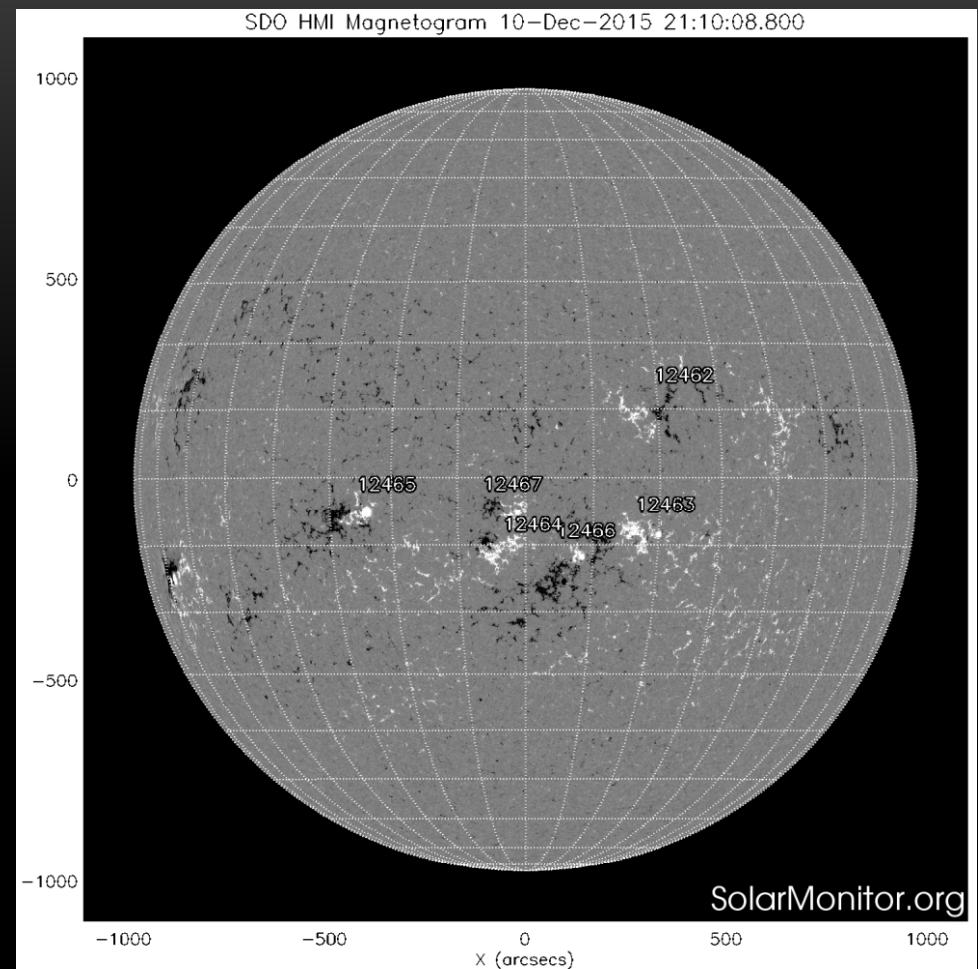


# 值周報告

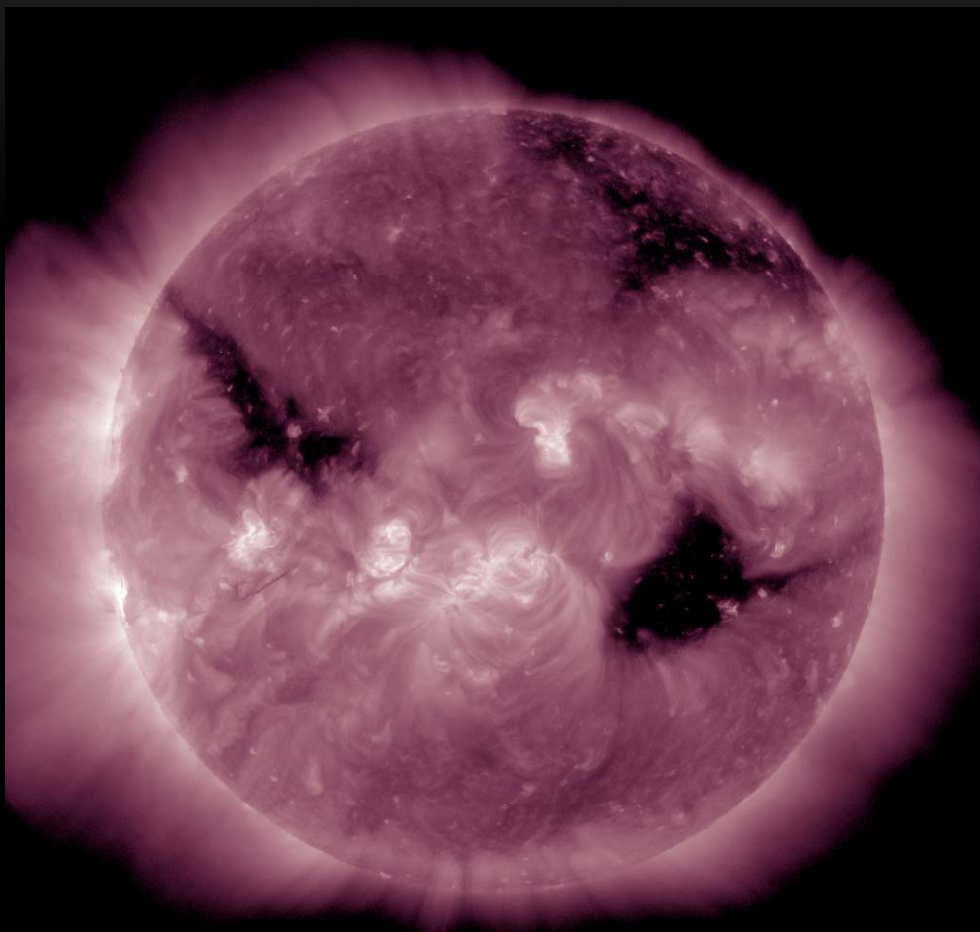
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102601533 姚德劭  
102601539 孫慈寬

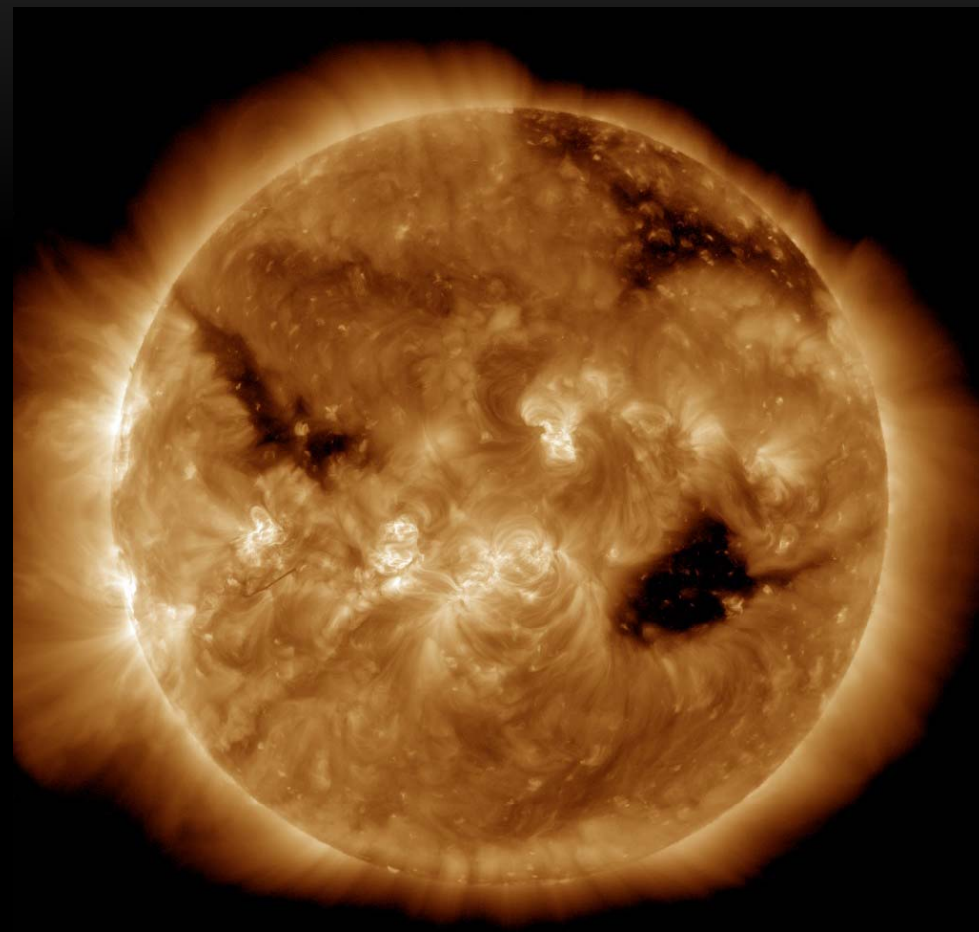
# 12/10



Today's/Yesterday's NOAA Active Regions						
NOAA Number	Latest Position	Hale Class	McIntosh Class	Sunspot Area [millionths]	Number of Spots	Recent Flares
12462	N10W23 (376", 174")	$\alpha/\alpha$	Axx/Hrx	0000/0010	02/01	-
12463	S09W20 (330", -147")	$\alpha/\alpha$	Hsx/Hax	0030/0050	04/03	-
12465	S06E22 (-364", -97")	$\beta/\beta$	Cso/Cao	0090/0080	06/06	-
12466	S13W08 (132", -214")	$\beta/\beta$	Dai/Cro	0050/0020	12/08	-
12467	S06E03 (-50", -96")	$\beta/-$	Cro/---	0020/---	03/--	-
12464	S12W00 (0", -198")	/	/	/	/	- / C1.2(12:07) C1.2(10:49) C1.5(03:17)



