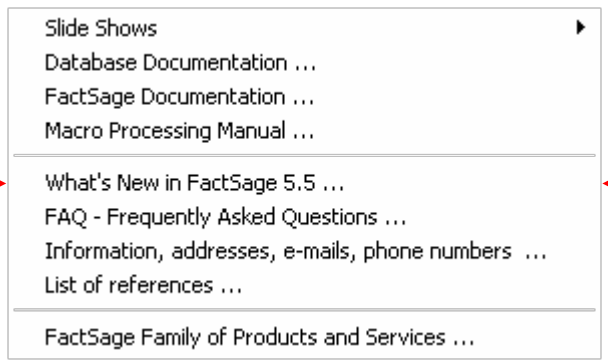
FactSage Browser

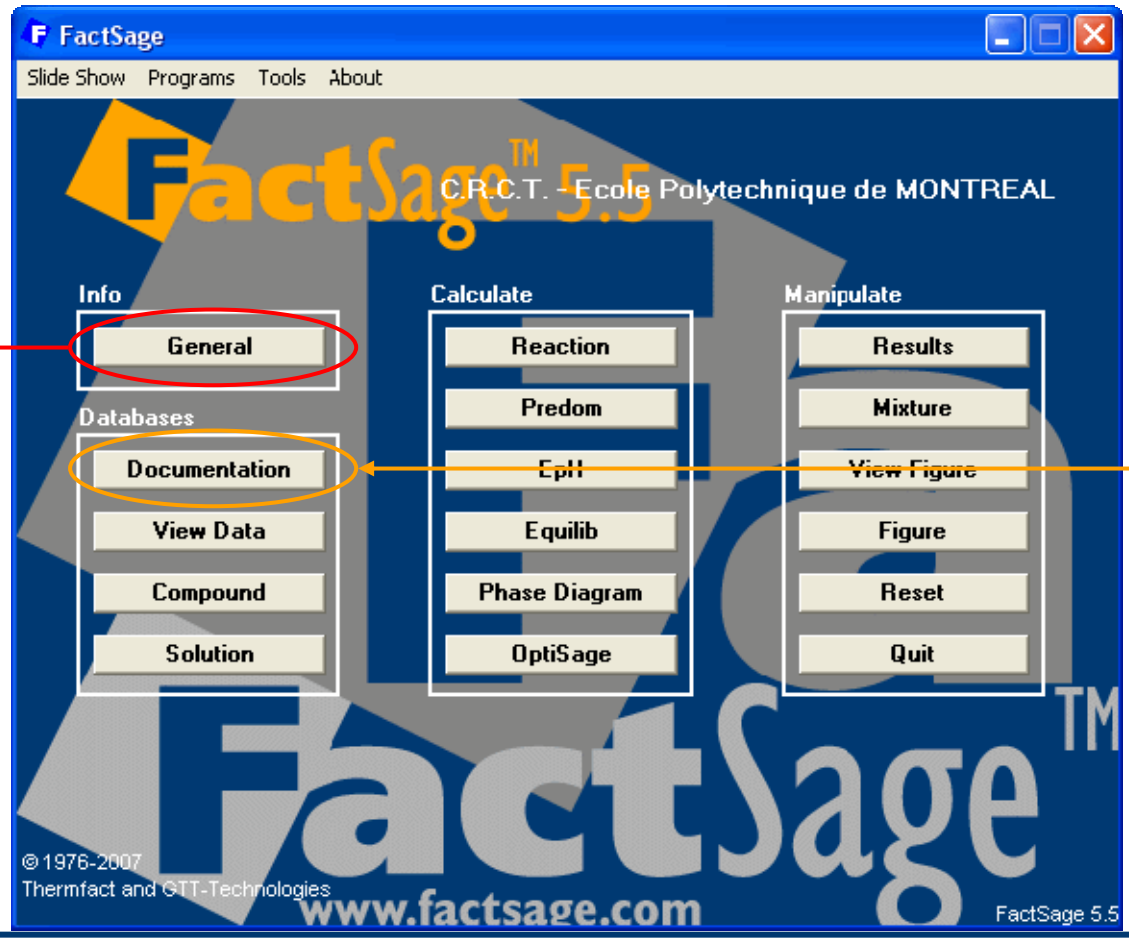
the navigation tool for

Database Documentation

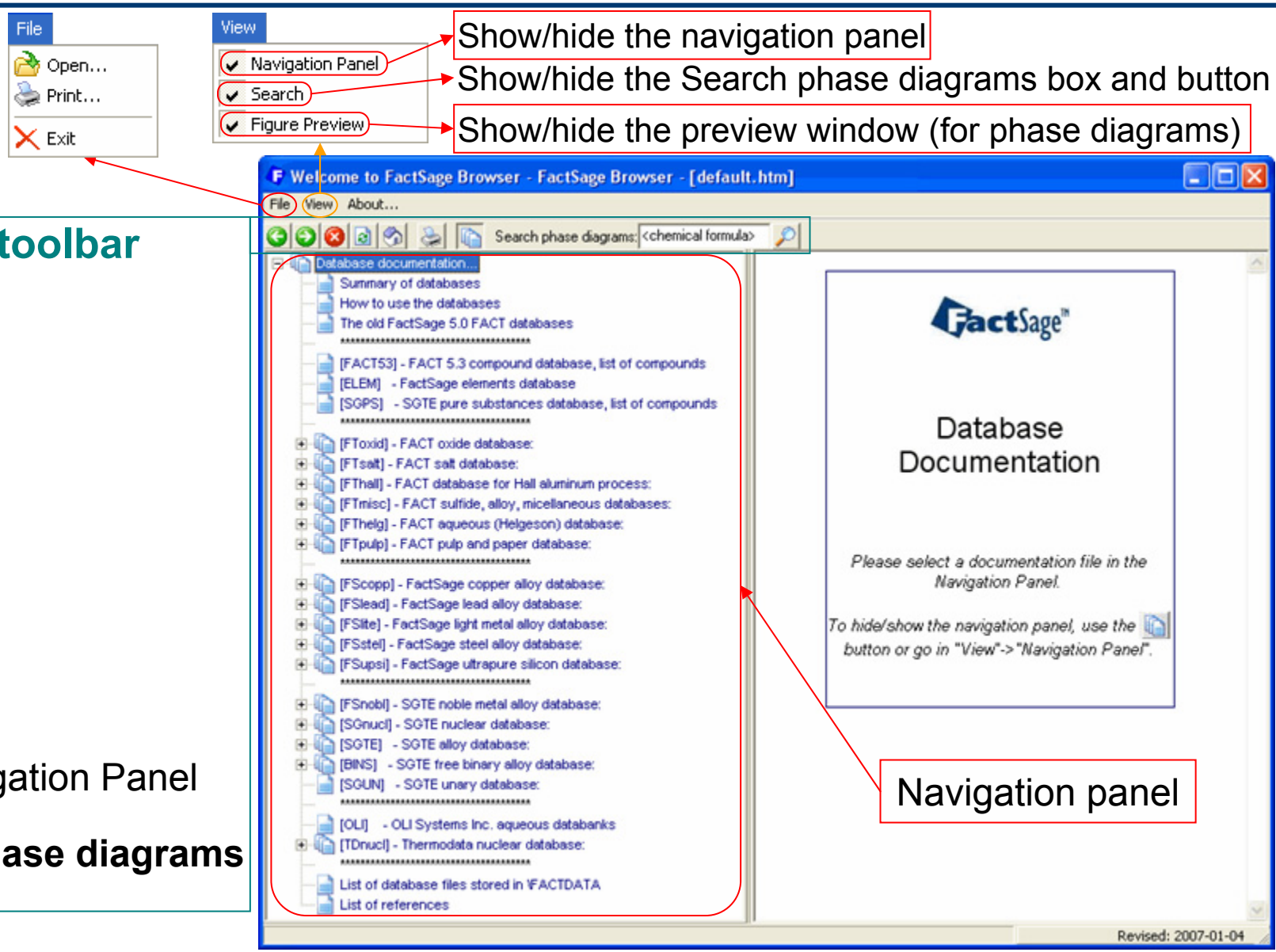
Accessing Database Documentation

Click on **Info, General > Database Documentation …** or on **Databases, Documentation** or select **Programs > Documentation** from the Menu bar to access the database documentation via the ***FactSage Browser*** navigation tool.





