

## **Protein Data Bank Changes Guide**

### **New Changes in Version 3.15 November 18, 2008**

Version 3.15 of the PDB file format follows the same format as version 3.20 with a few exceptions. The complete details of the PDB file format can be found at <http://www.wwpdb.org/docs.html>.

## 1. Dates

The date format in the following REMARKs may or may not be the same as in version 3.20.

## Examples:

```
REMARK 4 2G86 COMPLIES WITH FORMAT V. 3.15, 15-DEC-2008
REMARK 100 THIS ENTRY HAS BEEN PROCESSED BY RCSB on 10-MAR-2006.
REMARK 100 THE RCSB ID CODE IS RCSB036809.
REMARK 200 DATE OF DATA COLLECTION : 01-JAN-1996
REMARK 240 DATE OF DATA COLLECTION : 01-DEC-2003
REMARK 245 DATE OF EXPERIMENT : 06-JAN-2002
```

## 2. REMARK 100

Structures processed by Brookhaven National Laboratory (BNL) up until 1998 will not have a processing date and BNL code.

## Example:

```
REMARK 100 THIS ENTRY HAS BEEN PROCESSED BY BNL.
```

## 3. REMARKs 465 and 470

These remarks will not conform to version 3.20 for non-homogeneous NMR entries.

## Example:

```
REMARK 465
REMARK 465 MISSING RESIDUES
REMARK 465 THE FOLLOWING RESIDUES WERE NOT LOCATED IN THE
REMARK 465 EXPERIMENT. (M=MODEL NUMBER; RES=RESIDUE NAME; C=CHAIN
REMARK 465 IDENTIFIER; SSEQ=SEQUENCE NUMBER; I=INSERTION CODE.)
REMARK 465
REMARK 465 M RES C SSEQI
REMARK 465 1 GLY A 224
REMARK 465 1 ALA A 225
REMARK 465 1 MET A 226
REMARK 465 1 ASP A 227
REMARK 465 2 PRO A 228
REMARK 465 2 SER A 229
```

## Example:

```
REMARK 470
REMARK 470 MISSING ATOM
REMARK 470 THE FOLLOWING RESIDUES HAVE MISSING ATOMS(M=MODEL NUMBER;
REMARK 470 RES=RESIDUE NAME; C=CHAIN IDENTIFIER; SSEQ=SEQUENCE NUMBER;
REMARK 470 I=INSERTION CODE):
REMARK 470 M RES CSSEQI ATOMS
REMARK 470 1 GLU A 462 CG CD OE1 OE2
REMARK 470 1 GLU A 494 CD OE1 OE2
REMARK 470 1 GLN A 498 CG CD OE1 NE2
REMARK 470 1 GLU B 462 CD OE1 OE2
REMARK 470 2 GLU A 409 CG CD OE1 OE2
REMARK 470 2 GLU A 450 CG CD OE1 OE2
REMARK 470 2 GLU A 453 CG CD OE1 OE2
REMARK 470 2 GLU B 281 CD OE1 OE2
REMARK 470 2 GLU B 308 CG CD OE1 OE2
REMARK 470 2 LYS B 356 CG CD CE NZ
```

## 4. REMARK 350

This remark may or may not include software-calculated information. The calculated total surface area and gain in free energy may or may not be available.