The courses, with the detail of number, location and date, is:

166 **Busher (Irán)** - Diciembre 5-March 22, 2020
165 Ciudad de Riu overde (México) - Feb 21, 22, 2020
164 Madrid (España) - February 1-2, 2020
163 Teustepe (Nicaragua) - Jan 20, Feb 2, 2020
162 Ciudad de Panamá (Panamá) - January 21-24, 2020
161 Meru (Kenya) - January 20-22, 2020

**160 Der es-Salam (Tanzania)** - Diciembre 16-18, 2019
159 Ciudad de Riu overde (México) - Dic 13-14, 2019
158 Turda (Rumania) - Dic 10, 2019-Febrero 4, 2020

**157 Lusaka (Zambia)** - December 9-13, 2019
156 Cluj (Rumania) - Dic 4,2019 - 29 Enero, 2020

**155 El Salvador (El Salvador)** - November 25-29, 2019
154 Barcelona (España) - Nov 20, 2019-March 11, 2020
153 Santiago (Panamá) - November 14-17, 2019

**152 Osaka (Japan)** - November 9-10, 2019
151 Encarnación (Paraguay) - Nov 2-Dec 14, 2019

**150 Faro (Portugal)** - Oct 23, 2019-Enero 20, 2020
149 Xi’an, Shanxi (China) - Octubre 21-25, 2019
148 Neuquén (Argentina) - Octubre 16-19, 2019

**147 Adis Abeba (Etiopía)** - Octubre 12-13, 2019
146 Tecuigualpa (Honduras) - Septiembre 23-26, 2019
145 Coaque-Manabi (Ecuador) - September 2-6, 2019

**144 Moscú (Russia)** - August 26-29, 2019
143 Lampung (Indonesia) - August 19-22, 2019
142 Mendoza (Argentina) - August 16-22, 2019
141 Guatemala (Guatemala) - Junio 19-21, 2019

**140 Tsetserleg (Mongolia)** - June 19-21, 2019
139 Chiang Mai (Thailand) - May 21-24, 2019
NASE also organized several courses in cooperation: two workshops in Brazil, one in Italy and one in Spain in 2018 and 2019.

**IAU 100 YEARS UNDER ONE SKY AND INTERNATIONAL DAY OF THE LIGHT NASE PROJECTS**

The “Hershel Experience” was a NASE project proposed as part of the International Day of light in 2018. During half a year it was carried out by more than 50 groups in 8 different NASE countries. With a box, a prism and 4 thermometers, it is easier to observe that the Sun spectra presents different temperatures, but the installed beyond the red presents a higher temperature than the thermometer in the shadow, in all the cases. In this way, the infrared is detected.

In 2019, NASE participate of the IAU-100 Years Under One Sky celebration, proposing the “Power of the Sun” project, from autumn to spring equinoxes. This project was carried out by 16 counties and we received 482 measurements. The idea is to use the Bunsen photometer (the oil spot photometer) in order to determine the power or luminosity of the Sun. The innovation in 2019, was to prepare a setup which permits to make the experience using the face of the participant instead the oil spot. This approach to the detection, permitted the inclusion of blind people. ONCE Foundation (https://www.fundaciononce.es/) a Spanish organization were part of the proposal, and their results were spectacular if we compare with the other ones. This activity was organized in association with CSIC, CONICET, Beijing Planetarium, La Cité des Sciences, EAAE, NARIT and YOMO. The final event was a public exhibition of 10 countries in Spain.

In 2020, NASE is carrying out the “Parallel Earth” project as part of the International Day of Light celebration. The proposal will be active between equinoxes, from autumn to spring.

**PUBLISHED BOOKS**

The edition and publication of the books which support the courses is also a big goal, up to the moment of this report, the available material is:

- Beatriz Garcia, Ricardo Moreno, Messages in the light of the stars, 2018, (Ed. by Albedo, Spain, in Spanish and English)
- Rosa M. Ros, Beatriz Garcia, Alexandre Costa, The power of the Sun and how to measure it, 2019, (Ed. by Albedo, Spain, in Spanish and English)
- 14 passos para o universo 2019, Ed. Rosa M. Ros and Beatriz Garcia, Portuguese
- Beatriz Garcia, Ricardo Moreno, The distance to the stars, 2020, (Ed. by Albedo, Spain, in
NASE WEBSITE
NASE educational resources and courses materials are available at the website in 13 languages: English, Spanish, Portuguese, Chinese Mandarin, Romanian, Indonesian, French, Russian, Japanese, Mongolian, Armenian and Catalan.

On the other hand, all the PowerPoints files of the course are prepared in 13 languages, and the supporting texts, word files, are ready in 6 different languages. The translation of the material in all NASE languages, is on the way.

The basic course is the same for all the planet, but we teach in each country taking into account their Latitude and Longitude. Moreover, special sessions on Cultural Astronomy and Astronomy in the City are performed, in order to showcase the uniqueness of each site. This last activity of NASE is prepared by local astronomers in cooperation with Archeastronomy specialists, sometimes members of the IAU.

CLOSING REMAKES
The Network for Astronomy School Education is a ISO 29990:2013 certified course in Argentina. In this country the courses are more widespread and were developed along a period of time which permits analyze the impact of the activity through indicators (19 courses in the past 7 years). The International Standards permit to assure that the course can be offer with the same level of quality, and follows the same Mission and Vision.

In this sense, the available documentation for Argentina, can be very easily extended to other countries after changing a few specific details, and now is available in English, thanks to help from NASE-Honduras.

Further information is available at http://www.naseprogram.org.

Rosa M. Ros
Beatriz Garcia