PC-IHACRES v1.02

The information given here, as downloaded at any time, may change without notice.

PC-IHACRES v1.02 was developed jointly by the Centre for Ecology and Hydrology, Wallingford (a component organisation of NERC) and the Integrated Catchment Assessment and Management Centre (ICAM), Australian National University, Canberra.

From October 2003, the software, its 94-page User Guide and set-up details are available free of charge from the CEH website http://www.ceh.ac.uk/.

From November 2003, the package is also available from the online Reference Manual of the Hydrological Operational Multipurpose System (HOMS) maintained by the World Meteorological Organization (WMO). PC-IHACRES v1.02 is HOMS Component K22.2.11 and can be down-loaded from the HOMS website http://www.wmo.ch/web/homs/homshome.html.

The HOMS and CEH websites are the only sources of PC-IHACRES v1.02 material recognised by CEH or ICAM. It is recommended that each user downloads the software and its documentation to their PC separately.

From October 2003, no person or organization should pay money for obtaining the PC-IHACRES v1.02 software or its documentation. Any payment made or received for results and /or reports involving application(s) of PC-IHACRES v1.02 by parties other than CEH or ICAM is a matter between the parties involved. Neither CEH nor ICAM accept responsibility for the quality of results obtained using PC-IHACRES v1.02, or for how the results are applied, or for any decisions taken on the basis of such results or reports.

Neither CEH nor ICAM operate a Help Desk for PC-IHACRES v1.02. Although user-experience feedback is most welcome, neither CEH nor ICAM undertake to respond to queries related to PC-IHACRES v1.02.

Next-generation IHACRES 'Classic Plus' software is currently being developed at ICAM, with CEH, and will be available soon. However, given the proven utility of PC-IHACRES v1.02 and its 97-page User Guide for assisting with hydrological studies and as a user-friendly teaching/training-aid, it will remain downloadable from the CEH and WMO HOMS websites for the foreseeable future.

The Classic Plus version will provide greater choice of model structure, etc., and some users will find it more suitable for certain applications than PC-IHACRES v1.02.

IHACRES Classic Plus will include the loss module structure incorporated in PC-IHACRES but may give slightly different results.

In any correspondence with CEH or ICAM related to the packages, or when citing the software in papers/reports, etc., please state clearly either "PC_IHACRES v1.02" or "IHACRES Classic Plus" and the relevant User Guide document.

You have downloaded PC-IHACRES v1.02 and its documentation. This *READ_ME.pdf* is one of the files you have downloaded and can be read on-screen again later. However, you may wish to print it now.

You have downloaded the folder /IHACRES and 6 sub-folders, which should be on the hard-disk of your PC as shown in Fig. 1 (total size is about 5MB).

The PC-IHACRES package you have downloaded has been tested on Windows 2000. It will run on an Intel 80386 (relatively slowly) but a Pentium processor (or equivalent) is recommended.

For an overview of PC-IHACRES v1.02, see the slideshow in the READ_ME directory (*SLIDE_SHOW.pps*)

