



橋本 修 (ぐんま天文台)

Hakim L. Malasan (Intitut Teknologi Bandung, Indonesia)

SEAAN (South East Asia Astronomy Network)

to strengthen the research work and education activities among the **ten member countries** in **South East Asia** (established in **2007**)

- Brunei Darussalam
- Cambodia
- Indonesia
- Lao
- Malaysia
- Myanmar
- the Philippines
- Singapore
- Thailand
- Vietnam

SEAAN meeting, Hanoi December 2016



SEAAN (South East Asia Astronomy Network)
to strengthen the research work and education
activities among the **ten member countries**
in **South East Asia** (established in **2007**)

- Brunei Darussalam
- Cambodia
- **Indonesia** **ITB** + LAPAN, ITERA, etc.
- Lao
- Malaysia
- Myanmar
- the Philippines
- Singapore
- **Thailand** **NARIT**
- Vietnam

The establishment of SEAAN

- Proposed in the **SPS 5, the 26th IAU General Assembly** in Prague, August 2006
- 1st SEAAN meeting ⇒ in conjunction with **Siam Physics Congress (SPC)**, Thai National Astronomical Meeting (TNAM), 22-24 March 2007 in Bangkok
- **Aim:** To establish effective mechanism for **nurturing and sharing** the development and experiences in astronomy research and education among South-east Asian countries

Motivators

- Commissioning of National Astronomical Research Institute of Thailand (NARIT) in 2004
- Plan and construction of a 2.4-m diameter advanced reflecting telescope at Dai Inthanon National Park, Chiang Mai, Thailand
- The 1st International Olympiad in Astronomy and Astrophysics (IOAA), December 2007 in Thailand, follow by the 2nd IOAA, August 2008 in Indonesia

File Edit View Favorites I » Address F:\EAMA-7\Faculty of Mathematics and ... Go

Institut Teknologi Bandung

Observatorium Bosscha ITB

Fasilitas | Kunjungan | Buku Tamu

INFORMASI BARU

7-Feb-2003

Pantau Kecepatan Akses

Untuk memantau kecepatan akses situs web Obs. Bosscha ITB, di bagian kiri bawah tercantum counter. Penting diingat, nilainya bervariasi dari satu tempat ke tempat lainnya.

7-Feb-2003

Wajah Baru Situs Bosscha ITB

Situs web Obs. Bosscha ITB memiliki wajah baru. Mohon maaf, untuk sementara waktu fasilitas buku tamu belum dapat digunakan.

Selamat Datang di Situs Web Observatorium Bosscha ITB



Nama Observatorium Bosscha diberikan sebagai penghormatan kepada **K.A.R. Bosscha** yang pada tahun 1923, dengan bantuan dana dan refraktor ganda 60 cm serta instrumen lainnya, memungkinkan pendirian observatorium ini. Saat ini, Observatorium Bosscha masih merupakan satu-satunya observatorium besar di Indonesia dan berada di bawah administrasi Institut Teknologi Bandung.

Observatorium Bosscha ITB
Lembang, Bandung, 40391
Telp/Fax: 022-2786001
E-mail: bosscha-itb@bdg.centrin.net.id
Homepage: <http://www.bosscha.itb.ac.id>

0 detik

Hak Cipta & Desain © 2003, Observatorium Bosscha ITB

4 Aug 2008

asteroids), orbit calculation of hazardous objects and extra solar planets.

7

Bosscha Observatory

Institut Teknologi Bandung, Indonesia



Bosscha Observatory



Bosscha Observatory

60cm double refractor



Bosscha Observatory



Timau National Observatory, Indonesia

Current Progress - Mid 2017



The observatory will be equipped with **4-meter class optical telescope**, sub-meter telescopes, solar telescopes. Medium sized radio telescope is also planned.

LAPAN and ITB have discussed with Kyoto University about the possible realisation of the main telescope.

Segmented mirror technology is considered to be suitable: lightweight, agile, reliable, and easier to maintain.

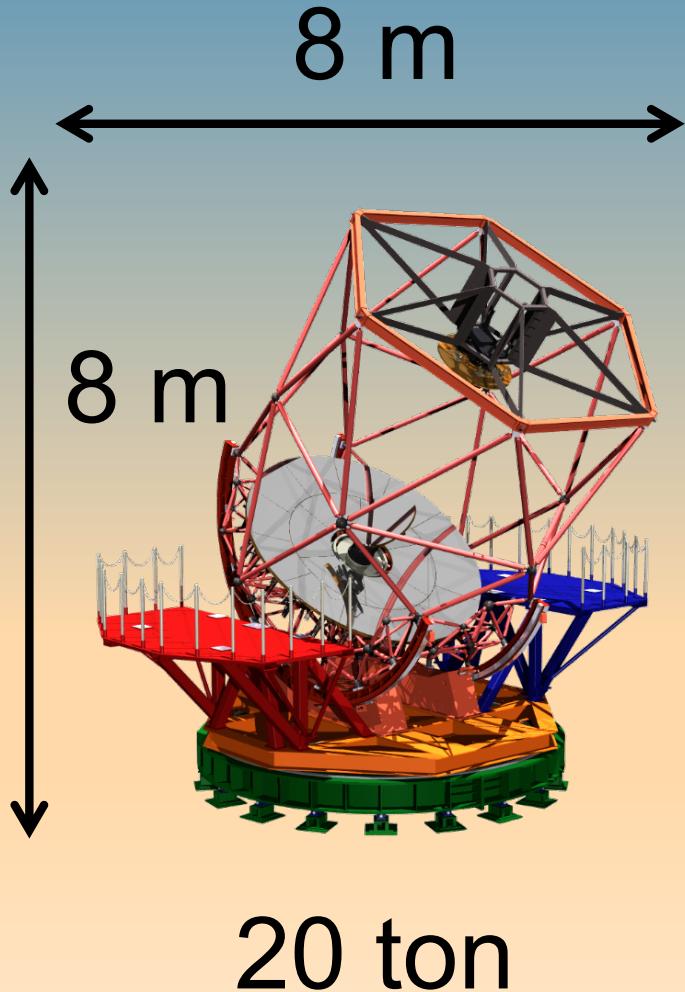
- Procurement process: mid 2017.
- First light: 2020.

First generation instruments (tentative) include modest CCD imager, fast camera, and medium resolution spectrograph.

A new national observatory will be built at **Mt. Timau, East Timor, Indonesia** where clear sky fraction reaches 70%.

Ministry of Environment and Forestry just granted permission to use conservation area.

