coord. ref. : +proj=stere +lon\_0=-105 +lat\_0=90 +ellps=WGS84

names : Total.precipitation.1, Total.precipitation.2, Total.precipitation.3, Total.precipitation.4, Total.precipitation.5, Total.precipitation.6, Total.precipitation.7, Total.precipitation.8, Total.precipitation.9, Total.precipitation.10, Total.precipitation.11, Total.precipitation.12, Total.precipitation.13, Total.precipitation.14, Total.precipitation.15, ...

min values : NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, ...

max values : NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, ...

> click(s)

Total.precipitation.1 Total.precipitation.2 Total.precipitation.3 Total.precipitation.4

[1,] 0.039 0.02 0.674 0.163

Total.precipitation.5 Total.precipitation.6 Total.precipitation.7 Total.precipitation.8

[1,] 0.138 0.044 0 0.01

Total.precipitation.9 Total.precipitation.10 Total.precipitation.11

[1,] 0 0 0

Total.precipitation.12 Total.precipitation.13 Total.precipitation.14

[1,] 0 0 0

Total.precipitation.15 Total.precipitation.16 Total.precipitation.17

[1,] 0 0 0

Total.precipitation.18 Total.precipitation.19 Total.precipitation.20

[1,] 0 0 0

Total.precipitation.21 Total.precipitation.22 Total.precipitation.23

[1,] 0 0 0

Total.precipitation.24 Total.precipitation.25 Total.precipitation.26

[1,] 0 0 0

Total.precipitation.27 Total.precipitation.28 Total.precipitation.29

[1,] 0 0 0

Total.precipitation.30 Total.precipitation.31 Total.precipitation.32

[1,] 0 0 0

Total.precipitation.33 Total.precipitation.34 Total.precipitation.35

[1,] 0 0 0

Total.precipitation.36 Total.precipitation.37 Total.precipitation.38

[1,] 0 0 0

Total.precipitation.39 Total.precipitation.40 Total.precipitation.41

[1,] 0 0 0

Total.precipitation.42 Total.precipitation.43 Total.precipitation.44

[1,] 0 0 0

Total.precipitation.45 Total.precipitation.46 Total.precipitation.47

[1,] 0 0 0

Total.precipitation.48 Total.precipitation.49 Total.precipitation.50

[1,] 0 0 0

Total.precipitation.51 Total.precipitation.52 Total.precipitation.53

[1,] 0 0 0

Total.precipitation.54 Total.precipitation.55 Total.precipitation.56

[1,] 0 0 0

Total.precipitation.57 Total.precipitation.58 Total.precipitation.59

[1,] 0 0 0

Total.precipitation.60 Total.precipitation.61 Total.precipitation.62

[1,] 0 0 0

Total.precipitation.63 Total.precipitation.64 Total.precipitation.65

[1,] 0 0 0

Total.precipitation.66 Total.precipitation.67 Total.precipitation.68

[1,] 0 0 0

Total.precipitation.69 Total.precipitation.70 Total.precipitation.71

[1,] 0 0.039 0

Total.precipitation.72 Total.precipitation.73 Total.precipitation.74

[1,] 0 0 0

Total.precipitation.75 Total.precipitation.76 Total.precipitation.77

[1,] 0 0 0

Total.precipitation.78 Total.precipitation.79 Total.precipitation.80

[1,] 0 0 0

Total.precipitation.81 Total.precipitation.82 Total.precipitation.83

[1,] 0 0 0

Total.precipitation.84 Total.precipitation.85 Total.precipitation.86

[1,] 0 0 0

Total.precipitation.87 Total.precipitation.88 Total.precipitation.89

[1,] 0 0 0.217

Total.precipitation.90 Total.precipitation.91 Total.precipitation.92

[1,] 0.069 0.01 0

Total.precipitation.93 Total.precipitation.94 Total.precipitation.95

[1,] 0.192 0.064 0.005

Total.precipitation.96 Total.precipitation.97 Total.precipitation.98

[1,] 0 0.35 0.104

Total.precipitation.99 Total.precipitation.100 Total.precipitation.101

[1,] 0.03 0 0.015

Total.precipitation.102 Total.precipitation.103 Total.precipitation.104

[1,] 0.133 0.113 0.03

Total.precipitation.105 Total.precipitation.106 Total.precipitation.107

[1,] 0 0 0

Total.precipitation.108 Total.precipitation.109 Total.precipitation.110

[1,] 0 0 0

Total.precipitation.111 Total.precipitation.112 Total.precipitation.113

[1,] 0 0 0

Total.precipitation.114 Total.precipitation.115 Total.precipitation.116

[1,] 0 0 0

Total.precipitation.117 Total.precipitation.118 Total.precipitation.119

[1,] 0 0 0

Total.precipitation.120

[1,] 0

> v = .Last.value

> plot(v)

> v

Total.precipitation.1 Total.precipitation.2 Total.precipitation.3 Total.precipitation.4

[1,] 0.039 0.02 0.674 0.163

Total.precipitation.5 Total.precipitation.6 Total.precipitation.7 Total.precipitation.8

