

MTEXにおけるHALFWIDTH変更によるGossODFの挙動

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HelperTex Office

概要

MTEXのModeling調査のため、`psi = vonMisesFisherKernel('HALFWIDTH',XX*degree)`のXX部分を5→50まで変化させODF図を作成し、ODFの調査を行った。

ODF図作成

```
CS= crystalSymmetry('cubic')
```

```
SS = specimenSymmetry('1')
```

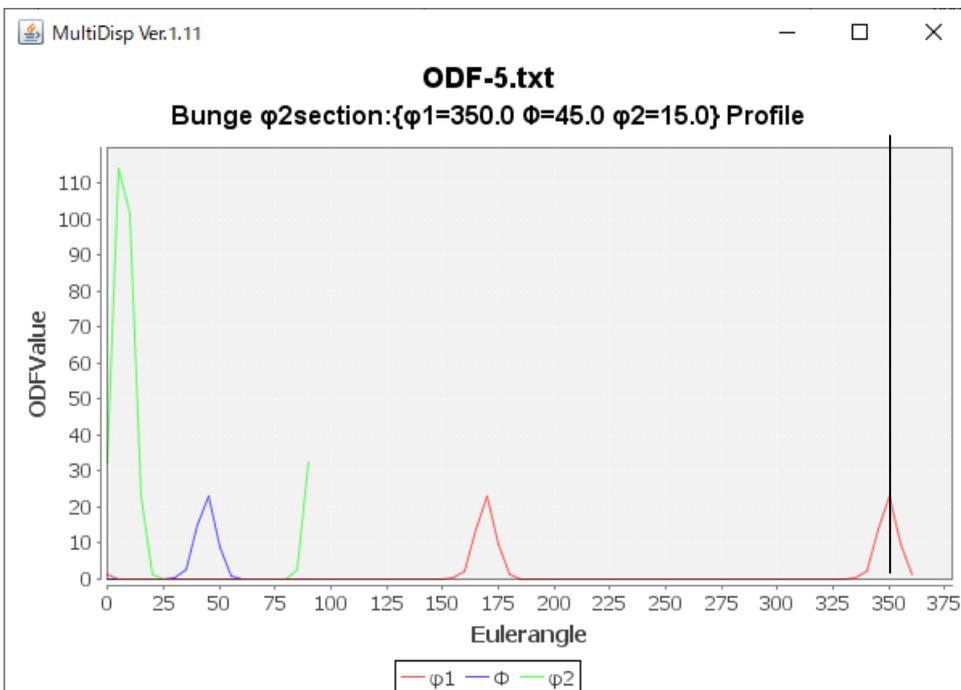
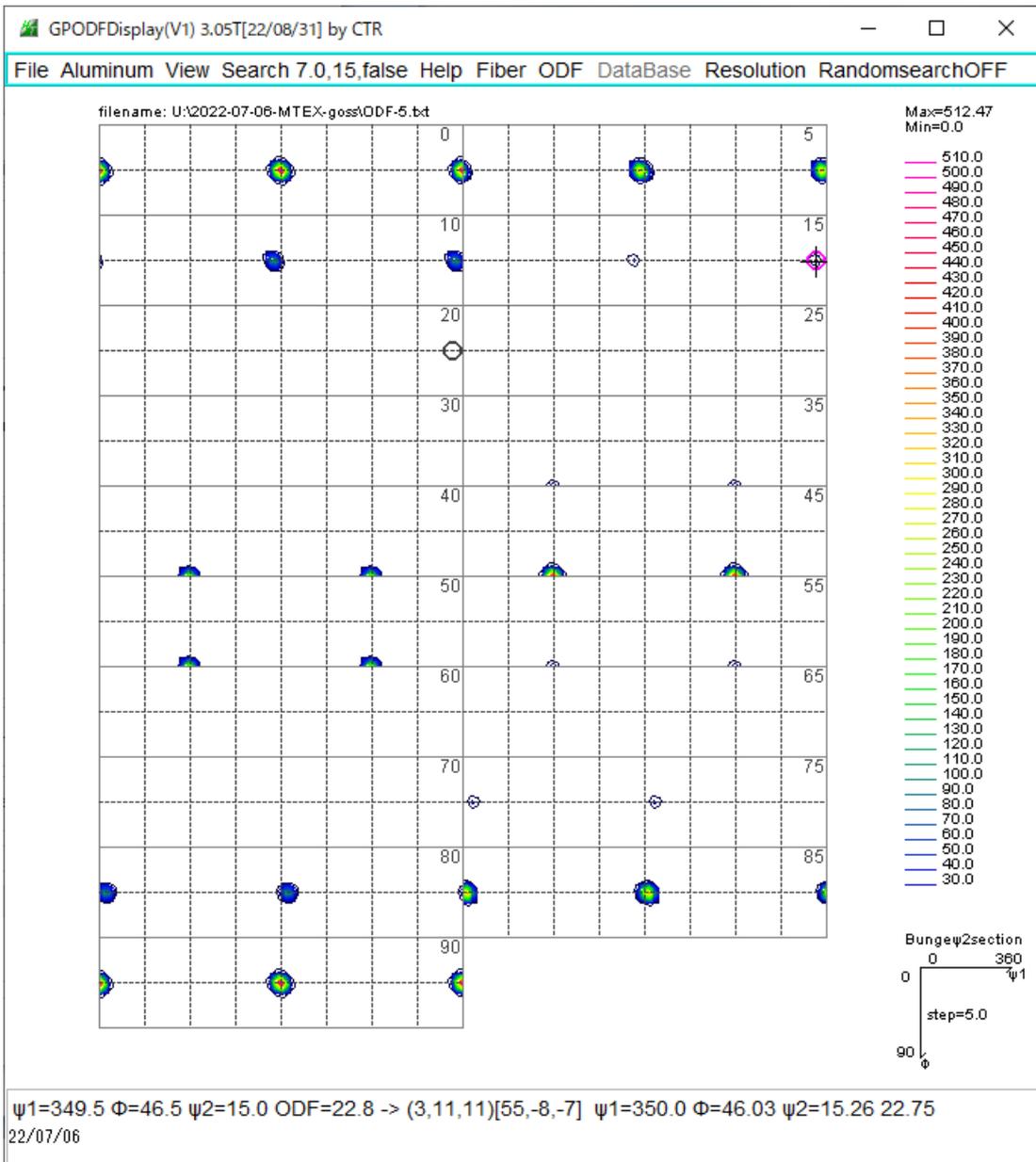
```
Ori1 = orientation.byMiller([1 1 0],[0 0 1],CS)
```

```
psi = vonMisesFisherKernel('HALFWIDTH',XX*degree)
```