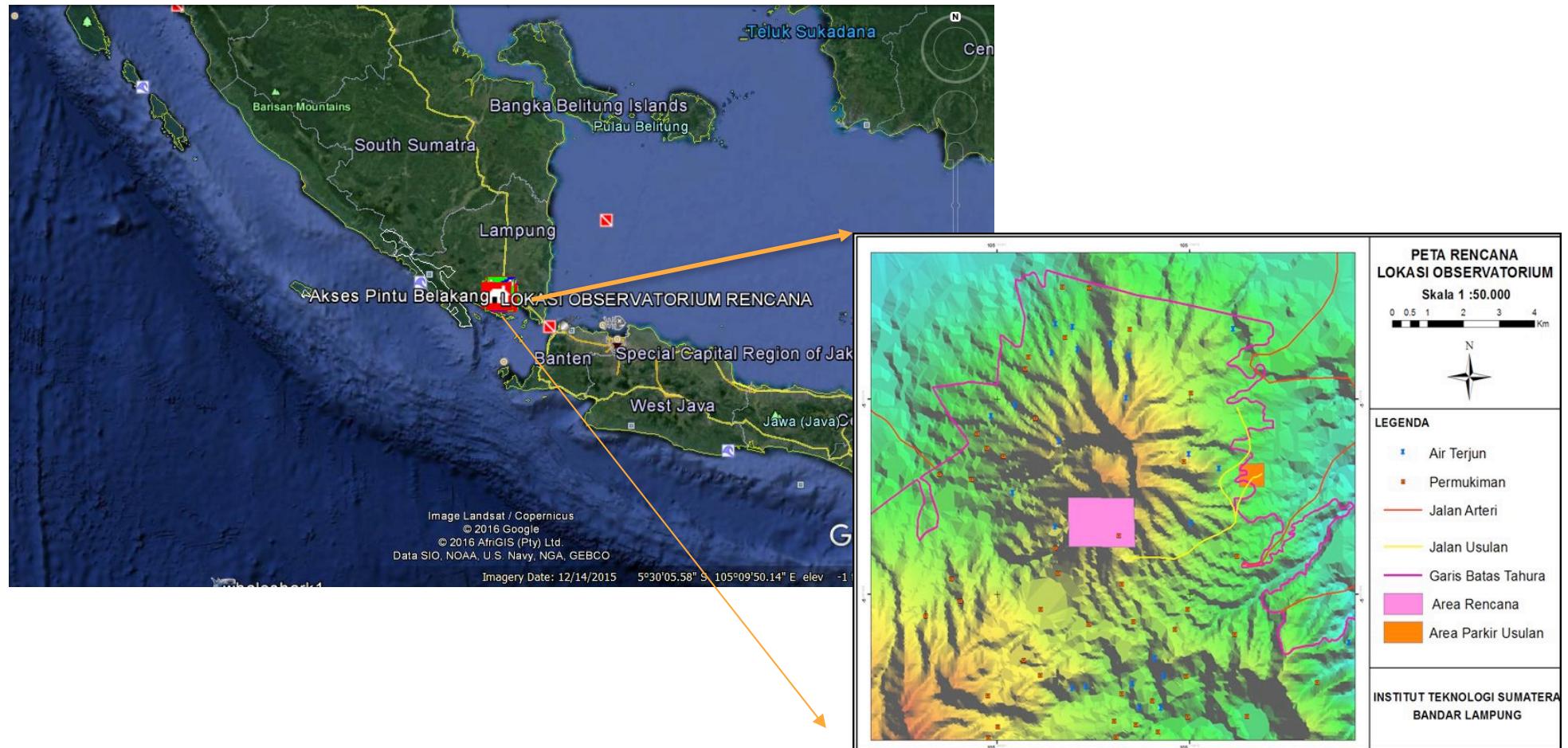
Outline of the Telescope

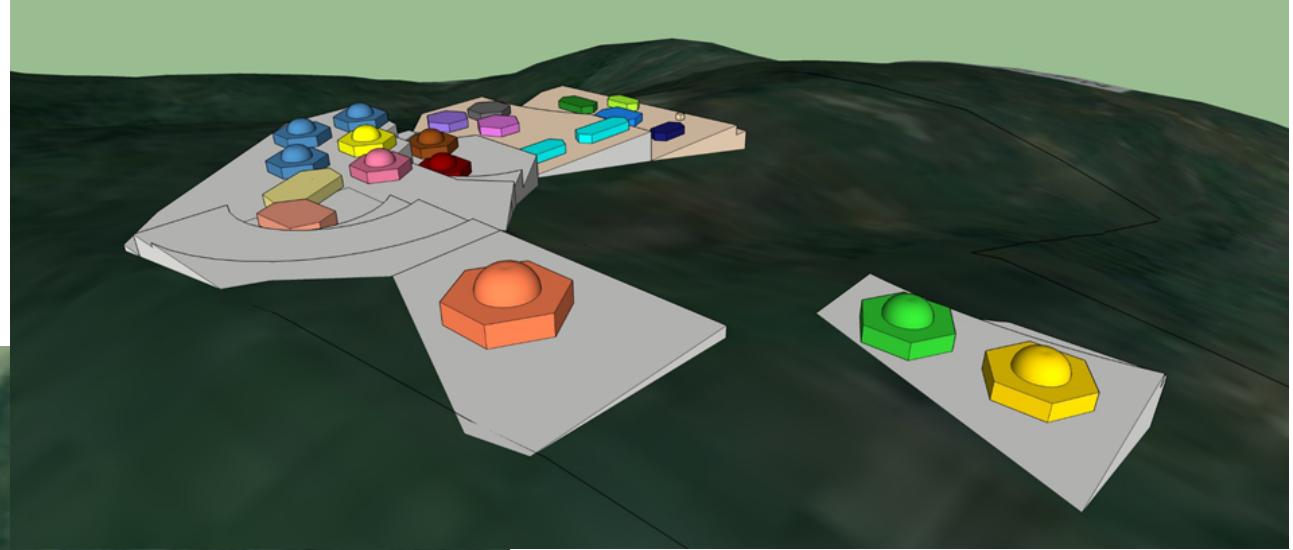


Aperture:	3.8 m
Focus:	Nasmyth × 2 F/6
Field of view:	10' , 1°
Observational	
Wavelength:	0.4 to 4.2 um
Adaptive Optics:	Near-infrared
Pointing speed	< 1 min (whole sky)
Elevation speed	2°/s
Azimuth speed	3°/s

**Collaboration with
Kyoto University (Japan)**

IAO-ESSECS : ITERA Astronomical Observatory, Earth and Space Science Education Center in Sumatera





International Lunar Observatory Association

Galaxy Astronomy from the Moon



ILOA / Space Age Publishing Company
Hawai'i and California, USA

- Galactic / Inter-Stellar
- Earth – Moon / Inter-Global
- Hawaiian
- Multi-Functional

ILO-1: Observation & Communication From the Lunar South Pole





International Lunar Observatory Association
65-1230 Mamalahoa Highway, Suite D20
Kamuela, Hawai'i, USA



Institut Teknologi Bandung
Jl. Tamansari No. 64,
Bandung 40116, Indonesia



Skyworld TMII
Taman Among Putro Skyworld Indonesia,
Jalan Taman Mini Raya, Lubang Buaya, Cipayung,
Kota Jakarta Timur, Daerah Khusus Ibukota Jakarta 13810, Indonesia



7/26/17

Galaxy Forum Beijin

Research with ILO-1

- Multiwavelength imaging of Galaxy
- Earth observations
- Search for Earth-like planets
- Observe signs of life in the Solar System on Europa, Titan, etc
- Search for dangerous NEOs
- Solar-Terrestrial observations

Education with ILO-1:

- ❖ Distant learning
- ❖ Virtual Obs
- ❖ Remote observation by high school pupils

The slide has a dark background with a large, detailed image of the Moon in the center. Overlaid on the bottom right of the Moon is yellow text that reads "By : Dr. Chatief Kunjaya". In the bottom left corner, there is a logo for "UNIVERSITAS MA CHUNG" featuring three blue wavy lines above the text. In the top right corner, there is a logo for "INTERNATIONAL LUNAR OBSERVATORY ASSOCIATION" which includes a stylized telescope icon.

Possible Utilization of ILO-1
for Students

INTERNATIONAL
LUNAR +
OBSERVATORY
ASSOCIATION

By :
Dr. Chatief Kunjaya

UNIVERSITAS
MA CHUNG

www.free-power-point-templates.com

Galaxy Forum Beijing 2017

NATIONAL INSTITUTE OF AERONAUTICS AND SPACE

SPACE SCIENCE APPLICATION CENTER

JI. DR. Junjunan 133, Bandung

Solar Activity, Space Environment, Satellite Orbital Perturbation, Geomagnetic and Space Magnetic, Ionospheric Dynamic, Middle and Upper Atmospheric Dynamic, and Early Warning System of HF Radio Communication



