

**Combined Space Operations Center
Dedication Ceremony**



JULY 18, 2018

LARGE: Good morning, ladies and gentlemen. On behalf of General Jay Raymond, Joint Force Space Component Commander, welcome to Vandenberg Air Force Base, an operating location of the Joint Force Space Component Command and the home of the 14th Air Force Flying Tigers. I am Wing Commander Ben Large and I will serve as your narrator for today's ceremony.

Throughout today's event, you will be given cues to stand and be seated at the appropriate times. As a reminder, during the playing of musical honors and the national anthems, military members should stand at attention. Civilians are asked to please stand and show respect during the national anthems.

Ladies and gentlemen, please stand for the arrival of the official party and remain standing for the playing of honors, the presentation of the colors, the playing of national anthems, followed by the invocation.

<music / pomp and circumstance>

[8:26]

MARIUS: Please bow your heads.

We give you thanks, oh God, creator of the universe, for your abundant gifts. By your holy wisdom, all things have been made to reflect your glory, for the sustenance of life, and for the use and delight of your living creatures. Send your blessing upon us and upon this Combined Space Operations Center, which we dedicate today to your praise and honor. As our horizons stretch well beyond the sky above, may we continue to expand our missions and further our orbits. May the cooperation and collaboration between nations and commercial enterprise aid in bringing peace and

prosperity to our Earth. Strengthen these bonds of friendship between our allies so that our mutual trust and support of one another will provide the necessary thrusts to extend our capabilities and broaden our reach to the benefit of all we serve. Care for all who would carry out the mission of the CSpOC so that the work they execute may contain your joy and lead to discovery, deeper understanding, and a developing responsibility of our stewardship to your universe. In your holy name, we humbly pray. Amen.

LARGE: Thank you, Chaplain Marius. Ladies and gentlemen, please be seated.

It is a pleasure to welcome you to witness the dedication of the Combined Space Operations Center as it replaces the Joint Space Operations Center. I would first like to recognize some of our distinguished guests joining us today—please hold your applause until the end of the recognition.

Joining General Raymond in the official party today are Air Attaché Embassy of Australia Air Commodore Terry van Haren, Royal Australian Air Force; Director General and Component Commander Space, Brigadier General Kevin Whale, Royal Canadian Air Force; Battlespace Management and Space Force Commander, Air Commodore Richard Moir, Royal Air Force. We are also pleased to welcome Director National Reconnaissance Office, Ms. Betty Sapp; Director Joint Force Space Component Commander and 14th Air Force Commander Major General Stephen Whiting and his wife Tammy; Command Chief Air Force Space Command, Chief Master Sergeant Brendan Criswell; District Representative to U.S. Congressman Salud Carbajal, Ms. Wendy Motta; Mayor of Buellton, the Honorable Holly Sierra; District Director to State Senator Hannah-Beth Jackson, Mr. James Joyce III; Field Representative to California Assemblyman Jordan Cunningham, Ms.

Kristen Handley; Director of Operations, Plans, and Exercises, Joint Force Space Component Command, Brigadier General Thomas James; Strategic Missions Advisor to Commander, United States Strategic Command, Mr. Robert Rego; representing the men and women of our host, the 30th Space Wing Base Commander, Colonel Mike Hough and his wife Leslie; 30th Space Wing Honorary Commander Mr. Bob Hatch.

We would also like to extend a warm welcome to the following: Commander 614th Air Operations Center and Director Joint Space Operations Center, Colonel Scott Brodeur and his wife Tara; Superintendent 614th Air Operations Center, Chief Master Sergeant Carl Grieser; Canadian Director General Space Strategy and Policy, Ms. Sarah Pacey; Director Space and Battlespace Management Plans, Group Captain Steven Blockley, Royal Air Force; Commander United Kingdom Space Operations Center, Squadron Leader Sean Langrish, Royal Air Force; the First Combined Deputy Director of the Combined Space Operations Center, Lieutenant Colonel Al Dallaire, Royal Canadian Air Force; German Liaison to the Joint Force Space Component Command, Lieutenant Colonel Lothar Pichler, LUFTWAFFE; United Kingdom Liaison to the Joint Force Space Component Command, Squadron Leader Neal Henley, Royal Air Force.