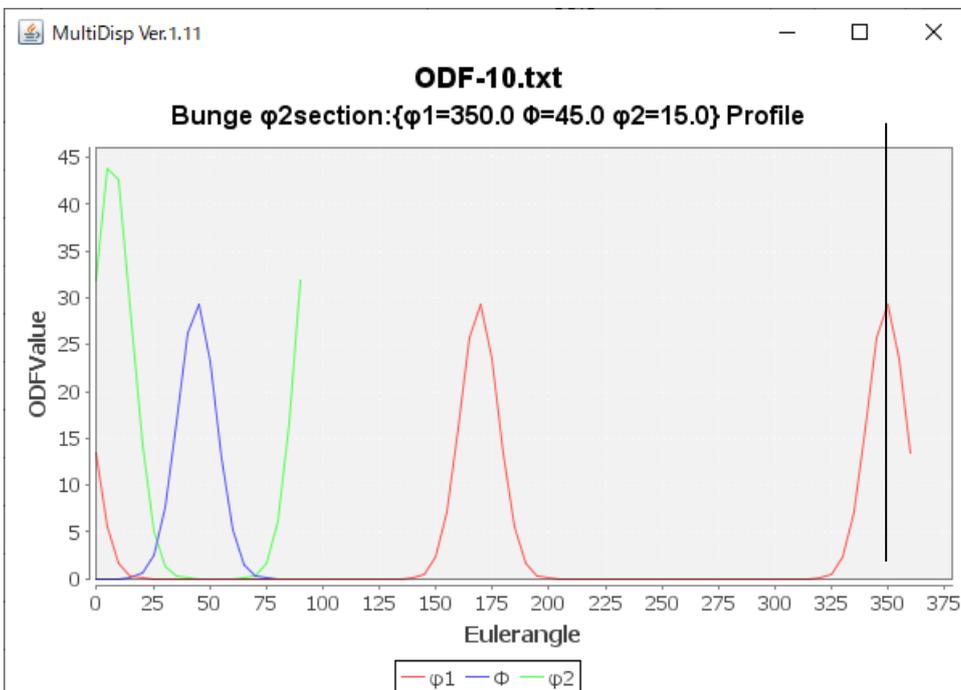
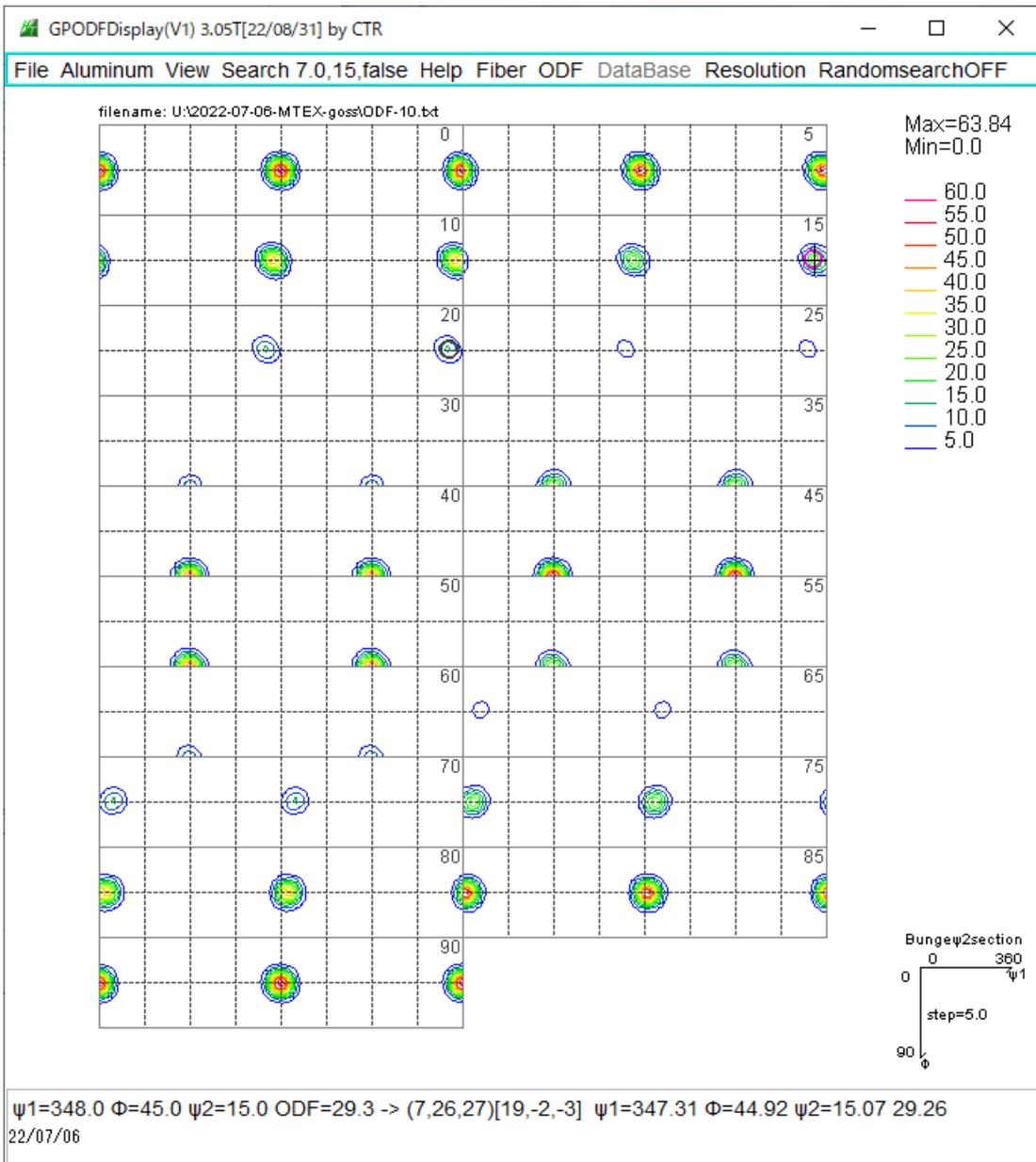
XX部分を5→50

```
odf= unimodalODF(Ori1,psi)
```

