## ANUSPLIN应用

### ClimateDay.m

: 将原始气候数据转换为常规单位值的程序，剔除异常值。

### ANUSPLIN流程

气温的插值：

气候数据，DEM

selnot < 20170401tmsel.cmd > 20170401tmsel.log

splinb < 20170401tm.cmd > 20170401tm.log

lapgrd < 20170401tmapnt.cmd> 20170401tmapnt.log

#### selnot

selnot: Selects an initial set of knots for use by SPLINB.

为SPLINB设置knots

20170401tmsel.cmd文件参数含义: (注意参数的行号(位置)和取值)

2 !Number of independent spline variables, lon, lat

1 !Number of indenpent coviariates

0 !Number of surface independent spline variables

0 !Number of surface independent covariates

70 140 0 5 !lon范围，transformation code(0:不变), units code(5:degree)

10 60 0 5 !lat范围，transformation code(0:不变), units code(5:degree)

-163 7228 1 1 !elev范围，transformation code(1:不变), units code(1: metres)

1 !Transformation parameters

0 !Dependent variable transformation

1 !Number of surfaces 插值的数据量，1期

0 !Number of relative error variances

20170401tm.dat !Data file name, 用于插值的站点数据

2420 !Maximum number of data points，站点数

7 !Number of characters in site name，站点名字符数

(a7,2f8.4,2f8.2) ! \*tm.dat中格式(50136id122.5167lon52.9667lat438.50dem 3.20tm)

20170401tmb.not !Output knot file

20170401tmb.rej !Rejected points file

2400 !Number of knots

单位编码：

0 - undefined

1 - metres 2 - feet

3 - kilometres 4 - miles

5 - degrees 6 - radians

7 - millimetres 8 – megajoules

Transformation编码：

0 - no transformation.

1 - fit surface to natural logarithm of the data

values.

2 - fit surface to the square root of the data

values.

5 – occurrence – transform data values by

setting all positive value to 1.0 and

ignoring all negative values.

Dependent variable transformation：

0 - no transformation

1 - natural logarithm

2 - square root

5 – occurrence

Transformation parameters：

Required for each independent variable for which the **transformation code** is **positive**.

取值：One or two real numbers，指a和b?

0 - no transformation

*1 - x/a*

*2 - ax*

*3 - alog (x +b)*

*4 - (x/b)*

*a*

*5 - a exp (x/b)*

*6 - a tanh (x/b)*

7 - anisotropy angle in degrees

8 - anisotropy factor

20170401tmsel.log(运行记录):

SELNOT VERSION 4.2 07/11/00

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INDEPENDENT VARIABLES

---------------------

NUMBER OF INDEPENDENT SPLINE VARIABLES (0 TO 10):

2

NUMBER OF INDEPENDENT COVARIATES (0 TO 8):

1

NUMBER OF SURFACE SPLINE VARIABLES (0 TO 7):

0

NUMBER OF SURFACE COVARIATES (0 TO 7):

0

TRANSFORMATION CODES REFERENCE UNIT CODES

-------------------- --------------------

0 - NO TRANSFORMATION 0 - UNDEFINED

1 - X/A 1 - METRES

2 - X\*A 2 - FEET

3 - A\*LOG(X + B) 3 - KILOMETRES

4 - (X/B)\*\*A 4 - MILES

5 - A\*EXP(X/B) 5 - DEGREES

6 - A\*TANH(X/B) 6 - RADIANS

7 - ANISOTROPY ANGLE 7 - MILLIMETRES

8 - ANISOTROPY FACTOR 8 - MEGAJOULES

LOWER & UPPER LIMITS, TRANSF CODE, REF UNIT, MARGIN(S) FOR VARIABLE 1:

70.0000 140.000 0 5

LOWER & UPPER LIMITS, TRANSF CODE, REF UNIT, MARGIN(S) FOR VARIABLE 2:

10.0000 60.0000 0 5

LOWER & UPPER LIMITS, TRANSF CODE, REF UNIT, MARGIN(S) FOR VARIABLE 3:

-163.000 7228.00 1 1

ENTER 1 TRANSFORMATION COEFFICIENT(S):

1.00000

SCALE EACH INDEPENDENT VARIABLE TO HAVE UNIT VARIANCE (0 - NO, 1 - YES):

0

NUMBER OF SURFACES (AT LEAST 1):

1

NUMBER OF RELATIVE VARIANCES (0 OR 1):

