

Unsupervised Classification

مقرر التحسس النائي العملي (ج ٢١٠ع)
جامعة البصرة – كلية العلوم – قسم علم الأرض

اعداد

أ. د. علي خالد

م. م. ضحى صالح

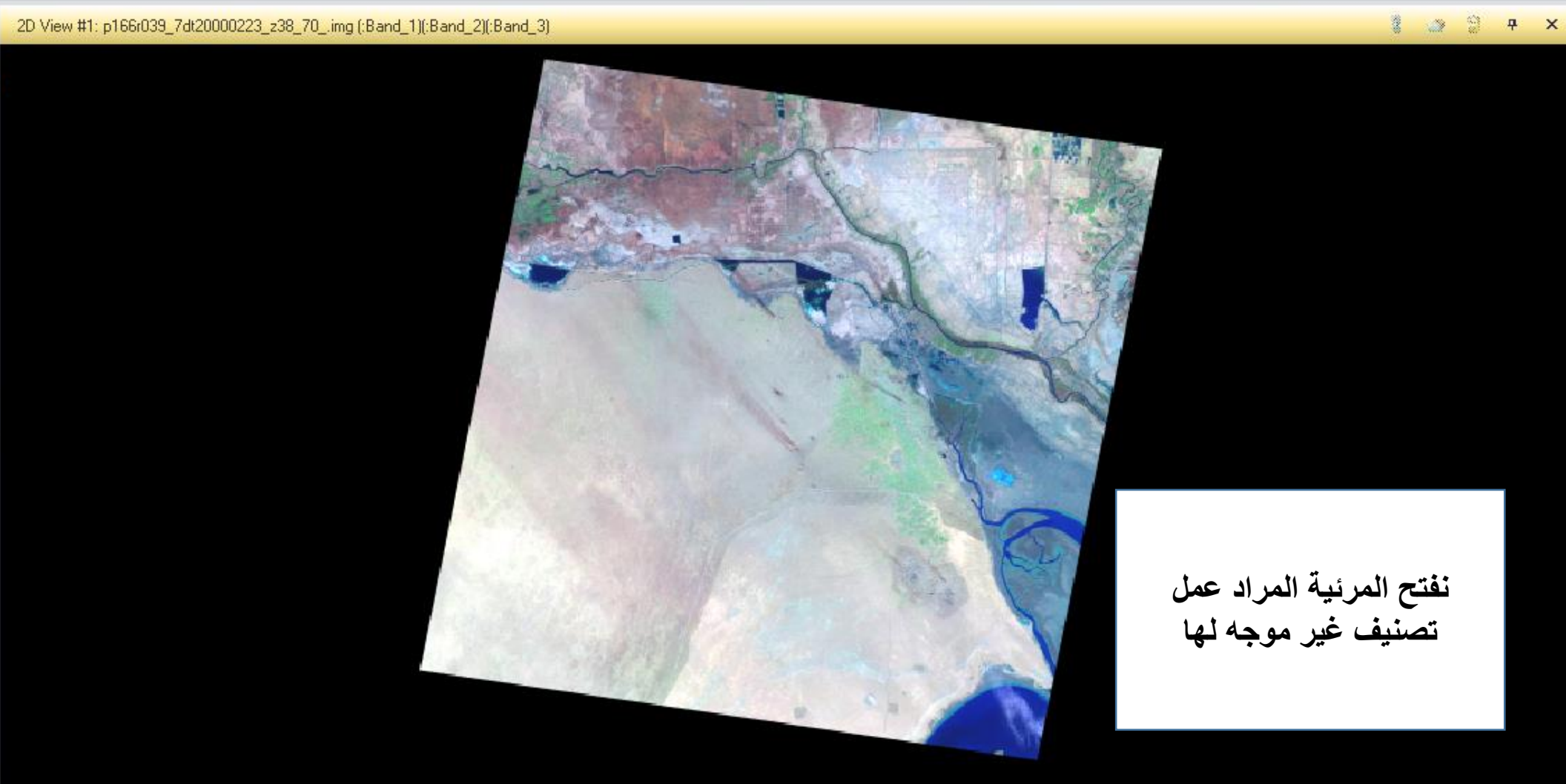
ERDAS IMAGINE 2014

File Home Manage Data Raster Vector Terrain Toolbox Help Multispectral Drawing Format Table

