

## **ReadMe File for CGATS.17-2005 Demonstration Suite**

As part of the CGATS.17-2005 development, a number of machine readable support documents have been created. These include an xml schema, xml dtd, xslt style sheet, and series of equivalent ASCII and xml document instances.

The xml schema (cgats\_data.xsd) is based on the xml dtd (cgats\_data.dtd). It was automatically created with a translation program. No attempt was made to implement any of the specific restrictions from CGATS.17-2005 except those that were included in the written specification. All PCDATA is assumed to be ISO 646. The processing application will need to provide any required data conversion. Note that both the schema and dtd are designed to support multiple CGATS data standards. The schema and dtd will change when (if) these are developed. The xml subtree for CGATS.17-2005 will always follow the written specification.

The xslt style sheet (cgats17.xsl) provides a good conversion from an xml formatted file to the ASCII equivalent. If the style sheet is used to convert an xml file back to an ASCII file for use by older applications there may be an issue with string data in a table. The style sheet does not reference the data definitions for the table. All data with an embedded white space character is surrounded by double quotes ("). String data that does not contain embedded white space may appear unquoted. Users of this style sheet should post visually process the result file to verify that all string data is appropriately quoted. A batch file (cgats17.bat) is also provided for use with the MS Windows version of xalan.

An application to convert the existing ASCII formatted files to xml is not provided with this suite. At least one such application was developed as part of the document creation process.

The demonstration suite provides a number of files that can be used by developers as part of the testing and development process for CGATS.17-2005. There is no assumption that the demonstration files cover all aspect of CGATS.17-2005. All files have been verified and are believed to be accurate. The files provided are:

ASCII	xml
cgats17.dat	cgats17.xml
e1200106_q60.dat	e1200106_q60.xml
r1200006_q60.dat	r1200006_q60.xml
sf1.dat	sf1.xml
sf2.dat	sf2.xml
sf3.dat	sf3.xml
steele_test.dat	steele_test.xml

The sf1, sf2, and sf3 files can also be found in Annex C of CGATS.17-2005

For more information on the documents in the demonstration suite and the processes involved in their creation contact John W. Iobst at NAA (iobsj@naa.org).