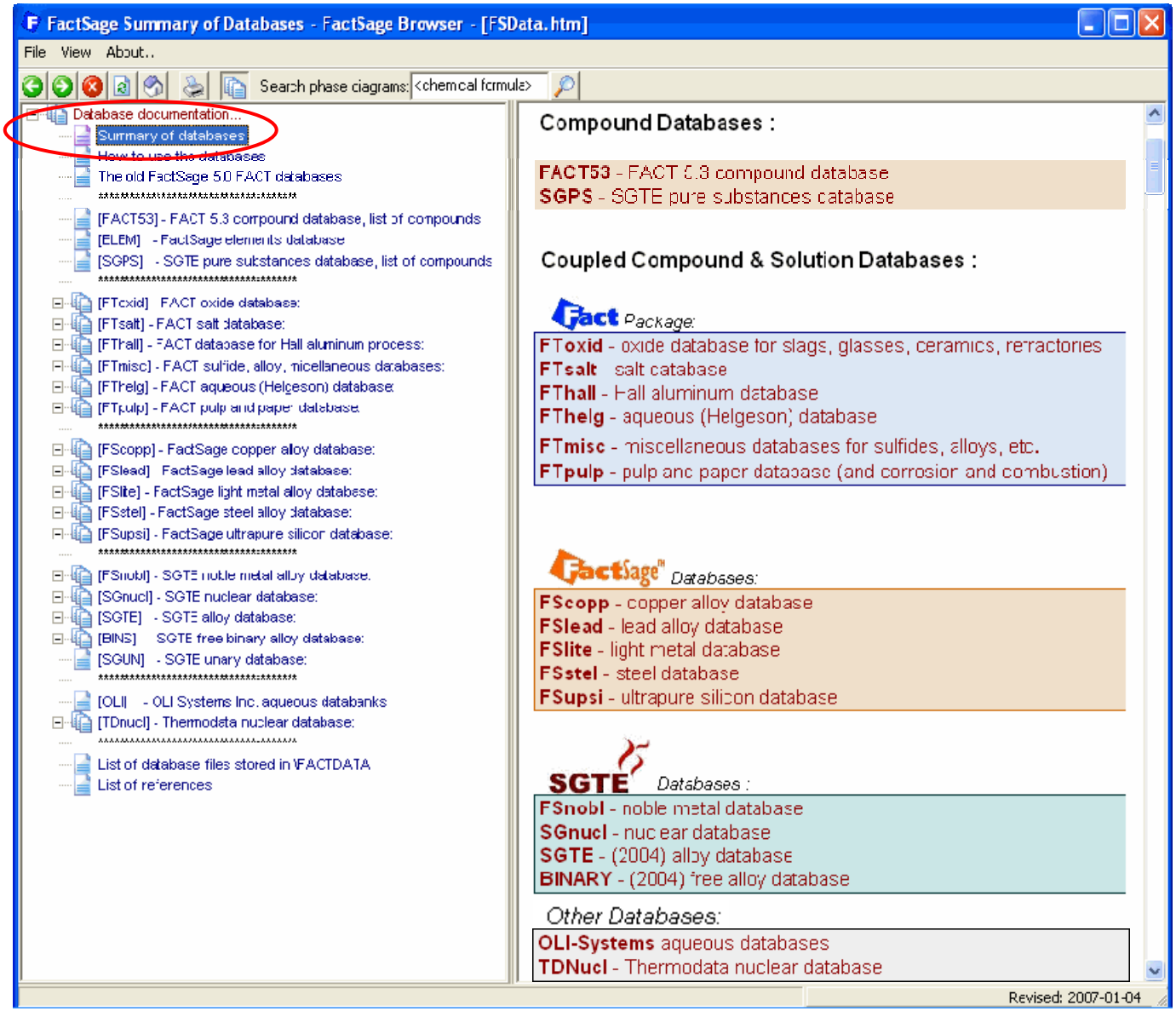
The *FactSage Browser*



Navigation toolbar

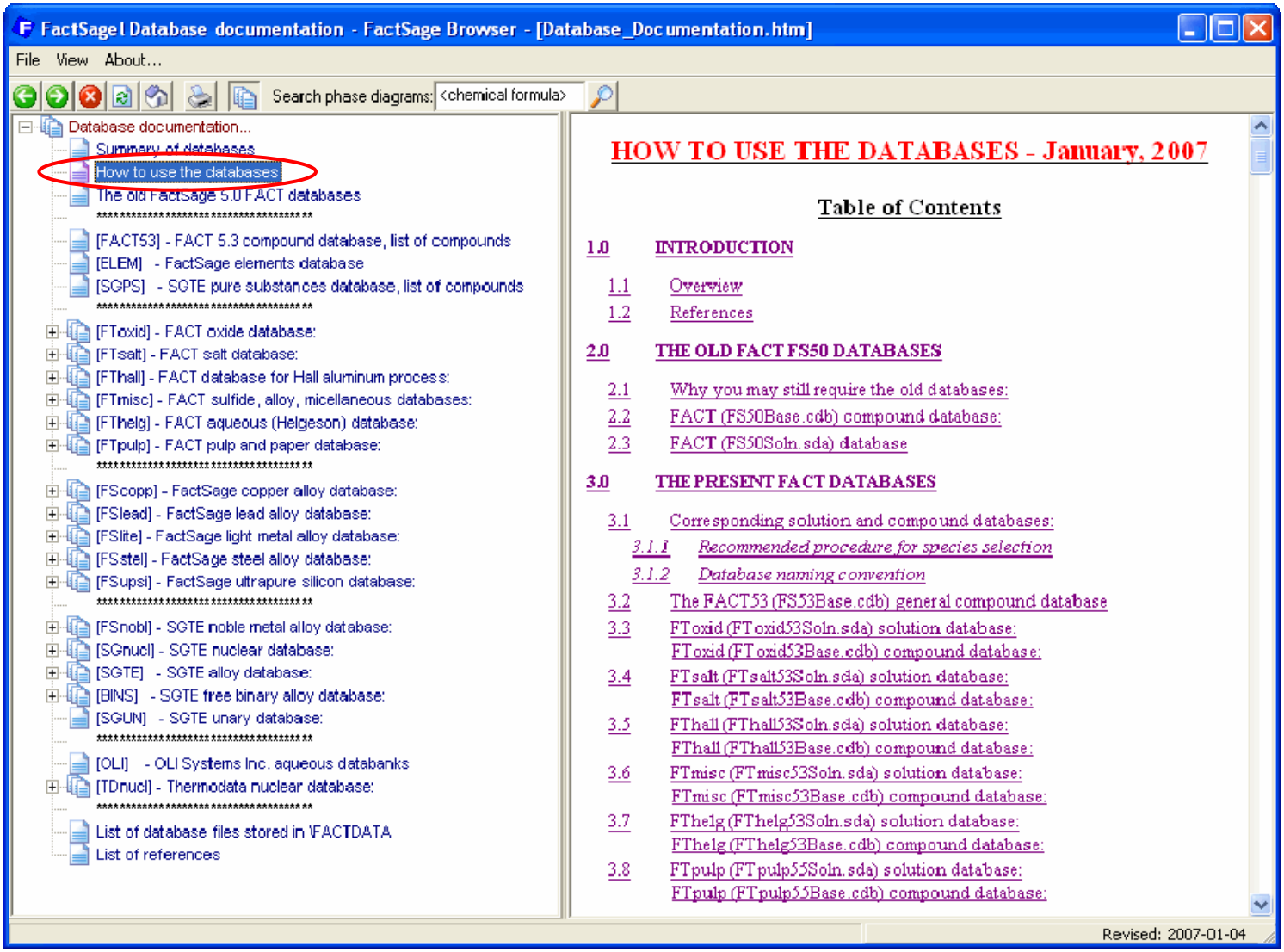
- Back
- Forward
- Stop
- Refresh
- Home
- Print
- View Navigation Panel
- **Search phase diagrams**

