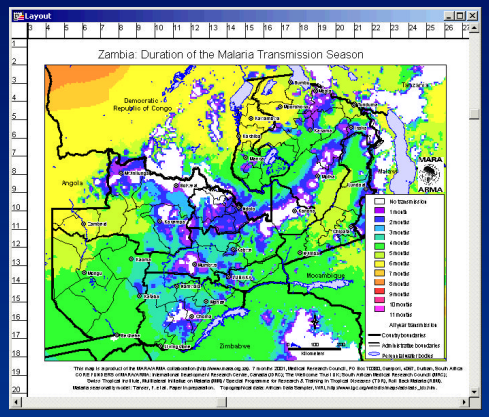
2. The Maps Module

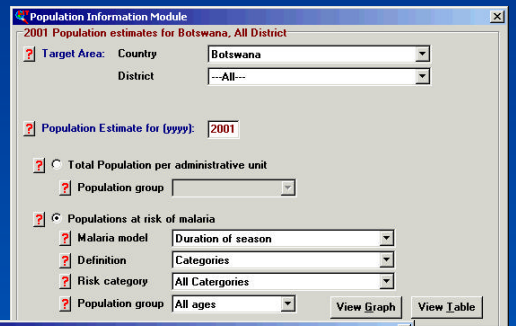
Contains country and continental maps of:

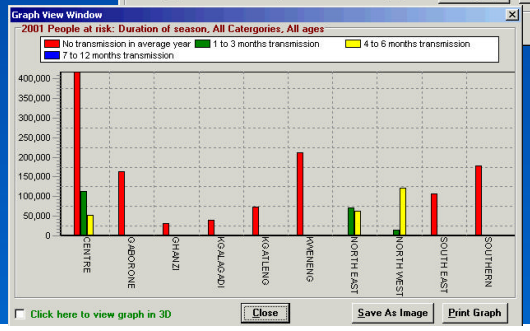
- spatial-statistical malaria **prevalence** models
- **seasonality** of malaria
- **first and last month** of the transmission season(s)
- **duration** of the season
- distribution of **endemic** malaria
- risk of **epidemic** malaria in the East African Highlands (HIMAL project)
- maps of products from other sources, eg:
  - **population** distribution
  - **reference** maps, eg topography, altitude, rainfall, etc



3. The Population Module

- Estimates of **total population** per administrative area
- **Populations at risk** of malaria, according to different malaria models, and for different **age** groups for a specified **year**





Applications of MARALITeCD

The se products allow

- ***appropriate selection of malaria control tools*** (different control tools are suited to different transmission intensities and different season lengths),
- ***evidence-based planning*** (distribution of populations at risk allows prioritization and targeting for large-scale control programmes and may guide distribution routes, eg for ITN's),
- ***spatial targeting*** (placing control projects in high-priority areas ensures equitable distribution of resources),
- ***correct timing*** (by knowing the start and end of the transmission season),
- ***rational budgeting*** (by knowing how many people are at different levels of risk, when and where), and
- ***empirical assessment*** of control interventions (what is the historical base-line, and how many people need to be surveyed to show significant reductions against this base-line).

Ordering

The MARALITeCD can be ordered via the Internet at:
www.mara.org.za > Data

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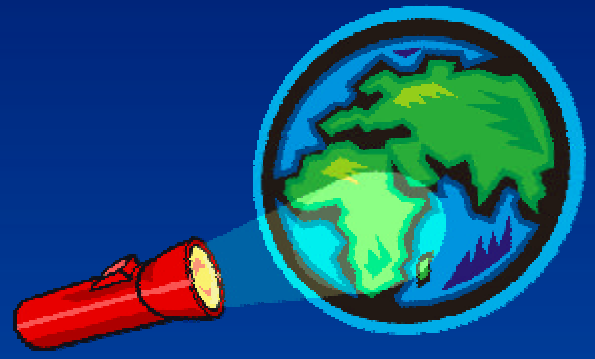
Email: maralite@mrc.ac.za

