



2003

فريساتوان أسترونومي نكارا بروني دارالسلام

PERSATUAN ASTRONOMI NEGARA BRUNEI DARUSSALAM
ASTRONOMICAL SOCIETY OF BRUNEI DARUSSALAM

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PRESS RELEASE

Bruneians Discover 35 New Asteroids

Thursday, 04th November 2021 / 28 Rabiulawal 1443

Bandar Seri Begawan – A total of 35 new asteroids were discovered by groups citizen scientist from Brunei Darussalam as part of an International Astronomical Search Collaboration (IASC) Programme, a National Aeronautics and Space Administration (NASA) affiliated programme.

From September until October, six Bruneian groups comprise of 30 members were working under IASC Asteroid Search Campaign co-organized by the Nepal Astronomical Society (NASO) and the Astronomical Society of Brunei Darussalam (PABD).

During the campaign, participants from Brunei and across the globe used an advanced astrometry software to analyse photographs and real sky data provided by the Panoramic Survey Telescope and Rapid Response System (Pan-STARRS) telescope in Hawaii.

It involved observing the Near-Earth objects and Main Belts asteroids and reporting for unknown asteroid detections. Information from these preliminary findings will be further study which can take up to 5 years to define the asteroids' orbit by professional astronomers.

The preliminary asteroid detections by the six Bruneian teams – the Astronomical Society of Brunei (PABD), Hulubalang Brunei, Laksamana Brunei, Panglima Brunei, Pateh Brunei and Semaun Brunei - were confirmed in reports produced by IASC, Hardin-Simmons University, on Thursday, November 04, 2021.

“We are very hopeful that some of these asteroid early detections by Bruneians will come in the provisional discovery list of IASC,” stated Hazarry bin Haji Ali Ahmad, Secretary General of PABD.

The campaign offers opportunity for people in Brunei to discover new asteroids. It serves to promote scientific research by working on the real time data collected by astronomical observatories to detect any new asteroids.

Hazarry who is also the project manager for the Asteroid Search Campaign encouraged more involvement from Brunei to join the Citizen Science programme. “Next year, PABD will organize the first All-Brunei Darussalam Asteroid Search campaign in collaboration with IASC which will commence from January. It will run regularly and open for citizen scientists and students to enable the discovery and tracking of more asteroids” Hazarry said.

This way, it also inspires a growing interest for science amongst our community especially our students.

