

MEMBUAT PETA DATA GEOSPASIAL

INTRODUCTION TO GMT

Generic
Mapping
Tool

Command Line

Banyak Fitur 80 command 10+opsi 100 config

Dokumentasi yang komprehensif 900 halaman

Digunakan sejak 1988

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```
gmt pscoast -R90/145/-12/10 -JM4i -W -Ssteelblue > id.ps
```

gmt
command
untuk
membuat
garis pantai

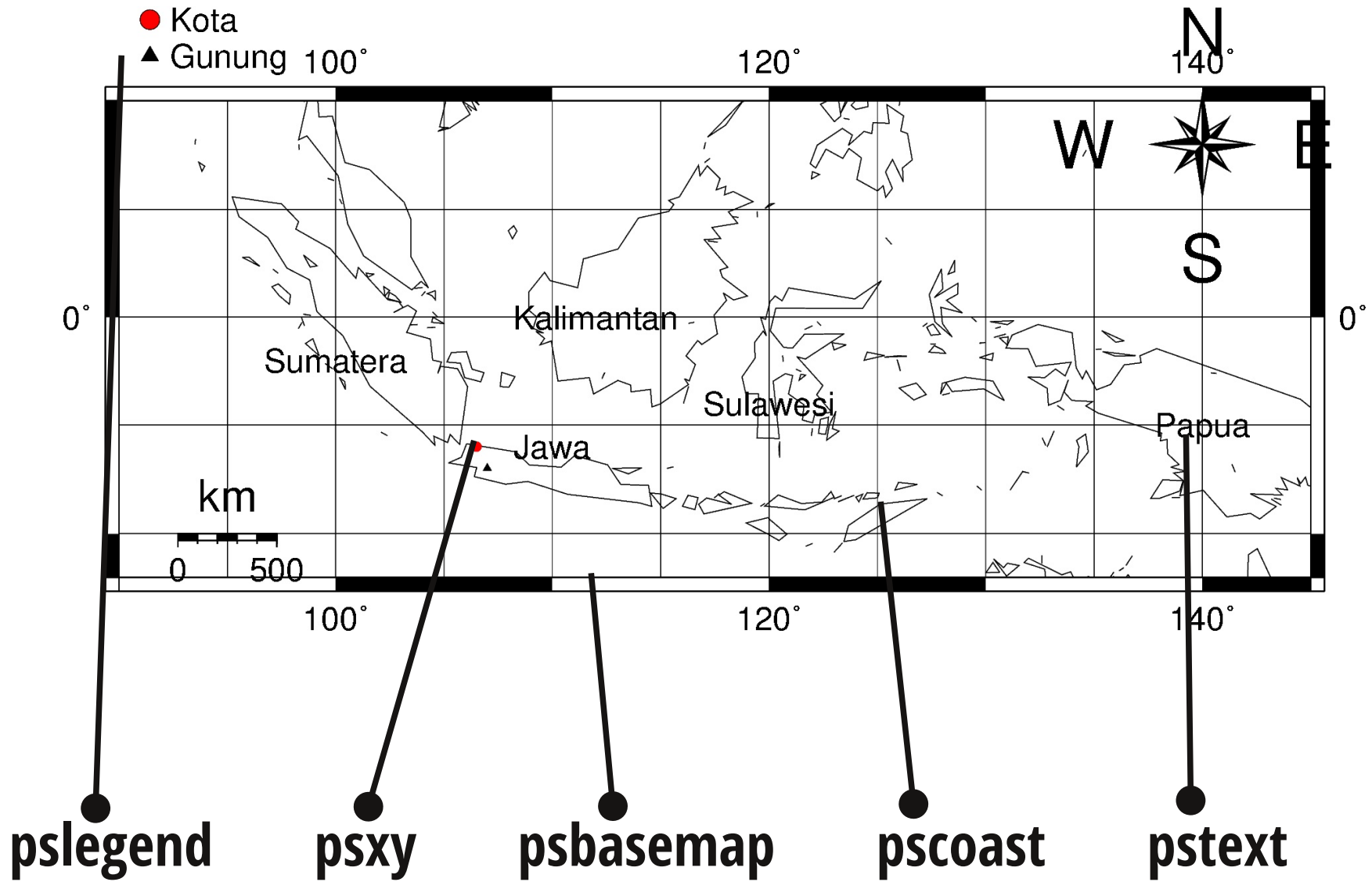
jenis proyeksi
mercator
4 inci

peta
disimpan
dalam
file
postscript

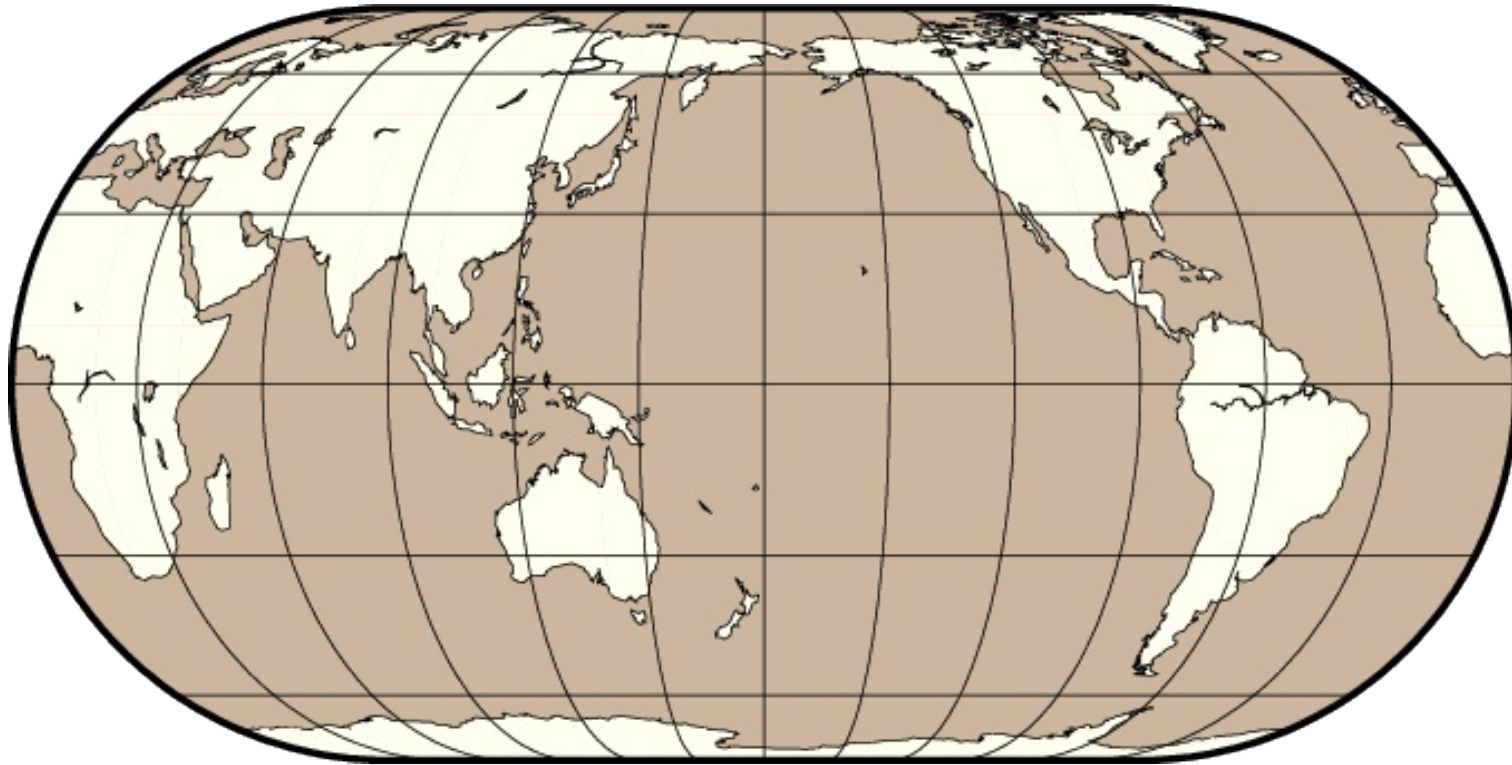
```