0

DATA FILE NAME:

tm20170401.dat

MAXIMUM NUMBER OF DATA POINTS:

2420

NO. OF CHARACTERS IN SITE LABEL (0 TO 20):

7

DATA FORMAT (LABEL, 3 INDEP VARS, 1 SURFACES, 0 REL VARIANCES):

(a7,2f8.4,2f8.2)

OUTPUT KNOT FILE:

20170401tmb.not

OUTPUT REJECTED POINTS FILE (BLANK IF NOT REQUIRED):

20170401tmb.rej

NUMBER OF DATA POINTS READ = 2419

NUMBER OF POINTS WITHIN LIMITS = 2419

NUMBER OF KNOTS (APPROX. 810 TO 1210):

2400

PROGRAM SELNOT VERSION 4.2 DATE 18/11/2017 TIME 19.42.16

#### 2. splinb

20170401tm.cmd:

20170401tm !Title of fitted surfaces

5 !Surface value units code

2 !Number of indepemdent spline variables

1 !Number of independent covariates

0 !Number of surface independent spline variables

0 !Number of surface independent covariates

72 136 0 5

16 54 0 5

-163 7228 1 1

1

0 !Dependent variable transformation

3 !Order of spline

1

0

1

1

20170401tm.dat

2420

7

(a7,2f8.4,2f8.2)

20170401tmb.not !Knot index file

2400 !Maximum number of knots

!Input bad data flag file 没有就留空行

!Output bad data flag file没有就留空行

20170401tm.res !Output large residual file name

20170401tm.opt !Output optimisation parameters file

20170401tm.sur !Output surface coefficients file

20170401tm.lis !Output data list file name

20170401tm.cov !Output error covariance file name

20170401tm.val ! VALIDATION DATA FILE NAME (BLANK IF NOT REQUIRED): 验证数据

2420

7

(a7,2f8.4,2f8.2)

tm20170401.out

20170401tm.log:

SPLINB VERSION 4.36 31/07/06

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TITLE OF FITTED SURFACES (60 CHARS):

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20170401tm

SURFACE VALUE UNITS CODE AND MISSING DATA VALUE:

-----------------------------------------------

0 - UNDEFINED

1 - METRES

2 - FEET

3 - KILOMETRES

4 - MILES

5 - DEGREES

6 - RADIANS

7 - MILLIMETRES

8 - MEGAJOULES

5

INDEPENDENT VARIABLES

---------------------

NUMBER OF INDEPENDENT SPLINE VARIABLES (0 TO 10):

2

NUMBER OF INDEPENDENT COVARIATES (0 TO 8):

1

NUMBER OF SURFACE SPLINE VARIABLES (0 TO 7):

0

NUMBER OF SURFACE COVARIATES (0 TO 7):

0

TRANSFORMATION CODES REFERENCE UNIT CODES

-------------------- --------------------

0 - NO TRANSFORMATION 0 - UNDEFINED

1 - X/A 1 - METRES

2 - X\*A 2 - FEET

3 - A\*LOG(X + B) 3 - KILOMETRES

4 - (X/B)\*\*A 4 - MILES

5 - A\*EXP(X/B) 5 - DEGREES

6 - A\*TANH(X/B) 6 - RADIANS

7 - ANISOTROPY ANGLE 7 - MILLIMETRES

8 - ANISOTROPY FACTOR 8 - MEGAJOULES

LOWER & UPPER LIMITS, TRANSF CODE, REF UNIT, MARGIN(S) FOR VARIABLE 1:

70.0000 140.000 0 5

LOWER & UPPER LIMITS, TRANSF CODE, REF UNIT, MARGIN(S) FOR VARIABLE 2:

10.0000 60.0000 0 5

LOWER & UPPER LIMITS, TRANSF CODE, REF UNIT, MARGIN(S) FOR VARIABLE 3:

-163.000 7228.00 1 1

ENTER 1 TRANSFORMATION COEFFICIENT(S):

1.00000

SURFACE DIRECTIVES

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DEPENDENT VARIABLE TRANSFORMATION:

0 - NO TRANSFORMATION

1 - NATURAL LOGARITHM

2 - SQUARE ROOT

5 - OCCURRENCE

0

ORDER OF SPLINE (AT LEAST 2):

3

NUMBER OF SURFACES (AT LEAST 1):

1

NUMBER OF RELATIVE VARIANCES (0 OR 1):