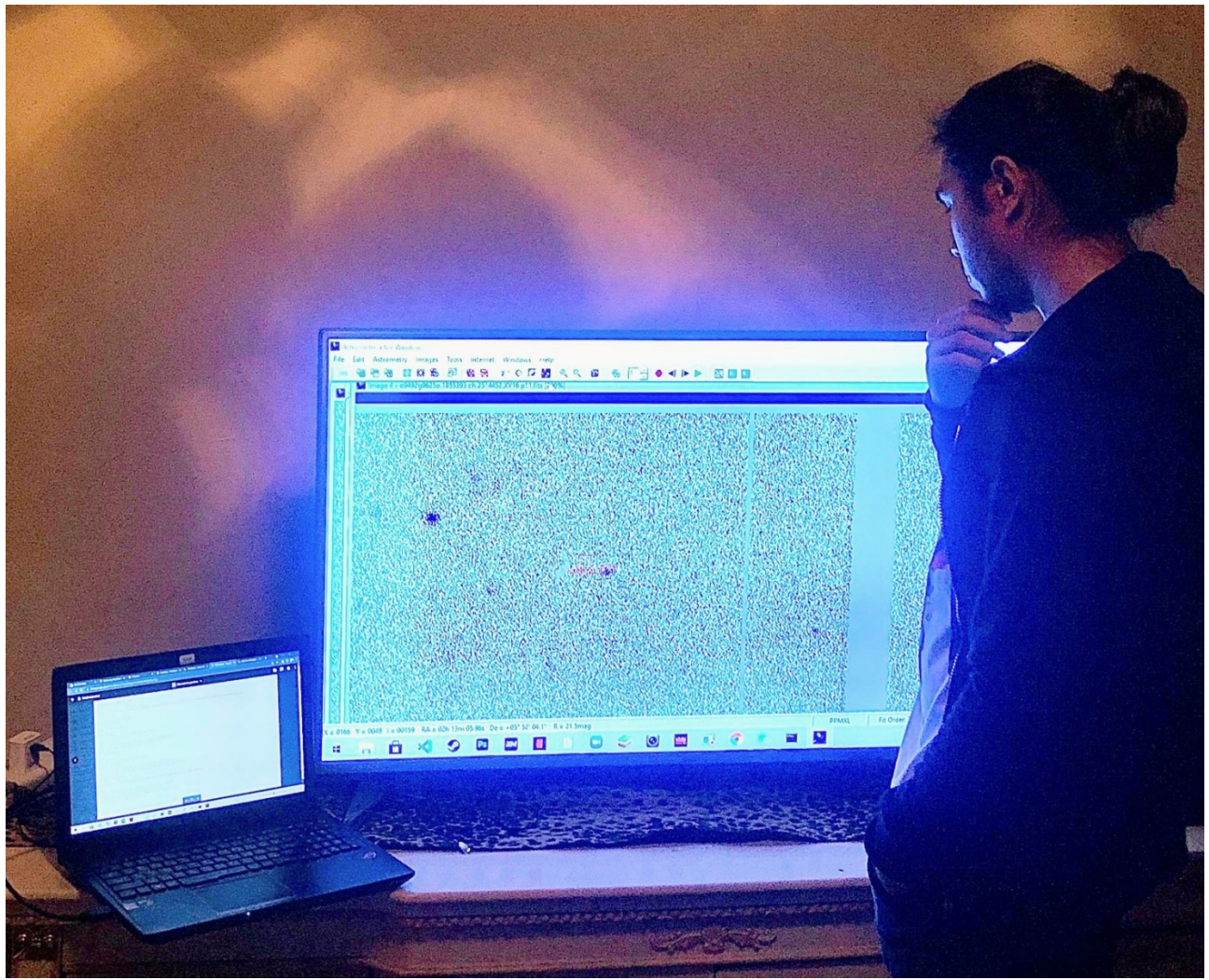
For more information and registration of the asteroid search campaign:

www.bruneiastronomy.org/asteroidsearch

International Asteroid Search Campaign
 October 1 - 27, 2021

Provisional #	Object	Students	School	Location	Status	Date	Linked
Total: 288							
P11lwO		T. Korenblit, V. Caro	Expedición Ciencia	Argentina	Preliminary	09/28/21	ANS0001
P11lwP		J. Kuche, S. Vollmer	Haus der Astronomie	Germany	Preliminary	09/28/21	BHB0001
P11lwJ		Surender, Yochana, Anushka	Open Space Researchers	India	Preliminary	09/28/21	CSTC019
P11lzik		D. Crowson, J. Philpot	Space Rock Hounds	USA	Preliminary	09/28/21	SRH0676
P11lzuH		D. Crowson, J. Philpot	Space Rock Hounds	USA	Preliminary	09/28/21	SRH0675
P11m9Fk		M. Casalis, E. Benvenuto	Astronomical Observatory of Universidad Tecnológica Nacional	Argentina	Preliminary	10/03/21	ASF0404
P11m9pa		M. Casalis, E. Benvenuto	Astronomical Observatory of Universidad Tecnológica Nacional	Argentina	Preliminary	10/03/21	ASF0402
P11m9he		C. Willemoëts, A. Machado, J. Mantilla	Buscadores de Asteroides de Ringuelet	Argentina/Peru	Preliminary	10/03/21	WMM0002
P11m9eP		EFS	EDCienciaespaciais	Brazil	Preliminary	10/03/21	EF50001
P11m9lc		EFS	EDCienciaespaciais	Brazil	Preliminary	10/03/21	EF50001
P11m99x		N. Ebrenz	Fénix	Brazil	Preliminary	10/03/21	NSE0003
P11m9fE		F. Costa, A. Oliveira, T. Oliveira	Poeira das Estrelas	Brazil	Preliminary	10/03/21	AGE0002
P11m9tt		F. Costa, A. Oliveira, T. Oliveira	Poeira das Estrelas	Brazil	Preliminary	10/03/21	F5M0001
P11m9jS		J. Monteiro	Steiner	Brazil	Preliminary	10/03/21	JFM0002
P11m9gW		H. Ahmad, Q. Jamil, S. Jumbo	The Astronomical Society of Brunei Darussalam	Brunei	Preliminary	10/03/21	PAB0006
P11m9mZ		H. Ahmad, Q. Jamil, S. Jumbo	The Astronomical Society of Brunei Darussalam	Brunei	Preliminary	10/03/21	PAB0005
P11m9pu		H. Ahmad, Q. Jamil, S. Jumbo	The Astronomical Society of Brunei Darussalam	Brunei	Preliminary	10/03/21	PAB0003
P11m9qB		H. Ahmad, Q. Jamil, S. Jumbo	The Astronomical Society of Brunei Darussalam	Brunei	Preliminary	10/03/21	PAB0002
P11m9jr		B. Porto, L. Rodríguez, S. Pacheco, A. María, S. Marin, M. Marin	Club de Astronomía TIERRA Y VIDA (TYV)	Colombia	Preliminary	10/03/21	TVV0003
P11m9bw		Y. Ögmen, Su.Sadisönmez	Astro Cypriots	Cyprus	Preliminary	10/03/21	ACY0036
P11m9rb		Y. Ögmen, Su.Sadisönmez	Astro Cypriots	Cyprus	Preliminary	10/03/21	ACY0035
P11m9ty		N. Hieber, N. Scheller	Haus der Astronomie	Germany	Preliminary	10/03/21	NNA9400
P11m9cb		S. Sruthy, V. Vijayalakshmi	Asterikos	India	Preliminary	10/03/21	AST0006
P11m9gm		S. Sruthy, V. Vijayalakshmi	Asterikos	India	Preliminary	10/03/21	AST0004
P11m9dl		Y. Chauhan, J. Tekani, M. Dosani, A. Chaturvedi, A. Sharma, D. Kotia	Astronomica H	India	Preliminary	10/03/21	AST0022
P11m9nj		K. Shah, R. Rajput, A. Prajapati, J. Sadhwani, V. Kanani	Astronomica I	India	Preliminary	10/03/21	ASi004
P11m9kR		A. Patel, A. Patel	Astronomica J	India	Preliminary	10/03/21	ASJ004
P11m9sy		A. Patel, A. Patel	Astronomica J	India	Preliminary	10/03/21	ASJ006
P11m9GZ		J. Thakkar, K. Malaviya	Astronomica K	India	Preliminary	10/03/21	ASK0016
P11m9H4		J. Thakkar, K. Malaviya	Astronomica K	India	Preliminary	10/03/21	ASK0011
P11m9mM		S. Bhave, K. Parashar, K. Patel	Astronomica N	India	Preliminary	10/03/21	ASN012
P11m9n7		S. Bhave, K. Parashar, K. Patel	Astronomica N	India	Preliminary	10/03/21	ASN013
P11m9gN		S. Samanta, D. Paul	Bharata	India	Preliminary	10/03/21	BHA012
P11m9He		S. Samanta, D. Paul	Bharata	India	Preliminary	10/03/21	BHA009
P11m9cr		Krithika, Vedant, Chandhni, Jagan, Arjit, Anoowin, Laleth, Sivasubramani	Chiguru Colab	India	Preliminary	10/03/21	CSTA018
P11m9sE		A. Raka, S. Loya, S. Loya, S. Somani, H. Raka	Crux View Center	India	Preliminary	10/03/21	CVC0090
P11m9h4		P. Tushar, R. Pavan, G. Kannabiran, A. Akshaya, N. Rajalakshmi, Deepa	Dr. Vikram Sara Bhai Group	India	Preliminary	10/03/21	VST4001
P11m98k		D. Das, S. Kundu, Y. Das	DSD & SK	India	Preliminary	10/03/21	DSY0015
P11m9hC		D. Das, S. Kundu, Y. Das	DSD & SK	India	Preliminary	10/03/21	DSY0017
P11m9fv		S. Manna	IISER Bpr T1	India	Preliminary	10/03/21	HEM0002
P11m9ho		S. Manna	IISER Bpr T1	India	Preliminary	10/03/21	HEM0001
P11m9ls		R. Kundu	IISER Bpr T1	India	Preliminary	10/03/21	SRB0001
P11m9nv		S. Mitra	IISER Bpr T1	India	Preliminary	10/03/21	SSS0002
P11m9t7		S. Lalsodagar, S. Nautiyal	IISER Bpr T2	India	Preliminary	10/03/21	SDL2203
P11m9cF		S. Mohapatro, S. Behera	IISER Bpr T3	India	Preliminary	10/03/21	BDB1810
P11m9sc		S. Moharana, S. Behera	IISER Bpr T3	India	Preliminary	10/03/21	ANM2001
P11m97r		S. Mukherjee	IISER Bpr T4	India	Preliminary	10/03/21	SMU0001
P11m9aT		M. Nanda, D. Mahadiak, A. Misra	IISER Bpr T6	India	Preliminary	10/03/21	DRN3102