MARA ARMA

Mapping Malaria Risk in Africa / Atlas du Risque de la Malaria en Afrique



MARA LITe CD

Low-end Information Tool

Malaria

Version 3.0

©MARA/ARMA, 2002

MARA ARMA

The MARA/ARMA project

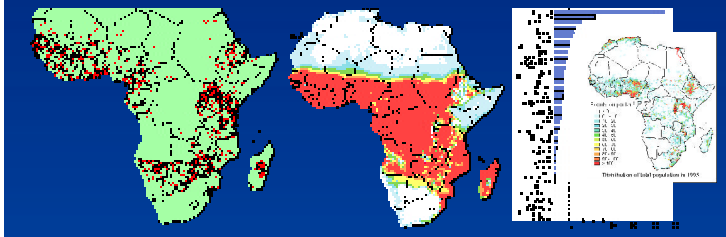
MappingMalariaRiskin Africa/
AtlasduRisquede laMalaria enAfrique

People&diseasesareunevenlydistributedandresourcesare limited.Thereforehealthinterventionshavetotargetaffected populations,addresshigh-prioritydiseases&areasfirstfor maximumequitablebenefitandhavetobemonitoredto evaluateimpact:
Toplanandimplementmalariacontroleffectively,weneedto know ***where,when,whyandhowmuchmalariaoccurs, andwhoisactuallyatrisk***.

TheinternationalMARA/ARMAcollaborativeprojectwas established in1996becausethesebasicquestionshadnot yetbeenanswered.

ThemainproductsofMARA/ARMAare:

Malariaprevalence surveydata | **Malariadistribution models** | **Populations at riskofmalaria**



TheMARALITeCD

ProvidestheMARA/ARMAproductsinuser-friendlyformat:
! **~10000malariaprevalencedatapoints** from 43endemic Africancountries
! **Malariadistributionmaps**
! Estimated **populationslivingatrisk** ofmalaria

TheMARALITesoftwarecorrespondinglycontainsthree modules:
1.Prevalencedatamodule
2.Mapsmodule See detail
3.Populationmodule

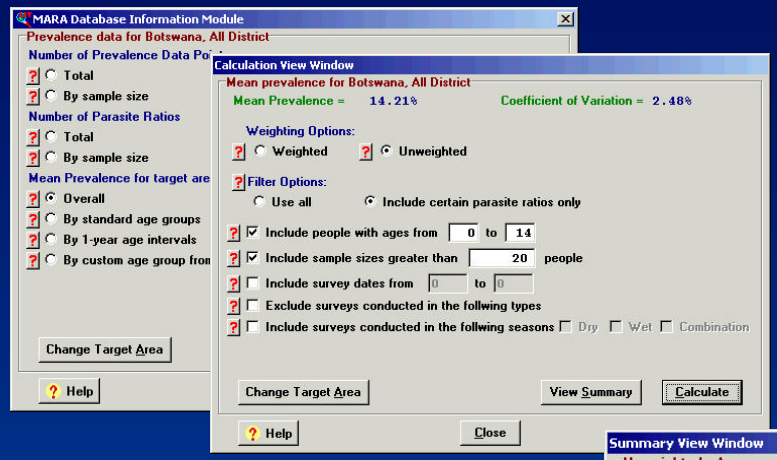
Otherinformation onthe MARALITeCD:

! CompleteslidetouroftheCD
! Tutorialexerciseswithanswers
! MARA/ARMAexecutivesummary
! Requiredsoftware
! OriginalmalariadistributionmodelsinIdrisiformat

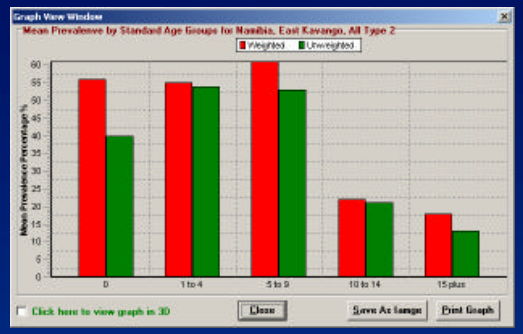
1.The Prevalence DataModule

! Bibliographicalinformationonavailablepublishedandunpublisheddata
! Querysystemtofindoutwhatdataareavailableandtocalculatemeanprevalenceforaparticularregionofinterest
! Designpre-andpost-interventionprevalencesurveysusingtheMARAdataasbaseline.

