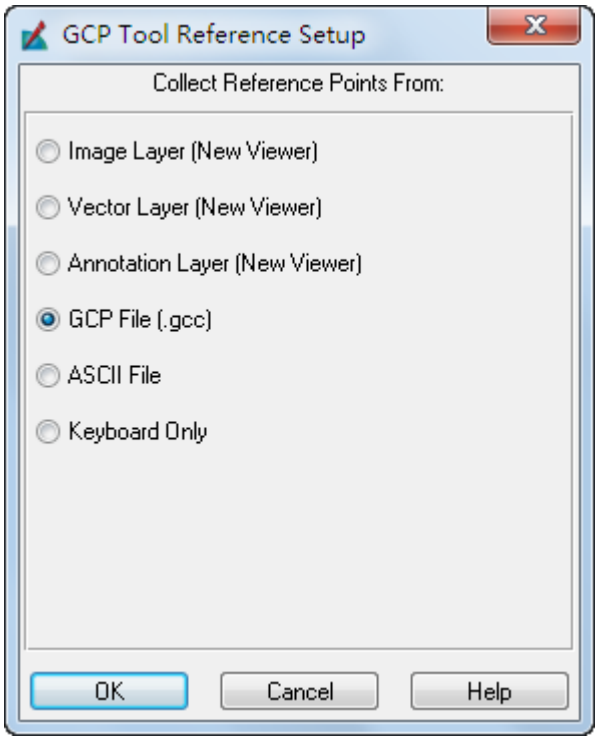
Control Points

Camera



OK

GCP **GCP File(.gcc)** **OK** **ps_camera.gcc**



2 à ă

ض ₣ فم Ţ˘ Ð General ١˘ (Elevation Source)

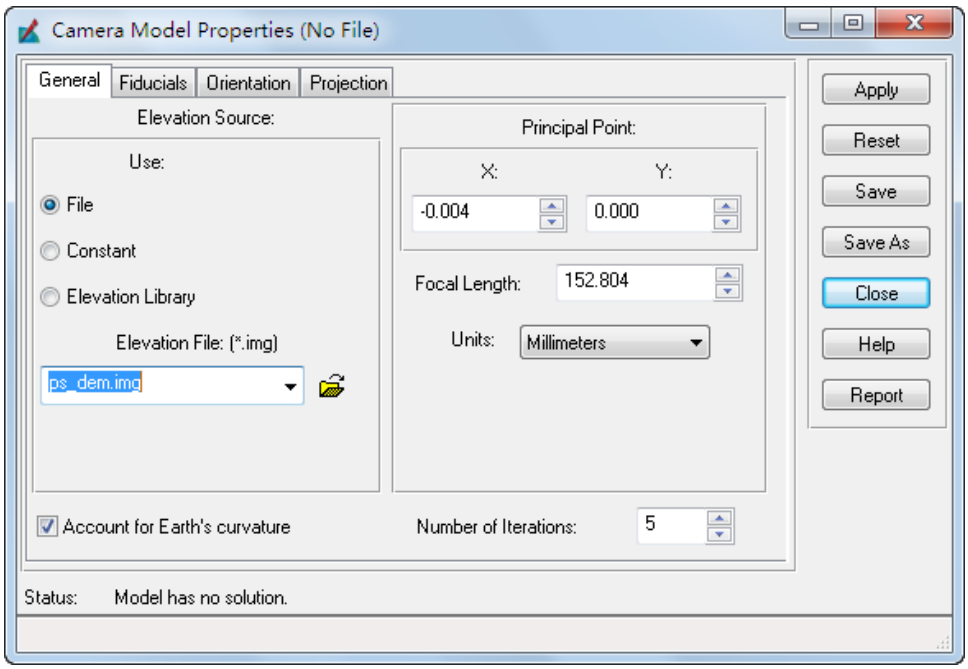
ч File˘ DEM ps_dem.img'

˝Eh (Principal Point)ش X ч -0.004́ Y ч 0' (Focal Length) ч 152.804́

١ β (Units) ч Millimeters'

• ض (Account for Earth ê Curvature)' ٦ (Number of

Iterations) ч 5 Â Ð Apply Â

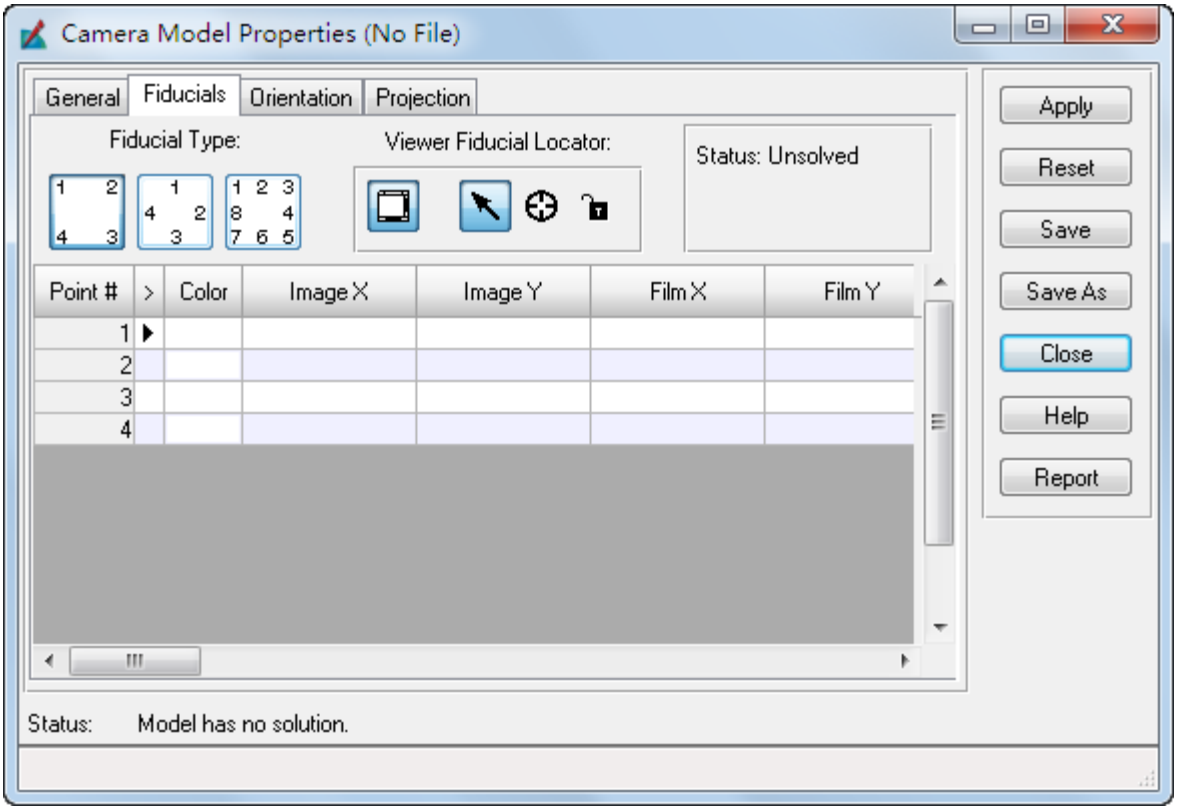


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ſ ضي ﻓﻬﻢ Ţ˘ Ð ρ **Fiducials** ∨˘ ﻓﻬﻢˆ **Fiducial Type**˜ ч

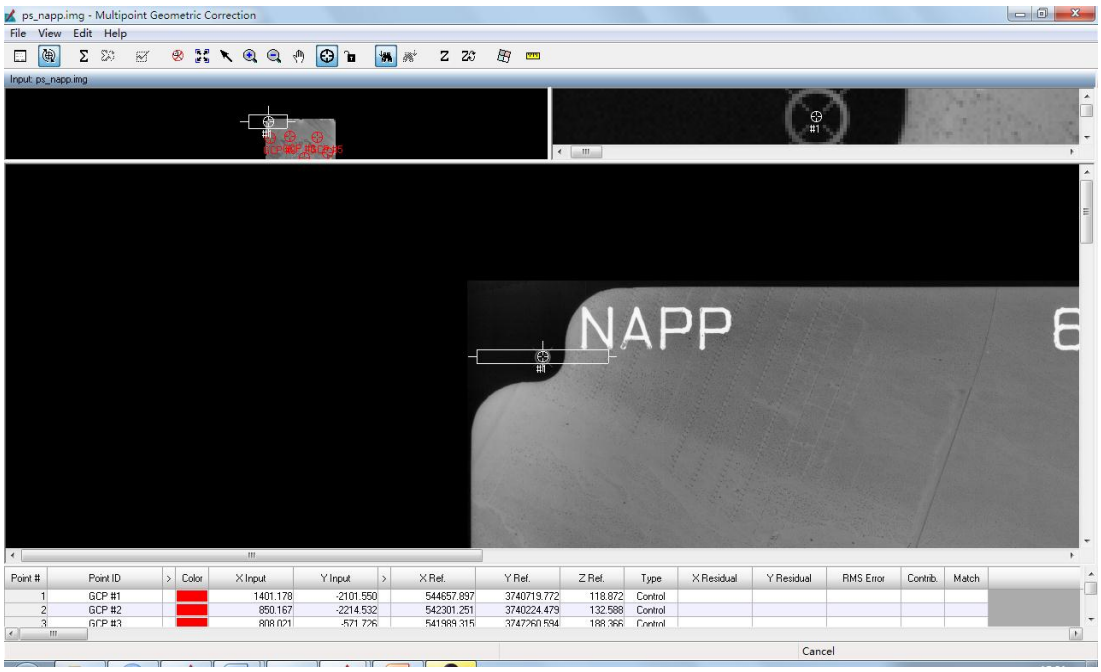
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ƀ ʏ β ˆ **Viewer Fiducial Locator**˜˜ Ð ρ ˘ ˜ Â