[1,] 0.138 0.044 0 0.01

Total.precipitation.9 Total.precipitation.10 Total.precipitation.11

[1,] 0 0 0

Total.precipitation.12 Total.precipitation.13 Total.precipitation.14

[1,] 0 0 0

Total.precipitation.15 Total.precipitation.16 Total.precipitation.17

[1,] 0 0 0

Total.precipitation.18 Total.precipitation.19 Total.precipitation.20

[1,] 0 0 0

Total.precipitation.21 Total.precipitation.22 Total.precipitation.23

[1,] 0 0 0

Total.precipitation.24 Total.precipitation.25 Total.precipitation.26

[1,] 0 0 0

Total.precipitation.27 Total.precipitation.28 Total.precipitation.29

[1,] 0 0 0

Total.precipitation.30 Total.precipitation.31 Total.precipitation.32

[1,] 0 0 0

Total.precipitation.33 Total.precipitation.34 Total.precipitation.35

[1,] 0 0 0

Total.precipitation.36 Total.precipitation.37 Total.precipitation.38

[1,] 0 0 0

Total.precipitation.39 Total.precipitation.40 Total.precipitation.41

[1,] 0 0 0

Total.precipitation.42 Total.precipitation.43 Total.precipitation.44

[1,] 0 0 0

Total.precipitation.45 Total.precipitation.46 Total.precipitation.47

[1,] 0 0 0

Total.precipitation.48 Total.precipitation.49 Total.precipitation.50

[1,] 0 0 0

Total.precipitation.51 Total.precipitation.52 Total.precipitation.53

[1,] 0 0 0

Total.precipitation.54 Total.precipitation.55 Total.precipitation.56

[1,] 0 0 0

Total.precipitation.57 Total.precipitation.58 Total.precipitation.59

[1,] 0 0 0

Total.precipitation.60 Total.precipitation.61 Total.precipitation.62

[1,] 0 0 0

Total.precipitation.63 Total.precipitation.64 Total.precipitation.65

[1,] 0 0 0

Total.precipitation.66 Total.precipitation.67 Total.precipitation.68

[1,] 0 0 0

Total.precipitation.69 Total.precipitation.70 Total.precipitation.71

[1,] 0 0.039 0

Total.precipitation.72 Total.precipitation.73 Total.precipitation.74

[1,] 0 0 0

Total.precipitation.75 Total.precipitation.76 Total.precipitation.77

[1,] 0 0 0

Total.precipitation.78 Total.precipitation.79 Total.precipitation.80

[1,] 0 0 0

Total.precipitation.81 Total.precipitation.82 Total.precipitation.83

[1,] 0 0 0

Total.precipitation.84 Total.precipitation.85 Total.precipitation.86

[1,] 0 0 0

Total.precipitation.87 Total.precipitation.88 Total.precipitation.89

[1,] 0 0 0.217

Total.precipitation.90 Total.precipitation.91 Total.precipitation.92

[1,] 0.069 0.01 0

Total.precipitation.93 Total.precipitation.94 Total.precipitation.95

[1,] 0.192 0.064 0.005

Total.precipitation.96 Total.precipitation.97 Total.precipitation.98

[1,] 0 0.35 0.104

Total.precipitation.99 Total.precipitation.100 Total.precipitation.101

[1,] 0.03 0 0.015

Total.precipitation.102 Total.precipitation.103 Total.precipitation.104

[1,] 0.133 0.113 0.03

Total.precipitation.105 Total.precipitation.106 Total.precipitation.107

[1,] 0 0 0

Total.precipitation.108 Total.precipitation.109 Total.precipitation.110

[1,] 0 0 0

Total.precipitation.111 Total.precipitation.112 Total.precipitation.113

[1,] 0 0 0

Total.precipitation.114 Total.precipitation.115 Total.precipitation.116

[1,] 0 0 0

Total.precipitation.117 Total.precipitation.118 Total.precipitation.119

[1,] 0 0 0

Total.precipitation.120

[1,] 0

> class(v)

[1] "matrix"

> head(v)

Total.precipitation.1 Total.precipitation.2 Total.precipitation.3 Total.precipitation.4

[1,] 0.039 0.02 0.674 0.163

Total.precipitation.5 Total.precipitation.6 Total.precipitation.7 Total.precipitation.8