Above: A partial list of preliminary asteroid detections in a recent report by the International Astronomical Search Collaboration (IASC), Hardin-Simmons University, for Asteroid Search Campaign in October.



Above: Md. Aminul Izzat bin Md. Asri, one of the asteroid search campaign participants, spending nearly one-two hours each day to hunt for asteroids and report their findings to IASC.



Above: All-Brunei Darussalam Asteroid Search Campaign co-assistant project manager, Md Qawiem bin Hj Md. Jamil, proudly showing off his appreciation e-certificate issued for his involvement in October International Asteroid Search Campaign by the organiser. A total of 10 initial findings from his PABD team were registered objects P11jXNu, P11jWV5, P11k5hr, P11kxXZ, P11kIVU, P11m9qB, P11m9pu, P11m9mZ, P11m9gW and P11mJ1o. All the discoverers received Participation Certificates from IASC and NASA for their scientific contribution in discovering asteroids.

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SIARAN AKHBAR

Brunei Temui 35 Asteroid Baharu

Khamis, 04 November 2021 / 28 Rabiulawal 1443

Bandar Seri Begawan – Sebanyak 35 asteroid baharu berjaya dikesan oleh kumpulan saintis komuniti (*Citizen Scientist*) daripada Negara Brunei Darussalam dalam program anjuran pertubuhan Kolaborasi Pencarian Astronomi Antarabangsa (IASC), iaitu program gabungan Pentadbiran Aeronautik dan Angkasa Negara (NASA), Amerika Syarikat.

Dari September hingga Oktober, sebanyak enam kumpulan daripada negara ini yang terdiri daripada sejumlah 30 ahli menyertai kempen pencarian asteroid IASC yang dianjurkan bersama oleh Persatuan Astronomi Nepal (NASO) dengan Persatuan Astronomi Brunei Darussalam (PABD).

Para peserta program dari Brunei dan seluruh dunia semasa kempen berpeluang menggunakan perisian astrometri yang canggih untuk menganalisis gambar dan data langit sebenar yang disediakan oleh teleskop *Panoramic Survey Telescope and Rapid Response System* (Pan-STARRS) di Hawaii.

Ia melibatkan pemerhatian objek Dekat Bumi dan Asteroid Jalur Utama (*Main Belt Asteroid*) serta melaporkan pengesanan objek-objek tersebut. Maklumat daripada penemuan awal objek ini akan dikaji lebih lanjut yang akan mengambil masa selama 5 tahun untuk menentukan orbit asteroid berkenaan oleh para ahli astronomi profesional.

Pengesanan awal asteroid tersebut oleh enam pasukan dari negara ini – The Astronomical Society of Brunei Darussalam, Hulubalang Brunei, Laksamana Brunei, Panglima Brunei, Pateh Brunei dan Semaun Brunei – telah disahkan dalam laporan-laporan yang diterbitkan oleh IASC, Universiti Hardin-Simmons, pada Khamis, 04 November 2021.

Pada tahun depan, PABD buat julung kalinya akan menganjurkan kempen Pencarian Asteroid Brunei Darussalam dengan kerjasama IASC bermula Januari 2022. Kempen ini menawarkan peluang kepada penemuan asteroid baharu oleh penduduk di Brunei. Selain itu, program ini juga bertujuan untuk memupuk kemahiran penyelidikan saintifik dengan menganalisis data angkasa yang dikongsikan dari balai-balai cerap di dunia untuk mengesan sebarang asteroid baru.

