**Protocol van Overdracht**

**Rekenkernel DikesOvertopping versie 18.1.1**

**Versie 2.0, februari 2013**

**Status en Versie**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Project-nummer | Versie | Datum | Auteur (ontwikkelaar, PL) | Paraaf | Review beheerder Deltares / RWS-WVL | Paraaf | Goedkeuring  SLA-Managers | Paraaf |
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1. **Woord vooraf**

Doel van de software

De rekenkernel DikesOvertopping wordt gebruikt voor het berekenen van golfoploop en overslag gedrag bij specifieke lokale omstandigheden. De kernel wordt beheerd en onderhouden in het KPP project 'Waterveiligheidsinstrumentarium'.

Over dit protocol

Voor dit Protocol van Overdracht (PvO) is gebruik gemaakt van het daarvoor beschikbare sjabloon (versie 2.0).

1. **Onderbouwing van de verandering**

Ten opzichte van versie 17.1.1 is het volgende veranderd:

* Een tekortkoming in de iteratieprocedure van de omkeervariant is hersteld: Jira issue OVERS-51.
* De methode voor het aanpassen van een profiel bij een opgegeven kruinhoogte is aangepast, om goed om te kunnen gaan met een situatie waarbij sprake is van een berm bestaande uit twee aaneengesloten profieldelen. Jira issue OVERS-52.
* De geautomatiseerde testbank is zodanig uitgebreid dat alle 'trends tests' nu ook worden uitgevoerd voor de omkeervariant. In samenhang daarmee zijn ook het 'test plan' en het 'test report' herzien, uitgebreid en geüpdatet.

Hiermee zijn twee bugs hersteld en is de software - vooral in geval van gebruik van de omkeervariant - robuuster en betrouwbaarder.

1. **Modelonderdelen**

Voor het opnemen van het model in de modellenbibliotheek worden in deze paragraaf de model-onderdelen beschreven. De modellen bestaan uit een aantal verschillende onderdelen, die hieronder nader beschreven worden:

1. *programmatuur*

De kernel wordt opgeleverd in de vorm van dynamic link libraries (dll's), die door

applicaties kunnen worden gebruikt (aangeroepen). Er is geen user interface.

1. *resolutie, het te gebruiken rooster*

Niet van toepassing.

1. *schematisatie, afbeelding van de werkelijkheid op het rooster, en schematisatie-methode*

Niet van toepassing.

1. *randvoorwaarden*

Niet van toepassing.

1. *een onderbouwing van de keuze van belangrijkste modelparameters*

De toegepaste parameters zijn gesynchroniseerd met de lijst die in WBI 2017 is vastgesteld.

1. *de gebruikte proces/workflow manager*

Niet van toepassing.

1. *de gevolgde kalibratie- en verificatie-procedure en de resultaten van deze procedure*

De formules en het model zijn binnen SBW en WBI 2017 inhoudelijk vastgesteld en vastgelegd in de documenten Requirements en Functioneel Ontwerp van de kernel.

1. *voor welk doel en binnen welke grenzen het model getoetst is*

Het model is bedoeld en geschikt voor gebruik in WBI 2017 software HydraRing, Ringtoets en standalone tools (UI schillen om de kernels heen).

1. **Gebruik van het model**

RWS kan de module voor de volgende primaire processen gebruiken:

1. Watermanagement, operationele toepassingen

Niet van toepassing.

1. Beheer en onderhoud van het beheersgebied

Als onderdeel van het WBI 2017 instrumentarium (Ringtoets, HydraRing en standalone tools).

1. Aanleg

Als onderdeel van het (toekomstig) ontwerpinstrumentarium.

1. Beleidsondersteuning verkenning

Als onderdeel van het WBI 2017 instrumentarium.

1. **Uitlevering**

De module zal na acceptatie door RWS-WVL worden opgenomen in de modellenbibliotheek van RWS bij Deltares. Van hieruit kan de module aan beheerders van gebruikende RWS-applicaties (en eventueel aan derden) ter beschikking worden gesteld.

1. **Producten**

Programmatuur:

In het versiebeheersysteem is DikesOvertopping traceerbaar, namelijk in tag “18.1.1”.

De kernel zelf bestaat uit 1 module:

* dllDikesOvertopping.dll

Documentatie (digitaal):

Deze kernel bevat de volgende documenten

* Functional Design
* Technical Design
* Technical Documentation
* Test Plan
* Test Report

1. **Beheer van het model**

De ontwikkelde software van RWS wordt bij Deltares beheerd in het kader van het KPP project Waterveiligheidsinstrumentarium en staat in Subversion. Tevens zijn de documentatie en de geautomatiseerde testbank in Subversion ondergebracht. Het model (of onderdelen daarvan) wordt op aanvraag beschikbaar gesteld aan derden. Voorafgaand aan het ter beschikking stellen wordt eerst toestemming gevraagd aan RWS-WVL.

1. **Referenties**

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This kernel is released under the following license.

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dllDikesOvertopping.dll

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Version 3, 19 November 2007

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product that is covered by this License, on a durable physical

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