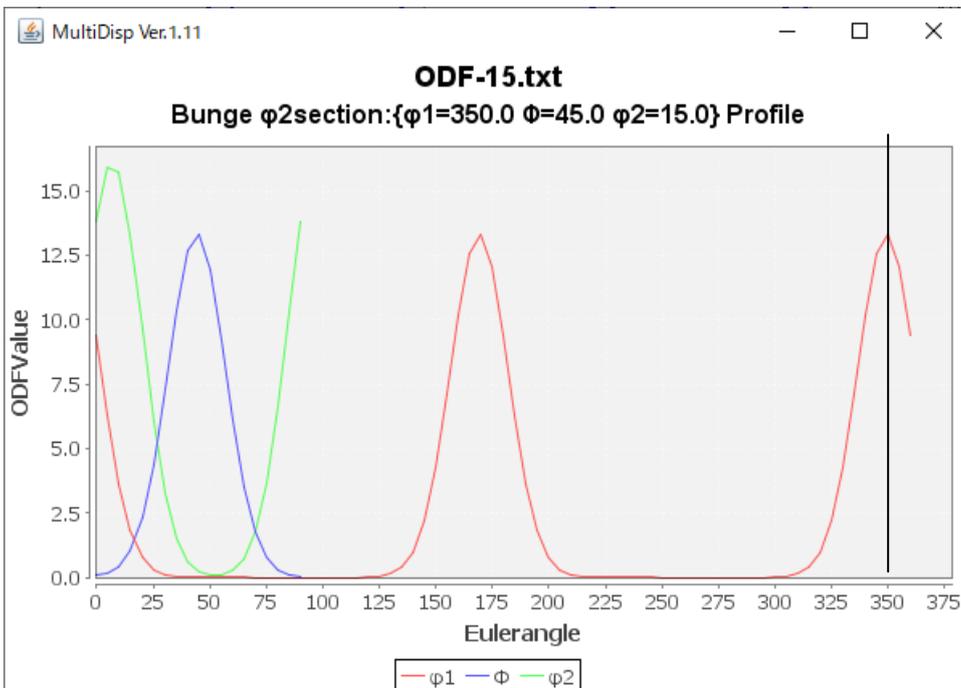
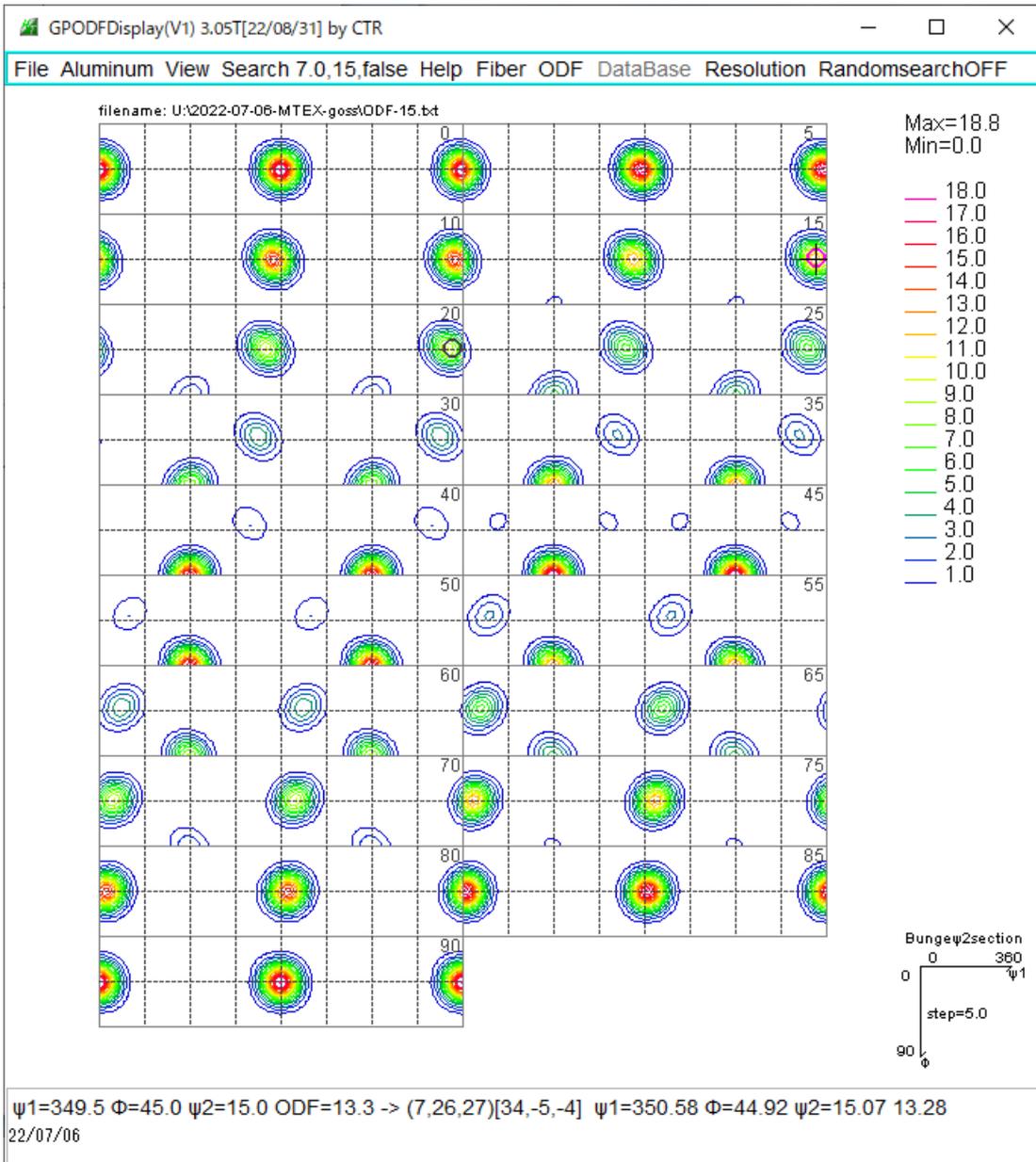
XX=5



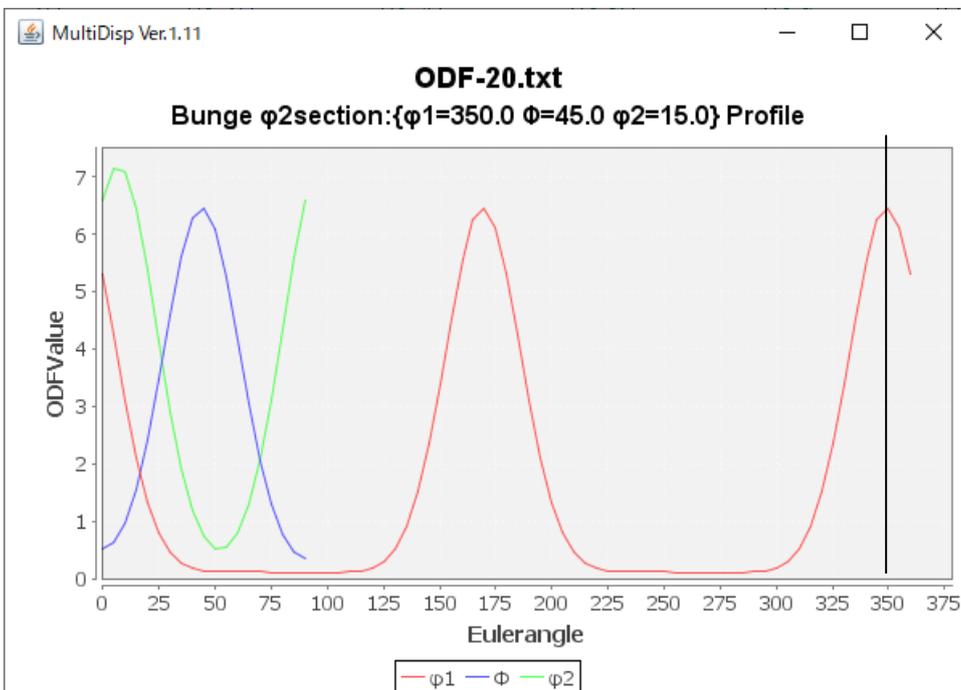
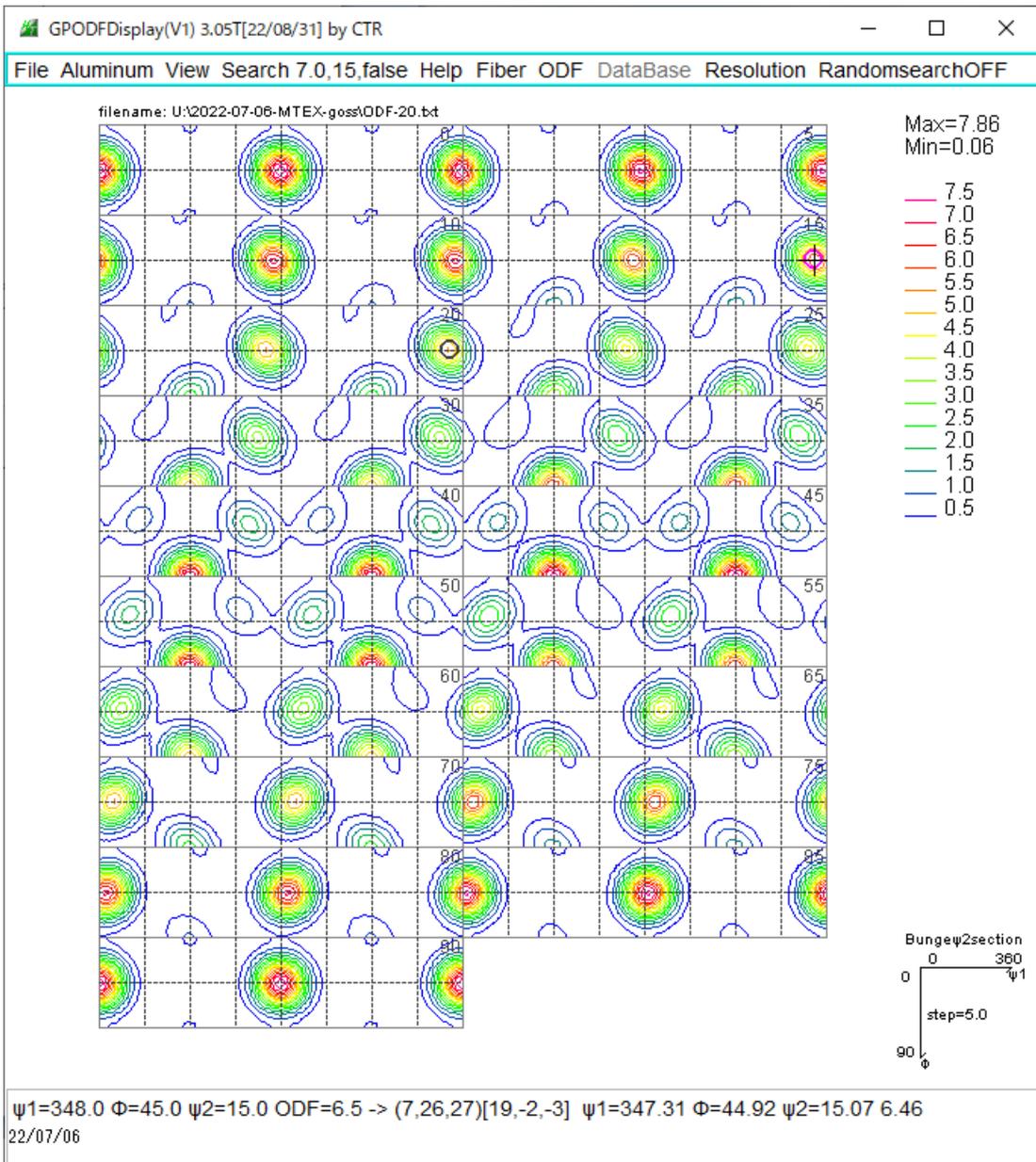
XX=10