gmt pscoast -R90/145/-12/10 -JM4i -W -Ssteelblue > id.ps
```

region yang akan dipetakan
longitude 90 sampai 145
latitude -12 sampai 10

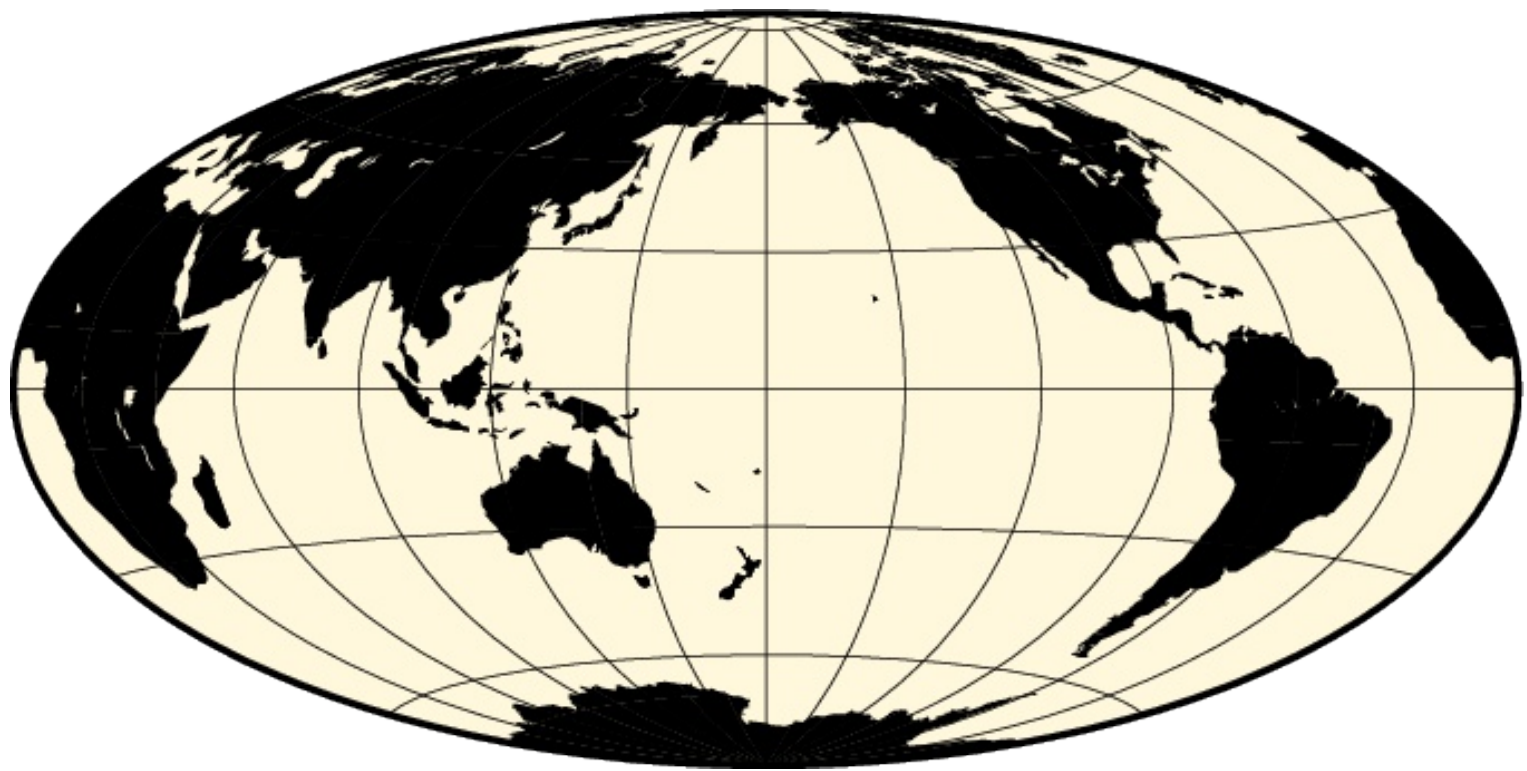
warna untuk
laut, danau,
daerah perairan



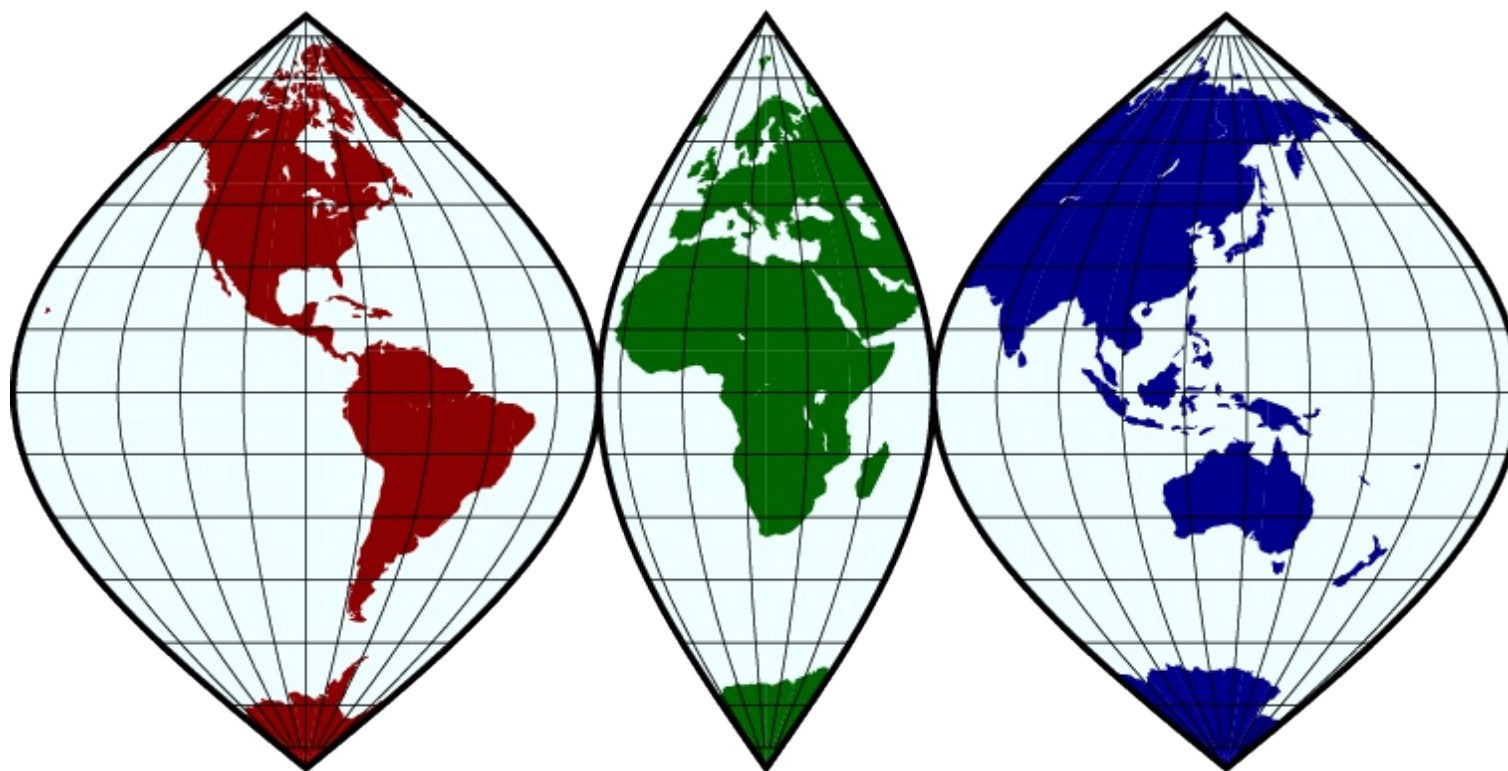
```
gmt psbasemap -R90/145/-12/10 -JM6i -Ba20f10g5  
              -Lf95/-10/0/500+l -Tf140/8/0.5i/2 -K > z.ps  
gmt pscoast -R -J -W -G -Dc -O -K >> z.ps  
gmt pstext namapulau.csv -R -J -O -K >> z.ps  
gmt pslegend legend.dat -D90/15/1i/LT -R -J -O -K >> z.ps  
