

STOCKHOLM INTERNATIONAL PEACE RESEARCH INSTITUTE

# **ANNUAL REVIEW 2021**

# STOCKHOLM INTERNATIONAL PEACE RESEARCH INSTITUTE

SIPRI is an independent international institute dedicated to research into conflict, armaments, arms control and disarmament. Established in 1966, SIPRI provides data, analysis and recommendations, based on open sources, to policymakers, researchers, media and the interested public.

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STOCKHOLM INTERNATIONAL PEACE RESEARCH INSTITUTE

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# **WELCOME TO SIPRI'S ANNUAL REVIEW 2021**

The year 2021 was marked by an important step forward in nuclear arms control, the impact of the Covid-19 pandemic, an increase in violent conflict, rising geopolitical risks and a growing awareness of the urgency of decisive action on climate change. This was the background to SIPRI's continuing research and our dialogue and conferencing activities.

Early in the year, the renewal of the Russia–United States strategic arms agreement, New START, brought some stability to geopolitics. This had dissipated by the end of the year, as tensions rose between Russia and the USA over Ukraine, and between China and the USA over Taiwan. Meanwhile, the review conference of the 1968 Nuclear Non-Proliferation Treaty was delayed again, and the survival of the Iran Nuclear Deal was in grave doubt. At the very start of 2022, a joint statement by China, France, Russia, the United Kingdom and the USA affirmed that 'a nuclear war cannot be won and must never be fought.' At a time of high tension, this was welcome and encouraging.

But only few weeks later, the European security horizon changed fundamentally. The current architecture of security did not prevent the war in Ukraine. The consequences of this have yet to take a clear shape and will be part of SIPRI's focus henceforth.

SIPRI's work remained in high demand throughout 2021. SIPRI experts briefed the United Nations Security Council and other bodies on issues ranging from arms export controls to the impact of climate change on insecurity. SIPRI's data on military spending, the arms trade, nuclear weapons and arms production received substantial international attention.

SIPRI's impartiality and fidelity to the evidence are more valuable than ever in today's fraught security landscape. The danger is that a high level of risk comes to be seen as business as usual. SIPRI remains committed to contributing to an informed global conversation on finding ways to manage risk and forge a more peaceful path. In the light of the current developments in Ukraine, it remains a formidable challenge.

For a more peaceful world,

Dan Smith Director

# **JANUARY 2021**

# **LOCALLY DRIVEN SOLUTIONS TOWARDS PEACE**

Much of SIPRI's research draws on regional and local understandings of drivers of conflict and peace. Where conflicts are compound and complex, SIPRI strives to aid decision makers by feeding local solutions into policy recommendations. One example of this is SIPRI's data collection in central Mali—the project uses quantitative and qualitative research methods to offer unique insight into the situation on the ground. In August, a SIPRI Reflection film was created with Point Sud, the Institute's local partner, to outline this methodology.

Another region where local understandings shape SIPRI research is the Middle East and North Africa, where interviews and surveys serve as the main window for insight and nuanced understanding of complex problems. In 2021 SIPRI's newly established Middle East and North Africa Programme launched a series of publications that use interviews to explore how Iraq and Lebanon's governance problems can be addressed.



Participants in the SIPRI-Point Sud project in central Mali.

A map of Maghreb and the Sahel.

#### 15 JANUARY: SIPRI publication

Dr Nan Tian and Fei Su publish the paper A New Estimate of China's Military Expenditure.

#### 18 JANUARY: SIPRI publication

Amal Bourhrous, Dr Dylan O'Driscoll and Dr Virginie Baudais publish the paper Conflict Mediation and Peacebuilding in the Sahel: The Role of Maghreb Countries in an African Framework.

## 20 JANUARY: SIPRI publication

Dr Elise Remling and Amar Causevic publish the paper Climate-related Security Risks in the 2020 Updated Nationally Determined Contributions.

#### 22 JANUARY: SIPRI film

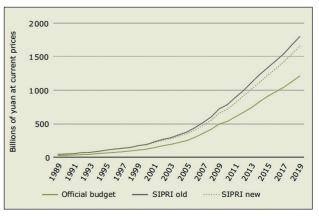
SIPRI releases a film capturing a selection of insights from global actors on the shared challenges to international cooperation and ways forward.

#### 29 JANUARY: SIPRI event

SIPRI and the International Peace Institute co-host a virtual expert-level dialogue with United Nations Peacebuilding Commission (PBC) members, on exploring the PBC as a forum for discussions on climate-related security risks.

## 29 JANUARY: SIPRI commentary

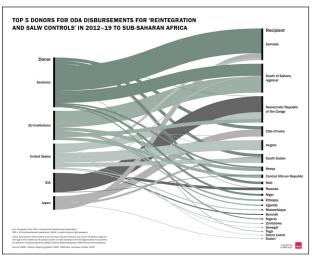
Dr Lora Saalman writes the blog 'USA–India strategic continuity in the Biden administration transition'.



Visual representation of Chinese military expenditure, 1989–2019.



Participants in a SIPRI–International Peace Institute expertlevel virtual dialogue with United Nations Peacebuilding Commission members, 29 January 2021.



Visual representation of the top five donors for ODA disbursements for 'reintegration and SALW controls' to sub-Saharan Africa. 2012-19.



