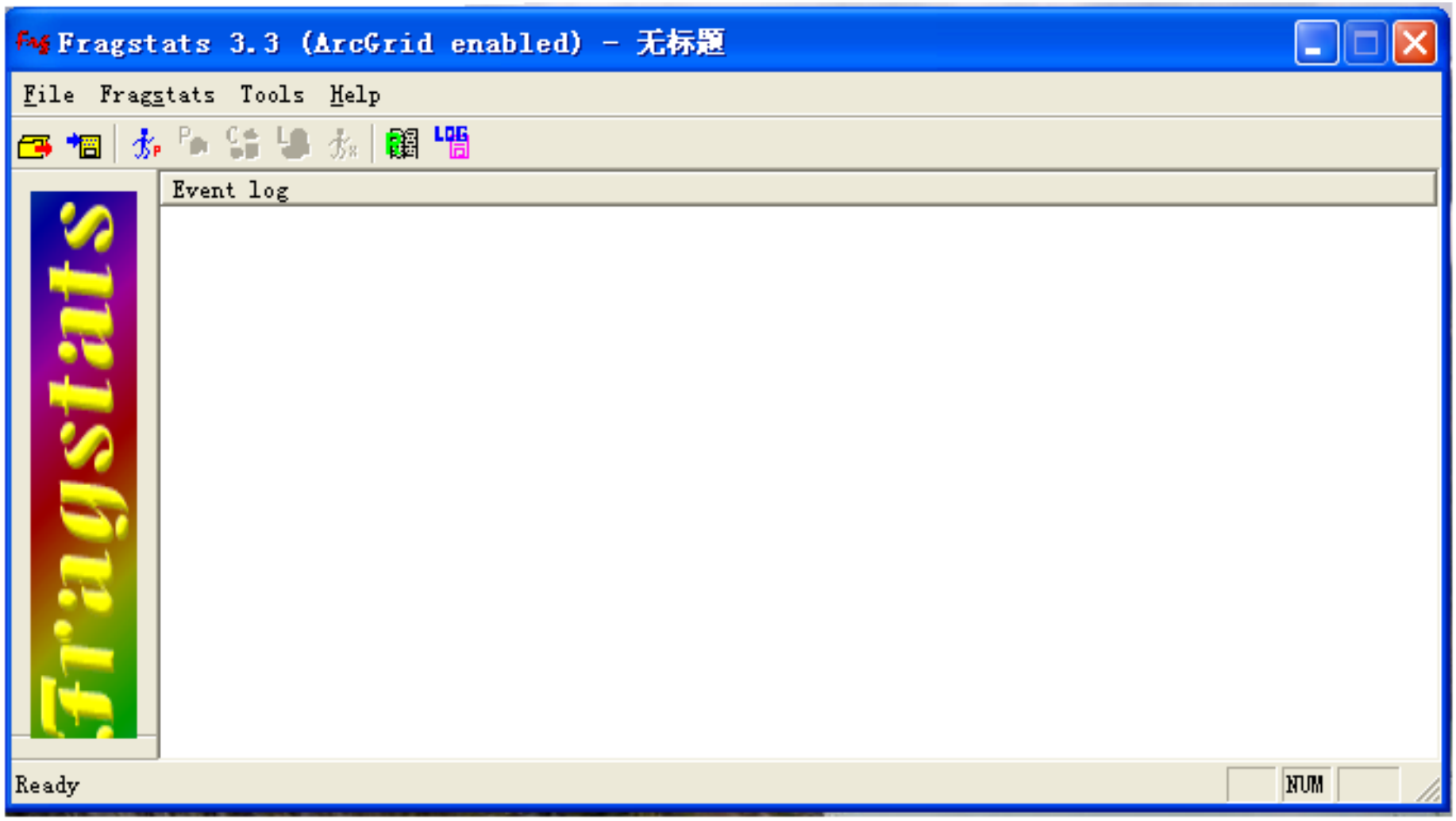
景观格局软件Fragstats简介

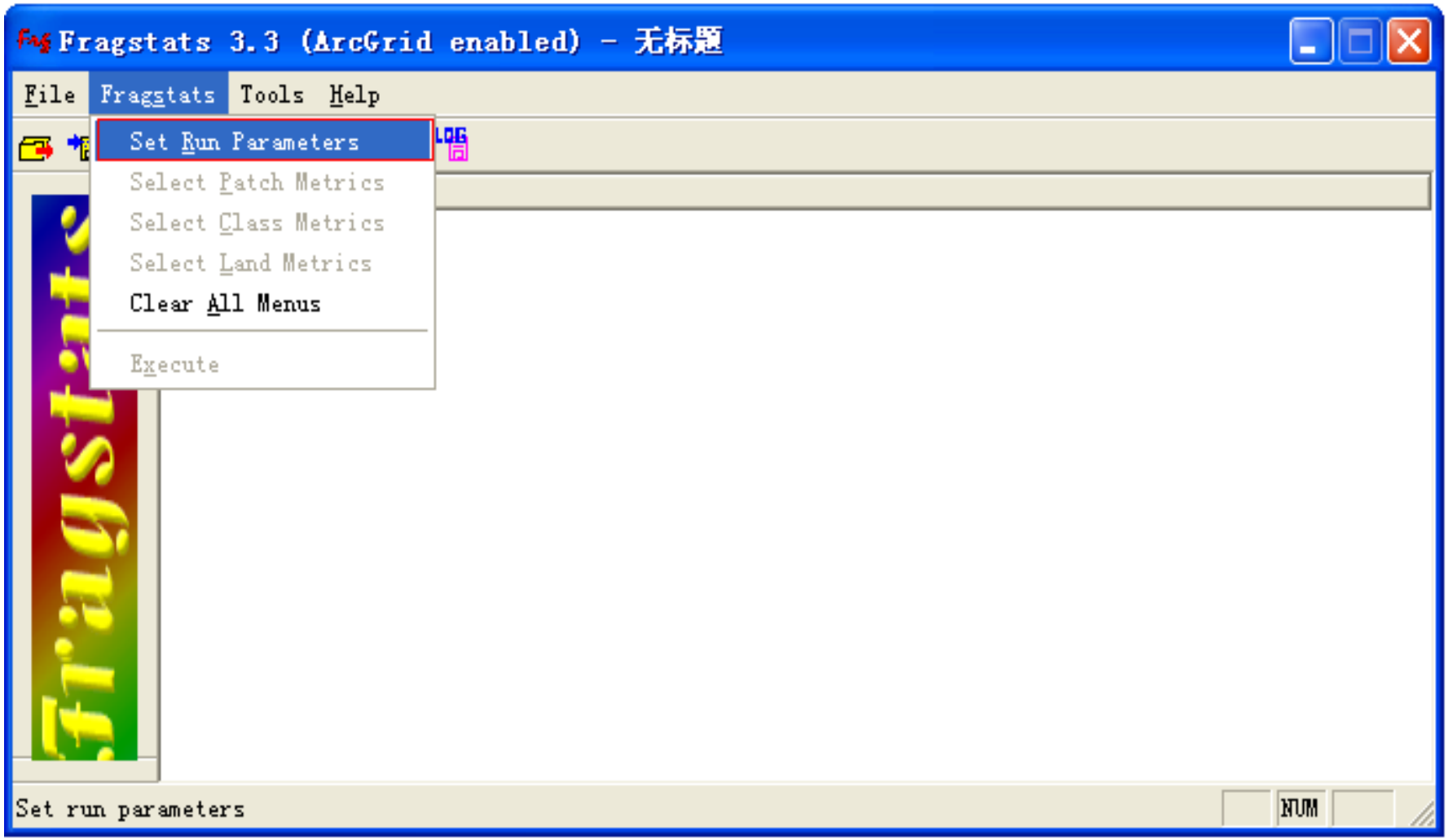
——以Fragstats 3.3 为例

进入界面

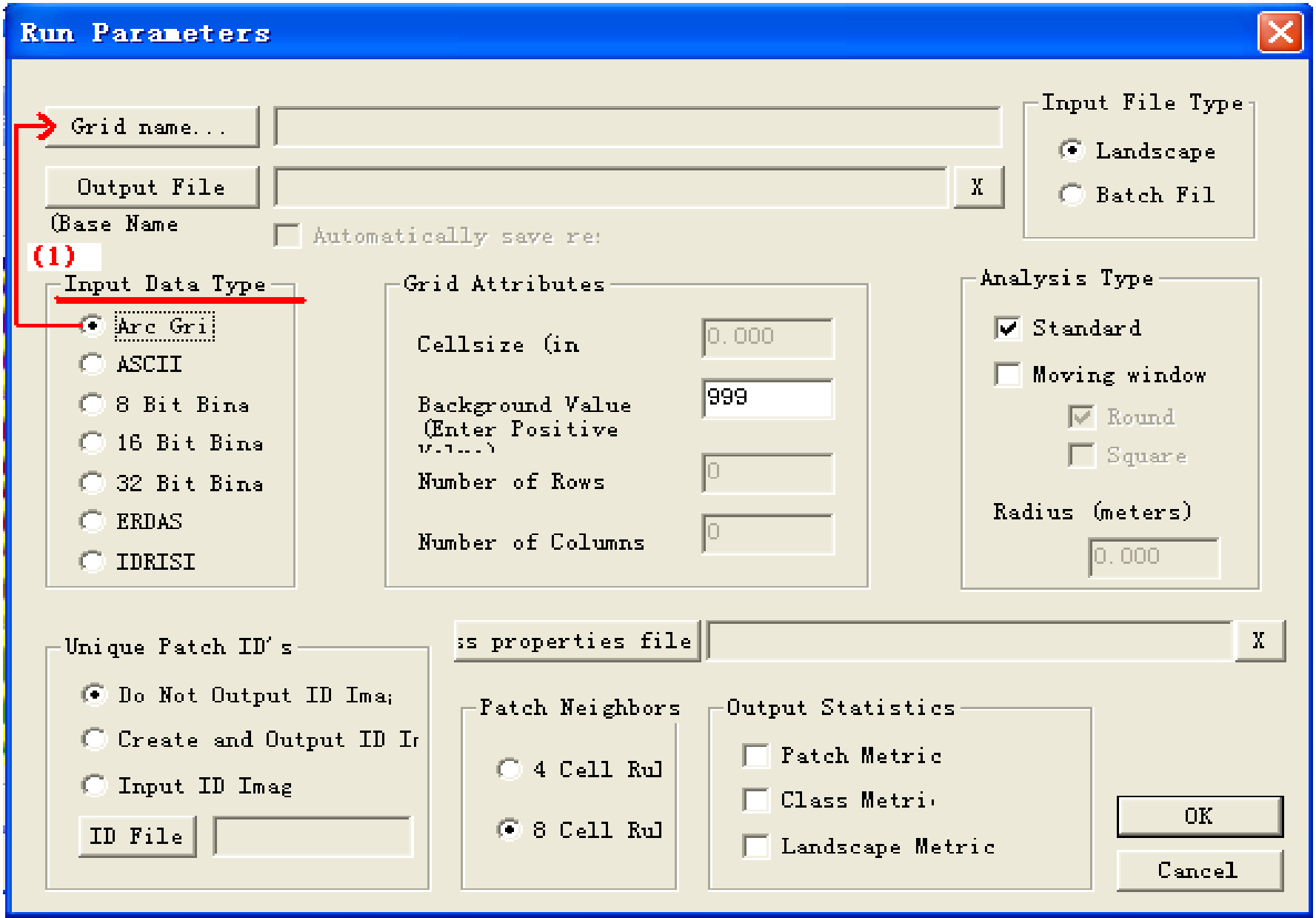

Fragstats 3.3 (ArcGrid enabled) - 无标题
File Fragstats Tools Help
LOG
Event log
Fragstats
Ready
NUM