•H-ALPHA TELESCOPE
•SUNSPOT TELESCOPE

Mar 91 H α SOLAR FLARES MARCH 1991												
Grp #	Start Sta	Max Day	End (UT)	NOAA/ USAF				Dur (Min)	Imp	Obs	Time (UT)	Apparent Corr
				Lat	CMD	Region	No Day					
0520	25	0316	03099	0324	S28	W02	6555	03 25.0	8	SN		100 1.1 D
	YUNN	25	0305E	0309	S23	S27	W03	6555	03 24.9	18D SN	P	157 1.7
	PEKG	25	0316	0318	0325	S28	W02	6555	03 25.0	9 SF	C	0318 42 0.5 D
0521	TACH	25	0412	0412	S13	E39	6558	03 28.1	6	SB	2 C	0412 61 0.8 EJ
0522		25	04273	04358	0452	S16	E42	6558	03 28.4	25 SN	P	49 0.7 DEJ
	PEKG	25	0427	0435	0448	S17	E43	6558	03 28.4	21 SF	P	0435 42 0.6 D
	TACH	25	0430	0443	0456	S16	E40	6558	03 28.2	26 SB	2 C	0443 56 0.8 EJ
0523		25	04373	04392	0446	S26	W06	6555	03 24.7	9 SN C 2.9	C	44 0.7 DZ
	TACH	25	0437	0439	0465	S24	W06	6555	03 24.7	8 SB	2 C	0439 61 0.7 DZ
	LEAR	25	0440	0441	0467	S28	W06	6555	03 24.7	7 SF C 2.9	3 E	26
0524	YUNN	25	0514	0602	0658	N14	W88	6555	03 18.6	104	C	A
0525		25	05247	05326	0604	S84	W09	6555	03 24.5	40 1N M 1.5	C	305 3.7 EFZ
	URUM	25	0525	0532	0550	S28	W09	6555	03 24.5	31D 1B	P	402 4.5 E
	YUNN	25	0527	0532	0602D	S26	W09	6555	03 24.5	35D 1B	P	362 4.0 F
	TACH	25	0527	0532	0602	S23	W09	6555	03 24.5	35 1F	2 C	0532 316 3.4 EZ
	LEAR	25	0527	0532	0605	S27	W10	6555	03 24.4	43 1B M 1.5	3 E	174
	PEKG	25	0530	0534	0610	S27	W09	6555	03 24.5	40 1B	P	0538 378 4.2 E
	WATU	25	0531	0537	0652	S27	W10	6555	03 24.4	21 1F	C	0537 200 2.2 F
0526		25	08022	08105	0836	S26	W03	6555	03 25.1	34 2B X 5.3		1026 13.0 FHI
	SVTO	25	0801	0811	0839	S25	W03	6555	03 25.1	38D 1B X 5.3	2 E	224 FH
	YUNN	25	0801	0812U	0838	S27	W03	6555	03 25.1	37D 3B	P	0812 1886 20.8 F
	ATHN	25	0802	0815	0825	S23	W02	6555	03 25.2	23 2B	3 V	0815 700 7.5
	WATU	25	0804	0810	0829	S28	W03	6555	03 25.1	25 2B	C	0810 960 10.6 FI
	ABST	25	0804	0811	0837	S27	W05	6555	03 24.9	33 1N	C	0811 454 5.0 F
	URUM	25	0805E	0814	0845	S27	W04	6555	03 25.0	400 3B	C	1929 21.2 F



Gunma Astronomical Observatory, Japan

N 36°35' 47", E 138°58' 22"

operated by Gunma prefecture local government

*both for **Scientific research***

*and for **Public education***

150 cm reflector, 65 cm reflector, etc.



Bosscha Observatory, ITB, Indonesia

S 6°49' 32", E 107°36' 58"

operated by Institute of Technology Bandung (ITB)

*for **Scientific research & University education***

*and also for **Public education***

60 cm refractor, 45cm reflector, etc.



ITB and GAO



Signing ceremony on 1 July, 2002 at GAO

Signing ceremony on 1 July 2007 Attendances from ITB

Dr. Kusmayanto Kadiman	Rector
Dr. Taufiq Hidayat	Chair, Dept. of Astronomy
Dr. Moedji Raharto	Director, Bosscha
Observatory	
Dr. Hakim L. Malasan	Coordinator
Dr. Dhani Herdiwijaya	Secretary
Dr. Suhardja D. Wiramihardja	
Dr. Premana W. Premadi	
Dr. Chatief Kunjaya	
Prof. Bambang Hidayat	

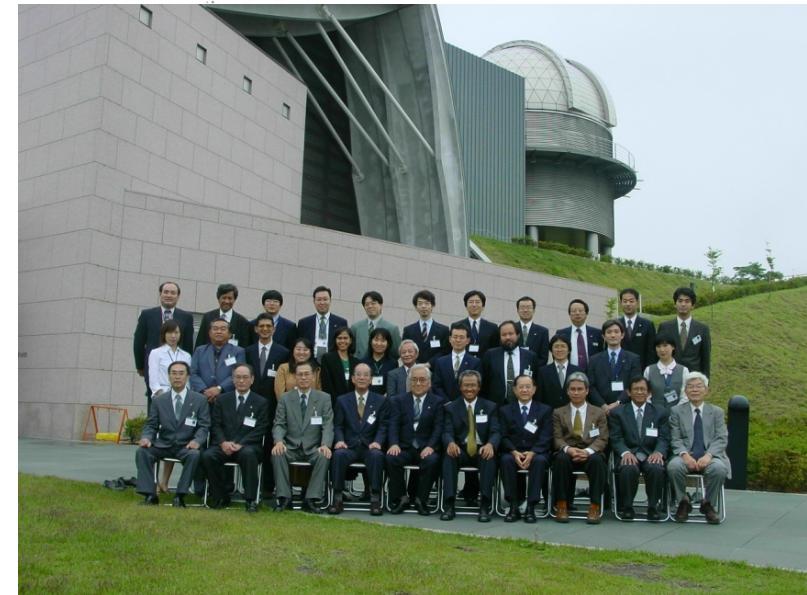


MEMORANDUM OF AGREEMENT

Between
GUNMA ASTRONOMICAL OBSERVATORY
Gunma Prefecture, 6860-86 Nakayama, Takayama, Gunma, JAPAN
and
INSTITUT TEKNOLOGI BANDUNG
Jalan Tamansari No.64 Bandung 40116, INDONESIA

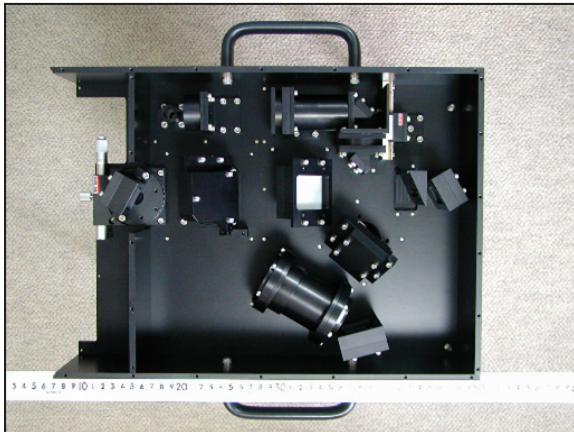
1. Due to their geographical locations, expertise in research and education, academic diversity and dedication to public service, Gunma Astronomical Observatory and Institut Teknologi Bandung, within their respective countries are in an excellent position to cooperate in the fields of Observational Astrophysics and Science Education programs.
2. The undersigned recognize that collaborative efforts will be of mutual benefit and will contribute to an enduring international linkage of aforementioned institutions for both scientific cooperation and assistance.
3. The said parties cooperate in the field of astrophysics and science education. This cooperation will take place on the basis of equal footing and mutual benefit, and under the name *Japan-Indonesia Astronomical Research and Education*.

