

IMPORTANCE OF DIGITIZATION OF LIBRARY
RESOURCES WITH SPECIAL REFERENCE TO THE
DIGITIZATION PROJECT OF THE NATIONAL
SCIENCE FOUNDATION

SEMINAR ON USE OF INFORMATION
TECHNOLOGY FOR DEPARTMENT
LIBRARIANS

National Library Documentation
Services Board

28 November 2017

Sunethra Perera

TOPICS DISCUSSED

- ◉ What is digitization
- ◉ Why Digitization? Benefits of Digitization
- ◉ World Scenario
- ◉ Selection criteria for digitization
- ◉ NSF Digitization project
- ◉ Sri Lanka - scenario

WHAT IS DIGITIZATION

- ⦿ Process by which analogue content is converted to a sequence of 1s & 0s & put into a binary code to be read by a computer.
- ⦿ Analogue material $\xrightarrow[\text{modem}]{\text{conversion}}$ Digital material

ANALOGUE MATERIAL

Analogue material - many types


- ◉ Text
- ◉ images
- ◉ Audio - Sound (music, voice)
- ◉ Video

Nature of Analogue material

- ◉ Tied to a physical medium
- ◉ Bound to a sequential representation
predetermined by the author (linear, fixed)

NATURE OF DIGITAL MATERIAL

- very flexible
- can be browsed, searched, indexed, collated instantly
- can be manipulated, copied, altered easily
- can be compressed for storage (storage media-DVD, CD-ROM, other)
- Can be copied unlimited number of times without degradation of the original analogue material
- Can be delivered in a variety of ways.
- Can be delivered to increasing numbers of computers - computer networks; Internet
- Can be linked to a whole web of other content -
- Can be linked with other media to create multimedia

Contents
Featured content
Current events
Random article
Donate to Wikipedia
Wikipedia store
Interaction
Help
About Wikipedia
Community portal
Recent changes
Contact page
Tools
What links here
Related changes
Upload file
Special pages
Permanent link
Page information
Wikidata item
Cite this page
Print/export
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Wikimedia Commons
Languages 

Geography of Sri Lanka

From Wikipedia, the free encyclopedia

Coordinates:  7°00'N 81°00'E

"Ceylon" redirects here. For the programming language, see [Ceylon \(programming language\)](#). For the hamlet in Canada, see [Ceylon, Saskatchewan](#).

The main island of the island nation of **Sri Lanka**, itself known as **Sri Lanka** (formerly called *Ceylon*, *Lanka-dvipa*, *Simhala-dvipa*, etc.), is a South Asian island in the **Indian Ocean**, southeast of the **Indian subcontinent**, in a strategic location near major Indian Ocean sea lanes.

It has a total area of 65,610 km², with 64,740 km² of land and 870 km² of water. Its coastline is 1,340 km long. Sri Lanka's climate includes tropical monsoons: the northeast monsoon (December to March), and the southwest monsoon (June to October). Its terrain is mostly low, flat to rolling plain, with mountains in the south-central interior. The highest point is [Pidurutalagala](#) at 2,524.13 m. Natural resources include limestone, graphite, mineral sands, gems, phosphates, clay, hydropower.

Adam's Bridge, a land connection to the Indian mainland, is now mostly submerged with only a chain of limestone shoals remaining above sea level. According to temple records, this natural **causeway** was formerly complete, but was breached by a violent storm (probably a **cyclone**) in 1480. The formation is also known as *Rama's Bridge*, as according to **Hindu mythology**, it was constructed during the rule of **Lord Rama**.

Contents [hide]

- 1 Geology
- 2 Topography
- 3 Climate
- 4 Ecological zones

Sri Lanka

Native name: ශ්‍රී ලංකා

Nickname: Pearl of the Indian Ocean



Map Sri Lanka



Network
Internet access

WHY DIGITIZATION?

- Digital collections have **enormous potential** for changing the way that information is **used** & for developing new ways of **preserving, collecting, organizing, propagating & accessing knowledge.**

(Witten, & Bruinbridge, 2003)

- due to the nature of digital material
- Due to the advent of digital technologies

WHAT TYPE OF MATERIAL CAN BE DIGITIZED?