操作步骤1：

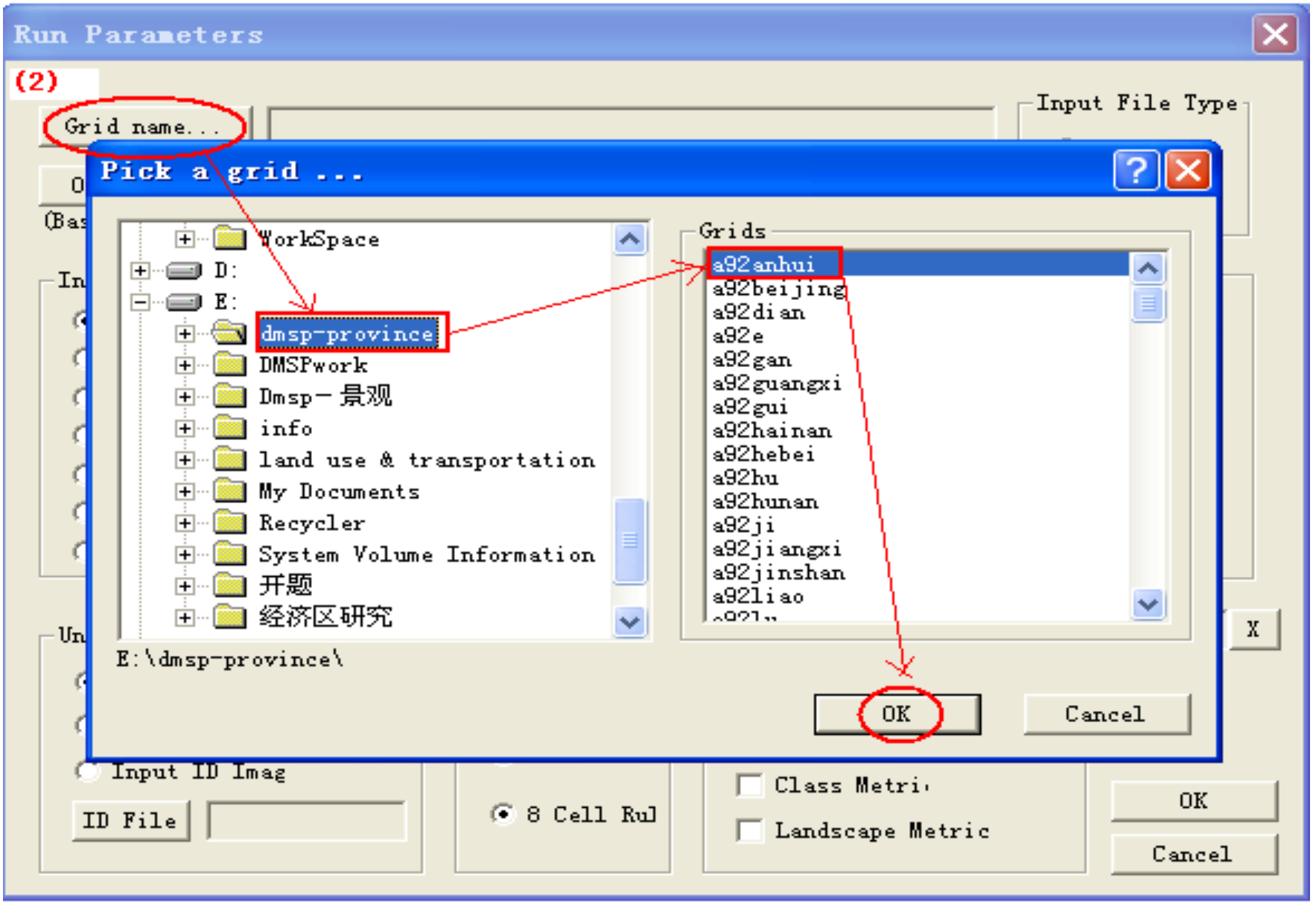
Fragstats → Set Run Parameters



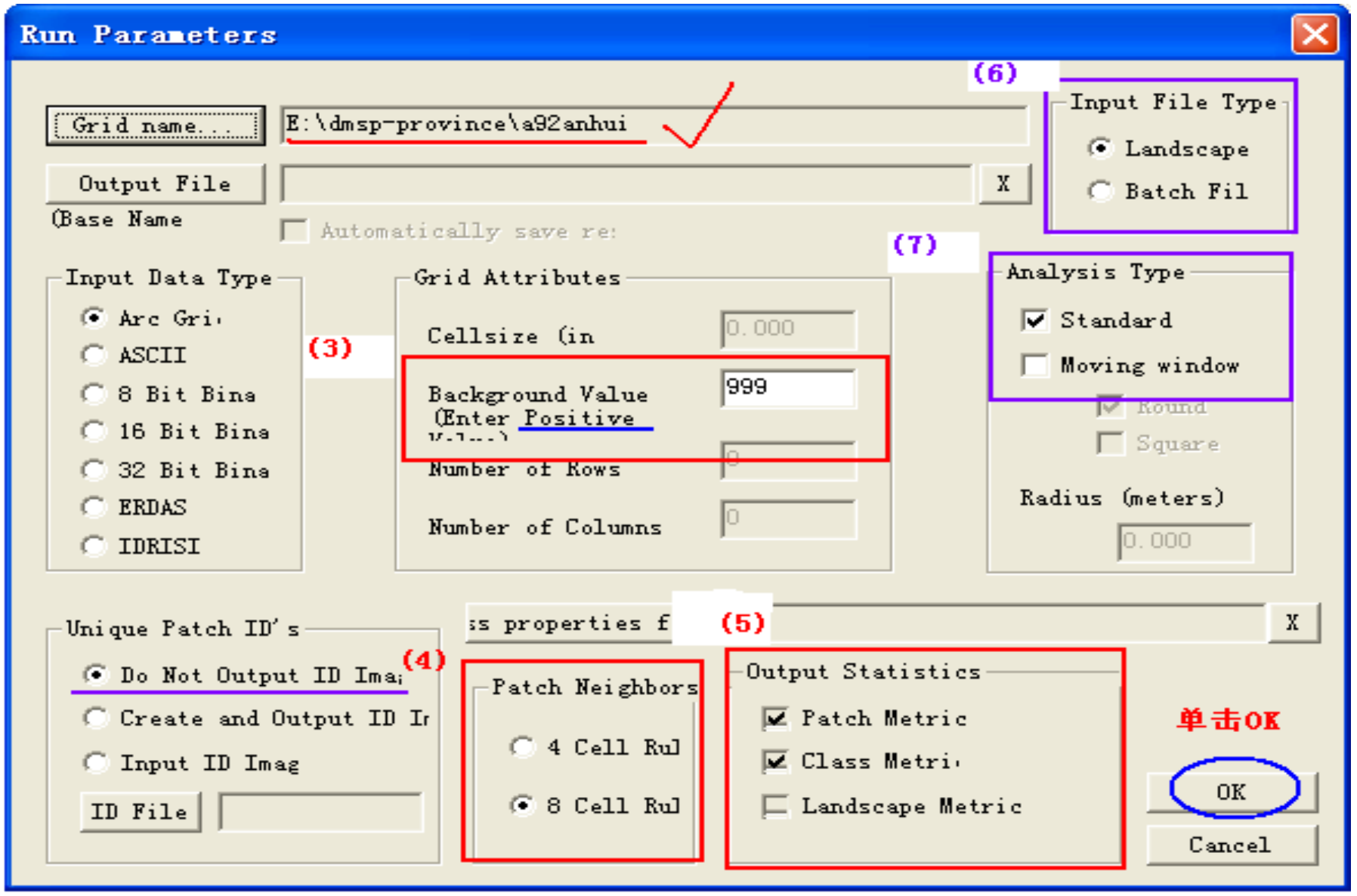
（1）选择输入文件的格式类型



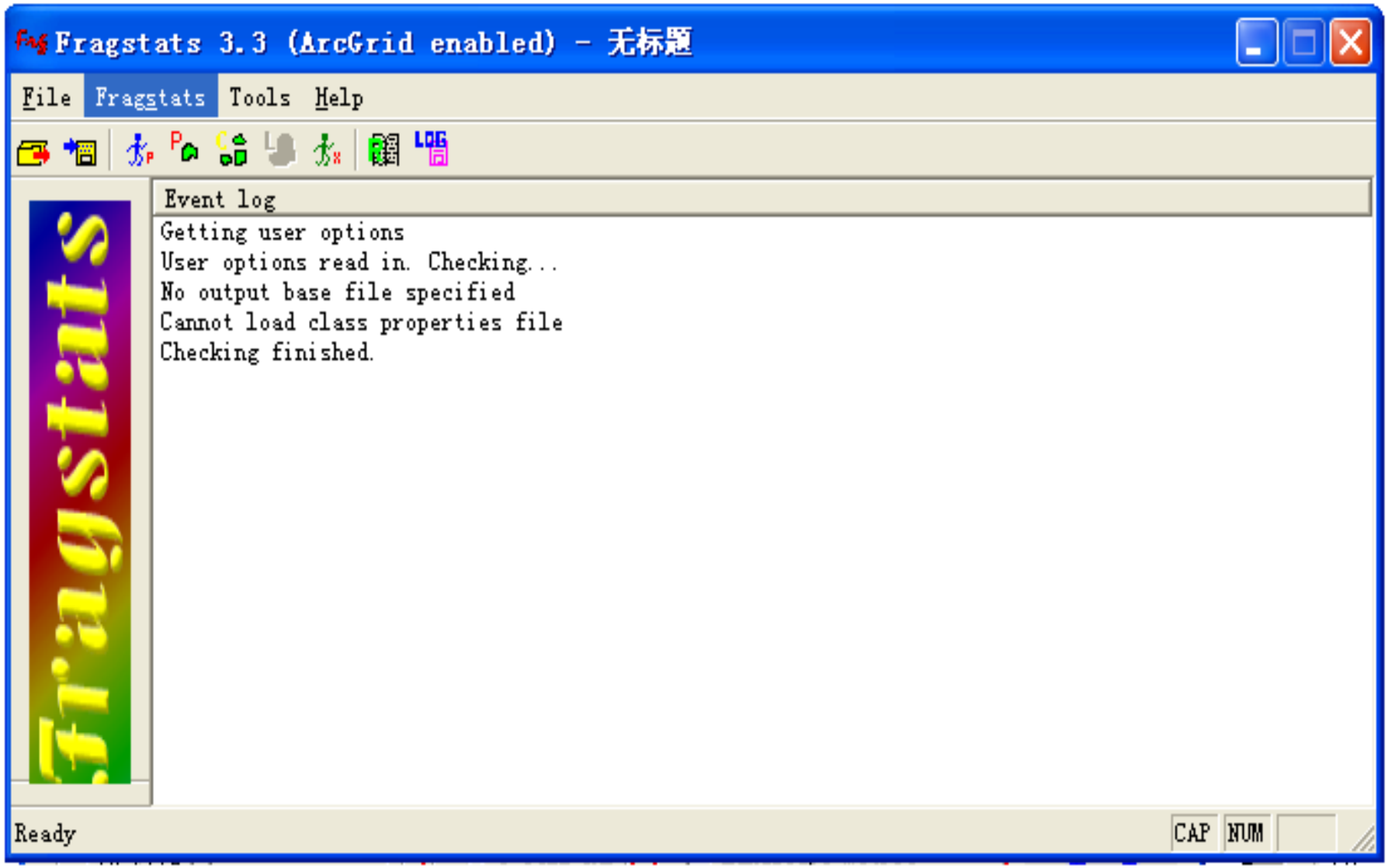
（2）打开需要分析的文件


Run Parameters
(2)
Grid name...
Input File Type
Pick a grid ...
WorkSpace
D:
E:
dmsp-province
DMSPwork
Dmsp－景观
info
land use & transportation
My Documents
Recycler
System Volume Information
开题
经济区研究
Grids
a92anhui
a92beijing
a92dian
a92e
a92gan
a92guangxi
a92gui
a92hainan
a92hebei
a92hu
a92hunan
a92ji
a92jiangxi
a92jinshan
a92liao
E:\dmsp-province\
OK
Cancel
Input ID Imag
ID File
8 Cell Rul
Class Metri
Landscape Metric
OK
Cancel

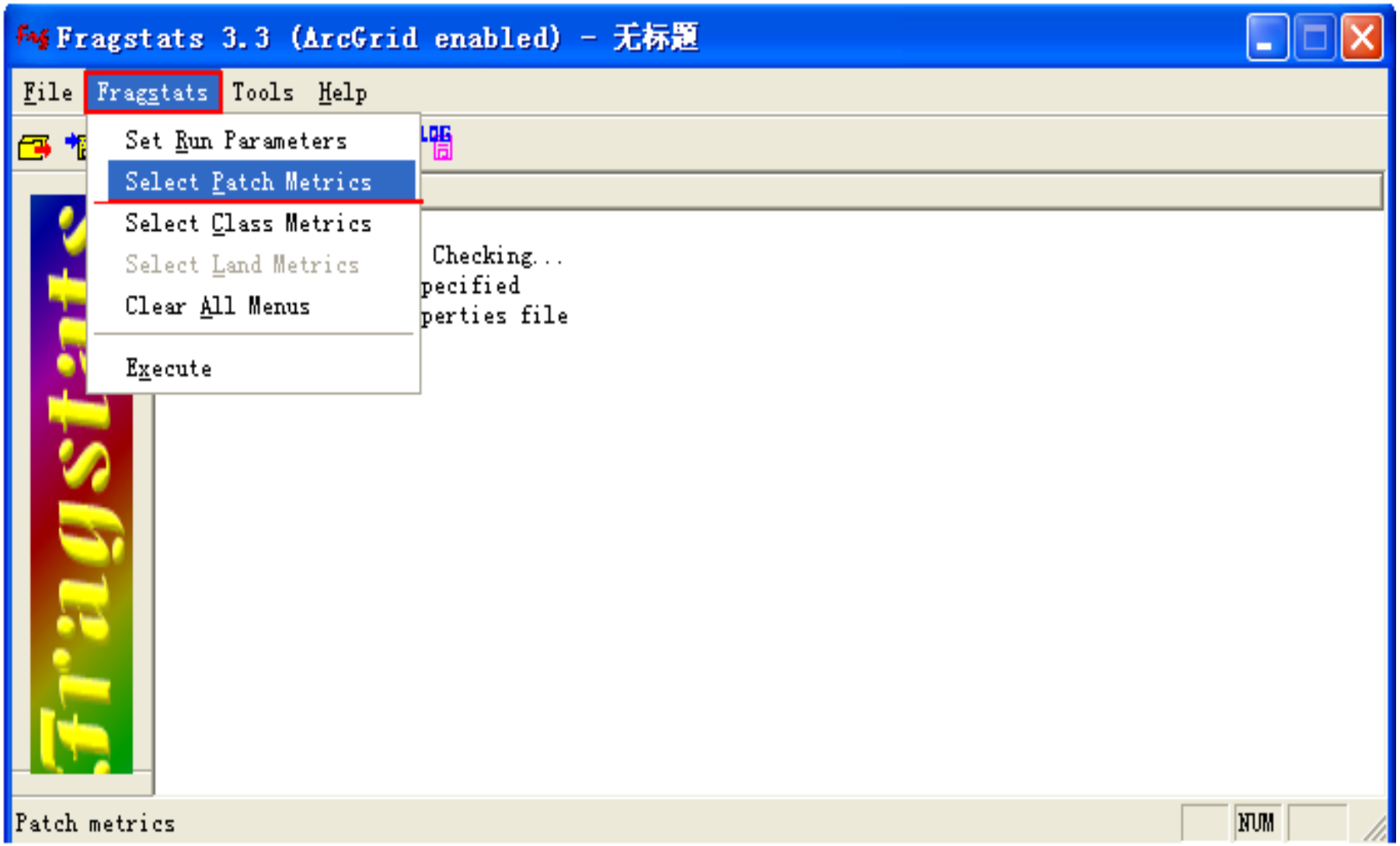
其他格式的设定


Run Parameters
Grid name...
E:\dmsp-province\a92anhui
Output File
(Base Name
Automatically save re:
(6)
Input File Type
Landscape
Batch Fil
(7)
Analysis Type
Standard
Moving window
Round
Square
Radius (meters)
0.000
Input Data Type
Arc Gri
ASCII
8 Bit Bina
16 Bit Bina
32 Bit Bina
ERDAS
IDRISI
(3)
Grid Attributes
Cellsize (in
0.000
Background Value
(Enter Positive
999
Number of Rows
Number of Columns
ss properties f
(5)
Unique Patch ID's
(4)
Do Not Output ID Ima
Create and Output ID Ir
Input ID Imag
ID File
Patch Neighbors
4 Cell Rul
8 Cell Rul
Output Statistics
Patch Metric
Class Metri
Landscape Metric
单击OK
OK
Cancel