Finally, we would like to extend a warm welcome to all other general offices, directors, commanders, chiefs, members of the armed forces, community leaders, friends and family in attendance today.

<applause>

[13:06]

When United States Strategic Command activated the Joint Functional Component Command for Space, now the Joint Force Space Component Command, in 2006, the 614th Air Operations Center became the core of the Joint Space Operations Center. At that time, the Joint Space Operations Center assumed responsibility for executing operational command and control of space forces to deliver tailored space-based effects around the world. Since then, the JSpOC has operated 24 hours a day 7 days a week, synchronizing and integrating the planning, tasking, execution and assessment of space operations with joint, combined, and commercial partners. Throughout its history, the Joint Space Operations Center has enjoyed a collaborative and integrated relationship with its Australian, Canadian, and British partners. In this context, the Joint Space Operations Center's transition to a Combined Space Operations Center is not a new concept; rather, it's the next logical step. Building on decades-long cooperation to execute space operations missions and setting the stage for expanded cooperation to integrate the space capabilities of our multinational partners.

Not only are these efforts recognized by our allies; their importance is also valued by our civic partners.

Prior to this ceremony, a certificate of recognition of the men and women of the Combined Space Operations Center was presented by Wendy Motta, District Representative to United States Congressman Salud Carbajal. A certificate of recognition of the men and women of the Combined Space Operations Center was also presented by James Joyce, District Director to State Senator Hannah-Beth Jackson. Additionally, a certificate of recognition of the men and woman of the Combined Space Operations Center was presented by Kristen Handley, Field Representative for California Assemblyman Jordan Cunningham.

Ladies and gentlemen, it is now my pleasure to introduce the Joint Force Space Component Commander, General Jay Raymond.

<applause>

[15:28]

RAYMOND: Good morning. Everybody doing good? It is absolutely wonderful to be back here at Vandenberg—lot of great memories in this high bay, and I'll talk a little bit about this as we go. But it's really an honor and a privilege to be here this morning for this historic—historic dedication ceremony marking the evolution from a Joint Space Operations Center to a Combined Space Operations Center.

I'd like to say 'thank you' to our guests that are here—distinguished visitors from the community, thank you for being here. One of the great things about being stationed at Vandenberg is just that—the support that we get from the community, the local community, and we can't thank you enough.

For friends that are here from a long, long time—Bob Hatch, you've been at every one of these ceremonies that I've been at here, and for all the support that you give, and for all of the leadership that's here—thank you.

I'd like to especially recognize our coalition partners that are here with us today, Air Commodore Terry van Haren from Australia—sir, thank you for being here. Brigadier General Kevin Whale from Canada—sir, thank you. And Air Commodore Richard Moir from the Royal Air Force—thank you, sir, for being here. Also a

special thanks to the Director of the National Reconnaissance Office, Betty Sapp—ma'am, thank you for attending. Your presence means a lot to us.

[16:45]

You know, this high bay is a really special place to me, and typically when you do a ceremony, somebody's really happy and somebody's really sad—the happy person's taking command and the sad person's leaving command, and I've been the happy person a couple of times and the sad person a couple of times. And today it's nothing but happiness because this is all goodness. This is all about strengthening our coalition partnerships that we've been working so hard to develop over the last decade.

As I reflect on this ceremony, though, I think this is—of all the ceremonies I've been to—and there've been multiple; there've been promotion ceremonies, retirement ceremonies, renaming ceremonies—the list goes on and on—but if I look at all of those ceremonies, I think this one is the most significant. This is—this event is way more than a name change; it signifies the recognition of the value of partnerships. It marks a bold shift towards combined operations with our close partners and it strengthens our deterrence posture. We are much stronger together than we are apart.

