

2020 CARBON FOOTPRINT CALCULATION

v.10.12.2021

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1 ABBREVIATIONS

COM	Commission
EB	Executive Board
EUMA	European Mountaineering Association
GA	General Assembly
IFMGA	International Federation of Mountain Guides Associations
MC	Management Committee
RtM	Respect the Mountains
IOC	International Olympic Committee
ISA	International Slackline Association
IUCN	International Union for Conservation of Nature
PAX	Persons/People
SLH	Safety Label Holder
SSC	Sustainable Summits Conference
UIMLA	Union of International Mountain Leader Associations
UNFCCC	United Nations Framework Convention on Climate Change
WG	Working Group

2 BACKGROUND

This report outlines the results of ongoing monitoring and reporting of the UIAA's carbon footprint, which is in response to our signed commitment in early 2019 and participation under the United Nations Framework Convention on Climate Change (UNFCCC) [Sports for Climate Action](#). As a participant in this initiative, the UIAA is required and expected to adhere to 5 principles (see [here](#)), these being:

Principle 1: Undertake systematic efforts to promote greater environmental responsibility;

Principle 2: Reduce overall climate impact;

Principle 3: Educate for climate action;

Principle 4: Promote sustainable and responsible consumption;

Principle 5: Advocate for climate action through communication.

Under Principle 2: Reduce overall climate impact, the UIAA is expected to "measure and understand" its carbon footprint in order to set targets to reduce its emission and overall climate impact. Knowing how to define these targets requires first measuring and understanding how our travel and activities contribute to greenhouse gas (equivalent carbon dioxide, CO₂) emissions, requiring a 'baseline' to compare and track progress over time. The first task is to establish and report on an indicative baseline and continue to gather data to monitor how our emissions trend over time. In parallel to this, the UIAA can also use this data to start seeing where and which activities generate the highest emissions and then suggest practical means to reducing them.

Many carbon emission reduction measures, such as travel policies to reduce CO₂ emissions, promote the principle of "avoid, reduce, compensate" in that order. The UIAA, through the support and participation of its Mountain Protection Commission and the newly created UIAA Climate Change Task Force, will seek to draft such as policy as a next step in its fulfilment of the 5 principles set out by the UNFCCC.

3 SCOPE

This is the third carbon footprint calculation of the UIAA, the first two being issued for the years 2018 and 2019 respectively. The information and data relating to energy use and infrastructure at the UIAA Office, was provided by the Swiss Alpine Club (SAC) with whom offices are shared. Travel information was gathered for all core-related meetings and events relating to the operations of the UIAA at the organization's level (e.g. travel for UIAA Office staff and UIAA delegates at Executive Board, Committee and Commission Meetings, as well as UIAA-run events such as competition ice climbing), by recoding attendances. The largest international airport in the country of origin was considered as point of departure for all delegates, while the

nearest and most relevant airport for the event destination was considered as point of arrival for all meetings and events. Direct travel was assumed, unless further information was readily available. Local travel, via car and/or public transportation, was not considered for the 2020 calculation, with the intention to do so in the future. All delegates and staff will be asked to submit their travel information during meetings using a survey issued by the UIAA Office.

Not included in the 2020 carbon footprint calculation are indirect emission associated with UIAA events and meetings, such as origin and travel of goods and resources, electricity, heating, infrastructure, spectatorship, etc. associated with the venues of those events and meetings. The intention to start gathering this information from event organizers from 2022 forward, following a review of the scope of the UIAA's future emissions reporting.

4 LIMITATIONS

The accuracy and completeness of the 2020 carbon calculation is somewhat limited.

First of all, direct travel by plane was assumed for most delegates and staff, unless accurate information was available. A survey collecting detailed and accurate information regarding attendance and travel to meetings was only partially distributed. The reason for the partial omission was to avoid numerous emails being sent to delegates with multiple requests, not the least due to COVID-19 and priorities being elsewhere for many UIAA member associations and its delegates. Nevertheless, this remains as relevant information to include for future calculations and thereby improve the accuracy of our reporting. Hence, the format and communications associated with data collection methods will be revised for future reporting.

Second, no local travel via car and/or public transport was considered for the 2020 calculation. The focus remained on travel by plane, as it is proven to spike CO₂ emissions significantly more than any other transportation type and to also give us a comparison to the 2018 and 2019 calculations, which used a similar method and assumption.

Furthermore, and mainly due to limited financial resources, this calculation was done internally by the UIAA Office. In the future, the aim is to outsource the carbon footprint calculation and to have it approved by an accredited organization.

The tool used to determine this year's footprint only calculates CO₂ equivalent emissions.

Lastly, the 2020 carbon footprint calculation only partially displays the many ways additional CO₂ emission has been avoided, limited, or already minimized by the UIAA, its delegates and staff up until this point. Particularly, details about meeting frequency and attendance, due to the virtual setting for most meetings during COVID-19 times, are highlighted in this report.