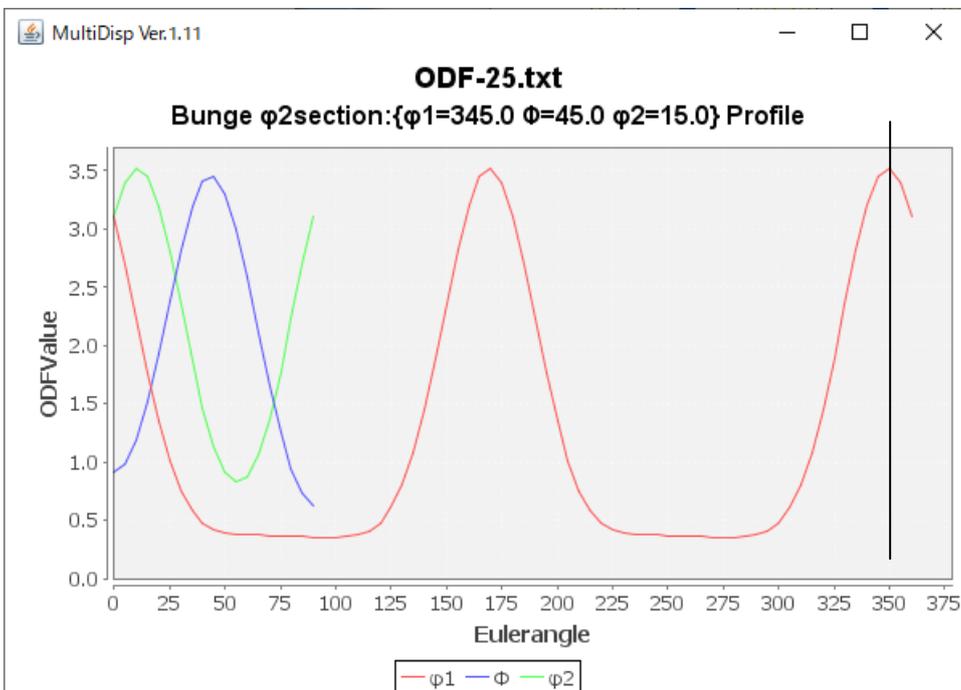
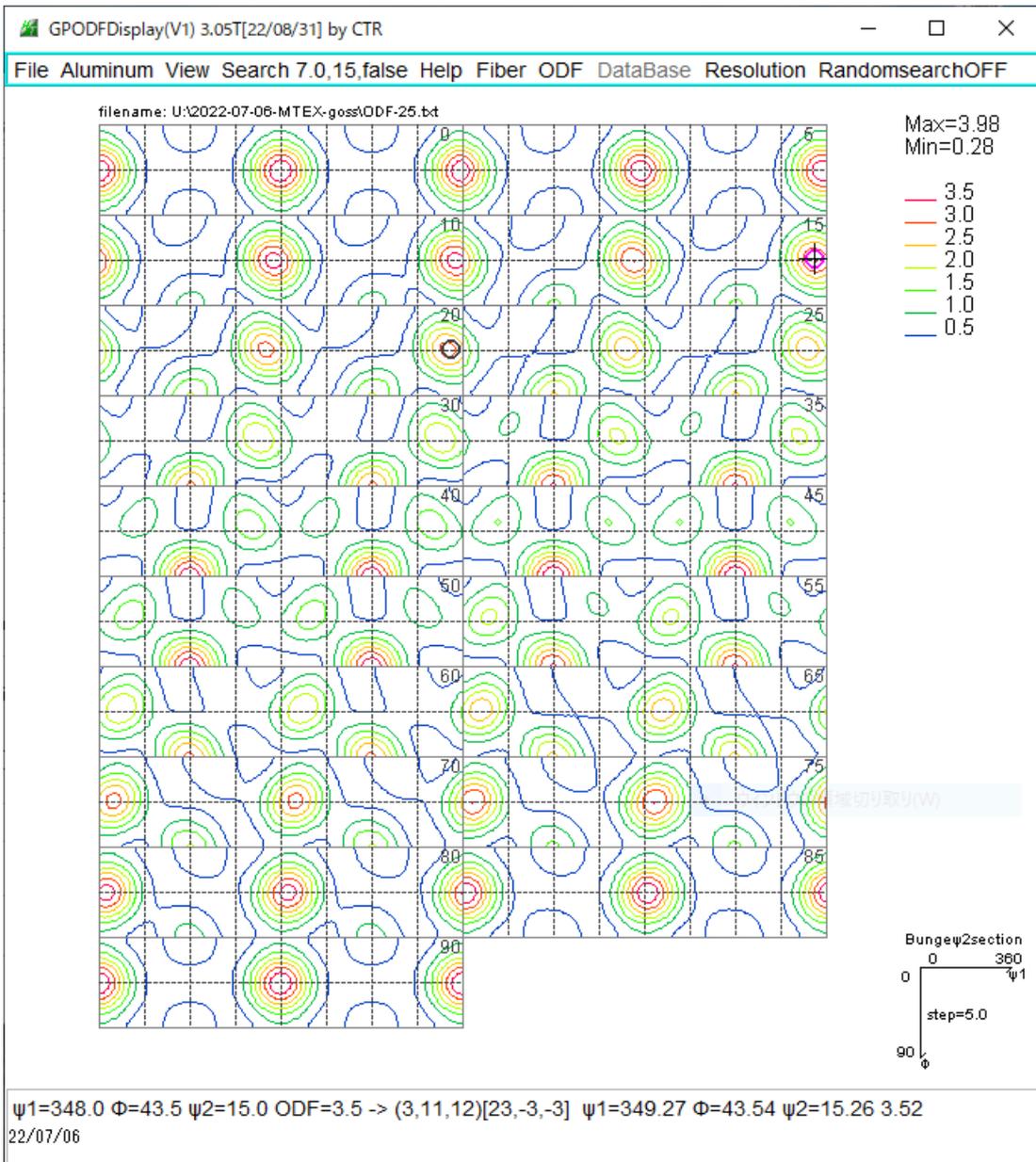
XX=15



