

geOR

#1. visual fitting

```
install.packages("geOR")
library(geOR)
data(camg)
class(camg)

ca <- as.geodata(camg,data.col=5)
data(ca)

summary(ca)
plot(ca)
points(ca)

var1 <- variog(ca,uvec=seq(0,700,by=50)) # var1 <- variog(ca, max.dist=700)
plot(var1,type="b")

v.eye <- eyefit(var1)
#v.eye

v1.fit <- likfit(ca,ini=c(30,100),,nugget=18, cov.model="exponential")
summary(v1.fit)

plot(var1)
lines(v1.fit)

#anistrophy

#note radiance is used for angles

var2 <- variog(ca,direction=0.5) #28.66 degree
var3 <- variog(ca,direction=2.04)

plot.new()
par(mfrow=c(1,2))

plot(var2)
plot(var3)

v2.fit <- likfit(ca,ini=c(30,100),,nugget=18, cov.model="exponential",
fix.psiA=FALSE, psiA=0.5, fix.psiR=FALSE, psiR=1.5)
summary(v2.fit)

var4 <- variog(ca,direction=1.728)
var5 <- variog(ca,direction=0.158)

plot.new()
```

```
par(mfrow=c(1,2))
```

```
plot(var4)
```

```
plot(var5)
```

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