

# Udział toruńskiej stacji VLBI w sesjach EVN w latach 1996 – 2014

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Przedstawione tu diagramy obejmują 58 sesji na przestrzeni 19 lat, w których EVN (European VLBI Network, Europejska Sieć VLBI) zaplanowała 1324 eksperymenty z udziałem stacji Toruń (Tr) o sumarycznej długości 11897 godzin. Poniższa tabelka zawiera rozkład czasu obserwacji (T, godziny) i liczby eksperymentów (N) na poszczególne sesje.

Sesja	T	N	Sesja	T	N	Sesja	T	N	Sesja	T	N
Jun 1996	51.5	6	Sep 2000	206.7	16	Oct 2005	193.7	19	Oct 2010	156.5	22
Oct 1996	87.7	8	Nov 2000	151.5	14	Feb 2006	187.0	23	Feb 2011	193.0	23
Feb 1997	339.2	31	Feb 2001	167.7	17	Jun 2006	237.0	28	May 2011	213.2	32
May 1997	304.8	25	May 2001	166.5	18	Nov 2006	55.5	6	Oct 2011	236.0	34
Sep 1997	244.0	24	Nov 2001	200.0	17	Feb 2007	220.5	32	Feb 2012	93.5	16
Nov 1997	175.0	16	Feb 2002	332.8	23	May 2007	215.0	26	May 2012	165.5	22
Feb 1998	215.6	21	May 2002	131.0	12	Oct 2007	111.0	12	Oct 2012	178.5	29
May 1998	239.3	24	Nov 2002	158.5	15	Feb 2008	204.5	25	Feb 2013	211.2	35
Nov 1998	277.0	25	May 2003	278.0	27	Jun 2008	231.7	28	May 2013	230.0	41
Feb 1999	261.0	23	Oct 2003	183.0	16	Oct 2008	157.0	16	Oct 2013	179.0	29
May 1999	278.7	24	Feb 2004	94.5	12	Feb 2009	202.5	26	Feb 2014	221.5	36
Sep 1999	377.5	30	May 2004	246.7	24	May 2009	244.0	30	May 2014	244.5	34
Nov 1999	330.0	28	Oct 2004	190.0	17	Oct 2009	252.0	26	Oct 2014	183.5	26
Feb 2000	192.1	17	Feb 2005	148.2	14	Mar 2010	253.3	32			
May 2000	156.5	15	Jun 2005	161.7	18	May 2010	275.7	37			

Dane do wykresów od września 1997 do końca 2013 r. zostały wyekstrahowane z plików typu `evn_final_*.ps` (od 2014 r. `evn_final_*.txt`) dostępnych na stronie

`ftp.jive.nl/outgoing/jive/block_sched.`

Wcześniejsze sesje odtworzono z rozmaitych plików (`*log.tr`, `*ant.tr`, `*.cvt`, `*.drg`, ...) pobranych z podkatalogów na bolońskim serwerze `vlbeer` (192.167.165.16) w miejscu

`ftp/vlb_arc/ftp/vlbi_arch/` albo ze strony

`www.ira.inaf.it/vlb_arc/vlb_archive/`.

Eksperymenty, w których stacja toruńska nie brała udziału, zostały pominięte. Ale nie ma tu też obserwacji Tr prowadzonych poza sesjami EVN, w tym licznych VSOP (satelitarna VLBI, od 1996 do 2003 r.), a w późniejszych latach (od 2007 r.) obserwacji EVN typu e-VLBI (bez zapisu na dyski, z bezpośrednią transmisją do JIVE w Holandii). Brakuje też całej sesji z lutego 2003 r., gdyż stacja toruńska w niej nie uczestniczyła (były wtedy obserwacje w paśmie K oraz dwa eksperymenty w paśmie C2, ale bez Tr).

Ostatnie osiem stron o charakterze uzupełnienia zawiera, obok obserwacji EVN (w tym pozasesyjne, głównie e-VLBI), też wszystkie eksperymenty w ramach misji RadioAstron zaplanowane dla stacji Tr w 2013 i 2014 r.

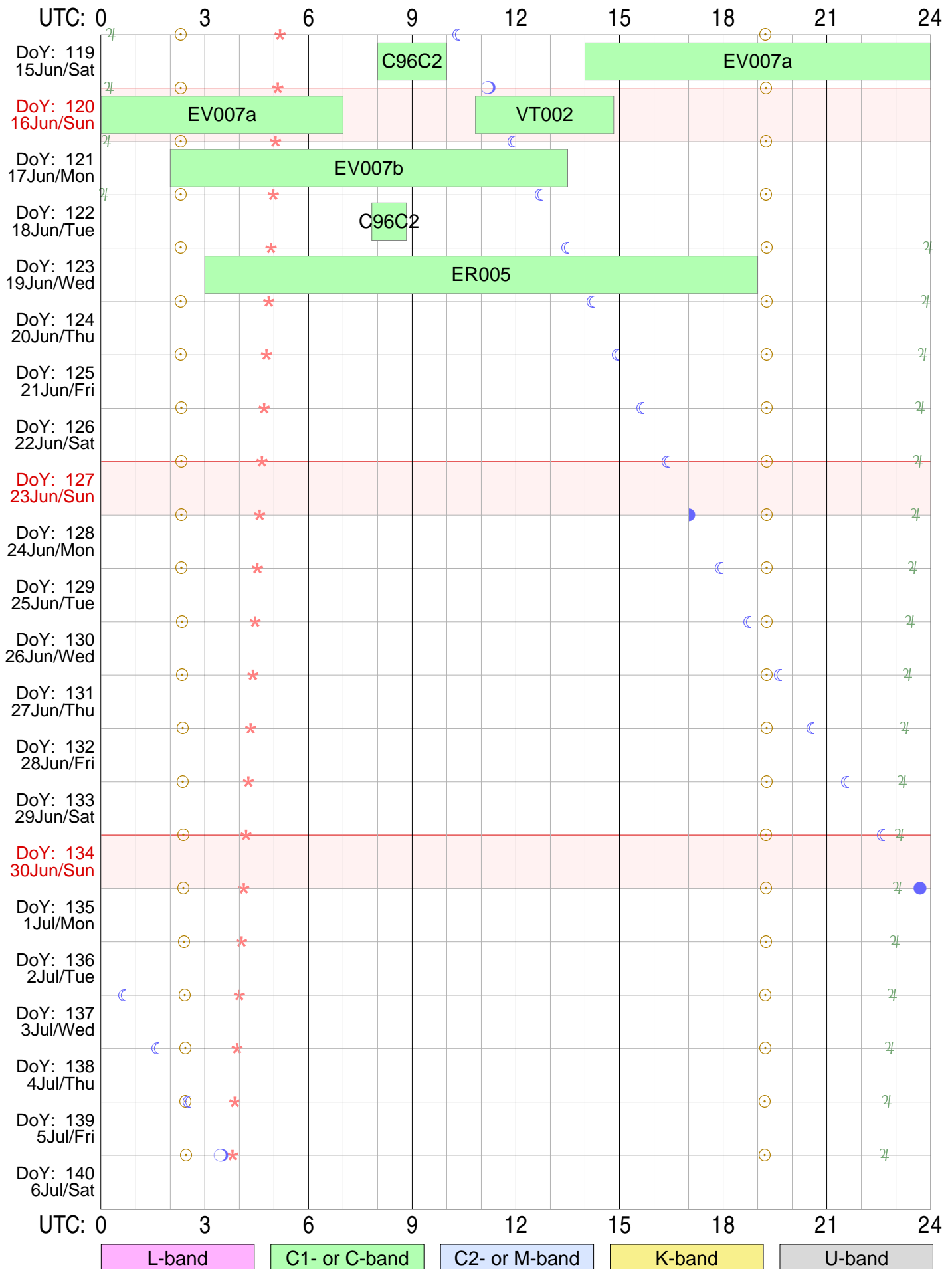
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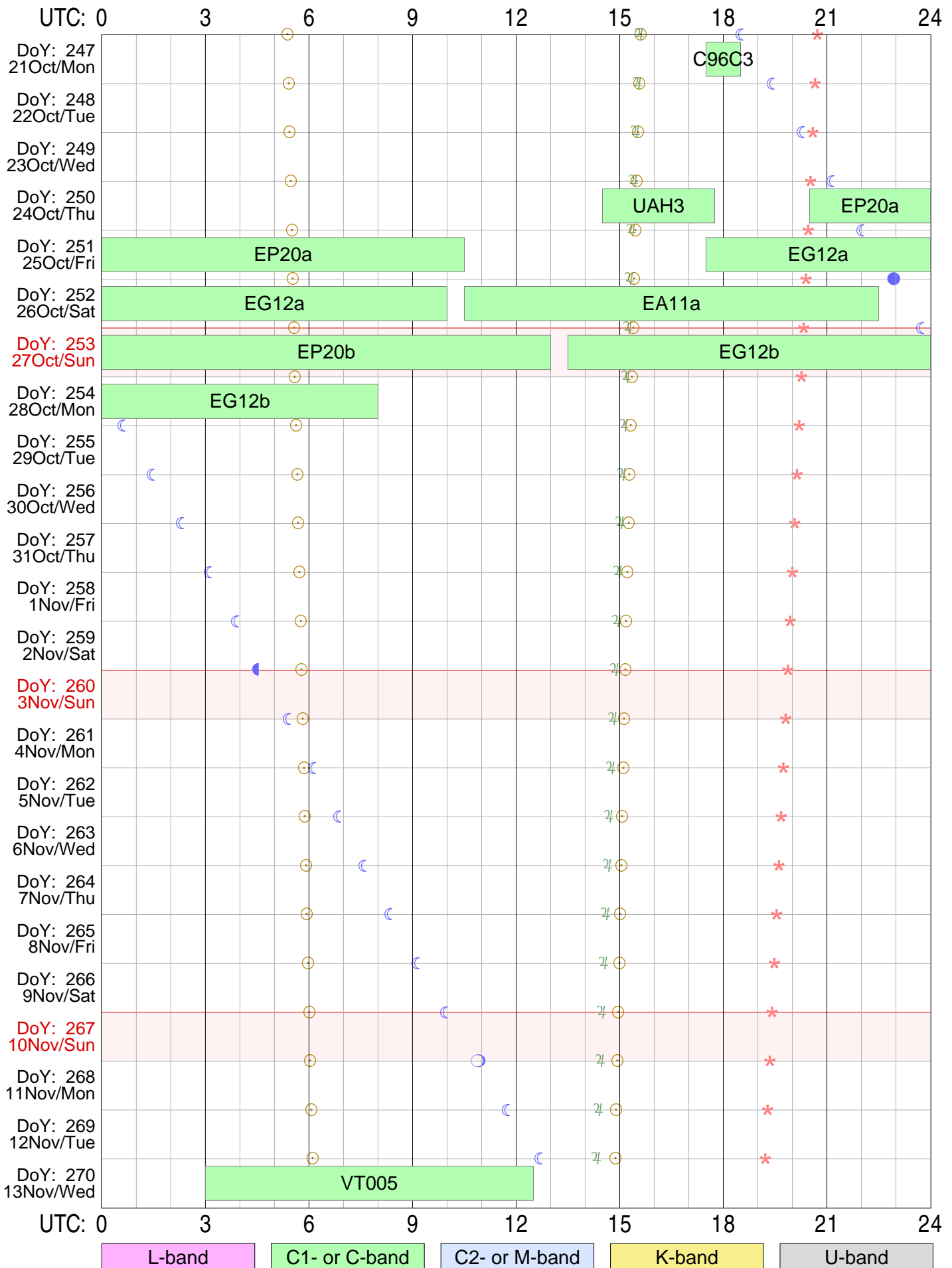
# EVN Session Jun 1996



