

ctools - Bug #1440

Unable to make single map exposure cube

03/10/2015 09:33 PM - Knödseder Jürgen

Status:	Closed	Start date:	03/10/2015
Priority:	Normal	Due date:	
Assigned To:	Knödseder Jürgen	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:	1.0.0		
Description			
The following attempt to make a single map exposure cube does not succeed:			
<pre>\$ ctexpcube Event list or observation definition file [gps.xml] Calibration database [aar] Instrument response function [DESY20140105_50h] Lower energy limit (TeV) [0.02] 1.0 Upper energy limit (TeV) [100.0] 1.0 Counts cube for exposure cube definition [NONE] First coordinate of image center in degrees (RA or galactic l) (0-360) [0.0] Second coordinate of image center in degrees (DEC or galactic b) (-90-90) [0.0] Projection method (AIT AZP CAR MER MOL STG TAN) [CAR] Coordinate system (CEL - celestial, GAL - galactic) (CEL GAL) [GAL] Image scale (in degrees/pixel) [0.02] Size of the X axis in pixels [18000] Size of the Y axis in pixels [500] Number of energy bins [20] 1 *** ERROR encountered in the execution of ctexpcube. Run aborted ... *** ERROR in GSkymap::nmaps(int&): Invalid argument. At least one map is required in an GSkymap object. Please specify an argument >=1.</pre>			
Related issues:			
Related to GammaLib - Change request # 1441: Change GEbounds handling of empt...		Closed	03/10/2015

History

#1 - 03/10/2015 09:33 PM - Knödseder Jürgen

- Target version set to 1.0.0

#2 - 03/10/2015 10:00 PM - Knödseder Jürgen

The culprit is here:

```
void GEbounds::append(const GEnergy& emin, const GEnergy& emax)
{
    // Continue only if energy interval is valid
    if (emax > emin) {

        // Insert interval
        insert_eng(m_num, emin, emax);

    } // endif: Energy interval was valid

    // Return
    return;
}
```

The logic implemented in GEbounds does not allow appending of empty energy boundaries.

#3 - 03/10/2015 11:09 PM - Knödseder Jürgen

- *Status changed from New to Resolved*

- *Assigned To set to Knödseder Jürgen*

Solved by #1441.

#4 - 06/29/2015 11:17 PM - Knödseder Jürgen

- *Status changed from Resolved to Closed*