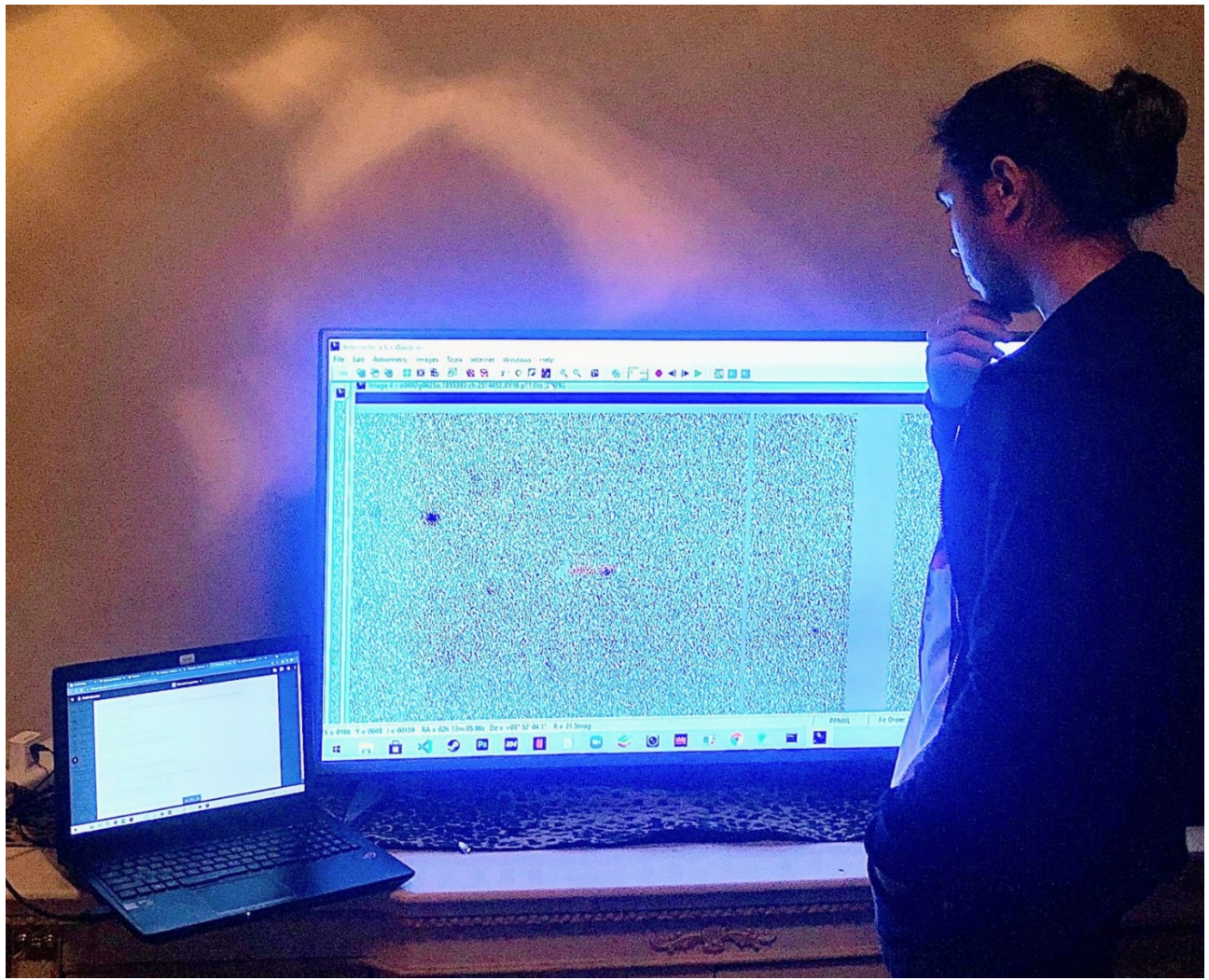
Melalui pendekatan ini juga diharapkan akan memberi inspirasi dan meningkatkan minat dalam bidang sains di kalangan masyarakat terutamanya para pelajar.

