

A Multidisciplinary Approach to Climate Change



Spain Center for International Education



July 12th – 23rd, 2021
<http://climate.enveco.es/>

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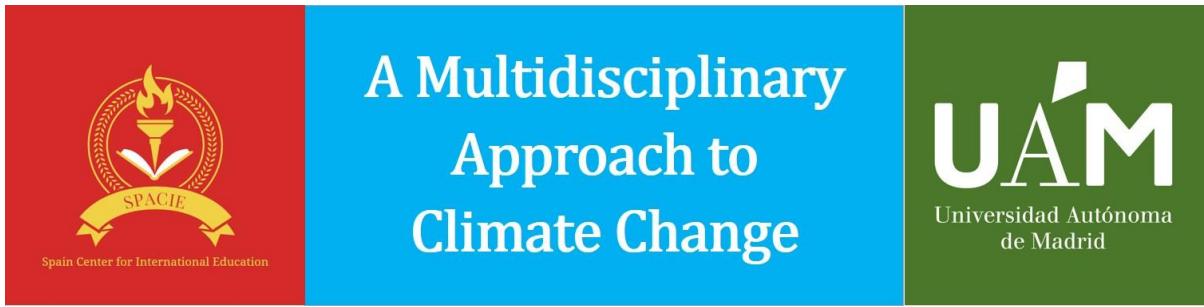
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[youtube.com/channel/UCbLWswqY5k5nfA6nXa1ifA](https://www.youtube.com/channel/UCbLWswqY5k5nfA6nXa1ifA)



PRESENTATION

SPEND TWO WEEKS OF YOUR SUMMER STUDYING AN INNOVATIVE SHORT-TERM STUDY ABROAD PROGRAM AT UAM IN MADRID!

July 12th – 23rd, 2021

Universidad Autónoma de Madrid (UAM) and Spain Center for International Education (SpaCIE) have created their joint Summer School “**A Multidisciplinary Approach to Climate Change**” (SSMACC). The SSMAACC is a unique opportunity to broaden your horizons in **one of the most beautiful and liveliest cities of the world**, while studying at a **top university**. UAM oversees the academic aspects of the program and grants the diplomas and official transcripts, and SpaCIE recruits the students and oversees the logistics of the program.

We invite you to embark on this life-changing journey to gain a new perspective on your studies, make new friends from all over the World, immerse yourself in a different culture, and discover something new about yourself! Join an exclusive **2-week study program** that offers a **high-quality multidisciplinary course**, taught **in English** by **top professors of many disciplines** (Art, Biology, Business, Chemistry, Earth Sciences, Economics, Engineering, Geography, Humanities, Law, Marketing, Physics, Political Science, Psychology, and Sociology) and by **top practitioners from the business world**.

The SSMAACC brings together students from all over the World and a few local students in a **truly international environment**. The course is **complimented by social and cultural events, as well as academic field trips**.

The SSMAACC will take place at UAM’s Faculty of Economics and Business Studies. Check the presentation video of this Faculty:



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UAM
Universidad Autónoma de Madrid



The International Relations Office organizes many events,

youtu.be/SZhDtKyx19Y

The SSMACC targets students keen to gain **academic enrichment** not only in their discipline, but in many other fields through a multidisciplinary approach to Climate Change.

The **SSMACC Program** can grant **3 ECTS credits** to students completing the two weeks of classes in Madrid. It can also grant **6 ECTS credits** to students who, additionally to the classes, take a directed study under the direction of one of the professors of the program. In the latter case, students can complete the directed study during their stay in Madrid or, more likely, remotely after they return to their country, under the timing agreed with their supervisor. Under the program of 6 ECTS credits, students also benefit from additional visits to institutions and field trips.

WANT TO DOWNLOAD PROMO MATERIALS?