Sky events: ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

*Total 51.5 hours in 6 experiments scheduled*

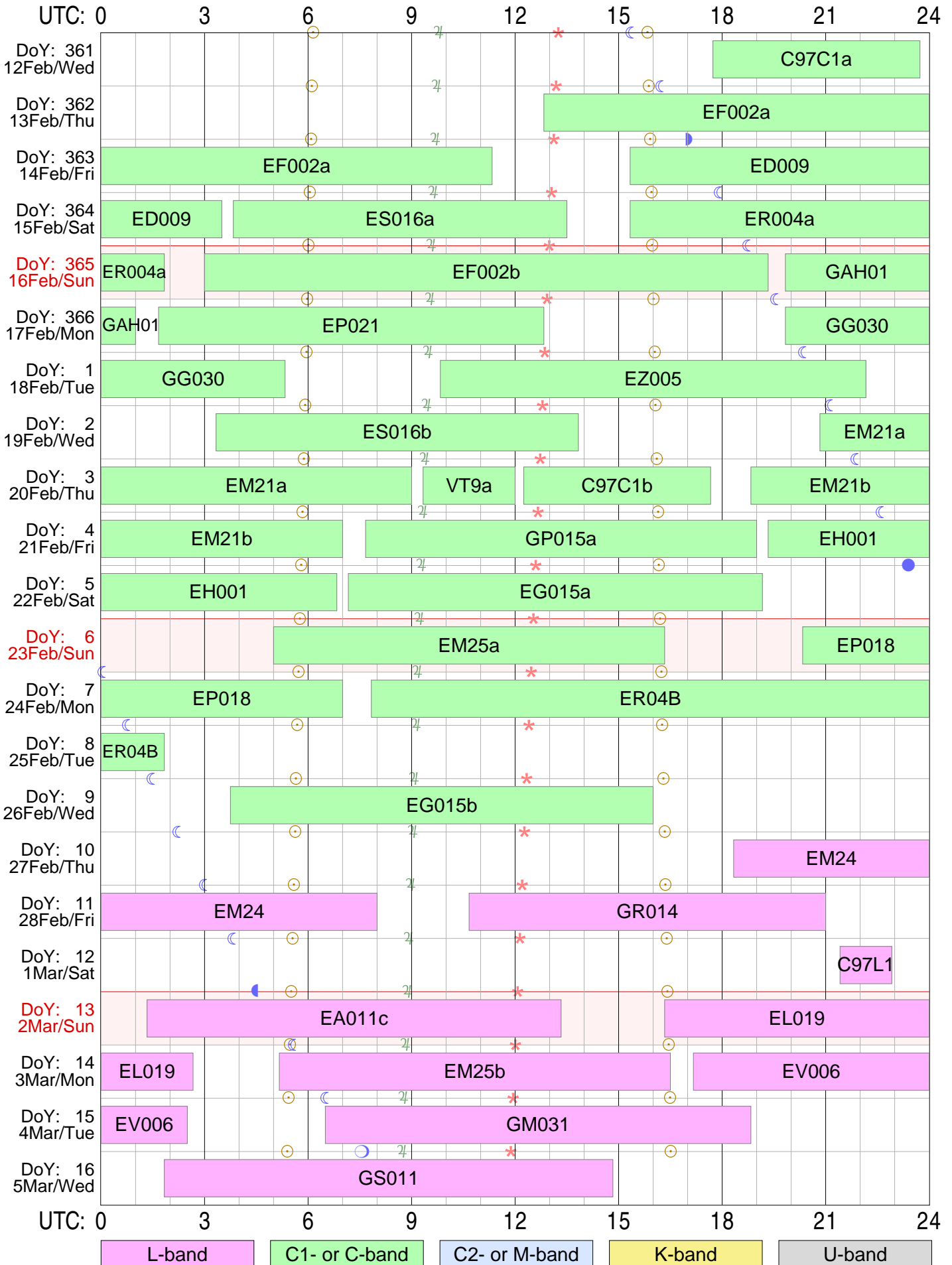
# EVN Session Oct/Nov 1996



Sky events:    ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

*Total 87.7 hours in 8 experiments scheduled*

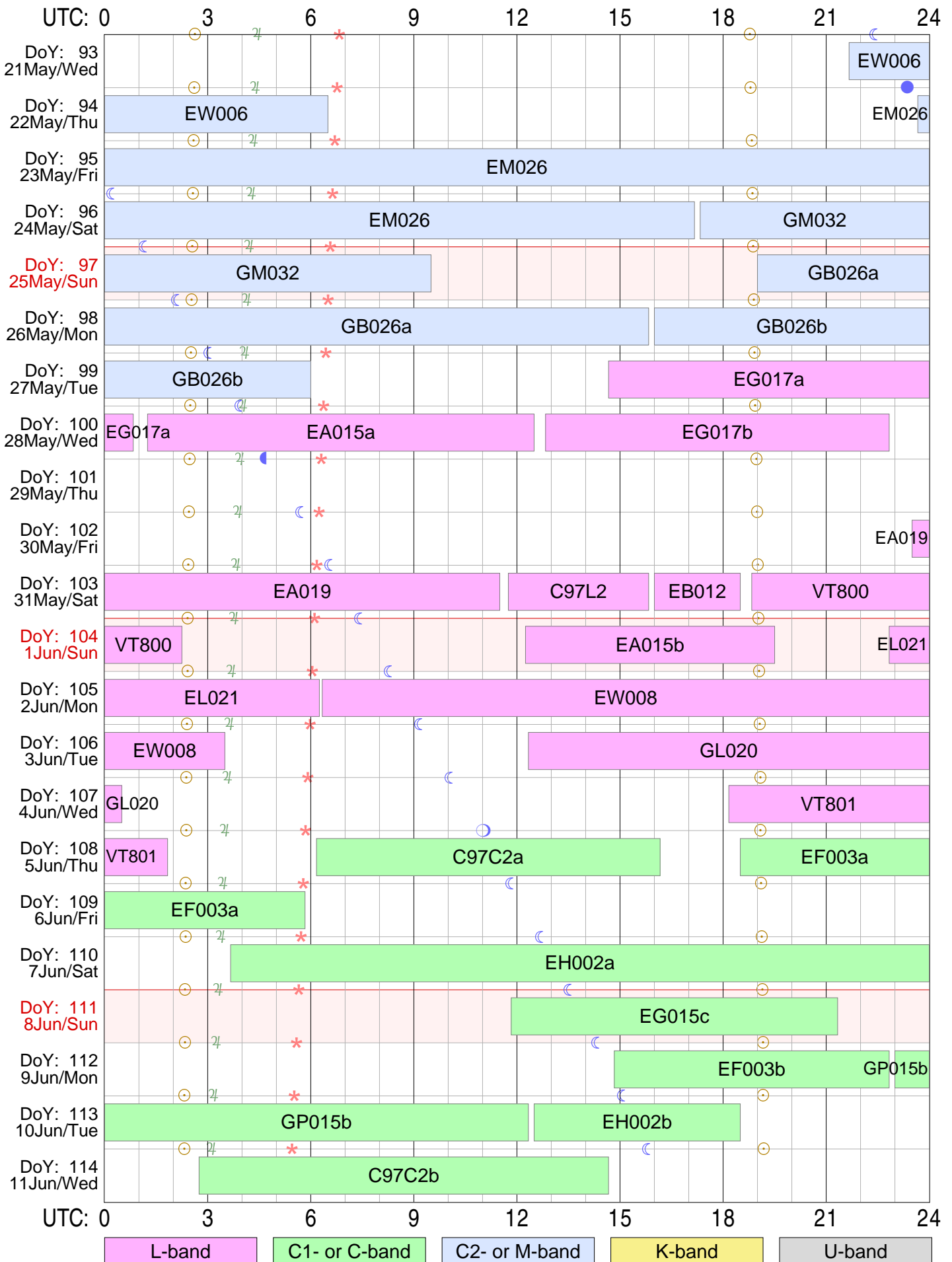
# EVN Session Feb/Mar 1997



Sky events: ○ Sunrise & sunset    ○●●☾ Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