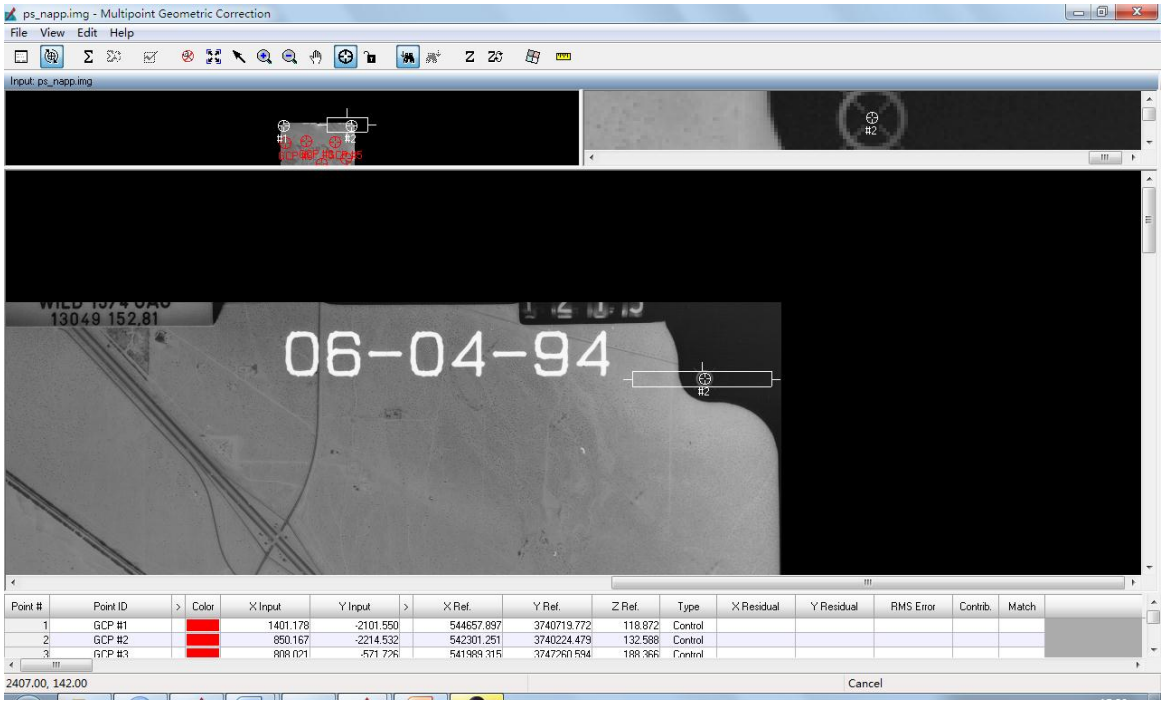


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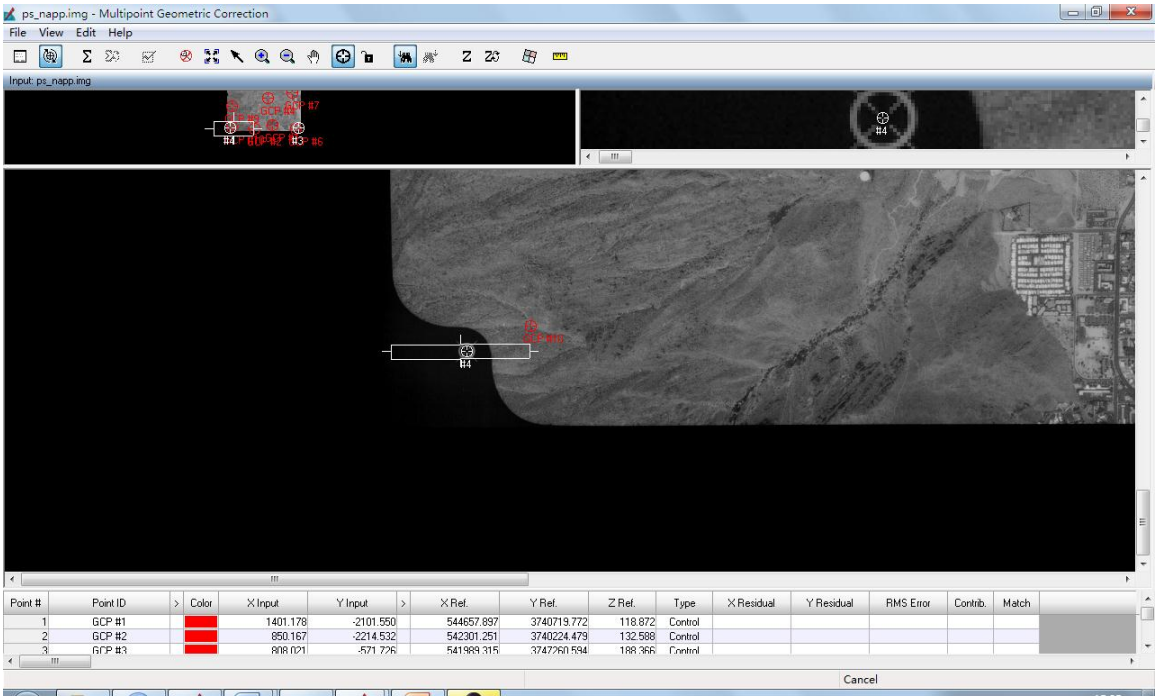
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ps_napp.img - Multipoint Geometric Correction
File View Edit Help
Input: ps_napp.img
13049 152,81
06-04-94
Point # | Point ID | Color | X Input | Y Input | X Ref. | Y Ref. | Z Ref. | Type | X Residual | Y Residual | RMS Error | Contrib. | Match
1 | GCP #1 | 1401.178 | -2101.550 | 544657.897 | 3740719.772 | 118.872 | Control
2 | GCP #2 | 850.167 | -2214.532 | 542301.251 | 3740224.479 | 132.588 | Control
3 | GCP #3 | 808.021 | -571.726 | 541989.315 | 3747260.594 | 188.366 | Control
2407.00, 142.00
Cancel

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ps_napp.img - Multipoint Geometric Correction
File View Edit Help
Input: ps_napp.img
Point # | Point ID | Color | X Input | Y Input | X Ref. | Y Ref. | Z Ref. | Type | X Residual | Y Residual | RMS Error | Contrib. | Match
1 | GCP #1 | 1401.178 | -2101.550 | 544657.897 | 3740719.772 | 118.872 | Control
2 | GCP #2 | 850.167 | -2214.532 | 542301.251 | 3740224.479 | 132.588 | Control
3 | GCP #3 | 808.021 | -571.726 | 541989.315 | 3747260.594 | 188.366 | Control

Й '



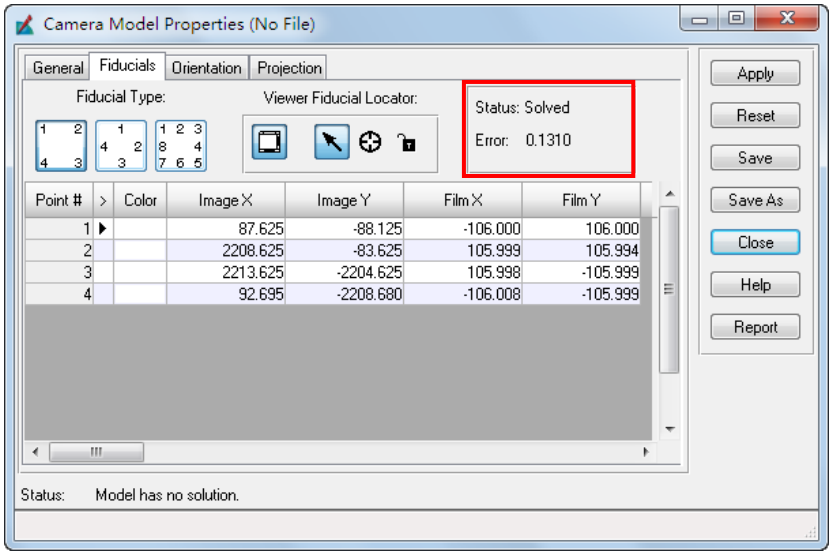
Б ң U˘ عج ⌡ هم Ţ˘ ضي ↓ Ţ ˜ ضم ق ىج ˝E

شم Â

Point #	Film X	Film Y
1	-106.000	106.000
2	105.999	105.994
3	105.998	-105.999
4	-106.008	-105.999

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U Ð **Apply** Â



Б Ð **Orientation** Ø ˇ G Ø ض ˇ Â

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Ð **Projection** Øˇ ˆ γ ⌈ ă ˇ **DEM** ˜ˇ Ղ

Ø ˆ Â Ð **Close** ˚ Â

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فهم **RMS** à **Residuals** Ĭ L **X** à

Y شم Â

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Ortho_correct.img

ˆ **Resample Method** ˜ Ч

Ø **(Cubic Convolution)**

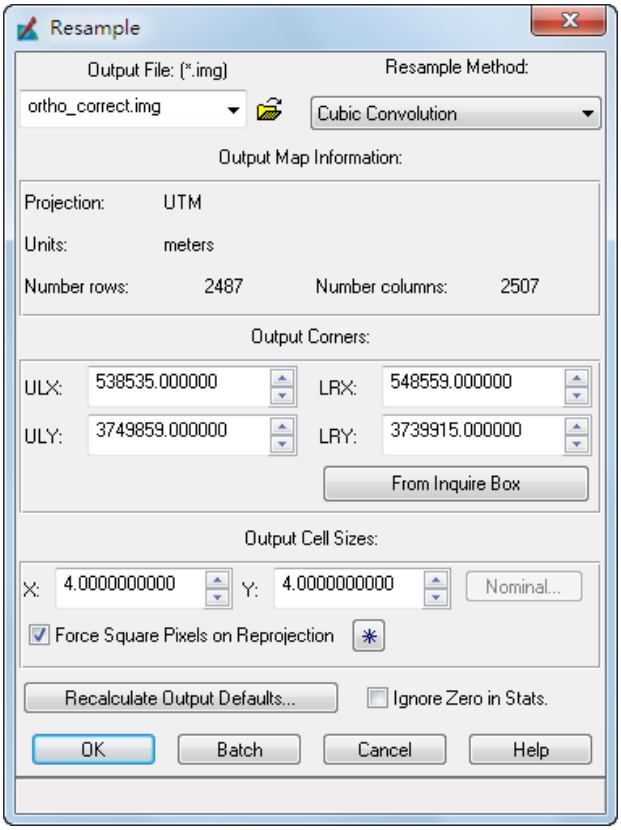
₣ ˝E˝Ḥ ˆ **Output Cell Sizes** ˜˜

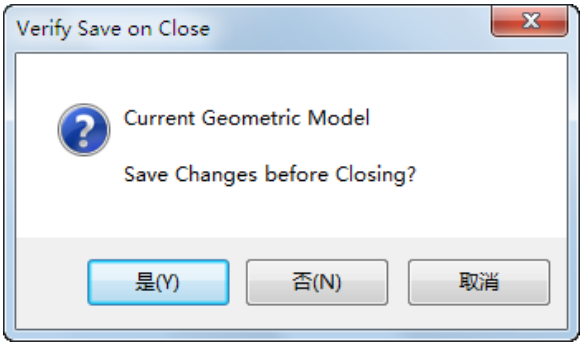
X Ч **4** **Y** Ч **4**

Ð **OK** Â

6 à Ḡ 3 v فهم

˚ ˇ Ψ Ղ Ḡ 3 v فهم

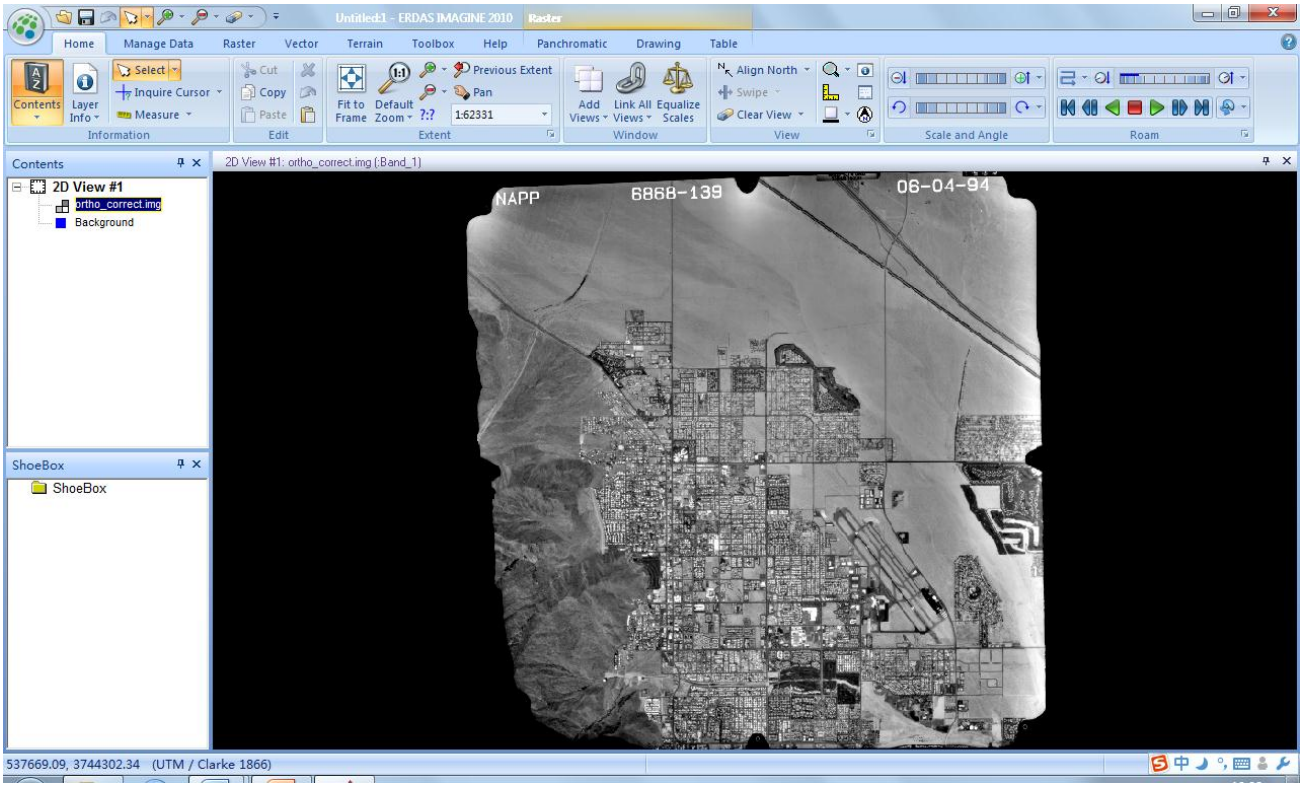




Ð **(Y)** ˆ γ 3 v فهم Ḡ Ч **gms** Đ ˇ γ Й ą Â Ь ˇ ÐՂ Ø

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'

C:\Program Files\ERDAS\ERDAS Desktop 2010\examples\

' wasia1_mss.img

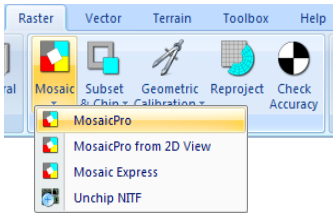
wasia2_mss.img

wasia3_tm.img

Þ '

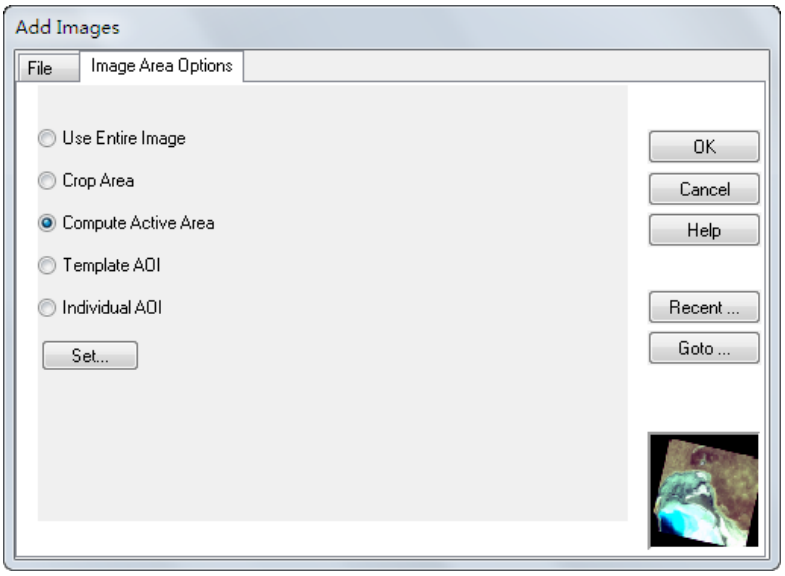
1 à Ø¨ **MosaicPro**

Ð **Raster** ¼ ض **Geometry** Ţ Ð **Mosaic** ح ˘ ض Ѝ ¼ Ţ **MosaicPro'** ض **Toolbox** ¼ Ţ ⌈ **Mosaic** Â