[UAM-SpaCIE SSMACC poster 2021](#)

[UAM-SpaCIE SSMACC tri-fold brochure 2021](#)



APPLICATION: REQUIREMENTS, HOW TO APPLY, AND CALENDAR

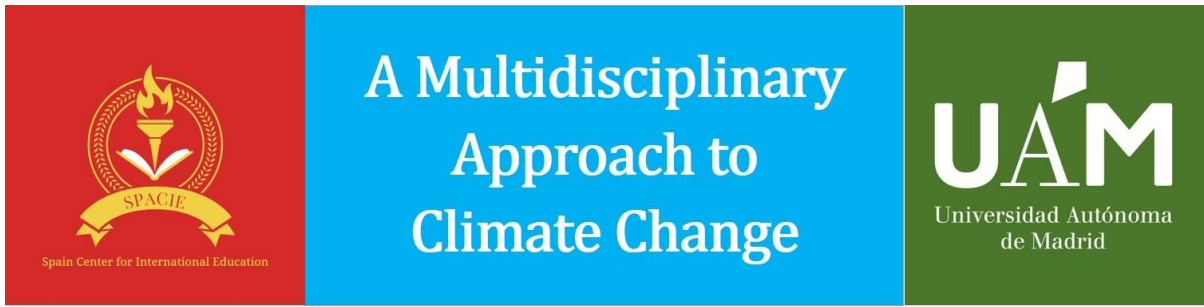
Apply for the SSMACC if you are an **undergraduate student or graduate** in any field, and your level of **English** is **at least B1, but B2 recommended**.

HOW TO APPLY?

Download the application form here: [Application Form SSMACC](#). Application forms (filled in this PDF form, not scanned) should be submitted to climate.change@uam.es (c/c spacie@enveco.es) along with:

- A scanned copy of your passport (photo ID page) or EU ID card for EU residents,
- Your curriculum vitae or résumé.

Once we receive your application materials, we will send you the information to pay the **non-refundable application fee of 60 euros**. Your application will only be processed once this fee has been received. The non-refundable application fee is considered part of the Program costs, and hence it will be **deductible from the total payment due**. If applications are no longer accepted, you will be notified, and the application fee information will not be sent. This way we avoid you paying the fee if your application can no longer be processed.



EARLY-BIRD-DISCOUNT APPLICATION DEADLINE: FEB 28

REGULAR APPLICATION DEADLINE: JUN 14

EXTRAORDINARY-PERIOD APPLICATION DEADLINE: JULY 10

You will receive notification of admission to the program within 10 days from the completion of your application (when we receive your non-refundable application fee). Admitted applicants must register by paying the full cost of the program (minus the already paid non-refundable application fee) within 30 days from admission (when we send you the e-mail confirming admission) if you applied during the early-bird-discount period; within 15 days from admission if you applied during the regular (no-discount) period; or within 2 days from admission if you applied during the extraordinary period. After 30, 15 or 2 days without registration and payment, admission will be withdrawn, and the non-refundable application fee will be lost. In this case, if you want to reapply, you will have to pay a new non-refundable application fee.

| | Early-bird-discount period | No-discount period | Extraordinary period (if places still available) |
|------------------------------------|--|-------------------------------|---|
| Application Window | December 1 – February 28 | March 1 – June 14 | June 15 – July 10 |
| Admission Window | Within 10 days from receiving the non-refundable application fee | | |
| Registration/Payment Window | Within 30 days from admission | Within 15 days from admission | Within 2 days from admission |
| Classes | July 12–23, 2021 | | |



COURSE: OVERVIEW

ATTEND AN EXCELLENT 3-ECTS OR 6-ECTS CREDITS COURSE!

You can register for:

1. 3 ECTS credits: you will follow the two-week program at UAM.
2. 6 ECTS credits: you will follow the two-week program at UAM, do additional visits to institutions and field trips during those two weeks, and take a directed study under the direction of one of the professors of the program. You can complete your directed study during your stay in Madrid (this probably would require that you select a supervisor and start working before coming to Madrid) or, more likely, remotely after you return to your country, under the timing agreed with your supervisor.

OBJECTIVES

A) Introduction

Climate change is the main global environmental problem and one of the main economic and social problems of Humanity. At least in the European Union, citizens' perception is also in line with scientific conclusions on the seriousness of the problem. According to the latest Eurobarometer survey published in 2019 by the European Commission, 93% of EU citizens believe that climate change is a serious problem and 79% that it is a very serious problem. Compared to the previous Eurobarometer, published in 2017, climate change has overtaken international terrorism as the second most serious problem facing mankind, after poverty, hunger, and lack of drinking water.