Total 339.2 hours in 31 experiments scheduled

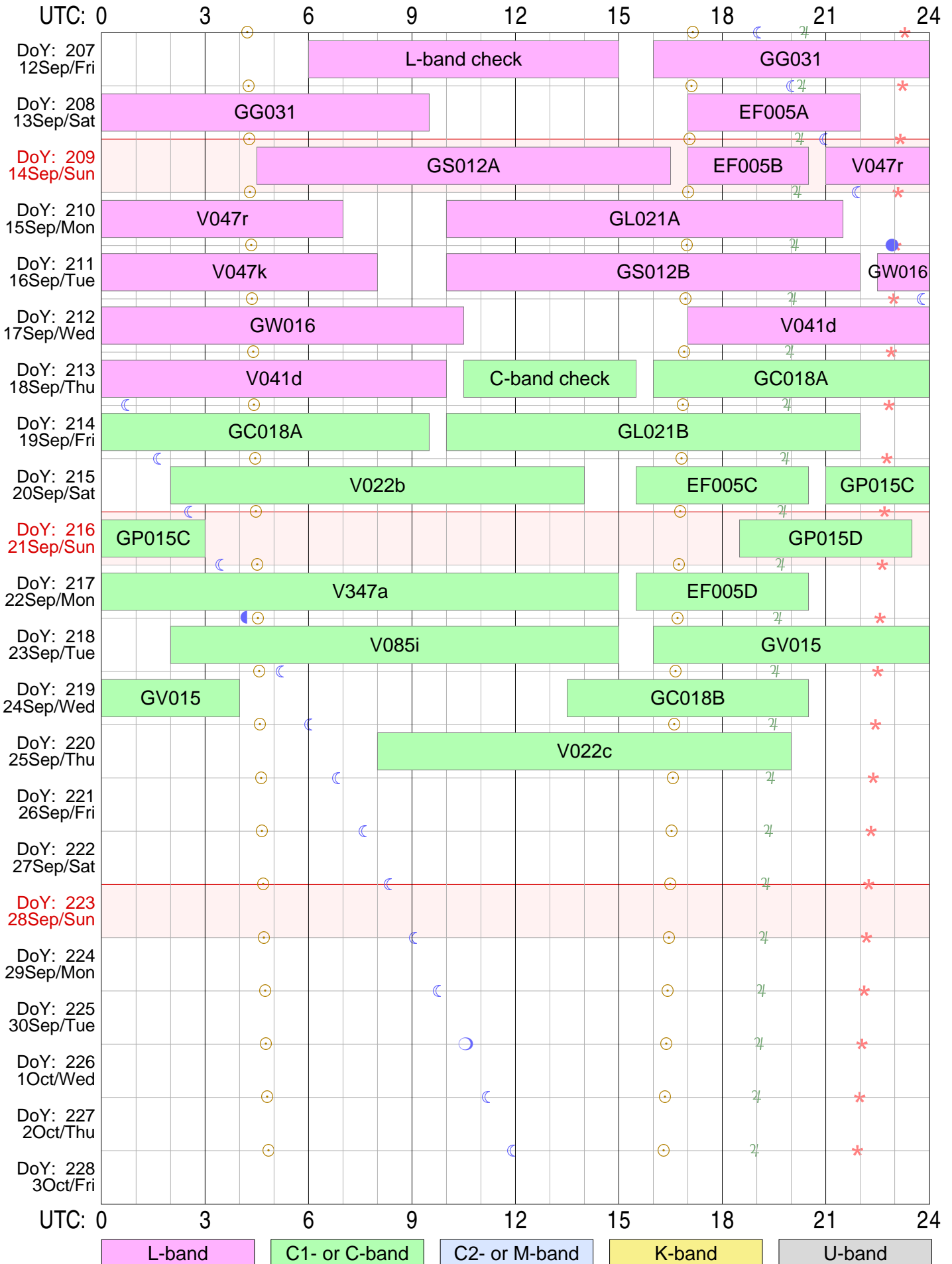
# EVN Session May/June 1997



Sky events: ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

Total 304.8 hours in 25 experiments scheduled

# EVN Session Sep 1997

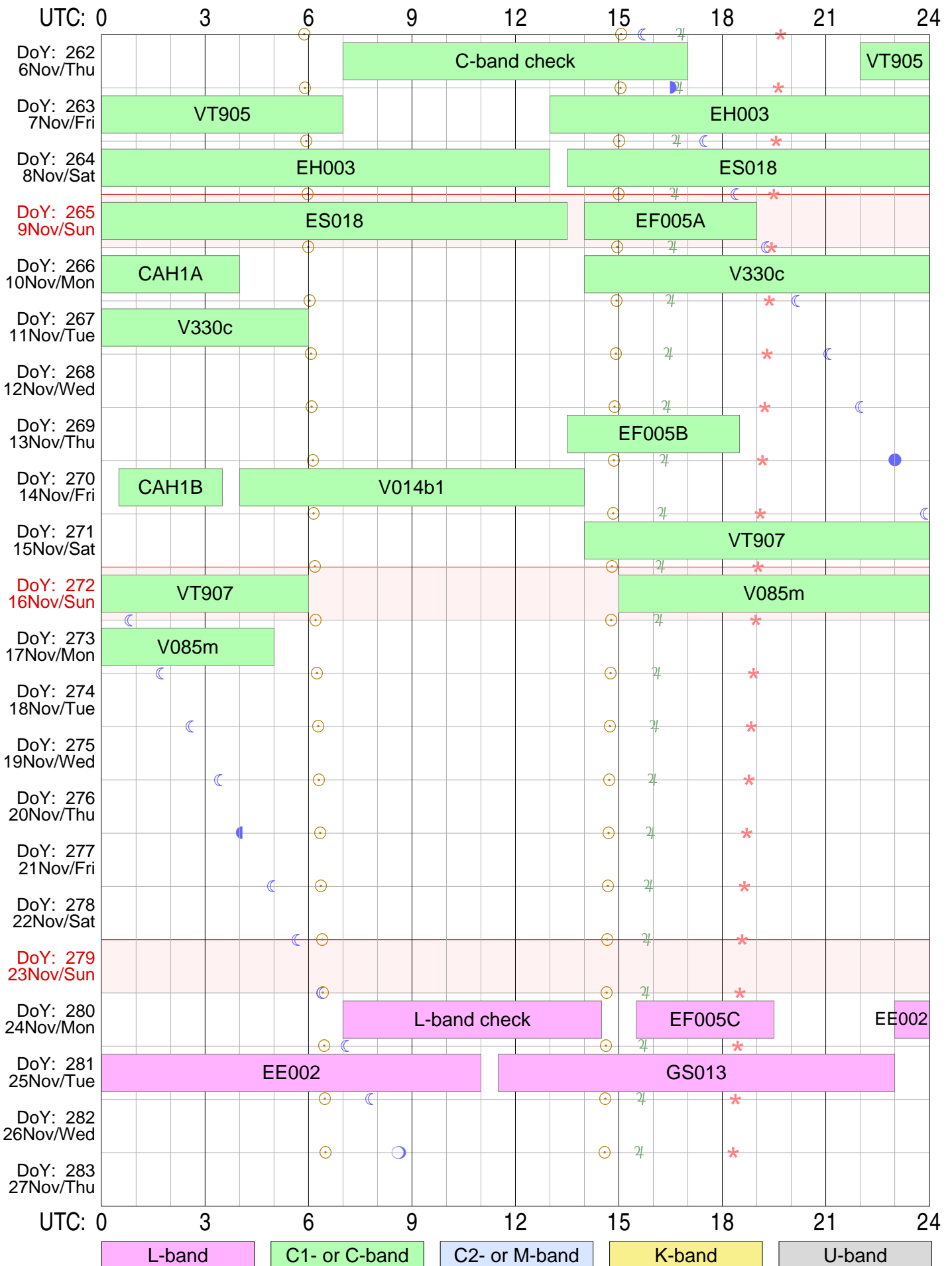


Sky events:    ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    ★ Transit of Aries (0h ST)