Summary of Databases



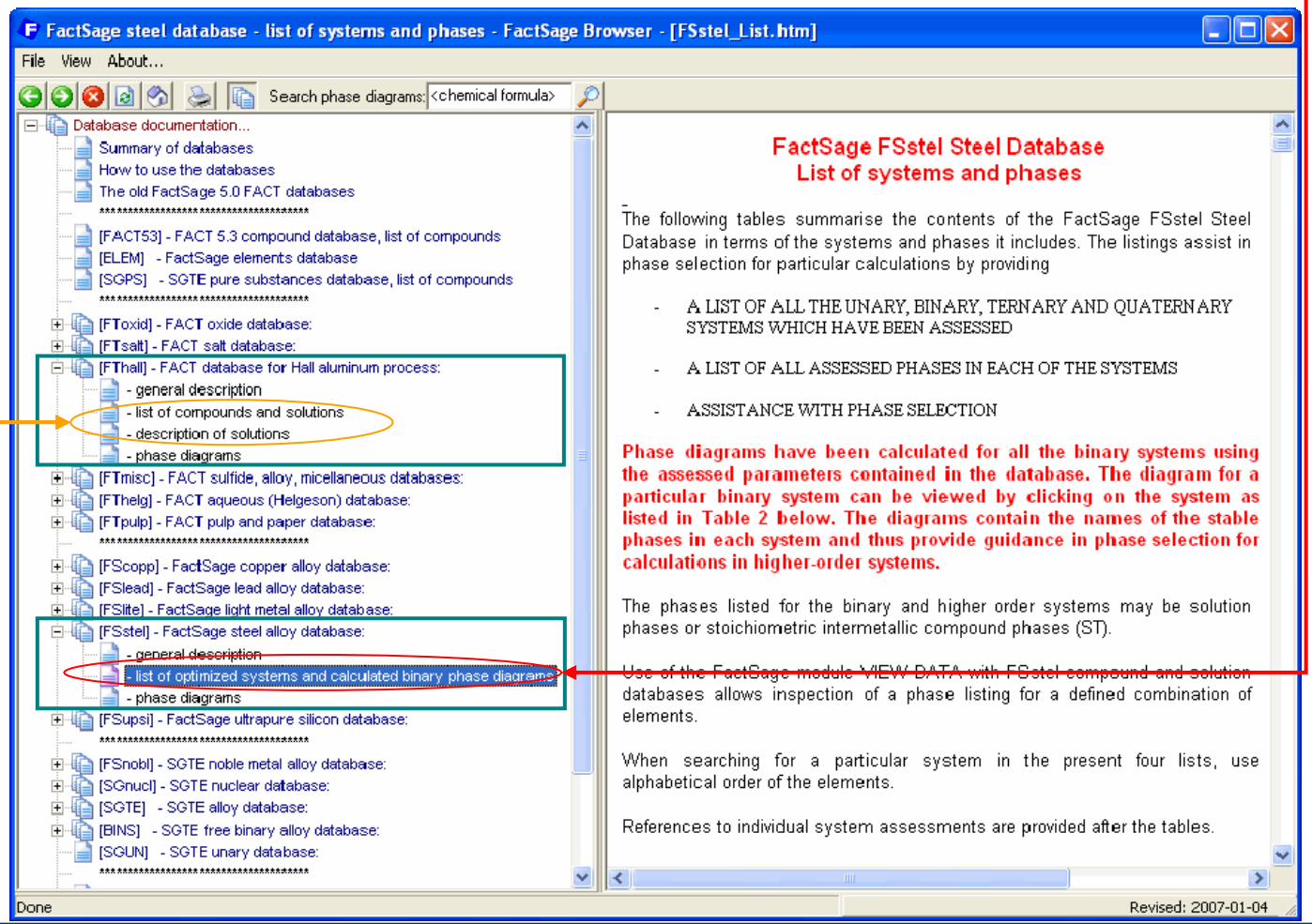
How to use the *databases* with *FactSage*

This section is for both ***beginners*** and ***experienced*** users.