Gunma, 1 July 2002



Gunma Compact Spectrograph (GCS) and Bosscha Compact Spectrograph (BCS)

Compact spectrographs for 45 - 65cm telescopes of both GAO and ITB

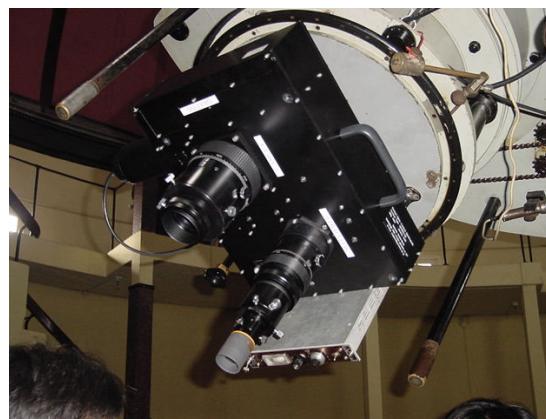


Inside view of GCS/BCS

- Type : slit and plane grating
- Slit width : 80 um
- Slit length : 20 mm
- Grating : 300 or 1200 gr./mm
- Resolution : 500 or 2000
(at 500 nm)
- Comparison lamp : Fe-Ne-Ar
- Collimator : lens system f = 240 mm
- Camera : lens system f = 200 mm
- Size : 30 cm(D) x 20 cm(W) x 27 cm(H)
- Weight : 15 kg

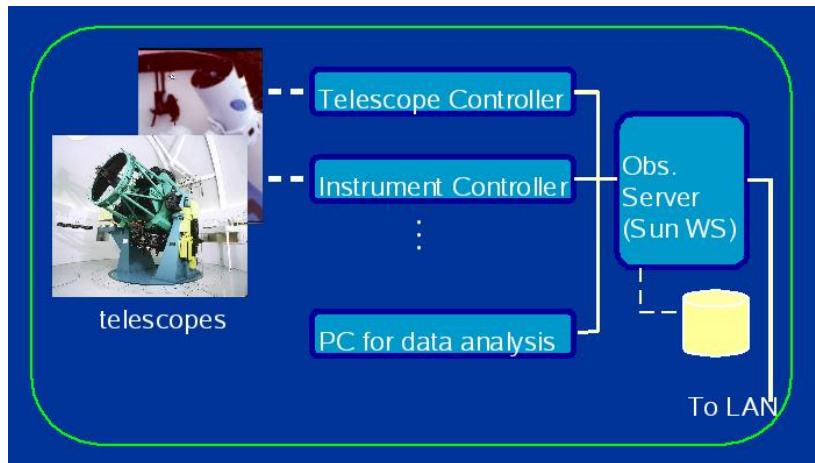


GCS
on the GAO 65 cm
reflector



BCS
on the 60 cm
refractor at
Bosscha
Observatory, ITB

Sharing of the observation data and reduction/analysis methods



Schematic view of the data flow of the observation. Data obtained in our cooperative observations are stored as archive for further reduction and analysis by both of us.

Similar computer systems have been built both at ITB and GAO for sharing the observation data and reduction/analysis methods



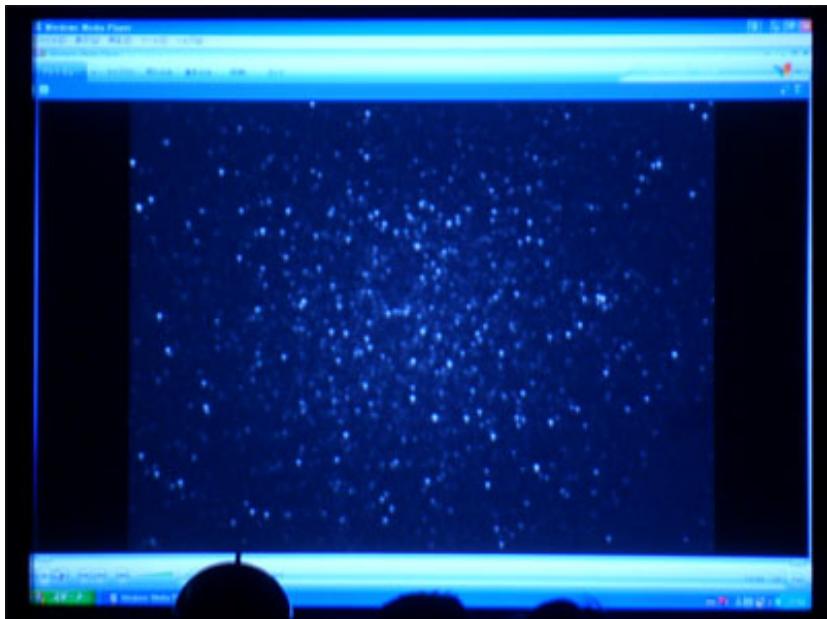
at ITB



at GAO



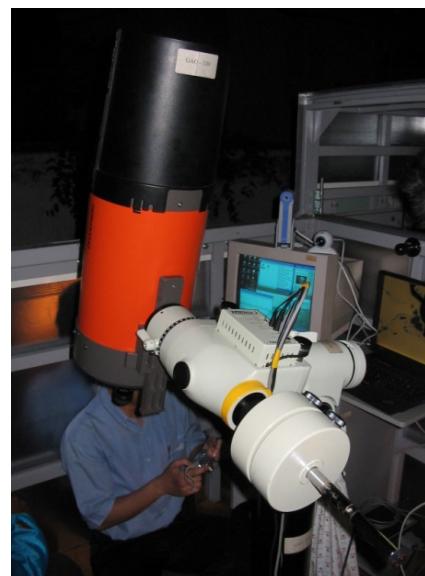
Remote telescope system between ITB and GAO



Omega Centauri seen at GAO through
the remote telescope system from
Bosscha Observatory



GAO,
Japan



Bosscha,
Indonesia

Telescopes used for the remote access
system between ITB and GAO

*Provides opportunities for astronomical experiences of the
opposite hemisphere for various people of each country*

Remote access program for public people between ITB and GAO

**Opportunities for astronomical experiences of
the opposite hemisphere from each country**



About 100 people gathering at GAO in Japan for the remote star observation of the southern hemisphere at Bosscha observatory in Indonesia.



A real time image of southern stars projected on the screen at the lecture room of GAO. Alpha & Beta Centauri and the Southern cross are seen.



GAO-ITB remote telescope at Bosscha Observatory



Extension of MoA July 2007 at Bandung



Proceedings

of GAO-ITB Joint Workshop

in Astronomy and Science Education



**Basic Science Center A, ITB Campus
Bosscha Observatory, Lembang
July 4-6, 2007**



INSTITUT TEKNOLOGI BANDUNG



Proceedings

of GAO-ITB Joint Workshop

in Astronomy and Science Education

Basic Science Center A, ITB Campus
Bosscha Observatory, Lembang
Indonesia
July 4-6, 2007

Editors

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Astronomy Research Group and Bosscha Observatory, Institut Teknologi Bandung, Indonesia

and

Osamu Hashimoto
Gunma Astronomical Observatory, Japan

Technical Editor

Evan I. Akbar
Astronomy Study Program, Institut Teknologi Bandung, Indonesia

NARIT

**National Astronomical Research Institute of Thailand
(public organization),
Ministry of Science and Technology of Thailand**

- TNO (Thai National Observatory)
240 cm reflector**
- 5 regional observatories for the public**
- TST (Thai Southern Hemisphere Telescope)**
- EVA (Evryscope for the Arctic and Antarctic)**