Another reason why this is so special to me is that the Joint Space Operations Center and its precursors are special to me. And I have been here and seen it from its very earliest stages. The first time I visited, what was leading up to the JSpOC, was back in 1996 as a young—as a captain. I don't know how young I was, but I was a captain. At that time, it was a small flight and there were five people with a laptop and a phone and that was our capability. And if you look at it today, it's obviously quite impressive. In 1997, those numbers grew to about a hundred people and we

expanded it from a flight to a squadron, and then it elevated to group status in 1998. In 1999, it was officially named the Space Air Operations Center—the SpaceAOC. And in 2007, was redesignated as the Joint Space Operations Center and under the command of then Colonel Stephen Whiting, the JSpOC was consolidated into its current facility at that time. And I'd like to take a special moment to highlight Stephen and Tammy Whiting for their leadership, day-to-day leadership, here. Stephen, I couldn't think of a better partner, so thank you—and Tammy, thank you for being here.

[19:03]

So today marks the next step—the evolution of this command and control facility. And again, I couldn't be prouder to be here today with you to help celebrate. I have long known about the importance of the Joint Space Operations Center, but I saw it firsthand back in 2006 and 2007 timeframe when I deployed to the CENTCOM AOR as the Director of Space Forces. Brigadier General Tom James was there with me.

And you know, since the end of Desert Storm, the Air Force and our joint forces have really been focused on integrating space into everything that we do as a military—and there's nothing we do today, from humanitarian assistance, disaster relief, all the way to combat operations that isn't enabled by the integration of information gained from space. And we've done spectacularly at it and it has given us incredible advantage. And we stood up things called the Director of Space Forces and we deployed people forward. I will tell you, though, the unsung heroes to this is the Joint Space Operations Center because forward, what we did is we picked up the phone and called 1-800-HELPME and that was the Joint Space Operations Center—and they delivered without fail.

Again, in 2011 I was stationed in Japan and at that time there was a great earthquake, tsunami, and a nuclear reactor disaster. And again, on the humanitarian assistance/disaster relief side, once again I was in the position of needing space information and I reached out to the Joint Space Operations Center and once again they delivered.

If I look back on Operation Tomodachi, which was the earthquake support, if you will, the thing that I took away from that operation was not really the importance of space, but it was the importance of partnerships. And that in every other domain that we operate in, we operate with our partners and with our allies. And I remember leaving that operation saying "We've gotta develop those same strong partnerships in space as we have in all other domains." Those coalitions are a great source of strength.

[21:06]

So today, as we take a bold step toward strengthening our coalition operations in space, I just reflect that the CSpOC is not just a name change but an evolution in how we conduct operations and command and control in the space domain. By standing up the CSpOC, we're formalizing the strong teamwork we have had with our partners from Australia, Canada, and the United Kingdom and the AOC and several other nations who partner with us in SSA sharing. This cooperation has been on the forefront providing not only our joint space effects but combined space effects to the combined operations globally. Unity of effort in the space domain is created by bringing our current and future partners and allies together.

Our National Security Strategy states that unfettered access to, and freedom of maneuver in space is a vital national interest. Our National Defense Strategy also

places a premium on partnerships and coalitions. Enhancing our partnerships is a Department of Defense, Department of the Air Force, and an Air Force Space Command priority and our Secretary of the Air Force recently said "We will work with like-minded nations to preserve the ability to freely and safely operate in space."

Partnerships always multiply our effectiveness and will strengthen our deterrence posture. We have hundreds of years of experience serving together with our allies in every other domain throughout our nation's history. Space is a normal progression and it should be no different. Strong alliances are absolutely vital to promoting preservation and long-term sustainability in space. The rise of great power competition is challenging and we must be able to maintain space superiority to ensure we continue to benefit from the capabilities provided from our space capabilities.

Conducting operations in the Combined Space Operations Center as a team of nations is absolutely critical to protecting and elevating our combined space capabilities to the next level. Space superiority is not just a multi-domain issue; it's a multi-national issue. As it stands today in the JSpOC, we work together to develop space strategy, planning, effects, as well as conducting crew operations and ensuring situational awareness. A Combined Space Operations Center will increase our ability to operate with our international partners in space. For example, on the 1st of April 2018, the Chinese space station was reentering into the Earth's atmosphere over the Pacific Ocean. If you recall, at that time there was international concern about where the space station might come down. What didn't receive a lot of attention was what was happening behind the scenes and that was here in the Joint Space Operations Center. Our tracking and reporting of its position and our

predictions represented a strong partnership. Nine different nations including the United States all collaborated with data and predictions of where it might reenter.