2 à ¥ "E

ض ¼ Ţ **Edit-Add Image**˘ Ð Í  ح ˘ **Add Image** ˘ ₩ ⁞⁞ ɳ Ţ **wasia**1_mss.img à**wasia**2_mss.img à**wasia**3_tm.img' Ð **Image Area Options** ¼˘ **Compute Active Area** Â Ð **OK** Â



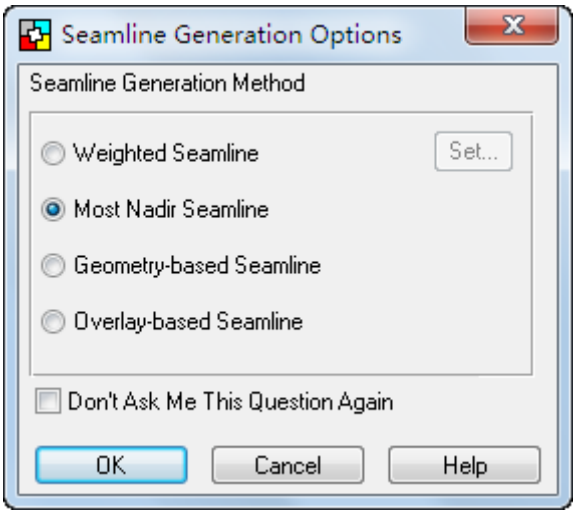
ض **MosaicPro** o ↓ Ţ "E ˆ **Vis.**ˇ Đρ í Ţ 

ىح **View** ٦ Й **Show Rasters** ą ì Â

Order	Ref.	Vis.	Image Name	Area	esamp	RMS	Online	lude Ar	tion Eq	ge Doc	Bala	am M	sition
1	✔	✔	m files/erdas/erdas desktop 2010/examples/wasia1_	Active	NN	0.0000	✔						
2		✔	m files/erdas/erdas desktop 2010/examples/wasia2_	Active	NN	0.0000	✔						
3		✔	am files/erdas/erdas desktop 2010/examples/wasia3	Active	NN	0.0000	✔						

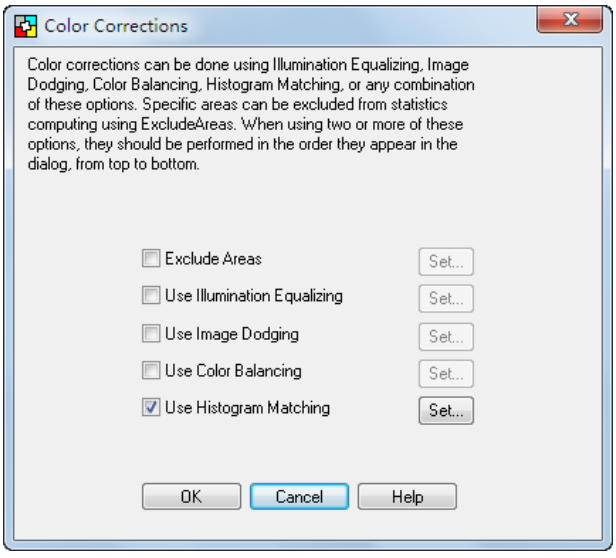
3 à

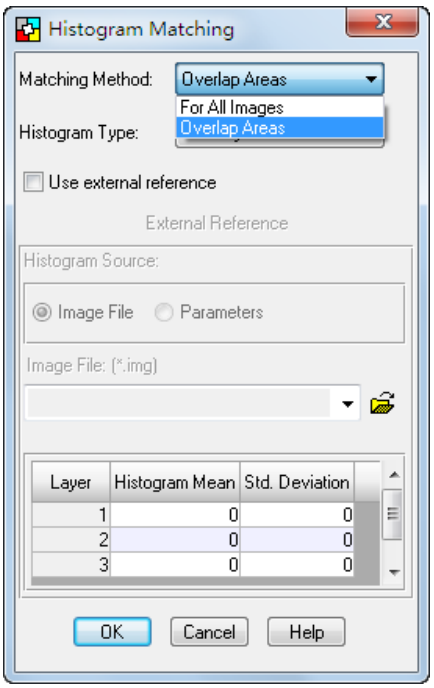
Đρ í Ţ  ىح ' ض ₣ ˗ Ţ **Most Nadir Seamline** Â Đρ **OK** Â



4 à

Đρ í Ţ  ىح ˘ **Edit** ٦ Й **Color Corrections** é˘ ض ₣ Ţ˘ ˆ **Use Histogram Matching**ğ Đρ **Set** é





ضي يد ١ Ţ **Matching Method** ч **Overlap Areas**ˇ Ð **OK**

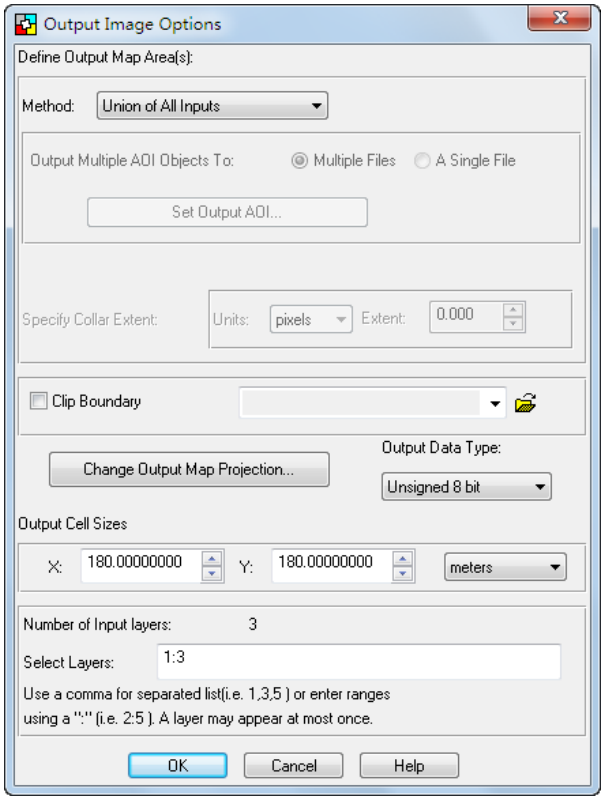
ج ⌠ **Color Corrections** ˇ Ð **OK** Â

5 à ₣ ă

Ð í Ţ يد ˇ **Edit** ١ Ѝ **Output Options**ˇ ₣ ₣ ″E ˇ

ˆ ٢ ₣ ز à ″E№ à ﻡ à ″E Â ٣ Ь Ạ ˇ Ð

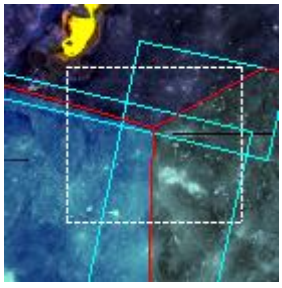
OK Â



6 à

Ð í Ţ يد ˇ ﻩ ″E ŋ ٧ ˀ ₩ ɷ ٧ ˆ Ѝ يد

˜ Â



Ð **Process** ١ Ţ **Preview Mosaic for Window** é ٢ ˇ ч

ˇ ↕ˆ Ѝ ₩ ˇ ٦ ↕ ė ă Â

7 à

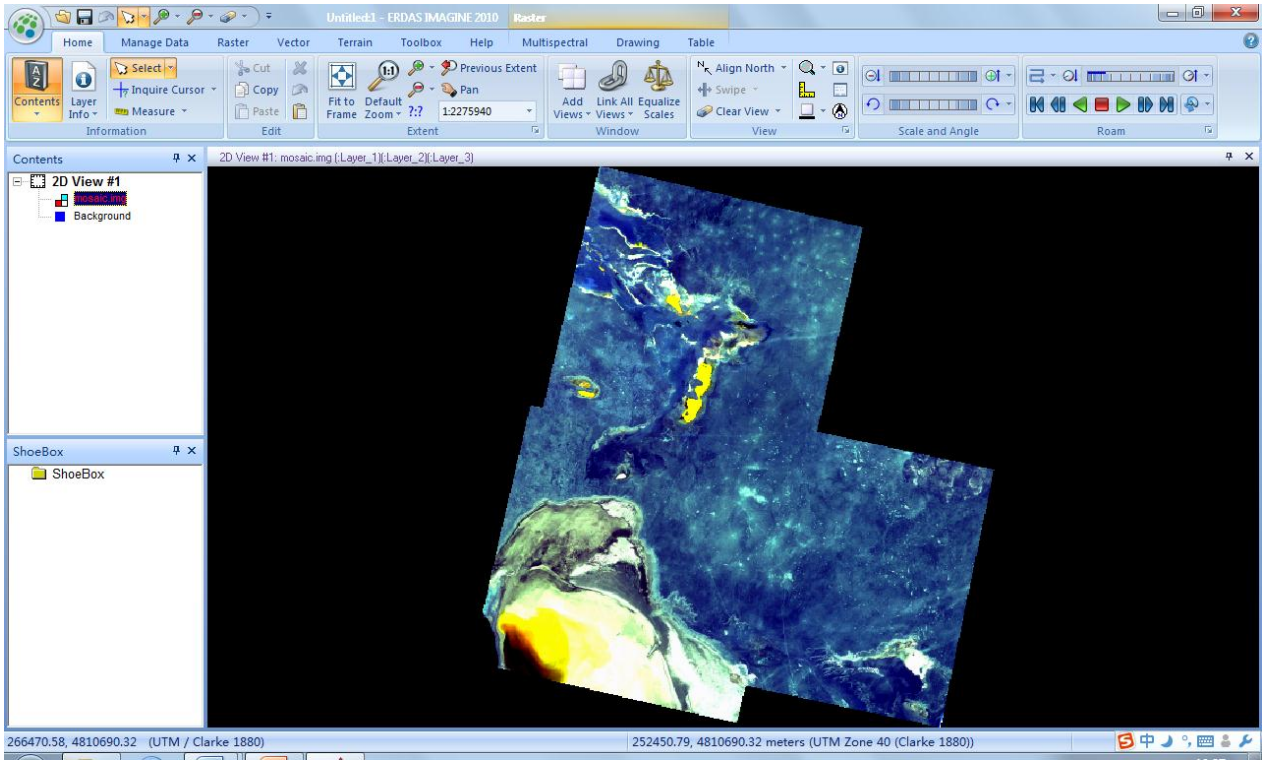
Ð ρ í Ţ  ÿ ˘ **Process** ϟ Ţ **Run Mosaic** é ˘ Â ض ₣

Ţ ɥ ₣ ɒ ɛ ɒ O Â

U Ð ρ ˆ **MosaicPro** ο ˘ ϶ G̃ **Mosaic File** ˘ ˆ ɣ ỉ G̃ ч

ɒ ˘ ɣ ɣ U ą Â ь ˘ ϶ ϟ ˆ Â

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C:\Program Files\ERDAS\ERDAS Desktop 2010\examples\lanier.img

