



User's Guide

KALMAN

A time invariant Kalman filter for WAQUA models



User's Guide KALMAN

A time invariant Kalman filter for WAQUA models.

Version : 1.2, September 16, 2010
Maintenance : see www.helpdeskwater.nl/waqua
Copyright : Rijkswaterstaat

DOCUMENTHISTORY

Version	Date	Description
1.01	10-10-96	First edition
1.1	15-09-98	conversion from WP to word
1.2	16-09-'10	Adobs removed

PREFACE

This User's Guide describes KALMAN.

The KALMAN program computes a time invariant Kalman filter to improve short term predictions of storm surges with WAQUA (12 to 24 hours forecasts). In the current release, the filter can be computed for two types of uncertain parameters, wind noise and boundary conditions, and only 2 dimensional models in spherical co-ordinates are accepted.

The system is based on SIMONA tools and routines and on the Directory System.

Note: The Directory System consists of routines built upon the SIMONA system and is described in general in the User's Guide WAQAD.

CONTENTS

- SECTION 1 [GENERAL INFORMATION](#)
1. About this Manual
 2. About KALMAN
- SECTION 2 [QUICK REFERENCE GUIDE](#)
1. About the Quick Reference Guide
 2. The KALMAN Procedure
 3. WAQUA-with-Kalman
- SECTION 3 [USER'S GUIDE KALMAN PROCESSOR](#)
1. About the User's Guide
 2. Flow Chart
 3. Input and Output Files
 4. The KALMAN processor
- SECTION 4 [USER'S GUIDE WAQUA-WITH-KALMAN](#)
1. About the User's Guide
 2. Flow Chart
 3. Input and Output
 4. The Kalman Filter Process
- [APPENDICES](#)
- A. References
 - B. Comprehensions
 - C. Examples
 - D. SDS Documentation File for Kalman
 - E. Log-sheet