Untuk maklumat lebih lanjut dan pendaftaran boleh dicapai melalui laman sesawang www.bruneiastronomy.org/asteroidsearch

International Asteroid Search Campaign
 October 1 - 27, 2021

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P11lwj		Surender, Yochana, Anushka	Open Space Researchers	India	Preliminary	09/28/21	CSTC019
P11lzik		D. Crowson, J. Philpot	Space Rock Hounds	USA	Preliminary	09/28/21	SRH0676
P11lzuH		D. Crowson, J. Philpot	Space Rock Hounds	USA	Preliminary	09/28/21	SRH0675
P11m9Fk		M. Casalis, E. Benvenuto	Astronomical Observatory of Universidad Tecnológica Nacional	Argentina	Preliminary	10/03/21	ASF0404
P11m9pa		M. Casalis, E. Benvenuto	Astronomical Observatory of Universidad Tecnológica Nacional	Argentina	Preliminary	10/03/21	ASF0402
P11m9he		C. Willemoës, A. Machado, J. Mantilla	Buscadores de Asteroides de Ringuelet	Argentina/Peru	Preliminary	10/03/21	WMM0002
P11m9eP		EFS	EDCienciaespaciais	Brazil	Preliminary	10/03/21	EF50001
P11m9lc		EFS	EDCienciaespaciais	Brazil	Preliminary	10/03/21	EF50001
P11m99x		N. Ebrenz	Fénix	Brazil	Preliminary	10/03/21	NSE0003
P11m9fE		F. Costa, A. Oliveira, T. Oliveira	Poeira das Estrelas	Brazil	Preliminary	10/03/21	AGE0002
P11m9tt		F. Costa, A. Oliveira, T. Oliveira	Poeira das Estrelas	Brazil	Preliminary	10/03/21	F5M0001
P11m9jS		J. Monteiro	Steiner	Brazil	Preliminary	10/03/21	JFM0002
P11m9gW		H. Ahmad, Q. Jamil, S. Jumbo	The Astronomical Society of Brunei Darussalam	Brunei	Preliminary	10/03/21	PAB0006
P11m9mZ		H. Ahmad, Q. Jamil, S. Jumbo	The Astronomical Society of Brunei Darussalam	Brunei	Preliminary	10/03/21	PAB0005
P11m9pu		H. Ahmad, Q. Jamil, S. Jumbo	The Astronomical Society of Brunei Darussalam	Brunei	Preliminary	10/03/21	PAB0003
P11m9qB		H. Ahmad, Q. Jamil, S. Jumbo	The Astronomical Society of Brunei Darussalam	Brunei	Preliminary	10/03/21	PAB0002
P11m9jr		B. Porto, L. Rodríguez, S. Pacheco, A. María, S. Marin, M. Marin	Club de Astronomía TIERRA Y VIDA (TYV)	Colombia	Preliminary	10/03/21	TVV0003
P11m9bw		Y. Ögmen, Su.Sadisönmez	Astro Cypriots	Cyprus	Preliminary	10/03/21	ACY0036
P11m9rb		Y. Ögmen, Su.Sadisönmez	Astro Cypriots	Cyprus	Preliminary	10/03/21	ACY0035
P11m9ty		N. Hieber, N. Scheller	Haus der Astronomie	Germany	Preliminary	10/03/21	NNA9400
P11m9cb		S. Sruthy, V. Vijayalakshmi	Asterikos	India	Preliminary	10/03/21	AST0006
P11m9gm		S. Sruthy, V. Vijayalakshmi	Asterikos	India	Preliminary	10/03/21	AST0004
P11m9dl		Y. Chauhan, J. Tekani, M. Dosani, A. Chaturvedi, A. Sharma, D. Kotia	Astronomica H	India	Preliminary	10/03/21	AST0022
P11m9nj		K. Shah, R. Rajput, A. Prajapati, J. Sadhwani, V. Kanani	Astronomica I	India	Preliminary	10/03/21	ASi004
P11m9kR		A. Patel, A. Patel	Astronomica J	India	Preliminary	10/03/21	ASJ004
P11m9sy		A. Patel, A. Patel	Astronomica J	India	Preliminary	10/03/21	ASJ006
P11m9GZ		J. Thakkar, K. Malaviya	Astronomica K	India	Preliminary	10/03/21	ASK0016
P11m9H4		J. Thakkar, K. Malaviya	Astronomica K	India	Preliminary	10/03/21	ASK0011
P11m9mM		S. Bhave, K. Parashar, K. Patel	Astronomica N	India	Preliminary	10/03/21	ASN012
P11m9n7		S. Bhave, K. Parashar, K. Patel	Astronomica N	India	Preliminary	10/03/21	ASN013
P11m9gN		S. Samanta, D. Paul	Bharata	India	Preliminary	10/03/21	BHA012
P11m9He		S. Samanta, D. Paul	Bharata	India	Preliminary	10/03/21	BHA009
P11m9cr		Krithika, Vedant, Chandhni, Jagan, Arjit, Anoowin, Laleth, Sivasubramani	Chiguru Colab	India	Preliminary	10/03/21	CSTA018
P11m9sE		A. Raka, S. Loya, S. Loya, S. Somani, H. Raka	Crux View Center	India	Preliminary	10/03/21	CVC0090
P11m9h4		P. Tushar, R. Pavan, G. Kannabiran, A. Akshaya, N. Rajalakshmi, Deepa	Dr. Vikram Sara Bhai Group	India	Preliminary	10/03/21	VST4001
P11m98k		D. Das, S. Kundu, Y. Das	DSD & SK	India	Preliminary	10/03/21	DSY0015
P11m9hC		D. Das, S. Kundu, Y. Das	DSD & SK	India	Preliminary	10/03/21	DSY0017
P11m9fv		S. Manna	IISER Bpr T1	India	Preliminary	10/03/21	HEM0002
P11m9ho		S. Manna	IISER Bpr T1	India	Preliminary	10/03/21	HEM0001
P11m9ls		R. Kundu	IISER Bpr T1	India	Preliminary	10/03/21	SRB0001
P11m9nv		S. Mitra	IISER Bpr T1	India	Preliminary	10/03/21	SSS0002
P11m9t7		S. Lalsodagar, S. Nautiyal	IISER Bpr T2	India	Preliminary	10/03/21	SDL2203
P11m9cF		S. Mohapatro, S. Behera	IISER Bpr T3	India	Preliminary	10/03/21	BDB1810
P11m9sc		S. Moharana, S. Behera	IISER Bpr T3	India	Preliminary	10/03/21	ANM2001
P11m97r		S. Mukherjee	IISER Bpr T4	India	Preliminary	10/03/21	SMU0001
P11m9aT		M. Nanda, D. Mahadiak, A. Misra	IISER Bpr T6	India	Preliminary	10/03/21	DRN3102