*Total 244.0 hours in 24 experiments scheduled*

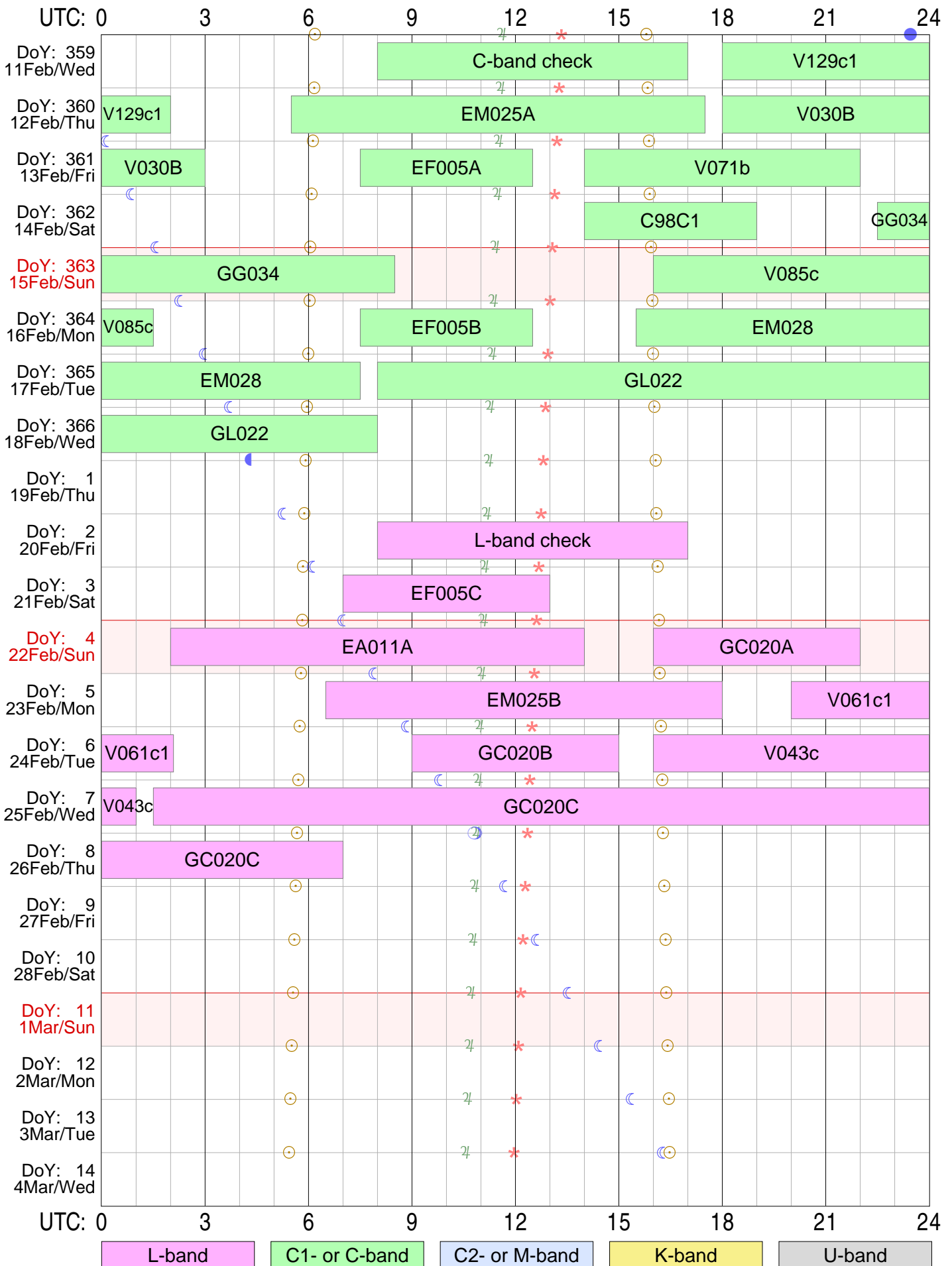


# EVN Session Nov 1997



Total 175.0 hours in 16 experiments scheduled

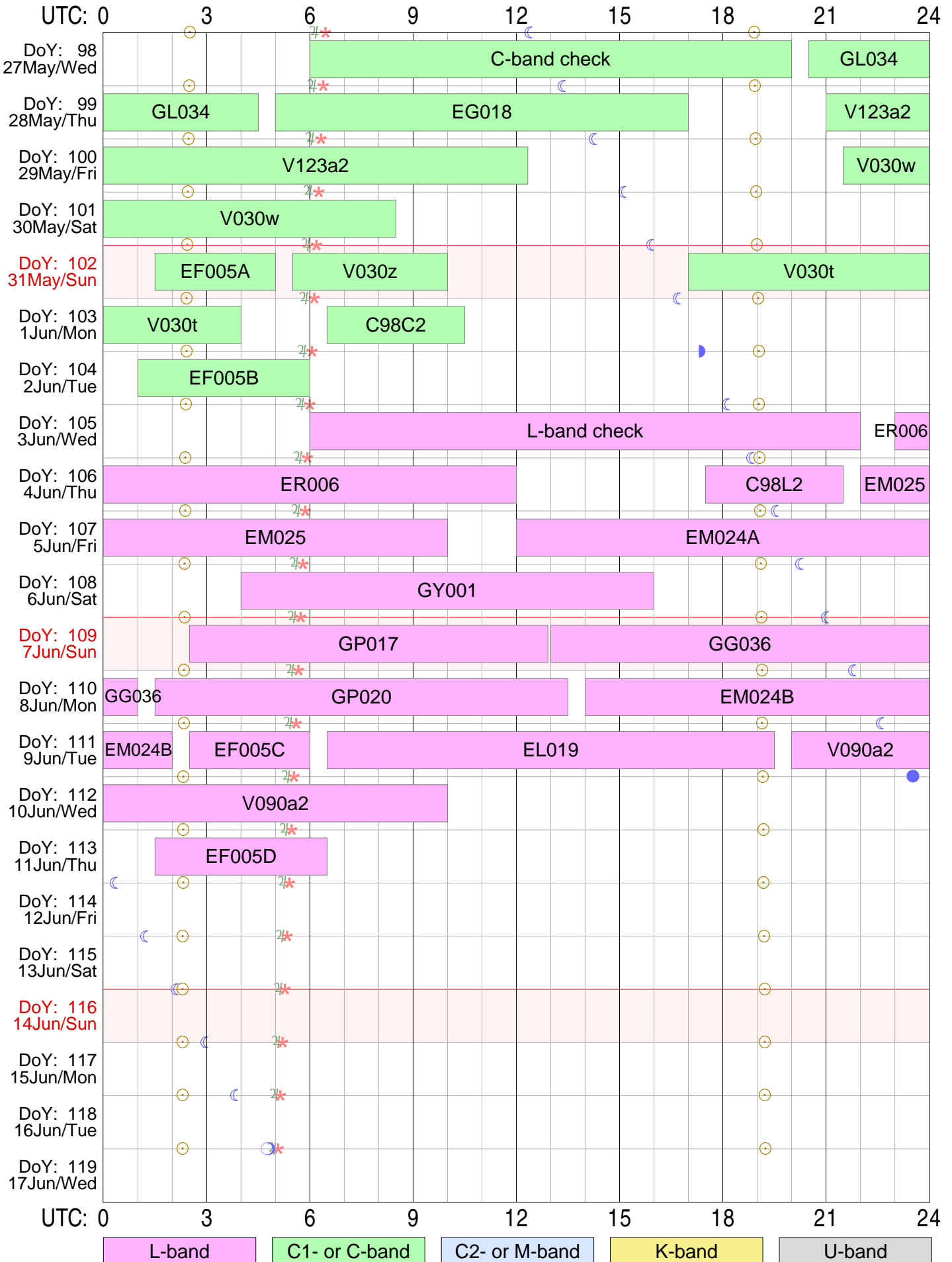
# EVN Session Feb 1998



Sky events: ○ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

*Total 215.6 hours in 21 experiments scheduled*

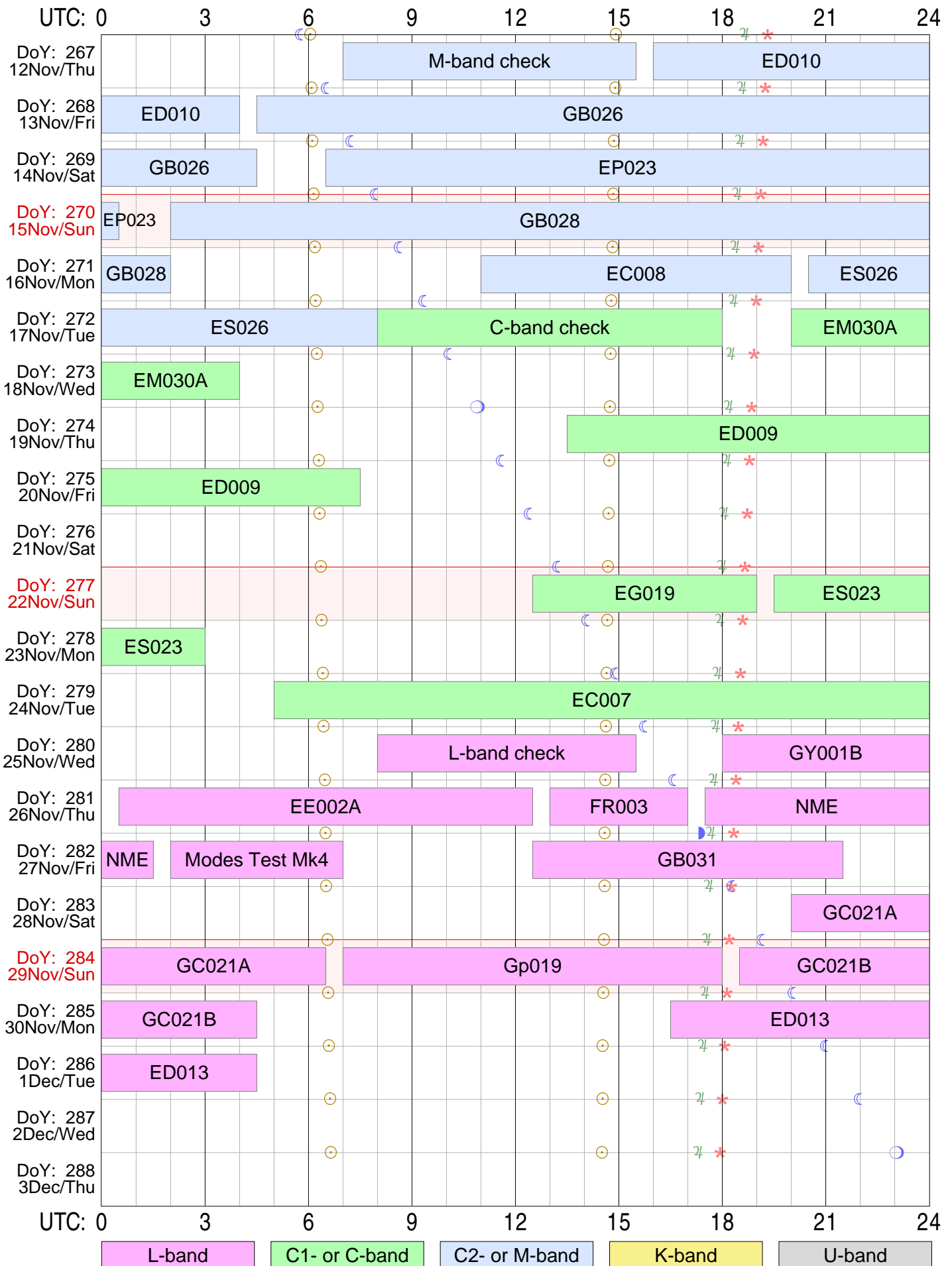
# EVN Session May/June 1998



Sky events: ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    ♈ Transit of Aries (0h ST)