SDO/AIA 211 2015-12-10 02:09:48 UT



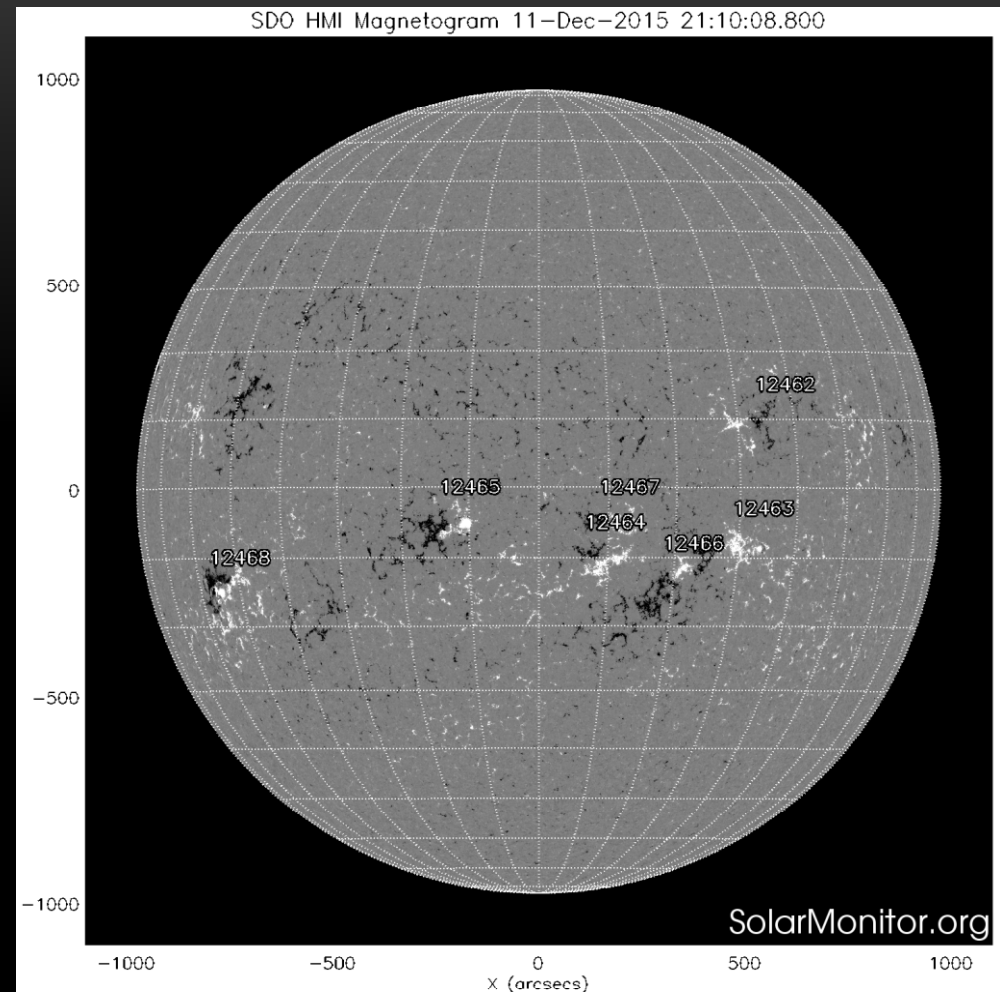
SDO/AIA 193 2015-12-10 02:11:54 UT

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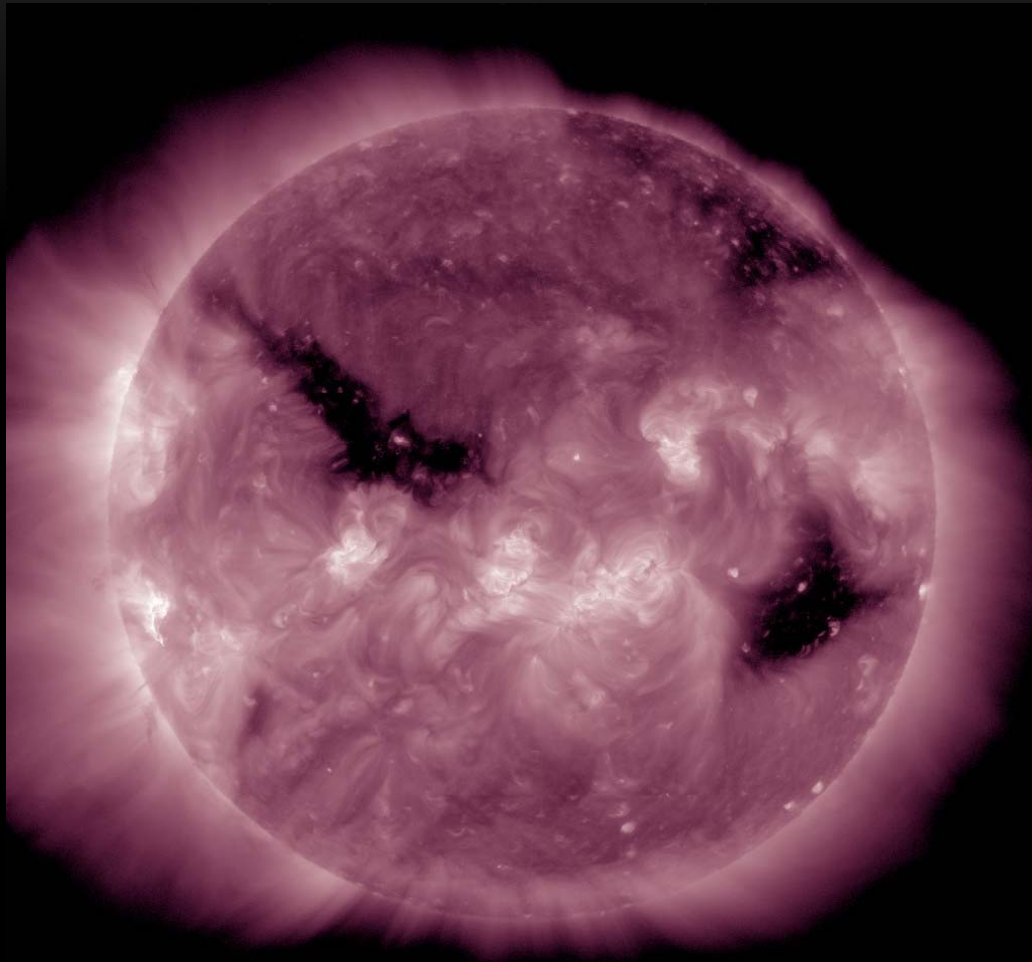
活躍的外層大氣