- ◉ Printed material - books and collections on paper, from basic text documents to complex graphics
- ◉ rare documents, manuscripts, and high-resolution imagery.
- ◉ Hand written documents
- ◉ Type written (on manual type writers)
- ◉ Text in different languages
- ◉ Photographs

- ◉ audio and video tapes
- ◉ Multimedia

BENEFITS OF DIGITIZATION

- ◉ Access : broader & enhanced access to a wider community (computer networks/Internet)
- ◉ Delivery in many ways
- ◉ Collection Development -
 - **online consortia** (group of Libraries)- Library gateways/portals
 - Reunification of collections held in far -away locations.
 - Common interface
 - Cross reference searching - federated searching
 - Research & Education
- ◉ Support preservation
- ◉ Revenue - Sale of publications
- ◉ Institutional & strategic benefits - improve profile

DIGITAL LIBRARIES IN THE WORLD

1. **World Digital Library.** A source for manuscripts, rare books, films, maps and more in multilingual format.
2. **Universal Digital Library.** A collection of one million books.
3. **Project Gutenberg.** More than 33,000 e-books to read and download.
4. **Bartleby.** An immense collection of books for consultation, including fiction, essay and poetry.
5. **ibiblio.** E-books, magazines, academic essays, software, music and radio.
6. **Google Books.** More than 100,000 books for consultation, download or on-line purchase.
7. **Internet Archive:** The largest digital library for downloading e-books and audio-books for free.
8. **Open Library:** More than one million e-books of classic literature to download.

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USPTO Patents Application 10743335 by United States Patent and Trademark Office



USPTO Patents Application 09848616 by United States Patent and Trademark Office



USPTO Patents Application 10743334 by United States Patent and Trademark Office



USPTO Patents Application 10743327 by United States Patent and Trademark Office

- Topics & Subjects
- washington 440,130
- new york 342,449
- illinois 279,947
- california 269,950

Telev
CNN

KNTV (NBC)
30,765 items

Fox News
24,280 items

WRC (NBC)
27,649 items

son

Media

Texts

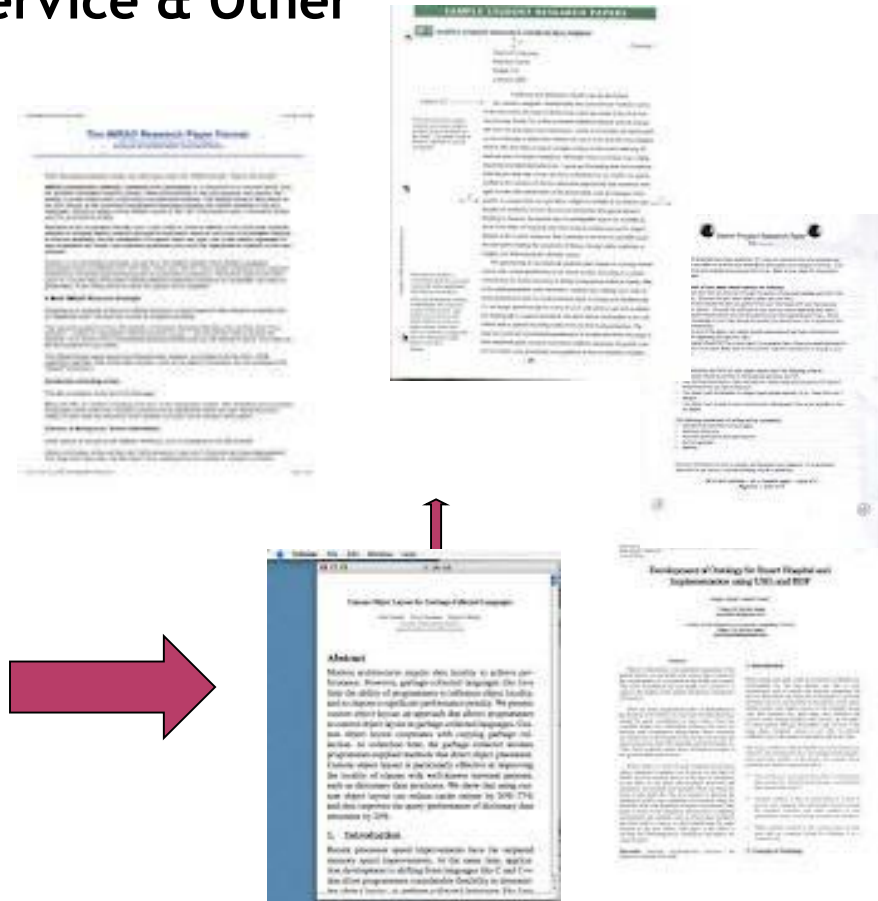
Free Audiobook Collection

NATIONAL DIGITIZATION PROJECT

- ◉ Project period : 5 years (2011 - 2015)
- ◉ Funds - Rs. 102 million
- ◉ Funding Body - Government of Sri Lanka
- ◉ Implementation Body - National Science Foundation
- ◉ Central Fund
- ◉ National Team of experts on e-repository development
- ◉ Project Steering Committee - 05 members
 - coordinate,
 - implement &
 - monitor
- ◉ Specifications to the Digital files
- ◉ Digitization - outsourced to a suitable reputed service provider Memorandum of Understanding

NATIONAL DIGITIZATION PROJECT

- 15 Universities
- 30 Research institutes Service & Other
- S & T Institutions
- R & D Organizations



NATIONAL RESEARCH OUTPUT???