[1,] 0.138 0.044 0 0.01

Total.precipitation.9 Total.precipitation.10 Total.precipitation.11

[1,] 0 0 0

Total.precipitation.12 Total.precipitation.13 Total.precipitation.14

[1,] 0 0 0

Total.precipitation.15 Total.precipitation.16 Total.precipitation.17

[1,] 0 0 0

Total.precipitation.18 Total.precipitation.19 Total.precipitation.20

[1,] 0 0 0

Total.precipitation.21 Total.precipitation.22 Total.precipitation.23

[1,] 0 0 0

Total.precipitation.24 Total.precipitation.25 Total.precipitation.26

[1,] 0 0 0

Total.precipitation.27 Total.precipitation.28 Total.precipitation.29

[1,] 0 0 0

Total.precipitation.30 Total.precipitation.31 Total.precipitation.32

[1,] 0 0 0

Total.precipitation.33 Total.precipitation.34 Total.precipitation.35

[1,] 0 0 0

Total.precipitation.36 Total.precipitation.37 Total.precipitation.38

[1,] 0 0 0

Total.precipitation.39 Total.precipitation.40 Total.precipitation.41

[1,] 0 0 0

Total.precipitation.42 Total.precipitation.43 Total.precipitation.44

[1,] 0 0 0

Total.precipitation.45 Total.precipitation.46 Total.precipitation.47

[1,] 0 0 0

Total.precipitation.48 Total.precipitation.49 Total.precipitation.50

[1,] 0 0 0

Total.precipitation.51 Total.precipitation.52 Total.precipitation.53

[1,] 0 0 0

Total.precipitation.54 Total.precipitation.55 Total.precipitation.56

[1,] 0 0 0

Total.precipitation.57 Total.precipitation.58 Total.precipitation.59

[1,] 0 0 0

Total.precipitation.60 Total.precipitation.61 Total.precipitation.62

[1,] 0 0 0

Total.precipitation.63 Total.precipitation.64 Total.precipitation.65

[1,] 0 0 0

Total.precipitation.66 Total.precipitation.67 Total.precipitation.68

[1,] 0 0 0

Total.precipitation.69 Total.precipitation.70 Total.precipitation.71

[1,] 0 0.039 0

Total.precipitation.72 Total.precipitation.73 Total.precipitation.74

[1,] 0 0 0

Total.precipitation.75 Total.precipitation.76 Total.precipitation.77

[1,] 0 0 0

Total.precipitation.78 Total.precipitation.79 Total.precipitation.80

[1,] 0 0 0

Total.precipitation.81 Total.precipitation.82 Total.precipitation.83

[1,] 0 0 0

Total.precipitation.84 Total.precipitation.85 Total.precipitation.86

[1,] 0 0 0

Total.precipitation.87 Total.precipitation.88 Total.precipitation.89

[1,] 0 0 0.217

Total.precipitation.90 Total.precipitation.91 Total.precipitation.92

[1,] 0.069 0.01 0

Total.precipitation.93 Total.precipitation.94 Total.precipitation.95

[1,] 0.192 0.064 0.005

Total.precipitation.96 Total.precipitation.97 Total.precipitation.98

[1,] 0 0.35 0.104

Total.precipitation.99 Total.precipitation.100 Total.precipitation.101

[1,] 0.03 0 0.015

Total.precipitation.102 Total.precipitation.103 Total.precipitation.104

[1,] 0.133 0.113 0.03

Total.precipitation.105 Total.precipitation.106 Total.precipitation.107

[1,] 0 0 0

Total.precipitation.108 Total.precipitation.109 Total.precipitation.110

[1,] 0 0 0

Total.precipitation.111 Total.precipitation.112 Total.precipitation.113

[1,] 0 0 0

Total.precipitation.114 Total.precipitation.115 Total.precipitation.116

[1,] 0 0 0