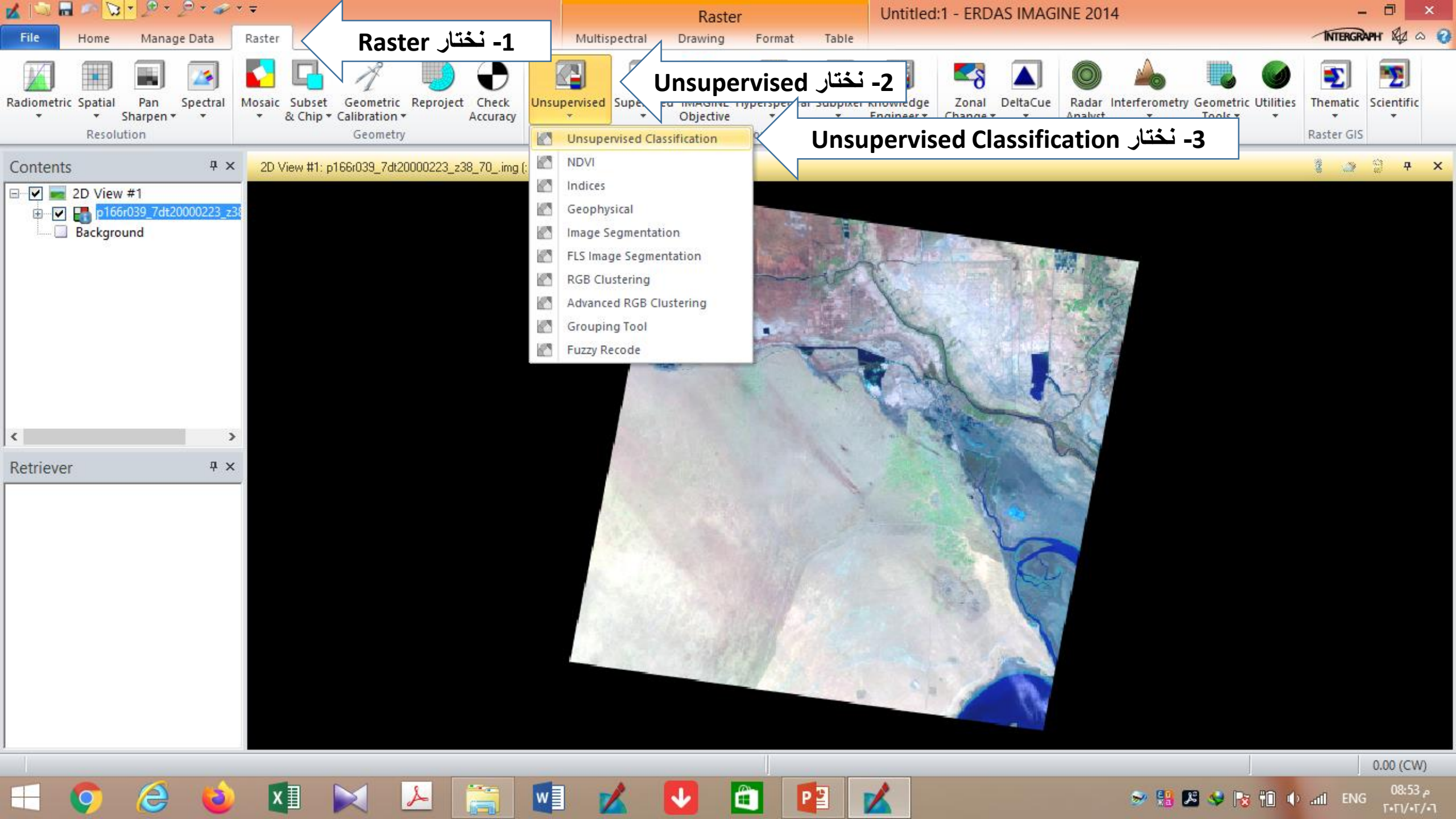
Select Cut Copy Paste Fit to Frame Reset Extent 1:1462209 Previous Extent Pan Add Views Link Views Equalize Scales Align North Swipe Clear View Basemap Scale and Angle Room

