**Protocol van Overdracht**

**Rekenkernel DikesOvertopping versie 19.1.1**

**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 |
| 11203721 | 1 | 27-05-‘19 | Edwin Spee |  | Hans de Waal |  | Gerard Blom |  |
|  |  |  |  |  | Robert Slomp |  | Rolf van den Hoek |  |

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 kader van 'B&O Waterveiligheidsinstrumentarium Rijkswaterstaat', hetgeen in 2019 deel uitmaakt van het KPP project 'Ondersteuning' (WK03).

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 18.1.1 is het volgende veranderd:

* De fout bij het opvragen van het versienummer is hersteld. Ook is geregeld dat nu het versienummer op nog maar één plaats hoeft te worden bijgewerkt. Jira issue OVERS-58.
* De ontwikkelomgeving is geüpdatet naar Visual Studio 2015 met Fortran XE2016 en naast de 32 bits versie wordt nu ook een 64 bits versie van de dll gegenereerd. Jira issue OVERS-55.
* Een tekortkoming in het detecteren van een ongeoorloofd invoerprofiel is hersteld. Jira issue OVERS-54.
* De aard van de foutmelding in geval van afnemende x-coördinaten in het invoerprofiel is verbeterd. Jira issue OVERS-53.

De eerstgenoemde verandering is noodzakelijk om verwarring omtrent de gehanteerde versie van de dll te voorkomen. In de rekenmethode zelf zijn geen wijzigingen aangebracht.

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

Als onderdeel van RWsOS Meren

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 “19.1.1”.

De kernel zelf bestaat uit twee dll (dynamic link library) bestanden:

* dllDikesOvertopping.dll
* winapi.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 B&O 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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