gmt psxy kota.csv -R -J -S -Cwarna.cpt -O >> z.ps  
gmt ps2raster z.ps -Tg -P -A0 -Qg2
```



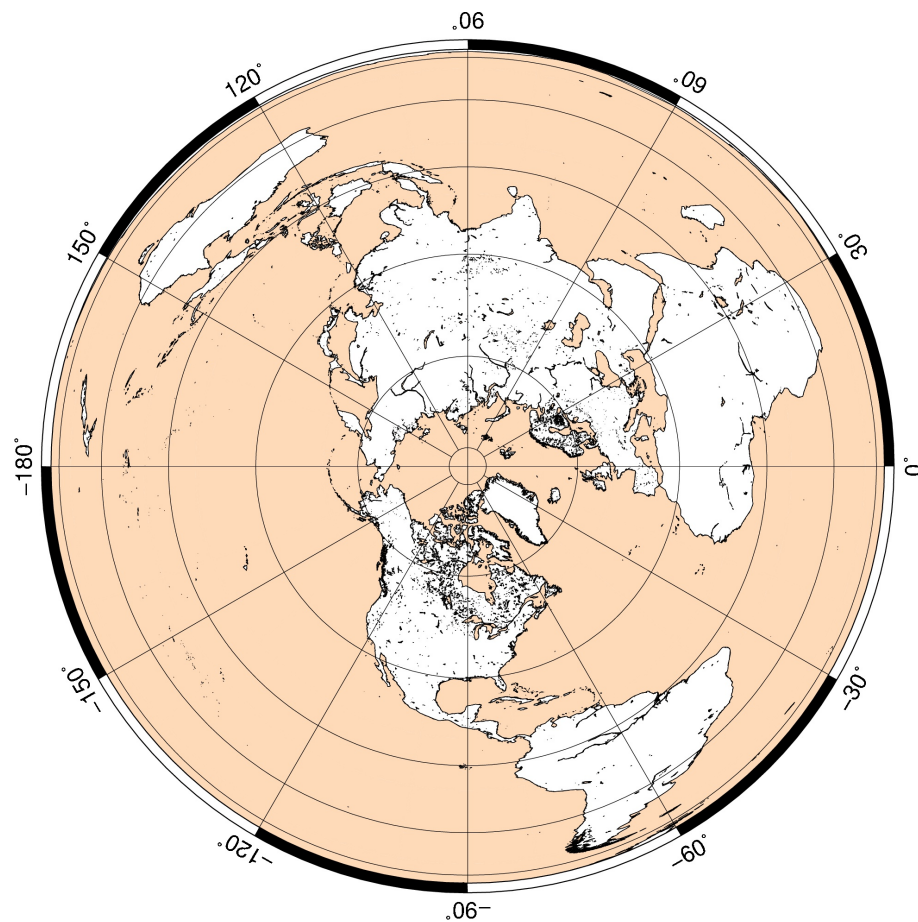
Eckert



Hammer



Sinusoidal



Lambert

lat	lon	val1	val2
94.20	, 1.873	, 15.0	, 7.8
136.94	, -1.829	, 15.0	, 8.1
101.82	, -3.924	, 35.0	, 7.6
135.73	, -3.196	, 25.0	, 7.1
138.01	, -3.987	, 35.0	, 7.7
110.62	, -10.08	, 15.0	, 7.6
118.68	, -9.272	, 35.0	, 7.0
129.55	, -1.231	, 15.0	, 7.4
126.30	, 1.19	, 15.0	, 7.1
126.01	, 1.292	, 15.0	, 7.0
130.62	, -0.652	, 15.0	, 7.3