Contents

- 2D View #1
 - p166r039_7dt20000223_z38
 - Background



نفتح المرئية المراد عمل
تصنيف غير موجه لها

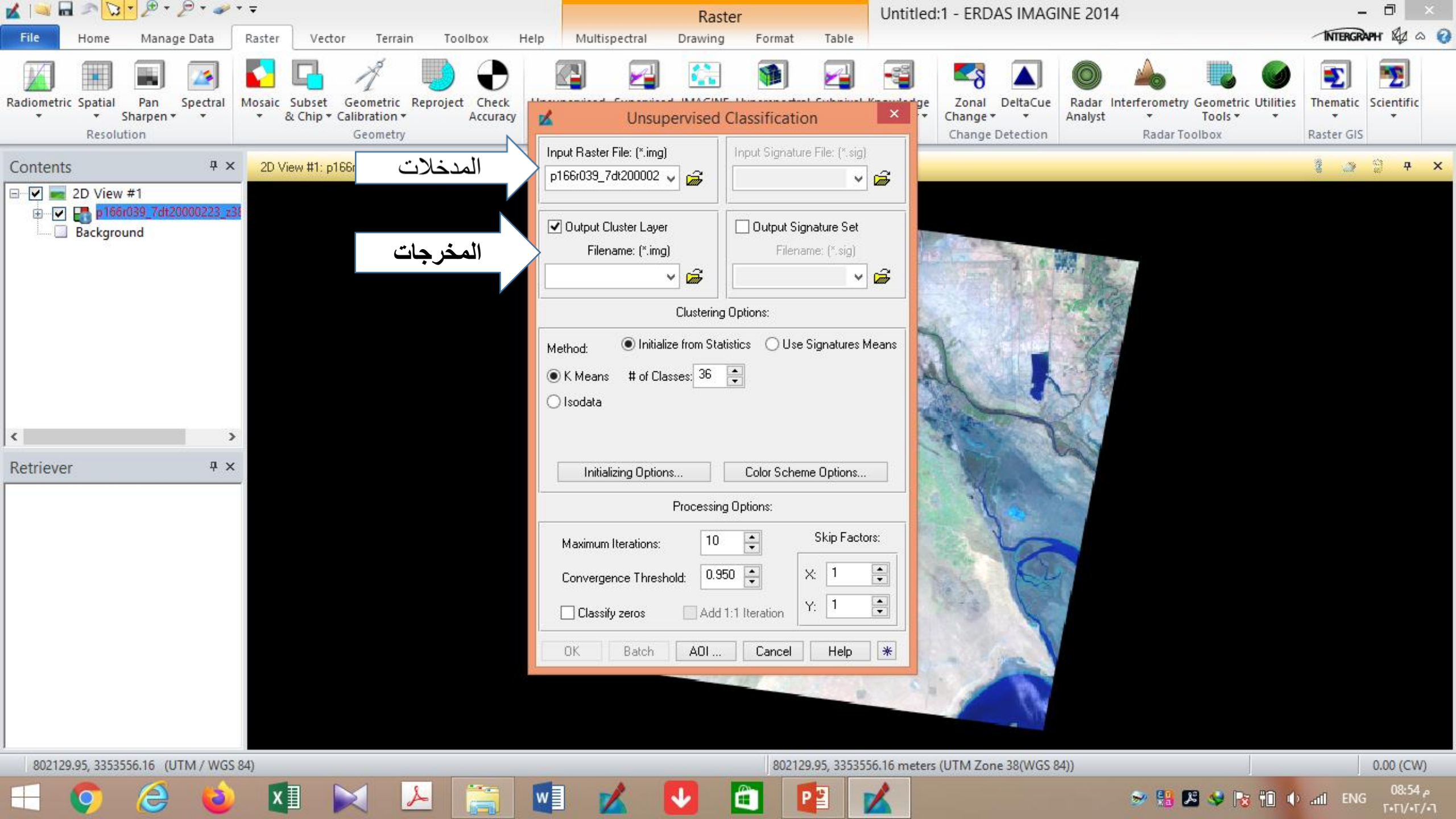


Raster نختار -1

Unsupervised نختار -2

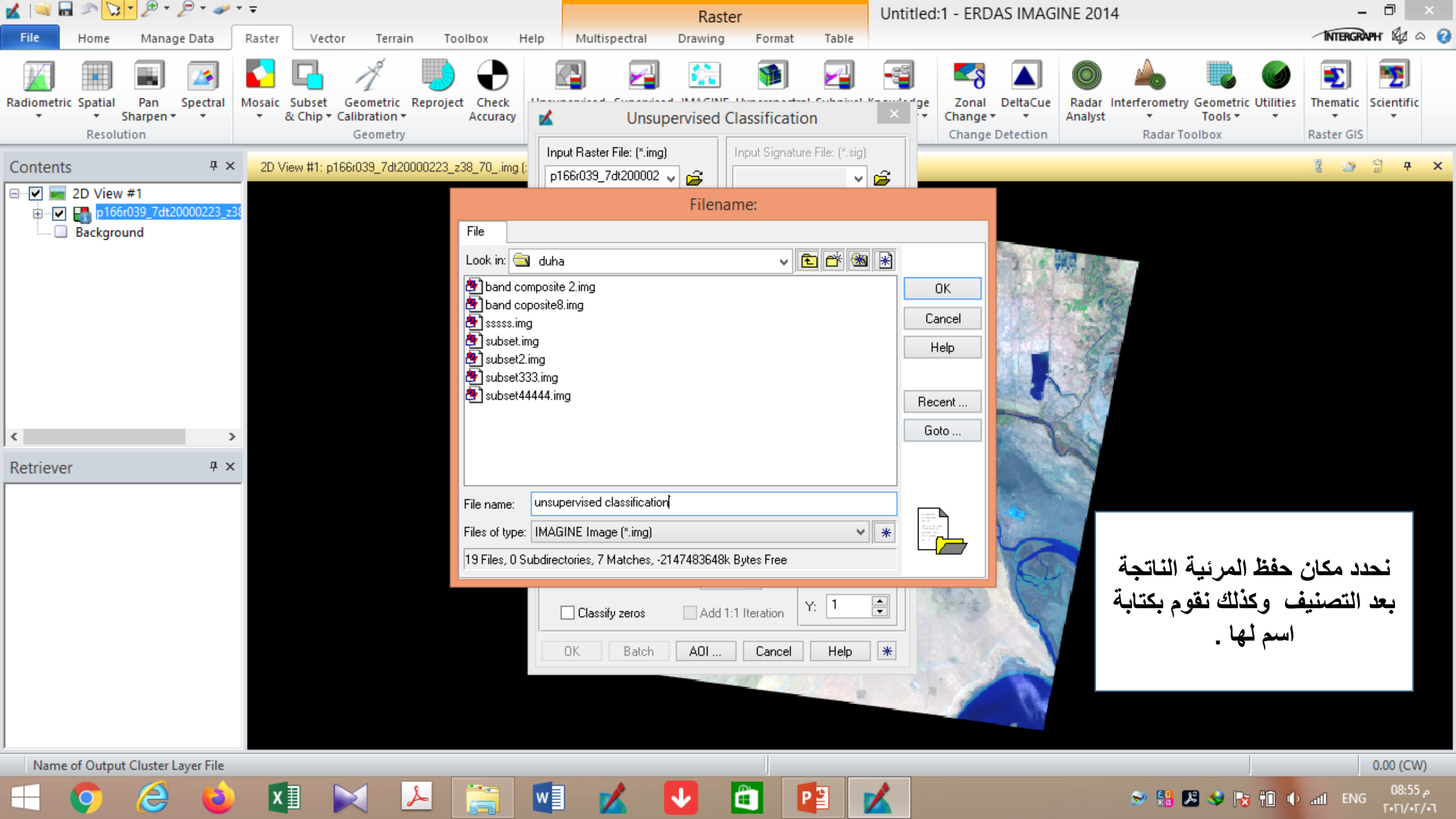
Unsupervised Classification نختار -3

- Unsupervised Classification
- NDVI
- Indices
- Geophysical
- Image Segmentation
- FLS Image Segmentation
- RGB Clustering
- Advanced RGB Clustering
- Grouping Tool
- Fuzzy Recode