5 METHODOLOGY

In a first step, attendance sheets of all UIAA meetings and events in 2020 were gathered. Some of these registration lists displayed the flight numbers of delegates, which helped to accurately calculate the distances travelled from location of origin to destination.

In all other cases, the largest “home” airport of each delegate, staff member or else was determined, considering their country of origin.

The closest and most relevant airport to the meeting or event locations was determined.

CO₂ emission calculations of all relevant travel were done for return trips.

<https://www.carbonfootprint.com/calculator.aspx> was used for all calculations. Radiative forcing was not included.

Lastly, information such as energy use (derived from energy bills) by the UIAA Office was requested from the Swiss Alpine Club (SAC) and calculations were done via the same calculator as highlighted above.

6 RESULTS & DISCUSSION

The sum of UIAA CO₂ emissions generated in 2020, totaled to 145.62 tonnes, compared to 353.33 tonnes in 2019, and 365.56 tonnes in 2018. The two main sources of CO₂ included in this calculation are the office infrastructure and airplane travel of UIAA delegates to scheduled events. A detailed breakdown of these calculations is provided below.

The noticeable decrease in emissions from 2019 to 2020 is mainly due to limited in-person meetings as a result of the COVID-19 pandemic. From March onward, practically no meetings were held in person that required travel by plane. Despite that, meeting frequency and attendance increased significantly for most UIAA delegates as online discussions were scheduled and held virtually on a more regular basis.

6.1 Office Infrastructure

Office infrastructure generated 1.34 tonnes of CO₂ emissions in 2020, as Table 1 shows. This typically includes emissions generated through electricity, heating, printing and acquiring new IT hardware. However, the information on electricity and heating has not been received in time for publishing this report, suggesting the overall value should actually be higher and closer to 2.99 tonnes of CO₂ generated in 2019. Noting that much of 2020 was spent working from home, 2.99 tonnes of CO₂ were unlikely reached. Heating of the office space and water is generated through district heating, and thus emissions generated are minimal. Airconditioning is not used. A

significant amount of office work has shifted to online only, where printing is avoided where possible.

Office Infrastructure	35,7 m ²	Tonnes of CO2	1.1.-30.9.2019 = 35,7 m ² ; and 1.10.-31.12.2019 = 27,73 m ²	Tonnes of CO2	27,73 m ²	Tonnes of CO2
Nbr of staff members	6 (working as 4.2 pax incl. 1 pax remote)	-	6 (working as 4.2 pax incl. 1 pax remote)	-	6 (working as 4.2 pax incl. 1 pax remote)	-
Electricity	3'023 in kWh at a factor of 0.0140 kgCO2e/kWh	0.04	3,135.8 kWh at a factor of 0.014 kgCO2e/kWh	0.04		
Natural gas	0 kWh	0	0 kWh	0	0 kWh	0
Heating oil	0 Litres	0	0 Litres	0	0 Litres	0
Coal	0 Tonnes	0	0 Tonnes	0	0 Tonnes	0
LPG	0 Litres	0	0 Litres	0	0 Litres	0
Propane	0 Litres	0	0 Litres	0	0 Litres	0
Wood	0 Tonnes	0	0 Tonnes	0	0 Tonnes	0
Other heating systems:	141,200 kg or L District Heating (Ground Source Heat Pump)	0	23,120.13 kWh at a factor of 59 (kg CO2-eq per MWh district heating) (Ground Source Heat Pump)	1.36		
Printing	263 pages b/w – CHF 0.10 pp 8 colour – CHF 0.20 pp (Adding up to a total cost of EUR 26)	0.01	23 pages b/w - CHF 0.10 pp 174 colour - CHF 0.20 pp (adding up to total cost of EUR 29)	0.01	5 pages b/w - CHF 0.10 pp 30 colour pages - CHF 0.20 pp (adding up to total cost of EUR 6.00)	0
Cost computers and IT equipment	CHF 4,250.00	2.12	CHF 1,737.00	1.58	CHF 1,500.80	1.34
Total Office Infrastructure Footprint		2.17		2.99		1.34

Table 1 - CO₂ Emission generated through the UIAA Office Infrastructure

6.2 Travel by Airplane

An individual or groups of people relevant to the organization are highlighted in the first row of Table 2, while the first column lists the potential events, conferences, or meetings the individual or group of people attended. The numbers indicate the CO₂ emissions in tonnes, which the individuals/groups of people caused traveling to the given events/conferences/meetings. Table 2 is also available as an annex (Annex I).