Total.precipitation.117 Total.precipitation.118 Total.precipitation.119

[1,] 0 0 0

Total.precipitation.120

[1,] 0

> plot(t(v)

+ )

> s

class : RasterStack

dimensions : 881, 1121, 987601, 120 (nrow, ncol, ncell, nlayers)

resolution : 4763, 4763 (x, y)

extent : -2041508, 3297815, -8166906, -3970703 (xmin, xmax, ymin, ymax)

coord. ref. : +proj=stere +lon\_0=-105 +lat\_0=90 +ellps=WGS84

names : Total.precipitation.1, Total.precipitation.2, Total.precipitation.3, Total.precipitation.4, Total.precipitation.5, Total.precipitation.6, Total.precipitation.7, Total.precipitation.8, Total.precipitation.9, Total.precipitation.10, Total.precipitation.11, Total.precipitation.12, Total.precipitation.13, Total.precipitation.14, Total.precipitation.15, ...

min values : NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, ...

max values : NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, ...

> time = substr(basename(f), 5,13)

> time[1]

[1] "200806090"

> plot(as.numeric(time), v)

> time

[1] "200806090" "200806090" "200806090" "200806090" "200806090" "200806090" "200806090"

[8] "200806090" "200806090" "200806090" "200806091" "200806091" "200806091" "200806091"

[15] "200806091" "200806091" "200806091" "200806091" "200806091" "200806091" "200806092"

[22] "200806092" "200806092" "200806092" "200806100" "200806100" "200806100" "200806100"

[29] "200806100" "200806100" "200806100" "200806100" "200806100" "200806100" "200806101"

[36] "200806101" "200806101" "200806101" "200806101" "200806101" "200806101" "200806101"

[43] "200806101" "200806101" "200806102" "200806102" "200806102" "200806102" "200806110"

[50] "200806110" "200806110" "200806110" "200806110" "200806110" "200806110" "200806110"

[57] "200806110" "200806110" "200806111" "200806111" "200806111" "200806111" "200806111"

[64] "200806111" "200806111" "200806111" "200806111" "200806111" "200806112" "200806112"

[71] "200806112" "200806112" "200806120" "200806120" "200806120" "200806120" "200806120"

[78] "200806120" "200806120" "200806120" "200806120" "200806120" "200806121" "200806121"

[85] "200806121" "200806121" "200806121" "200806121" "200806121" "200806121" "200806121"

[92] "200806121" "200806122" "200806122" "200806122" "200806122" "200806130" "200806130"

[99] "200806130" "200806130" "200806130" "200806130" "200806130" "200806130" "200806130"

[106] "200806130" "200806131" "200806131" "200806131" "200806131" "200806131" "200806131"

[113] "200806131" "200806131" "200806131" "200806131" "200806132" "200806132" "200806132"

[120] "200806132"

> time = substr(basename(f), 5,15)

> time[1]

[1] "2008060900\_"

> time = substr(basename(f), 5,14)

> time[1]

[1] "2008060900"

> time = substr(basename(f), 5,12)

> dn = substr(basename(f), 13,14)

> time[1]

[1] "20080609"

> dn[1]

[1] "00"

> date = as.Date(time, "%Y%M%D")

> date[1]

[1] NA

> time[1]

[1] "20080609"

> ?as.Date

> plot(r1)

> xy = click(3)

Error in function (classes, fdef, mtable) :

unable to find an inherited method for function ‘click’ for signature ‘"numeric"’

> xy = click(n=3)