Visibility ???

LOCAL RESEARCH OUTPUT -TYPES OF MATERIAL VISIBILITY ???

- Periodical articles - local S & T journals
 - Periodical articles of local scientists
foreign/international S & T journals
 - Post Graduate Theses/dissertations
 - Research Papers presented at conferences (by local researchers)
 - Technical Reports (committees/S & T institutions)
 - Research Reports (local researchers/S & T institutions)
 - **Data sets**
 - Maps, Pictures, images
 - Monographs
 - **Historical documents, palm leaf, ola leaf information**
 - Annual Reports of local S & T institutions
 - Extension material
 - Newspaper articles
- ◉ all languages
 - ◉ all formats
 - Text, pdf
 - Power point presentations
 - Images (gif, jpeg, png)
 - video/mpeg

USERS

NATIONAL REPOSITORY OF SCIENCE & TECHNOLOGY INFORMATION

- **Scholars (major category)**
 - **Scientists researchers & Technologists**
 - **Policy makers**
 - **Academics**
- **General Public & Students**
- **Industry and entrepreneurs**
- **Administrators**
- **Funding Bodies**

SRI LANKA SCIENCE INDEX (SLSI)

Interrogation base CDS/ISIS SLSTIC.01 - Microsoft Internet Explorer

File Edit View Favorites Tools Help

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Address <http://thakshana.nsf.ac.lk/wwwisis/slstic/form.htm> Go Links

CDS/ISIS data base : SLSTIC

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All Fields

Title

Person(s)

Year of Publication

Keywords

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Title Index and or

List of Author(s) and or

Select Year and or

Keyword Index and or

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— Click a term to select it —

- SCIENTIFIC METHOD
- SCIENTIFIC MOBILITY
- SCIENTIFIC NAME
- SCIENTIFIC NAMES
- SCIENTIFIC NETWORK
- SCIENTIFIC NETWORKS
- SCIENTIFIC ORGANIZATIONS
- SCIENTIFIC PAPERS
- SCIENTIFIC PARAMETERS

Next page

A B C D E F G H I J K

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OBJECTIVES

To digitize local S & T literature available in Research & Academic institutions in the country with a view to