Expanded tree view for a database

- general description
- list of compounds and solutions
  or list of optimized systems and calculated binary phase diagrams
- description of solutions
- phase diagrams



List and Preview

There are lists of optimized binary phase diagrams complete with the phase selection and a preview of the phase diagram (option **View > Preview Figure** checked).

FactSage steel database - list of systems and phases - FactSage Browser - [FSstel_List.htm]

File View About...

Search phase diagrams: <chemical formula>

Table 2: List of phases for BINARY systems

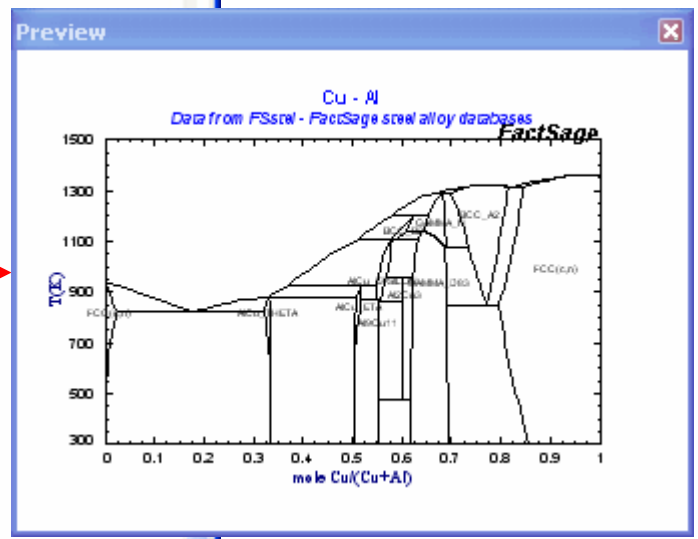
Complete assessments are available for the systems listed below.
Click on the system name to view the stable phase diagram calculated with the stored parameters.

Phases accompanied by ST in parenthesis indicate a stoichiometric phase. These phases must be selected from the FSstel compound base.

(I-option) – the phase displays a miscibility gap or is an ordered phase; selection with the I-option required.
(J-option) – the phase displays 2 miscibility gaps or special ordering effects and must be selected with the J-option.

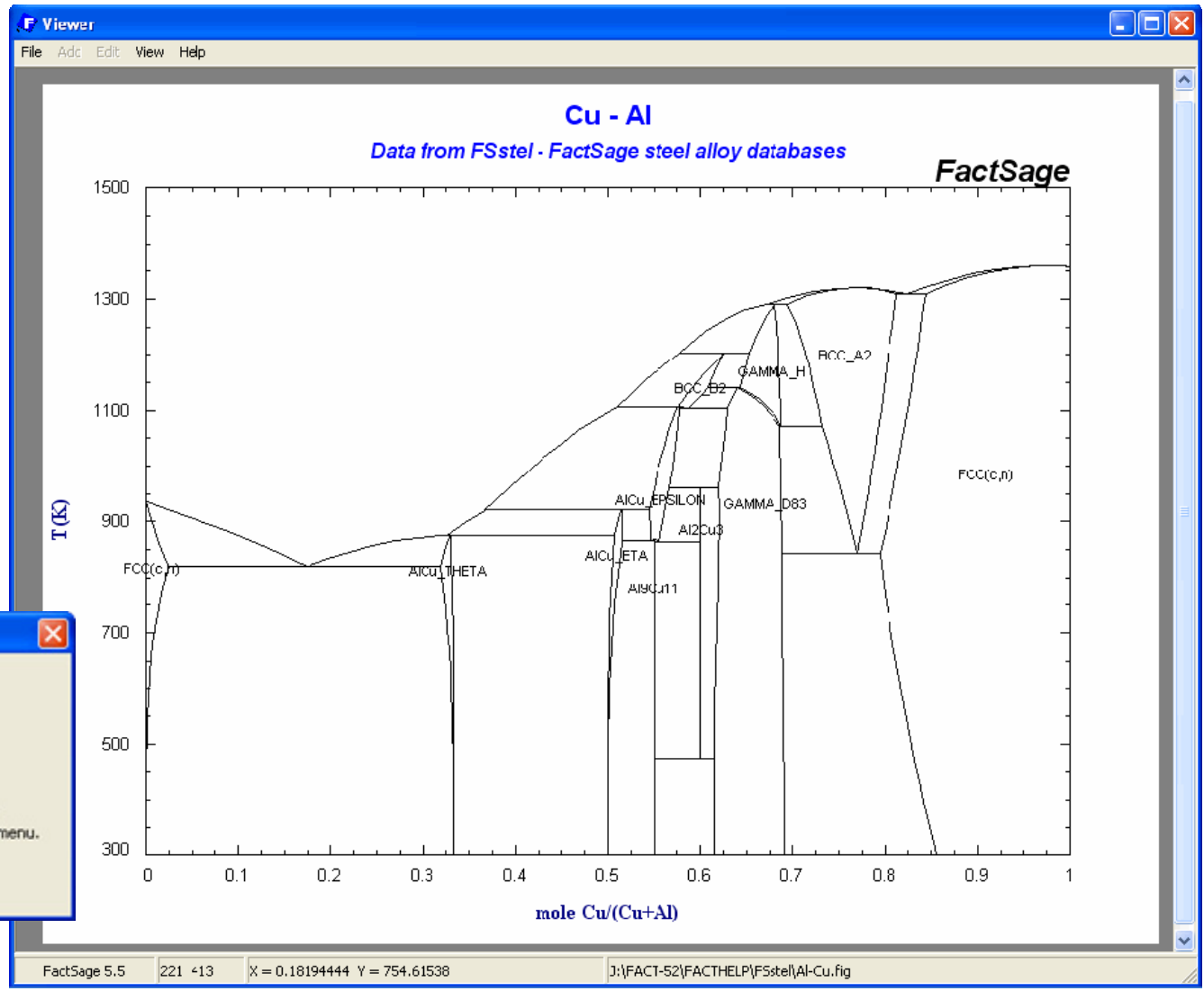
Al-C				
LIQUID	FCC_A1	C(S)	AL4C3(ST)	
Al-Ca				
LIQUID	FCC_A1	BCC_A2	AL2CA(ST)	AL4CA(ST)
Al-Cr				
LIQUID	FCC_A1	BCC_A2	AL13CR2(ST)	AL11CR2(ST)
AL4CR(ST)	AL9CR4(ST)	AL8CR5(ST)	ALCR2(ST)	
Al-Cu				
LIQUID	FCC_A1	BCC_A2	ALCU_THETA	ALCU_EPSILON
ALCU_ETA	BCC_B2	GAMMA_D83	GAMMA_H	AL9CU11(ST)
AL2CU3(ST)				
Al-Fe				
LIQUID	AL13FE4	AL2FE(ST)	AL5FE2(ST)	AL5FE4
BCC_B2(I-option)	FCC_A1	BCC_A2		
Al-Mn				
LIQUID	FCC_A1	BCC_A2	CUB_A13	CBCC_A12
HCP_A3	AL8MN5	AL12MN(ST)	AL6MN(ST)	AL4MN(ST)
AL11MN4(ST)				