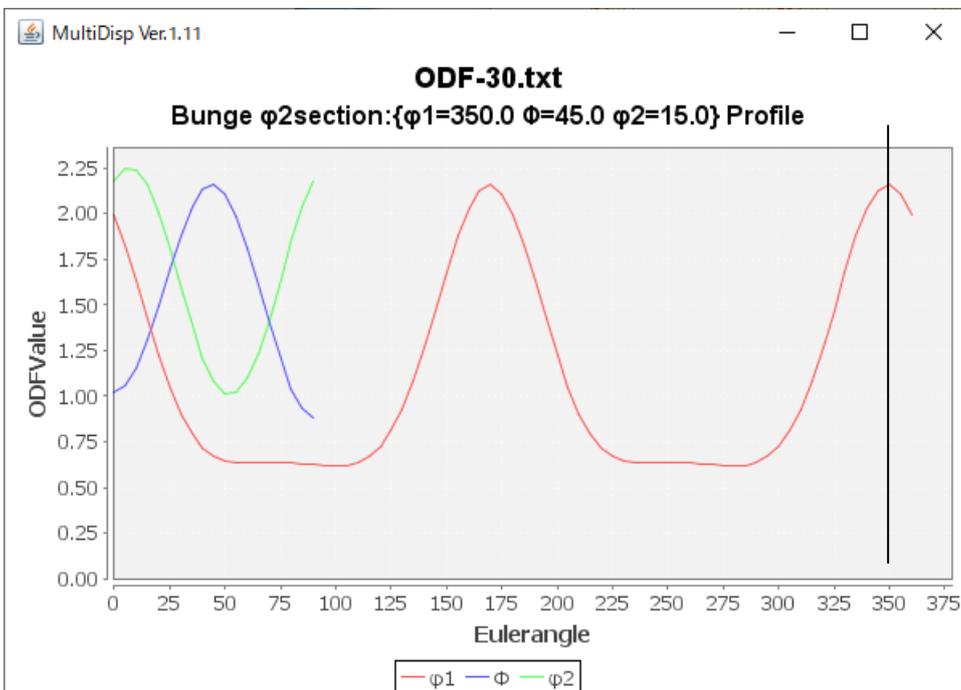
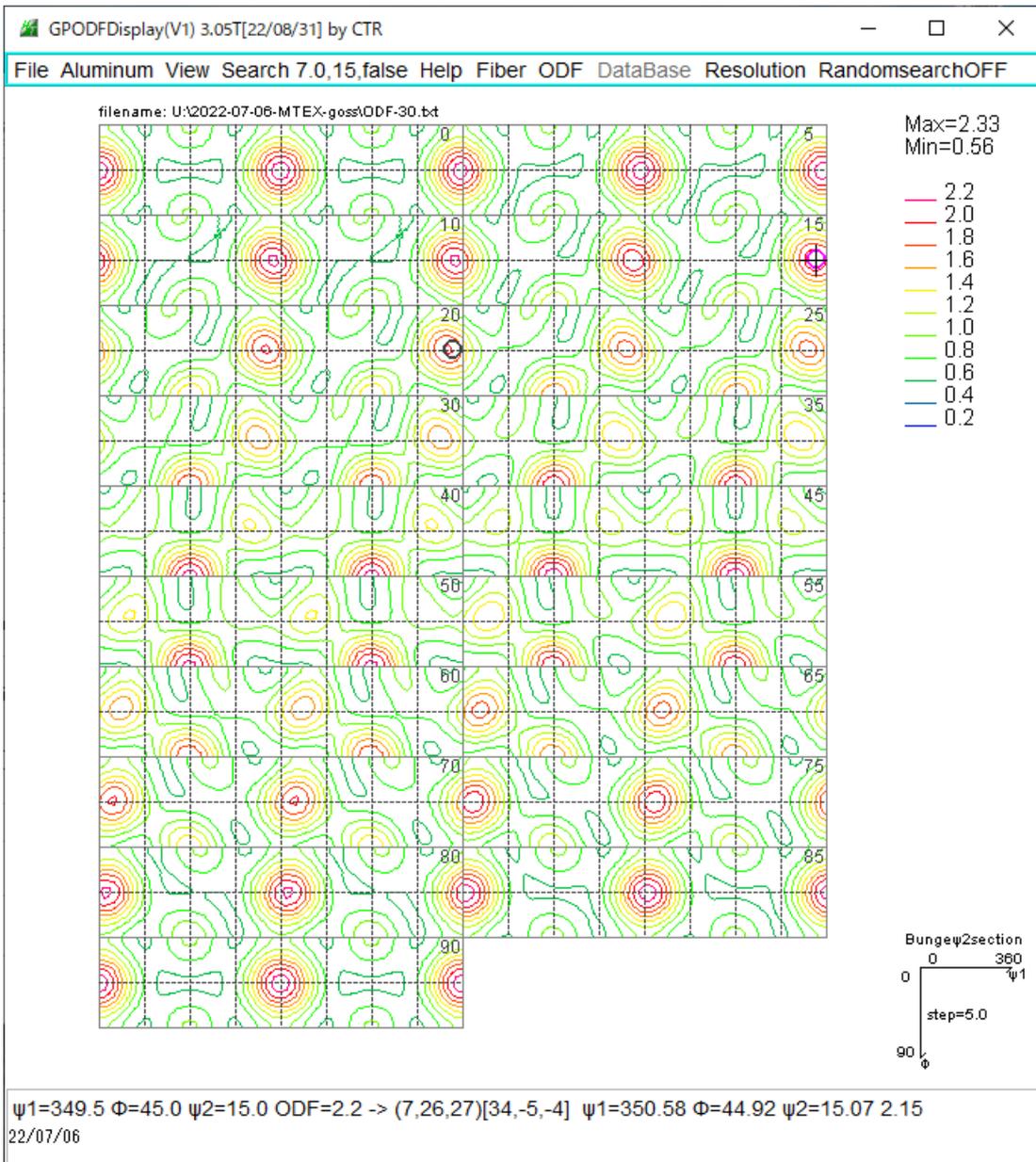
XX=20