◉ 15
Universities

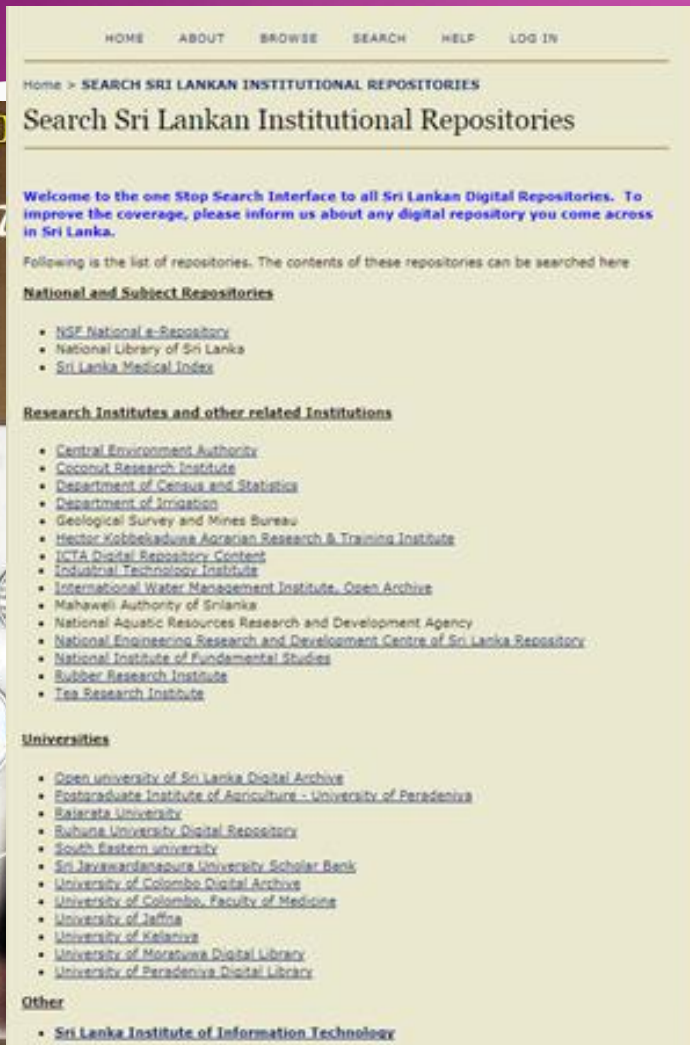
◉ 30
Research
institutes

◉ R & D
Organizations

◉ Service &
Other S & T
Institutions

- ◉ develop a mechanism to ensure that the local academic & scientific community have **adequate**, easy & quick **online access to the full text of locally originated scientific literature**
- ◉ **enhance the usage** of S&T information for national development.
- ◉ support establishment/maintenance of **Institutional Repositories (open archives)** of S & T literature in the country at institutional level.
- ◉ **preserve the original** local S & T literature with a potential for deterioration.

PROJECT FRAME WORK



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Home > SEARCH SRI LANKAN INSTITUTIONAL REPOSITORIES

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National and Subject Repositories

- [NSF National e-Repository](#)
- [National Library of Sri Lanka](#)
- [Sri Lanka Medical Index](#)

Research Institutes and other related Institutions

- [Central Environment Authority](#)
- [Coconut Research Institute](#)
- [Department of Census and Statistics](#)
- [Department of Irrigation](#)
- [Geological Survey and Mines Bureau](#)
- [Hector Kobbekaduwa Agrarian Research & Training Institute](#)
- [ICTA Digital Repository Content](#)
- [Industrial Technology Institute](#)
- [International Water Management Institute, Open Archive](#)
- [Mahaweli Authority of Sri Lanka](#)
- [National Aquatic Resources Research and Development Agency](#)
- [National Engineering Research and Development Centre of Sri Lanka Repository](#)
- [National Institute of Fundamental Studies](#)
- [Rubber Research Institute](#)
- [Tea Research Institute](#)

Universities

- [Open university of Sri Lanka Digital Archive](#)
- [Postgraduate Institute of Agriculture - University of Peradeniya](#)
- [Balerata University](#)
- [Ruhuna University Digital Repository](#)
- [South Eastern university](#)
- [Sri Jayawardanapura University Scholar Bank](#)
- [University of Colombo Digital Archive](#)
- [University of Colombo, Faculty of Medicine](#)
- [University of Jaffna](#)
- [University of Kelaniya](#)
- [University of Moratuwa Digital Library](#)
- [University of Peradeniya Digital Library](#)

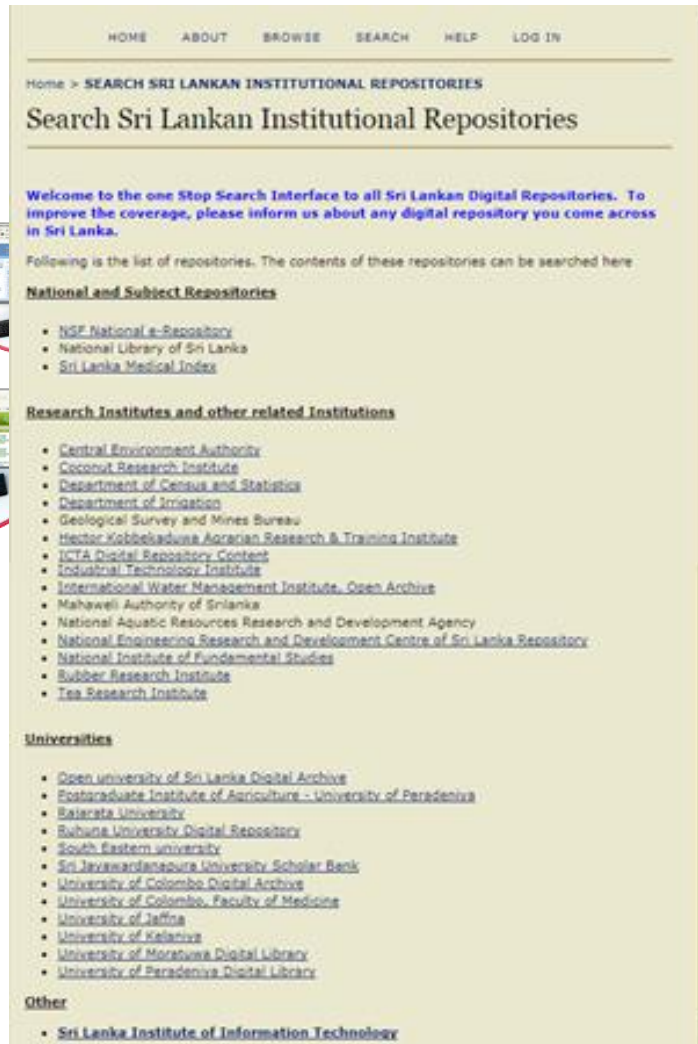
Other

- [Sri Lanka Institute of Information Technology](#)