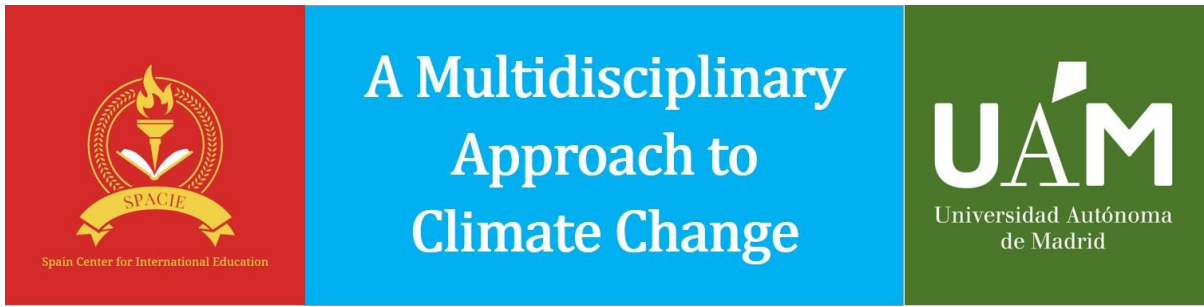
On the other hand, climate change is a multidimensional problem, which must be studied from all disciplines of knowledge. However, our curricula do not usually provide a multi- or interdisciplinary understanding of the problem and, although the population perceives it as a very serious problem, there is a notable lack of knowledge about its nature, effects, possible scenarios, policies and responses to the challenge it poses for Humanity.

B) Objectives

In view of the shortcomings of our curricula and the lack of knowledge of a large part of the population mentioned in the introduction, the main objective of this course is to provide a multidisciplinary and rigorous view of the problem of climate change. The aim is for students to have a complete university level vision, rigorously provided by experts in each subject, although adapted to the necessary introductory level given the heterogeneous profile that students will have, as it is generally the case throughout society.

In the 6-ECTS credits version of the course, students will also gain further knowledge of a field (usually the field of study of their bachelor's degree, but not necessarily) by taking a directed study under the direction of one of the professors of the program.

In addition to the main objectives described in the previous paragraphs, the course has a secondary objective: providing an enriching "study abroad" experience, with all the benefits of academic, cultural and personal enrichment that this type of experience provides, but with the advantage that by intensifying the course in only two weeks, it can encourage those who cannot live a longer experience due to its greater economic cost or do not dare to do so due to other factors.



COURSE: ACADEMIC GUIDES / SYLLABI

[SSMACC Syllabus 3 ECTS](#)

[SSMACC Syllabus 6 ECTS](#)



COURSE: CALENDAR, VENUE, AND SCHEDULE

Teaching takes place in the period **July 12th - 23rd, 2021.**

Venue: Classes will take place in the Faculty of Economics and Business Studies, Universidad Autónoma de Madrid.

Schedule:

1st week: 12 - 16 July 2021

| | Mon 12 | Tue 13 | Wed 14 | Thu 15 | Fri 16 |
|-------------|---------------------|--------|--------|--------|--------|
| 09:30-10:30 | Welcome | | | 10 | 22 |
| 10:30-11:30 | 1 | 4 | 7 | 11 | |
| 11:30-12:30 | 2 | 5 | 8 | 12 | 14 |
| 12:30-13:30 | 3 | 6 | 9 | 13 | 15 |
| 13:30-14:30 | Paella on Campus | | | | |
| 14:30-15:30 | Campus Tour | | | | |
| | Madrid walking tour | | | | |
| 15:30-16:30 | | | | | |
| 16:30-17:30 | | | | | |
| 17:30-18:30 | | | | | |