Total 239.3 hours in 24 experiments scheduled

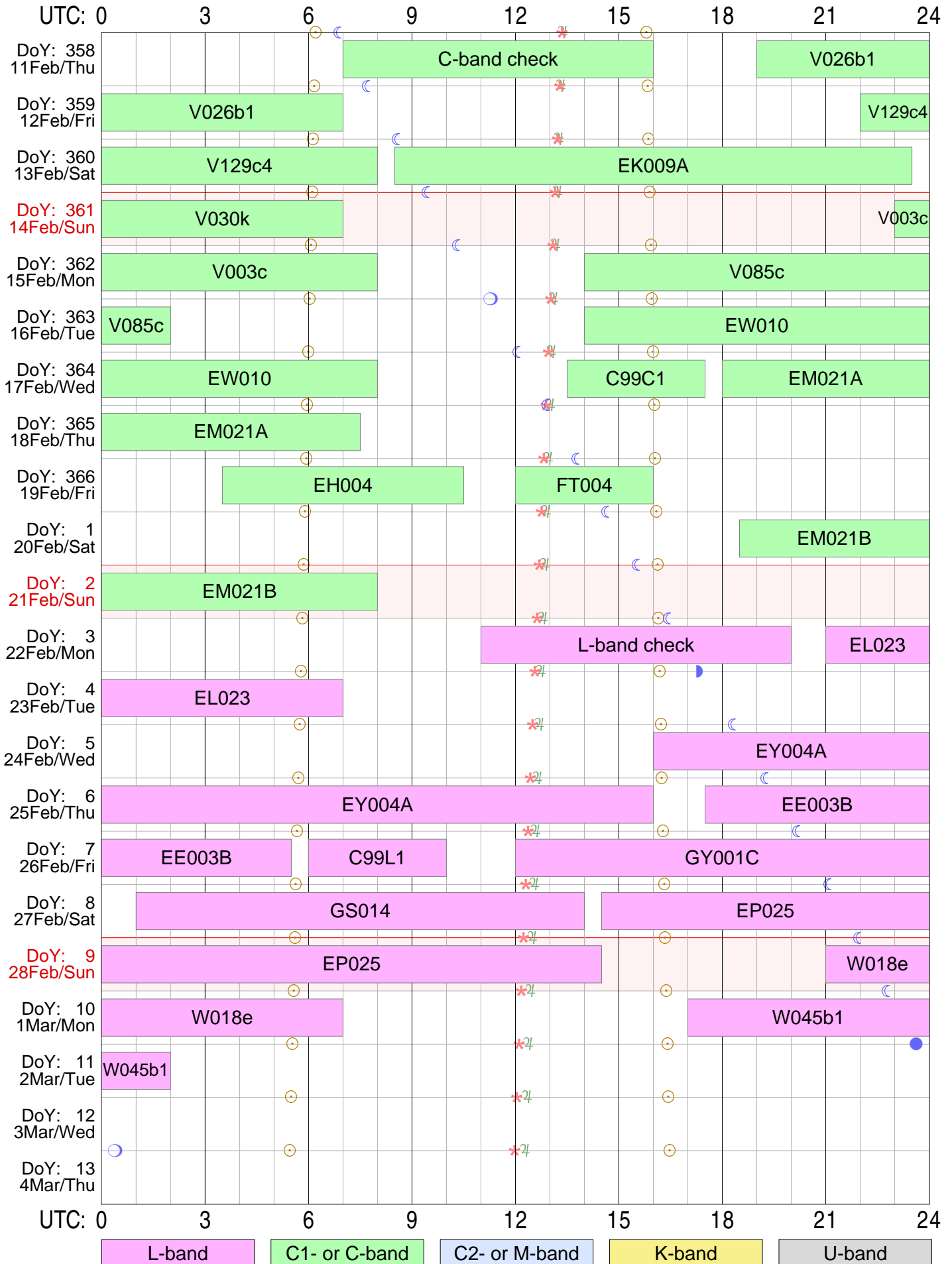
# EVN Session Nov/Dec 1998



Sky events: ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

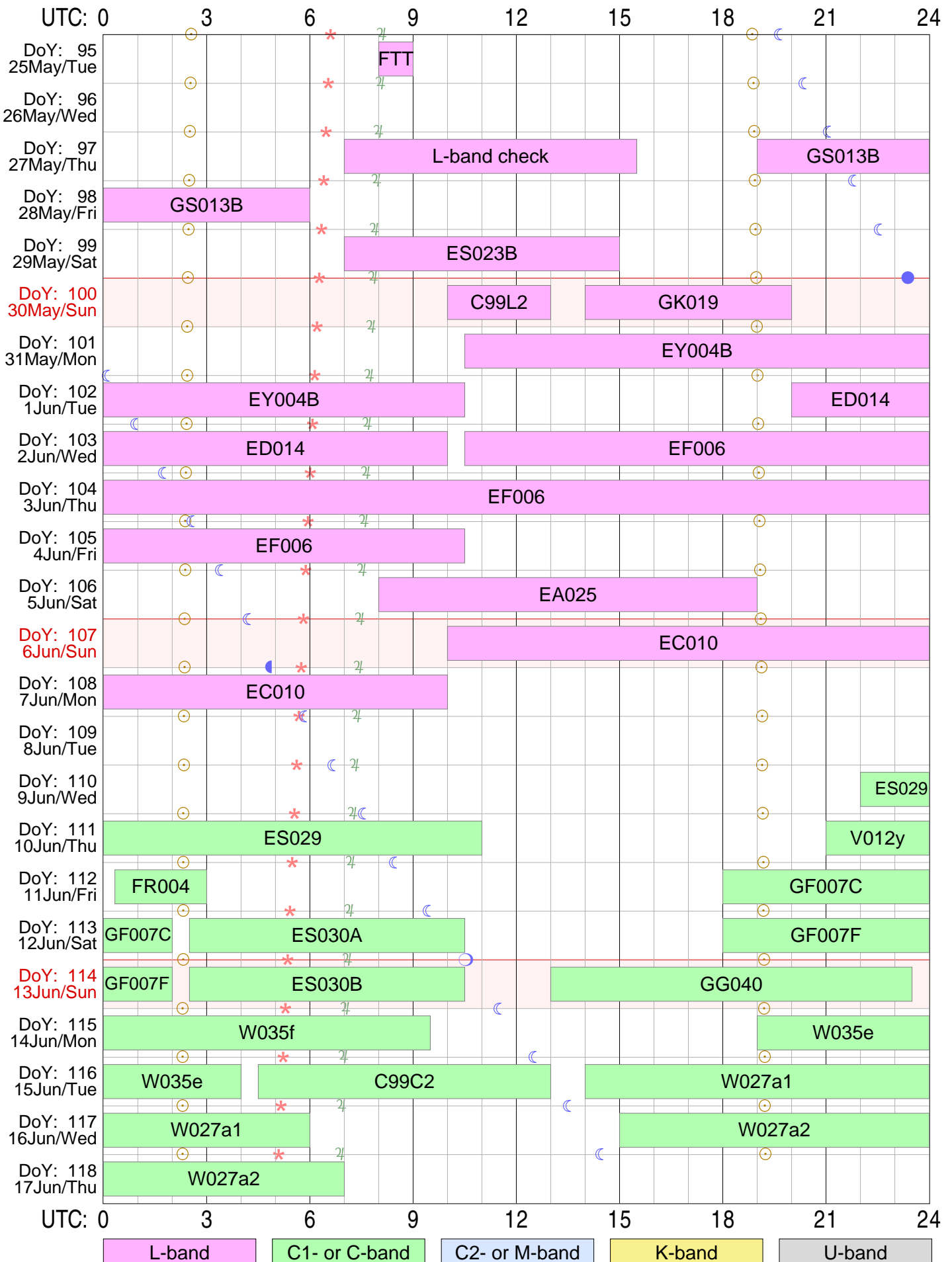
Total 277.0 hours in 25 experiments scheduled