1. National Science foundation
(central point)
2. Universities
3. Research institutions
4. Service organizations & other
Science & Technology
Institutions

Total number of Items in the National Network is
over 80,000

PROJECT OUTPUT



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- [Babata University](#)
- [Bubuna University Digital Repository](#)
- [South Eastern university](#)
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- [University of Colombo Digital Archive](#)
- [University of Colombo, Faculty of Medicine](#)
- [University of Jaffna](#)
- [University of Kelaniya](#)
- [University of Moratuwa Digital Library](#)
- [University of Peradeniya Digital Library](#)

Other

- [Sri Lanka Institute of Information Technology](#)

NATIONAL NETWORK OF INSTIUTIONAL REPOSITORIES

- National Network of e-repositories
- Collective literature output
- Scholarly literature of local origin
- online access - quick and easy - Full text

OFFERING FACILITIES

- Resource discovery
- Resource sharing
- Federated searching

TO PROMOTE

- Avoid duplication of research
- Productive research
- Inventions & Innovations
- Social & Economic Development

SUPPORT PRESERVATION

- ⦿ Provide access to digital surrogates of rare /fragile objects (*Prevents the original being used often/ Prevents from being damaged*)
- ⦿ Not a substitute for traditional preservation.

DIGITIZATION – IMPORTANT POINTS

- ◉ **Identification of Material for Digitization**
- ◉ **Copy Right**
- ◉ **Quality control of the digitized files**
- ◉ **Resource Discovery – Search Interface – Search ENGINE**
- ◉ **Decide on the Access policy**
- ◉ **Disaster recovery & Restoration of the system**

SHOULD LIBRARIES DIGITIZE ALL THEIR COLLECTIONS?

- Not all collection are worth /practical digitizing
- Careful planning & evaluation is required
- Selection criteria for digitization
 - Intellectual content
 - **COPY RIGHT**
 - Usage of the material - Demand for items
 - Items that bring greatest benefits to the users.
 - Importance/value of the collection
 - Nature & the condition of the collection

COPYRIGHT

CARETAKING OF COPYRIGHTED MATERIAL

- ◉ Copyright is a confusing body of rules
- ◉ Copyright law differs from country to country (*Sri Lanka: Intellectual Property Right Act no. 36 of 2003*)
- ◉ Copyright law applies to both the author & the user
 - Information on the copyright status of the material metadata record
 - Licensing scheme - Creative Commons?
 - Prevention of Unauthorized Access
 - Access limited to registered users or users logging in from authorized IP addresses
 - Charging mechanism
 - Application of technological tools

TYPES OF OUTPUT FILES

To be selected based on the purpose

- **TIFF**
 - JPEG2000
 - MPEG-1
 - MPEG-2
 - JPEG
 - PDF
-
- **Master file - Each document is saved as a TIFF file - preservation**
 - acceptable format for saving archival master copies of digital images
 - Large high resolution & high quality files

 - **Files for online access by users – smaller files – less download time – JPEG, PDF**

OPTICAL CHARACTER RECOGNITION

- ⦿ Page generated with an optical scanner or a digital camera is a graphic file - computer can't read the words on the page like we can.
- ⦿ OCR is the process of turning a picture of text into text
- ⦿ scanned JPG of a printed or handwritten page → produce a TXT or DOC file
- ⦿ software (program) automatically analyze printed text and turn it into a form that a computer can read
- ⦿ OCR file - search through by keyword, edit with a word processor, incorporate it into a Web page

QUALITY CONTROL OF THE DIGITAL PRODUCT

- Two types of files

Image file (type written material, hand written/drawn material etc.)