Travel by Air Plane	Office staff	EB members	MC members	GA delegates/ MF rep	Honorary Members	Unit Members	UIAA Court	COM full members	COM correspondin g member	Officials	Athletes	Production Crew	Accredited Lab	Manufacture r	Goods	Guests (incl Observers)	CO2 tonnes
to GA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to MC	0.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.36
to EB	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to COMWVG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to Sports Events	1.63	0.29	0	0	0	0	0	0	-	10.42	122.56	7.1	0	0	0	1.92	143.92
to Trade Shows	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to RTM Events	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to Office	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to Strategy Meeting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to IUCN Meeting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to SSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to Film Festivals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to Sponsorship Meetings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to SportAccord	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to IF Forum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to Rock Climbing Festivals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to CCC Taskforce Meetings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to other meetings (member anniversaries; conflict.; issues; UNFCCC; Sport Positive Summit)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1.99	0.29	0	0	0	0	0	0	0	10.42	122.56	7.1	0	0	0	1.92	144.28

Table 2 - CO₂ Emissions generated through UIAA delegates' Travel by Plane.

The number “0” indicates that none of the group’s members attended a respective event or participated online thus not generating any emissions associated with travel.

The symbol “-” indicates that (a) member(s) of the group attended the respective event in person, but did not fly there (thus using a car, bus or rail) or the emissions

generated are already accounted for elsewhere. This is the case, for example, if an EB member attends a Sports Event and uses the opportunity and presence to attend a Sponsorship Meeting in the same country.

Compared to 2019, the 2020 calculation and report counts three new and additional categories of individuals/groups, namely the Production Crew, Accredited Laboratories and Manufacturers. These have been added, because their attendance significantly increases the carbon emissions created at a given event or meeting. An additional meeting/event has been added for 2020, namely Covid-Crisis-Consultation (CCC) Taskforce Meetings, which were attended by EB members, MC members, some Commission members and UIAA Office staff.

Of all the listed meetings, the following did not take place or were cancelled in 2020:

- RtM events
- Sustainable Summits Conference
- Strategy Meetings
- IUCN Conference
- Trade Shows
- Member Anniversaries
- Rock Climbing Award
- SportAccord

The following events were not attended by any UIAA delegate:

- Film festivals

And the following events took place online:

- General Assembly
- Management Committee Meetings (all)
- Commission Meetings (all)
- CCC Taskforce Meetings (all)
- Office Meetings (all)
- IF Forum
- UNFCCC signatories and working group meetings (all)
- Member Issues Meetings (all)
- Sport Positive Summit

The total CO₂ emissions generated through airplane travel in 2020 are 144.28 tonnes.

In the following section, explanations regarding each group of people and the results are highlighted.

6.2.1 Office Staff Travel

Travel by Air Plane	Office staff	
to GA		0
to MC		0.36
to EB	-	
to COM/WG		0
to Sports Events		1.63
to Trade Shows		0
to RTM Events		0
to Office	-	
to Strategy Meeting		0
to IUCN Meeting		0
to SSC		0
to Film Festivals		0
to Sponsorship Meetings		0
to SportAccord		0
to IF Forum		0
to Rock Climbing Festivals		0
to CCC Taskforce Meetings		0
to other meetings (member anniversaries; conflict,; issues; UNFCCC; Sport Positive Summit)		0
TOTAL		1.99

Table 3 - CO₂ Emissions generated by Airplane Travel of Office Staff

In 2020, as was the case in 2019, “Office staff” counts 6 people, working at 4.2 full time equivalent, with 1 of them working remotely on a permanent basis. In 2020, all Office staff shifted to an online mode from March onward, due to COVID-19.

Office staff only traveled to three events, namely to prepare for the MC Spring meeting in Skopje, which was subsequently cancelled, to Sports Events and to the one mixed EB meeting in Bern, Switzerland.

The following events were attended online by Office staff:

- General Assembly

- Management Committee Meetings (all)
- EB Meetings
- Commission Meetings (all)
- Office Meetings
- IF Forum
- CCC Taskforce Meetings
- Other Meetings (Member Issues Meetings; UNFCCC signatories and WG meetings, Sport Positive Summit)

Events in 2020 that were not attended at all by Office staff were Trade Shows, and Film Festivals.

All in all, the Office staff travel by airplane accounts for 1.99 tonnes in 2020, compared to 6.93 tonnes in 2019 and 19.59 tonnes of CO₂ emissions in 2018. The significant decrease is due to the online nature of most meetings in 2020.

6.2.2 EB Members' Travel

Travel by Air Plane	EB members
to GA	0
to MC	0
to EB	-
to COM/WG	0
to Sports Events	0.29
to Trade Shows	0
to RTM Events	0
to Office	-
to Strategy Meeting	0
to IUCN Meeting	0
to SSC	0
to Film Festivals	0
to Sponsorship Meetings	0
to SportAccord	0
to IF Forum	0
to Rock Climbing Festivals	0
to CCC Taskforce Meetings	0

to other meetings (member anniversaries; conflict,; issues; UNFCCC; Sport Positive Summit)	0
TOTAL	0.29

Table 4 - CO₂ Emissions generated by Airplane Travel of EB Members

“EB members” refers to the UIAA Executive Board which in 2020 from January until October counted 7 people, with 3 members leaving and 3 new members joining from October onwards.

Only two EB members traveled to one event, namely the one mixed EB meeting in Bern, Switzerland.