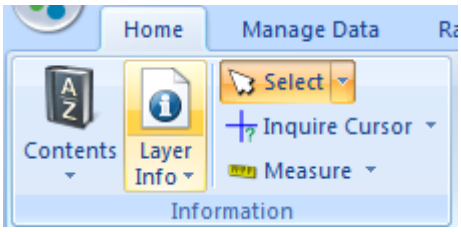
lanier.img

1

lanier.img **Menu** **Open**

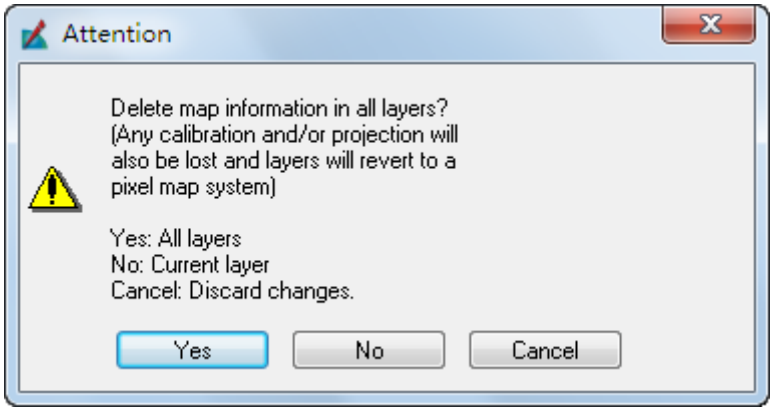
Raster Layer **Viewer** **Open**

Raster Layer



Home **Layer Info**

ImageInfo **Edit** **Delete Map Model** **Yes**



2

Edit **Change Map Model**

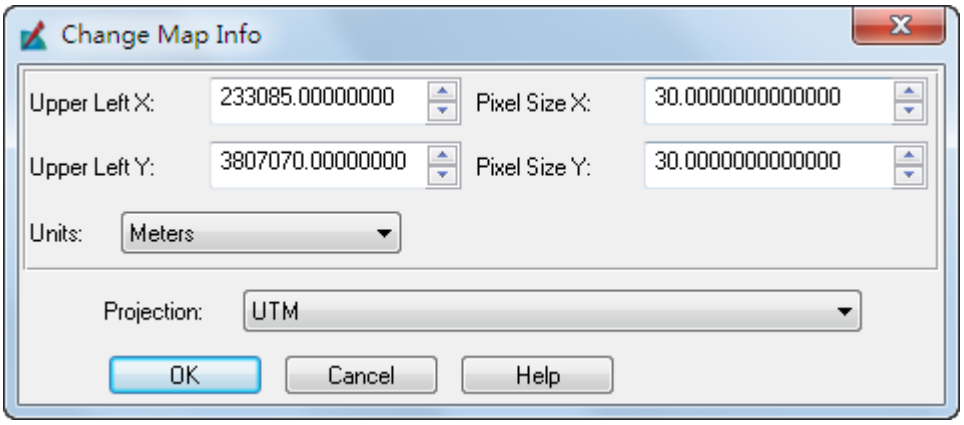
X **233085.0** **Y** **3807070.0**

30 **30**

UTM

Meters

ض ∓ Ţ Ð **Yes** Â



ƀ Ð **Edit** ٤ Ѝ **Add/Change Projection** é ,ض ∓ Ţ ɥ ă '

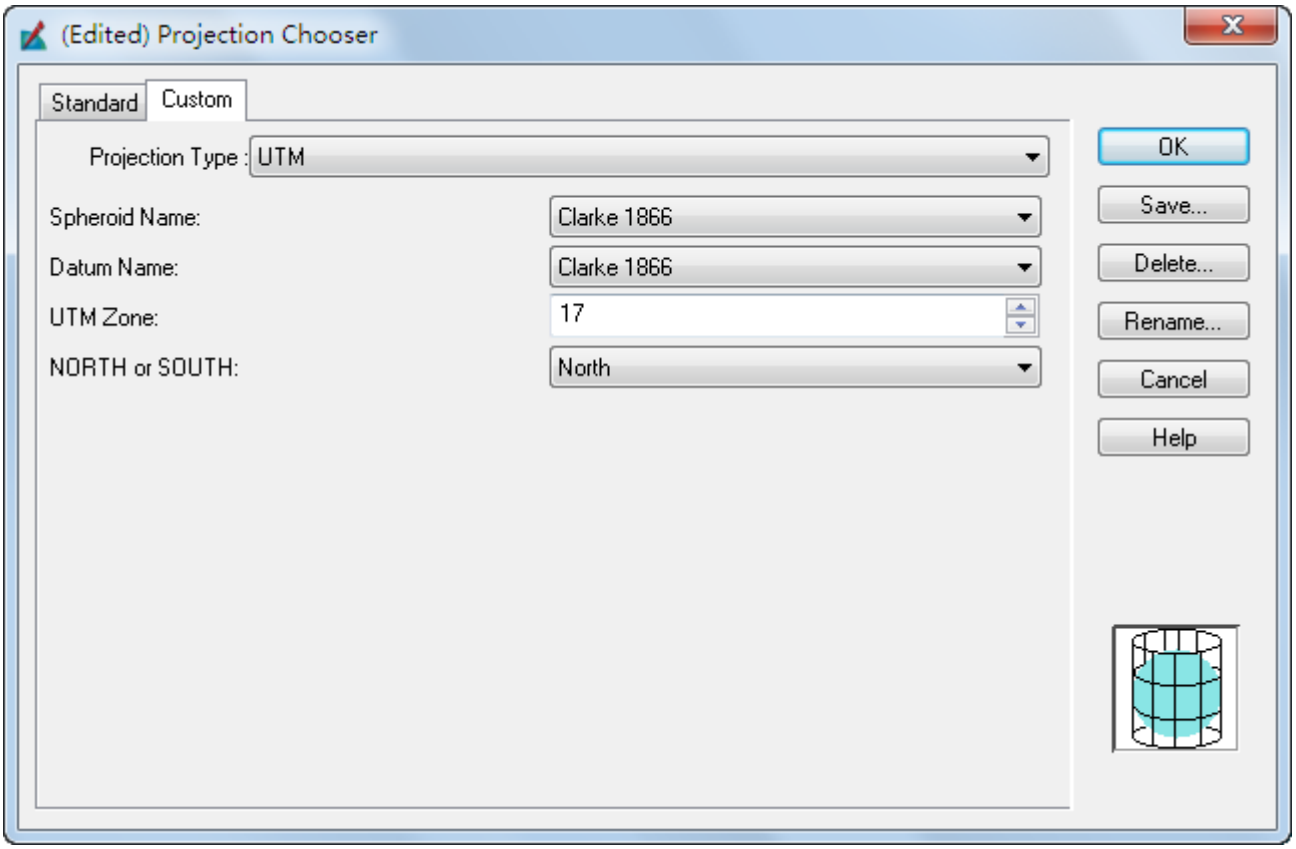
Projection Type' **UTM**

Spheroid Name' **Clarke 1866**

Datum Name' **Clarke 1866**

UTM Zone' **17**

NORTH or SOUTH' **North**



Ð **OK** ˘ ض ∓ Ţ Ð **Yes** Â

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ſ ˘ Ð Raster ٧˘ ض Geometry Ţ Ð Reproject ىد

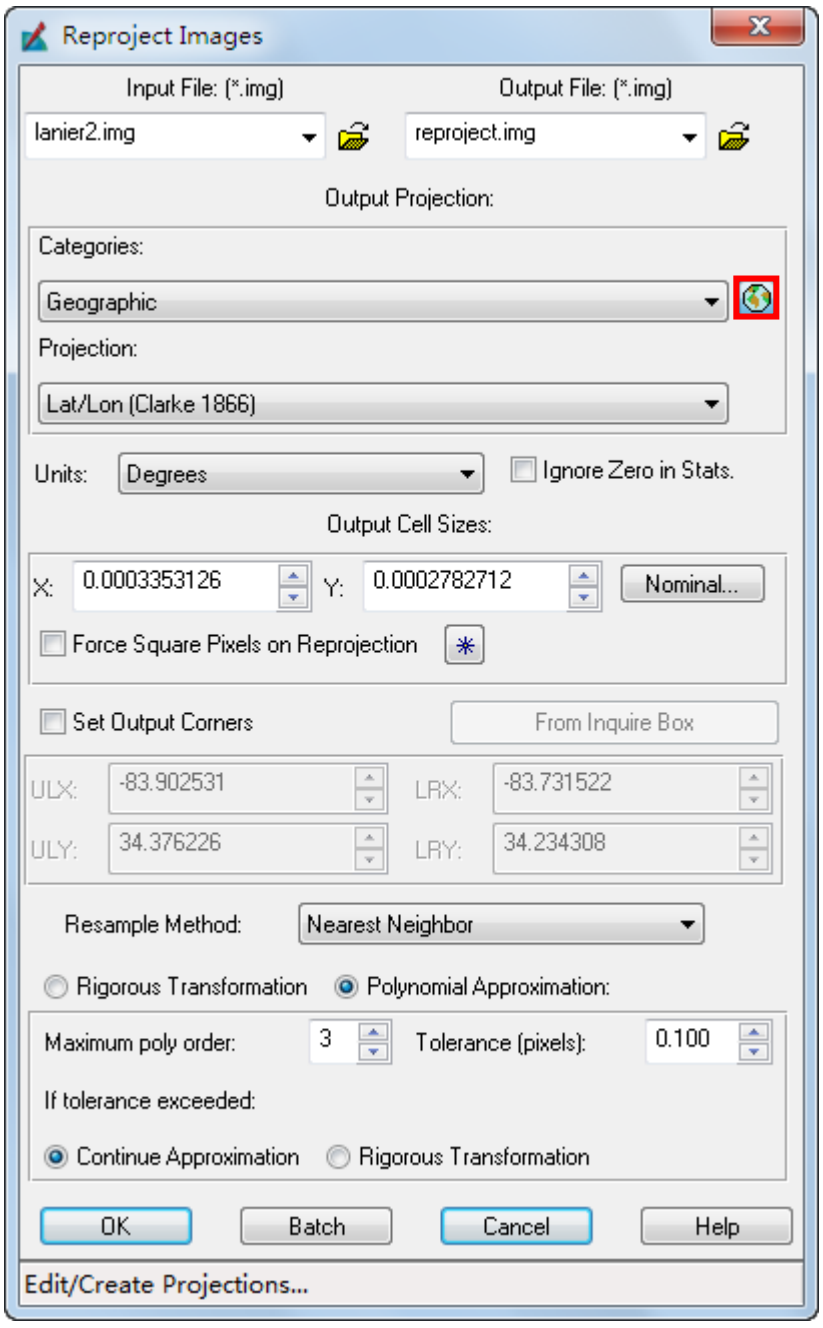
ض ″E ' Й Ð Multispectral ٧˘ ض Transform &Orthocorrect Ţ