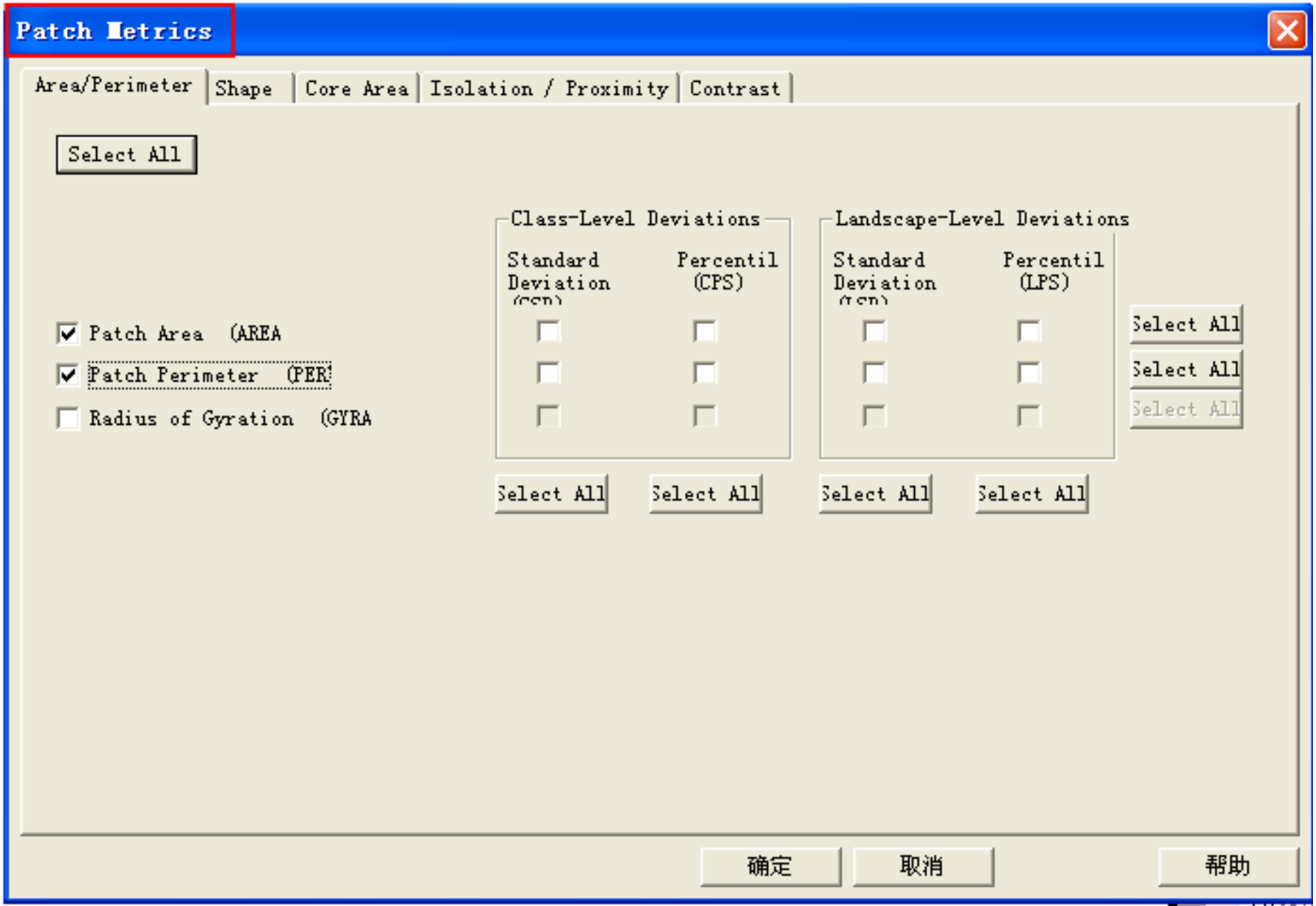
格式设定完成，单击OK后的界面



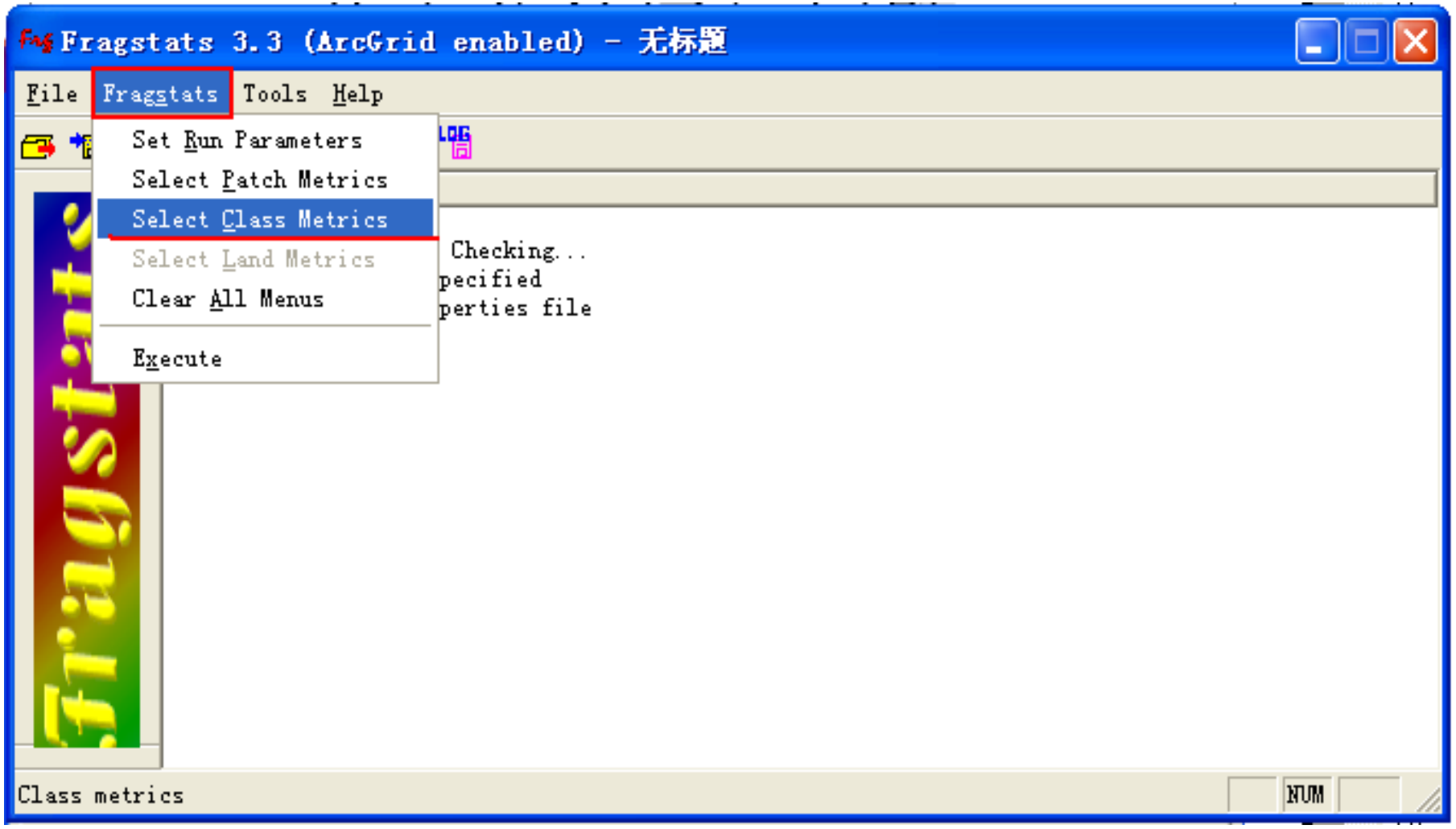
选择斑块水平上的参数操作过程 1



