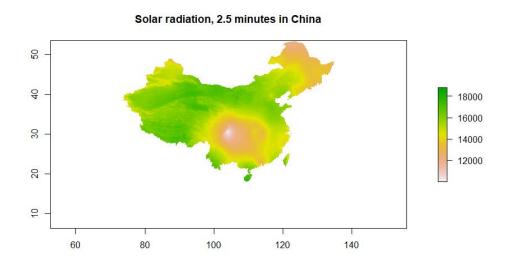
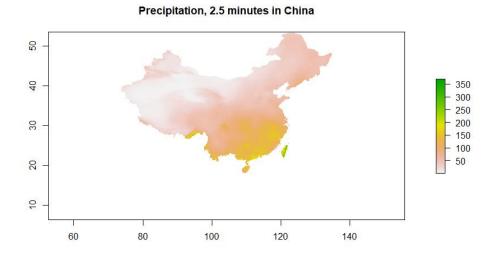
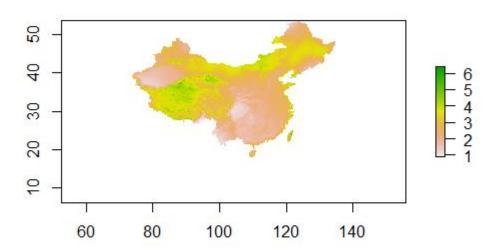
1.2 在中国地图上绘制三个参数数据集信息。



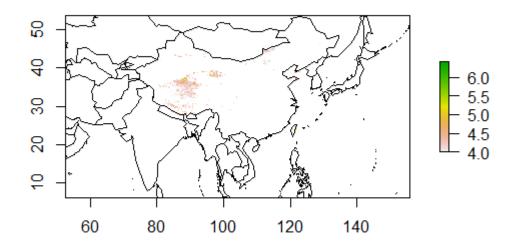


Wind speed, 2.5 minutes in China



1.3 基于风力数据绘制全国年平均风速大于 4m/s 的风力分布图,这些地方适合 开发风电场。

My favorite spots to build wind farms

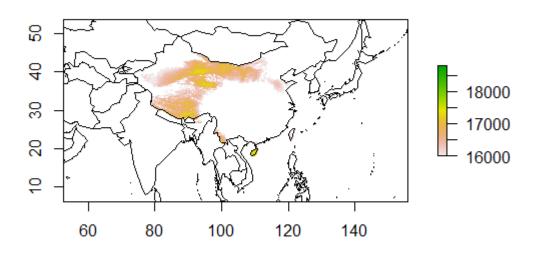


青藏和新疆比较适合建风电场,内蒙古中部地区也适合。

1.4 基于太阳辐射和降水数据绘制全国年平均降水小于 400ML&太阳辐射大于

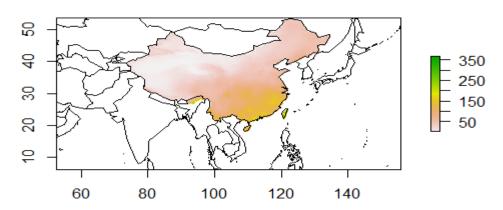
16000KJ 的地区分布图,这些地方适合开发光伏电场。 plot(srad_crop3,main =' My favorite spots of PV farms') maps::map('world',add=T)

My favorite spots of PV farms



plot(prec_crop3,main =' My favorite spots of PV farms')
maps::map('world',add=T)

My favorite spots of PV farms



青藏与新疆地区适合开发光伏电场。

2.1

```
[ese-xuep@login01 /]$ cd ~
[ese-xuep@login01 ~]$ ln -s data_demo data_demo_link
[ese-xuep@login01 ~]$ ll
total 3
drwxr-xr-x 2 root root 4096 Sep 26 15:20 billing_report
drwxr-xr-x 10 ese-xuep ese-ouycc 4096 Nov 21 11:48 data_demo
lrwxrwxrwx 1 ese-xuep ese-ouycc 9 Nov 21 13:38 data_demo_link -> data_demo
drwxr-xr-x 2 ese-xuep ese-ouycc 4096 Sep 12 11:03 exam
-rw-r--r- 1 ese-xuep ese-ouycc 5 Nov 19 19:44 file1
drwxr-xr-x 2 ese-xuep_ese-ouycc 4096 Nov 19 20:25 TEST
```

2.2

```
[ese-xuep@login01 data]$ touch planets.txt_lst
[ese-xuep@login01 data]$ ll
total 260
-rw-r--r-- 1 ese-xuep ese-ouycc
                                  283 Nov 19 19:46 amino-acids.txt
drwxr-xr-x 2 ese-xuep ese-ouycc
                                 4096 Nov 19 19:20 animal-counts
-rw-r--r-- 1 ese-xuep ese-ouycc
                                  136 Nov 19 19:46 animals.txt
-rw-r--r-- 1 ese-xuep ese-ouycc
                                   37 Nov 19 20:16 draft666
drwxr-xr-x 2 ese-xuep ese-ouycc
                                 4096 Nov 19 19:20 elements
-rw-r--r-- 1 ese-xuep ese-ouycc
                                  554 Nov 19 19:46 morse.txt
drwxr-xr-x 2 ese-xuep ese-ouycc
                                 4096 Nov 19 19:20 pdb
-rw-r--r-- 1 ese-xuep ese-ouycc
                                 8898 Nov 19 19:46 planets.txt
-rw-r--r-- 1 ese-xuep ese-ouycc
                                    0 Nov 21 13:45 planets.txt_lst
-rw-r--r-- 1 ese-xuep ese-ouycc
                                   45 Nov 19 19:46 salmon.txt
-rw-r--r-- 1 ese-xuep ese-ouycc 73861 Nov 19 19:46 sunspot.txt
```