Ð Transform &Ortho ىد ˘ ض Й ٧ Ţ Ð Reproject ىد Â

ƀ ض ₣ Ţ

˜ ₣

Ð ḱ ىد ˘



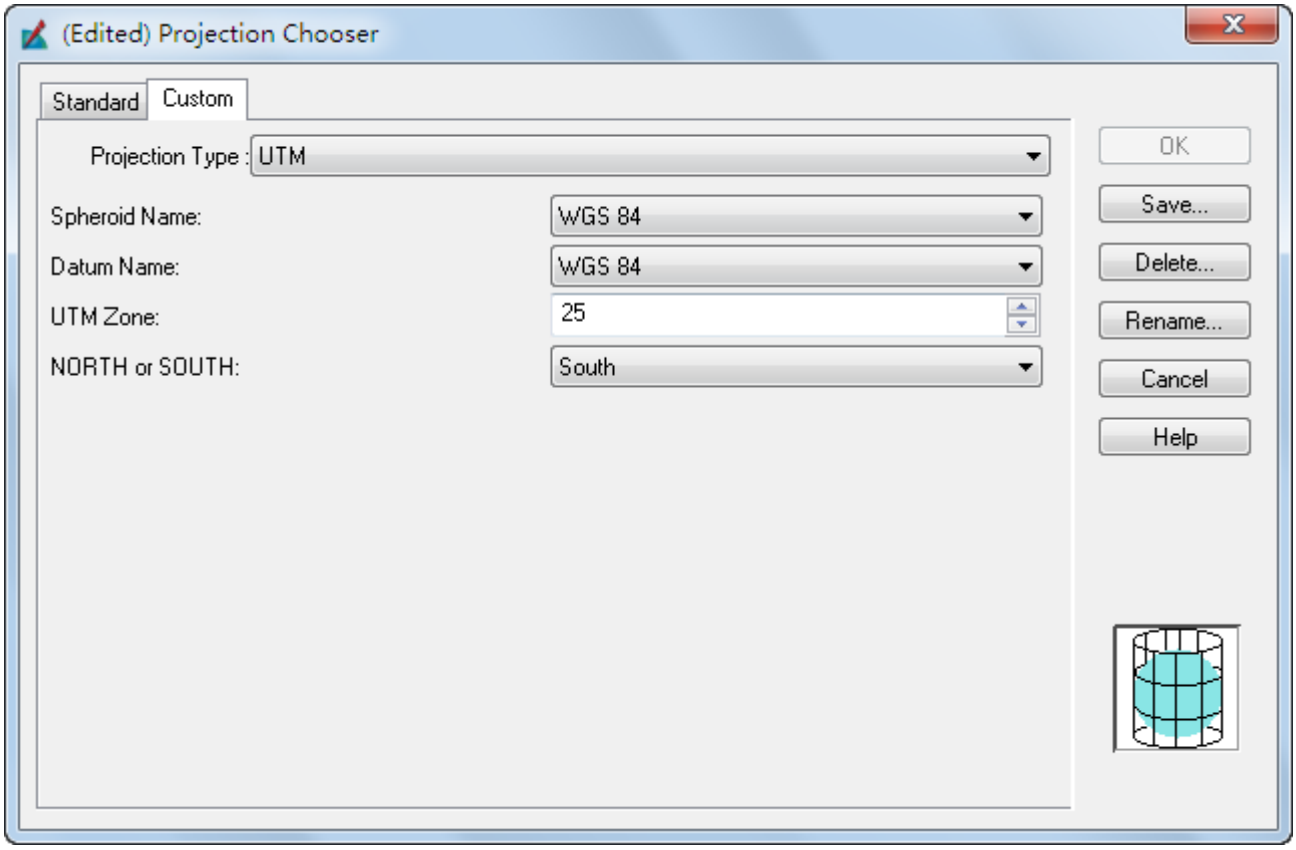
Projection Type **UTM**

Spheroid Name **WGS84**

Datum Name **WGS84**

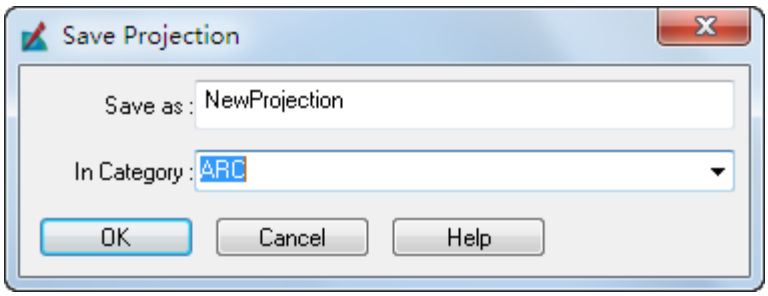
UTM Zone **25**

NORTH or SOUTH **South**



Save **NewProjection**

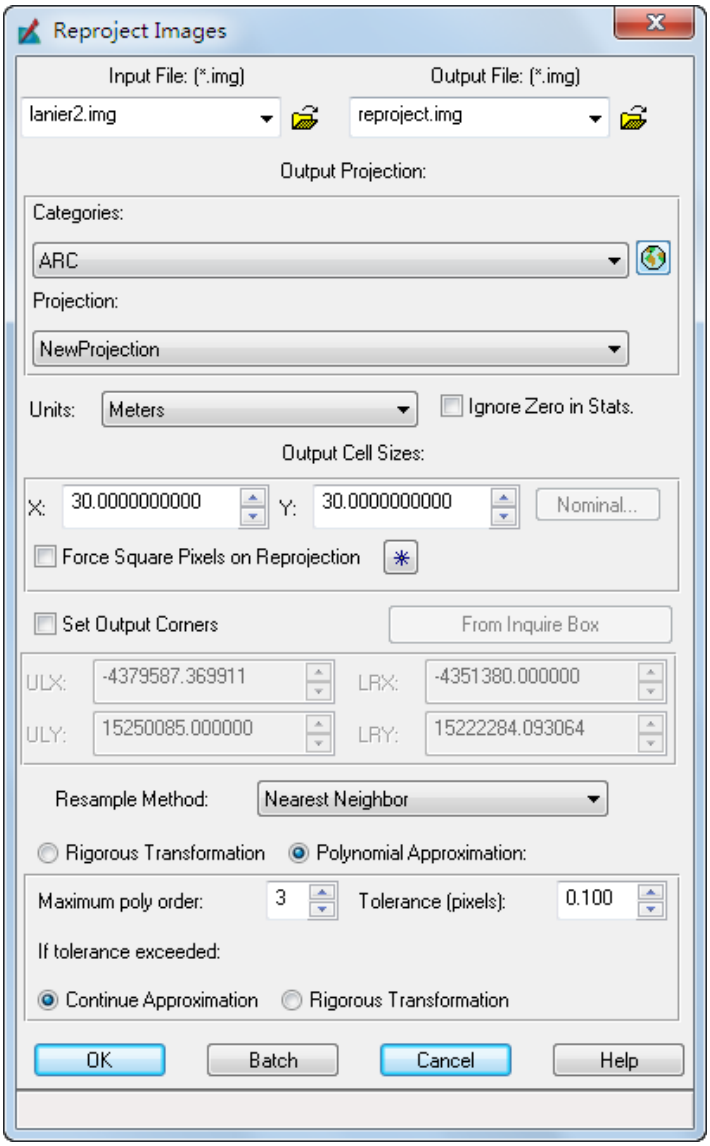
ARC **OK**



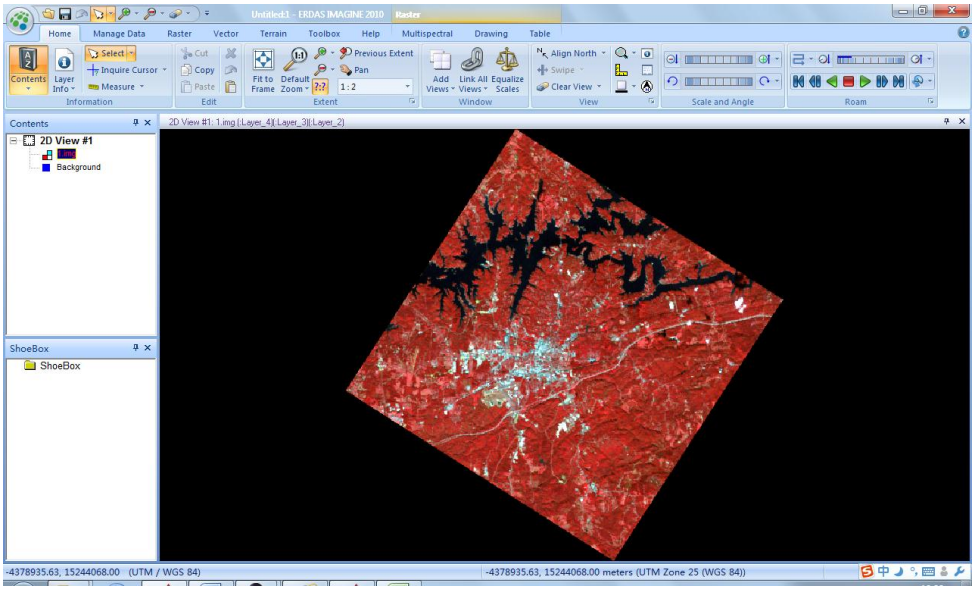
OK

Meters **30** **30**

(**Nearest Neighbor**) **OK**


Reproject Images
Input File: (*.img)
Output File: (*.img)
lanier2.img
reproject.img
Output Projection:
Categories:
ARC
Projection:
NewProjection
Units:
Meters
Ignore Zero in Stats.
Output Cell Sizes:
X:
30.0000000000
Y:
30.0000000000
Nominal...
Force Square Pixels on Reprojection
Set Output Corners
From Inquire Box
ULX:
-4379587.369911
LRX:
-4351380.000000
ULY:
15250085.000000
LRY:
15222284.093064
Resample Method:
Nearest Neighbor
Rigorous Transformation
Polynomial Approximation:
Maximum poly order:
3
Tolerance (pixels):
0.100
If tolerance exceeded:
Continue Approximation
Rigorous Transformation
OK
Batch
Cancel
Help

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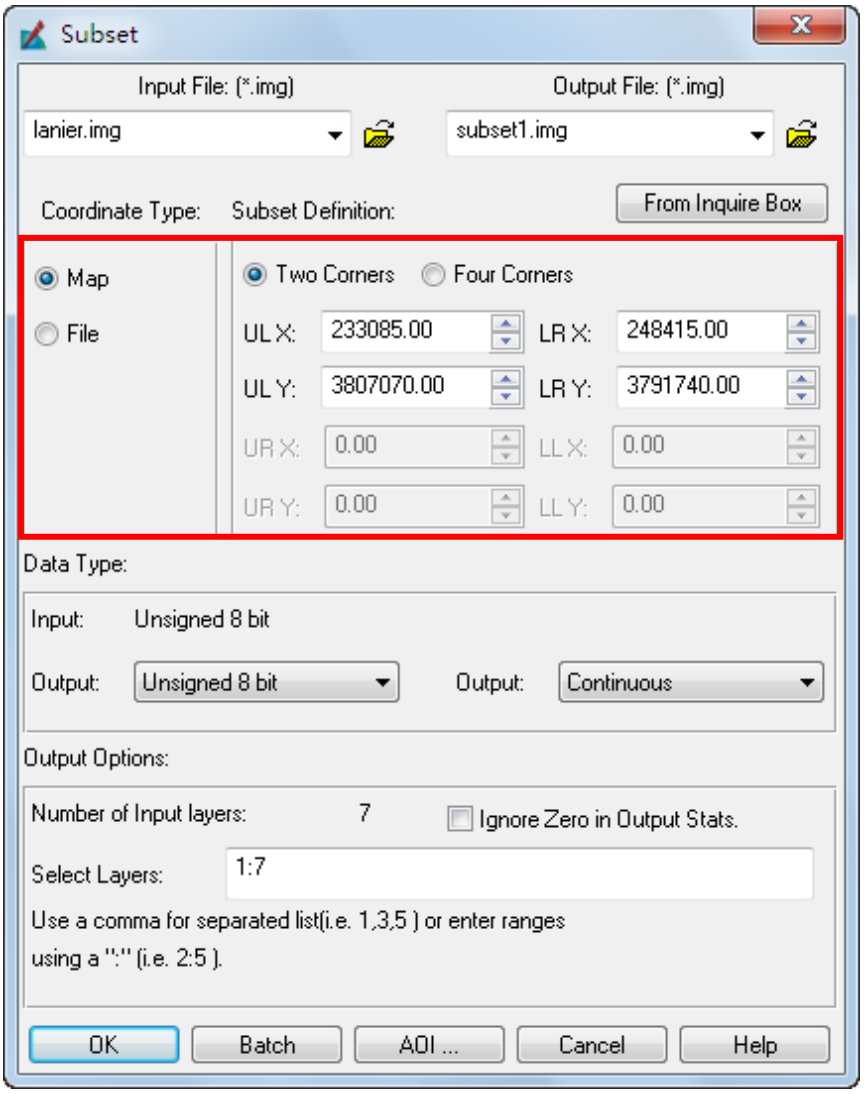


C:\Program Files\ERDAS\ERDAS Desktop 2010\examples\lanier.img

1

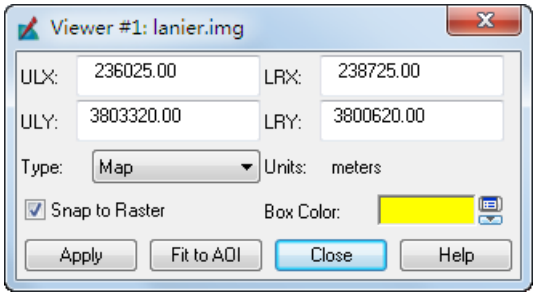
Raster **Geometry** **Subset&Chip** **Create Subset Image**