National meeting of women in Argentina, 2016.

# 4 FEBRUARY: SIPRI news

SIPRI and the Norwegian Institute of International Affairs sign a three-year cooperation agreement with funding from the Norwegian Ministry of Foreign Affairs to inform the United Nations Security Council about climate-related security and development risks.

#### 9 FEBRUARY: SIPRI commentary

Dr Nan Tian and Dr Lucie Béraud-Sudreau write the topical backgrounder 'Reassessing SIPRI's military expenditure estimate for the United Kingdom'.

# 18 FEBRUARY: SIPRI commentary

Dr Marina Caparini and José Francisco Alvarado Cóbar write the blog 'Overcoming barriers to grassroots inclusion in peace processes'.

# 19 FEBRUARY: SIPRI publication

Annelies Hickendorff and Igor Acko publish the report *The European Union Training Mission in the Central African Republic: An Assessment*.

#### 19 FEBRUARY: SIPRI news

Dan Smith and Dr Renata Dwan give an informal briefing on 'conflict futures' to the 15 United Nations Security Council permanent and non-permanent representatives.

#### **22 FEBRUARY: SIPRI commentary**

Dr Florian Krampe writes the topical backgrounder 'Why United Nations peace operations cannot ignore climate change'.

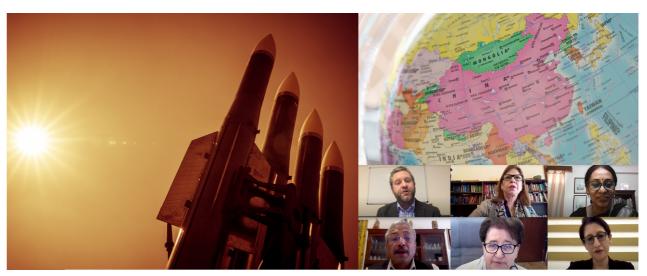
#### 25 FEBRUARY: SIPRI publication

Lucile Robin and Giovanna Maletta publish the paper Supporting Small Arms and Light Weapons Controls through Development Assistance: The Case of sub-Saharan Africa.

# FEBRUARY 2021

# **NUCLEAR CHALLENGES AND ARMS CONTROL IN SOUTH ASIA**

Over the year, SIPRI set in motion a number of discussions, publications and think pieces to enhance dialogue and confidence-building measures in South Asia. The initiative aims to provide background and context to nuclear risks in the region. In February, a video series on the perceptions of these challenges was launched, featuring experts from India, Pakistan, Russia and the United States—voicing key players in the region. Later in the year, several publications provided an overview of views on nuclear postures and escalation risks affecting South Asia, including an assessment as to how the Covid-19 pandemic might have affected the situation. These efforts offer building blocks for the next steps on engagement in South Asia.



Left: An anti-aircraft missile system.

Top right: Close-up of a globe map centred on China and South Asia.

Bottom right: Speakers in SIPRI's Spotlight film series 'Perceptions on nuclear challenges in South Asia'.

# **MARCH 2021**

# CHALLENGES AND OPPORTUNITIES IN SHIFTING POWER DYNAMICS

SIPRI is committed to supporting the international conversation between global stakeholders in peace and security. Against the backdrop of greater geopolitical competition between major power centres, the importance of finding contexts for cooperation is growing. One arena where this dynamic is evident is in the Arctic. Here, the activities of China, Russia and the United States are making a substantial impression. With increased activity in the region, the risk of unwanted escalation in military tension—mirroring relations among the major powers arising elsewhere—is fuelling the importance of establishing frameworks to address military security challenges in the area. In March, a SIPRI Insights on Peace and Security paper examined these challenges, calling for engagement from both Arctic and non-Arctic states to find a balance between cooperation and competition.



Security developments in the Arctic are continually monitored by SIPRI researchers.

#### 5 MARCH: SIPRI film

SIPRI releases the Peace Points film 'Reflections on the arms control agenda in 2021'.

## 11 MARCH: SIPRI publication

Dr Ian Anthony, Jiayi Zhou, Dr Jingdong Yuan, Fei Su and Jinyung Kim publish the paper *China–EU* Connectivity in an Era of Geopolitical Competition.

# 15 MARCH: SIPRI publication

Alexandra Kuimova, Siemon T. Wezeman and Pieter D. Wezeman release the fact sheet *Trends in International Arms Transfers*, 2020.

#### 16 MARCH: SIPRI news

SIPRI experts give evidence to the British Parliament Committees on Arms Export Controls as part of the committees' inquiry into British arms exports in 2019.

#### 19 MARCH: SIPRI publication

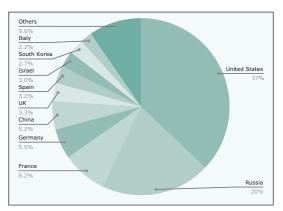
Dr Elise Remling and Anniek Barnhoorn publish the paper A Reassessment of the European Union's Response to Climate-related Security Risks.

## 30 MARCH: SIPRI publication

Dr Ian Anthony and Fei Su publish the paper A Strategic Triangle in the Arctic? Implications of China–Russia–United States Power Dynamics for Regional Security.