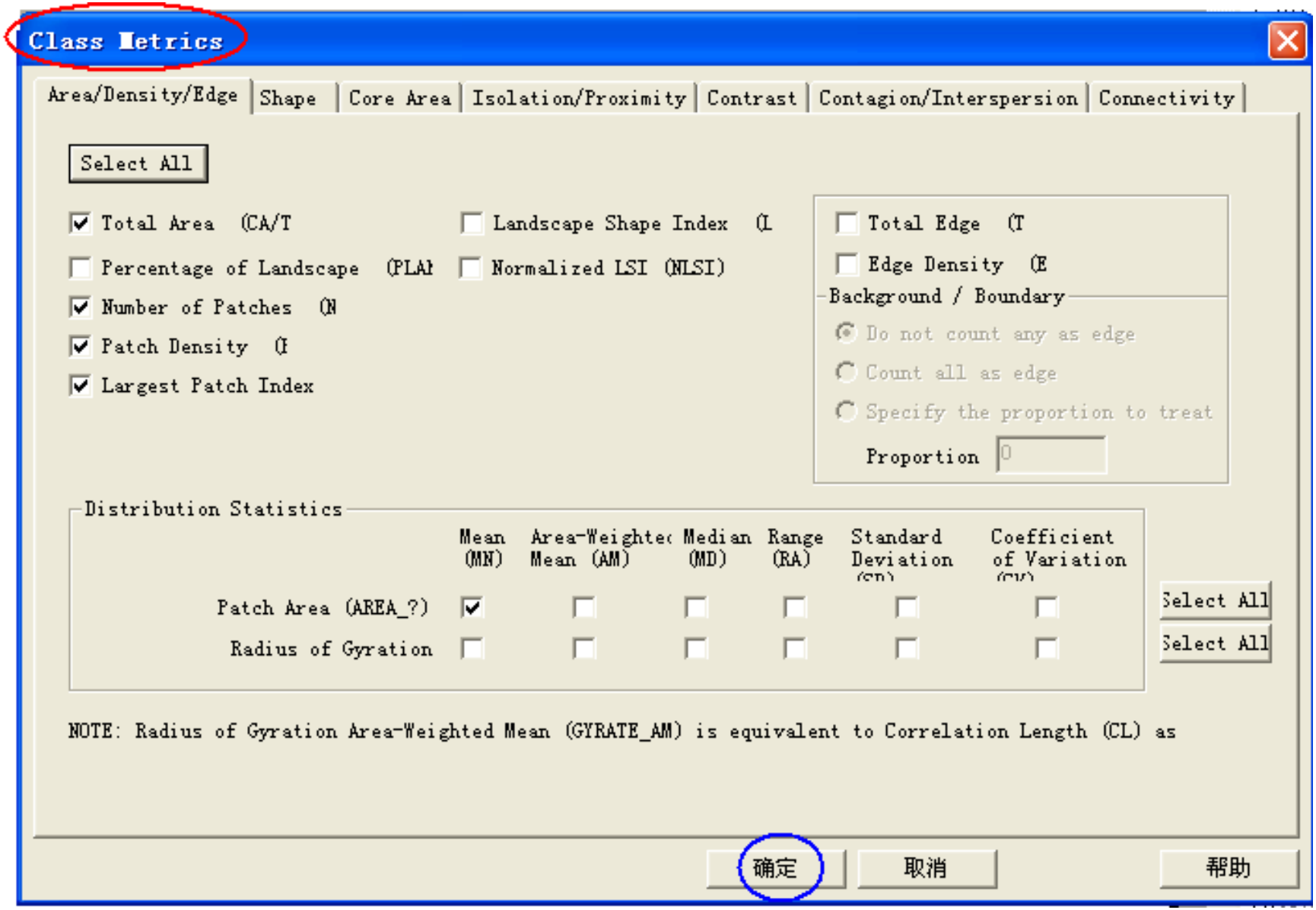
选择斑块水平上的参数操作过程 2



选择斑块类型水平上的参数操作过程 1



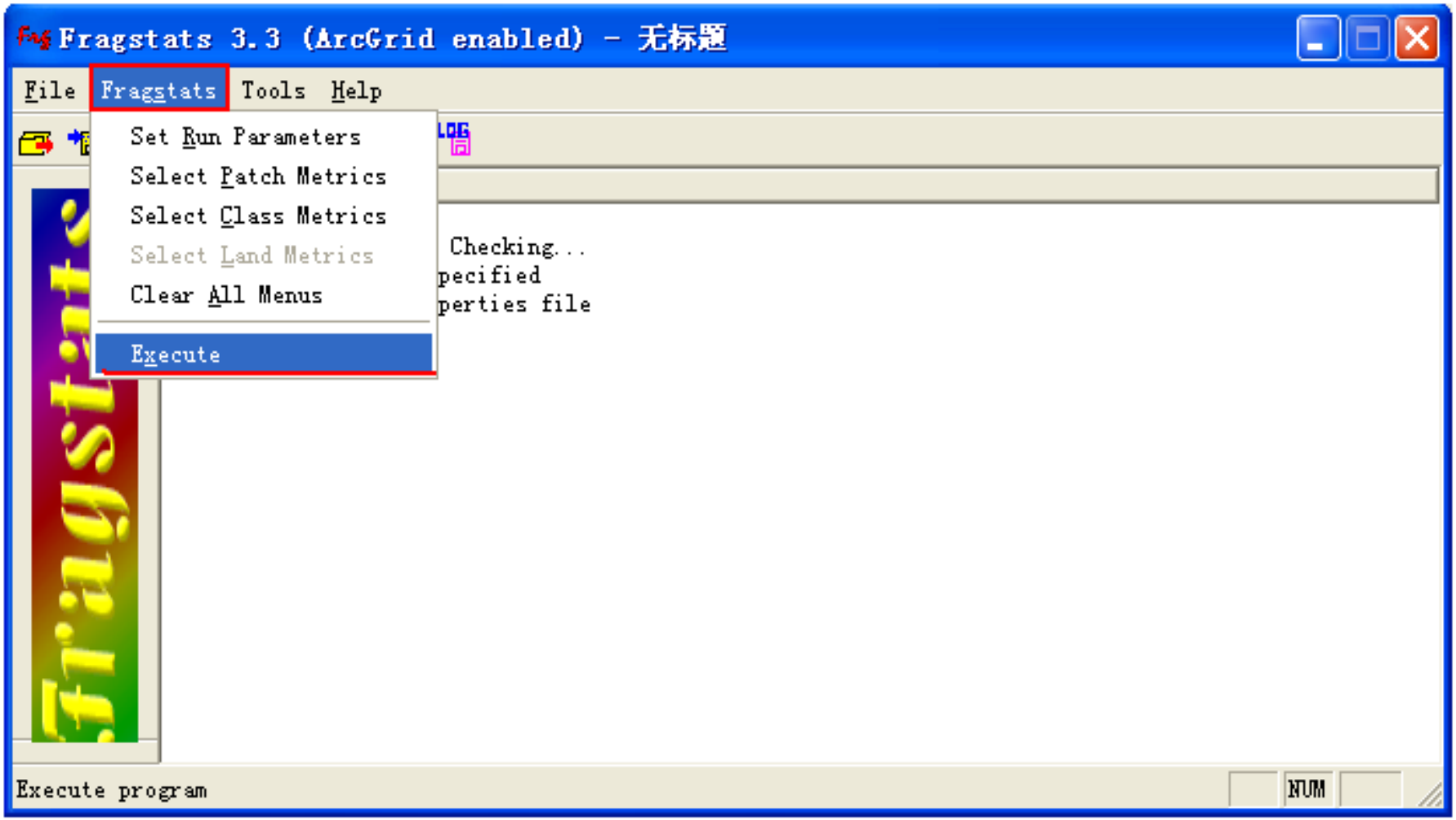
