

24. CRYSTALLOGRAPHIC DATABASES

automatically. Multiple reports can be easily generated. These reports are particularly convenient for being able to produce reports quickly based on derived features, such as torsion angles and base morphology (Fig. 24.2.5.2).

In the full search/full report mode, it is possible to access most of the tables in the NDB to build more complex queries. Instead of limiting items that are listed on a single page, the user builds a search by selecting the tables and then the items that contain the desired features. These queries can use Boolean and logical operators to make complex queries.

After selecting structures using the full search, a variety of reports can be written. The report columns are selected from a variety of database tables, and then the full report is automatically generated. Multiple reports can be generated for the same group of selected structures; for example, reports on crystallization, base modification, or a combination of these reports can be generated for a particular group of structures.

24.2.5.4. *Mirror sites*

The NDB is based at Rutgers University (<http://ndbserver.rutgers.edu/>) and is currently mirrored at three other sites: the Institute of Cancer Research (ICR) in London, England (<http://www.ndb.icr.ac.uk>), the San Diego Supercomputer Center in San

Diego, USA (<http://ndb.sdsc.edu/NDB/>) and the Structural Biology Centre in Tsukuba, Japan (<http://ndbserver.nibh.go.jp/NDB/>). These mirror sites are updated daily, are fully synchronous, and contain the ftp directories, the web site and the full database.

24.2.6. Outreach

The NDB has worked closely with the community of researchers to ensure that their needs are met. A newsletter is published electronically four times a year and provides information about the newest features of the system. Questions and very complex queries can be handled by the staff in response to user requests *via* e-mail to ndbadmin@ndbserver.rutgers.edu.

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