> xy

x y

[1,] 214931.8 -6318261

[2,] 1395566.2 -6242091

[3,] 690994.1 -6965706

> p = drawPoly()

> p = drawPoly()

> p = drawPoly()

> v = extract(s, p)

> class(v)

[1] "list"

> vv = v[[1]]

> class(vv)

[1] "matrix"

> head(vv)

Total.precipitation.1 Total.precipitation.2 Total.precipitation.3 Total.precipitation.4

[1,] 0 0 0 0

[2,] 0 0 0 0

[3,] 0 0 0 0

[4,] 0 0 0 0

[5,] 0 0 0 0

[6,] 0 0 0 0

Total.precipitation.5 Total.precipitation.6 Total.precipitation.7 Total.precipitation.8

[1,] 0 0 0 0

[2,] 0 0 0 0

[3,] 0 0 0 0

[4,] 0 0 0 0

[5,] 0 0 0 0

[6,] 0 0 0 0

Total.precipitation.9 Total.precipitation.10 Total.precipitation.11

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.12 Total.precipitation.13 Total.precipitation.14

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.15 Total.precipitation.16 Total.precipitation.17

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.18 Total.precipitation.19 Total.precipitation.20

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.21 Total.precipitation.22 Total.precipitation.23

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.24 Total.precipitation.25 Total.precipitation.26

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.27 Total.precipitation.28 Total.precipitation.29

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.30 Total.precipitation.31 Total.precipitation.32

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.33 Total.precipitation.34 Total.precipitation.35

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.36 Total.precipitation.37 Total.precipitation.38

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.39 Total.precipitation.40 Total.precipitation.41

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.42 Total.precipitation.43 Total.precipitation.44

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.45 Total.precipitation.46 Total.precipitation.47

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.48 Total.precipitation.49 Total.precipitation.50

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.51 Total.precipitation.52 Total.precipitation.53

[1,] 0 0.000 0

[2,] 0 0.000 0

[3,] 0 0.000 0

[4,] 0 0.000 0

[5,] 0 0.010 0

[6,] 0 0.039 0

Total.precipitation.54 Total.precipitation.55 Total.precipitation.56

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.57 Total.precipitation.58 Total.precipitation.59

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.60 Total.precipitation.61 Total.precipitation.62

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.63 Total.precipitation.64 Total.precipitation.65

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.66 Total.precipitation.67 Total.precipitation.68

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.69 Total.precipitation.70 Total.precipitation.71

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.72 Total.precipitation.73 Total.precipitation.74

[1,] 0 0 0.039

[2,] 0 0 0.000

[3,] 0 0 0.010

[4,] 0 0 0.000

[5,] 0 0 0.000

[6,] 0 0 0.000

Total.precipitation.75 Total.precipitation.76 Total.precipitation.77

[1,] 0.039 0.039 0

[2,] 0.000 0.000 0

[3,] 0.000 0.000 0

[4,] 0.000 0.015 0

[5,] 0.000 0.000 0

[6,] 0.000 0.000 0

Total.precipitation.78 Total.precipitation.79 Total.precipitation.80

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.81 Total.precipitation.82 Total.precipitation.83

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.84 Total.precipitation.85 Total.precipitation.86

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.87 Total.precipitation.88 Total.precipitation.89

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.90 Total.precipitation.91 Total.precipitation.92

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.93 Total.precipitation.94 Total.precipitation.95

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.96 Total.precipitation.97 Total.precipitation.98

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.99 Total.precipitation.100 Total.precipitation.101

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.102 Total.precipitation.103 Total.precipitation.104

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.105 Total.precipitation.106 Total.precipitation.107

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.108 Total.precipitation.109 Total.precipitation.110

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.111 Total.precipitation.112 Total.precipitation.113

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.114 Total.precipitation.115 Total.precipitation.116

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.117 Total.precipitation.118 Total.precipitation.119

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.120

[1,] 0

[2,] 0

[3,] 0

[4,] 0

[5,] 0

[6,] 0

> dim(vv)

[1] 5354 120

> vv[1:5, 1:5]

Total.precipitation.1 Total.precipitation.2 Total.precipitation.3 Total.precipitation.4