The following events were attended online by EB members:

- General Assembly
- Management Committee Meetings (all)
- EB Meetings (see below)
- Commission Meetings
- Office Meetings
- CCC Taskforce Meetings
- Other Meetings (Member Issues Meetings; UNFCCC signatories and WG meetings, Sport Positive Summit)

Events in 2020 that were not attended at all by EB members were Trade Shows, Film Festivals, the IF Forum

The EB had 10 meetings in 2020, compared to 8 meetings in 2019, taking place in the following locations:

- 9 online meetings
- 1 mixed meeting in Bern, Switzerland (only 2 EB members travelled and attended in-person, with no travel by airplane needed)

All in all, the EB member travel by airplane accounts for 0.29 tonnes of CO₂ emissions in 2020, compared to 15.34 tonnes in 2019 and 26.45 tonnes in 2018. While the meeting frequency increased in 2020, the practice of online and hybrid format meetings allowed for maximum participation while keeping the carbon footprint significantly lower than in previous years. Evidently, the main reason for holding online meetings in 2020 was due to COVID-19.

As the number of EB members didn't change in 2020, the decrease cannot be accounted for by the size of the EB.

6.2.3 MC Members' Travel

Travel by Air Plane	MC members
to GA	0
to MC	0
to EB	0
to COM/WG	0
to Sports Events	0
to Trade Shows	0
to RTM Events	0
to Office	0
to Strategy Meeting	0
to IUCN Meeting	0
to SSC	0
to Film Festivals	0
to Sponsorship Meetings	0
to SportAccord	0
to IF Forum	0
to Rock Climbing Festivals	0
to CCC Taskforce Meetings	0
to other meetings (member anniversaries; conflict,; issues; UNFCCC; Sport Positive Summit)	0
TOTAL	0

Table 5 - CO₂ Emissions generated by Airplane Travel of MC Members

“MC members” refers to the UIAA Management Committee which in 2020 counted 20 people, 7 of which are simultaneously EB members. In 2019, the MC was composed of 18 people with 5 of them simultaneously represented the EB.

The MC didn't travel to any meetings in 2020. In 2020, it held 4 online meetings, compared to 2 in-person meetings in 2019.

Some MC delegates further attended virtual CCC Taskforce Meetings and met with Commission Presidents to debrief after or before the MC Meeting.

All in all, the MC member travel by airplane accounts for 0.00 tonnes of CO₂ emissions in 2020, as none of their discussions took place face-to-face but rather online.

6.2.4 GA Delegates' Travel

Travel by Air Plane	GA delegates/ MF rep
to GA	0
to MC	0
to EB	0
to COM/WG	0
to Sports Events	0
to Trade Shows	0
to RTM Events	0
to Office	0
to Strategy Meeting	0
to IUCN Meeting	0
to SSC	0
to Film Festivals	0
to Sponsorship Meetings	0
to SportAccord	0
to IF Forum	0
to Rock Climbing Festivals	0
to CCC Taskforce Meetings	0
to other meetings (member anniversaries; conflict,; issues; UNFCCC; Sport Positive Summit)	0
TOTAL	0

Table 6 - CO₂ Emissions generated by Airplane Travel of GA Delegates

“GA delegates” refers to all official delegates of the UIAA General Assembly and representatives of UIAA member associations, who aren’t simultaneously part of the EB, MC or COM delegates.

The GA delegates mainly attended 1 meeting in 2020, notably the General Assembly. Eight (8) separate e-meetings between GA delegates, members of the EB and the Office were held prior to the GA to discuss membership issues.

In 2020, the General Assembly was held online. It was attended by 85 GA delegates (including Observer members), in addition to 7 members of the EB, 6 members of the MC, 9 representatives of UIAA Commissions, 1 Unit member representative, 2 Honorary members, 1 member of the UIAA Court, 2 Guests and 2 observers. In total, this accounts for 115 people attending the GA, not counting Office staff. Compared to 2019, where 104 people attended, this is a welcome increase in attendance. The livestream was available on YouTube to watch, and therefore even more people got the chance to attend.

Travel of GA delegates didn’t account for any CO₂ emissions in 2020, due to the online nature of the General Assembly and meetings with the EB. As with other groups and bodies of the UIAA, attendance of the General Assembly was higher due to the virtual format, inviting member federations who previously never attended the GA in person to now join.

6.2.5 Honorary members’ travel

Travel by Air Plane	Honorary Members
to GA	0
to MC	0
to EB	0
to COM/WG	0
to Sports Events	0
to Trade Shows	0
to RTM Events	0
to Office	0
to Strategy Meeting	0
to IUCN Meeting	0
to SSC	0
to Film Festivals	0
to Sponsorship Meetings	0
to SportAccord	0
to IF Forum	0

to Rock Climbing Festivals to CCC Taskforce Meetings	0
to other meetings (member anniversaries; conflict,; issues; UNFCCC; Sport Positive Summit)	0
TOTAL	0

Table 7 - CO₂ Emissions generated by Airplane Travel of Honorary Members

“Honorary members” refers to a reserved group of official UIAA delegates. They are invited to all MC meetings and the General Assembly. In 2020, 2 Honorary Members attended these meetings, compared to only 1 in 2019 and 2018.