选择斑块类型水平上的参数操作过程 2



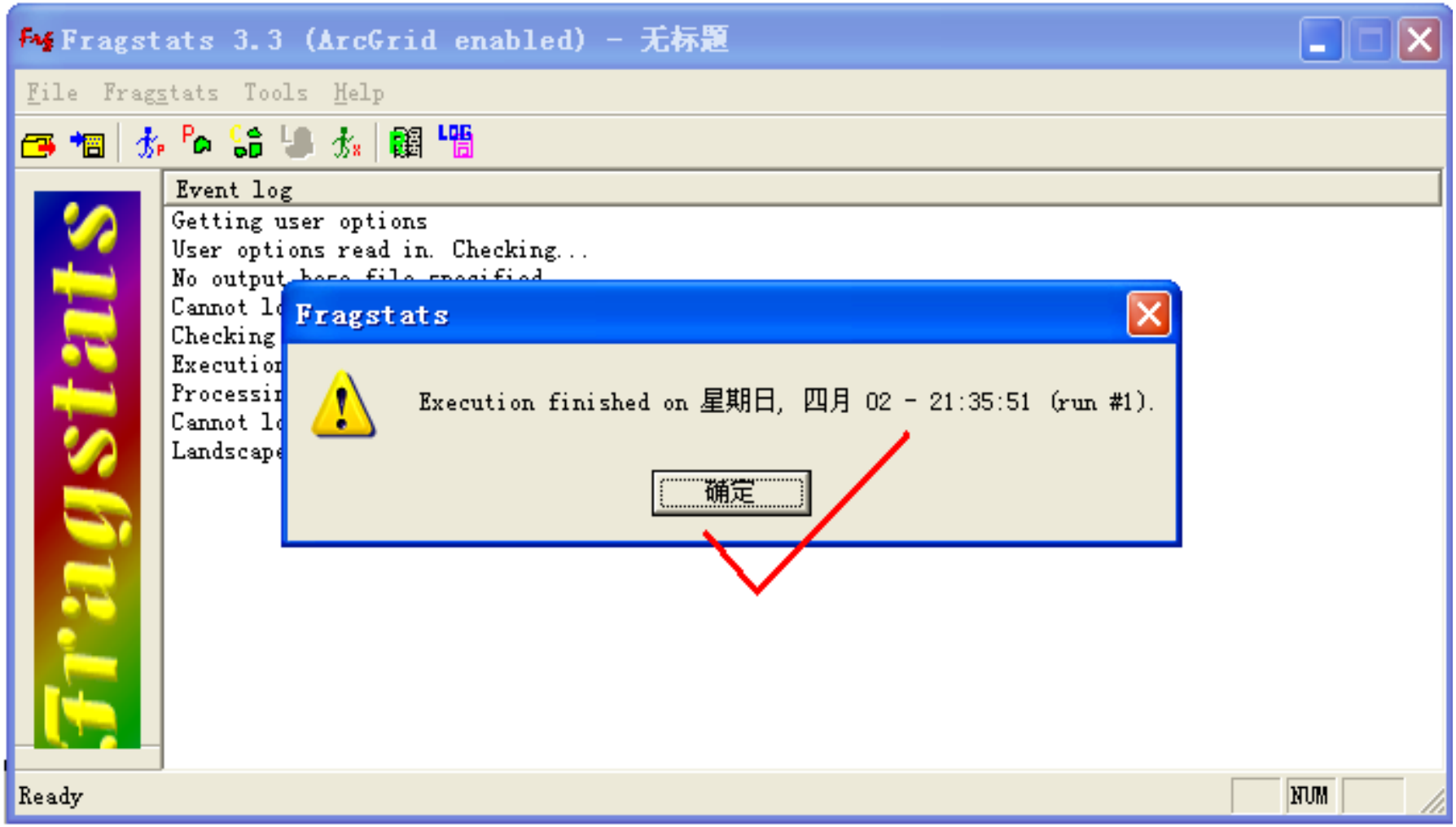
必选指标：

- 斑块数量、面积
- 斑块密度（PD）
- 最大斑块指数(LPI)
- 平均最临近距离（ENN_MN）
- 聚集度(AI)