المدخلات

المخرجات



File Home Manage Data Raster Vector Terrain Toolbox Help Multispectral Drawing Format Table

Radiometric Spatial Pan Spectral Mosaic Subset Geometric Reproject Check Geometric
Resolution Sharpen Accuracy Calibration Geometry

Unsupervised Classification

Zonal DeltaCue Radar Interferometry Geometric Utilities Thematic Scientific
Change Detection Change Detection Analyst Radar Toolbox Tools Raster GIS

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2D View #1: p166r039_7dt20000223_z38_70_img (

Input Raster File: (*.img)
p166r039_7dt200002

Input Signature File: (*.sig)

Filename:

File

Look in: duha

- band composite 2.img
- band coposite8.img
- sssss.img
- subset.img
- subset2.img
- subset333.img
- subset44444.img

File name: unsupervised classification

Files of type: IMAGINE Image (*.img)

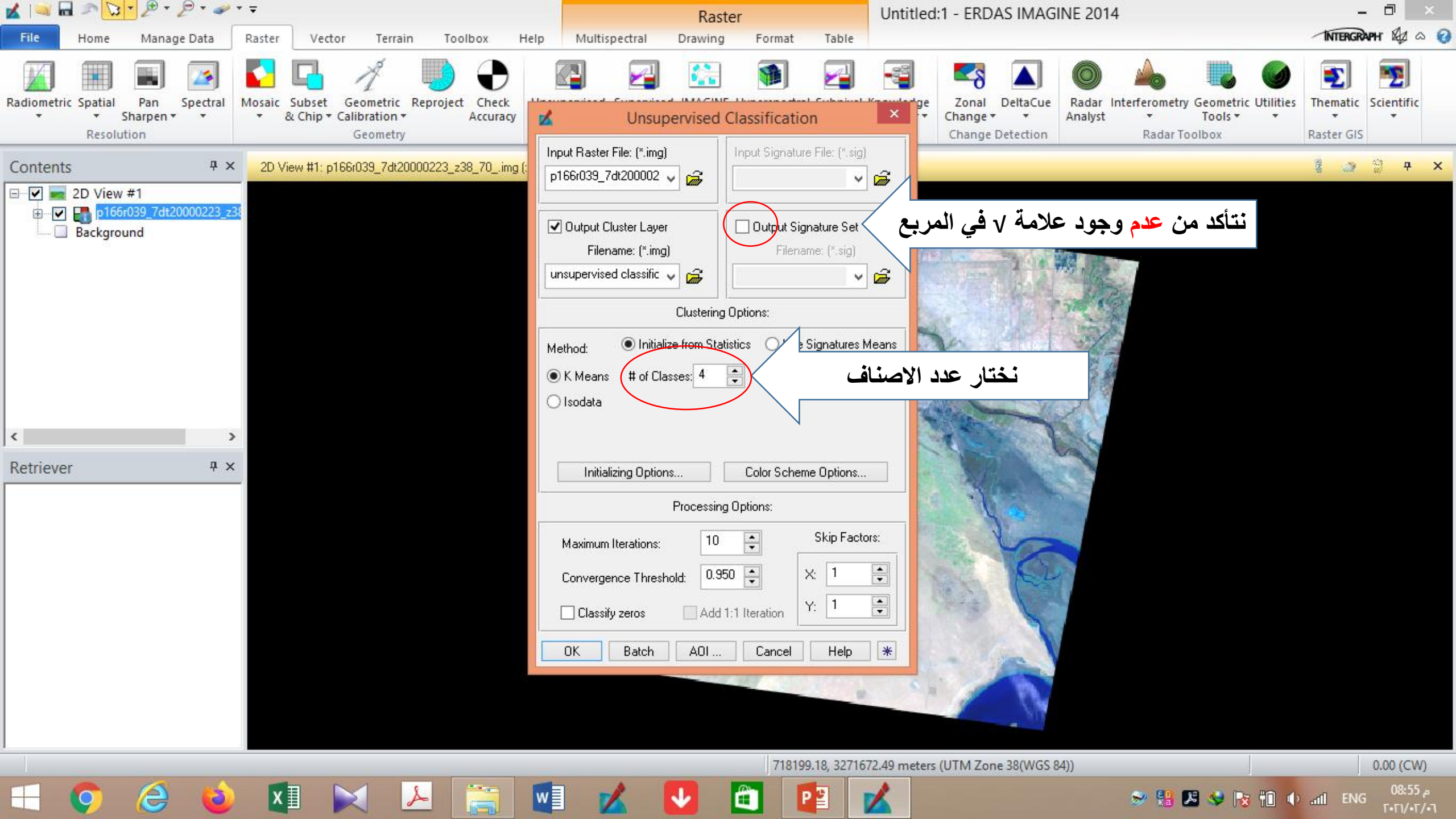
19 Files, 0 Subdirectories, 7 Matches, -2147483648k Bytes Free

OK Cancel Help Recent ... Goto ...

Classify zeros Add 1:1 Iteration Y: 1

OK Batch AOI ... Cancel Help *

نحدد مكان حفظ المرئية الناتجة
بعد التصنيف وكذلك نقوم بكتابة
اسم لها .



Unsupervised Classification

Input Raster File: (*.img)
p166r039_7dt200002

Input Signature File: (*.sig)

Output Cluster Layer
Filename: (*.img)
unsupervised classific

Output Signature Set
Filename: (*.sig)

Clustering Options:

Method: Initialize from Statistics Signatures Means

K Means # of Classes: 4

Isodata

Initializing Options... Color Scheme Options...