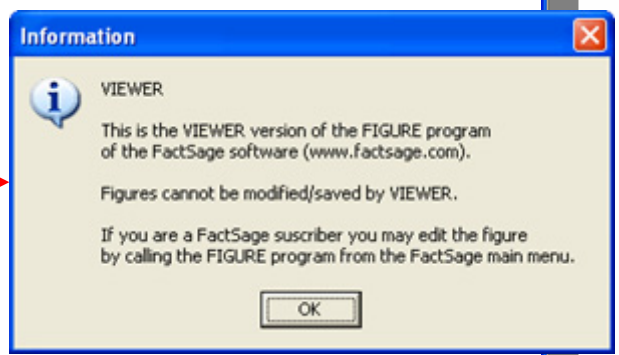
J:/FACT-52/FACTHELP/FSstel/Al-Cu.fig Revised: 2007-01-04



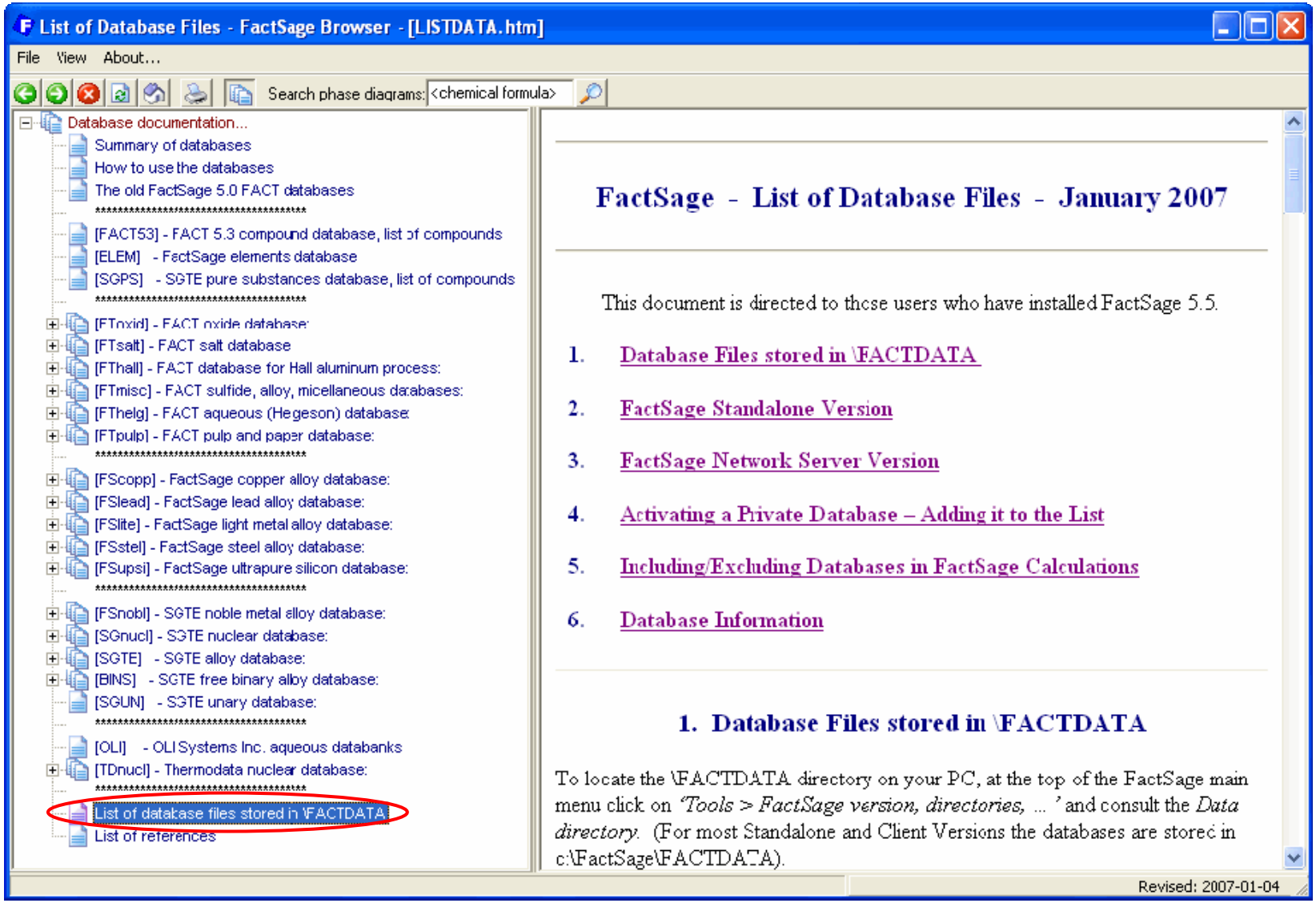
Viewer

For example, a click on **Al-Cu** in the previous slide opens a ***Viewer*** window.