2.3

```
[ese-xuep@login01 data]$ echo $HOME
/work/ese-xuep
```

2.4

```
[ese-xuep@login01 ~]$ cd data_demo/data
[ese-xuep@login01 data]$ find . -name "*.pdb" | wc -l
48
```

2.5

```
[ese-xuep@login01 data]$ cd pdb
[ese-xuep@login01 pdb]$ cd tnt.pdb
-bash: cd: tnt.pdb: Not a directory
[ese-xuep@login01 pdb]$ grep -o 'c' tnt.pdb | wc -l
0
```

2.6

```
[ese-xuep@login01 pdb]$ diff ethane.pdb ethanol.pdb
1,11c1,12
< COMPND
             ETHANE
< AUTHOR
             DAVE WOODCOCK 95 12 18
                                         0.001 -0.141 1.00 0.00
< ATOM
           1 C
                               -0.752
< ATOM
           2 C
                                0.752
                                        -0.001 0.141 1.00 0.00
                                -1.158
                                        0.991
                                               0.070 1.00 0.00
< ATOM
                         1
                                                       1.00 0.00
< ATOM
                                        -0.737
                                                0.496
                                -1.240
            H
< ATOM
           5
                                -0.924
                                        -0.249
                                                -1.188
                                                       1.00
                                                             0.00
                                 1.158
                                                -0.070
                                        -0.991
< ATOM
           6
                         1
                                                       1.00
                                                             0.00
                                                       1.00
                                0.924
                                        0.249
                                                1.188
< ATOM
                                                             0.00
< ATOM
           8 H
                                 1.240
                                         0.737
                                                -0.496
                                                       1.00
                                                             0.00
< TER
> COMPND
             ETHANOL
> AUTHOR
             DAVE WOODCOCK 96 01 03
> ATOM
                                -0.426
                                        -0.115
                                               -0.147 1.00
                                                             0.00
                                               -0.481
                                                      1.00
> ATOM
                                -0.599
                                        1.244
           2
              0
                                                             0.00
                                                      1.00 0.00
                                        -0.738 -0.981
> ATOM
                         1
                                -0.750
                                                0.735 1.00 0.00
> ATOM
           4 H
                                -1.022
                                        -0.351
> ATOM
                                -1.642
                                        1.434 -0.689
                                                      1.00 0.00
           6
                                        -0.383 0.147
                                                       1.00 0.00
> ATOM
                                1.047
                                                      1.00
                                                            0.00
> ATOM
              Н
                         1
                                1.370
                                        0.240
                                                0.981
                                                      1.00
> ATOM
           8
              Н
                         1
                                 1.642
                                        -0.147
                                                -0.735
                                                             0.00
> ATOM
           9
              Н
                                 1.180
                                        -1.434
                                                0.405
                                                             0.00
> TER
          10
```

2.7

```
[ese-xuep@login01 ~]$ df -h data_demo
Filesystem Size Used Avail Use% Mounted on
work 501T 167T 334T 34% /work
[ese-xuep@login01 ~]$ ■
```

2.8

```
[ese-xuep@login01 ~]$ cp -r data_demo data_demo_new
[ese-xuep@login01 ~]$ ll
total 4
drwxr-xr-x 2 root root 4096 Sep 26 15:20 billing_report
drwxr-xr-x 10 ese-xuep ese-ouycc 4096 Nov 21 11:48 data_demo
lrwxrwxrwx 1 ese-xuep ese-ouycc 9 Nov 21 13:38 data_demo_link -> data_demo
drwxr-xr-x 10 ese-xuep ese-ouycc 4096 Nov 21 15:01 data_demo_new
drwxr-xr-x 2 ese-xuep ese-ouycc 4096 Sep 12 11:03 exam
-rw-r--r- 1 ese-xuep ese-ouycc 5 Nov 19 19:44 file1
drwxr-xr-x 2 ese-xuep_ese-ouycc 4096 Nov 19 20:25 TEST
```

```
[ese-xuep@login01 ~]$ zip ddl.zip data_demo_link
updating: data_demo_link/ (stored 0%)
[ese-xuep@login01 ~]$ unzip ddl.zip
Archive: ddl.zip
replace data_demo_link/molecules/methane.pdb? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
   inflating: data_demo_link/molecules/methane.pdb
replace data_demo_link/molecules/pentane.pdb? [y]es, [n]o, [A]ll, [N]one, [r]ename: N
[ese-xuep@login01 ~]$ ■
```

2.9

```
[ese-xuep@login01 ~]$ chmod 750 data_demo_new
[ese-xuep@login01 ~]$ ll
total 4
drwxr-xr-x 2 root root 4096 Sep 26 15:20 billing_report
drwxr-xr-x 10 ese-xuep ese-ouycc 4096 Nov 21 11:48 data_demo
lrwxrwxrwx 1 ese-xuep ese-ouycc 9 Nov 21 13:38 data_demo_link -> data_demo
drwxr-x--- 10 ese-xuep ese-ouycc 4096 Nov 21 15:01 data_demo_new
drwxr-xr-x 2 ese-xuep ese-ouycc 4096 Sep 12 11:03 exam
-rw-r--r-- 1 ese-xuep ese-ouycc 5 Nov 19 19:44 file1
drwxr-xr-x 2 ese-xuep_ese-ouycc 4096 Nov 19 20:25 TEST
```

2.10

```
[ese-xuep@login01 ~]$ history 10
  268 chmod-v
        chmod u=rwx,g=rx
  269
       cd ..
chmod 750 data_demo_new
chmod -v
  270
  271
  272
        chmod 750 data demo_new
  273
  274
        history | tail=10
history | tail-10
history 10
  275
  276
  277
[ese-xuep@login01 ~]$
```