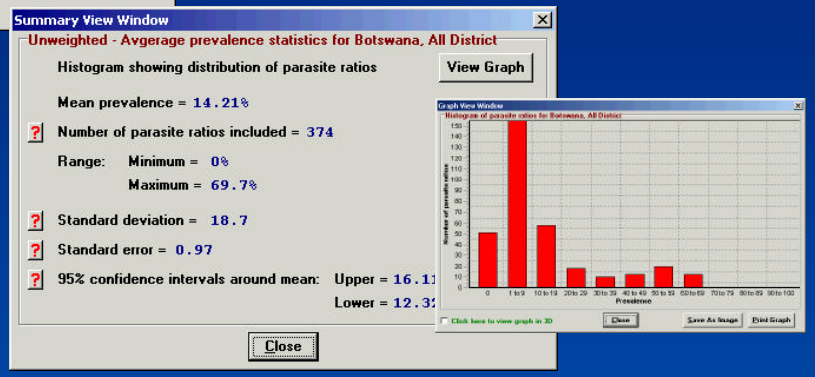
Calculatemeanprevalencefortargetarea



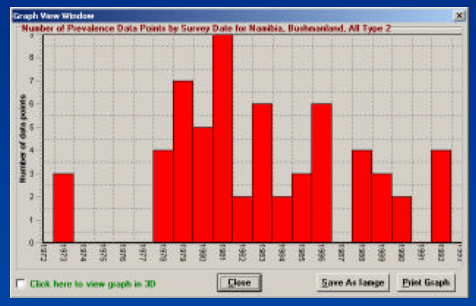
Meanprevalenceby agegroup



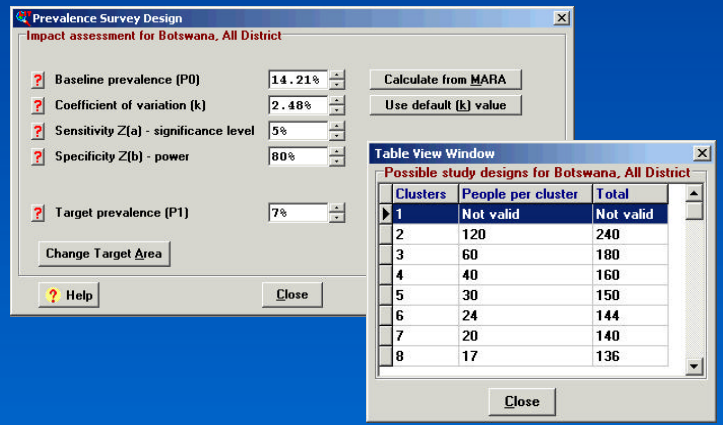
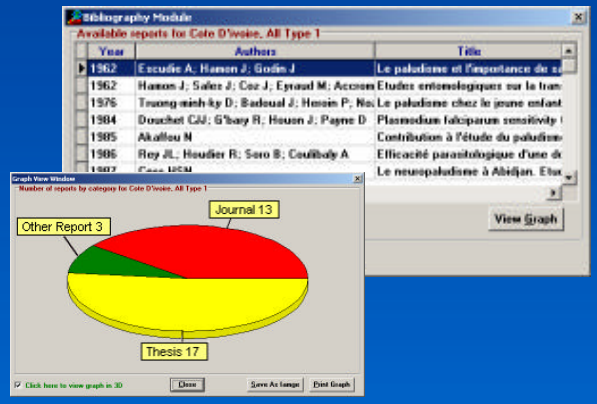
Meanprevalencesummarystatistics



Numberofsurveyresultsavailablebydate



Evidence-baseddesignof prevalencesurveys



Bibliographyof datasources