Processing Options:

Maximum Iterations: 10 Skip Factors:

Convergence Threshold: 0.950 X: 1

Classify zeros Add 1:1 Iteration Y: 1

OK Batch AOI ... Cancel Help *

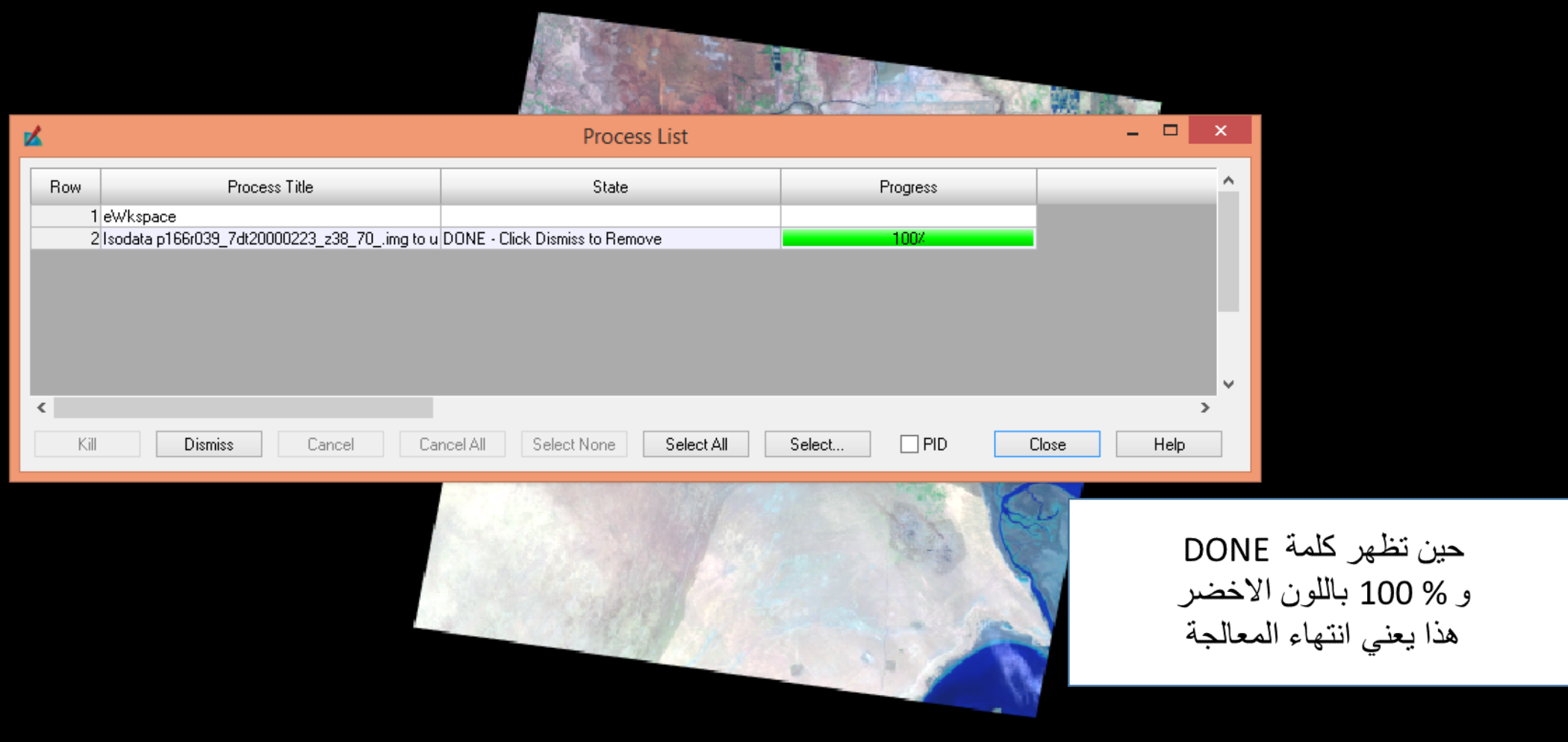
نتأكد من عدم وجود علامة v في المربع

نختار عدد الاصناف

Contents

- 2D View #1
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2D View #1: p166r039_7dt20000223_z38_70_img (:Band_1)(:Band_2)(:Band_3)