0

OPTIMIZATION DIRECTIVE (NORMALLY 1):

0 - COMMON SMOOTHING PARAMETER FOR ALL SURFACES

1 - COMMON SMOOTHING DIRECTIVE FOR ALL SURFACES

2 - DIFFERENT SMOOTHING DIRECTIVE FOR EACH SURFACE

1

SMOOTHING DIRECTIVE (NORMALLY 1):

0 - FIXED SMOOTHING PARAMETER FOR EACH SURFACE

1 - MINIMIZE GCV FOR EACH SURFACE

2 - MINIMIZE TRUE MEAN SQUARE ERROR FOR EACH SURFACE

3 - FIXED SIGNAL FOR EACH SURFACE

4 - MINIMIZE GML FOR EACH SURFACE

1

DATA FILE NAME:

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20170401tm.dat

MAXIMUM NUMBER OF DATA POINTS (AT LEAST 7):

2420

NO. OF CHARACTERS IN SITE LABEL (0 TO 20):

7

DATA FORMAT (SITE LABEL, 3 INDEP VARS, 1 SURFACES, 0 REL VARIANCES):

(a7,2f8.4,2f8.2)

KNOT INDEX FILE NAME:

20170401tmb.not

MAXIMUM NUMBER OF DATA KNOTS (AT LEAST 1):

2400

INPUT BAD DATA FLAG FILE NAME (BLANK IF NOT REQUIRED):

OUTPUT BAD DATA FLAG FILE NAME (BLANK IF NOT REQUIRED):

OUTPUT LARGE RESIDUAL FILE NAME (BLANK IF NOT REQUIRED):

20170401tm.res

OUTPUT OPTIMIZATION PARAMETERS FILE NAME (BLANK IF NOT REQUIRED):

20170401tm.opt

OUTPUT SURFACE COEFFICIENTS FILE NAME (BLANK IF NOT REQUIRED):

20170401tm.sur

OUTPUT DATA LIST FILE NAME (BLANK IF NOT REQUIRED):

20170401tm.lis

OUTPUT ERROR COVARIANCE FILE NAME (BLANK IF NOT REQUIRED):

20170401tm.cov

VALIDATION DATA FILE NAME (BLANK IF NOT REQUIRED):

-------------------------------------------------

20170401tm.val

MAXIMUM NUMBER OF VALIDATION DATA POINTS:

2420

NO. OF CHARACTERS IN SITE LABEL (0 TO 20):

7

DATA FORMAT (LABEL, 3 INDEP VARS, 1 SURFACES):

(a7,2f8.4,2f8.2)

OUTPUT DATA LIST FILE NAME (BLANK IF NOT REQUIRED):