OCR (Optical Character Recognized) Text file

Image of page on the upper layer
– identical to the original page

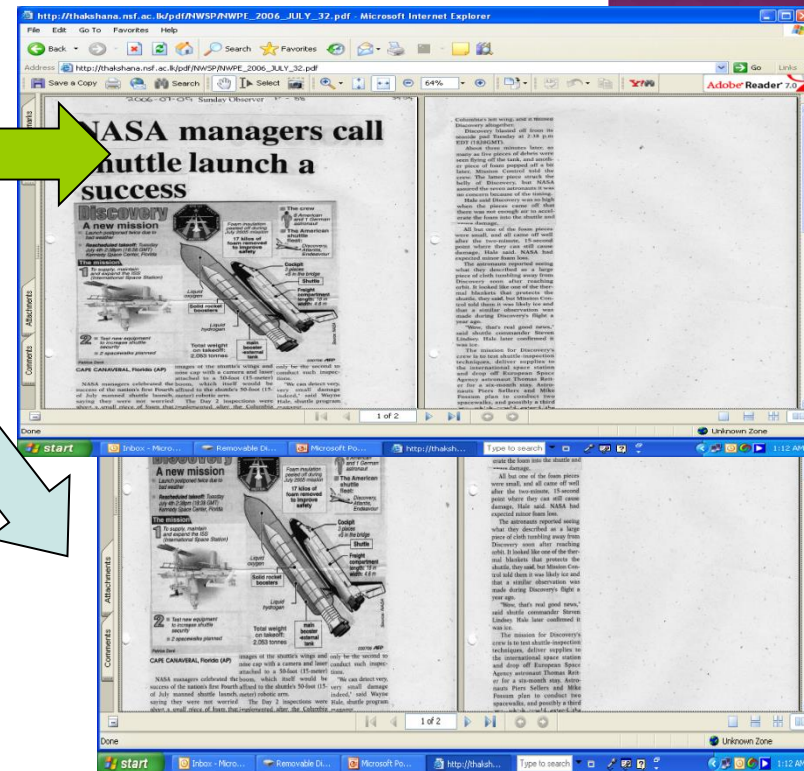
Full Text searchable text
Running underneath

- Quality of the digital file

- Resolution - 300 dpi

- Accuracy of content - 98.5% ensured

- Cleaned up enhanced clearly readable image, dynamic threshold capabilities for optimum images



ORGANIZE TO FACILITATE SEARCHABILITY

- Search/Find
- Accessibility
- Download
- Print
- Distribution

- Index,
- Catalog and
- Add metadata
- Database
 - Metadata records (describes the information content in the database)
 - Ease of use & functionality
 - Content finding tools & aids
 - Indexes at field level for selection of search terms
 - Title & title words
 - Keywords & phrases
 - Abstract words/content page
 - Help to end user
 - Search time - very fast

SCENARIO IN SRI LANKA NATIONAL NETWORK OF INSTITUTIONAL REPOSITORIES

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- [University of Colombo Digital Archive](#)
- [University of Colombo, Faculty of Medicine](#)
- [University of Jaffna](#)
- [University of Kelaniya](#)
- [University of Moratuwa Digital Library](#)
- [University of Peradeniya Digital Library](#)

Other

COMPOSITION OF THE NATIONAL NETWORK

NSF - 14348	TRI - 1988
IFS - 1583	Open Uni - 1295
HARTI - 1649	SEU - 2327
SL Index Medicus - 2052	Uni. Col. MF - 190
CEA - 14619	Uni. Jaffna - 963
CRI - 2057	Uni Kelaniya - 15617
Dept Census - 368	UM - 6365
Dept. Irrigation	UP - 5994
ITI - 943	
IFS - 1583	
RRI - 1327	



This e-Repository has been established to create global visibility and accessibility to the collective output of scholarly research of Sri Lanka. The repository is maintained by the National Science Foundation and it archives, preserves and offers access to the full text of scholarly literature of Sri Lankan origin. The repository is up dated daily.



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Directory
of
Repositories

Communities in NSF e-Repository

Select a community to browse its collections.

- [1.NSF Funded Research](#) [2105]
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- [3.Conferences and Workshops of Sri Lanka](#) [51]
- [4.Journals Published in Sri Lanka](#) [9590]
- [5.New Submissions](#) [0]
- [6. Chronic kidney disease \(CKDu\)](#) [121]