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2nd week: 19 - 23 July 2021

| | Mon 19 | Tue 20 | Wed 21 | Thu 22 | Fri 23 |
|-------------|--------|--------|--------|--------|------------------|
| 09:30-10:30 | | | | | 27 |
| 10:30-11:30 | 18 | | 19 | 25 | 28 |
| 11:30-12:30 | 16 | 20 | 23 | 26 | 29 |
| 12:30-13:30 | 17 | 21 | 24 | | 30 |
| 13:30-14:30 | | | | | Diploma Ceremony |
| 14:30-15:30 | | | | | Farewell Dinner |
| 15:30-16:30 | | | | | |
| 16:30-17:30 | | | | | |
| 17:30-18:30 | | | | | |

| CLASS | TITLE | CLASS | TITLE |
|-------|---|-------|---|
| 1 | Introduction to Climate Change | 16 | Sociology of Climate Change |
| 2 | Earth's Energy Balance | 17 | Mitigation Strategies |
| 3 | | 18 | |
| 4 | | 19 | |
| 5 | Greenhouse Gases and Energy Balance | 20 | International Response to Climate Change |
| 6 | Future Global Climate | 21 | |
| 7 | Impacts on Physical Systems | 22 | Policy Instruments against Climate Change |
| 8 | | 23 | |
| 9 | Consequences of Climate Change on Cities, Settlements and Key Infrastructure & Adaptation | 24 | What does climate change mean for business? |
| 10 | Consequences of Climate Change on Biological Systems & Adaptation | 25 | |
| 11 | Science Consensus and the Climate Change Debate | 26 | Producers and Consumers: Corporate Social Responsibility |
| 12 | | 27 | Producers and Consumers: Green Consumption |
| 13 | | 28 | Conclusions: The Transition to a Sustainable Energy Model |
| 14 | 29 | | |
| 15 | Art and Climate Change | 30 | |

COLOR KEY:

Blue: social activities

Green: classes on UAM Campus

Red: classes off-UAM Campus: 14-15 in the Prado Museum, 20-21 in Iberdrola headquarters, 25-26 in Deloitte headquarters

The schedule does not show the additional visits to institutions and field trips in the 6-ECTS credit version of the course, which will take up to two additional afternoons, leaving the remainder free.



PROGRAM COSTS

Program costs include:

- tuition fees for the course selected (3 ECTS or 6 ECTS credits), and
- costs of social and cultural events, as well as field trips included in the Program.

Please, note that program costs **DO NOT** include:

- travel between your home country and Spain,
- visa (if required),
- health/accidents insurance,
- local transportation (except when arranged by the Program for some field trips),
- food (except when provided by the Program in some events), and
- accommodation.

We will provide **information for finding accommodation** for interested students.

Students from any university receive a **12.5% discount** if they complete their application (applications are complete when we receive the non-refundable application fee) within the **early-bird discount period** (until February 28). Additionally, students from **Partner Universities*** receive a **12.5% discount**. Therefore, students from Partner Universities receive a **25% discount** if they complete their application during the early-bird discount period.

Please, see the table below for the Program costs (since the non-refundable application fee is considered part of the Program costs, an admitted applicant must register by paying the Program costs shown in this table minus the already paid non-refundable application fee of 60.00 euros):



| Program costs (in Euros) | 6 ECTS credits | 3 ECTS credits |
|---|-----------------------|-----------------------|
| Non-Partners | € 1,299.00 | € 844.35 |
| Non-Partners Early bird (until Feb 28) | € 1,136.63 | € 738.81 |
| Partners | | |
| Partners Early bird (until Feb 28) | € 974.25 | € 633.26 |

*** Definition of Partner University:** At the effect of applying the Partner discount, a Partner University is:

1. Any university that holds a valid international agreement with UAM in which UAM's Faculty of Economics and Business Studies participates, or with SpaCIE.
2. Any university that actively promotes the SSMACC among its students, even if it has not signed an agreement. This can be shown by featuring information about the SSMACC in its Web or by your International Relations Office informing us of the promotion of the SSMACC or the approval of credits transfer.



SOCIAL AND CULTURAL EVENTS, AND ACADEMIC FIELD TRIPS

We want you to get the most out of your stay in Madrid during the SSMACC. Therefore, we always plan a wide variety of social and cultural events, as well as field trips to **make your summer truly unforgettable!**

The events common to both the 3-ECTS and the 6-ECTS credit versions of the course are already planned:

- Paella on Campus,
- Madrid walking tour,
- visit to Deloitte,
- visit to the Prado Museum,
- visit to Iberdrola,
- Farewell Dinner.

The additional visits to institutions and field trips in the 6-ECTS credit version of the course will be announced later on, but here are some examples of events in previous summers:

- visit to Madrid's City Hall,
- visit to Mahou-San Miguel brewery,
- visit to Madrid's Stock Market,
- visit to Spain's Congress,
- etc.