# EVN Session Feb/Mar 1999



Total 261.0 hours in 23 experiments scheduled

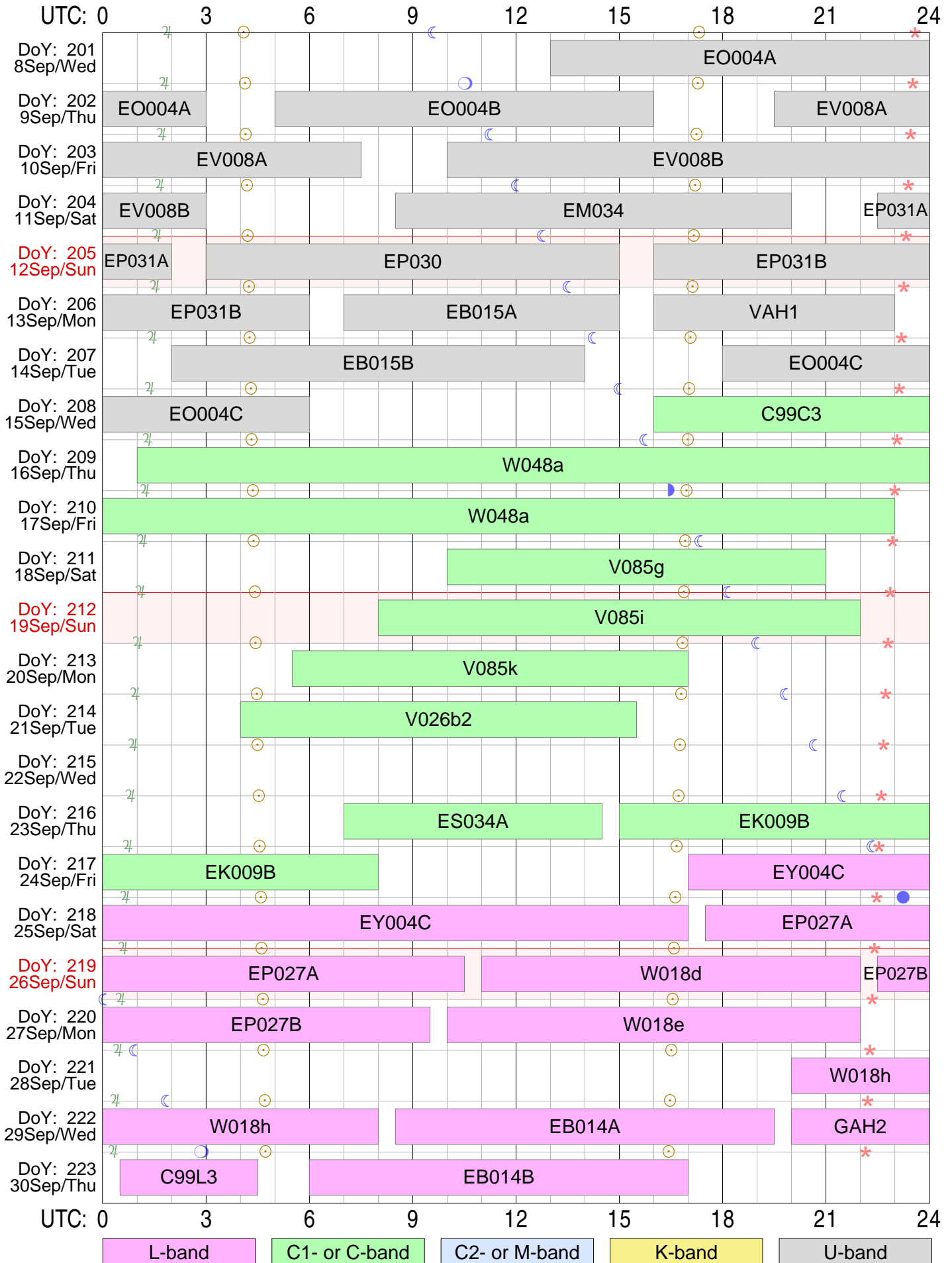
# EVN Session May/June 1999



Sky events: ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

Total 278.7 hours in 24 experiments scheduled

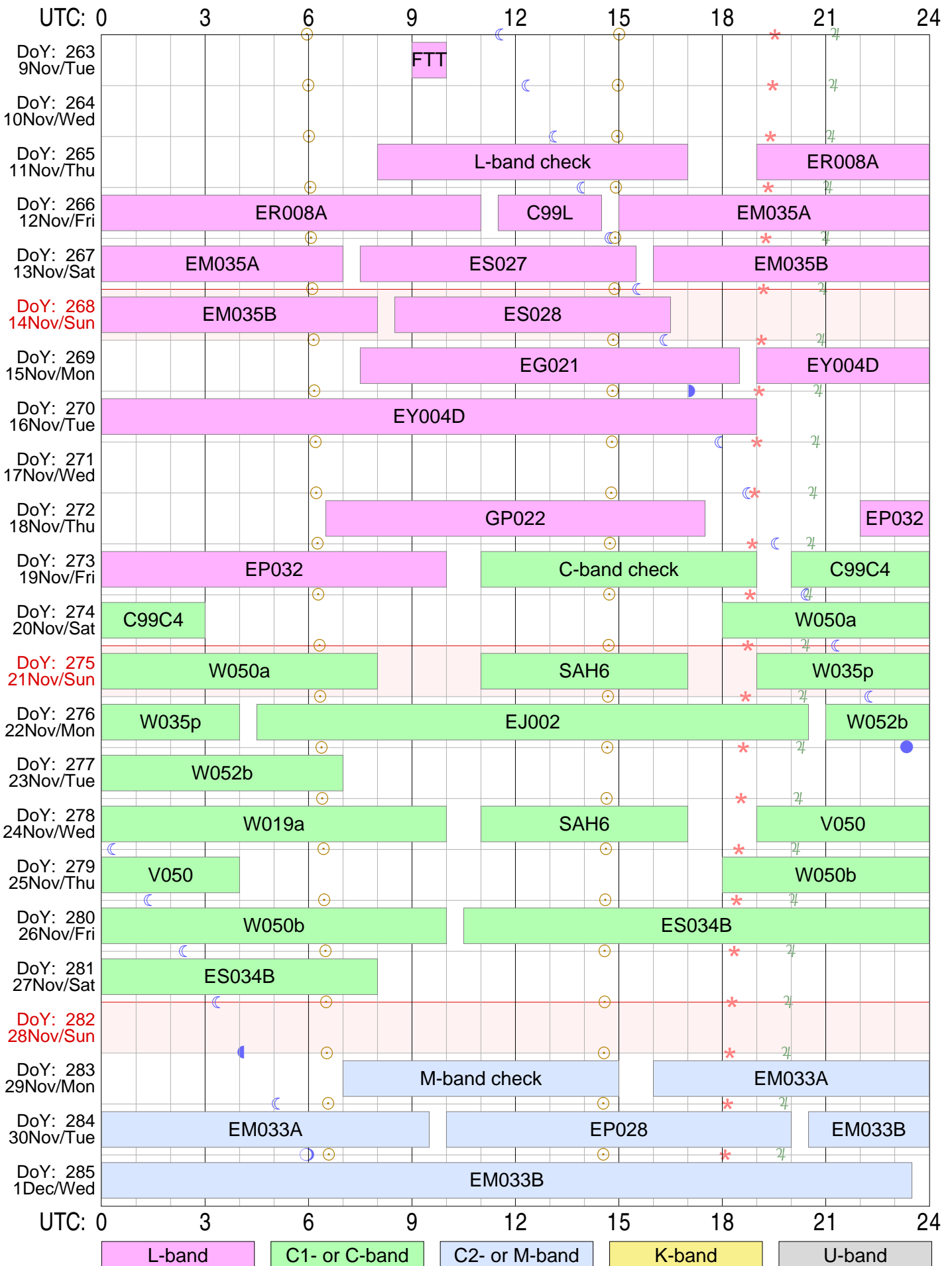
# EVN Session Sep 1999



Sky events: ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

*Total 377.5 hours in 30 experiments scheduled*

# EVN Session Nov/Dec 1999

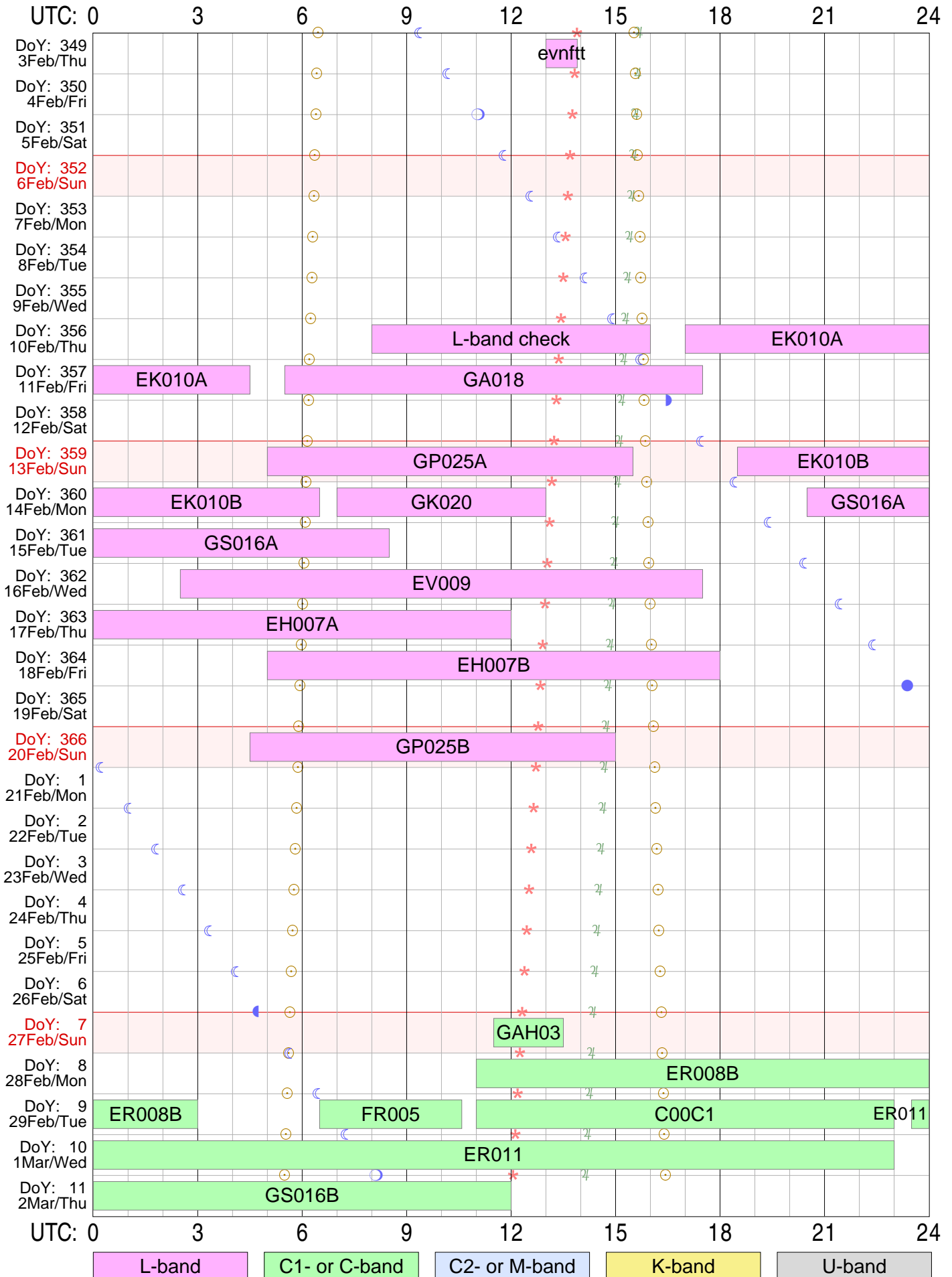