Dr Andrea Edoardo Varisco, Programme Director, Dr Sibylle Bauer, Director of Studies, and Kolja Brockmann, Researcher, brief the British Parliament Committees on Arms Exports Controls, 16 March.



Visual representation of the global share of major arms exports, 2016–20.



Dr Vongai Murugani, Researcher, comments on the current state of women in leadership positions in peace processes, 8 March.



SIPRI hosts a webinar on 'Perspectives on the arms control agenda in 2021: Obstacles and opportunities', 14 April. Discussants include HE Izumi Nakamitsu, Major General (Retd) Yao Yunzhu and Dr Andrey Kortunov.



SIPRI and the United Nations Development Programme (UNDP) co-organize an event on 'Peace, development and humanitarian action: Getting to a common understanding', 23 April.

# 1 APRIL: SIPRI publication

Dr Lora Saalman and Dr Petr Topychkanov publish the paper South Asia's Nuclear Challenges: Interlocking Views from India, Pakistan, China, Russia and the United States.

#### 14 APRIL: SIPRI event

SIPRI hosts the event 'Perspectives on the arms control agenda in 2021: Obstacles and opportunities'.

#### 15 APRIL: SIPRI news

SIPRI welcomes Ambassador Chan Heng Chee and Dr Feodor Voitolovsky as new Governing Board members.

## 16 and 29 APRIL: SIPRI commentary

Robert E. Kelley writes the essays 'How much of a proliferation threat is Iran's uranium enrichment?' and 'Why is Iran producing 60 per cent-enriched uranium?'.

#### 20 APRIL: SIPRI publication

Dr Farah Hegazi, Dr Florian Krampe and Elizabeth S. Smith publish the paper Climate-related Security Risks and Peacebuilding in Mali.

#### 26 APRIL: SIPRI publication

Dr Diego Lopes da Silva, Dr Nan Tian and Alexandra Marksteiner release the fact sheet *Trends in World Military Expenditure*, 2020.

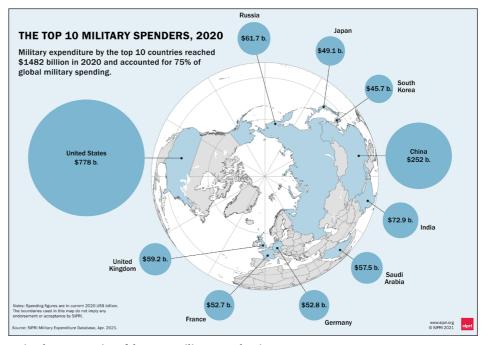
#### 30 APRIL: SIPRI commentary

Alexandra Kuimova, Jordan Smith and Pieter D. Wezeman write the topical backgrounder 'Arms transfers to conflict zones: The case of Nagorno-Karabakh'.

# **APRIL 2021**

# **MEASURING MILITARY SPENDING AND ARMS FLOWS**

According to the military expenditure data released in April 2021, global military spending was estimated to have reached the highest level since 1988. SIPRI's April data launch was covered in over 2700 online news articles and broadcasts in the first five days of publication, demonstrating the demand for reliable data on regional and global military expenditure. SIPRI's military expenditure database is considered to be the world's most comprehensive and consistent of its kind and is consistently used by researchers, policymakers and the public. Aligning with SIPRI's core values of transparency and universality, the database relies on open sources that can be independently verified and includes data for nearly every country.



Visual representation of the top 10 military spenders in 2020.

# **MAY 2021**

# STOCKHOLM FORUM ON PEACE AND DEVELOPMENT

The Covid-19 pandemic reinforced existing risks and challenges to peace and development at a time when the multilateral system was already under great stress to tackle them. To address these issues, the eighth annual Stockholm Forum on Peace and Development combined open high-level policy debates with online sessions on the theme 'Promoting Peace in the Age of Compound Risk'. Co-hosted with the Swedish Ministry for Foreign Affairs on 8–12 May, the dialogue-driven conference explored novel approaches and solutions to promoting peace in the age of compound political, social, economic and environmental risks reinforced by the pandemic.

The virtual conference offered a platform for interdisciplinary exchange among members of international communities in the development, humanitarian, peacebuilding and security spheres. This platform served a global audience, with over 5300 participants from 162 countries hearing a range of diverse voices. The conference offered participants access to 62 sessions that were developed in collaboration with partner organizations.



Left: Live stream setup for the Stockholm Forum on Peace and Development, 8–12 May.
Right: Robyn Kriel, International News Correspondent, and Ann Linde, Swedish Minister for Foreign Affairs, hold a discussion during the forum's opening session 'Managing interconnected risk: Promises and pitfalls of the international system', 8 May.

### 4-7 MAY: SIPRI event

SIPRI hosts the 2021 Stockholm Forum on Peace and Development on the theme of 'Promoting Peace in the Age of Compound Risk'.

# **6 MAY: SIPRI publication**

Dr Tytti Erästö publishes the paper New Technologies and Nuclear Disarmament: Outlining a Way Forward.

# 17 MAY: SIPRI event

SIPRI and the Stimson Center co-host the virtual event 'Recent trends in global arms transfers and military spending'.

#### 17 MAY: SIPRI news

Dr Vincent Boulanin participates in the virtual United Nations Security Council Arria-formula meeting 'The Impact of Emerging Technologies on International Peace and Security'.

