**IUPAC Project Progress Report**

**Project number: 2002-033-1-500**

**Project Title: Solubility data related to oceanic salt systems**
***Part I. Binary systems containing sodium, potassium, and ammonium sulfate***

**Task Group Leader: Christo Balarew**

**Report:**

1. Current status of project: *About 1/6 part of the all papers is compiled and finished in a manuscript.*

2. Progress relative to 'milestones': *40 completed forms*

3. Difficulties encountered (or concerns): *Lack of original papers*

4. Projected completion date (documents ready for external review): *October 2005*

5. Intended outputs and the dissemination plan for this project:
*Collected $Na_2SO_4$ solubility data;*
*Critical data evaluation of the binary $Na_2SO_4$ systems;*
*Data series book;*
*CD ROM.*

7. Work on this project has identified issues and/or opportunities for related projects:
*$Na_2SO_4$ solubility data knowledge is in a part of the general knowledge of the sea-type systems. These data are basis for solubility/crystallization processes modeling in the sea-type systems. They are basic information for: any studies dealing with utilization of marine/ocean chemical resources; salt industry; industrial processes involving sea-salt type systems. This importance determines their role in the solutions of different technological problems.*
*The final result of $Na_2SO_4$ solubility data knowledge is related with the economic and environmental impact of the mentioned industrial processes.*