Check some [photos and videos](#) of the variety of academic field trips, as well as cultural and social events, that our students enjoyed during previous summers.



COVID-19

As in the case of most other summer programs around the world, the SSMACC was cancelled for the summer 2020 due to the COVID-19 pandemic. Fortunately, things look much brighter for the next edition, and **our dates are confirmed for the summer 2021!**

Since September 2020, UAM has been operating with face-to-face classes on Campus, despite a second wave of COVID-19 across Europe. Thanks to the imposed security protocols (see below [“Current COVID-19 security protocols”](#)), UAM has been running smoothly, without outbreaks or contagions caused by the classes.

On the other hand, Spain already has a **vaccination plan** against COVID-19 that is **expected to start in January 2021**. It is anticipated that by summer the entire population of Spain will be vaccinated, but by May a situation will have been reached that will allow the current restrictions to be relaxed. In fact, the current State of Alert approved by the Parliament that allows for the application of current restrictions will be in effect until May 9, 2021, at the latest. (See below [“Current restrictions imposed by the State of Alarm”](#))

Therefore, we contemplate three scenarios for our program:

- 1. Worst-case scenario:** The vaccines would not work as expected, and we would have to continue in the current situation. In this case, which we consider very unlikely, the program would be taught under the **same conditions as the teaching currently being carried out at UAM** (see below [“Current COVID-19 security protocols”](#)).
- 2. Best-case scenario:** The vaccination plan would work as planned, and there would be a significant relaxation of the restrictions imposed as of May. This is what is expected now, and what we consider most likely. In



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this case, **the program would be carried out in the usual way**, although it is very likely that even in this case some precautionary measures will be maintained (see below [“Measures that we expect to be applied in the program under any circumstances”](#)).

- 3. Intermediate scenario:** There are delays in the vaccination plan. In this case, although the current restrictions would be relaxed, it is likely that **more precautionary measures of the current security protocols would be kept.**

CURRENT RESTRICTIONS IMPOSED BY THE STATE OF ALARM (until May 9, 2021, if not lifted earlier)

- Curfew from 00:00 to 06:00.
- Social or family gatherings, both in public and private spaces, open or closed, are permitted, as long as they do not exceed 6 people (cohabitants and work, institutional, and education activities are not included in this limitation).
- Hotels, restaurants, cinemas, theaters, auditoriums, circuses, multipurpose halls, establishments for public shows and recreational activities, university residences, halls of residence, sports facilities, parks, gardens, and gambling establishments must close at the latest at 00:00 hours and may not open before 06:00 hours. In the case of hotels and restaurants, they cannot admit clients after 23:00 hours.
- All commercial, retail and professional service establishments, as well as open-air markets, may not begin their activities before 06:00 hours and must close at 22:00 hours, with the exception of pharmacies, medical and veterinary establishments, gas stations and establishments that provide essential and undelayable services. Shopping centers where there are cinemas, restaurants or leisure facilities may close at 00:00 hours.
- The maximum seating capacity allowed in places of worship, indoor sports facilities, hotels, and indoor restaurants, is reduced to 50%. This percentage is 75% in theaters, cinemas, other cultural facilities



(including museums), open-air terraces at restaurants, and commercial establishments. The percentage is 40% in multi-purpose halls.

- All parks and gardens in the city of Madrid are open but continue to close until further notice from 10:00 pm to 6:00 am.

CURRENT COVID-19 SECURITY PROTOCOLS AT UAM

A) General rules

A.1) Outdoor spaces:

- Mandatory use of masks.
- In general, a distance of at least 1.5 meters should be maintained between people.
- Traffic on the sidewalks should be on the right side to avoid crossings between the two senses.
- Pedestrian tours of the campus should be reduced and limited to those cases where it is strictly necessary.

A.2) Interior spaces:

- Mandatory use of masks.
- In general, a distance of at least 1.5 meters should be maintained between people.
- Avoid unnecessary walking through buildings and interior spaces.
- The use of gloves is not recommended, except for cleaning tasks and in laboratories where the material is in common use. If the eyes, nose, or mouth are touched with the gloves, the gloves become contaminated and must be changed.