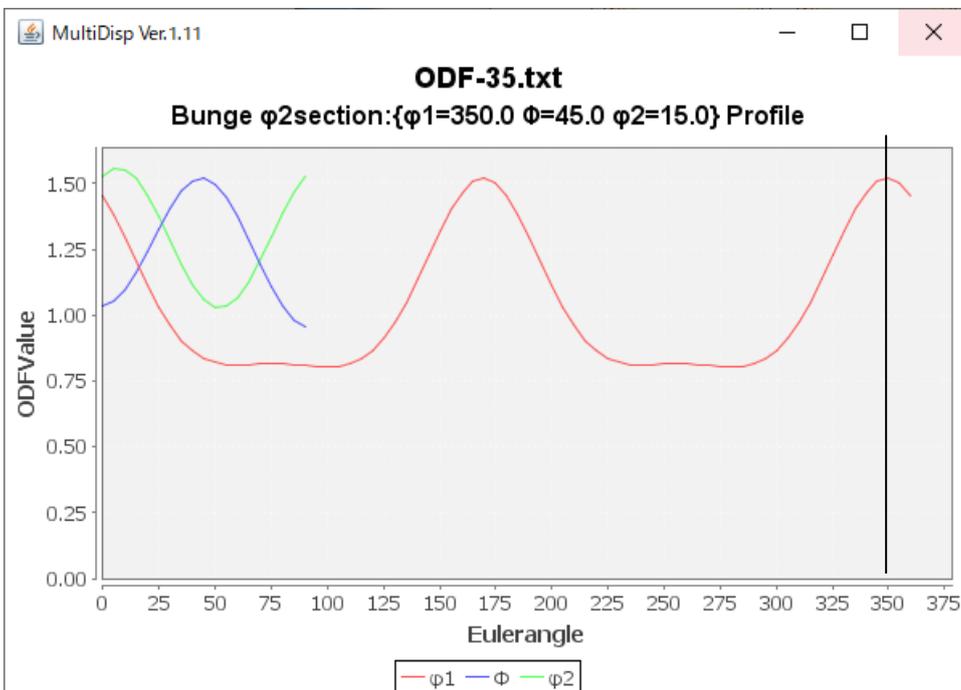
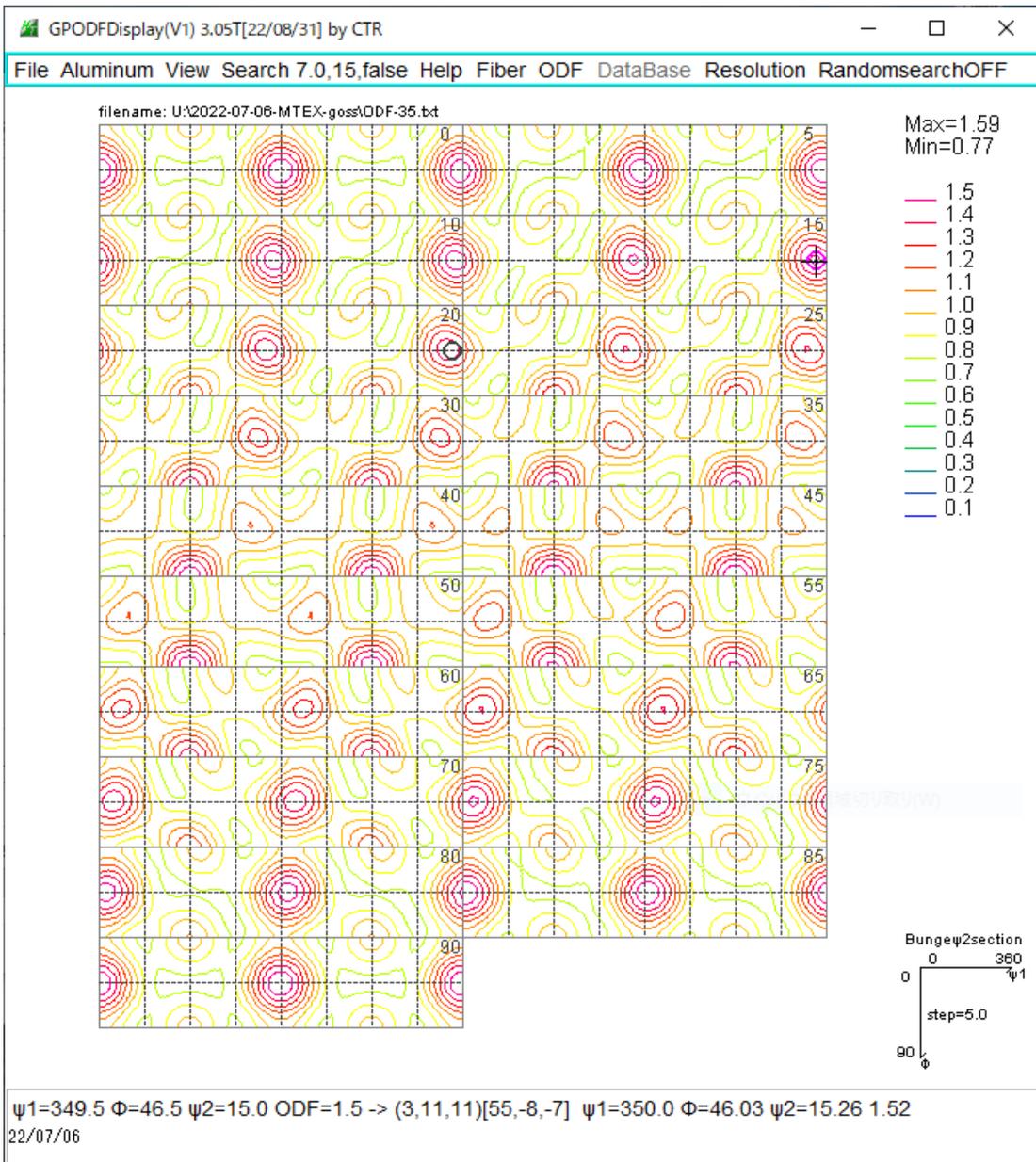
XX=25



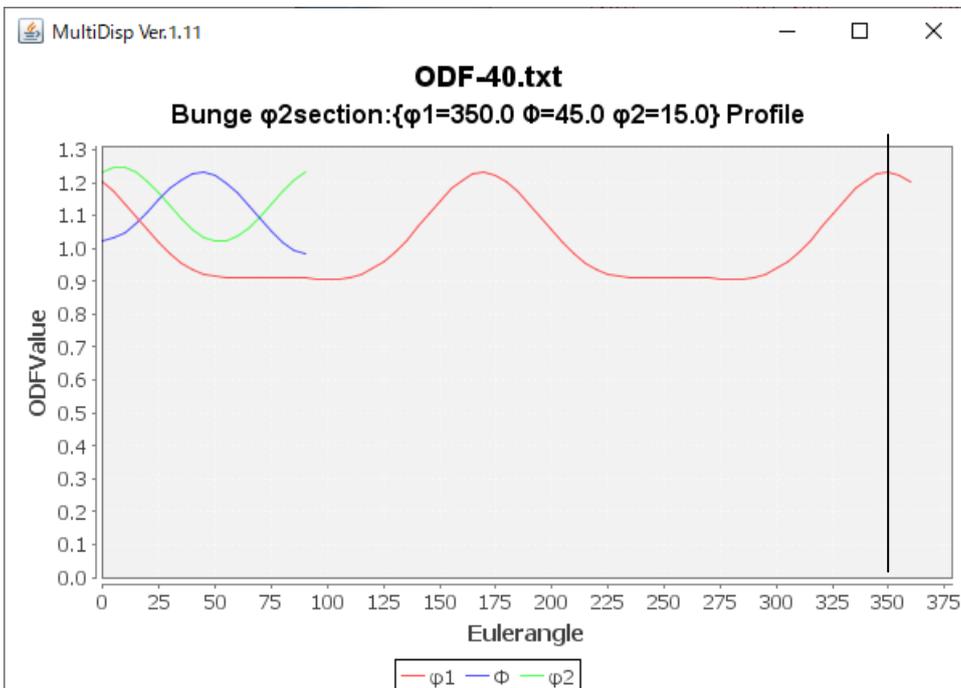
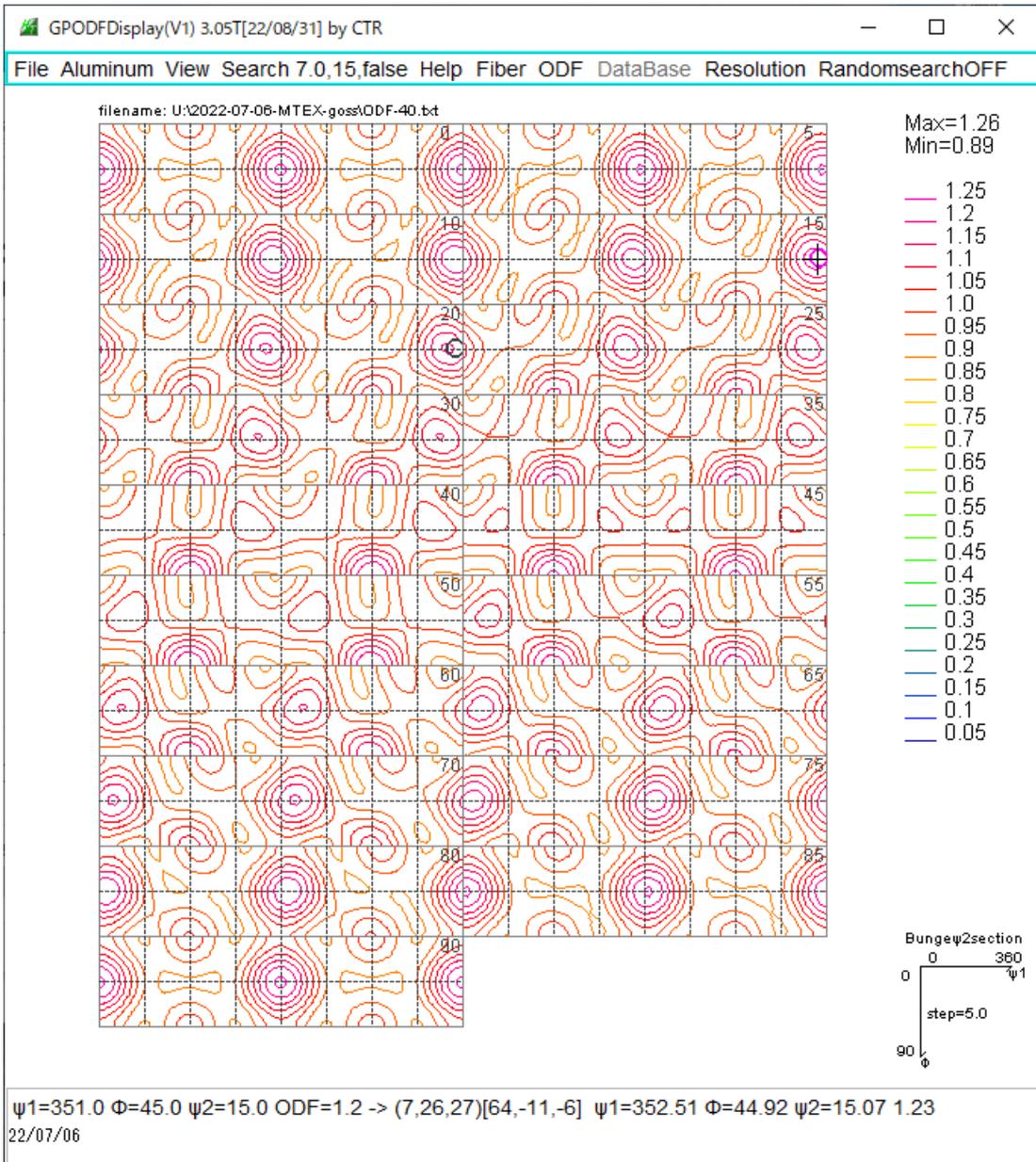
XX=30