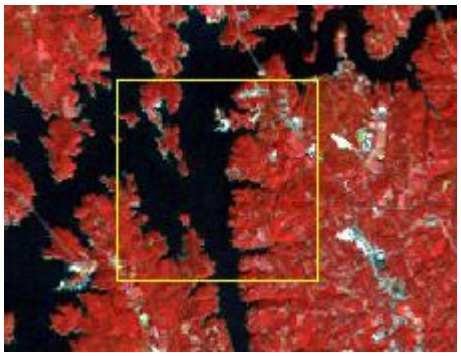
Subset lanier.img Subset1.img

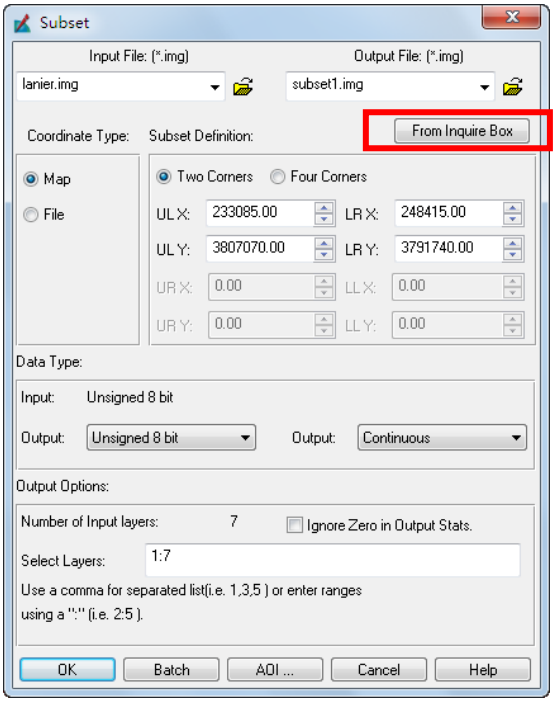


Ŷ (ض View ο Ɗρ ˘ **Inquire Box**) ض يح ″E Ţ └ ῡ ɷ ٧

ƀ ч Ⓟ ﺦ˘ U ض **Subset** Ţ Ɗρ **From Inquire Box** ٧ˆ Â



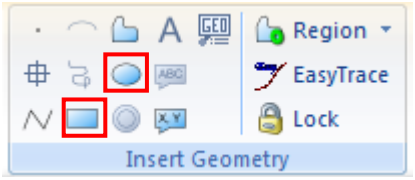




ŷ ح ″E Ţ └ ↕ AOI ĺ ﺦ˘ Ɗρ **Drawing** ٧˘ ض **Insert Geometry**

Ţ ↕ (à ﺕ) ض ″E Ţ └ Ⓟ ٧ ˘ Ḡ ỉ ض

Ţ ˆ ﺽ ﻝ ɷ ˜ Â



ﺝ ⌈ **Subset** Ţ˘ Ɗρ **AOI** ˘

ض ₣ Ţ **Viewer**ˆ Ḡ

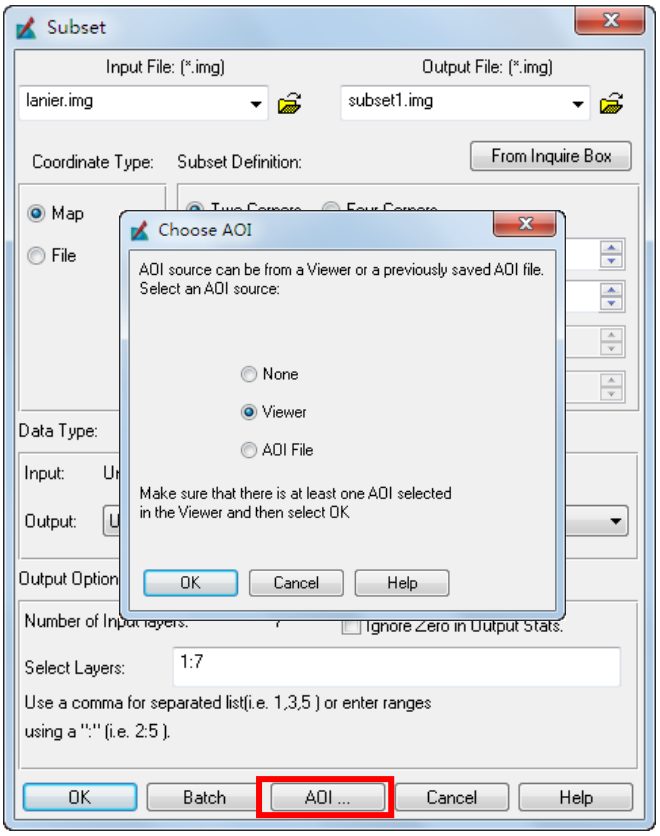
AOI Ð ↕ **AOI File**˜˜ Ɗρ **OK** Â

Б ₣ ﻡ ч **Unsigned** 8 **bit** à

Continuous

Б ₣ ч **1:7**(ˆ)

Ь Ɗρ **OK** ″E Ⓟ Â



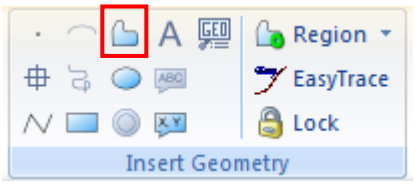
2 à Ь ↕ Ⓟ

ŵ ∀ ˘ ⍰ Â

Ŷ ┗ Ь ↕ **AOI**

ض Ţ Ⓟ ˝Ē Ɗρ

Drawing ∖˘ ض **Insert Geometry** Ţ



κ Íˆ ⁚ ⌠ ↕ Í З

ض ˜ Â

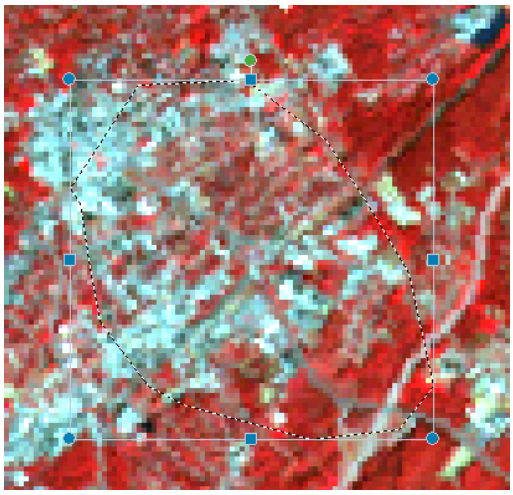
ض ˝E Ţ ┗ Ⓟ ∖ ˘ Ḡ ỉ ض

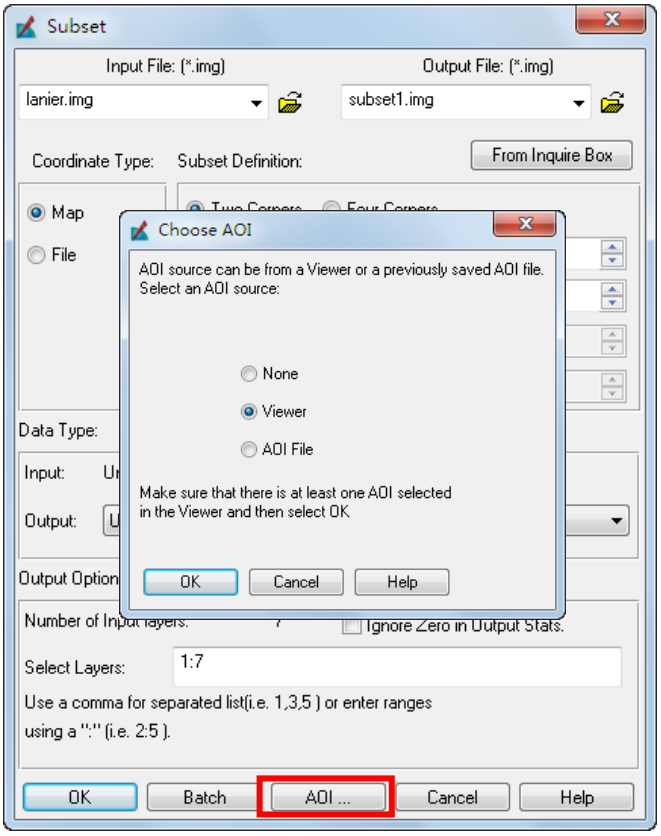
Ţ ˆ ضھ ѡ ˜ Â

ج ⌠ **Subset** Ţ˘ Ɗρ **AOI** ˘ ض

Ŧ Ţ **Viewer**ˆ Ḡ

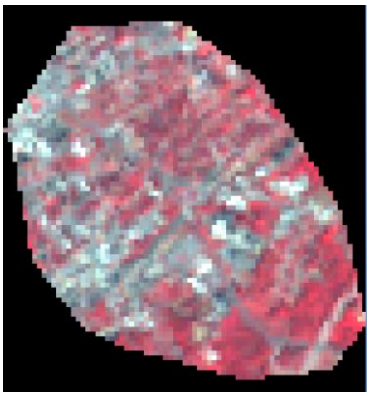
AOI Ð ↕ **AOI File**˜˜ Ɗρ **OK** Â





ŷ Ŧ ههم ч **Unsigned** 8 **bit** à **Continuous**˘ Ŧ ч **1:7** Ɗρ **OK**

˝E Ⓟ Â



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' C:\Program Files\ERDAS\ERDAS Desktop 2010\examples\

ώ ' QuickBird_Pyramids_MS.img

№ ' QuickBird_Pyramids_Pan.img

ƀ '

1 à h № Ť

Γ Ð **Raster** ٧ ˇ ض **Resolution** Ţ Ð **Pan Sharpen** ىد ˇ



ض Ѝ ٧ **Resolution Merge** Â

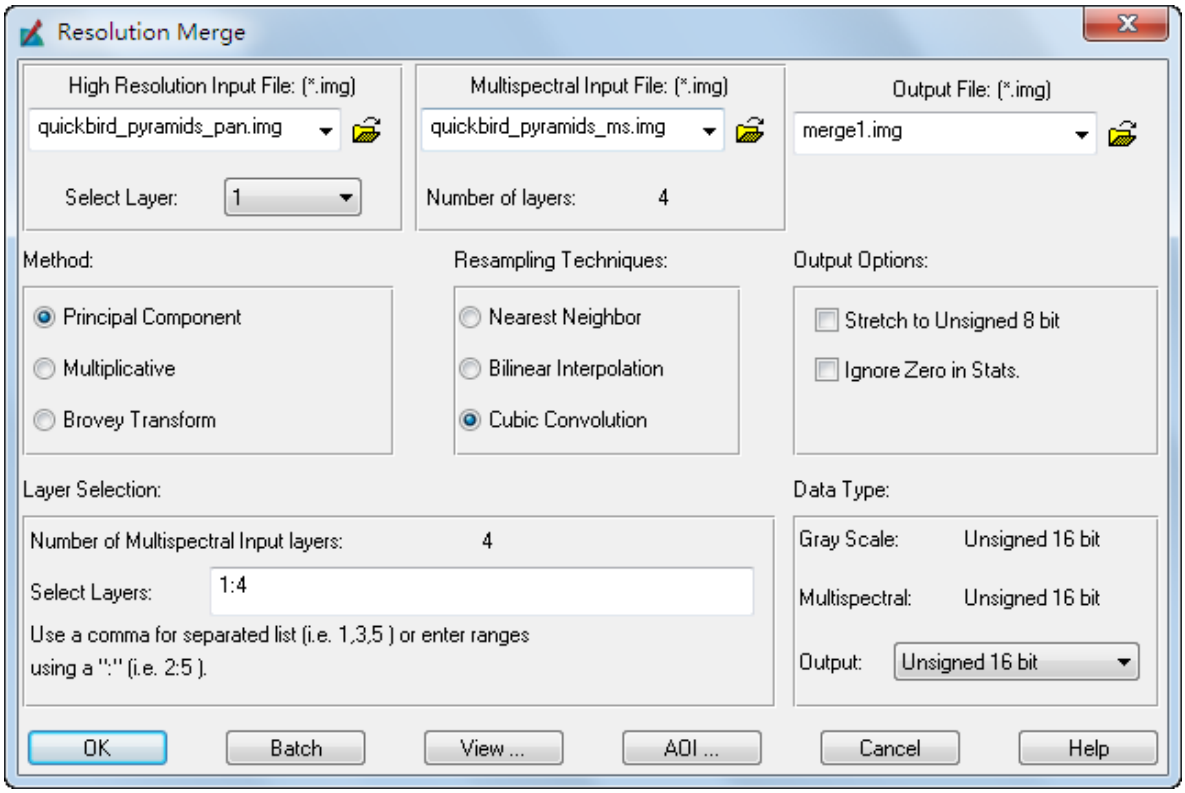


ƀ ض ₣ **Resolution Merge** Ţ № ˜

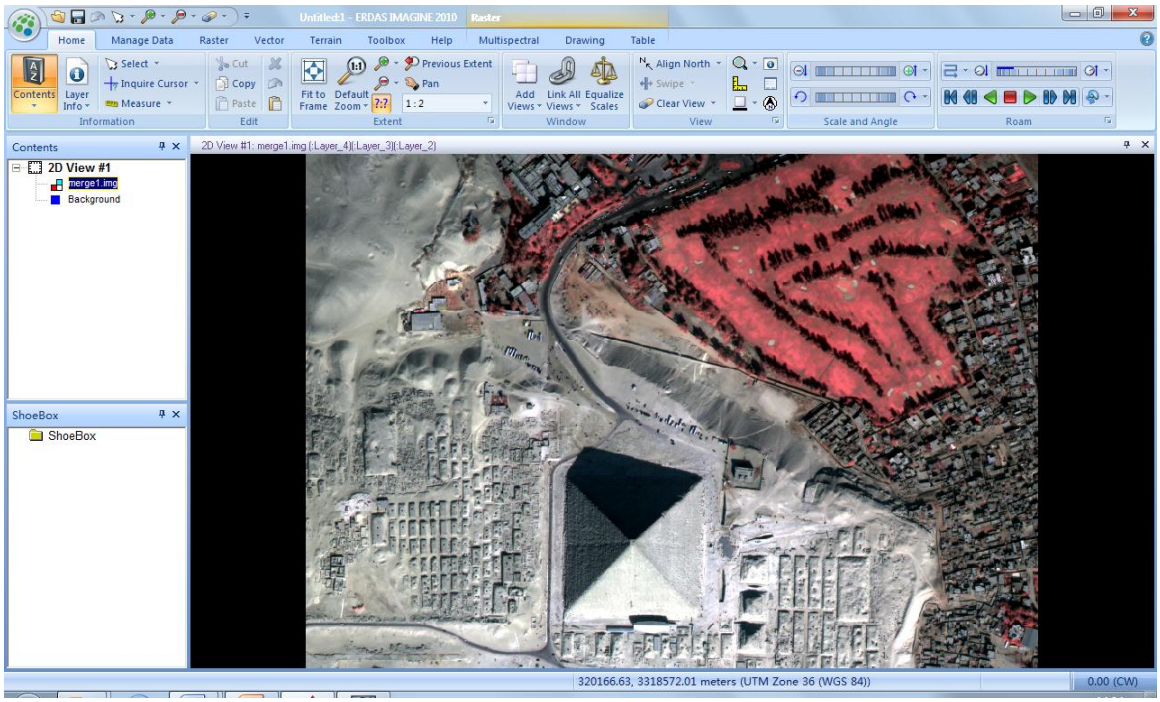
ð ч **QuickBird_Pyramids_Pan.img**ˇ ώ ˜ ч **QuickBird_Pyramids_MS.img**ˇ Ч ₣ ĭ ð Oˇ

ч **Merge1.img** Â

Ɓ h № Ť **(Principal Component)**ˇ ٨ **(Cubic Convolution)**ˇ ₣ ч **1:4**ˇ ₣ ٩٩٩ ч **Unsigned 16 bit**ˇ Ð **OK** "E Â



Б U ضي ید ٥ Ţ Â



2 à **Subtractive** ...