tm20170401.out

DATA SUMMARY

------------

NUMBER OF DATA POINTS READ = 2419

NUMBER OF POINTS WITHIN LIMITS = 2419

MIN NUMBER OF POINTS WITH DATA = 2419

SURF MEAN RELATIVE VARIANCE ROOT MEAN REL VAR

1 1.00 1.00

NUMBER OF KNOTS = 2400

SURFACE STATISTICS

------------------

SURF RHO NPTS ERROR SIGNAL SURF MEAN STD DEV

1 0.269E-02 2419 1721.8 697.2 1 11.527 4.575

SURF GCV MSR VAR SURF RTGCV RTMSR RTVAR

1 0.723 0.366 0.514 1 0.850 0.605 0.717

SURF GML MSE VAR SURF RTGML RTMSE RTVAR

1 1.20 0.148 0.449 1 1.09 0.385 0.670

SURF COVARIATES AND STANDARD ERRORS

1 -0.628E-02 0.927E-04

VALIDATION DATA SUMMARY

-----------------------

NUMBER OF DATA POINTS READ = 2419

NUMBER OF POINTS WITHIN LIMITS = 2419

VALIDATION STATISTICS

---------------------

SURF NPTS ME MAE RMS MAX SITE

1 2419 0.204E-07 0.455 0.605 -2.72 53577

RANKED ROOT MEAN SQUARE RESIDUALS

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1 -371 53577 2.72

2 -1360 57074 2.35

3 -543 53923 2.35

4 -503 53865 2.34

5 -502 53864 2.31

6 -469 53786 2.20

7 -1351 57060 2.18

8 -1370 57084 2.17

9 -709 54331 2.13

10 -271 52884 2.10

11 -577 53966 2.09

12 -559 53945 2.07

13 -569 53957 1.98

14 -413 53681 1.97

15 -1687 57742 1.95

16 -565 53953 1.91

17 -510 53874 1.86

18 -692 54304 1.85

19 -489 53845 1.85

20 -1140 56441 1.84

21 -474 53791 1.83

22 -1203 56688 1.82

23 -925 54818 1.81

24 -507 53871 1.81

25 -647 54172 1.77

26 -286 52981 1.76

27 -581 53972 1.74

28 -553 53935 1.74

29 -1341 57047 1.73

30 -1346 57053 1.73

31 -1838 58005 1.72

32 -1582 57511 1.72

33 -512 53877 1.71

34 -590 53982 1.71

35 -65 50858 1.70

36 -666 54237 1.68

37 -534 53903 1.68

38 -341 53486 1.67

39 -1972 58346 1.67

40 -664 54234 1.67

41 -551 53931 1.65

42 -403 53665 1.65

43 -308 53337 1.63

44 -451 53767 1.63

45 -562 53948 1.62

46 -832 54611 1.62

47 -777 54499 1.62

48 -717 54339 1.61

49 -325 53433 1.61

50 -715 54337 1.60

51 -936 54829 1.60

52 -741 54410 1.59

53 -740 54408 1.57

54 -410 53678 1.57

55 -1811 57962 1.55

56 -382 53596 1.55

57 -544 53924 1.54

58 -874 54715 1.54

59 -437 53735 1.54

60 -1329 57034 1.53

61 -929 54822 1.52

62 -591 53983 1.50

63 -1619 57596 1.49

64 -2205 58931 1.49

65 -560 53946 1.48

66 -1966 58340 1.48

67 -1044 56096 1.47

68 -170 51573 1.46

69 -1336 57042 1.45

70 -1375 57089 1.45

71 -592 53984 1.45

72 -417 53688 1.44

73 -1317 57022 1.43

74 -705 54326 1.43

75 -471 53788 1.43

76 -1325 57030 1.42

77 -738 54405 1.42

78 -963 54903 1.41

79 -398 53659 1.40

80 -1340 57046 1.40

81 -718 54340 1.39

82 -659 54218 1.39

83 -1427 57190 1.38

84 -747 54423 1.37

85 -737 54404 1.37

86 -873 54714 1.37

87 -273 52889 1.36

88 -900 54759 1.36

89 -458 53774 1.35

90 -1917 58224 1.34

91 -2234 59044 1.34

92 -742 54412 1.34

93 -1339 57045 1.34

94 -1740 57829 1.34

95 -160 51477 1.34

96 -2080 58560 1.33

97 -1414 57177 1.33

98 -1148 56475 1.33

99 -1575 57503 1.32

100 -1595 57541 1.32

RANKED ROOT MEAN SQUARE RESIDUALS FOR SURFACE 1

1 -371 53577 -2.72 \* 7.8 5.1

2 -1360 57074 2.35 10.3 12.7

3 -543 53923 -2.35 9.4 7.0

4 -503 53865 -2.34 10.9 8.6