太陽的外層大氣

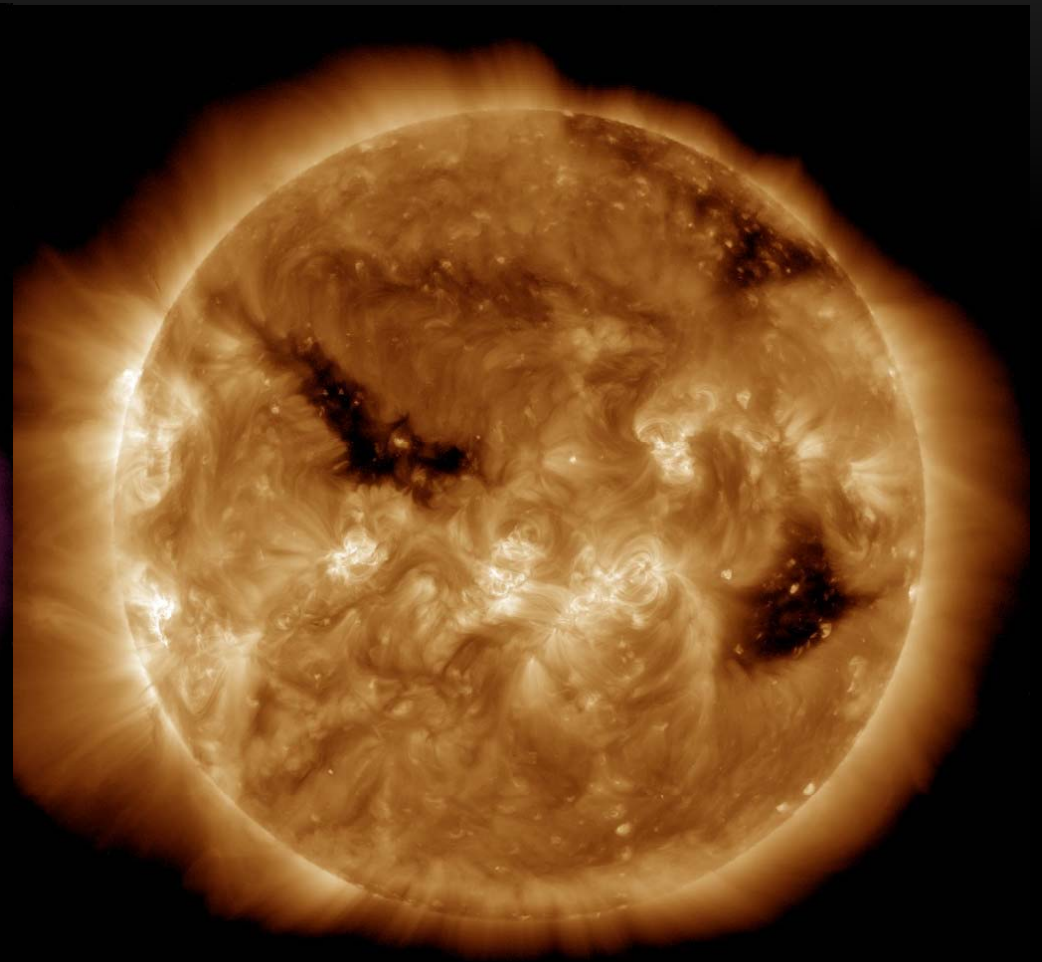
# 12/11



Today's/Yesterday's NOAA Active Regions						
NOAA Number	Latest Position	Hale Class	McIntosh Class	Sunspot Area [millionths]	Number of Spots	Recent Flares
12463	S08W33 (527", -129")	$\beta/\alpha$	Cro/Hsx	0020/0030	03/04	-
12464	S10W10 (167", -162")	$\beta/$	Bxo/	0010/	03/	-
12465	S05E11 (-185", -77")	$\beta/\beta$	Cso/Cso	0080/0090	05/06	C5.6(16:48) / -
12466	S13W22 (356", -213")	$\beta/\beta$	Dao/Dai	0030/0050	08/12	-
12467	S05W12 (202", -77")	$\beta/\beta$	Cro/Cro	0020/0020	04/03	-
12468	S15E52 (-743", -248")	$\beta/$	Dao/---	0120/---	03/--	C1.4(04:22) / -
12462	N10W37 (579", 175")	$/\alpha$	/Axx	/0000	/02	-