#### 18 MAY: SIPRI event

SIPRI hosts the webinar 'China–EU connectivity in an era of geopolitical competition'.

#### 26 MAY: SIPRI commentary and publication

Timo Smit writes the topical backgrounder 'Multilateral peace operations in 2020:

Developments and trends' and issues SIPRI Map of Multilateral Peace Operations, 2021.



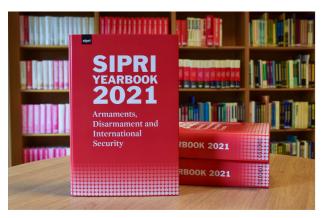
Dr Vincent Boulanin, Senior Researcher, briefs a United Nations Security Council Arria-formula meeting on 'The Impact of Emerging Technologies on International Peace and Security', 17 May.



HE Dr Madeleine Albright, former Secretary of State of the United States, delivers the third annual SIPRI Lecture, 24 May.



Jing Men, Professor at the School of Foreign Languages, Dalian University of Technology in China, speaks at a SIPRI webinar on China–EU connectivity, 18 May.



 $SIPRI\ Yearbook\ 2021$  assesses the current state of armaments, disarmament and international security.



A 'Battlespace Exploitation of Mixed Reality' lab located at the Space and Naval Warfare Systems Center Pacific.



SIPRI, the Friedrich-Ebert-Stiftung and the Norwegian Institute of International Affairs host a webinar on climate-related security risks in West Africa, 17 June.

#### 8 JUNE: SIPRI film

SIPRI releases the film 'How the EU and China connect' featuring Jiayi Zhou.

# 11 JUNE: SIPRI news

SIPRI and the Norwegian Institute of International Affairs launch the Nordic-Baltic Network on Climate, Peace and Security.

#### 14 JUNE: SIPRI news

SIPRI launches the SIPRI Yearbook 2021, featuring the key finding that despite an overall decrease in the number of nuclear warheads in 2020, more warheads have been deployed with operational forces.

# 16 JUNE: SIPRI publication

Netta Goussac, Laura Bruun and Dr Vincent Boulanin publish the paper Autonomous Weapon Systems and International Humanitarian Law: Identifying Limits and the Required Type and Degree of Human–Machine Interaction.

## 22 JUNE: SIPRI commentary

Dr Jannie Lilja and Dr Gary Milante write the blog 'Financing peacebuilding ecosystems'.

### 28 JUNE: SIPRI publication

Dr Caroline Delgado, Dr Vongai Murugani and Dr Kristina Tschunkert publish the paper Food Systems in Conflict and Peacebuilding Settings: Pathways and Interconnections.

#### 29 JUNE: SIPRI event

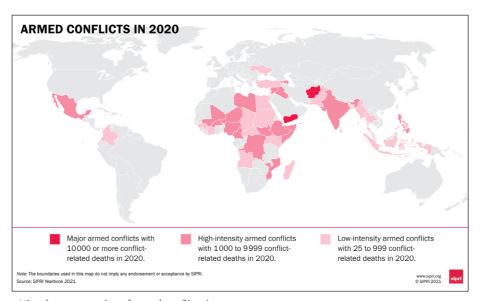
SIPRI hosts an online briefing for a Group of Governmental Experts' delegates on autonomous weapon systems and international humanitarian law.

# **JUNE 2021**

# THE SIPRI YEARBOOK

With its quintessential red cover, the SIPRI Yearbook has been a regular and reliable source of information on peace and security since its first edition in 1969. Now in its 52nd edition, the SIPRI Yearbook serves as the Institute's flagship publication, providing an annual snapshot of international stability and human security as made evident by SIPRI research.

The SIPRI Yearbook is released in conjunction with fresh data on the world nuclear forces, while also analysing data from the year past and giving depth and nuance to earlier coverage on topics such as the global arms trade, world military expenditure and multilateral peace operations. In addition to this, the latest edition of the SIPRI Yearbook includes insight on developments in conventional arms control; regional overviews of armed conflicts and conflict management; and comprehensive coverage of efforts to counter chemical and biological security threats.



Visual representation of armed conflicts in 2020.

# **JULY 2021**

# **OUTREACH**

Dedicated to upholding a strong connection to audiences near and far, SIPRI arranges and participates in numerous events, seminars and conferences each year. In 2021, this meant a continued engagement with online communities. Many virtual events are live streamed and available to view on Facebook and YouTube, alongside selected video material. SIPRI's video collection highlights recent research, current events and offers the Institute's nuanced understanding to local experts, activists, governments and the private sector.

The Institute's social media activity is a vital and engaging medium for communication with the public, complemented by media appearances where SIPRI researchers share and analyse findings in various media outlets. In 2021, reference to SIPRI was made in over 34 000 media articles and blogs from 140 countries—demonstrating the far-reaching engagement.



SIPRI events moved online due to the Covid-19 pandemic.

# 27 JULY: SIPRI event

SIPRI, the Food and Agriculture Organization and the World Food Programme co-host the event 'From Conflict and Hunger to Stability and Nourishment: A Comprehensive Approach to Peace, Development and Humanitarian Action' affiliated with the United Nations Food Systems Pre-Summit.

## 30 JULY: SIPRI film

SIPRI releases the film 'New technologies and nuclear disarmament' featuring Dr Tytti Erästö.