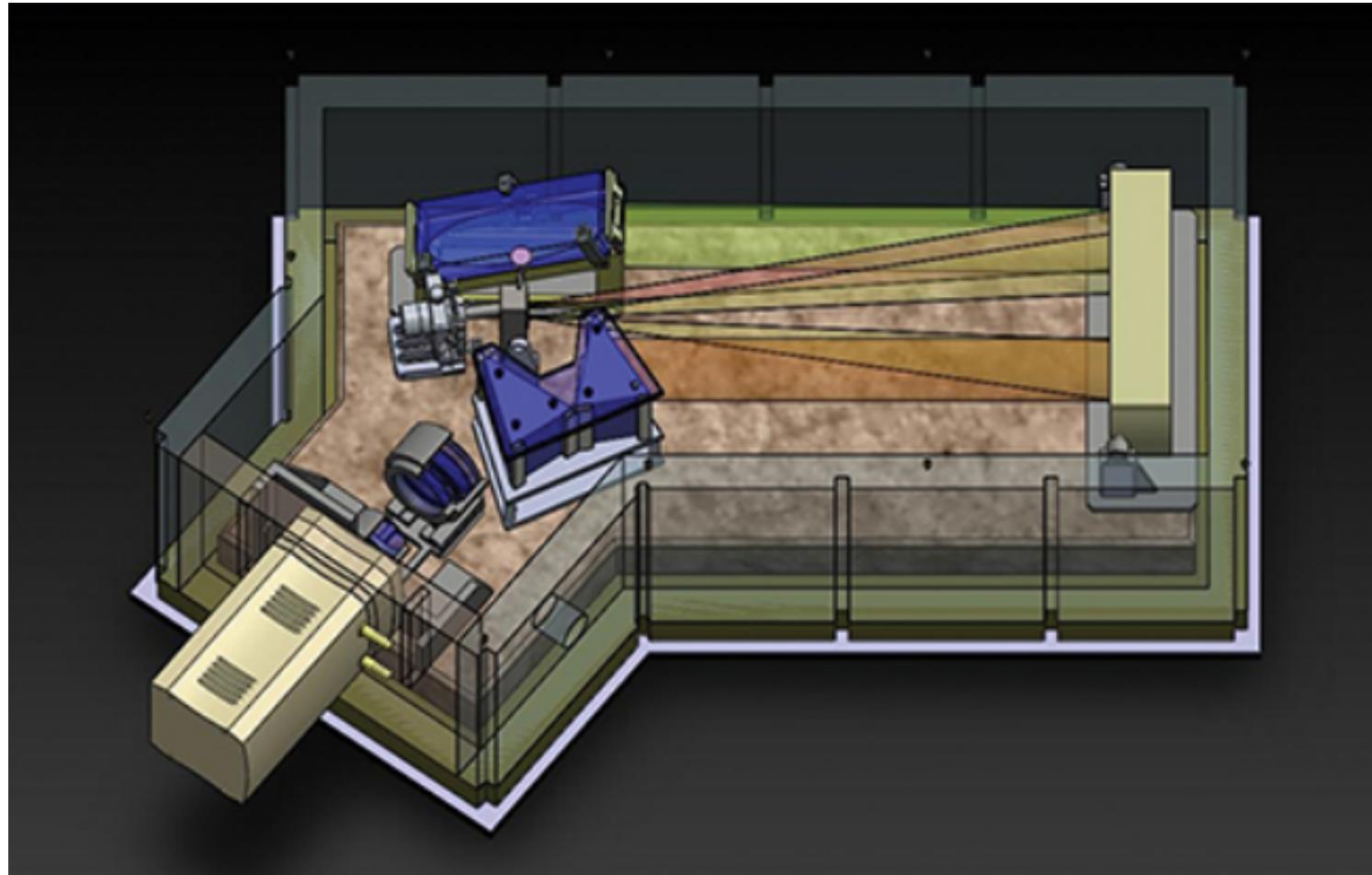
Thai National Observatory (TNO)



240 cm reflector

at 2457 m

Medium Resolution Echelle Spectrograph (MRES)

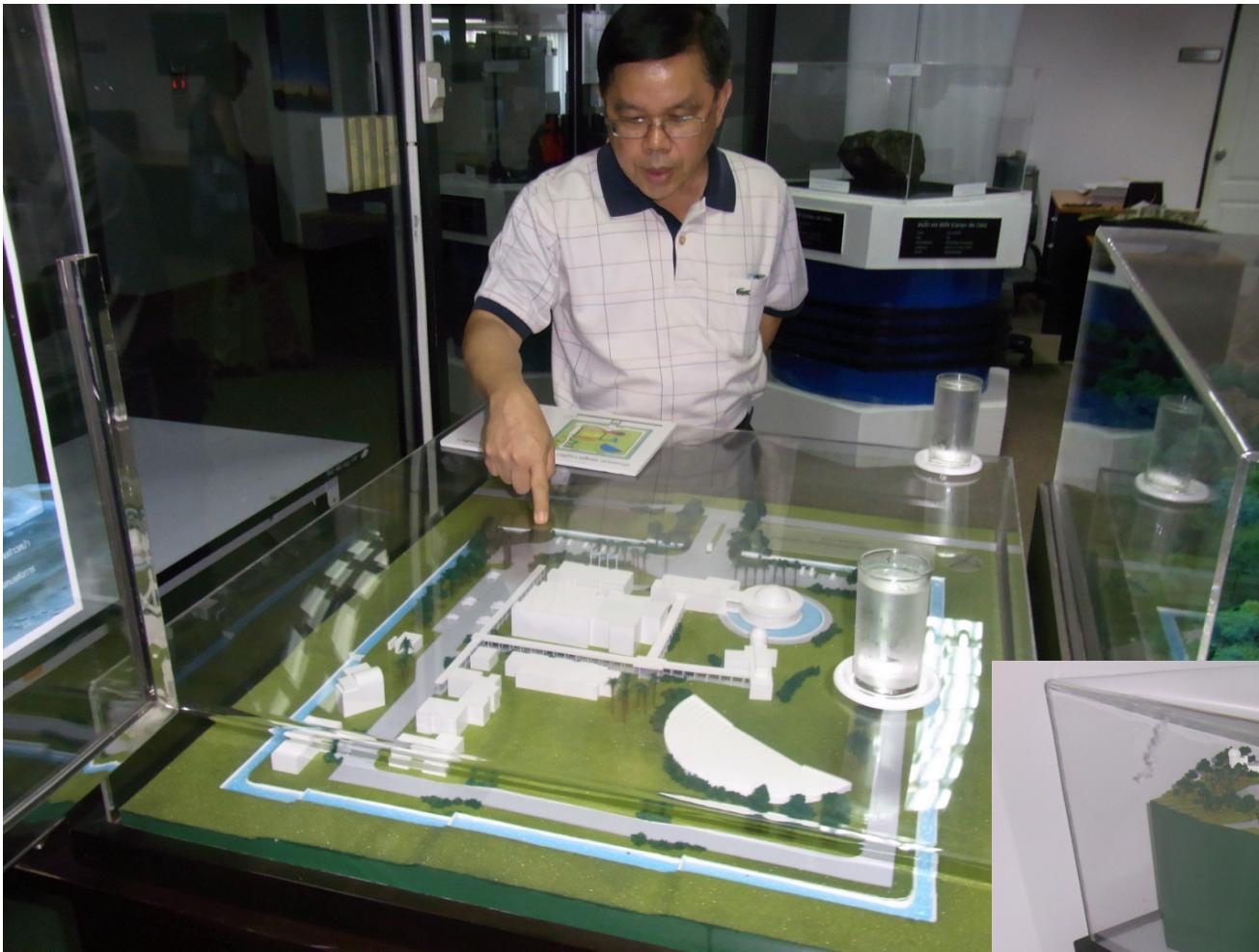


380-900 nm R ~ 18,000

with the Nanjing Institute of Astronomical Optical & Technology
(China)

Regional Observatories for the Public





NARIT

Regional Observatories for the Public

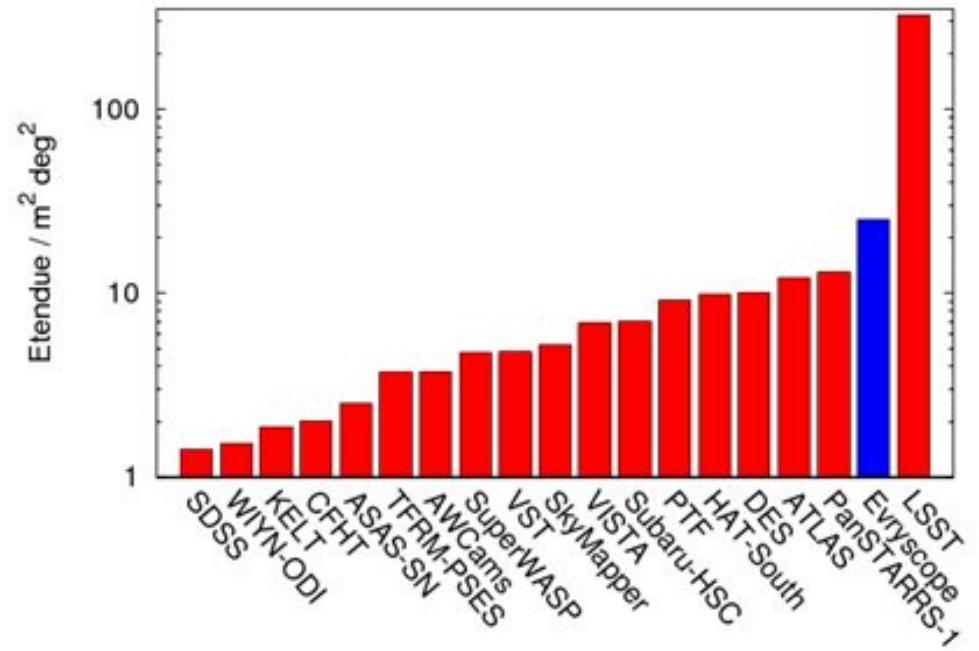
Thai Southern Hemisphere Telescope (TST)