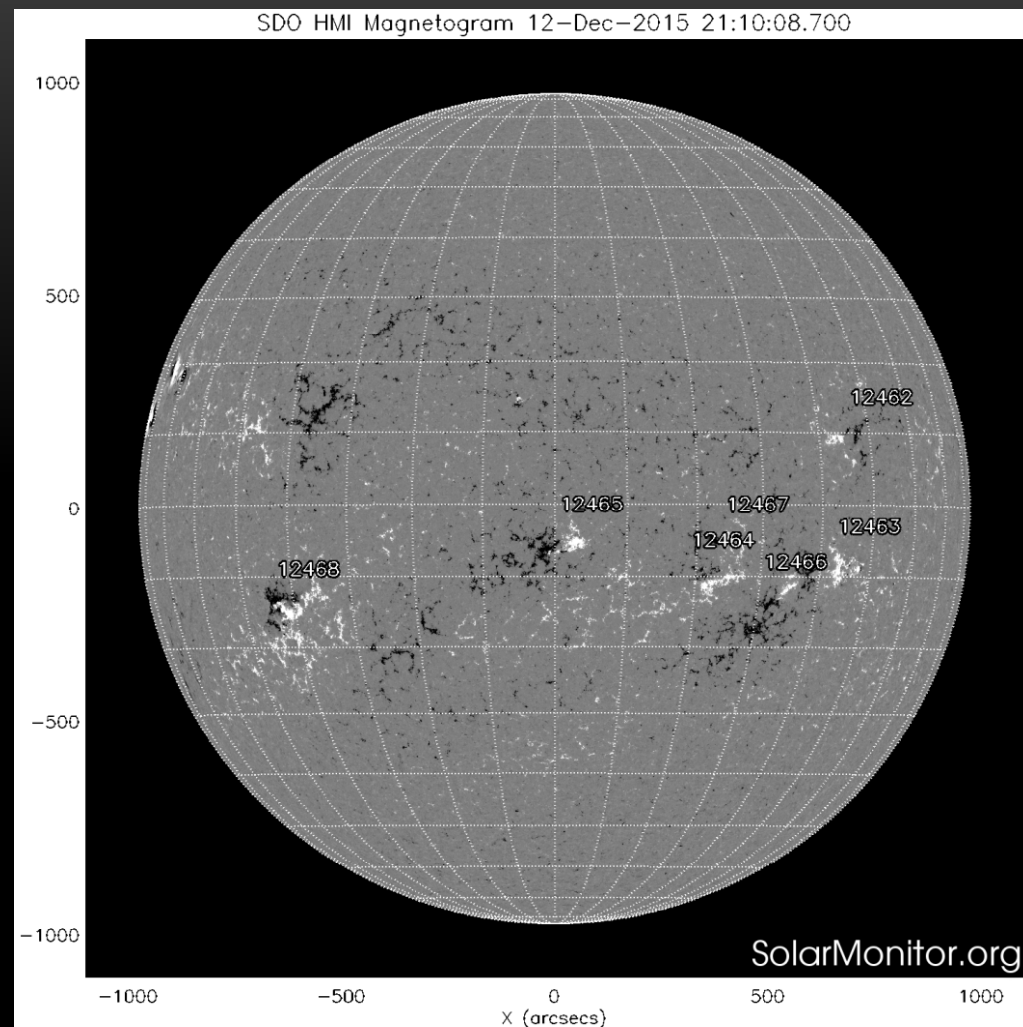
SDO/AIA 211 2015-12-11 02:10:36 UT



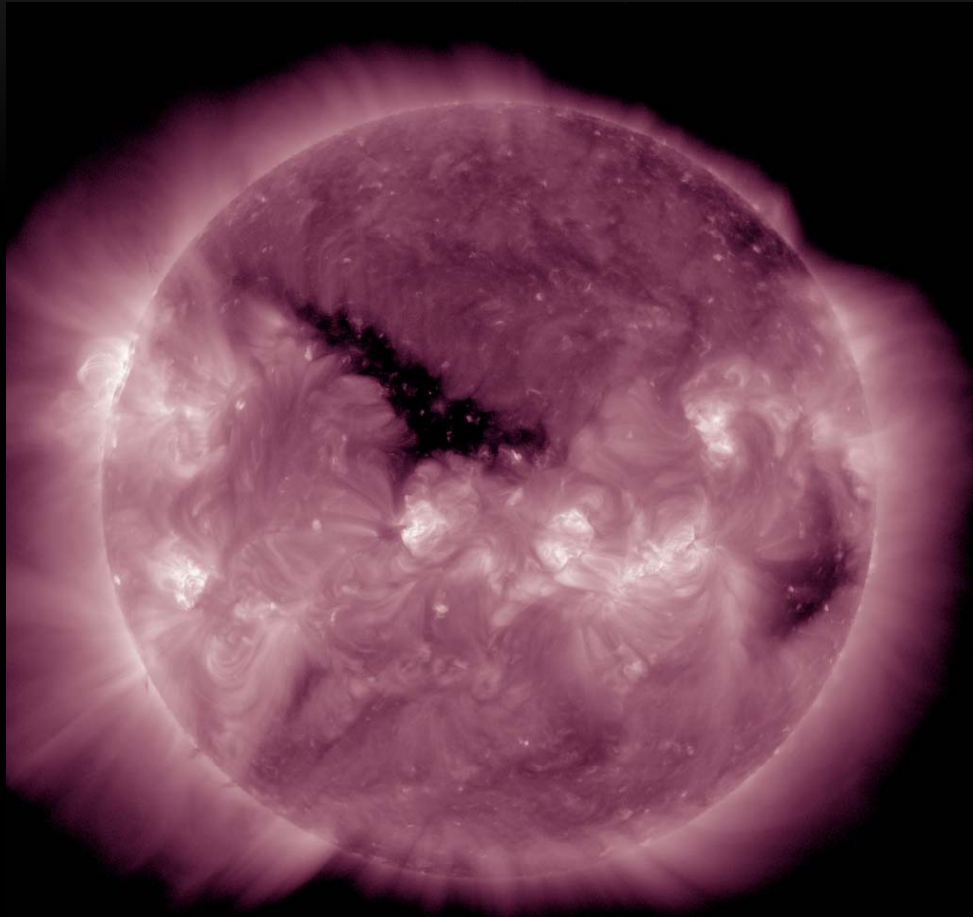
SDO/AIA 193 2015-12-11 02:10:42 UT



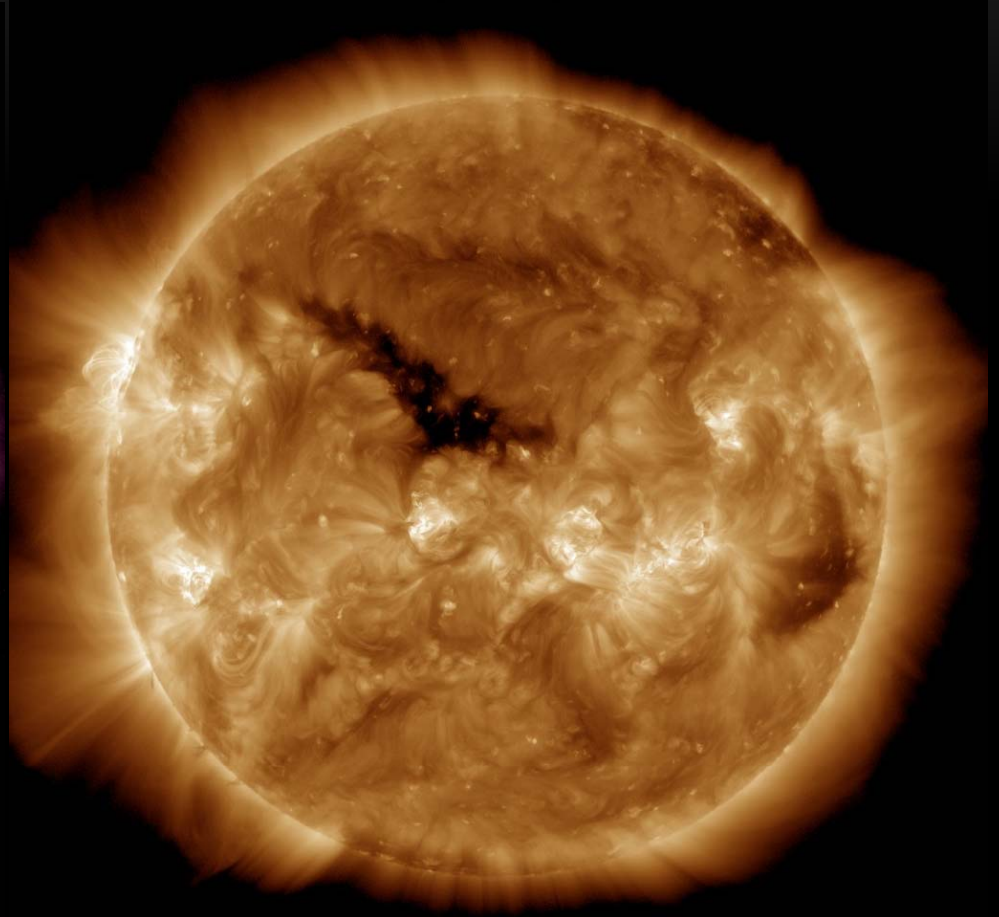
# 12/12



Today's/Yesterday's NOAA Active Regions						
NOAA Number	Latest Position	Hale Class	McIntosh Class	Sunspot Area [millionths]	Number of Spots	Recent Flares
12463	S08W48 (719", -129")	$\beta/\beta$	Cro/Cro	0020/0020	03/03	-
12464	S10W23 (376", -160")	$\beta/\beta$	Cro/Bxo	0020/0010	03/03	-
12465	S05W04 (68", -75")	$\alpha/\beta$	Hax/Cso	0050/0080	02/05	C1.7(17:26) / C5.6(16:48)
12466	S13W35 (546", -212")	$\beta/\beta$	Bxo/Dao	0010/0030	04/08	C1.1(19:32) C1.8(04:03) / -
12467	S05W28 (457", -76")	$\alpha/\beta$	Axx/Cro	0000/0020	01/04	-
12468	S14E39 (-596", -229")	$\beta/\beta$	Dao/Dao	0070/0120	04/03	C2.1(11:39) / -
12462	N10W51 (747", 175")	/	/	/	/	C1.3(09:18) / -



