Update to References

Information on the changes to references in HDF5-1.12 can be found below:

- Description
- HDF5 Library APIs
- RFC

Description

The H5R APIs were extended in HDF5-1.12 to support external references and attributes and to support the Virtual Object Layer (VOL). Several functions were introduced:

- Create (H5R_CREATE*) functions were added for each reference type (attribute, object, dataset region).
- A function was added to release a reference (H5R_DESTROY). This is required because a region reference no longer modifies the original file.
- Functions were added to query references (H5R_GET*).
- Other functions were added to simplify or clarify the API.

See the RFC for details on the changes that were made.

HDF5 Library APIs

The H5R functions that were introduce in HDF5-1.12 are described below.

Function	Description
H5R_COPY	Copies an existing reference
H5R_CREATE_ATTR	Creates an attribute reference
H5R_CREATE_OBJECT	Creates an object reference
H5R_CREATE_REGION	Creates a region reference
H5R_DESTROY	Closes a reference
H5R_EQUAL	Determines whether two references are equal
H5R_GET_ATTR_NAME	Retrieves the attribute name for a referenced object
H5R_GET_FILE_NAME	Retrieves the file name for a referenced object
H5R_GET_OBJ_NAME	Retrieves the object name for a referenced object
H5R_GET_OBJ_TYPE3	Retrieves the type of object that an object reference points to
H5R_GET_TYPE	Retrieves the type of reference
H5R_OPEN_ATTR	Opens the referenced HDF5 attribute
H5R_OPEN_OBJECT	Opens the referenced HDF5 object
H5R_OPEN_REGION	Sets up a dataspace and selection as specified by a region reference