**60cm remote telescope
at Cerro Tololo Inter-American Observatory (CTIO)**

**a part of the POMPT project by
The University of North Carolina at Chapel Hill (USA)**

Evryscope for the Arctic and Antarctic (EVA)



Collaboration with
The University of North Carolina at Chapel Hill (USA)
University of Toronto (Canada)
The University of Sydney (Australia)
University of New South Wales (Australia)

Visitors to GAO from Thailand

11-24 March 2001 from Chiang Mai University

Prof. Boonrucksar Soonthornthum (present NARIT director)

10 July 2002 - 13 February 2002 from Chiang Mai University

A graduate student as a trainee (long stay)

12 July - 30 August 2002 from Chiang Mai University

Prof. Chayan Boonyak

24-25 March 2009 NARIT and high school students

10 high school students, a few teachers and NARIT staff members

15-16 September 2009 from NARIT

Director and 4 NARIT staff members

21-22 March 2013 NARIT and high school students

6 high school students, 4 teachers, 4 NARIT staff members (inc. Deputy Director), and an IPST deputy Director

25 February 2014 Rajabhat Songkla University

President and 4 staff members of the university

25-26 March 2014 NARIT and high school students

7 high school students, 8 teachers, 8 NARIT staff members (inc. Deputy Director), and 3 press crews

10 June 2014 NARIT Board members

Director and 10 board members of NARIT

24 September 2014 NARIT Exposition Study Project

6 members of NARIT Cooperate Communication Department

15 March 2016 NARIT and high school students

8 high school students, 5 teachers, and 9 NARIT staff members

International Collaborations of GAO





Prof. Yoshihide Kozai

Director of GAO

1981-1988 Director of Tokyo Astron Obs.

1988-1991 President of IAU

1988-1994 Director of NAOJ

Sometimes expensive facilities are not used very actively due to the lack of local staff who can use them properly.

Support to the people who **really work** with the facilities is essentially important .

Became an astronomer after WWII
Kept studying with the **support** by US

He has come to think that
Now it is **our turn** to support **Asian countries** for **developing astronomy** in those countries

GAO should be a good method for realizing such his will

Key points

Exchange of human resource
(the most important)

Common understanding by working together

Not only materials

Visitors to GAO

98.05.24-00.05.19	Hakim L. Malasan	Indonesia
98.10.25-98.10.28	Bambang Hidayat	Indonesia
99.09.07-99.09.08	Premana W. Premadi	Indonesia
99.10.18-00.03.10	Wang Tuong Jang	China
99.11.22-99.11.23	Mudumba Parthasarathy	India
99.11.22-99.11.23	C. Simon Jeffery	United Kingdom
00.03.06-00.03.12	Bambang Hidayat	Indonesia
00.03.06-00.03.12	Cynthia P. Celebre	Philippines
00.09.21-00.12.18	Chatief Kunjaya	Indonesia
01.01.25-01.03.01	Hakim L. Malasan	Indonesia
01.03.11-01.03.24	Boonrucksar Soonthornthum	Thailand
01.03.12-01.03.18	Nguyen Ti Vohn	Vietnam
01.04.06-01.11.14	Cynthia P. Celebre	Philippines
01.11.06-01.11.07	I. A. Glass	South Africa
02.01.03-02.03.31	Nguen Anh Vinh	Vietnam
02.01.16-02.02.13	Hakim L. Malasan	Indonesia
02.06.30-02.07.02	Kusmayanto Kadiman	Indonesia
02.06.30-02.07.02	Bambang Hidayat	Indonesia
02.06.30-02.07.02	Taufiq Hidayat	Indonesia
02.06.30-02.07.02	Moedji Raharto	Indonesia
02.06.30-02.07.02	Dhani Herdiwijaya	Indonesia
02.06.30-02.07.02	Hakim L. Malasan	Indonesia
02.06.30-02.07.02	Suhardja D. Wiramihardja	Indonesia
02.06.30-02.07.02	Premana W. Premadi	Indonesia
02.06.30-02.07.02	Chatief Kunjaya	Indonesia
02.07.05-02.07.06	Yousef Sobouti	Iran
02.07.10-03.02.13	Wichean Kariawattanawong	Thailand
02.07.12-02.08.30	Chayan Boonyak	Thailand
02.11.15-02.11.16	John Hearnshaw	New Zealand
02.11.27-02.12.09	Tran Quoc Ha	Vietnam
02.11.27-03.02.24	Cao Anh Tuan	Vietnam
02.12.08	Osuman Demerican	Turkey
03.01.27-03.02.21	Hakim L. Malasan	Indonesia
03.11.15-04.02.04	Hendro Setyanto	Indonesia
03.12.09-03.12.10	Anders Winnberg	Sweden
03.12.30-04.01.08	Yongqiang Yao	China
04.01.07-04.01.15	Jiang Zhibo	China
04.01.07-04.01.15	Chen Xuepeng	China
04.01.10-04.03.12	Cao Anh Tuan	Vietnam
04.01.10-04.03.12	Nguen Anh Vinh	Vietnam

04.10.11-04.11.07	Hakim L. Malasan	Indonesia
05.01.11-05.03.31	Baju Indradja	Indonesia
06.01.17-06.03.28	Budi Dermawan	Indonesia
06.03.09-06.03.10	Han Inwoo	Korea
06.03.09-06.03.10	Kim KangMin	Korea
06.03.09-06.03.10	Lee ByeongCheol	Korea
06.12.16-07.01.08	Hakim L. Malasan	Indonesia
07.01.04-07.02.03	Mochamad Irfan	Indonesia
07.06.23-07.07.03	Desima Kristiyowati	Indonesia
07.10.16-07.10.18	S.D. Wiramihardja	Indonesia
08.01.16-08.03.16	Dario dela Cruz	Philippines
08.03.05-08.03.06	Djoko Santoso	Indonesia
08.03.05-08.03.06	Akhmaloka	Indonesia
08.03.05-08.03.06	Putra Mahasena	Indonesia
08.03.17-08.03.20	Hanindyo Kuncarayakti	Indonesia
08.03.25-08.03.26	Wiphu Rujopakarn	Thailand
08.07.03-08.07.06	Pranabda Luffiansyah	Indonesia
08.11.17-08.12.04	Hakim L. Malasan	Indonesia
08.12.06-08.12.08	Hanindyo Kuncarayakti	Indonesia
08.12.06-08.12.08	Puji Irawati	Indonesia
08.12.05-08.12.08	Agus T. Puri Jatmiko	Indonesia
08.12.06-08.12.08	Rogel Mari Sese	Philippines
08.12.06-08.12.08	Siti Jamiha Mohamado-Yob	Malaysia
08.12.06-08.12.08	Nazhatulshima Ahmad	Malaysia
09.02.09-09.03.09	Dulmaa Altangerel	Mongolia
09.12.15-09.12.16	Boonrucksar Soonthornthum	Thailand
09.12.15-09.12.16	Apichart Leckngam	Thailand
09.12.15-09.12.16	Nuanwan Sanguansak	Thailand
09.12.15-09.12.16	Kanoot Singsai	Thailand
09.12.15-09.12.16	Pramote Chotikong	Thailand
:		
more		

Long period stay at GAO

[Training \(young astronomers\)](#)

(This list is not complete)

Much more people have visited us.....

