

Astronaut Chatter

Astronaut Prep and Stepping Onto Surface:

Astronaut	Base Station	Visitor Center
<i>(checks in with AOS assistant when they come back to base station)</i>	<i>(checks in with AOS assistant when they come back to base station)</i>	<i>(checks in with astronaut at base station in person)</i>
		<p><i>Exhibit Wide Announcement:</i> “Attention guests of Mars Visitor Center, join us down by the window looking out to the surface of Mars. Don’t miss this opportunity to meet an astronaut on Mars here in the year 2044. Again, join us by the window to the surface of Mars to meet an astronaut.”</p>
		<i>(crowd gathers)</i>
		<p>Welcome to the Mars Visitor Center. My name is _____. The year is 2044 and we are looking out at the Candor Chasma Base Station in Valles Marineris on Mars. In just a moment, we will meet an astronaut who will be doing some scientific investigation of the area. We will be able to communicate with the astronaut through this microphone. We will hear them checking in soon.</p>
Alright Base Station, I’ve switched over to Public Channel 2.		

	Roger that. I'm reading you _____ by _____ (see <i>astronaut terminology below</i>) on Public Channel 2. How do you read me?	
I'm reading you _____ by _____ (see <i>astronaut terminology below</i>).		
	Let's go ahead and establish communication with Visitor Center.	
Copy that. Visitor Center this is (<u>call sign</u>). Do you read me?		
		We're reading you _____ by _____. (see <i>astronaut terminology below</i>)
Copy that. You are coming in _____ by _____		
	Visitor Center this is the Candor Chasma Base Station. Do you read me?	
		We're reading you _____ by _____.
	Copy that. You are coming in _____ by _____. (trouble shoot audio as needed) We have a round robin of communication established.	
I am preparing for final suit seal check.		
	Roger that. We are showing green lights across the board for your suit seals. We will start dropping chamber pressure to Mars standard, 6.71 millibars in 3-2-1.	
Copy that.		
	O ₂ and CO ₂ levels are in range and holding	

Copy that. O ₂ and CO ₂ levels are in range and steady. I'm reading chamber pressure steady at 6.71 millibars.		
	Roger that. Ready to synchronize Mission Clock on your mark.	
Starting Mission Clock in 3-2-1		
	Mission Clocks are synchronized. You are go for ESA. Repeat, go for ESA.	
Copy that. Entering access code for outer hatch _____ (example alpha, charlie, six, two, gamma, five).		
	Access code has been accepted.	
Stepping out onto porch. Outer hatch is sealed. _____ is independent.		
	We've got you on Eagle Eye. I'll keep an eye on you while Visitor Center keeps you company. Have a good ESA and be careful out there.	
Roger that.		

Greeting Visitor Center

Astronaut	Base Station	Visitor Center
It's still a little dark out here. I'm going to engage the work lights in 3-2-1.		
	Copy that. Work lights engaged.	
Hello Visitor Center. It looks like you have a good crowd there. My name is (rank) (last name) but you		

are welcome to call me <u>(call sign)</u> . I'm going to be doing some work here on the surface of Mars, but I would love to hear questions from you or just say hello. My friend <u>(name of AOS Assist)</u> has a microphone so that I can hear you. I'm going to grab some equipment but I'm ready to answer any questions.		
		As <u>(call sign)</u> said, I've got a microphone here. So if you have a question or want to say hello, please raise your hand and I'll bring the microphone to you.
<i>(begin work and answering questions)</i>		

Re-Entry to Hab Lab at End of Show

Astronaut	Base Station	Visitor Center
	<u>(call sign)</u> your ESA is at _____ minutes. Please finish up and return to the Hab Lab shortly. <i>(give the first ESA warning at 20min. Then again at 25 if necessary)</i>	
Copy that base station. That was base station letting me know that my oxygen is getting low. As I finish up here, I can take one more question and then give some astronaut high fives.		
<i>(Clean up equipment if not already done and put TTC in Cargo Bay while answering final question)</i>		
<i>(astronaut high fives)</i>		

Thank you all for visiting with me. I hope you have a safe trip back to Earth.		
		Thank you <u>(call sign)</u> I hope you have a good rest of your Sol.
	Visitor Center, thanks so much for keeping our astronaut company while they were doing some chores for us.	
		Thank you for joining us today and keeping our astronaut company. Have a great rest of your visit to the Mars Visitor Center.
Opening cargo bay.		
	Copy that. Slot two is prepped and ready for the TTC.	
Copy. TTC is locked in slot two.		
<i>(close cargo bay)</i> Cargo bay is sealed. Ascending the stairs.		
	Roger that. You are go for re-entry into Airlock Two. All personnel stand by for re-entry.	
Copy. Entering access code for outer hatch _____ (example alpha, charlie, six, two, gamma, five).		
	Access code has been accepted.	
Stepping into Airlock One.		
Outer hatch is sealed.		
	Copy that. Outer hatch is sealed. Re-pressurization beginning in 3-2-1.	
	We have reached Hab – Lab pressure.	
Roger that. Stepping into to decontamination chamber.		

Preparing for decontamination process		
	Roger that. Switching over to private channel.	
		<i>(return microphone to 2003 room)</i>
Turn off coms	Turn off coms	

Astronaut Terminology

AOS	Astronaut on the Surface	Short-hand name for the astronaut show.
AOS Assist	Astronaut on the Surface Assistant	Volunteer or Staff who are in the Mars Visitor Center acting as the facilitator.
Base Station	Candor Chasma Base Station	Contains HabLab, Visitor's Center, Nuclear Plant, etc. Can also refer to the person in Base Station who is watching the astronaut during their ESA.
Call Sign		Nickname that each of the astronauts are given by their fellow crew members. Make sure to ask the astronaut where they got their call sign; everyone has a unique story.
DCD	Data Collection Device	Computer used by astronauts to collect data and control experiments
EP Line	External Pressure Line	Compressed air line. Used to fill the balloon with compressed CO ₂ and to dust off the solar panels.
ESA	Exterior Surface Activity	Length of time astronaut is on the surface

Geophones		Geophones convert ground movement into voltage. These are used in seismic experiments to investigate subsurface geology. Even though these are not being used on Earth, we still call them “GEOphones”
Hab Lab	Habitation Laboratory	Where astronauts work and live
Mars Visitor’s Center		Where visitors are standing
Regolith		This is a geology term referring to unconsolidated rock material that forms the surface of the land that overlays the bedrock. It includes rock to debris of all kinds. This is the official term for “mars dirt.” Scientists do not use the word “dirt” and Mars does not have soil, because soil contains biological material.
TTC	Tool Transport Cart	Cart used to transport equipment on to the surface of Mars
_____ by _____		Most commonly heard as “5 by 5.” Both numbers are on a scale of 1 to 5. The first number describes signal strength (volume in our case) and the second number is readability (clarity).