A.3) Protocol for cases of COVID-19:

- Any person who tests positive for COVID-19, in addition to following the recommendations of his or her health center and not attending the University, will immediately inform the person responsible for COVID-19 in his or her Faculty or School and UAM's Health Service (servicio.medico@uam.es) so that from this service or from the Faculty or School (in the case of students) the necessary actions are put in place to communicate to possible close contacts the actions to be carried out.
- Any person who has symptoms compatible with COVID-19 must stay home. If you feel unwell at UAM, you will leave home as soon as possible, minimizing the use of public transportation. You will contact as soon as possible your health service, and UAM's Health Service (servicio.medico@uam.es).

B) Specific rules for students

B.1) On-campus presence:

- Students must bring their own masks from home. Under no circumstances will these masks include an exhalation valve, since in this case the air is exhaled directly to the environment without any kind of retention, and this would favor, if present, the spread of the virus.
- Students will only stay on campus as long as it is necessary for their academic activities.

B.2) Classroom behavior:

- Student groups will be kept stable, so that close contacts in the event of a possible case of COVID-19 are recorded and restricted. For the same reason, students will not attend classes of teaching groups that are not theirs.



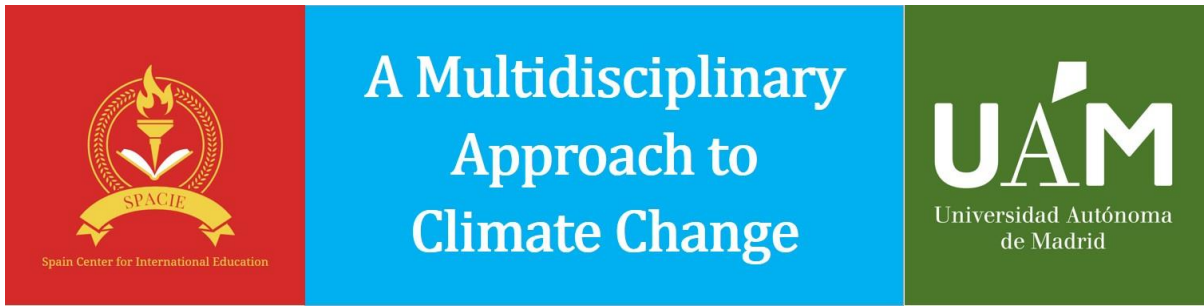
- Whenever possible, students will occupy the same position in the classroom throughout the day.
- To avoid crowding at the doors and corridors, the entrance and exit of the classrooms will be held in a staggered manner.
- Avoid sharing any kind of material with other students or with teachers.

C) Specific rules for professors

- A safety distance of at least 2 meters must be maintained between the teacher and the students while the class is being taught. When it is not possible to maintain that distance, additional protective and hygienic measures should be taken to prevent the risks of contagion.
- All classrooms will have an anti-virucidal surface cleaner, and a paper roll or similar. Each teacher is responsible for cleaning with these materials the surfaces of their workstation (table, chair, eraser, etc.), as well as the controls of the audiovisual equipment they use. This cleaning will be done by the teacher at the beginning and the end of each class.
- Whenever possible, classrooms will be kept ventilated with natural ventilation (open windows). Directional ventilation is not recommended (opening windows and doors) while classrooms are occupied, since this type of ventilation acts by potentially transporting the contaminated aerosols from whoever generates them to other people.

MEASURES THAT WE EXPECT TO BE APPLIED IN THE PROGRAM IN ALL CIRCUMSTANCES

- Mandatory use of masks.
- Frequent ventilation of the classrooms.
- Special measures of hygiene and disinfection of the facilities.
- Provision of hydroalcoholic gel for students and teachers.



CONCLUSIONS ON COVID-19

We expect that the SSMACC will be held in a similar way to the summer schools of previous years, but with the few precautions mentioned above. The most significant difference for students is that we expect the use of masks to remain mandatory.

Although it is by no means a likely scenario now, it is already planned that the SSMACC will not be cancelled in the event of an uncontrolled pandemic that makes face-to-face classes impossible. Instead, we would switch to an online format. In this case, program costs would be reduced by 20%. This will also apply to students from countries where the pandemic is not under control at the time of the SSMACC, and who cannot travel to Spain as a result.