Process List

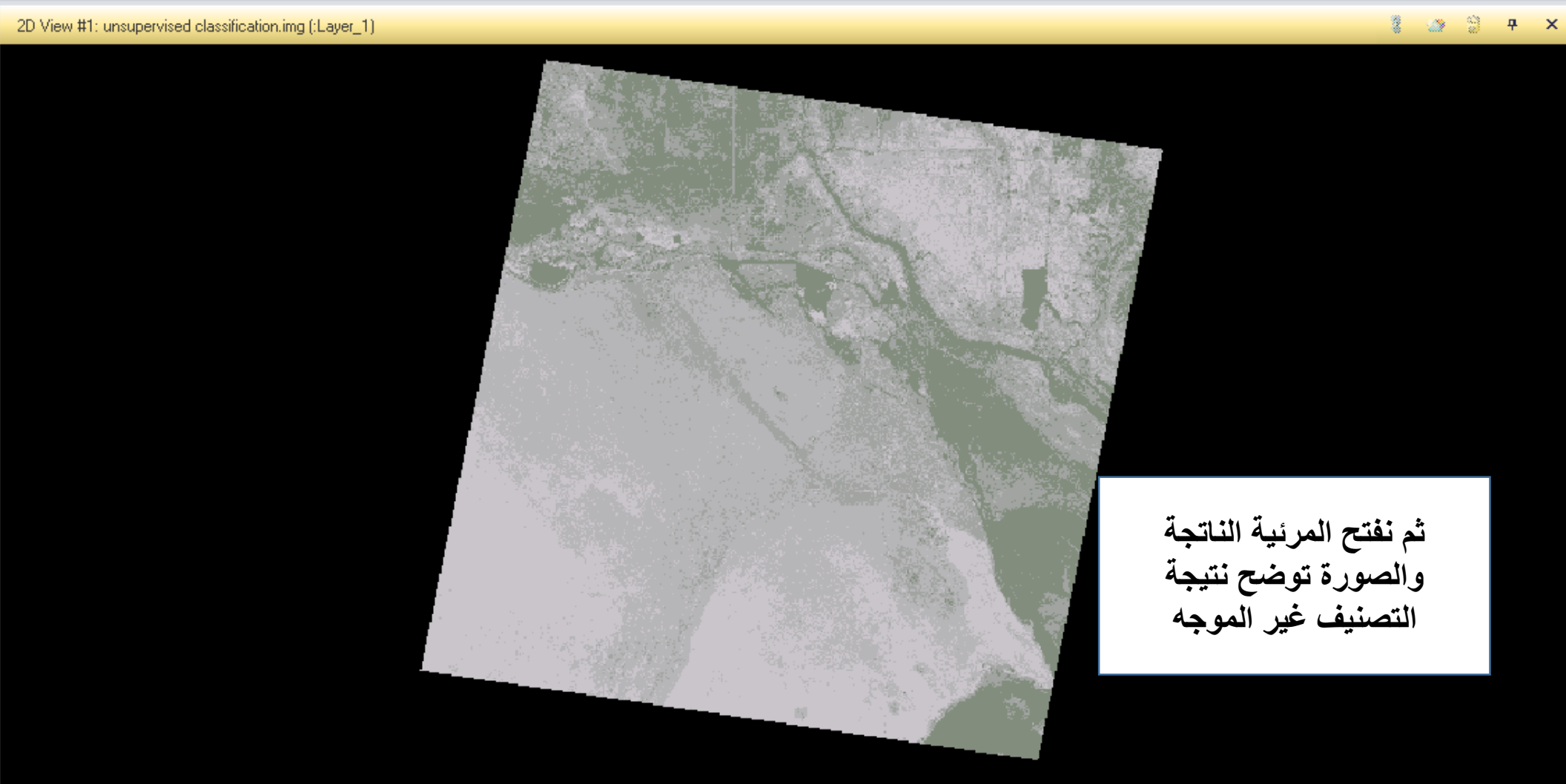
Row	Process Title	State	Progress
1	e\workspace		
2	Isodata p166r039_7dt20000223_z38_70_img to u	DONE - Click Dismiss to Remove	100%

Kill Dismiss Cancel Cancel All Select None Select All Select... PID Close Help

حين تظهر كلمة DONE و 100 % باللون الاخضر هذا يعني انتهاء المعالجة

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ثم نفتح المرئية الناتجة
والصورة توضح نتيجة
التصنيف غير الموجه