SIPRI content can be accessed on several social media platforms:

Facebook @sipri.org

LinkedIn @SIPRI

Twitter @SIPRIorg

YouTube @SIPRlorg1



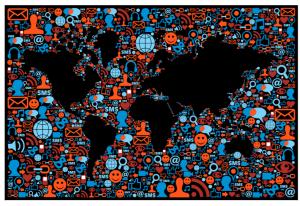
Stephanie Blenckner, Communications Director, speaks with Dr Tytti Erästö, Senior Researcher, in a SIPRI Conversation video on 'New technologies and nuclear disarmament', 30 July.



Live streams, webinars and virtual dialogues remained key components of SIPRI's outreach strategy in 2021.



Per Bolund, Swedish Minister for Environment and Climate, visits SIPRI, 19 August.



Some of SIPRI's work in 2021 looked at how social media can be harnessed for peacebuilding purposes.



The prevalence of surveillance technologies is a theme within SIPRI's work on dual-use and arms trade controls.

## 20 AUGUST: SIPRI publication

SIPRI experts launch a series of five papers taking stock of specific aspects of the 2013 Arms Trade Treaty.

#### 18 AUGUST: SIPRI film

SIPRI releases the film 'The methodology for SIPRI and Point Sud's research in Central Mali'.

# **20 AUGUST: SIPRI commentary**

Dr Simone Bunse writes the topical backgrounder 'Social media: A tool for peace or conflict?'.

# 25 AUGUST: SIPRI commentary

Karolina Eklöw and José Francisco Alvarado Cóbar write the blog 'Surveillance as slow violence: Experiences from young environmental activists'.

# **27 AUGUST: SIPRI film**

SIPRI releases the film 'Food systems, conflict and peacebuilding' featuring Caroline Delgado.

# 31 AUGUST: SIPRI film

SIPRI releases the Peace Points film 'Afghanistan: A long-term perspective'.

# **AUGUST 2021**

# TAKING STOCK OF THE ARMS TRADE TREATY

Aiming to establish the highest possible common standards for regulating the international trade in conventional arms, the Arms Trade Treaty (ATT) entered into force in 2014. As the first legally binding international agreement of its sort, the treaty can be ascribed many achievements since being instated, but there are still areas that can be improved or strengthened.

Towards this aim, SIPRI conducted a stocktaking exercise that resulted in a series of publications including a number of policy options to further strengthen five aspects of the treaty: its scope, the application of its prohibitions and the risk-assessment criteria, its processes and forums, the promotion of its universalization, and support for states' implementation. In connection to the launch of the papers, SIPRI hosted a virtual side event in the framework of the ATT Seventh Conference of States Parties on 3 September. The gathering stimulated discussion within the community on the achievements of the treaty during its first years, the lessons learned, the challenges to ATT implementation and possible ways forward.





Left: Arms Trade Treaty Conference of States Parties, 2017 Right: A selection of SIPRI reports from 2021 that analyse the Arms Trade Treaty.

# **SEPTEMBER 2021**

#### **CLIMATE SECURITY AND INTERNATIONAL INSTITUTIONS**

As solutions to climate change and risk are increasingly associated with social, political and economic processes, SIPRI is committed to generating timely and actionable information and analysis for decision makers in the field. The Institute's long-term dedication to solving these challenges was solidified by the continuation of the Environment of Peace initiative, led under the guidance of a distinguished panel of international experts. In 2021, the panel addressed how climate change affects peace and security through various workshops and events. The initiative will culminate with the release of a comprehensive report in 2022.

There was also a new cooperation agreement between SIPRI and the Norwegian Institute of International Affairs which is intended to inform the United Nations Security Council about climate-related security and development risks for selected countries and regions. The Institute's close work with international institutions was on display at a high-level event in Vienna, organized by the Swedish delegation to the Organization for Security and Co-operation (OSCE) in Europe as part of Sweden's chair of the organization. Here, SIPRI experts suggested pathways for the OSCE to advance its role in the field of climate security.



Upper Left: SIPRI and the Norwegian Institute of International Affairs co-lead the virtual launch of the Nordic-Baltic Network on Climate, Peace and Security, 11 June.

Lower Left: Ilwad Elman, Environment of Peace initiative panellist, addresses a meeting of the United Nations Security Council on the effects of climate change on international peace and security, 23 September.

Right: SIPRI experts join a high-level event on the role of the Organization for Security and Co-operation in Europe in the field of climate security, 29 September.

#### 1 SEPTEMBER: SIPRI commentary

Robert E. Kelley writes the expert comment 'Implications of the reported new activity at North Korea's Yongbyon nuclear complex'.

## 3 SEPTEMBER: SIPRI event

SIPRI hosts the virtual side event 'Taking stock of the Arms Trade Treaty: The first six years and the way forward' in the framework of the treaty's Seventh Conference of States Parties.

#### 13 SEPTEMBER: SIPRI film

SIPRI releases the Peace Points film 'Afghanistan: A long-term perspective'.

#### 17 SEPTEMBER: SIPRI book

Dr Malin Mobjörk and Eva Lövbrand publish the SIPRI–Oxford University Press book Anthropocene (In)securities: Reflections on Collective Survival 50 Years After the Stockholm Conference.