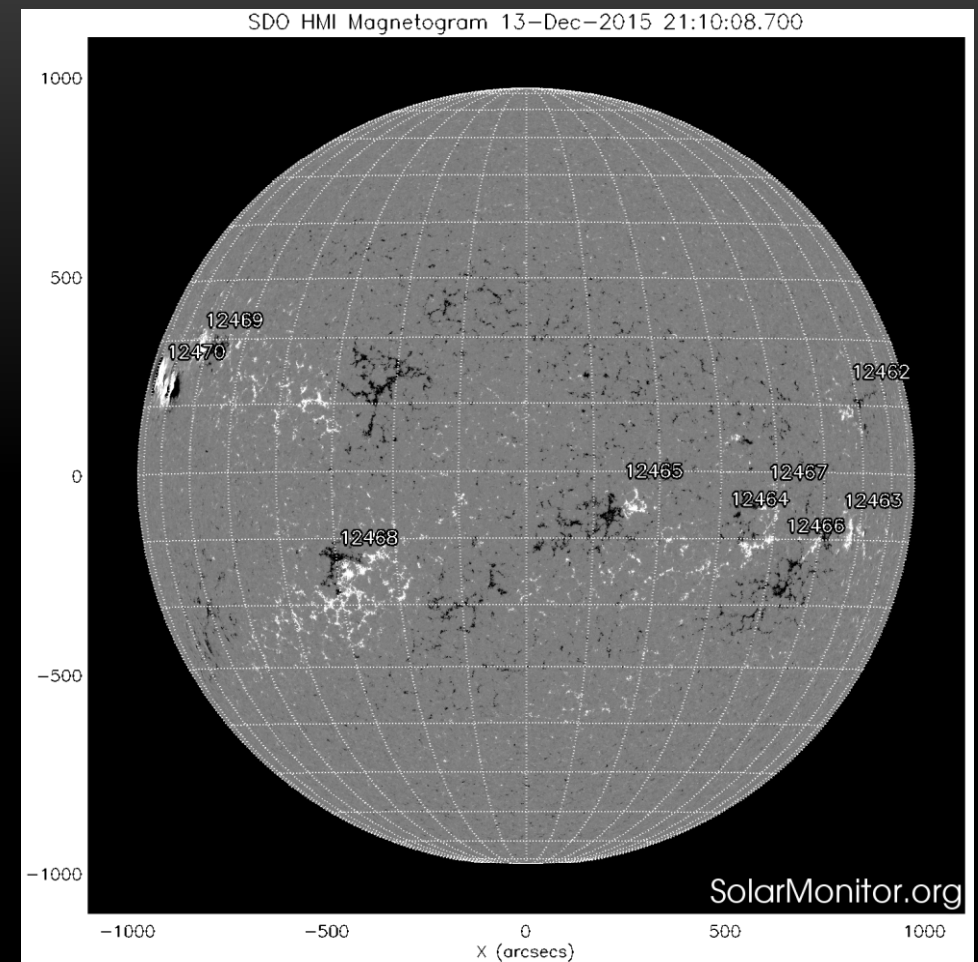
SDO/AIA 211 2015-12-12 02:10:00 UT



SDO/AIA 193 2015-12-12 02:11:06 UT

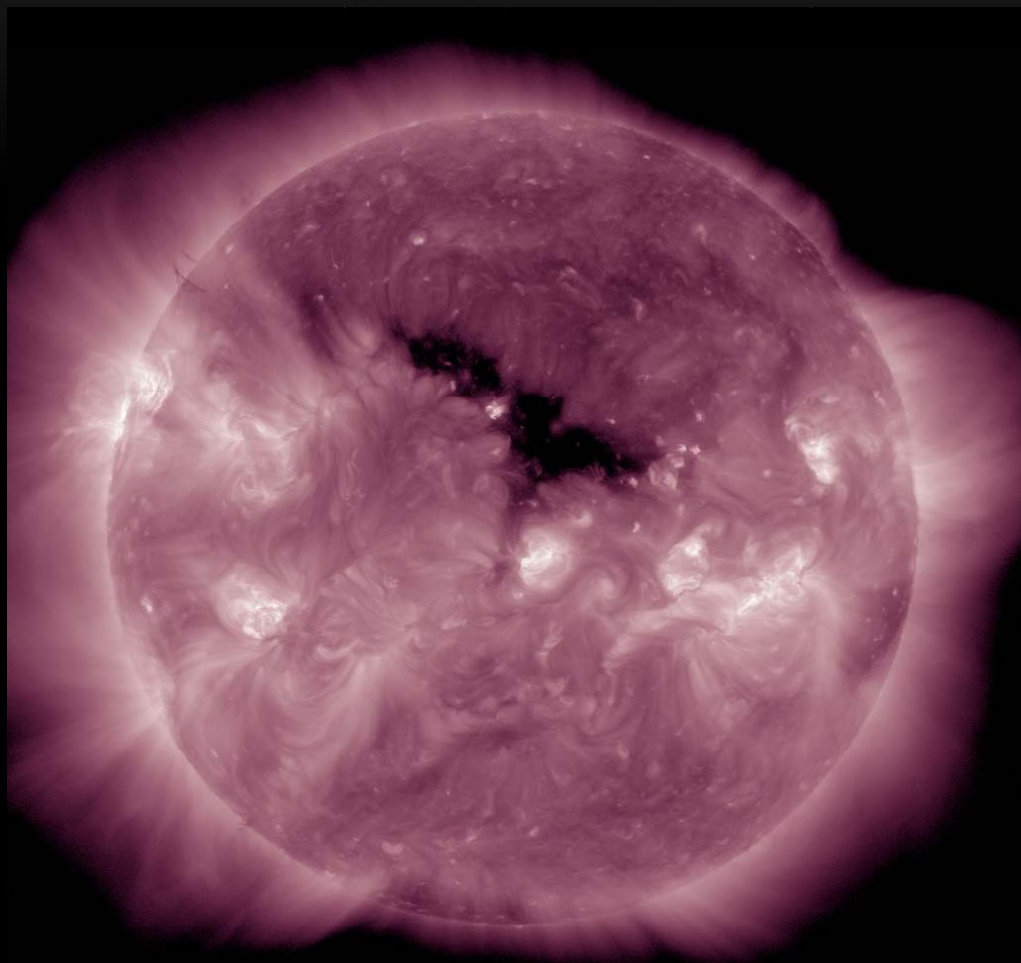


# 12/13

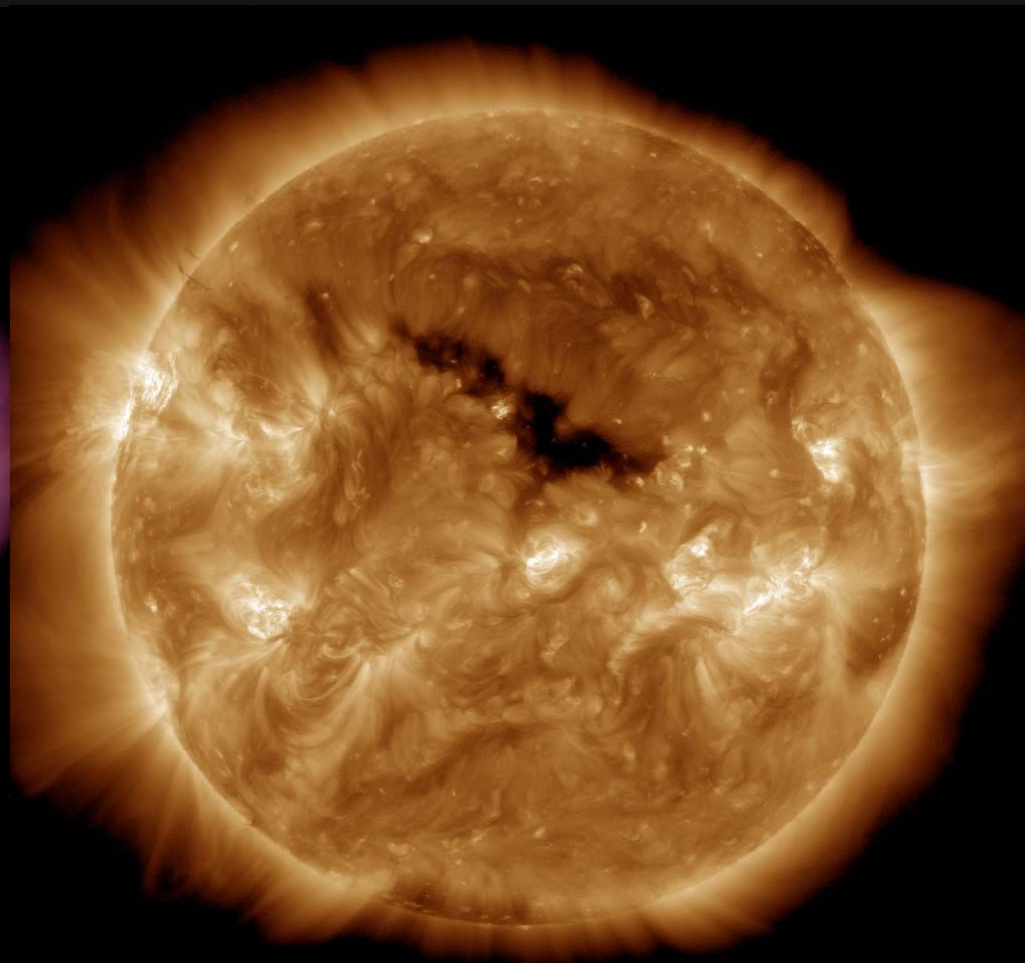


Today's/Yesterday's NOAA Active Regions						
NOAA Number	Latest Position	Hale Class	McIntosh Class	Sunspot Area [millionths]	Number of Spots	Recent Flares
12463	S09W62 (851", -147")	$\beta/\beta$	Cro/Cro	0020/0020	03/03	-
12464	S09W36 (567", -143")	$\beta/\beta$	Bxo/Cro	0010/0020	03/03	-
12465	S05W18 (301", -73")	$\alpha/\alpha$	Hax/Hax	0030/0050	03/02	- / C1.7(17:26)
12466	S13W48 (707", -211")	$\alpha/\beta$	Axx/Bxo	0010/0010	01/04	- / C1.1(19:32) C1.8(04:03)
12468	S15E26 (-414", -242")	$\beta/\beta$	Dao/Dao	0040/0070	05/04	C5.3(08:25) / C2.1(11:39)
12469	N18E54 (-751", 308")	$\beta/-$	Dso/---	0100/---	03/--	-
12470	N13E63 (-847", 224")	$\alpha/-$	Hsx/---	0080/---	01/--	-
12462	N10W65 (871", 174")	/	/	/	/	- / C1.3(09:18)
12467	S05W43 (664", -76")	/ $\alpha$	/Axx	/0000	/01	-