[1,] 0 0 0 0

[2,] 0 0 0 0

[3,] 0 0 0 0

[4,] 0 0 0 0

[5,] 0 0 0 0

Total.precipitation.5

[1,] 0

[2,] 0

[3,] 0

[4,] 0

[5,] 0

> v = extract(s, p, cell=T)

> vv[1:5, 1:5]

Total.precipitation.1 Total.precipitation.2 Total.precipitation.3 Total.precipitation.4

[1,] 0 0 0 0

[2,] 0 0 0 0

[3,] 0 0 0 0

[4,] 0 0 0 0

[5,] 0 0 0 0

Total.precipitation.5

[1,] 0

[2,] 0

[3,] 0

[4,] 0

[5,] 0

> v[[1]][1:5, 1:5]

cell Total.precipitation.1 Total.precipitation.2 Total.precipitation.3

[1,] 813075 0 0 0

[2,] 814195 0 0 0

[3,] 814196 0 0 0

[4,] 814197 0 0 0

[5,] 815316 0 0 0

Total.precipitation.4

[1,] 0

[2,] 0

[3,] 0

[4,] 0

[5,] 0

> vv = v[[1]]

> xy = xyFromCell(s, vv[,1])

> head(xy)

x y

[1,] -376839.2 -7426260

[2,] -381602.2 -7431023

[3,] -376839.2 -7431023

[4,] -372076.2 -7431023

[5,] -381602.2 -7435786

[6,] -376839.2 -7435786

> points(xy)

> sp = SpatialPoints(xy, crs=CRS(proj4string(s)))

Error in SpatialPoints(xy, crs = CRS(proj4string(s))) :

unused argument(s) (crs = CRS(proj4string(s)))

> sp = SpatialPoints(xy, proj4string=CRS(proj4string(s)))

> spll = spTransform(sp, CRS('+proj=lonlat'))

> xy2 = coordinates(spll)

> head(xy2)

x y

[1,] -107.9049 29.52044

[2,] -107.9397 29.48675

[3,] -107.9031 29.48838

[4,] -107.8664 29.49000

[5,] -107.9378 29.45471

[6,] -107.9012 29.45634

> print(r1)

[1] "file /Users/KtP/Dropbox/ktp/RStuff/CEESG\_Rwkshp/FiveTestDays/ST4\_2008060900\_01h.nc has 3 dimensions:"

[1] "ProjectionHr Size: 1"

[1] "YCells Size: 881"

[1] "XCells Size: 1121"

[1] "------------------------"

[1] "file /Users/KtP/Dropbox/ktp/RStuff/CEESG\_Rwkshp/FiveTestDays/ST4\_2008060900\_01h.nc has 4 variables:"

[1] "char MapProjection[] Longname:MapProjection Missval:NA"

[1] "float longitude[XCells,YCells] Longname:longitude coordinate Missval:1e+30"

[1] "float latitude[XCells,YCells] Longname:latitude coordinate Missval:1e+30"

[1] "float APCP\_SFC[XCells,YCells,ProjectionHr] Longname:Total precipitation Missval:9999"

[[1]]

[1] 655360

> r1 <- raster(paste(ncdf.root,"ST4\_2008060900\_01h.nc",sep=""), var='latitude')

> r2 <- raster(paste(ncdf.root,"ST4\_2008060900\_01h.nc",sep=""), var='longitude')

> plot(r1)

> plot(r2)

> ss = stack(r1, r2, s)

> x = extract(s, p, cell=T)

> head(x[[1]])

cell Total.precipitation.1 Total.precipitation.2 Total.precipitation.3

[1,] 813075 0 0 0

[2,] 814195 0 0 0

[3,] 814196 0 0 0

[4,] 814197 0 0 0

[5,] 815316 0 0 0

[6,] 815317 0 0 0

Total.precipitation.4 Total.precipitation.5 Total.precipitation.6 Total.precipitation.7

[1,] 0 0 0 0

[2,] 0 0 0 0

[3,] 0 0 0 0

[4,] 0 0 0 0

[5,] 0 0 0 0

[6,] 0 0 0 0

Total.precipitation.8 Total.precipitation.9 Total.precipitation.10 Total.precipitation.11