5 -502 53864 2.31 5.3 7.6

6 -469 53786 2.20 3.9 6.1

7 -1351 57060 2.18 9.1 11.3

8 -1370 57084 -2.17 8.9 6.7

9 -709 54331 -2.13 10.6 8.5

10 -271 52884 2.10 6.1 8.2

11 -577 53966 -2.09 11.2 9.1

12 -559 53945 -2.07 9.0 6.9

13 -569 53957 -1.98 14.7 12.7

14 -413 53681 1.97 5.3 7.3

15 -1687 57742 -1.95 13.1 11.2

16 -565 53953 -1.91 8.8 6.9

17 -510 53874 1.86 8.3 10.2

18 -692 54304 1.85 3.6 5.5

19 -489 53845 -1.85 7.4 5.6

20 -1140 56441 -1.84 13.7 11.9

21 -474 53791 1.83 13.7 15.5

22 -1203 56688 -1.82 17.8 16.0

23 -925 54818 -1.81 13.9 12.1

24 -507 53871 -1.81 8.7 6.9

25 -647 54172 -1.77 5.1 3.3

26 -286 52981 -1.76 6.6 4.8

27 -581 53972 1.74 11.3 13.0

28 -553 53935 -1.74 8.7 7.0

29 -1341 57047 1.73 10.3 12.0

30 -1346 57053 1.73 9.7 11.4

31 -1838 58005 1.72 9.5 11.2

32 -1582 57511 1.72 17.9 19.6

33 -512 53877 1.71 6.4 8.1

34 -590 53982 -1.71 14.8 13.1

35 -65 50858 1.70 0.8 2.5

36 -666 54237 1.68 5.9 7.6

37 -534 53903 1.68 3.8 5.5

38 -341 53486 -1.67 10.1 8.4

39 -1972 58346 1.67 10.0 11.7

40 -664 54234 -1.67 8.2 6.5

41 -551 53931 1.65 5.9 7.6

42 -403 53665 1.65 3.5 5.1

43 -308 53337 1.63 5.2 6.8

44 -451 53767 1.63 4.8 6.4

45 -562 53948 -1.62 14.1 12.5

46 -832 54611 -1.62 17.3 15.7

47 -777 54499 -1.62 15.9 14.3

48 -717 54339 -1.61 10.1 8.5

49 -325 53433 -1.61 8.9 7.3

50 -715 54337 -1.60 10.1 8.5

51 -936 54829 1.60 10.7 12.3

52 -741 54410 -1.59 7.9 6.3

53 -740 54408 -1.57 13.4 11.8

54 -410 53678 1.57 7.5 9.1

55 -1811 57962 1.55 12.9 14.4

56 -382 53596 -1.55 17.2 15.7

57 -544 53924 1.54 7.5 9.0

58 -874 54715 1.54 11.6 13.1

59 -437 53735 -1.54 6.9 5.4

60 -1329 57034 1.53 11.1 12.6

61 -929 54822 -1.52 14.1 12.6

62 -591 53983 1.50 10.9 12.4

63 -1619 57596 -1.49 11.2 9.7

64 -2205 58931 1.49 4.6 6.1

65 -560 53946 1.48 6.4 7.9

66 -1966 58340 1.48 10.8 12.3

67 -1044 56096 -1.47 16.7 15.2

68 -170 51573 -1.46 21.1 19.6

69 -1336 57042 1.45 11.1 12.5

70 -1375 57089 1.45 10.1 11.5

71 -592 53984 1.45 11.7 13.1

72 -417 53688 1.44 14.1 15.5

73 -1317 57022 1.43 7.1 8.5

74 -705 54326 -1.43 5.9 4.5

75 -471 53788 1.43 4.8 6.2

76 -1325 57030 -1.42 10.6 9.2

77 -738 54405 -1.42 12.7 11.3

78 -963 54903 1.41 11.2 12.6

79 -398 53659 -1.40 7.6 6.2

80 -1340 57046 -1.40 4.1 2.7

81 -718 54340 -1.39 9.2 7.8

82 -659 54218 -1.39 5.6 4.2

83 -1427 57190 1.38 9.5 10.9

84 -747 54423 -1.37 9.4 8.0

85 -737 54404 1.37 6.2 7.6

86 -873 54714 -1.37 15.0 13.6

87 -273 52889 -1.36 11.0 9.6

88 -900 54759 -1.36 9.4 8.0

89 -458 53774 -1.35 12.0 10.7

90 -1917 58224 -1.34 12.7 11.4

91 -2234 59044 1.34 14.8 16.1

92 -742 54412 1.34 9.4 10.7

93 -1339 57045 -1.34 12.8 11.5

94 -1740 57829 -1.34 13.6 12.3

95 -160 51477 1.34 7.4 8.7

96 -2080 58560 1.33 10.0 11.3

97 -1414 57177 -1.33 12.4 11.1

98 -1148 56475 1.33 10.8 12.1

99 -1575 57503 1.32 17.7 19.0

100 -1595 57541 1.32 13.5 14.8

PROGRAM SPLINB VERSION 4.36 DATE 18/11/2017 TIME 22.24.12

#### 3. lapgrd

20170401tmapnt.cmd:

20170401tm.sur !Surface file

1 !Surface numbers

1 !Type of surface calculation 0 - summary statistics only. 1 - calculate surface values.