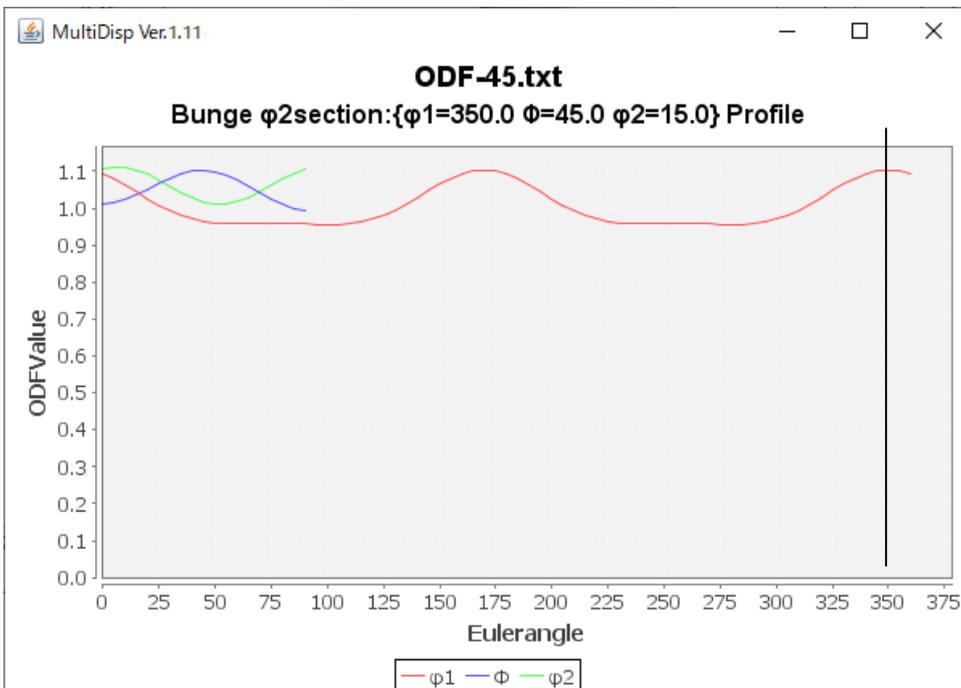
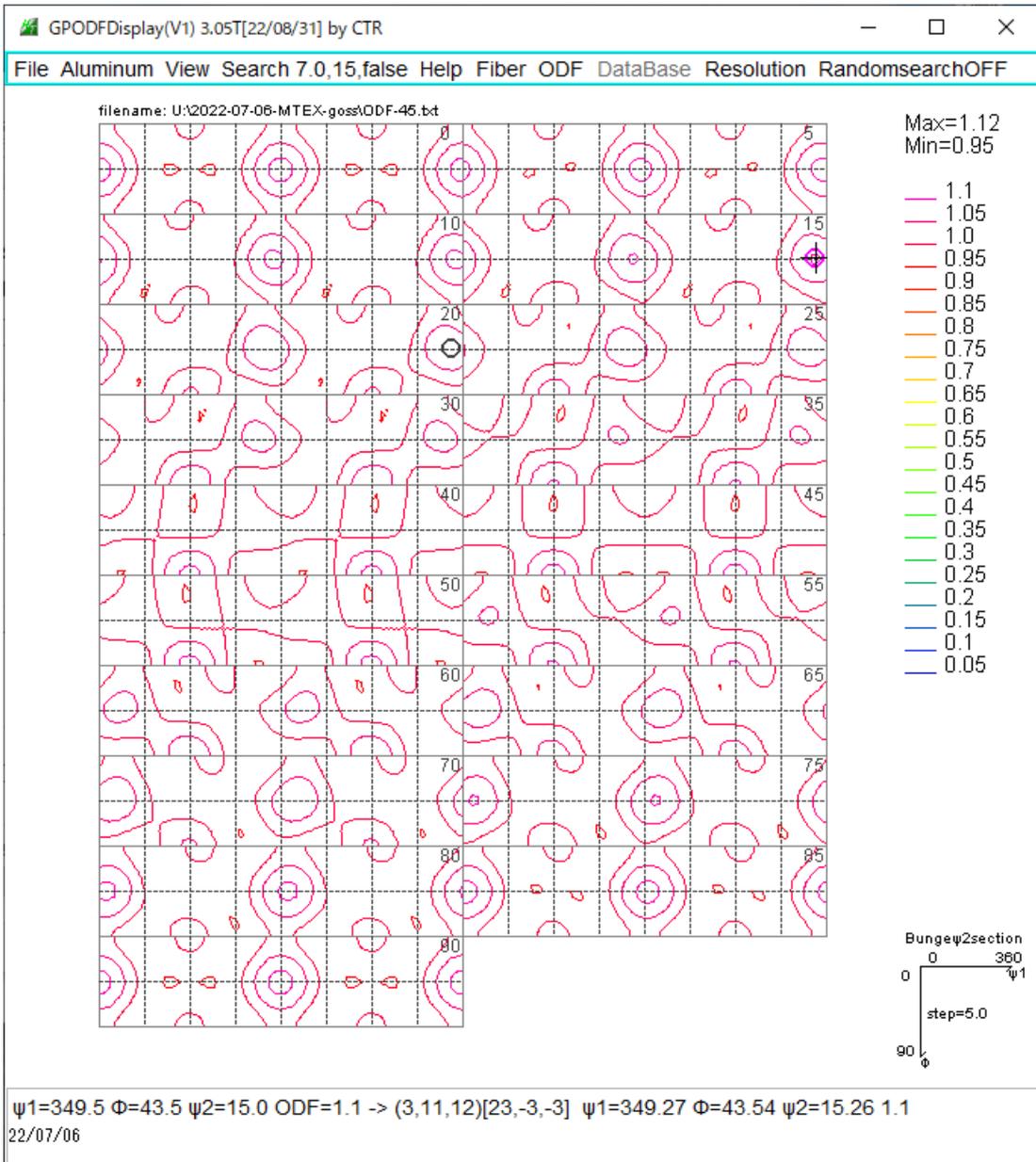
XX=35