Their travel by airplane in 2020 accounted for 0.00 tonnes compared to 0.75 tonnes of CO₂ emissions in 2019, and 2.08 tonnes in 2018.

The main reason for the decrease in previous years is the one Honorary Member’s origin and country of residence, which is Europe. Thus, traveling to Malta and Cyprus in 2019, caused less emissions than traveling to Nepal and Mongolia in 2018. In 2020, they had no travel impact as meetings were held virtually.

6.2.6 Unit Members’ Travel

Travel by Air Plane	Unit Members
to GA	0
to MC	0
to EB	0
to COM/WG	0
to Sports Events	0
to Trade Shows	0
to RTM Events	0
to Office	0
to Strategy Meeting	0
to IUCN Meeting	0
to SSC	0
to Film Festivals	0

to Sponsorship Meetings	0
to SportAccord	0
to IF Forum	0
to Rock Climbing Festivals	0
to CCC Taskforce Meetings	0
to other meetings (member anniversaries; conflict,; issues; UNFCCC; Sport Positive Summit)	0
TOTAL	0

Table 8 - CO₂ Emissions generated by Airplane Travel of Unit Members

“Unit members” refers to representatives of the current UIAA Unit Members. Representatives of UIAA Unit Members are invited to attend the MC meeting and the GA. In 2020, as in previous years, that accounted for 1 single delegate representing the International Skyrunning Federation.

The delegate’s travel by airplane in 2019 accounted for 0.53 tonnes of CO₂ emissions, while in 2020 no carbon footprint was left behind. This again can be explained due to the online nature of all meetings.

6.2.7 UIAA Court Travel

Travel by Air Plane	UIAA Court
to GA	0
to MC	0
to EB	0
to COM/WG	0
to Sports Events	0
to Trade Shows	0
to RTM Events	0
to Office	0
to Strategy Meeting	0
to IUCN Meeting	0
to SSC	0

to Film Festivals	0
to Sponsorship Meetings	0
to SportAccord	0
to IF Forum	0
to Rock Climbing Festivals	0
to CCC Taskforce Meetings	0
to other meetings (member anniversaries; conflict,; issues; UNFCCC; Sport Positive Summit)	0
TOTAL	0

Table 9 - CO₂ Emissions generated by Airplane Travel of UIAA Court Members

The “UIAA court” attends the GA and MC meetings and counts 4 people in 2020, only 1 of which attended these events.

The representative’s travel by airplane in 2020 accounts for 0.00 tonnes of CO₂, compared to 2019 figures of 0.43 tonnes in 2019, and 3.49 tonnes of CO₂ emissions in 2018, when all 4 representatives attended the GA in Ulaanbaatar, Mongolia.

6.2.8 COM Full Members’ Travel

“COM full members” refers to all full members of UIAA Commissions and Working Groups. Full members are expected to attend commission meetings in person. In 2020, the UIAA counts 7 commissions, which are:

- Antidoping Commission (3 full members, 0 corresponding member)
- Ice Climbing Commission (8 full members, 8 corresponding members, 3 athletes)
- Medical Commission (23 full members, 22 corresponding members)
- Mountain Protection Commission (7 full members, 7 corresponding members)
- Mountaineering Commission (35 full members, 21 corresponding members)*
- Safety Commission (7 full members, 10 corresponding members)
- Youth Commission (16 full members, 4 corresponding members)

*Access, Expeditions, Legal Experts and Training Standards are working groups of the Mountaineering Commission and partially have overlaps.

Travel by Air Plane	COM full members
to GA	0
to MC	0
to EB	0
to COM/WG	0
to Sports Events	-
to Trade Shows	0
to RTM Events	0
to Office	0
to Strategy Meeting	0
to IUCN Meeting	0
to SSC	0
to Film Festivals	0
to Sponsorship Meetings	0
to SportAccord	0
to IF Forum	0
to Rock Climbing Festivals	0
to CCC Taskforce Meetings	0
to other meetings (member anniversaries; conflict,; issues; UNFCCC; Sport Positive Summit)	0
TOTAL	0

Table 10 - CO₂ Emissions generated by Airplane Travel of Commission Full Members

Generally, each commission meets once a year (except for MountCom who typically met twice a year in person) in a separate meeting, while commission presidents additionally attend the MC meeting and GA. Working groups do not hold separate meetings. 2020 was quite different in terms of meeting frequency and attendance, with more frequent but shorter virtual meetings held throughout the year.