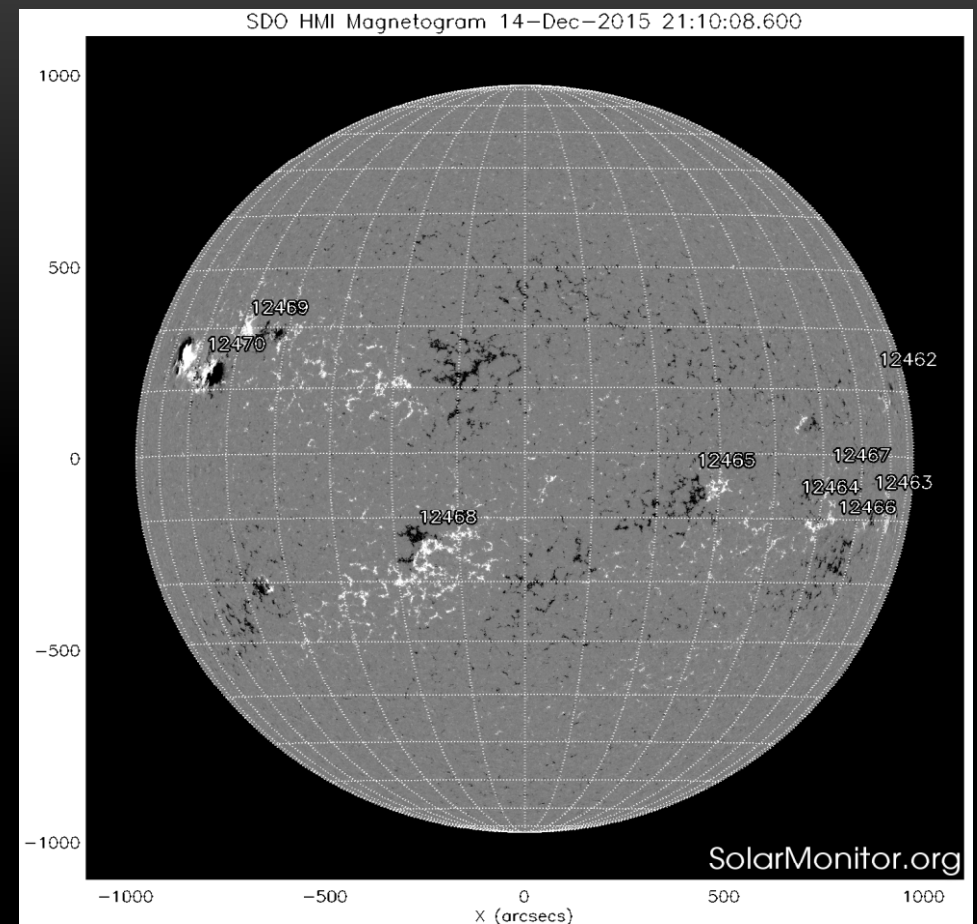
SDO/AIA 211 2015-12-13 02:09:36 UT



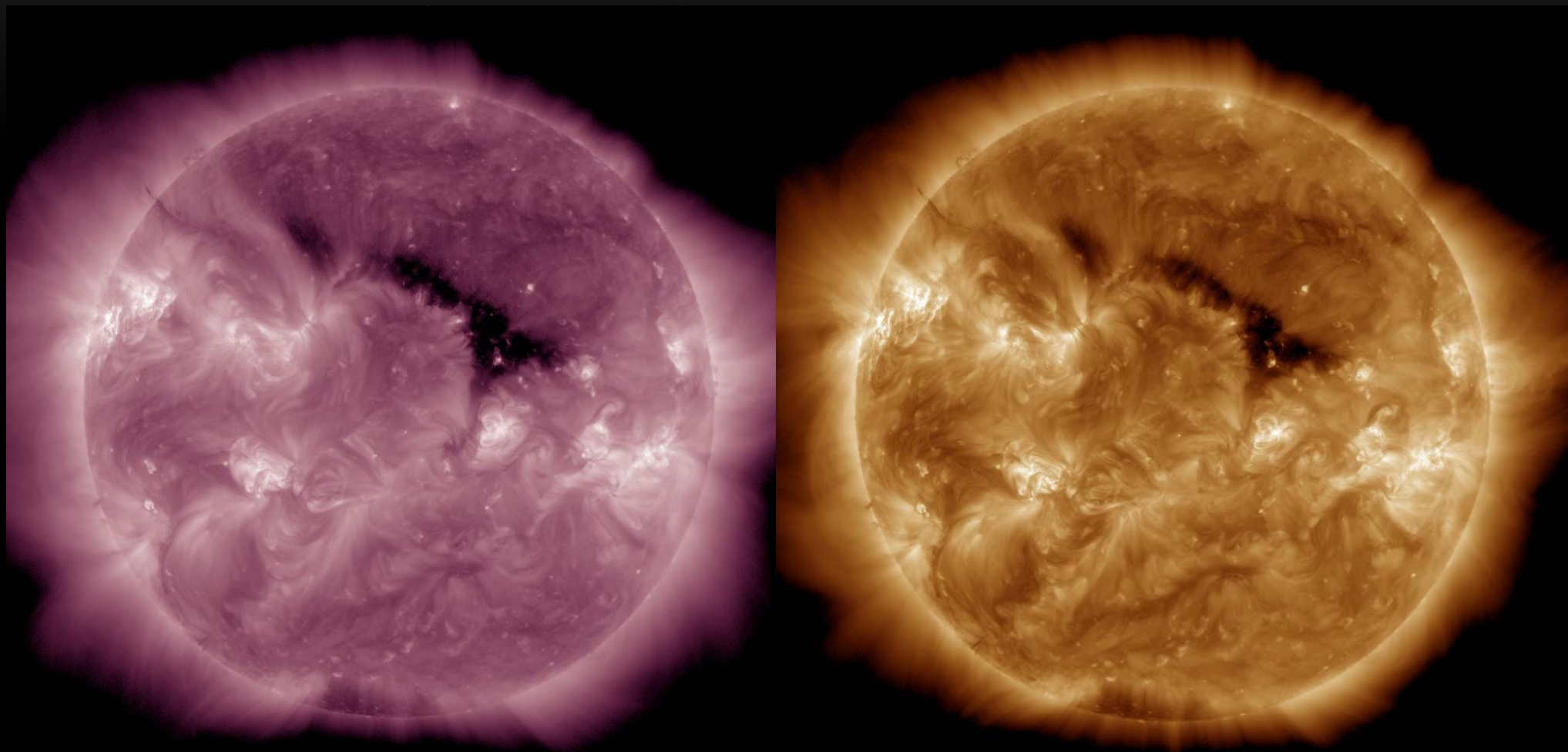
SDO/AIA 193 2015-12-13 02:11:06 UT



# 12/14



Today's/Yesterday's NOAA Active Regions						
NOAA Number	Latest Position	Hale Class	McIntosh Class	Sunspot Area [millionths]	Number of Spots	Recent Flares
12463	S09W75 (930", -148")	$\beta/\beta$	Cro/Cro	0010/0020	02/03	-
12465	S06W30 (486", -90")	$\beta/\alpha$	Cao/Hax	0020/0030	04/03	-
12468	S15E13 (-212", -239")	$\beta/\beta$	Cao/Dao	0040/0040	04/05	- / C5.3(08:25)
12469	N18E43 (-633", 311")	$\beta/\beta$	Dso/Dso	0090/0100	08/03	C1.0(00:06) / -
12470	N12E51 (-742", 211")	$\beta/\alpha$	Dkc/Hsx	0270/0080	06/01	-
12462	N10W79 (942", 171")	/	/	/	/	-
12464	S10W51 (747", -160")	/ $\beta$	/Bxo	/0010	/03	-
12466	S13W62 (839", -213")	/ $\alpha$	/Axx	/0010	/01	-
12467	S05W58 (825", -77")	/	/	/	/	-