ſ Ð **Raster** ٧ ضي **Resolution** Ţ Ð **Pan Sharpen** ید ˇ ضي Й ٧ **Subtractive Resolution Merge** Â

ƀ ضي ₣ **Subtractive Resolution Merge** Ţ ѽ ~ ч **QuickBird_Pyramids_MS.img** № ~ Đ ч **QuickBird_Pyramids_Pan.img** Ų ₣ ї Đ O ч **Merge2.img** Â

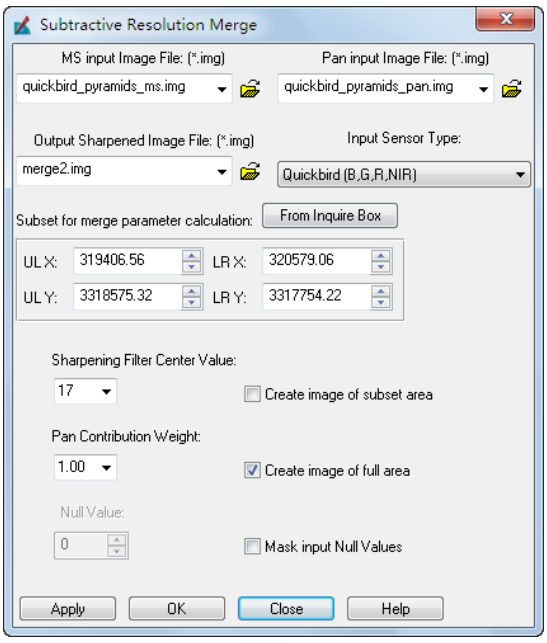
Ɓ D ک فهم ч **QuickBird(B,G,R,NIR)**

Sharpening Filter Center Value ч **17**

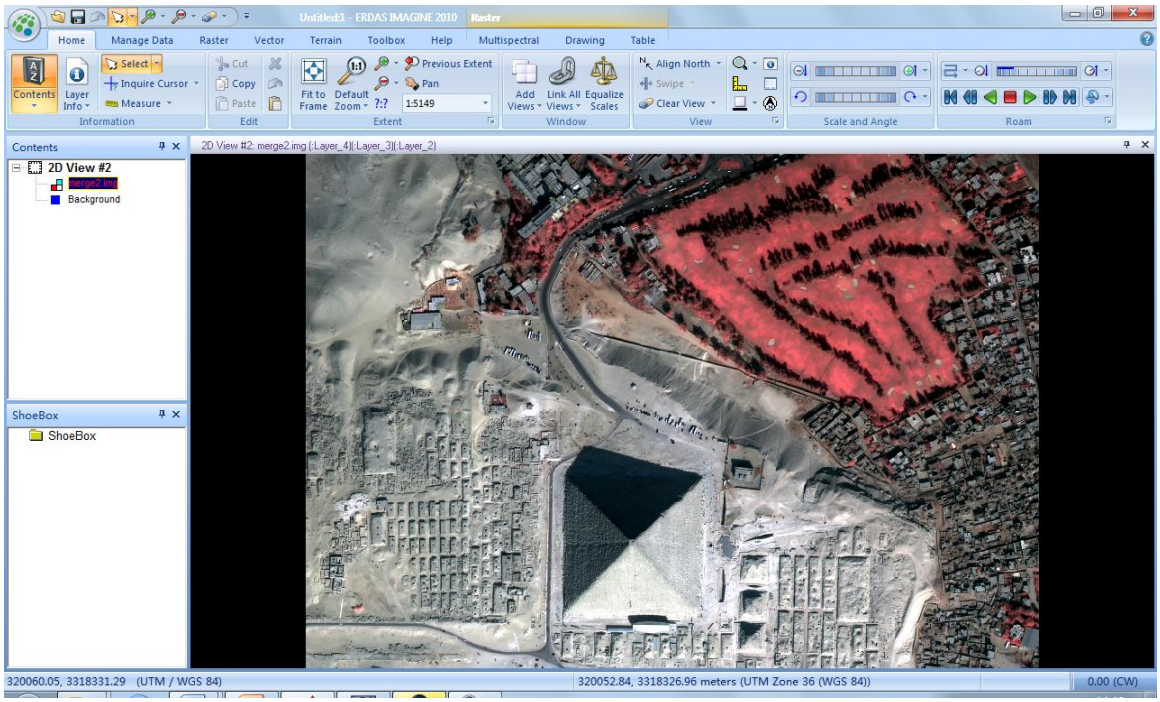
Pan Contribution Weight ч **1.00**

Create image of full areas Â

Ð **OK** ... Â



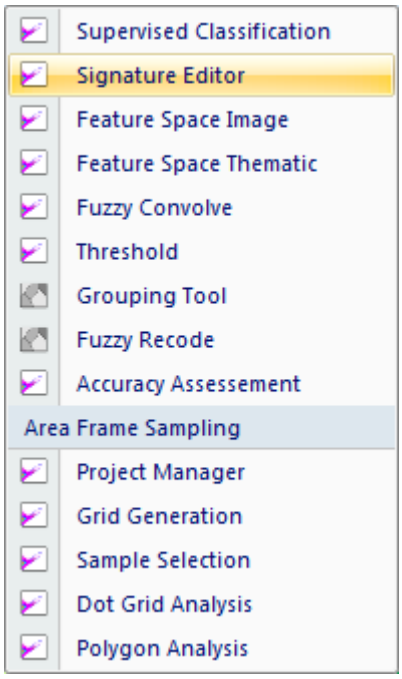
Б U ضي يد ٥ Ţ Â

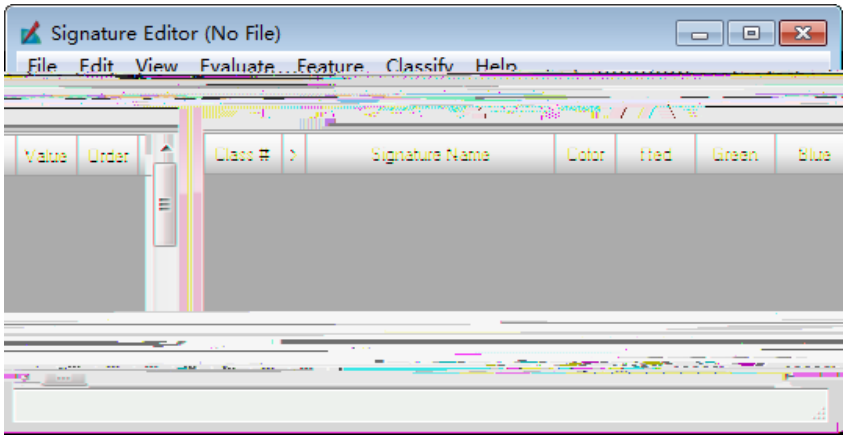

Untitled:1 - ERDAS IMAGINE 2010
Raster
Home
Manage Data
Raster
Vector
Terrain
Toolbox
Help
Multispectral
Drawing
Table
Contents
Layer Info
Select
Inquire Cursor
Measure
Information
Cut
Copy
Paste
Edit
Fit to Frame
Default Zoom
Previous Extent
Pan
1:5149
Extent
Add Views
Link All Views
Equalize Scales
Window
Align North
Swipe
Clear View
View
Scale and Angle
Roam
Contents
2D View #2
merge2.img
Background
ShoeBox
ShoeBox
2D View #2: merge2.img (:Layer_4)(:Layer_3)(:Layer_2)
320060.05, 3318331.29 (UTM / WGS 84)
320052.84, 3318326.96 meters (UTM Zone 36 (WGS 84))
0.00 (CW)

C:\Program Files\ERDAS\ERDAS Desktop 2010\examples\germtm.img

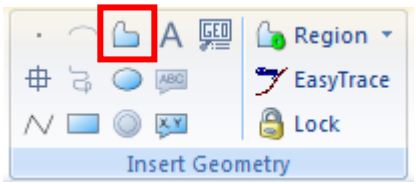
1 **Menu** **Open** **Raster Layer** **Viewer** **Open Raster Layer** **germtm.img**

Raster **Classification** **Supervised** **Signature Editor**

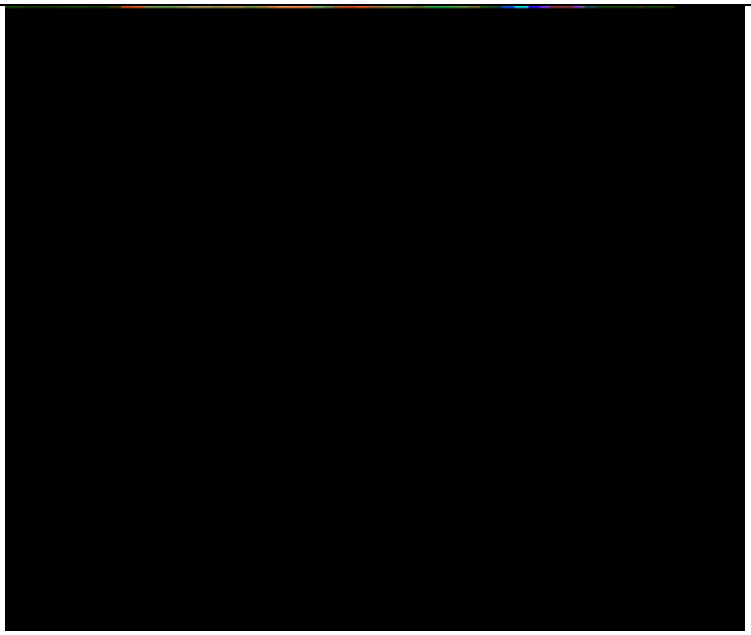




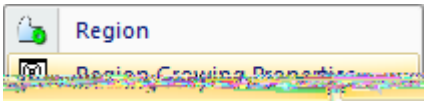
a. **Drawing** **Insert Geometry** **AOI**



AOI

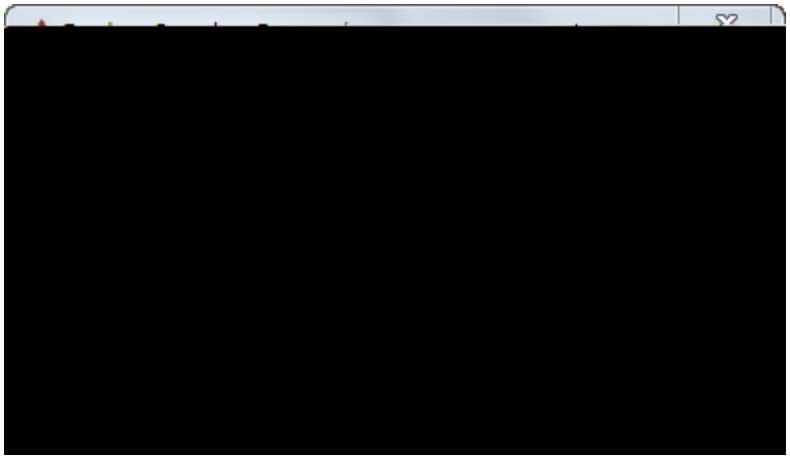


b.ضي **Insert Geometry** Ţ Ɗρ Ꙗ Ί **Region**



يح ˘ ضي Ѝ Ꙗ Ţ **Region Growing Properties** Â

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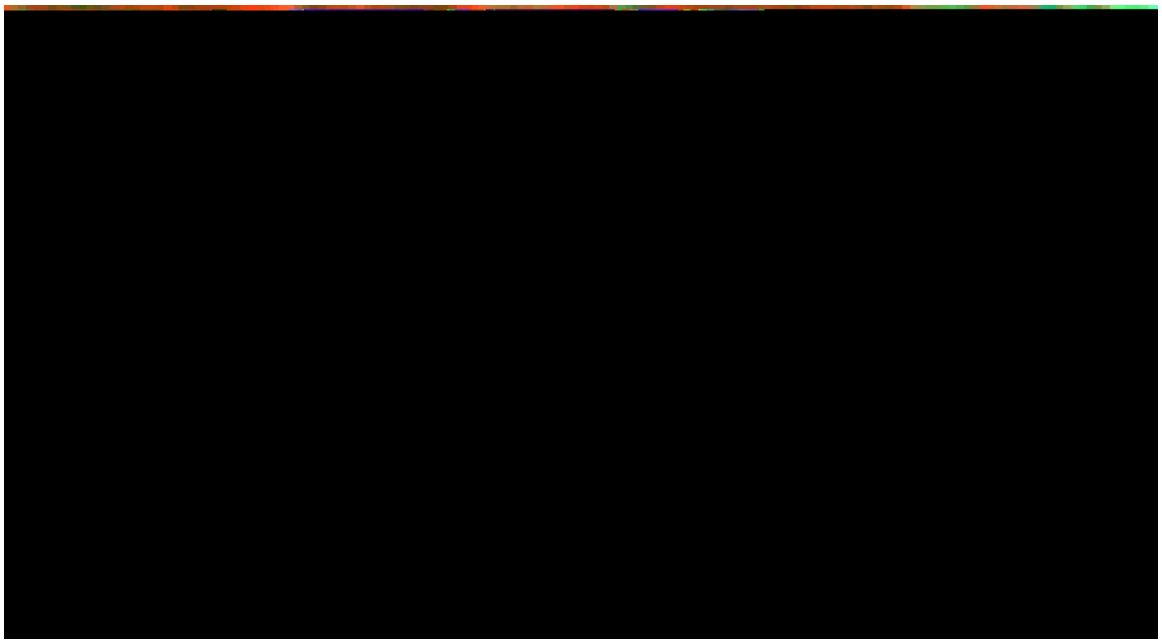