In 2020, the UIAA commissions together count 99 full members, compared to 107 in 2019. The following shows meeting frequency of each commission:

- Anti-Doping, 0 meetings, as they meet during Sports Events
- Ice Climbing, 1 online meeting

- Medical, 0 meetings
- Mountain Protection, 2 online meetings
- Mountaineering, 2 online meetings
 - o Access WG, 1 separate online meeting
- Safety, 7 online internal meetings and 1 online plenary meeting
- Youth, 0 meetings

There was no airplane travel in 2020 of full members, as their meetings were either cancelled or held online. In 2019 their airplane travel accounted for 37.9 tonnes of CO₂.

Table 11 below, shows how much CO₂ in tonnes was created through airplane travel of full members of respective UIAA Commissions.

Travel by Airplane	Anti-Doping FM	Ice Climbing FM	Medical FM	Mountain Protection FM	Mountaineering FM	Safety FM	Youth FM	CO ₂ , tonnes
to GA	0	0	0	0	0	0	0	0
to MC	0	0	0	0	0	0	0	0
to COM	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0

Table 11 - CO₂ Emissions generated by Full Members of Respective Commissions

6.2.9 COM Corresponding Members' Travel

“COM corresponding members” refers to all corresponding members of UIAA Commissions and Working Groups. Corresponding members are invited to, but do not have to attend commission meetings in person. In 2020, the UIAA counts 7 commissions, which are:

- Antidoping Commission (3 full members, 0 corresponding member)
- Ice Climbing Commission (8 full members, 8 corresponding members, 3 athletes)
- Medical Commission (23 full members, 22 corresponding members)
- Mountain Protection Commission (7 full members, 7 corresponding members)
- Mountaineering Commission (35 full members, 21 corresponding members)*
- Safety Commission (7 full members, 10 corresponding members)
- Youth Commission (16 full members, 4 corresponding members)

*Access, Expeditions, Legal Experts and Training Standards are working groups of the Mountaineering Commission and partially have overlaps.

Travel by Air Plane	COM corresponding member
to GA	0
to MC	0
to EB	0

to COM/WG	0
to Sports Events	-
to Trade Shows	0
to RTM Events	0
to Office	0
to Strategy Meeting	0
to IUCN Meeting	0
to SSC	0
to Film Festivals	0
to Sponsorship Meetings	0
to SportAccord	0
to IF Forum	0
to Rock Climbing Festivals	0
to CCC Taskforce Meetings	0
to other meetings (member anniversaries; conflict,; issues; UNFCCC; Sport Positive Summit)	0
TOTAL	0

Table 12 - CO₂ Emissions generated by Airplane Travel of Commission Corresponding Members

In 2020 the UIAA commissions and working groups counted 72 corresponding members, compared to 75 in 2019. Due to no airplane travel, no CO₂ emissions were generated in 2020. In 2019, their travel by airplane accounted for 5.74 tonnes of CO₂.

Table 13 below, shows how much CO₂ in tonnes was created through airplane travel of corresponding members of respective UIAA Commissions.

Travel by Airplane	Anti-Doping CM	Ice Climbing CM	Medical CM	Mountain Protection CM	Mountaineering CM	Safety CM	Youth CM	CO ₂ , tonnes
to GA	0	0	0	0	0	0	0	0
to MC	0	0	0	0	0	0	0	0
to COM	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0

Table 13 - CO₂ Emissions generated by Corresponding Members of Respective Commissions

In general, Corresponding members were much more likely to attend Commission meetings due to their online format. As most representatives would have to pay for their travel themselves, they usually do not attend these meetings.

6.2.10 Officials' Travel

Travel by Air Plane	Officials
to GA	0
to MC	0
to EB	0
to COM/WG	0
to Sports Events	10.42
to Trade Shows	0
to RTM Events	0
to Office	0
to Strategy Meeting	0
to IUCN Meeting	0
to SSC	0
to Film Festivals	0
to Sponsorship Meetings	0
to SportAccord	0
to IF Forum	0
to Rock Climbing Festivals	0
to CCC Taskforce Meetings	0

to other meetings (member anniversaries; conflict,; issues; UNFCCC; Sport Positive Summit)	0
TOTAL	10.42

Table 14 - CO₂ Emissions generated by Airplane Travel of UIAA Officials

“Officials” of the UIAA refer to stakeholders at the UIAA Sports Events working in an official capacity for the UIAA. These include: international results manager, international route setters and international judges. Excluded are: national/local judges and route setters, guests, the production crew and the livestream commentator.

Among the UIAA Sports Events are: UIAA Ice Climbing World Cups, the UIAA Ice Climbing World Championships, the UIAA Ice Climbing Youth World Championships and the UIAA Ice Climbing Combined World Championships.

In 2020, travel of Officials accounts for 10.42 tonnes of CO₂, compared to 18.68 in 2019. The main reason for this significant increase, is the total number of events which varies year after year. In 2019, the season extended to 8 events, 3 of which took place in central Europe, 2 in Asia, 1 in North America, 1 in Scandinavia and 1 in Russia. Whereas the 2020 season counted only 4 events, 2 in Asia, 1 in central Europe and 1 in Russia.