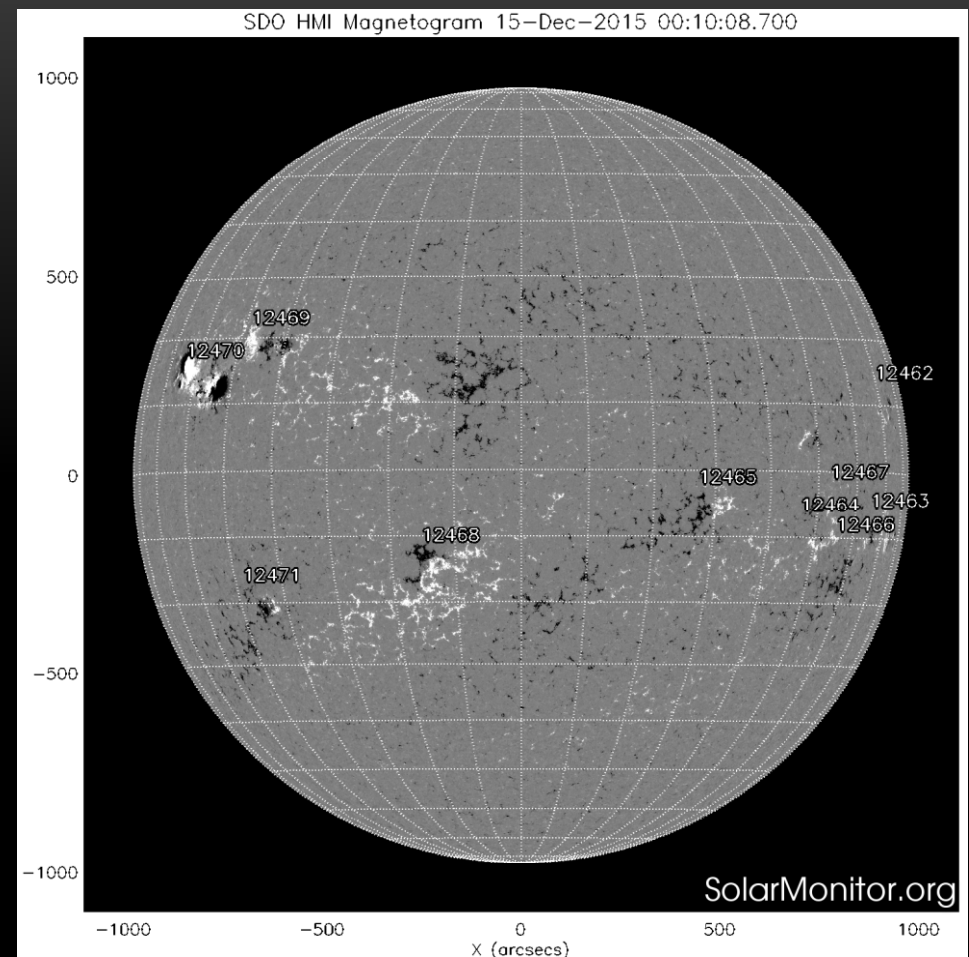


SDO/AIA 211 2015-12-14 02:10:00 UT

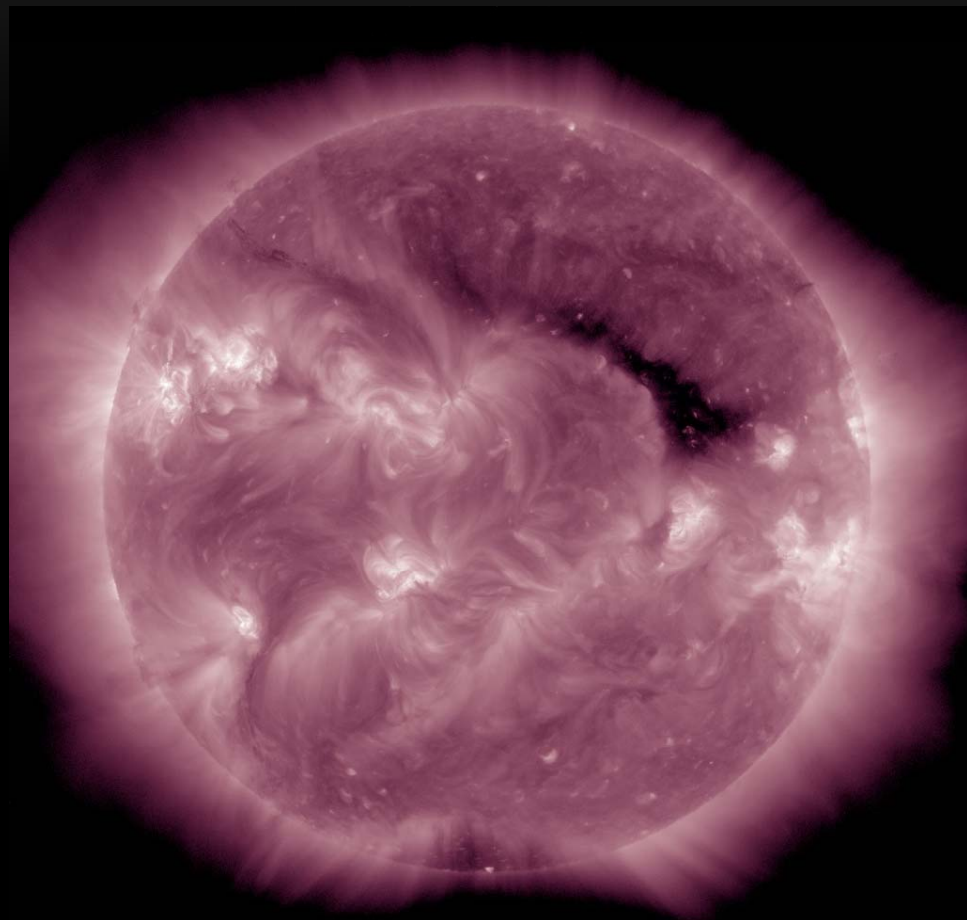
SDO/AIA 193 2015-12-14 02:11:18 UT



# 12/15



Today's/Yesterday's NOAA Active Regions						
NOAA Number	Latest Position	Hale Class	McIntosh Class	Sunspot Area [millionths]	Number of Spots	Recent Flares
12463	S09W76 (934", -149")	$\alpha/\beta$	Axx/Cro	0010/0010	01/02	-
12465	S06W31 (501", -89")	$\alpha/\beta$	Axx/Cao	0010/0020	02/04	-
12468	S15E12 (-196", -239")	$\beta/\beta$	Cao/Cao	0030/0040	03/04	-
12469	N18E42 (-622", 312")	$\beta/\beta$	Cao/Dso	0050/0090	02/08	- / C1.0(00:06)
12470	N13E56 (-788", 227")	$\beta/\beta$	Dki/Dkc	0360/0270	10/06	-
12471	S21E45 (-645", -340")	$\beta/-$	Cro/---	0020/---	03/--	-



SDO/AIA 211 2015-12-15 02:09:48 UT



SDO/AIA 193 2015-12-15 02:10:30 UT



# 參考資料

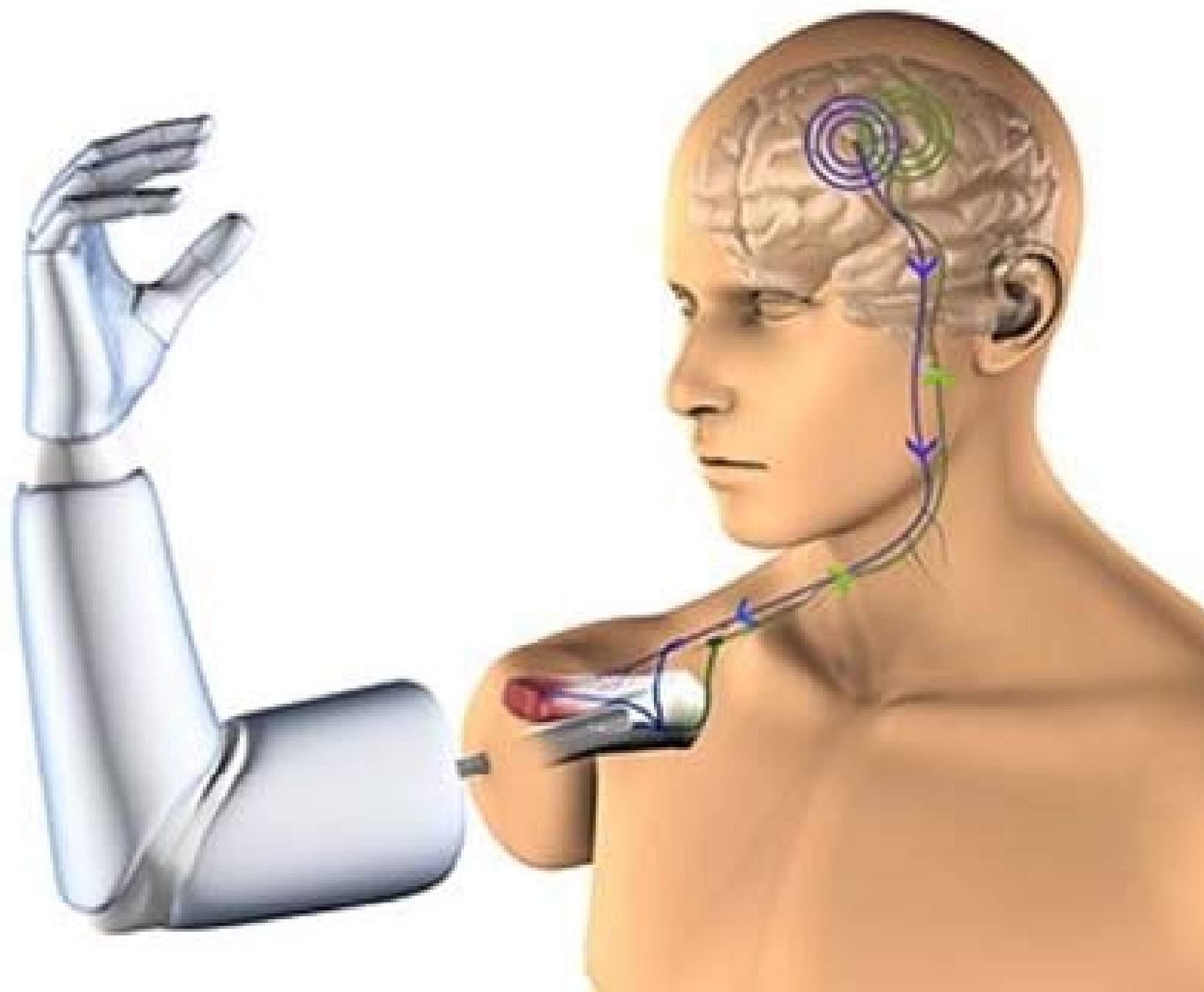
- <http://sdo.gsfc.nasa.gov/data/>
  - [http://solarmonitor.org/full\\_disk.php?date=20151215&type=shmi\\_maglc&region](http://solarmonitor.org/full_disk.php?date=20151215&type=shmi_maglc&region)
-