Visitors to GAO (1999 – 2009)

Country	number of visitors	total (visitor-day)
Indonesia	30	1348
Thailand	13	296
Vietnam	6	322
Philippines	4	221
China	4	178
Korea	4	8
Sweden	3	5
United States	3	4
Malaysia	2	6
New Zealand	2	4
Mongolia	1	28
South Africa	1	2
Iran	1	2
Turkey	1	1
Southeast Asia	55	2193

Trainees from Asian countries (1999 – 2009)

Country	number of trainees	total (visitor-day)
Vietnam	3	214
Indonesia	3	193
Philippines	2	211
Thailand	1	219
China	1	150
Mongolia	1	28

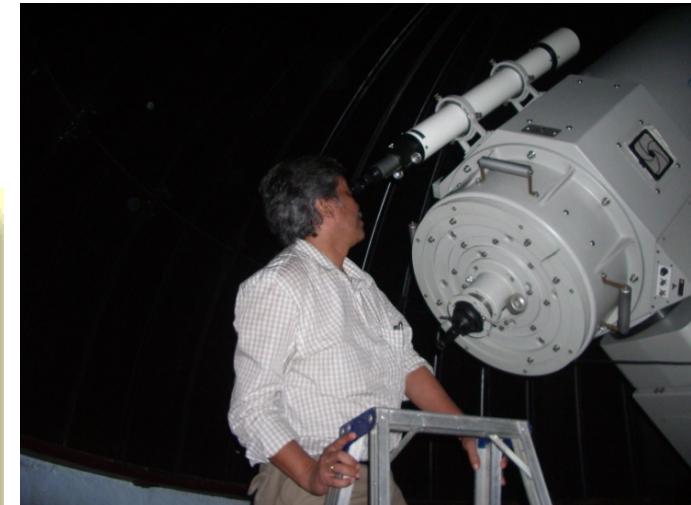
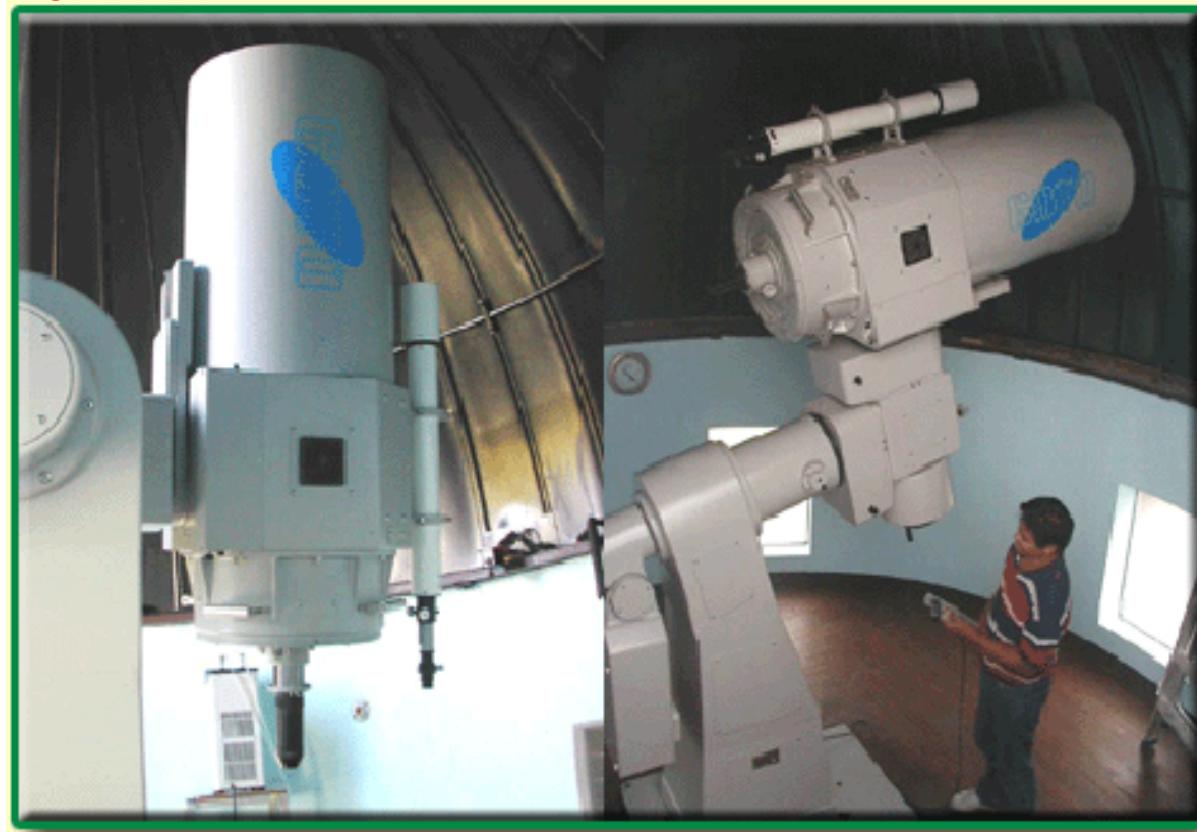
In Philippines

(at PAGASA)

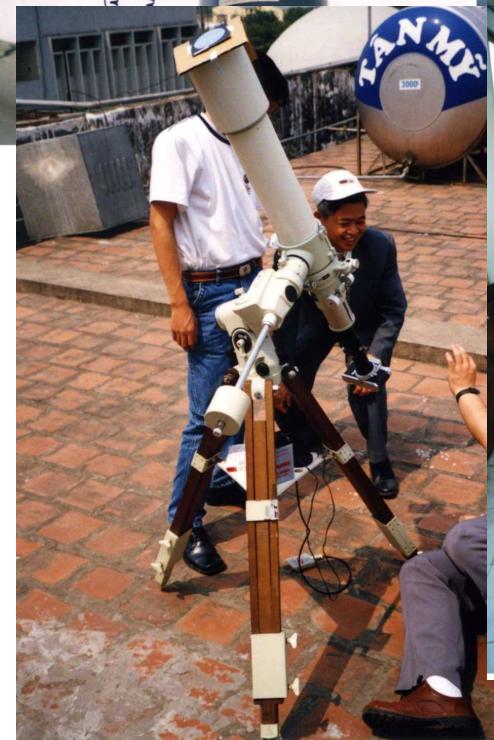
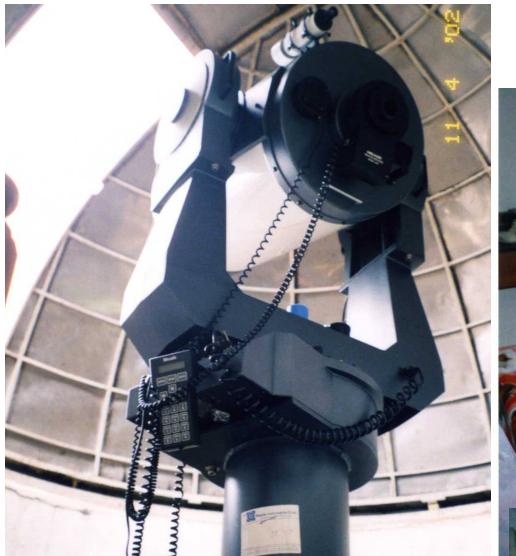


45-cm ($f/12$) classical cassegrainian GOTO reflector equipped with SBIG ST8 CCD camera and spectrograph