[1,] 0 0 0 0

[2,] 0 0 0 0

[3,] 0 0 0 0

[4,] 0 0 0 0

[5,] 0 0 0 0

[6,] 0 0 0 0

Total.precipitation.12 Total.precipitation.13 Total.precipitation.14

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.15 Total.precipitation.16 Total.precipitation.17

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.18 Total.precipitation.19 Total.precipitation.20

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.21 Total.precipitation.22 Total.precipitation.23

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.24 Total.precipitation.25 Total.precipitation.26

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.27 Total.precipitation.28 Total.precipitation.29

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.30 Total.precipitation.31 Total.precipitation.32

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.33 Total.precipitation.34 Total.precipitation.35

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.36 Total.precipitation.37 Total.precipitation.38

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.39 Total.precipitation.40 Total.precipitation.41

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.42 Total.precipitation.43 Total.precipitation.44

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.45 Total.precipitation.46 Total.precipitation.47

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.48 Total.precipitation.49 Total.precipitation.50

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.51 Total.precipitation.52 Total.precipitation.53

[1,] 0 0.000 0

[2,] 0 0.000 0

[3,] 0 0.000 0

[4,] 0 0.000 0

[5,] 0 0.010 0

[6,] 0 0.039 0

Total.precipitation.54 Total.precipitation.55 Total.precipitation.56

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.57 Total.precipitation.58 Total.precipitation.59

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.60 Total.precipitation.61 Total.precipitation.62

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.63 Total.precipitation.64 Total.precipitation.65

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.66 Total.precipitation.67 Total.precipitation.68

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.69 Total.precipitation.70 Total.precipitation.71

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.72 Total.precipitation.73 Total.precipitation.74

[1,] 0 0 0.039

[2,] 0 0 0.000

[3,] 0 0 0.010

[4,] 0 0 0.000

[5,] 0 0 0.000

[6,] 0 0 0.000

Total.precipitation.75 Total.precipitation.76 Total.precipitation.77

[1,] 0.039 0.039 0

[2,] 0.000 0.000 0

[3,] 0.000 0.000 0

[4,] 0.000 0.015 0

[5,] 0.000 0.000 0

[6,] 0.000 0.000 0

Total.precipitation.78 Total.precipitation.79 Total.precipitation.80

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.81 Total.precipitation.82 Total.precipitation.83

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.84 Total.precipitation.85 Total.precipitation.86

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.87 Total.precipitation.88 Total.precipitation.89

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.90 Total.precipitation.91 Total.precipitation.92

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.93 Total.precipitation.94 Total.precipitation.95

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.96 Total.precipitation.97 Total.precipitation.98

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.99 Total.precipitation.100 Total.precipitation.101

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.102 Total.precipitation.103 Total.precipitation.104

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.105 Total.precipitation.106 Total.precipitation.107

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.108 Total.precipitation.109 Total.precipitation.110

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.111 Total.precipitation.112 Total.precipitation.113

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.114 Total.precipitation.115 Total.precipitation.116

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.117 Total.precipitation.118 Total.precipitation.119

[1,] 0 0 0

[2,] 0 0 0

[3,] 0 0 0

[4,] 0 0 0

[5,] 0 0 0

[6,] 0 0 0

Total.precipitation.120

[1,] 0

[2,] 0

[3,] 0

[4,] 0

[5,] 0

[6,] 0

> x[[1]][1:5, 1:5]

cell Total.precipitation.1 Total.precipitation.2 Total.precipitation.3

[1,] 813075 0 0 0

[2,] 814195 0 0 0

[3,] 814196 0 0 0

[4,] 814197 0 0 0

[5,] 815316 0 0 0

Total.precipitation.4

[1,] 0

[2,] 0

[3,] 0

[4,] 0

[5,] 0

> x = extract(ss, p)

> x[[1]][1:5, 1:5]

latitude.coordinate longitude.coordinate Total.precipitation.1 Total.precipitation.2

[1,] 29.85899 -107.0001 0 0

[2,] 29.82343 -107.0383 0 0

[3,] 29.82464 -106.9987 0 0

[4,] 29.82582 -106.9591 0 0

[5,] 29.78908 -107.0369 0 0

Total.precipitation.3

[1,] 0

[2,] 0

[3,] 0

[4,] 0

[5,] 0