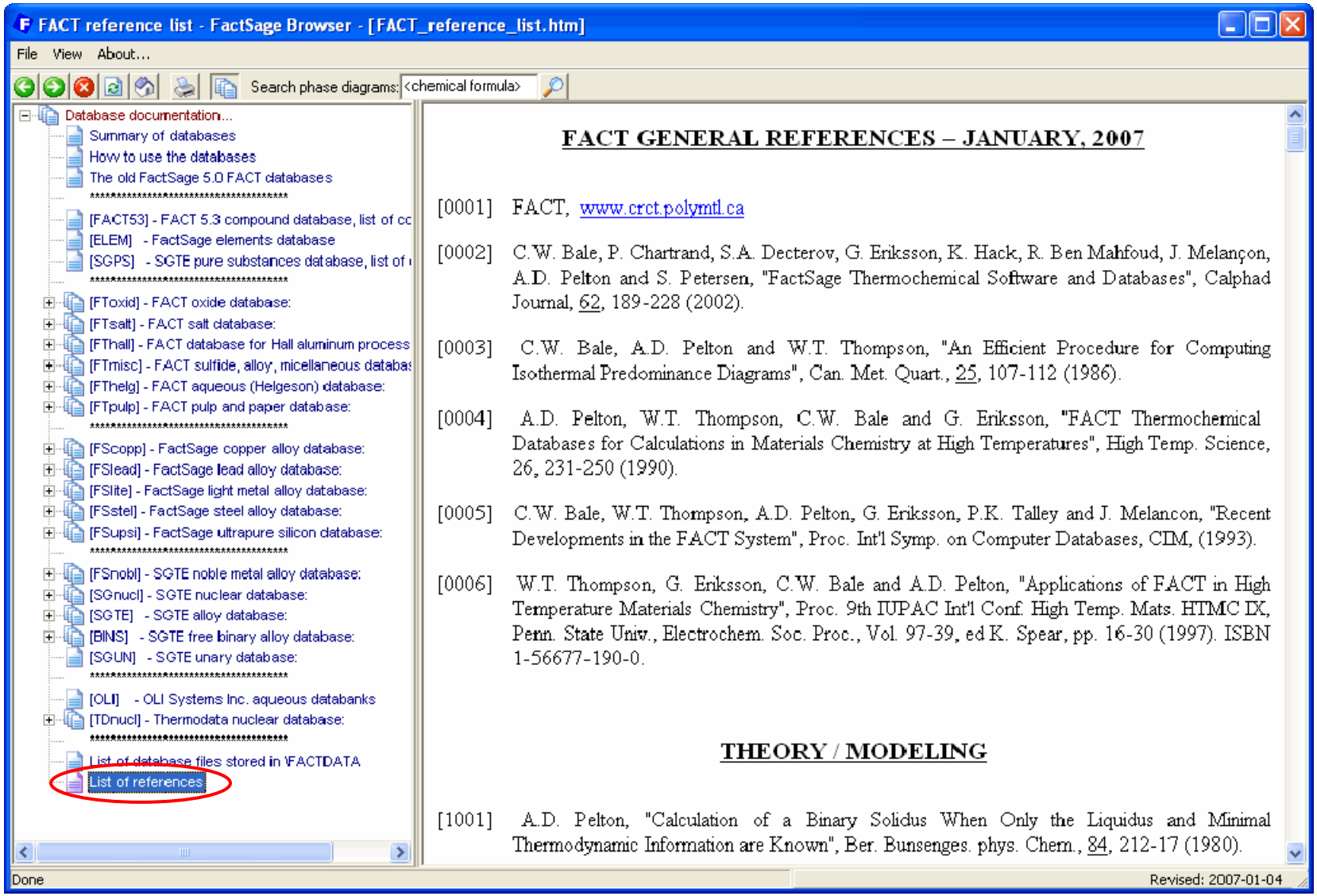




List of database files stored in /FACTDATA

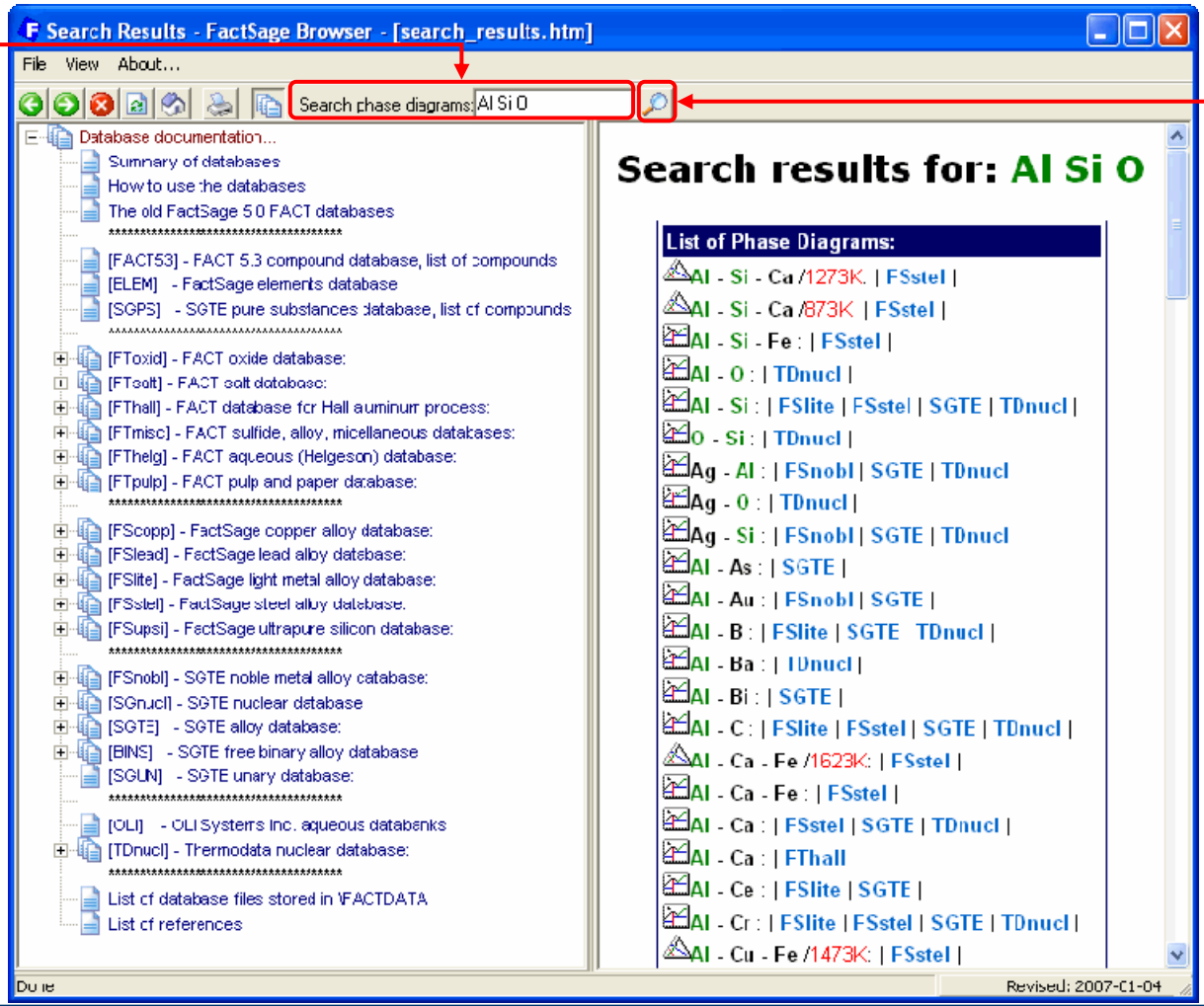


List of references



Search phase diagrams – elements

Enter the components – **elements** or **compounds** – in the **Search phase diagrams text box** and click on the **Search button** to scan the documentation for phase diagrams containing at least one of the components.



Shown here is an example with 3 elements: **Al**, **Si** and **O**.

Search phase diagrams – compounds

Shown here is an example with 2 compounds: Al_2O_3 and SiO_2.