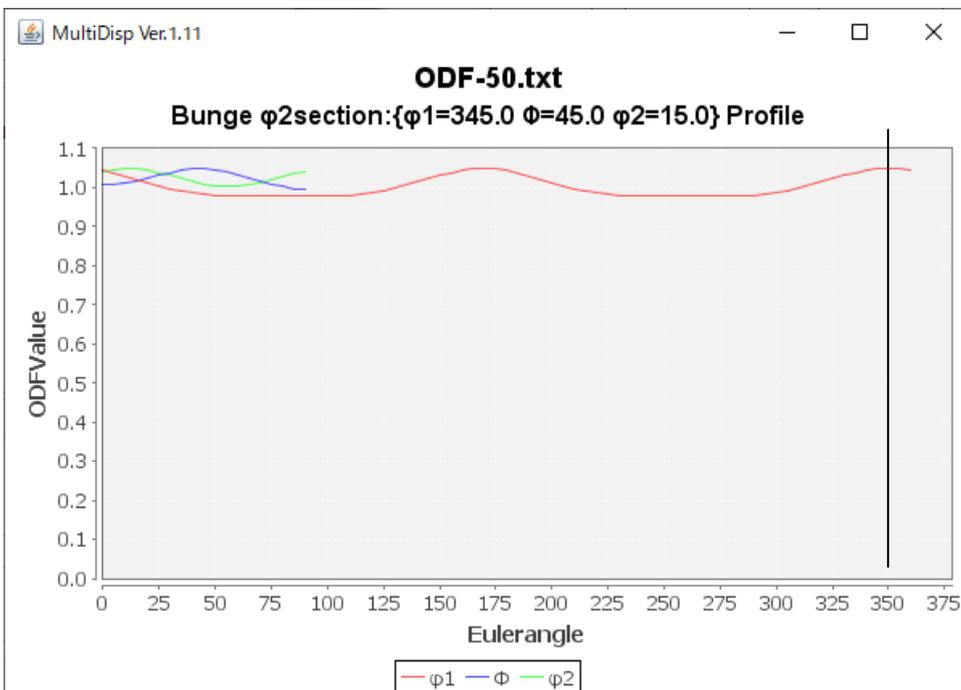
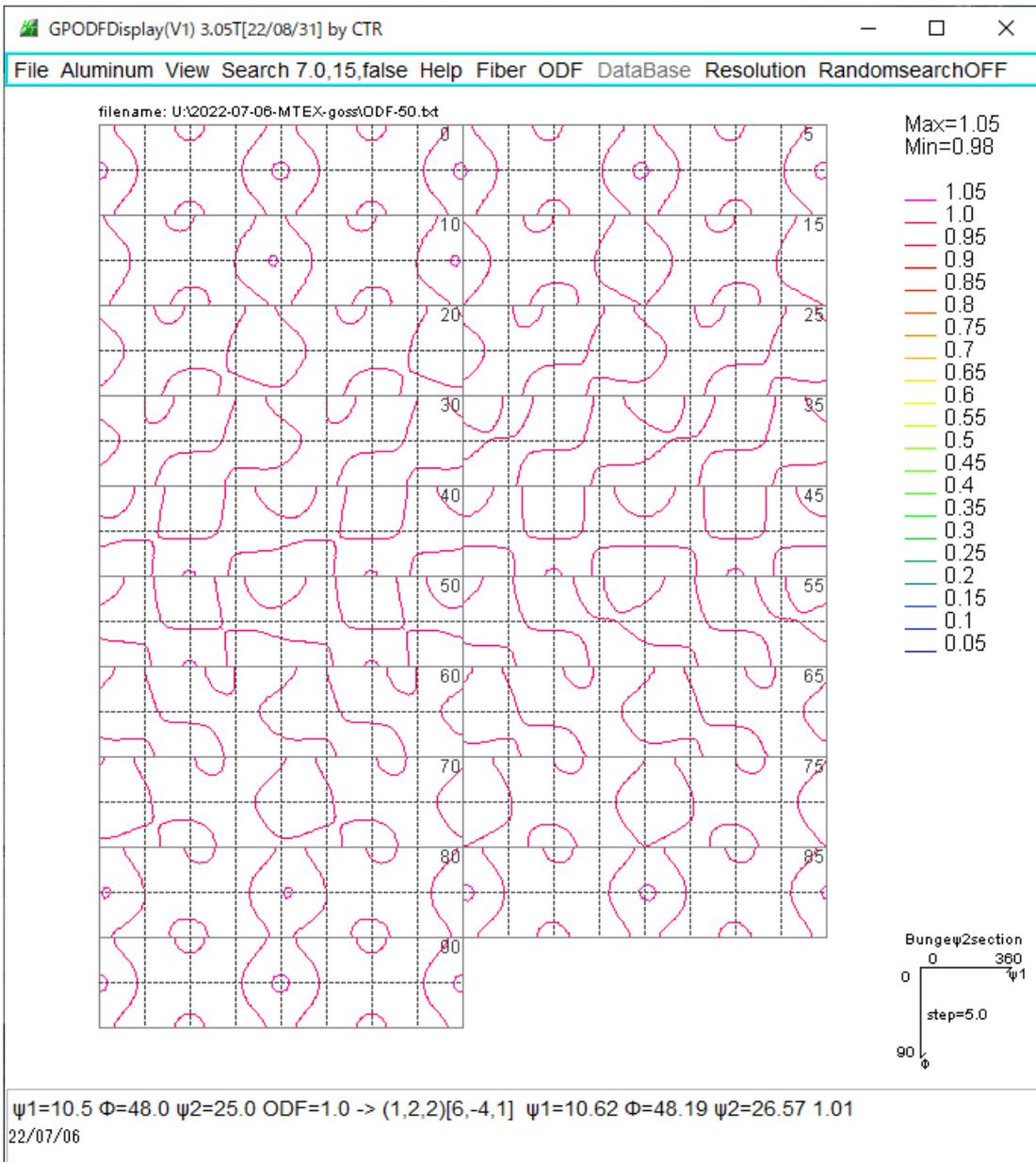
XX=40



XX=45



XX=50



まとめ

MTEXでは、 $\phi 2 = 15$ 図上の $\phi 1$ プロファイルの最大値位置は $\phi 1 = 350$ に現れる
FWHM を変えても幅が広がり密度は低下するが最大方位位置は変わらない。