6.2.11 Athletes' Travel

Travel by Air Plane	Athletes
to GA	0
to MC	0
to EB	0
to COM/WG	0
to Sports Events	122.56
to Trade Shows	0
to RTM Events	0
to Office	0
to Strategy Meeting	0
to IUCN Meeting	0
to SSC	0
to Film Festivals	0

to Sponsorship Meetings	0
to SportAccord	0
to IF Forum	0
to Rock Climbing Festivals	0
to CCC Taskforce Meetings	0
to other meetings (member anniversaries; conflict,; issues; UNFCCC; Sport Positive Summit)	0
TOTAL	122.56

Table 15 - CO₂ Emissions generated by Airplane Travel of Athletes

“Athletes” of the UIAA are all those competing in international UIAA Sports Events, notably the UIAA Ice Climbing World Cups, the UIAA Ice Climbing World Championships, the UIAA Ice Climbing Youth World Championships and the UIAA Ice Climbing Combined World Championships.

In 2020, the season comprised 3 World Cups and 1 World Youth Championships, a total of 4 events, compared to 8 total events held in 2019. These were held in following locations:

- Chang chun, China
- Cheongsong, South Korea
- Saas-Fee, Switzerland
- Kirov, Russia

For athletes participating in consecutive legs of the World Tour, continuous travel was assumed, as athletes tend to stay on the continent to train locally before the next competition.

The total number of athletes participating in at least one of the above events is 197, compared to 249 in 2019.

Apart from competing in UIAA supported events, 2 athletes attended the Ice Climbing Commission meeting which took place online.

The athletes’ travel by airplane accounts for 122.56 tonnes of CO₂ emissions, compared to 180.68 tonnes in 2019 and 153.95 tonnes of CO₂ emissions in 2018. Arguably, the travel of athletes is an indirect environmental impact caused by UIAA supported (or hosted) events. For transparency reasons, it has been included in this carbon footprint calculation.

6.2.12 Production Crew

Travel by Air	Production
Plane	Crew
to GA	0
to MC	0
to EB	0
to COM/WG	0
to Sports	
Events	7.1
to Trade Shows	0
to RTM Events	0
to Office	0
to Strategy	
Meeting	0
to IUCN	
Meeting	0
to SSC	0
to Film Festivals	0
to Sponsorship	
Meetings	0
to SportAccord	0
to IF Forum	0
to Rock	
Climbing	
Festivals	0
to CCC	
Taskforce	
Meetings	
to other	
meetings	
(member	
anniversaries;	
conflict,; issues;	
UNFCCC; Sport	
Positive	
Summit)	0
TOTAL	7.1

Table 16 - CO₂ Emissions generated by Airplane Travel of the Production Crew

This category of people has been newly added to the 2020 calculation. The “Production Crew” refers to those individuals travelling to international UIAA Ice Climbing Events to assure a livestream is available.

In 2020 these were 5 people, including the commentator. All five are UK citizens.

They travelled to all 3 World Cups, but not the Youth World Championships.

Their airplane travel accounts for 7.1 tonnes of CO₂ emissions in 2020.

6.2.13 Accredited Laboratory Representatives

Travel by Air Plane	Accredited Lab
to GA	0
to MC	0
to EB	0
to COM/WG	0
to Sports Events	0
to Trade Shows	0
to RTM Events	0
to Office	0
to Strategy Meeting	0
to IUCN Meeting	0
to SSC	0
to Film Festivals	0
to Sponsorship Meetings	0
to SportAccord	0
to IF Forum	0
to Rock Climbing Festivals	0
to CCC Taskforce Meetings	0
to other meetings (member anniversaries; conflict,; issues; UNFCCC; Sport Positive Summit)	0
TOTAL	0

Table 17 - CO₂ Emissions generated by Airplane Travel of Accredited Lab Reps

This category of people has been newly added to the 2020 calculation. The “Accredited Laboratory Representatives” refers to those individuals representing accredited testing laboratories for UIAA Safety Label Standards, who attend the plenary assembly of the UIAA Safety Commission.

11 representatives attended the online plenary assembly in November 2020.

Their airplane travel accounts for 0 tonnes of CO₂ emissions in 2020.

6.2.14 Manufacturer Representatives

Travel by Air Plane	Manufacturer
to GA	0
to MC	0
to EB	0
to COM/WG	0
to Sports Events	0
to Trade Shows	0
to RTM Events	0
to Office	0
to Strategy Meeting	0
to IUCN Meeting	0
to SSC	0
to Film Festivals	0
to Sponsorship Meetings	0
to SportAccord	0
to IF Forum	0
to Rock Climbing Festivals	0
to CCC Taskforce Meetings	0
to other meetings (member anniversaries; conflict,; issues; UNFCCC; Sport Positive Summit)	0
TOTAL	0

Table 18 - CO₂ Emissions generated by Airplane Travel of Manufacturer Reps

This category name of people has been changed from 2019. It now says “Manufacturer Representatives” rather than the previous “Safety Label Holder”. The “Manufacturer Representatives” refers to those individuals representing manufacturers of climbing and mountaineering equipment, interested and often holding UIAA Safety Labels, who attend the plenary assembly of the UIAA Safety Commission.

