

Department Logistics
Division for Radiation Safety and Security

Aeroradiometric Measurements in the Framework of the Swiss Exercise ARM12

**Gernot Butterweck¹, Benno Bucher², Ladislaus Rybach³, Georg Schwarz²,
Herbert Hödlmoser¹, Sabine Mayer¹, Cristina Danzi⁴, Gerald Scharding⁴**

¹Division for Radiation Safety and Security, Paul Scherrer Institute (PSI),
5232 Villigen PSI, Switzerland

²Swiss Federal Nuclear Safety Inspectorate (ENSI), Industriestrasse 19,
5200 Brugg, Switzerland

³Institut for Geophysics, Swiss Federal Institute of Technology Zürich (ETHZ),
8092 Zürich, Switzerland

⁴Swiss National Emergency Operations Center (NEOC), 8044 Zürich, Switzerland

Paul Scherrer Institut
5232 Villigen PSI
Switzerland
Tel. +41 56 310 21 11
Fax +41 56 310 21 99
www.psi.ch

CONTENTS

1	INTRODUCTION	1
1.1	Measuring System	1
1.2	Measuring flights	2
1.3	Data evaluation	3
1.4	Data presentation.....	3
2	RESULTS OF THE MEASURING FLIGHTS DURING THE EXERCISE ARM12	4
2.1	Recurrent measurement area around KKL, KKB, PSI and ZWILAG	4
2.2	Zurich	4
2.3	Lac d’Emosson, Finhaut and La Crêta	11
2.4	Spreitenbach	14
2.5	Limmerensee	21
2.6	Profile Weinfeldern – Great St. Bernhard	24
3	CONCLUSIONS	32
4	LITERATURE	34
5	PREVIOUS REPORTS.....	34
6	EVALUATION PARAMETER FILES.....	36
6.1	DefinitionFile_Processing.txt.....	36
6.2	DefinitionFile_DetC.txt	38
6.3	DefinitionFile_DetA.txt.....	40
6.4	DefinitionFile_Detektor_klein.txt.....	43