Main support for its operation by GAO, JAPAN

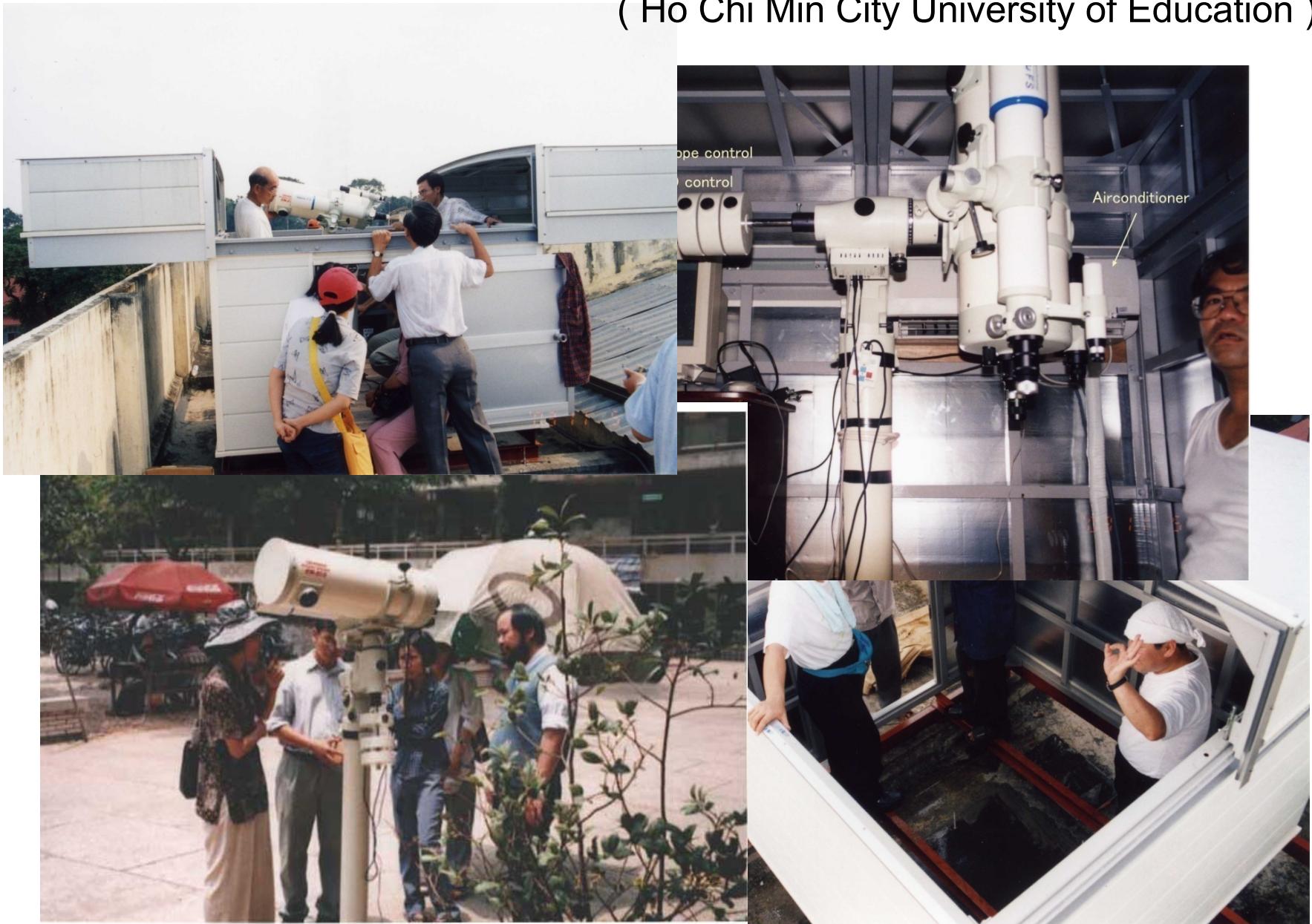


In Vietnam (Hanoi University of Education)



In Vietnam

(Ho Chi Min City University of Education)



South-East Asia Astronomy Network (SEAAN)

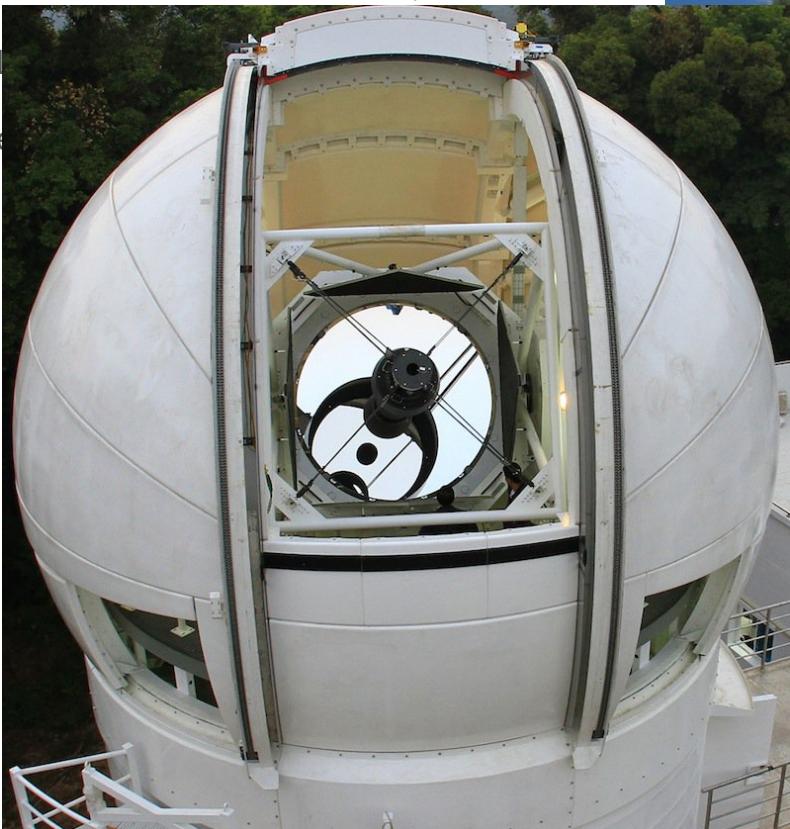
Thailand NARIT 2.4m

Indonesia ITB, Bosscha observatory, WSO

Malaysia Langkawi National observatory 50cm

Philippines PAGASA 45cm

Vietnam Hanoi 40cm, etc.





2nd SEAAN conference

17-18 February 2010
The Philippines

Visitors to GAO

98.05.24-00.05.19 Hakim L. Malasan
98.10.25-S
99.09.07-S
99.10.18-C
99.11.22-S
99.11.22-S
00.03.06-C
00.03.06-C
00.09.21-C
01.01.25-C
01.03.11-C
01.03.12-C
01.04.06-C
01.11.06-C
02.01.03-C
02.01.16-C
02.06.30-C
02.07.05-C
02.07.10-C
02.07.12-C
02.11.15-C
02.11.27-C
02.11.27-C
02.12.08
03.01.27-C



Indonesia

04.10.11-04.11.07 Hakim L. Malasan

Indonesia
Indonesia
Indonesia
Korea
Korea
Korea
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Indonesia
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Indonesia
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Philippines
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Indonesia
Indonesia
Philippines
Malaysia
Malaysia
Mongolia
Thailand
Thailand
Thailand
Thailand
Thailand

03.11.15-04.02.04 Hendar Setyanto
03.12.09-03.12.10 Anders Winnberg
03.12.30-04.01.08 Yongqiang Yao
04.01.07-04.01.15 Jiang Zhibo
04.01.07-04.01.15 Chen Xuepeng
04.01.10-04.03.12 Cao Anh Tuan
04.01.10-04.03.12 Nguen Anh Vinh

Indonesia
Sweden
China
China
China
Vietnam
Vietnam

Place where people flock together !

South-East Asian Young Astronomers Collaboration (SEAYAC)

Established in 2008 at GAO



SEAAN (South East Asia Astronomy Network)
to strengthen the research work and education
activities among the **ten member countries**
in **South East Asia** (established in **2007**)

- Brunei Darussalam
- Cambodia
- **Indonesia** **ITB** + LAPAN, ITERA, etc.
- Lao
- Malaysia
- Myanmar
- the Philippines
- Singapore
- **Thailand** **NARIT**
- Vietnam