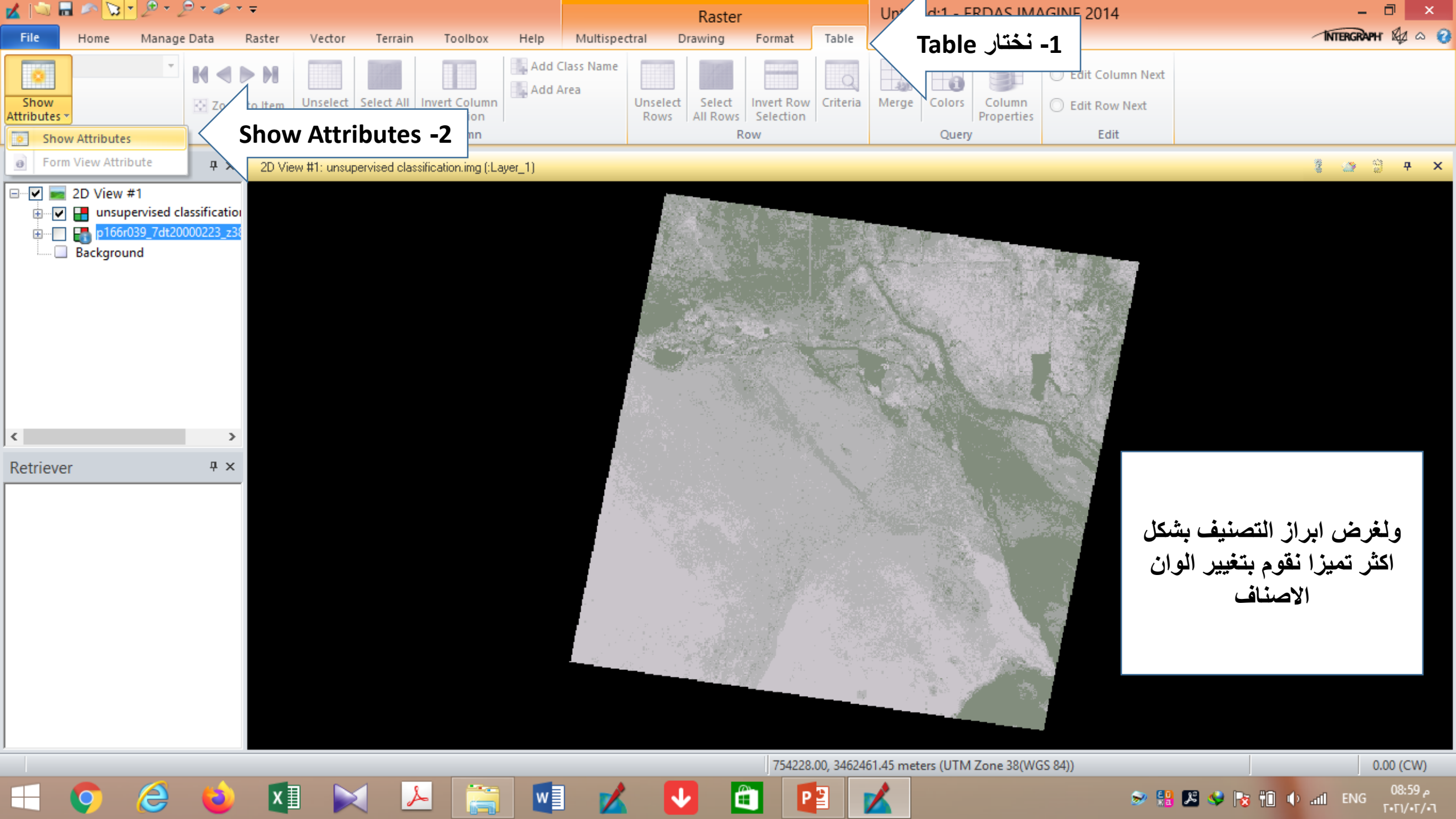


Table نختار -1

Show Attributes -2

ولغرض ابراز التصنيف بشكل
اكثر تميزا نقوم بتغيير الوان
الاصناف

754228.00, 3462461.45 meters (UTM Zone 38(WGS 84))

0.00 (CW)



File Home Manage Data Raster Vector Terrain Toolbox Help Thematic Drawing Format Table

Layer_1

Show Attributes

Zoom to Item

Unselect Columns Select All Columns Invert Column Selection

Add Class Name Add Area

Unselect Rows Select All Rows Invert Row Selection

Criteria Merge Colors Column Properties

Edit Column Next Edit Row Next

Edit

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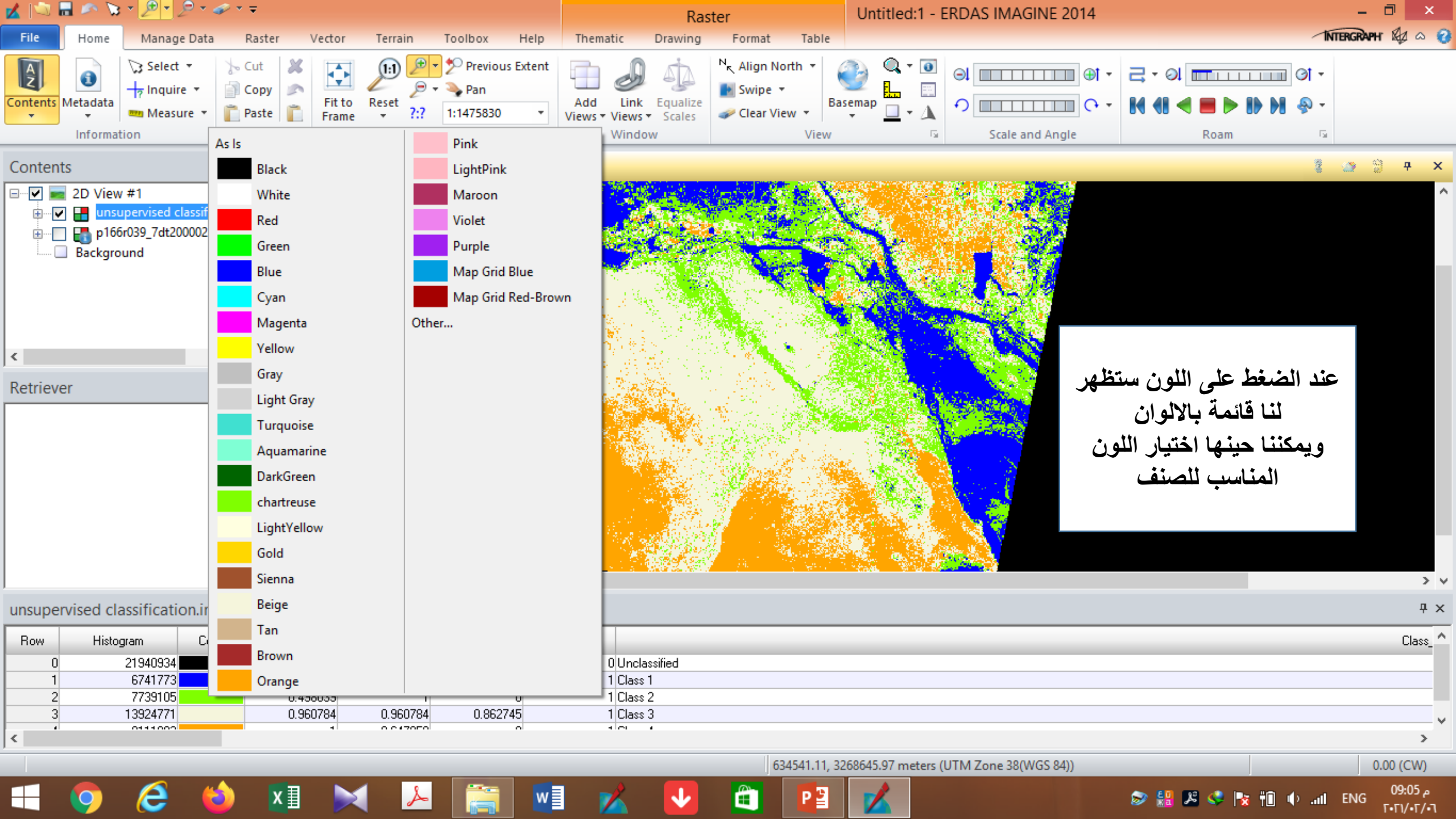
Retriever