#### 23 SEPTEMBER: SIPRI commentary

Kheira Tarif, Emilie Broek and Katongo Seyuba write the blog 'Abyei offers lessons for the region on climate-related security risks'.

#### 28 SEPTEMBER: SIPRI publication

Dr Kristina Tschunkert publishes the paper *The*World Food Programme's Contribution to Improving
the Prospects for Peace in Lebanon.

## 29 SEPTEMBER: SIPRI news

SIPRI joins a high-level event on the role of the Organization for Security and Co-operation in Europe in the field of climate security.



As the US formally withdraws troops from Afghanistan, SIPRI issues a series of topical backgrounders on arms transfers to the country, multilateral peace operations and US military aid to Afghanistan.



SIPRI hosts the Yemeni Minister of Foreign Affairs, HE Dr Ahmed Awad Bin Mubarak, as part of his official visit to Sweden, 10 September.



SIPRI hosts a webinar on 'South Asia's nuclear future: SIPRI's project findings', 29 September.



The proliferation risks of additive manufacturing (3D printing) are frequently analysed by SIPRI researchers.



 $\label{thm:conference} \mbox{Dr Lora Saalman, Senior Researcher, onscreen in the conference hall of the Beijing Xiangshan Forum, 26 October.}$ 



Panellists of SIPRI's Environment of Peace initiative address a virtual seminar on peace and climate change organized by the International Peace Bureau, the Olof Palme International Center and the International Trade Union Confederation, 19 October.

### **6 OCTOBER: SIPRI event**

SIPRI and the United Nations Department of Peace Operations co-host a webinar on the impact of Covid-19 on peace operations.

# 14 OCTOBER: SIPRI news

Dan Smith and Dr Caroline Delgado write the main essay of the 2021 Global Hunger Index report, focusing on hunger and food systems in conflict settings.

## 15 OCTOBER: SIPRI news

SIPRI releases the film 'Promoting peace in the age of compound risks' based on discussions recorded during the Stockholm Forum on Peace and Development.

#### 19 OCTOBER: SIPRI news

Margot Wallström and Helen Clark, Environment of Peace initiative panellists, address a virtual seminar on peace and climate change organized by the International Peace Bureau, the Olof Palme International Center and the International Trade Union Confederation.

#### 26 OCTOBER: SIPRI publication

Kolja Brockmann publishes the paper Additive
Manufacturing for Missiles and Other Uncrewed
Delivery Systems: Challenges for the Missile
Technology Control Regime and writes an associated
topical backgrounder 'The Missile Technology
Control Regime at a crossroads'.

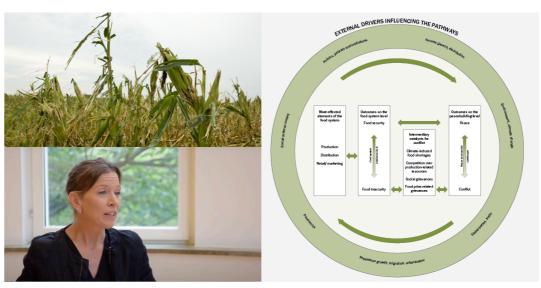
## 26 OCTOBER: SIPRI news

Dan Smith and Dr Lora Saalman participate in the Beijing Xiangshan Forum webinar 'Pursue Win-Win Cooperation, Advance Global Security Governance'.

# **OCTOBER 2021**

# **CONNECTING HUNGER AND CONFLICT**

Violent conflict remains a major driver of global hunger. At the same time, heightened food insecurity may create grievances that can escalate into instability and violent conflict. As the world pursues a peaceful future, access to food—with its vital and far-reaching impact on security—remains fundamental. In 2021, SIPRI researchers contributed to the *2021 Global Hunger Index*; writing the main essay of the report, they identified four priorities for making effective progress. They were also engaged in 'Fix the Food Conference', co-hosted by the Nobel Peace Center and the World Food Programme (WFP). SIPRI's partnership with the WFP is an emblem of the Institute's efforts to address the intersection between hunger and conflict. This important work aims to expand the evidence base of the interconnectedness of food and security while also broadening the concept to areas such as stabilization, climate change, gender, cash-based programmes and measurement.



Upper Left: A damaged corn field.

Lower Left: Dr Caroline Delgado, Programme Director, is featured in the SIPRI Conversation video 'Food systems, conflict and peacebuilding'.

Right: Visual representation of the relationship between food systems and violent conflict.

# **NOVEMBER 2021**

# BATTLEFIELDS OF THE FUTURE—2021 STOCKHOLM SECURITY CONFERENCE

Held on 8–11 November, the theme for the 2021 Stockholm Security Conference was 'Battlefields of the Future: Trends of Conflict and Warfare in the 21st Century'. Organized online for the second time, the conference grew beyond previous occasions, gathering over 800 registered participants across 17 thematic sessions.

The thematic sessions explored how current developments in technology have opened cyberspace, outer space and the mental space as potential new battlefields of the future and how to prevent and mitigate associated risks. Additionally, the conference examined to what extent the more traditional types of warfare are adapting to newly available means or providing non-traditional actors with opportunities to have a bigger role. The conference connected the battlefields of the future to those of the past by concluding with the ceremony for the 2021 Ypres Peace Prize that was awarded to the Campaign to Stop Killer Robots.