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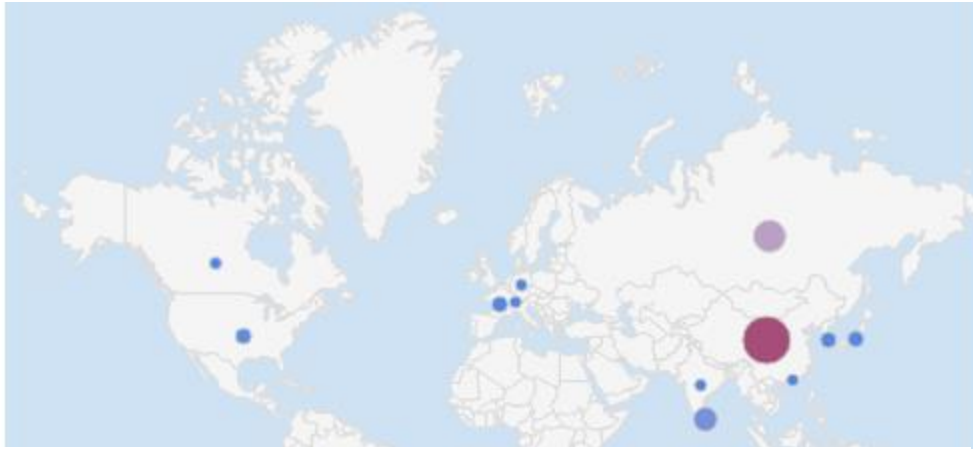
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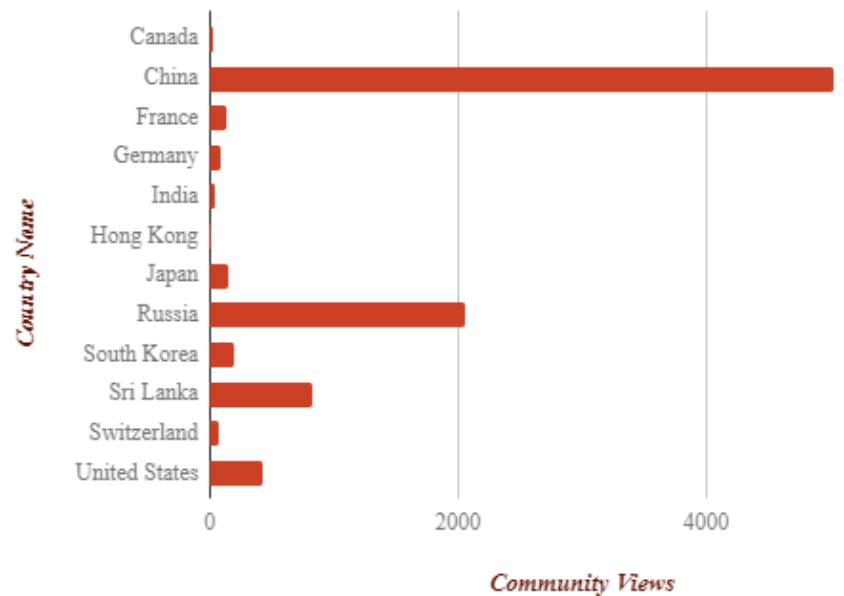
Discover

Author
[Senanayaka, U.M.](#) (67)
[De Silva, H.J.](#) (52)
[Jansz, E.R.](#) (52)
[Karunaratne, V.](#) (50)
[Ratnesarasinghe, W.D.](#) (50)

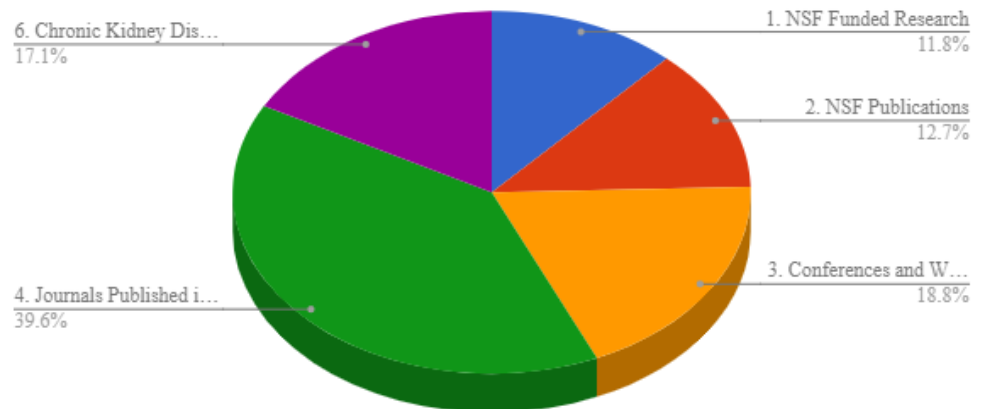
GLOBAL VIEWS TO NSF REPOSITORY



Community Views (January - April 2016)



Community Views as Presentage (Jan -April 2016)



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110V universal battery charging panel using pic microcontroller

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Message:



J. Natn. Sci. Con. Sri Lanka 1981 # (1) :

R203559

SHORT COMMUNICATION

The Aloin Content of Local Aloe Species

E. R. JANSZ, VAJIRA SILVA AND DAMAYANTHI RATNAYAKE

Natural Products Section, Ceylon Institute of Scientific and Industrial Research (CISIR),
P. O. Box 787, Colombo 7, Sri Lanka.