Atas: Antara senarai pengesanan awal asteroid dalam laporan rasmi hasil bagi Kempen Carian Asteroid pada bulan Oktober yang diterbitkan oleh pertubuhan Kolaborasi Pencarian Astronomi Antarabangsa (IASC), Universiti Hardin-Simmons baru-baru ini.



Atas: Md. Aminul Izzat bin Md. Asri, salah seorang peserta kempen pencarian asteroid, menghabiskan masa hampir satu hingga dua jam setiap hari untuk memburu asteroid dan melaporkan penemuan mereka kepada IASC.



Atas: Timbalan Pengurus Bersama bagi Kempen Pencarian Asteroid Brunei Darussalam, Md Qawiem bin Hj Md. Jamil, menunjukkan e-Sijil Penghargaan daripada pihak penganjur di atas penyertaan beliau dalam *International Asteroid Search Campaign* bulan Oktober yang lepas. Sebanyak 10 penemuan awal daripada pasukan PABD yang disertai beliau iaitu objek dengan pendaftaran P11jXNu, P11jWV5, P11k5hr, P11kxXZ, P11kIVU, P11m9qB, P11m9pu, P11m9mZ, P11m9gW dan P11mJ1o. Semua peserta akan menerima sijil Penemuan Awal daripada IASC dan NASA atas sumbangan saintifik mereka dalam mengesan asteroid baharu.

-TAMAT-