Upper Left: Major General Darrell Amison (DCDC), and Dr Cordula Droege (ICRC), at the Opening Panel of the Stockholm Security Conference, 8 November.

 $Lower \ Left: Dr \ Renata \ Dwan, Chatham \ House \ Deputy \ Director \ and \ Senior \ Executive \ Officer, at the Stockholm \ Security \ Conference.$ 

Right: Live stream set up for the Stockholm Security Conference.

#### 8-11 NOVEMBER: SIPRI event

SIPRI hosts the 2021 Stockholm Security
Conference on the theme 'Battlefields of the Future:
Trends of Conflict and Warfare in the 21st Century'.

#### 10 NOVEMBER: SIPRI commentary

Giovanna Maletta and Eric G. Berman write the blog 'The transfer of weapons to fragile states through the European Peace Facility: Export control challenges'.

#### 12 NOVEMBER: SIPRI event

SIPRI hosts an online roundtable discussion on the theme 'Chinese ODA in Africa and implications for the international aid architecture'.

#### 22-25 NOVEMBER: SIPRI event

SIPRI and the Friedrich-Ebert-Stiftung co-host two dialogue events on United Nations and non-UN multilateral peace operations and non-traditional security challenges in Geneva.

#### 29 NOVEMBER: SIPRI publication

Dr Claudia Pfeifer, Timo Smit and Dr Jaïr van der Lijn publish the fact sheet Women in Multilateral Peace Operations in 2021: What is the State of Play?

#### 30 NOVEMBER: SIPRI news

Dan Smith receives the fourth Jeju 4·3 Peace Prize for his research and work on security, reconciliation and peacebuilding in many parts of the world, especially the Korean Peninsula.



Timo Smit, SIPRI Researcher, launches the paper Strengthening EU Civilian Crisis Management: The Civilian CSDP Compact and Beyond in Bruseels, 18 November.



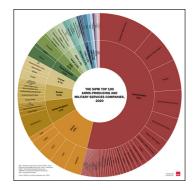
SIPRI hosts an online roundtable discussion on the theme 'Chinese ODA in africa and implications for the international aid architecture', 12 November.



Dr Claudia Pfeifer, Researcher, and Dr Jaïr van der Lijn, Senior Researcher and Programme Director, present research on 'New geopolitics of peace operations' project at a meeting in Geneva. 22–25 November.



Matt Korda, Associate Researcher, speaks at a virtual event on 'Nuclear disarmament and arms control: The state of play', 14 December.



Visual representation of the top 100 arms-producing and military service companies, 2020.



SIPRI hosts the Ukrainian Minister of Defence, Oleksiy Reznikov, as part of his official visit to Sweden, 15 December.

#### **6 DECEMBER: SIPRI publication**

Alexandra Kuimova, Alexandra Marksteiner, Dr Lucie Béraud-Sudreau, Dr Nan Tian and Dr Diego Lopes da Silva publish the fact sheet *The* SIPRI Top 100 Arms-producing and Military Services Companies, 2020.

#### 7 DECEMBER: SIPRI commentary

Nivedita Raju writes the essay 'Russia's anti-satellite test should lead to a multilateral ban'.

## 9 DECEMBER: SIPRI news

Margot Wallström introduces SIPRI's Environment of Peace initiative at her keynote address to the 'Workshop on Climate, Peace and Security: How to Operationalise Principles on Environmental Peacebuilding' held in Seville, Spain.

#### 13 DECEMBER: SIPRI publication

Dr Vongai Murugani, Dr Caroline Delgado, Marie Riquier and Dr Kristina Tschunkert publish the paper Food Systems in Conflict and Peacebuilding Settings: Case Studies of Venezuela and Yemen.

#### 13 DECEMBER: SIPRI commentary

Florian Krampe and Cedric de Coning write the expert comment 'Russia's "nyet" does not mean climate security is off the Security Council agenda'.

#### 14 DECEMBER: SIPRI event

SIPRI and the Alva Myrdal Centre for Nuclear Disarmament at Uppsala University co-host the virtual event 'Nuclear disarmament and arms control: The state of play'.

# 17 DECEMBER: SIPRI publication

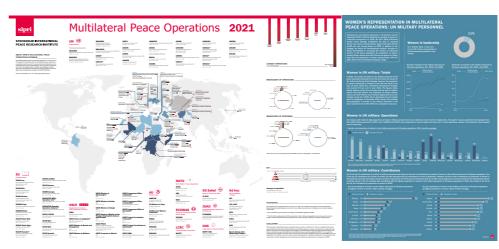
Dr Kyungmee Kim, Emilie Broek, Elizabeth S. Smith, David Michel, Erwin de Nys and Nicolas Salazar Godoy publish the paper Water Cooperation in the Horn of Africa: Addressing Drivers of Conflict and Strengthening Resilience.

# **DECEMBER 2021**

# MAPPING MULTILATERAL PEACE OPERATIONS

Offering both analysis of long-term development and timely assessments, SIPRI's work on peacekeeping operations is constantly evolving and adapting to the realities on the ground. The long-standing SIPRI Multilateral Peace Operations Database and the related Multilateral Peace Operations Map present annual snapshots of multilateral peace operation deployments. In 2021, the programme also explored the future of peace operations and the effect on these by environmental degradation and resource scarcity as well as epidemics and pandemics.