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ᾠ (Spectral Euclidean Distance)˘ ˆ ˝E˝Ḥ ’ ˘ r ˝E˝Ḥ شخ ₩ Ꙗ ˆ ץ’

ǎ ҥ U˘ Ɗρ Ꙗ Ί **Region** يح ˘ Ῐ ч Ⱳ ᾠ ˘ ضي ˝E Ţ ضر Ɗρ ₩ ˘ ˆ ˫ ᵒᵒ ₩ ɷ AOI˘ ˆ ץ ǎ ќ ˘ Ɗρ **Redo** ץ g, AOI Â



Ä ą **Home** Й **Information** Ţ **Inquire Cursor** Ð

Â U Region Growing Properties Ţ Ð

Grow at Inquire Y AOI Â



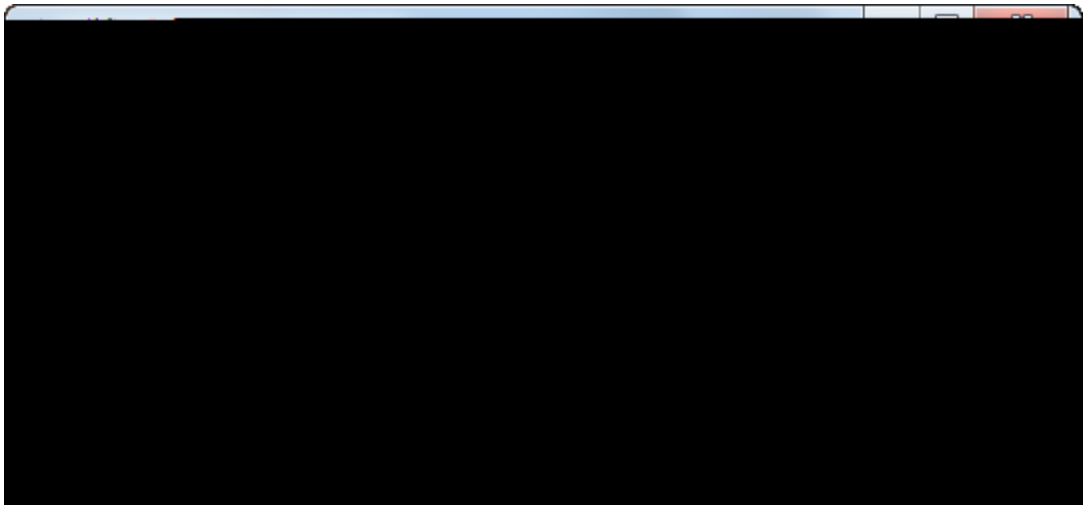
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Signature Editor Ţ AOI Â

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ضي Ɛ ο Ţ Ⅾρ يح ˘ Ⅾρ **View** ∤ Ӈ **Select Viewer**

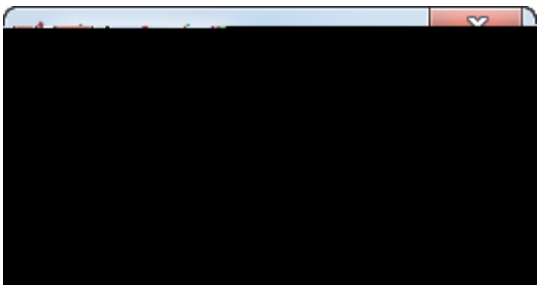


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ضي **Accuracy Assessment** Ţ Ⅾρ **View** ∤ Ӈ **Change Color**˘



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ӑ ν (**Points with Reference**) Â Ⅾρ **OK** Â

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ض **Accuracy Assessment** Ţ˘ *Đ*ρ **Report** ϟ Й̨ **Accuracy Report**̂ ˚˚ №

ɒ˜˜ ض ERDAS ϛ ο ˘ ˆ ϒ *Đ*ρ **File** ϟ Й̨ **Save** Ḡ ч ɒ

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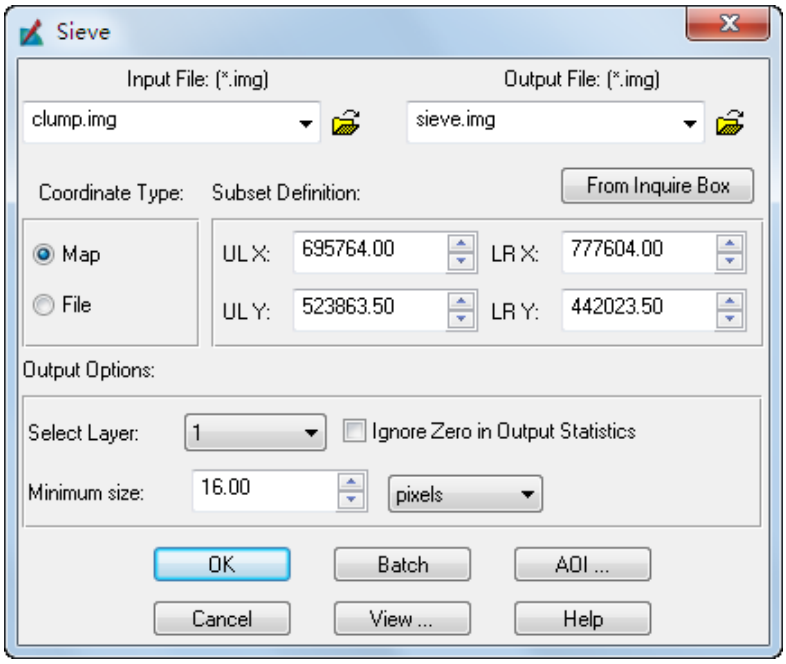
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Ð **Raster** Ì Ï **Raster GIS** Ţ **Thematic** ¤ ˘ ض Ï Ì Ţ **Sieve** Â

ض ₣ **Sieve** Ţ ˜ Đ Ч clump.img˘ ₣ Đ Ч sieve.img

¤ ^ **Minimum Size˜'** **16 pixels** (')

Ð **OK** №



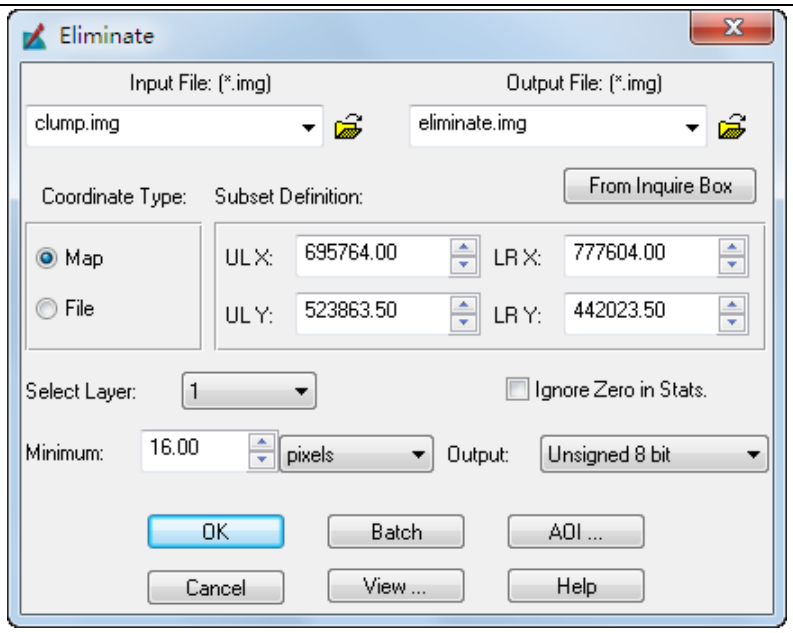
Ъ˘ № ^ Eliminate˜

Ð **Raster** Ì Ï **Raster GIS** Ţ **Thematic** ¤ ˘ ض Ï Ì Ţ **Eliminate** Â

ض ₣ **Eliminate** Ţ ˜ Đ Ч clump.img˘ ₣ Đ Ч eliminate.img

¤ ^ **Minimum˜'** **16 pixels** (')

Ð **OK** ˘ №

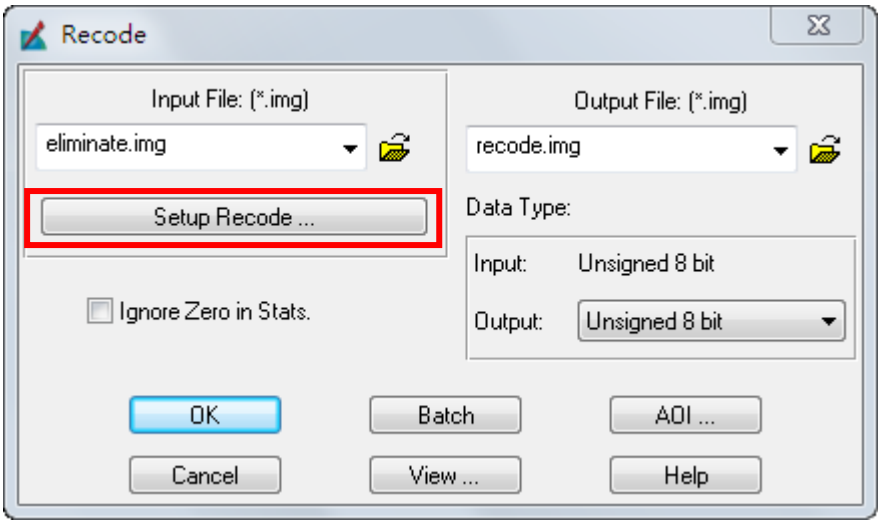


Б № ˆ Recode˜

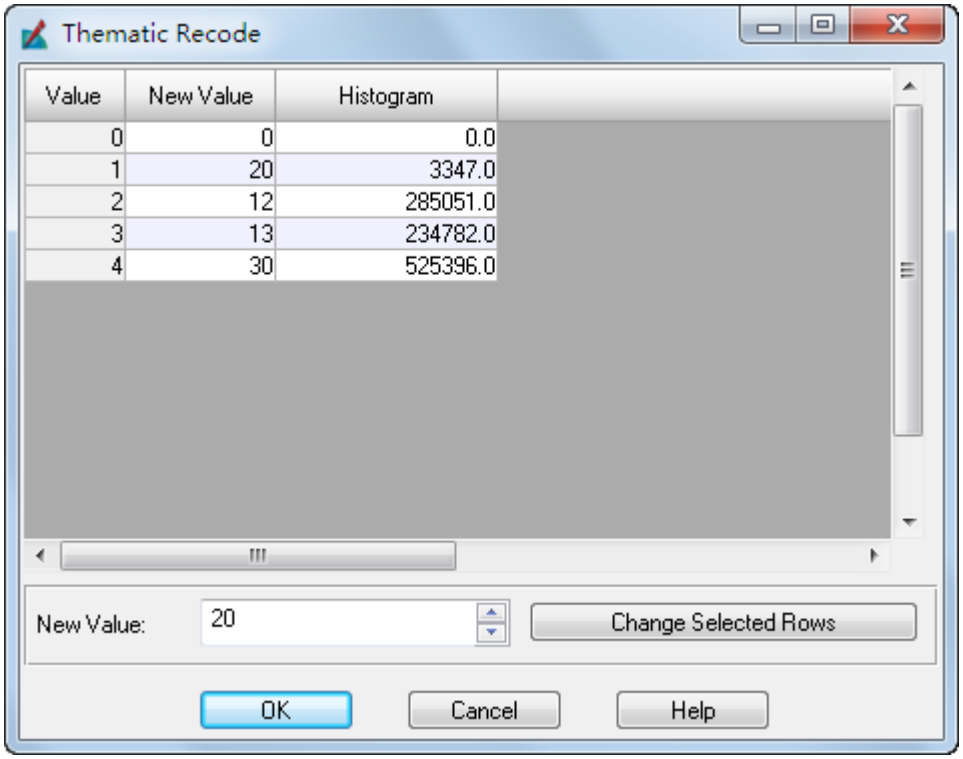
Ð **Raster** ¼ Й **Raster GIS** Ţ **Thematic** ˘ ض Й ¼ Ţ **Recode** Â

ض ₣ **Recode** Ţ ˜ Ð ¿ ₣ Ð Â

Ð **Setup Recode** ˘ № Â



ض **Thematic Recode** Ţ˘ ĺ **New value** ŭ ˅ˆ ˜ ˜



U Đρ **OK** ˜ **Thematic Recode**

Đρ **Recode** Ţ **OK**ˆ ˜ ~~ ﻳد ″E

ˆ ﻱ ﺽ Ţ U Ғ № ﻳد ″E˜ № Â