30 representatives attended the online plenary assembly in November 2020.

Their airplane travel accounts for 0 tonnes of CO₂ emissions.

6.2.15 Goods' travel

Travel by Air Plane	Goods	
to GA		0
to MC		0
to EB		0
to COM/WG		0
to Sports Events	1.92	
to Trade Shows		0
to RTM Events		0
to Office		0
to Strategy Meeting		0
to IUCN Meeting		0
to SSC		0
to Film Festivals		0
to Sponsorship Meetings		0
to SportAccord		0
to IF Forum		0
to Rock Climbing Festivals		0
to CCC Taskforce Meetings		0
to other meetings (member anniversaries; conflict,; issues; UNFCCC; Sport Positive Summit)		0
TOTAL		1.92

Table 19 - CO₂ Emissions generated by Airplane Travel of Goods

A certain amount of “Goods” get transported for and by the UIAA, such as branding material, sponsors’ in kind gifts, UIAA trophies, medals, etc.

In most cases, and whenever possible, these travel with UIAA delegates to the various locations. The times, that these are traveling by airplane themselves though, account for 1.92 tonnes of CO₂ emissions in 2020, as was the case in 2019.

6.2.16 Guests’ Travel

Travel by Air Plane	Guests (incl. Observers)
to GA	0
to MC	0
to EB	0
to COM/WG	0
to Sports Events	0
to Trade Shows	0
to RTM Events	0
to Office	0
to Strategy Meeting	0
to IUCN Meeting	0
to SSC	0
to Film Festivals	0
to Sponsorship Meetings	0
to SportAccord	0
to IF Forum	0
to Rock Climbing Festivals	0
to CCC Taskforce Meetings	0
to other meetings (member anniversaries; conflict,; issues; UNFCCC; Sport Positive Summit)	0
TOTAL	0

Table 20 - CO₂ Emissions generated by Airplane Travel of Guests

“Guests” of the UIAA refer to official invitees to UIAA meetings and observer federations of the UIAA. In 2020, guests were invited to the UIAA General Assembly, the Management Committee meetings, Executive Board meetings and at times Commission meetings.

The GA was attended by 4 guests.

The Management Committee meetings by 7 guests across all meetings, mostly these were translators.

The Executive Board meetings by 6 guests across all meetings, mostly these were translators.

And 15 guests attended the various Commission meetings.

In 2020, due to the online nature of most UIAA meetings, the travel of official UIAA guests accounted for no emissions, compared to 6.79 tonnes of CO₂ emissions in 2019.

7 FINAL REMARKS

The sum of UIAA CO₂ emissions generated in 2020 is 145.62 tonnes, compared to 353.33 tonnes in 2019 and 365.56 tonnes in 2018. However, a direct comparison of these two figures does not provide for an accurate representation to compare one year to another, since the underlying conditions and factors that lead to the respective CO₂ emissions generated in any given year, differ. It mostly depends on the location and format of annual meetings and the place of travel origin of meeting delegates. Far-off meeting locations generate more CO₂ emissions, yet at the same time, it is centrally located meeting destinations that are attended by more representatives, thus also spiking the amount of emissions generated. Nevertheless, the resulting figures give much opportunity to further reflect on those activities that generate the most emissions, compared to all others that are part of the core operations of the UIAA as an organization.

2020 was a special year, as the COVID-19 pandemic resulted in most meetings to either get cancelled or moved to an online format.

Many travel policies to reduce CO₂ impact promote the principle of "avoid, reduce, compensate" in that order. The UIAA, through the support and participation of its Mountain Protection Commission and the newly created UIAA Climate Change Task Force, will seek to draft such as policy as a next step in its fulfilment of the 5 principles set out by the UNFCCC.

8 Annex I

Table 2 - CO₂ Emissions generated through UIAA delegates' Travel by Plane

Travel by Air Plane	Office staff	EB members	MC members	GA delegates/ MF rep	Honorary Members	Unit Members	UIAA Court members	COM full members	COM corresponding member	Officials	Athletes	Production Crew	Accredited Lab	Manufacturer	Goods	Guests (incl. Observers)	CO ₂ , tonnes
to GA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to MC	0.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.36
to EB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to COM/MG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to Sports Events	1.63	0.29	0	0	0	0	0	0	0	10.42	122.56	7.1	0	0	0	1.92	143.92
to Trade Shows	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to RTM Events	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to Office	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to Strategy Meeting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to IUCN Meeting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to SSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to Film Festivals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to Sponsorship Meetings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to Sport Accord	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to IF Forum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to Rock Climbing Festivals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to CCC Taskforce Meetings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
to other meetings (member anniversaries; conflict.; issues; UNFCCC; Sport Positive Summit)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1.99	0.29	0	0	0	0	0	0	0	10.42	122.56	7.1	0	0	0	1.92	144.28