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                                    C:
                                     |
                                 \IHACRES
                                         (IHACRES.EXE is in this folder)
                                     |
        ┌──────────┬──────────┬──────────┬──────────┬─────────┐
    \gronwen      \OCX      \READ_ME     \teifi     \temp    \gwy
        |                       |           |          |
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 │ files for   │        │ READ_ME.pdf  │ │(empty)│    |
 │ tutorial    │        │ SLIDE_SHOW.pps│└───────┘    |
 │ in section  │        │ USER_GUIDE.pdf│
 │ 7.1 of      │        │ RELEASE_NOTES.pdf│
 │ User Guide  │        └──────────────┘
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           │ graphics │        │ files for │      │ files for │
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           └──────────┘        │ section 7.2 of│  │ section 7.3 of│
                               │ User Guide │     │ User Guide │
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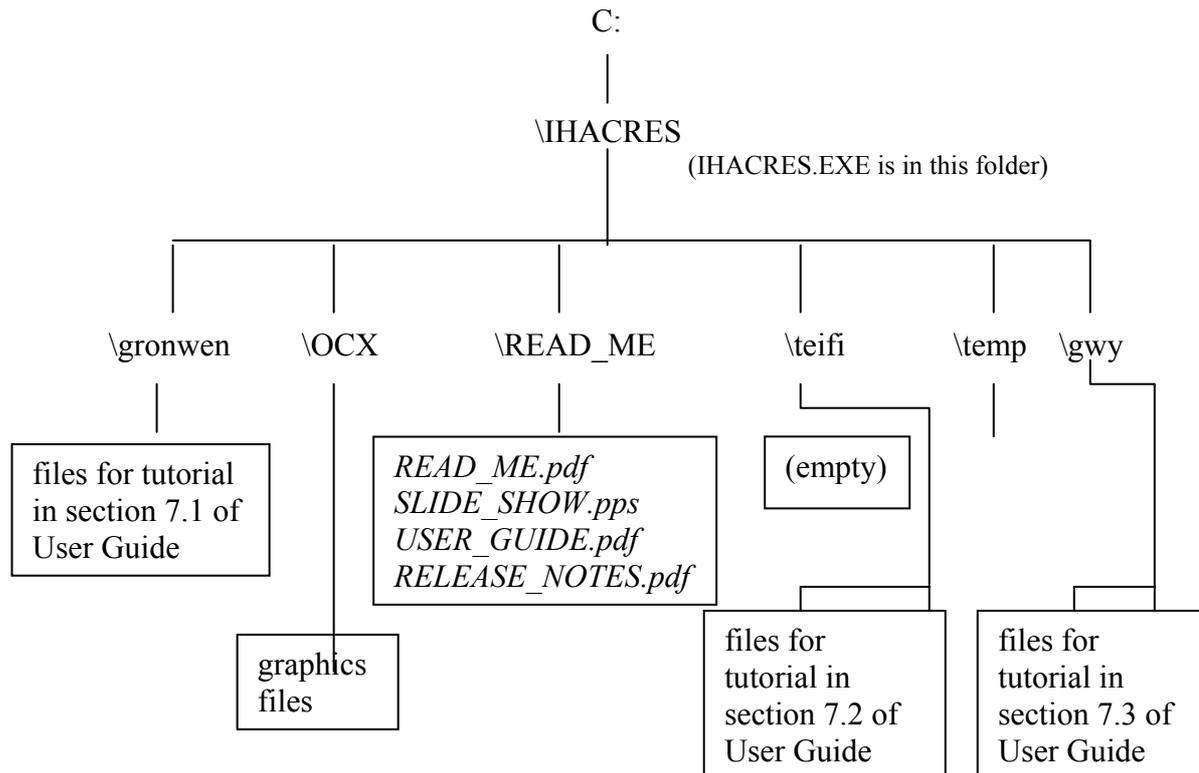
Figure 1   *Downloaded file structure and files*

Before using the package it helps if the operator has some education/training in hydrology. As with all software, there is a learning curve. Three tutorials are provided in the User Guide which help the operator become familiar with the functionality of the package and the application of unit hydrographs for continuous flow simulation. Together with the 94-page User Guide, the software can assist in the further education/training of hydrologists. For accounts of advanced applications of PC-IHACRES v1.02, or of research developments of the IHACRES modelling approach, please consult the scientific literature.

To start PC-IHACRES v1.02 double-click on IHACRES.EXE in /IHACRES. Initially, proceed from section 7.1.1 to section 7.1.9 of the Nant y Gronwen tutorial in the User Guide. **Before trying other catchments with your own data**, it is strongly recommended that you work right through the tutorials for the Gronwen (section 7.1), Teifi (section 7.2) and Gwy (section 7.3).

The User Guide (*USER_GUIDE.pdf*) is for version 1.0 but it is valid for version 1.02 (changes for version 1.02 were largely cosmetic – as outlined in *RELEASE_NOTES.pdf*. You may see small differences between the tutorial results given in the User Guide (software version 1.0) and corresponding on-screen results (version 1.02).

Especially when using PC-IHACRES v1.02 for long periods of time, you may find it more comfortable to use a 'mouse' rather than a touch-sensitive pressure pad or 'pointer stick'.

Please read the **copyright and terms of conditions** for the 'free of charge' PC-IHACRES v1.02, given in *USER_GUIDE.pdf* and *RELEASE_NOTES.pdf*.

Enquiries are welcome from those interested in advanced research applications of PC-IHACRES v1.02, or training courses, or further development and the IHACRES methodology (e.g. variants of the loss module, alternative methods for deriving unit hydrographs, etc).

Happy modelling!

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