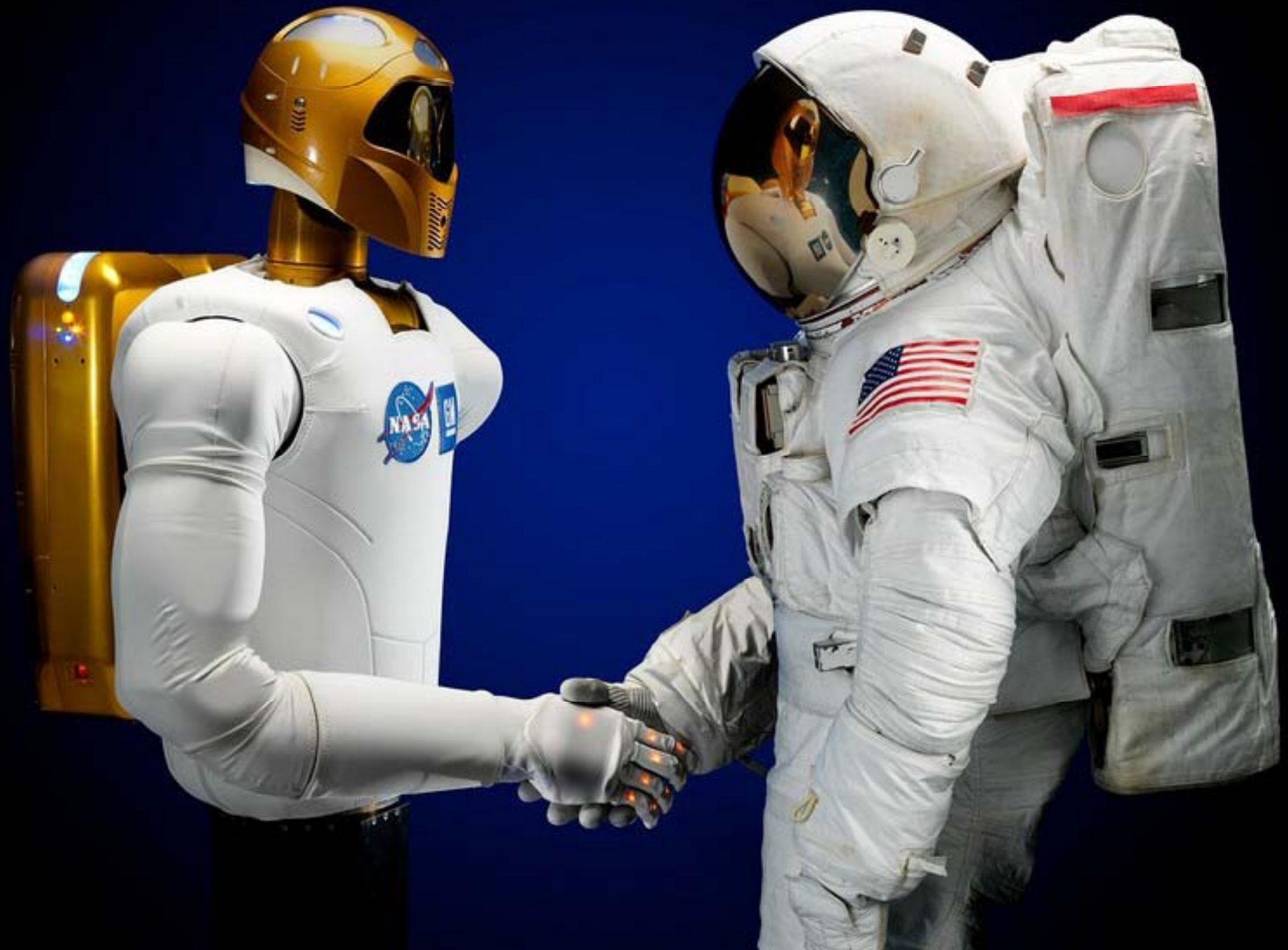
日常生活常常看到而且是NASA發明的東西











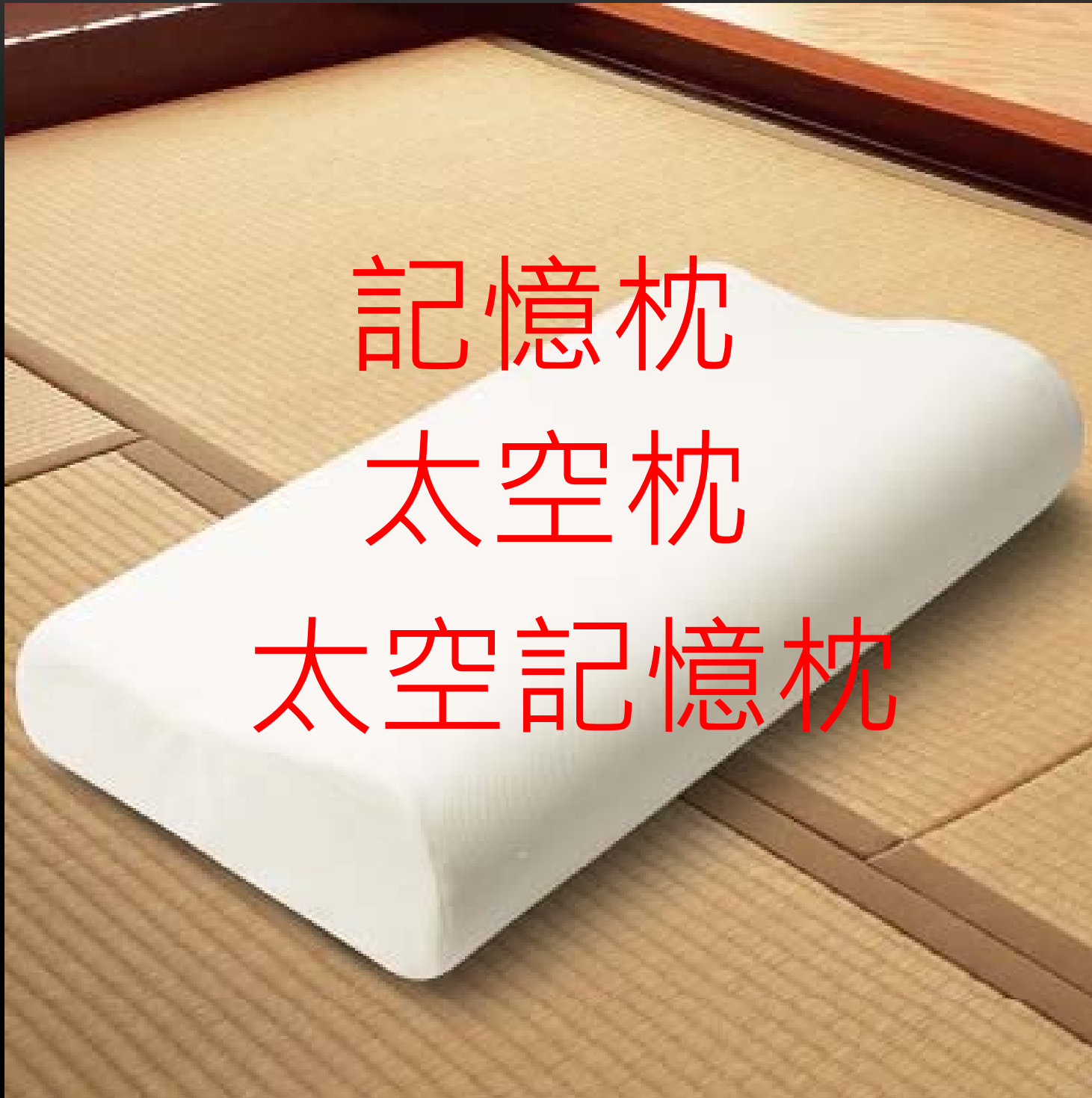


# 記憶枕





記憶枕  
太空枕



記憶枕

太空枕

太空記憶枕



Yr-010700







# 太空新聞

- 12/15俄羅斯聯盟號太空船升空，在哈薩克拜科努爾航空中心發射升空。太空船搭載三名太空人到國際太空站(ISS)，他們分別來自俄羅斯、美國和“英國”。
-

# 參考資料

- <http://www.businessweekly.com.tw/KBlogArticle.aspx?ID=12323&pnumber=2>
  - <http://news.tvb.com/world/566ffc166db28cb95a000006>
-