[24:01]

Building, training, planning and operating together is exactly what we must continue to do. I've already explained the importance of partnerships; now let me highlight a few key coalition partners who have directly contributed to ensuring a seamless transition from the Joint Space Operations Center to the Combined Space Operations Center. Because of these teammates, we are postured to deliver critical space capabilities and provide assured access to, through, and from the space domain. They live and breathe space superiority. Lieutenant Colonel Al Dallaire from Canada—where are you, sir? Thank you. First—Colonel Dallaire is the first coalition member to serve as the Deputy JSpOC Director—I'm sorry, Deputy CSpOC Director—and was previously part of the Joint Force Component Command for Space and the Joint Force Space Component Command staffs. He leads a team of Canadians supporting combined space operations both in the CSpOC and in the 18th Space Control Squadron and he's leading the pack and trailblazing—and blazing trails in his new current role. Sir, I can't thank you enough for stepping up and helping us in this leadership role.

Wing Commander Ben Large—where are you?

<laughter>

Alright. Ben not only is a master narrator; he's currently the CSpOC Planning Division Chief and the first coalition member to fill the Space Control Coordination

Element Team Chief role. He represents the CSpOC and PACOM and EUCOM theaters and has done an absolutely wonderful job.

Squadron Leader Murray 'Huck' Newberry—where are you? Great. Huck is the first coalition Non-Kinetic Duty Officer—a very critical position here in the Combined Space Operations Center. His wife Nicki—are you here, Nicki? Please stand up. Let's give a round of applause for Nicki—and I'll tell you why. Nicki is also a veteran of the Australian Navy and was awarded the 14th Air Force Spouse of the Year in 2017. So thank you.

Lieutenant Colonel Lothar Pichler—where are you, sir? There you are—from Germany. Lothar has been instrumental in providing German support for combined SSA operations. The example that I gave you was the Chinese space station reentry. He provides a German perspective to the CSpOC, IOC planning, and again has been a true trailblazer and we appreciate it.

Squadron Leader Neal Henley—sir? Neal is the first UK liaison officer with the MSC, previously STRATCOM exchange officer and commanding officer of the UK Space Operations Center. He's charged with enhancement of coalition SpOC integration. So sir, thank you.

[26:58]

The establishment of the CSpOC is just the beginning. Our CSpOC family will continue to grow as we identify opportunities to work and team with like-minded nations. There has never been a more exciting time for a combined team to come together than today. This will help maximize effectiveness across multiple mission areas and expand partnerships in support of shared objectives. No one nation can do

this alone. Information must be exchanged between partners and allies to optimize our ability to achieve space superiority.

I am proud—extremely proud and excited for what we have achieved in the past and I'm very excited to see where the CSpOC is gonna lead us from here.

The 18th of July 2018 is a very special day for the space community and you should all be proud of reaching this significant milestone. The partnerships we are forming today will no doubt lead to a more stable and sustainable space domain for years to come.

With that, again, I thank you for being here. I look forward to getting a chance to interact with each and every one of you—and thanks for what you do each and every day to make our operations successful.

<applause>

[28:16]

LARGE: Ladies and gentlemen, General Raymond, Air Commodore van Haren, Brigadier General Whale, and Air Commodore Moir will now sign a combined declaration. The declaration marks the dedication of the Combined Space Operations Center, reasserts our combined intent to share space capabilities, and creates unity of effort in the space domain.

I'd like to invite the official party to now come forward and sign the combined declaration.

The combined declaration reads as follows: To all those who should hear these presents, greeting. Be it known that in recognition of over half a century of cooperation in space and of our respective nations' ongoing dedication to freedom of access, we come together today to establish the Combined Space Operations Center. This center reflects our mutual efforts to expand cooperation and combined mission support in the same manner in which we work together on land, sea, and in the air. While each domain is unique, our determination to ensure the peaceful use of space is no different. The Combined Space Operations Center stands as an example of our unwavering shared desire to work in concert and to expand partnerships with like-minded nations around the globe.