سيظهر لنا هذا الجدول الذي يحتوي على التصنيفات الاربعه

unsupervised classification.img

Row	Histogram	Color	Red	Green	Blue	Opacity	Class
0	21940934		0	0	0	0	Unclassified
1	6741773		0.51	0.553	0.49	1	Class 1
2	7739105		0.631	0.643	0.631	1	Class 2



File Home Manage Data Raster Vector Terrain Toolbox Help Thematic Drawing Format Table

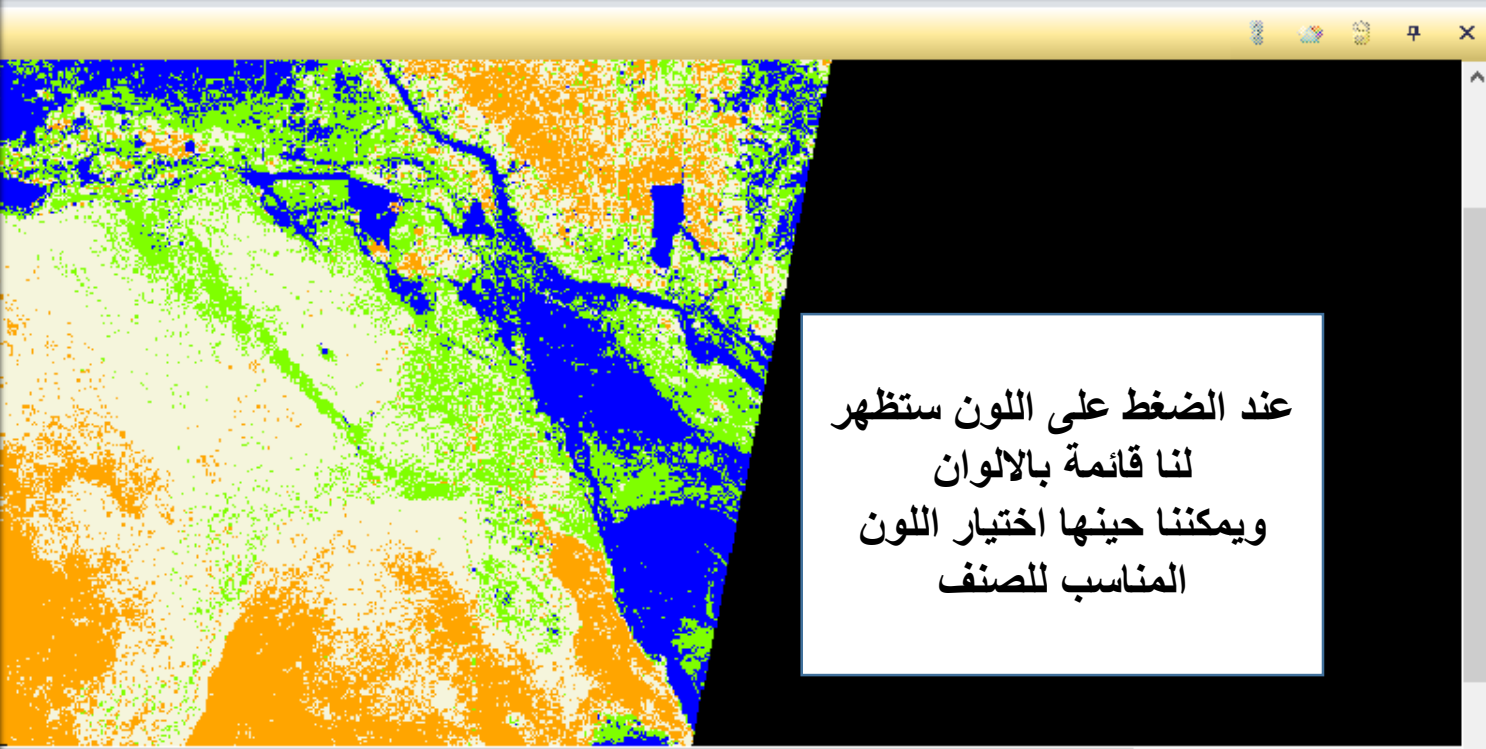
Select Inquire Measure Cut Copy Paste Fit to Frame Reset 1:1475830 Previous Extent Pan Add Views Link Views Equalize Scales Align North Swipe Clear View Basemap Scale and Angle Room

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As Is

- Black
- White
- Red
- Green
- Blue
- Cyan
- Magenta
- Yellow
- Gray
- Light Gray
- Turquoise
- Aquamarine
- DarkGreen
- chartreuse
- LightYellow
- Gold
- Sienna
- Beige
- Tan
- Brown
- Orange
- Pink
- LightPink
- Maroon
- Violet
- Purple
- Map Grid Blue
- Map Grid Red-Brown
- Other...



unsupervised classification.ir

Row	Histogram	Class
0	21940934	Unclassified
1	6741773	Class 1
2	7739105	Class 2
3	13924771	Class 3

Class
0 Unclassified
1 Class 1
1 Class 2
1 Class 3

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Retriever