20170401tm.cov !Error covariance file name

2 !Type of error calculation

!Maximum standard errors 空行

1 !Grid position option

1 !Index of first grid variable

70 140 0.0625 !Limits and spacing of first variable

2 !Index of second grid variable

10 60 0.0625 !Limits and spacing of second grid variables

0 !Mode of mask grid

2 !Mode of 3rd independent variable: 2 - Arc/Info mask grid.

chinadem0.0625.dem !Name of mask grid，用DEM做mask

2 !Mode of output surface value grids

-9999.0 !Special value of output grid

20170401tmgrid.grd !Output grid file name

(1200f10.2)  !Output grid format

2 !Mode of output error grids

-9999.0 !Special value of output grid

20170401tmcovb.grd

(1200f10.2)

Type of error calculation：

0 - calculate standard error of the average

surface value only.

1 - calculate model standard errors.

2 - calculate prediction standard errors.

3 - calculate 95% model confidence

intervals.

4 - calculate 95% prediction confidence

intervals.

Mode of mask grid：

0 - mask grid not supplied.

1 - generic mask grid.

2 - Arc/Info mask grid.

3 - Idrisi mask grid.

20170401tmapnt.log:

LAPGRD VERSION 4.36 17/07/06

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SURFACE FILE NAME:

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20170401tm.sur

SURFACE TITLE = 20170401tm

SURFACE UNITS = deg

NUMBER OF SURFACES = 1

ORDER OF DERIVATIVE = 3

NUMBER OF KNOTS = 2400

NUMBER OF SPLINE INDEPENDENT VARIABLES = 2

NUMBER OF INDEPENDENT COVARIATES = 1

VAR LOWER LIMIT UPPER LIMIT TRANSF UNITS MARGINS

1 70.0000 140.000 0 deg 0.000 0.000

2 10.0000 60.0000 0 deg 0.000 0.000

3 -163.000 7228.00 1 m 0.000 0.000

TRANSFORMATION CONSTANT = 1.00000

SURFACE NUMBERS (0 T0 1):

1

TYPE OF SURFACE CALCULATION (0-1):

0 - SUMMARY STATISTICS ONLY

1 - ALL SURFACE VALUES

1

ERROR COVARIANCE FILE (BLANK IF NO ERRORS REQUIRED):

---------------------------------------------------

20170401tm.cov

TYPE OF ERROR CALCULATION (0-4):

0 - STANDARD ERROR OF AVERAGE ONLY

1 - MODEL STANDARD ERRORS

2 - PREDICTION STANDARD ERRORS

3 - 95% MODEL CONFIDENCE INTERVALS

4 - 95% PREDICTION CONFIDENCE INTERVALS

2

MAXIMUM STANDARD ERROR (BLANK OR 1 STANDARD ERROR):

GRID SPECIFICATIONS

-------------------

POSITION OPTION (0 - AT CELL CORNERS, 1 - AT CELL CENTRES):

1

INDEX OF FIRST GRID VARIABLE (NORMALLY 1):

1

LOWER LIMIT, UPPER LIMIT AND SPACING OF FIRST GRID VARIABLE:

70.000000000000 140.00000000000 0.6250000E-01

INDEX OF SECOND GRID VARIABLE (NORMALLY 2):

2

LOWER LIMIT, UPPER LIMIT AND SPACING OF SECOND GRID VARIABLE:

10.000000000000 60.000000000000 0.6250000E-01

NUMBER OF COLUMNS = 1120

NUMBER OF ROWS = 800

INPUT INDEPENDENT VARIABLE GRIDS

--------------------------------

MODE OF MASK GRID (0-3):

0 - MASK GRID NOT SUPPLIED

1 - GENERIC MASK GRID

2 - ARC/INFO MASK GRID

3 - IDRISI MASK IMAGE

0

MODE OF 3RD INDEPENDENT VARIABLE (0-3):

0 - USER SUPPLIED CONSTANT

1 - GENERIC INDEPENDENT VARIABLE GRID

2 - ARC/INFO INDEPENDENT VARIABLE GRID

3 - IDRISI INDEPENDENT VARIABLE IMAGE

2

INPUT GRID FILE NAME:

chinadem0.0625.dem

OUTPUT SURFACE GRIDS

--------------------

MODE OF OUTPUT GRIDS (0-3):

0 - X,Y,Z FORMAT

1 - GENERIC GRID BY ROWS

2 - ARC/INFO GRID

3 - IDRISI IMAGE

2

SPECIAL VALUE FOR OUTPUT GRIDS:

-9999.00

NAME OF OUTPUT GRID FILE FOR SURFACE 1:

20170401tmgrid.grd

OUTPUT ARC/INFO GRID FORMAT (BLANK FOR BINARY):

(1200f10.2)