

2.8 PPI: Plan Position Indicator

SIGMET, dry PPI Product Configuration: DEFAULT

File Menus Type Commands Help

TASK SUMMARY

TASK Name DSP Data

Scan Mode Max Range

Angle List El:One angle at 1.0

Map Projection ☐ Projection Name

PRODUCT PARAMETERS

Data:Display

Max Range

EL Angle

Clip Range

Clip Height

ZR relation

XY Smoother

DISPLAY PARAMETERS

Display Units

Color Scale ☐

Levels ☐

1st Level/Step

Resolution

This section describes the fields of the Product Configuration menu that are unique to PPI products. For general information, see these other sections of this chapter:

- Task Summary area, Section 2.1.1.
- Map Projection Area, Section 2.1.2
- Product Parameters, see Section 2.1.3.
- Display Parameters area, Section 2.1.4.

The PPI product shows the distribution of the selected data parameter on a constant elevation angle surface — the classic radar display. IRIS PPI products are made as soon as the requested elevation sweep is completed rather than at the end of a volume scan.

To open the PPI Product Configuration menu:

Choose **Type**→**PPI** from the menu bar.

PRODUCT PARAMETERS	
Data:Display	<input type="checkbox"/> dBZc:R
Max Range	<input type="text" value="100.0"/>
EL Angle	<input type="text" value="*"/>
Clip Range	<input type="text" value="0.0 km"/>
Clip Height	<input type="text" value="0.0 km"/>
ZR relation	<input type="checkbox"/> <input type="text" value="200 ** 1.60"/>
XY Smoother	<input type="text" value="1.0"/>

Data : Display

All base data types are available in the PPI product, plus you can convert to rainrate using input data of dBT, dBZ, dBZc, or Kdp.

Max Range

The “Max Range” means horizontal range along the earth below the PPI surface, and similarly in displays the range rings show the horizontal range.

EL Angle

The elevation angle of data you want to display. IRIS will find the nearest angle in the specified task. Typing in the value “*” indicates that you wish to run the PPI product on every sweep angle in the task.

Clip Range

This is a rarely used feature. The PPI product can be configured to truncate the data at a range which is shorter than the actual task configuration range. Possible uses are: It can improve a composite display by forcing the PPI into a circle rather than a square. It can restrict the area of coverage for a WARN, TRACK, or DWELL product. This is useful for algorithms such as bird tracking. Specifying zero disables the feature.

Clip Height

Same as Clip Range, except the range is specified as height.

ZR Relation

The ZR (reflectivity–rainfall rate) relation is used only if Rainrate (from dBT, dBZ, or dBZc) is specified as the data parameter. If you specify Rainrate from Kdp, then the label changes, and the KR relation is entered here.