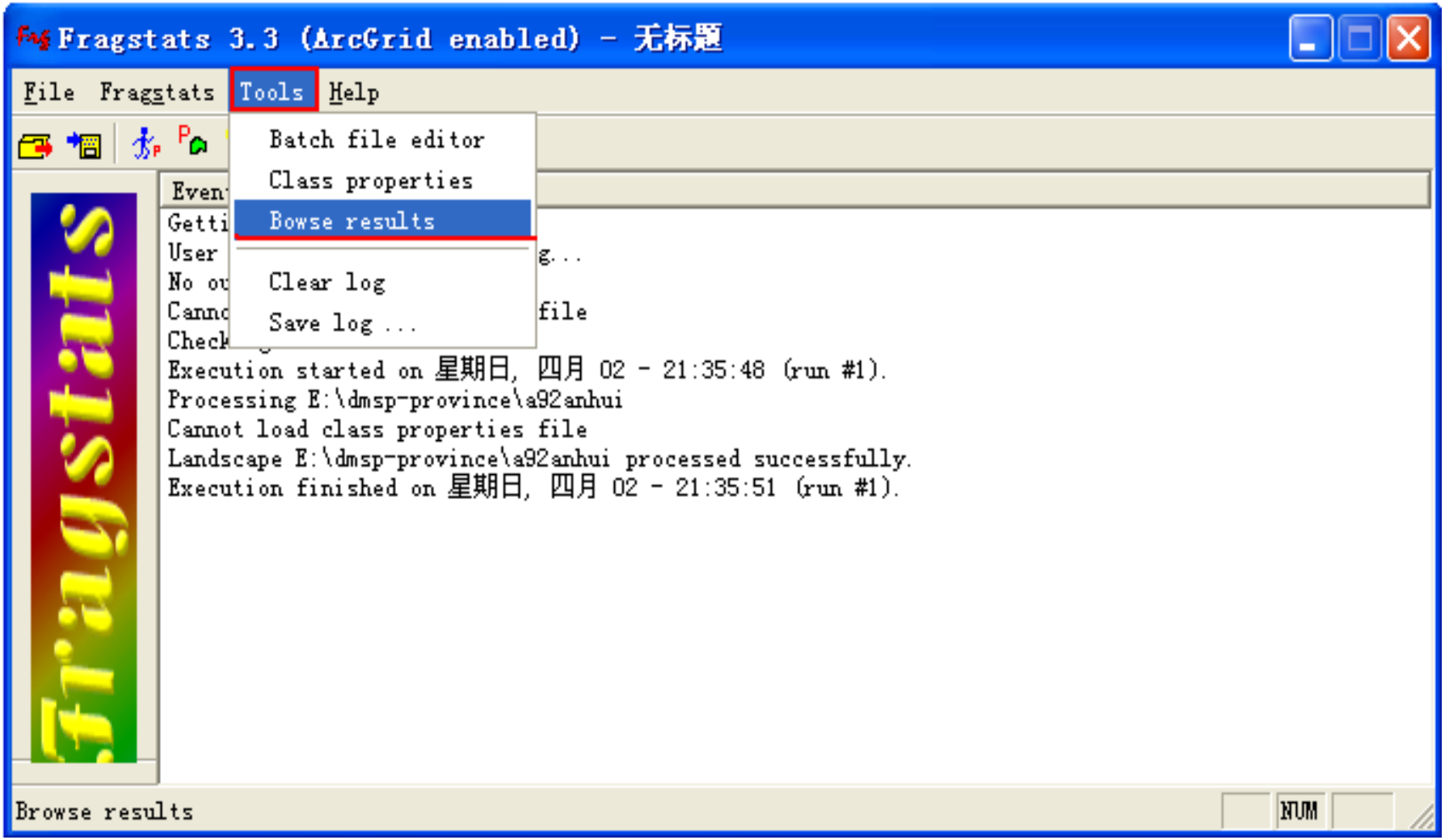
指数运算：Fragstats → Execute



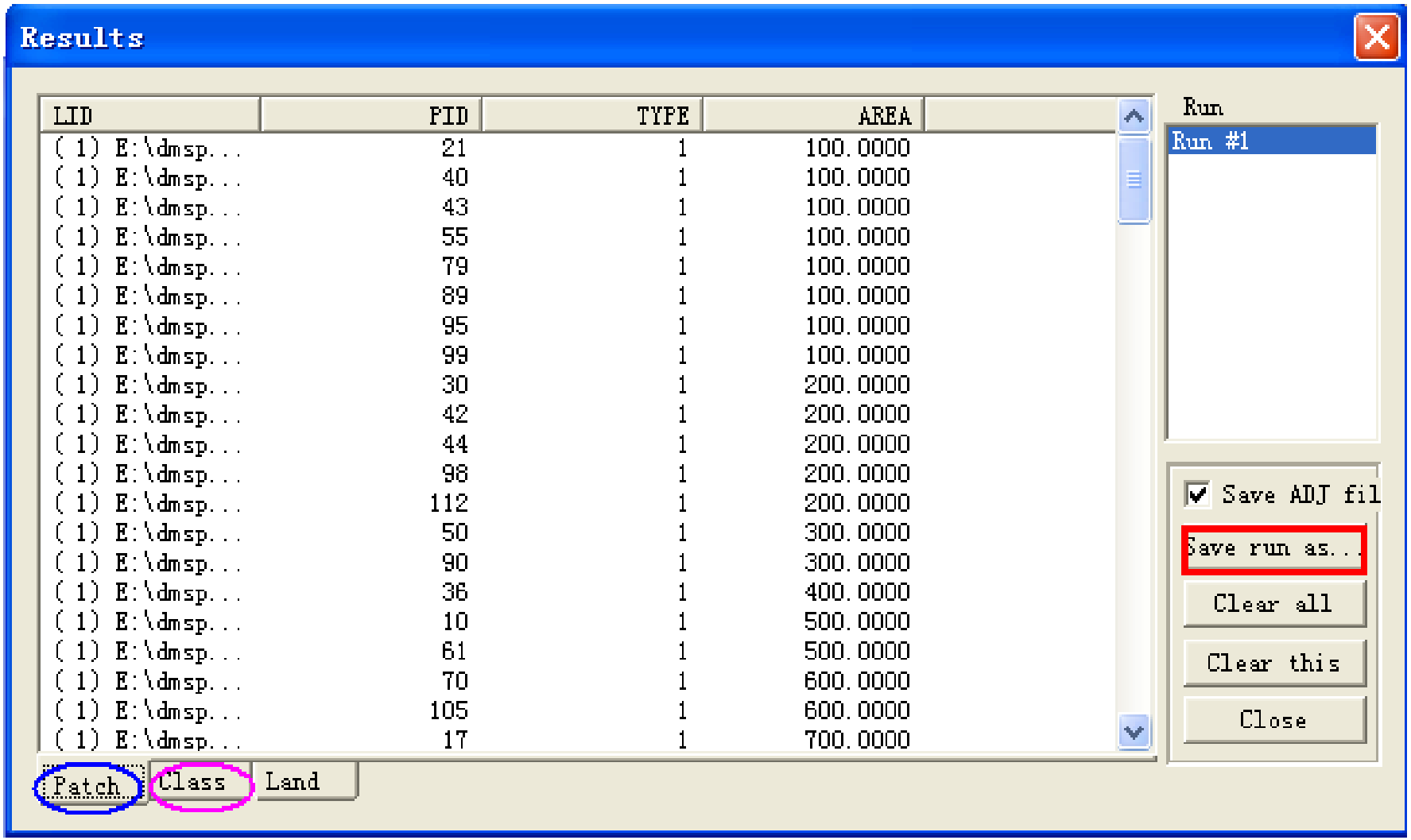
Execute之后出现的界面



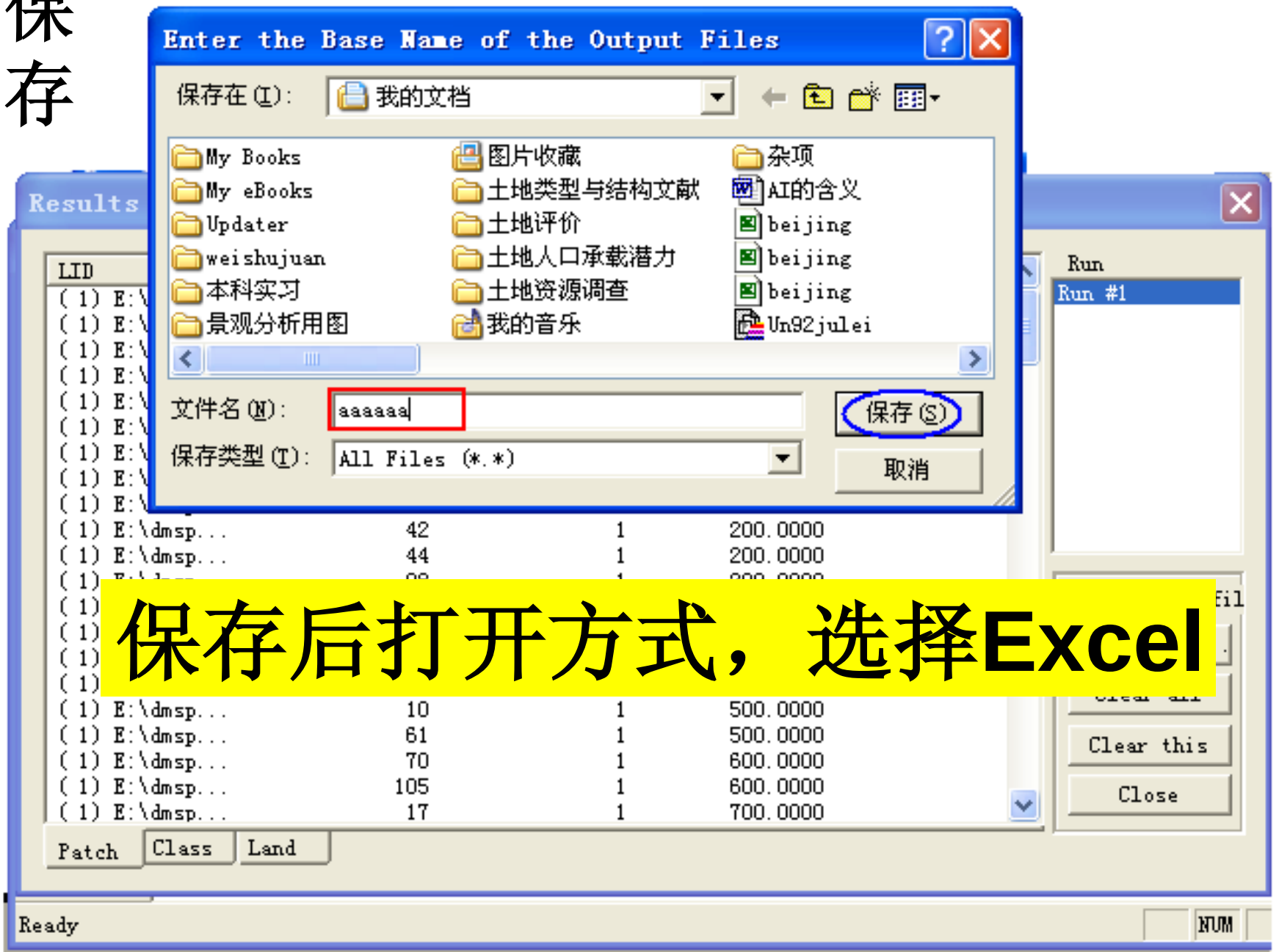
查看运算结果：Tools → Bowse results



查看及保存运算结果


Results
LID
PID
TYPE
AREA
(1) E:\dmsp...
21 1 100.0000
40 1 100.0000
43 1 100.0000
55 1 100.0000
79 1 100.0000
89 1 100.0000
95 1 100.0000
99 1 100.0000
30 1 200.0000
42 1 200.0000
44 1 200.0000
98 1 200.0000
112 1 200.0000
50 1 300.0000
90 1 300.0000
36 1 400.0000
10 1 500.0000
61 1 500.0000
70 1 600.0000
105 1 600.0000
17 1 700.0000
Patch
Class
Land
Run
Run #1
Save ADJ fil
Save run as...
Clear all
Clear this
Close

保存



保存后打开方式，选择Excel