<applause>

[29:52]

Symbols have distinguished friend from foe in warfare throughout recorded history. Military organizations regularly employ emblems—in particular, patches—as a means of identification and esprit de corps. To signify the transformation of the Joint Space Operations Center into the Combined Space Operations Center, a new symbol has been created to depict the collective strength of our partnership and the inherent global reach of space operations.

We will now unveil the new Combined Space Operations Center emblem.

<applause>

Thank you, official party.

Ladies and gentlemen, the first Director of the new Combined Space Operations Center, Colonel Scott Brodeur.

<applause>

[31:15]

BRODEUR: Good morning. I'd like to be the first to welcome you all to the Combined Space Operations Center.

<applause>

General Raymond, General Whiting, Air Commodore van Haren, General Whale, Air Commodore Moir, and distinguished visitors and guests today, Combined Space Team—thanks for being here. This is truly a historic occasion for us and I appreciate your attendance. But now that we've formally established the Combined Space Operations Center, I'd like to take a few minutes to describe for you the broad lines of effort that comprise our strategy that we're going to grow and evolve the CSpOC and its mission.

First, we're expanding the scope of the CSpOC positions to our coalition partners that will enable our ability to conduct combined operations at unprecedented levels. In addition to the five leadership positions that General Raymond noted—the CSpOC Deputy Commander position, the Chief of Current Operations, the Space Control Coordination Element Lead, the Strategic Plans Division Chief, and Non-Kinetic Duty Officer position, next month we'll welcome four additional Canadians to the CSpOC operations floor where they will fill critical Theater Watch Officer and Missile Warning Duty Officer positions. This expands our coalition footprint

in the CSpOC, but more importantly it normalizes coalition integration throughout the diverse mission areas in the CSpOC.

We're exploring opportunities to leverage standing exchange officer agreements to bring allied intelligence analysts to the CSpOC. We're actively seeking future opportunities to expand the scope and the number of combined duty positions to include looking beyond our current partnerships.

We're also expanding opportunities for our coalition partners to access space training and warfighter development and this is a deliberate investment into our space professional cadre.

Secondly, we're improving our interoperability both within the CSpOC and within our partner space operations centers. This will improve our coordination and enhance our individual and our collective space capabilities and expand our—excuse me—expand our effectiveness across all domains.

Right now, we're leveraging information and knowledge management best practices to improve the tools that we're already using. We'll continue ongoing efforts to increase and integrate space situational awareness data from our partners and we'll work to bring additional capabilities to improve our mission assurance, our resilience, and we'll leverage our full capacity of available combined space assets to achieve greater operational impact.

[34:02]

We will levy requirements for space command and control systems and tools to operate at a shared security classification level with our coalition partners and their

operations centers. That's foundational to the CSpOC's mission and our coalition operations in the space warfighting domain.

Finally, and most importantly, we're growing our partnerships. As General Raymond noted, we can't do this alone. Building and maintaining our partnerships is absolutely critical to our success. We will always fight as a coalition and we will never reverse that course. This is a new paradigm in our space business. We'll look to leverage and build from existing relationships and we'll expand these relationships through hosting and visiting our partner space operations centers to work hand-in-hand on our strategy. We'll continue to grow connective tissues with our partners through exercises such as Schriever Wargames and Global Thunder.

We develop our relationships through our commercial integration cell and our partnerships with industry, finding commonality and linkages through the growing space industry ties between our governments.

We will see new partnerships through the multinational space collaboration. We're going to welcome new faces and we're gonna add new flags. We will become stronger and more capable because we draw our strength from our coalition. Our collective capabilities keep our forces on the leading edge.

These three broad lines of effort—expanding the scope of CSpOC positions, improving our interoperability, growing our partnerships are a small subset of the initiatives leading to CSpOC full operational capability.

Today's events signify much more than a name change. We execute operational command and control of space forces to meet theater and global objectives as a coalition.

Thank you all for being here and thank you for being a part of space history today.

<applause>

LARGE: Thank you, Colonel Brodeur. Ladies and gentlemen, this concludes our dedication ceremony. Please join us for a reception at the back of the high bay behind the flags.

In keeping with military tradition, please stand for the departure of the official party.