(Date of receipt : 23 July 1980)

(Date of acceptance : 19 March 1981)

Aloin obtained from Aloe species is a mixture of anthrone glucosides and is commonly used as a laxative.¹ The genus Aloe grows profusely, unattended, in the Northern Province of Sri Lanka, notably in the Jaffna Peninsula and the island of Mannar. There are apparent chemical differences in the juice of samples of Aloe collected from those two locations although both belong to Aloe vera Linn. var littoralis Koen² (synonym A. barbadensis L.), and in this communication they will be termed Jaffna and Mannar Aloe.

A previous communication³ described, (i) the identification of the plant, (ii) the solution to the Browning reactions of Jaffna Aloe samples, (iii) a modified method of preparation of aloin from Aloe juice and (iv) the isolation of an aloin (M. P. 136° - 138°C) from Jaffna Aloe juice. In the above investigation, assays were done by the Fairburn method.⁴

In this communication, the screening of the Jaffna and Mannar Aloe for aloin content using the tlc-spectrophotometric method of McCarthy⁵ (which affords the accurate and rapid assay of small quantities of material) is reported along with the use of this test to monitor process losses in the isolation of aloin.

In the screening studies, juice from the 5th, 6th and 7th youngest leaves of each plant (where yield of juice is a maximum) is dissolved in methanol prior to use in the tlc technique. The solvent used was CHCl₃ : Abs. C₂H₅OH (3:1) and aloin was estimated at 360 nm spectrophotometrically.

Assay of aloin content of the juice of individual plants showed that although there was some variation between plants of the same location, the fresh juice of the Mannar Aloe samples had a significantly higher aloin content than those of

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Author(s)

, H M M; [Atapattu, A M](#)

[eera, N](#); [Fernando, A](#)

[eera, N](#); [Medis, W U D](#)

[eera, N](#); [Madanayake, J](#)

[eera, N](#)

, [M G M U](#); [Motha, J T S](#)

HEVEA BRASILIENSIS

OR

PARA RUBBER

ITS BOTANY, CULTIVATION, CHEMISTRY, AND DISEASES,

BY

HERBERT WRIGHT, A.R.C.S., F.R.S.

Controller, Government Experiment Station, Peradeniya, Ceylon.

WITH PLATES AND DIAGRAMS.

COLOMBO:

Messrs. A. M. & J. FRIGGSON,

1905.

[All Rights Reserved.]

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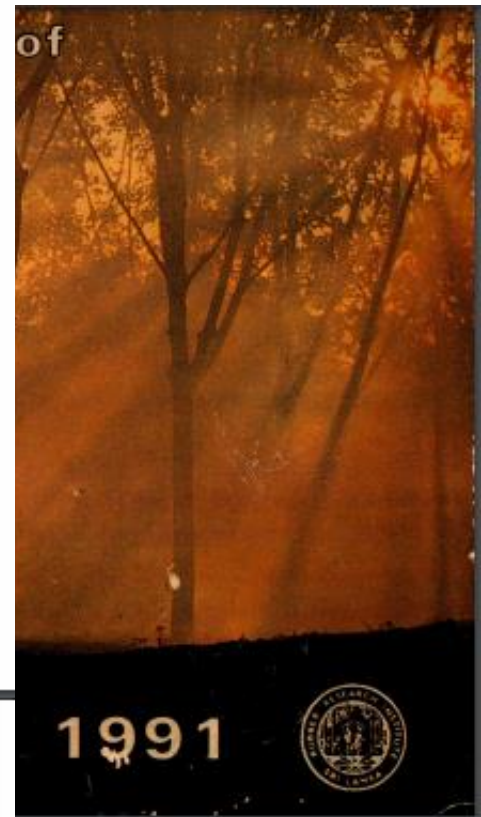
2011

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DIRECTOR'S REVIEW
by L. M. K. Tilakaratne



1991



ANNUAL REVIEW OF
RUBBER RESEARCH INSTITUTE
OF SRI LANKA

ANNUAL REVIEW 1991

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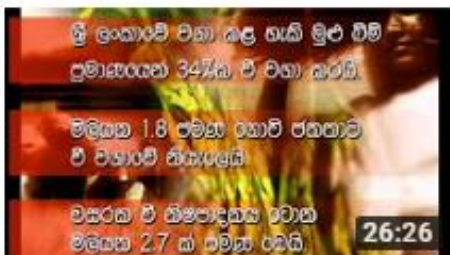
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