GammaLib - Feature #903

Implement a sky region class

06/21/2013 04:59 PM - Martin Pierrick

Status:	Closed		**Start date:**	10/09/2012
Priority:	Normal		**Due date:**	
Assigned To:	Martin Pierrick		**% Done:**	27%
Category:			**Estimated time:**	0.00 hour
Target version:	HESS sprint #1			

Description

The context of this task is the extension of the gammalib to allow the analysis of data from Cherenkov telescopes in a way currently adopted by the HESS/VERITAS/MAGIC collaborations: the ON and OFF technique, which can be used in different ways. As a first step, we focus on the spectral analysis of a source observed i wobble mode, with the reflected region background evaluation method (see Berge et al. 2007).

A first step toward this is to implement a class to define regions over the sky. Following some discussion, three class headers have been written:
- An abstract class interface GSkyRegion
- A derived class GSkyRegionCircle for a circular region
- A sky region container GSkyRegions
These are very likely perfectible and the immediate objective is to refine the interface and fill in their functionalities during the coding sprint to be held in Toulouse on 24-28 June 2013.

The philosophy is explained in the comment section of each class header, which also contains a list of points to be clarified/discussed.

Note: a related wiki started some time ago is [[GRegion]]

Subtasks:

Action # 557: Implement derived GRegion classes	**Rejected**
Action # 553: Define interface for region classes.	**Rejected**
Action # 556: Implement GRegion virtual base class	**Rejected**
Action # 555: Implement GRegions class.	**Rejected**
Action # 554: Write test case for region classes.	**Rejected**
Action # 535: Preliminary discussion	**Closed**
Action # 904: Implement GSkyRegion abstract class	**Closed**
Action # 905: Implement GSkyRegionCircle derived class	**Closed**
Action # 918: Implement GSkyRegionCircle unit test	**Closed**
Action # 919: Implement GSkyRegions unit test	**Closed**
Action # 906: Implement GSkyRegions container class	**Closed**

History

#1 - 06/23/2013 02:38 PM - Martin Pierrick

- Due date set to 06/23/2013

due to changes in a related task

#2 - 06/23/2013 04:25 PM - Martin Pierrick

- Description updated

#3 - 11/03/2013 02:07 AM - Knödlseder Jürgen

- Status changed from New to Closed

Files

GSkyRegion.hpp	5.88 KB	06/21/2013	Martin Pierrick
GSkyRegionCircle.hpp	5.65 KB	06/21/2013	Martin Pierrick
GSkyRegions.hpp	6.53 KB	06/21/2013	Martin Pierrick