110.61	, -9.156	, 35.0	, 7.1
139.28	, -2.834	, 35.0	, 7.6
122.09	, -6.718	, 15.0	, 7.1
130.36	, -6.766	, 35.0	, 7.5
131.76	, -0.56	, 15.0	, 7.1
133.83	, -4.191	, 15.0	, 7.0

0	212/53/56	20	212/53/56
20	161/40/42	40	161/40/42
40	128/22/20	60	128/22/20
60	82/10/13	80	82/10/13
80	38/1/3	100	38/1/3
B	212/53/56		
F	38/1/3		
N	127.5		

```
1 filedata=data.xyz
2 filetext=label.xyz
3 filepeta=peta.png
4 fileps=peta.ps
5 filewarna=depth.warna
6 filedem=iddem.xyz
7 filewem=elev.warna
8
9 gmt psbasemap -R92/142/-15/10 -JM8i -Bp5 -K --FONT_ANNOT_PRIMARY=5p,Helvetica-Narrow --MAP_FRAME_WIDTH
10 gmt psxy $filedem -R -J -Sc0.001i -C$filewem -O -K >> $fileps
11 gmt pscoast -R -J -Df+ -Ir/faint -Ssteelblue -Wfaint -N1/thinnest,red,-. -O -K >> $fileps
12 gmt psxy $filedata -R -J -Sc -C$filewarna -O -K >> $fileps
13 gmt pstext $filetext -R -J -F+f+a+j -Dj2p -O -K >> $fileps
14 gmt psscale -D4i/0.4i/5i/0.1ih -C$filewarna -O --FONT_ANNOT_PRIMARY=5p,Helvetica-Narrow >> $fileps
15 gmt ps2raster $fileps -E600 -A0.2i -P -Tg -Qg4 -Qt4 -F$filepeta
16
```