



	Experiment title: <b>A number of Proteins from Bacteria to Eukarya and from Antarctic to Volcanic Areas</b>	<b>Experiment number:</b> LS-1954
<b>Beamline:</b> ID 29	<b>Date of experiment:</b> from: 12 Jul. 2001 to: 13 Jul. 2001	<b>Date of report:</b> 30/08/2001
<b>Shifts:</b> 3	<b>Local contact(s): : Dr. Bill SHEPARD</b>	<i>Received at ESRF:</i>
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## Report:

### Data collection report *Trematomus bernacchii* haemoglobin

One complete data set was collected at the beamline ID29 on an intermediate of the unfolding pathway of the haemoglobin extracted from the Antarctic fish *Trematomus bernacchii*. The crystal diffracted up to 1.4 Å resolution. Two data collections were carried out to register both the low (up to 3.0 Å) and the high (up to 1.4 Å) resolution reflections with a high level of accuracy.

Data collection statistics are summarised in the following table (the values in parenthesis refer to the highest resolution shell 1.45-1.40 Å).

Space group	C2
Cell dimensions (Å,°)	a=86.88 b=87.65 c=55.34 β=100.7
Resolution (Å)	1.4
Total No. of reflections	327927
No. of independent reflections	80090
Completeness (%)	99.9 (99.7)
Rsym(I) (%)	3.9 (24.0)

The structure of this haemoglobin has been solved by molecular replacement.  
The refinement is currently in progress.