A focal point for the work is monitoring the process of implementing the United Nations Security Council Resolution 1325 in peace operations and conflict management. More than 20 years after the adoption of the resolution, there is still disagreement on the role peace operations should play in the women and peace and security (WPS) agenda. In November, SIPRI launched a data visualization booklet on women in multilateral peace operations. The booklet provides an overview of women's representation in leadership roles, overall personnel numbers and member state contributions.

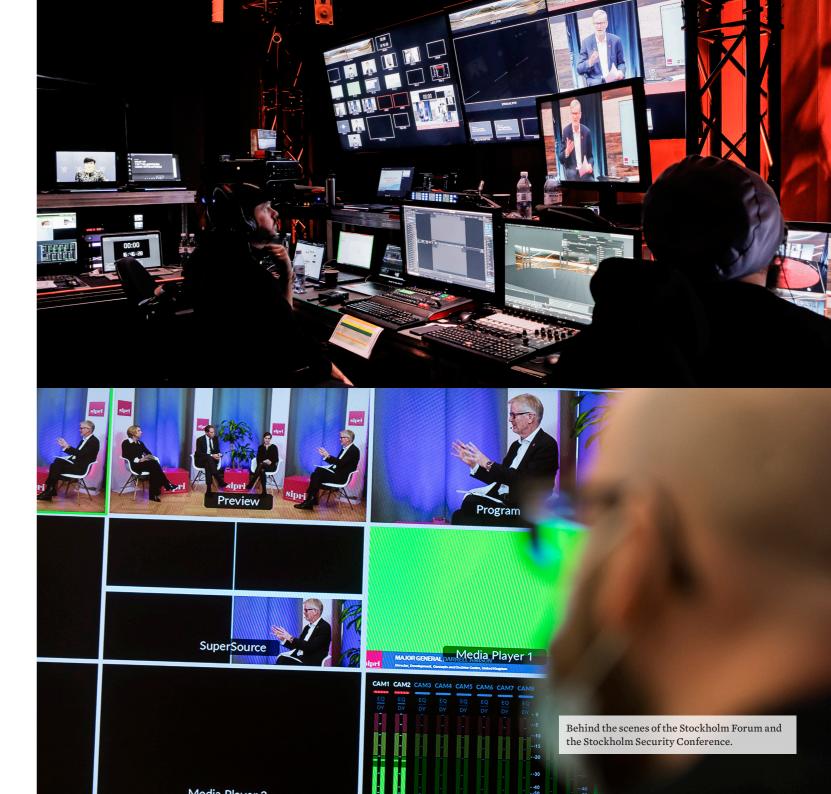


Left: Visual representation of multilateral peace operations.

Right: Visual representation of women in the UN military personnel of multilateral peace operations.

# **FACTS AND FIGURES**

- At the end of 2021, the number of employees at SIPRI was 84, of which 32 were men and 52 were women.
- SIPRI had 49 full-time research staff on average during 2021, with 27 different nationalities.
- SIPRI published 51 titles and over 30 online commentaries in various formats.
- Full translations of *SIPRI Yearbook 2021* were published in Arabic, Russian and Ukrainian, while summaries in 2021 were issued in Catalan, Dutch, English, French, Italian, Korean, Spanish and Swedish.
- At the end of 2021, SIPRI had over 73 000 followers on Twitter, more than 25 490 page likes on Facebook and over 16 600 followers on LinkedIn.
- In 2021 SIPRI was featured in over 30 000 global media outlet stories and an additional 4 000 blogs across 140 countries.
- SIPRI issued 87 targeted mailings and newsletters, as well as over 75 news items and press releases.
- SIPRI's YouTube channel generated over 242 days of total watch time and holds a viewership of over 58 300.



# **JANUARY—DECEMBER 2021**

SIPRI's annual accounts are prepared in accordance with the Annual Accounts Act. Figures are in SEK.

FINANCES	2021	2020
Income		
Parliamentary Core Grant	28 402 000	28 402 000
Funding from external projects	73 407 534	61 862 516
Royalties	176 133	155 436
Other	1434	2 530
Rental income	0	0
Total	101 987 101	90 422 482
Expenditure		
Project expenditure from grants	-30 760 626	-24 567 062
Administrative expenditure	-8 067 462	-9 487 863
Staff costs	-62 406 572	-53 994 445
Depreciation	-153 439	-428 815
Operating profit	599 002	1942297
Financial income		
Financial net amount	810 500	-421 580
Change in capital this year	1409 502	1 520 717



A section of SIPRI's annual staff photo taken on the occasion of the meeting of the Governing Board, 18 November.

# PHOTO CREDITS

National meeting of women, photo by Soyyosoycocomiel/Wikimedia, p. 4.

FMSC Staff Trip 2011 – Somali Drought, photo by FMSC/Flickr, p. 8.

BEMR lab, photo by Office of Naval Research/Flickr, p. 12.

Surveillance equipment, photo by BWP135/ Unsplash, p. 16. Polish troops, photo by Combat Camera Poland/ Flickr, p. 18.

3D printing equipment, photo by Minkus/Unsplash, p. 20.