Sky events: ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

*Total 330.0 hours in 28 experiments scheduled*



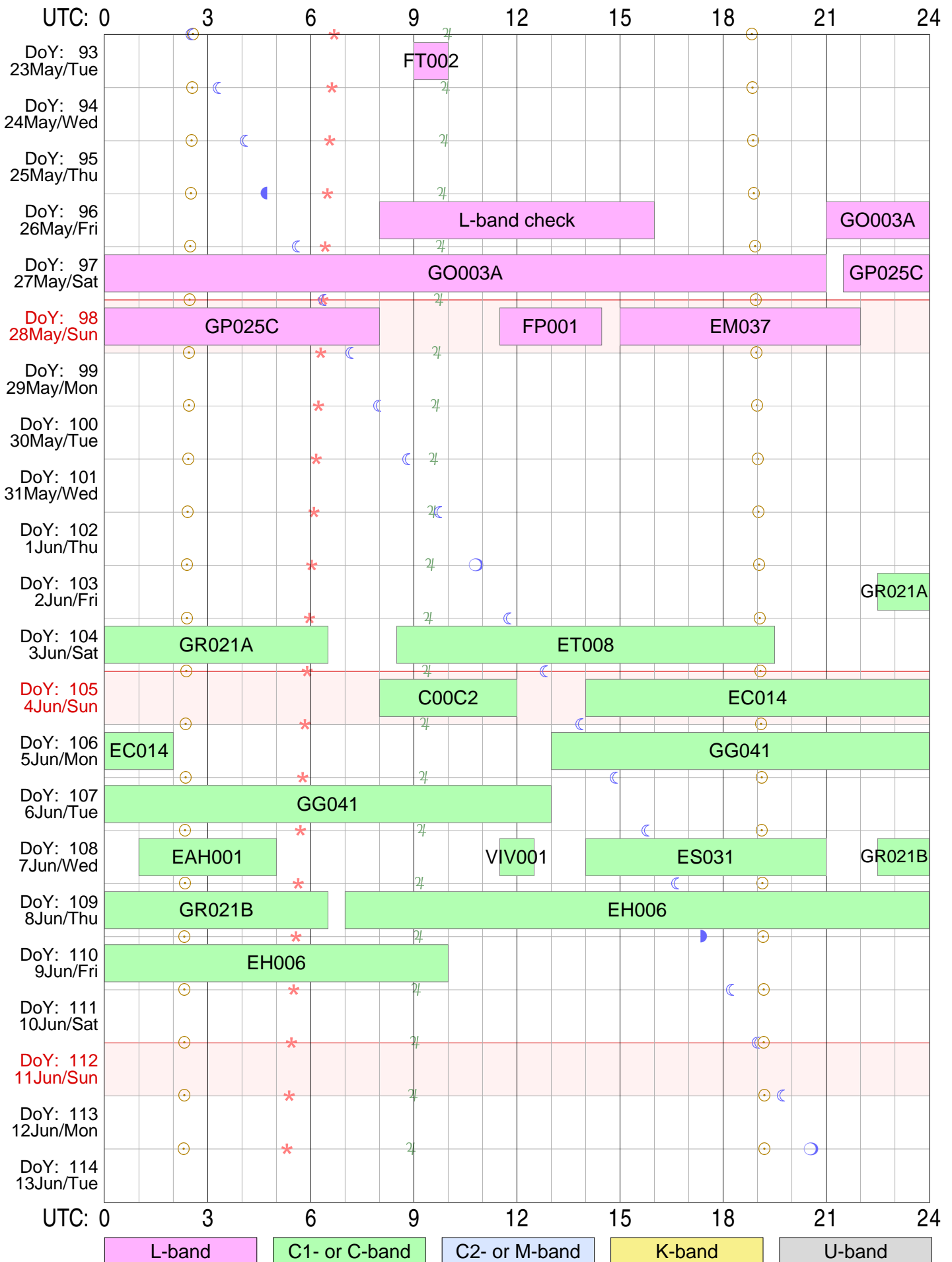
# EVN Session Feb/Mar 2000



Sky events: ○ Sunrise & sunset ○●☾ Transit of Moon ♃ Transit of Jupiter \* Transit of Aries (0h ST)

Total 193.0 hours in 18 experiments scheduled

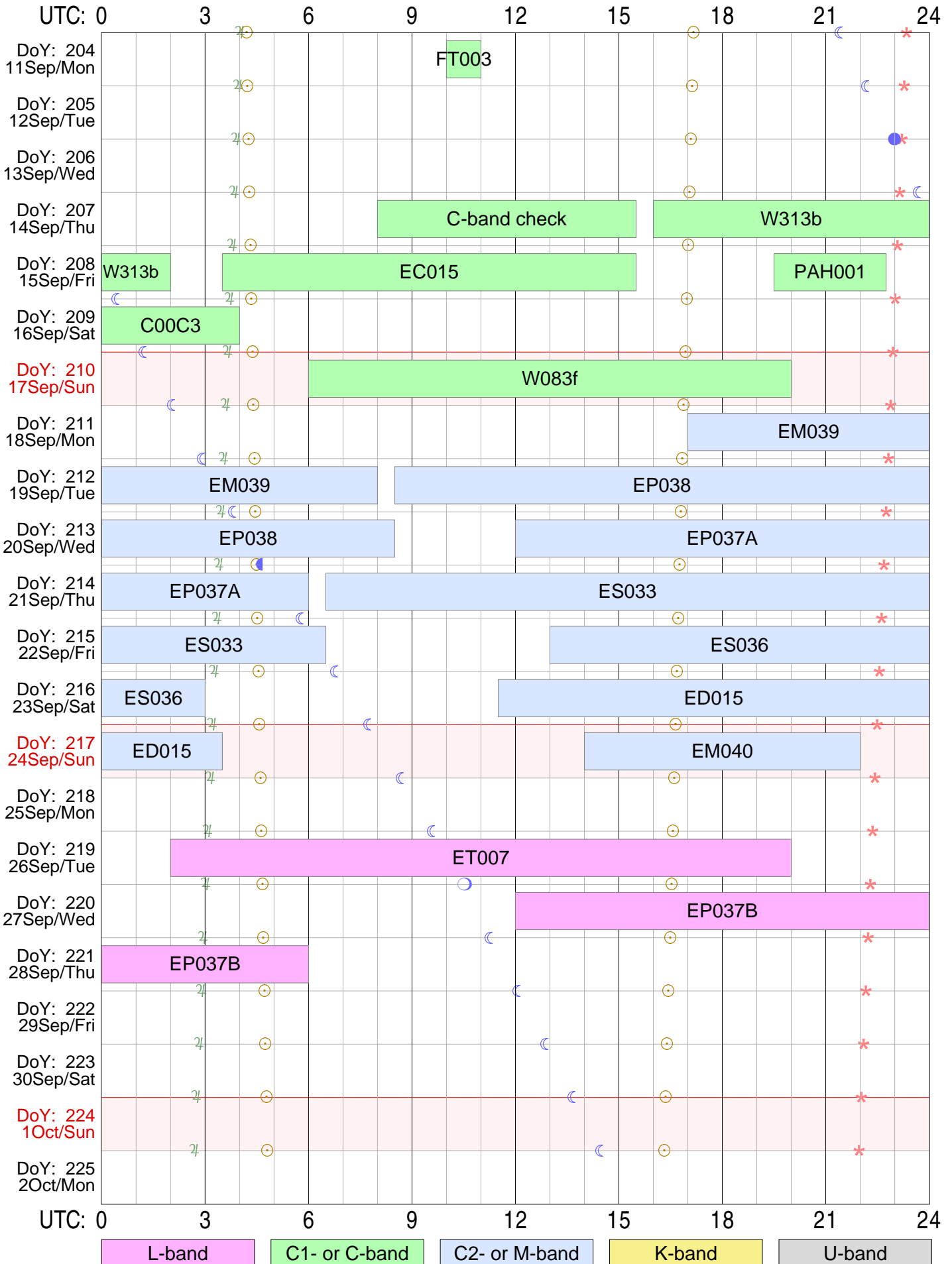
# EVN Session May/June 2000



Sky events: ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

*Total 159.5 hours in 16 experiments scheduled*

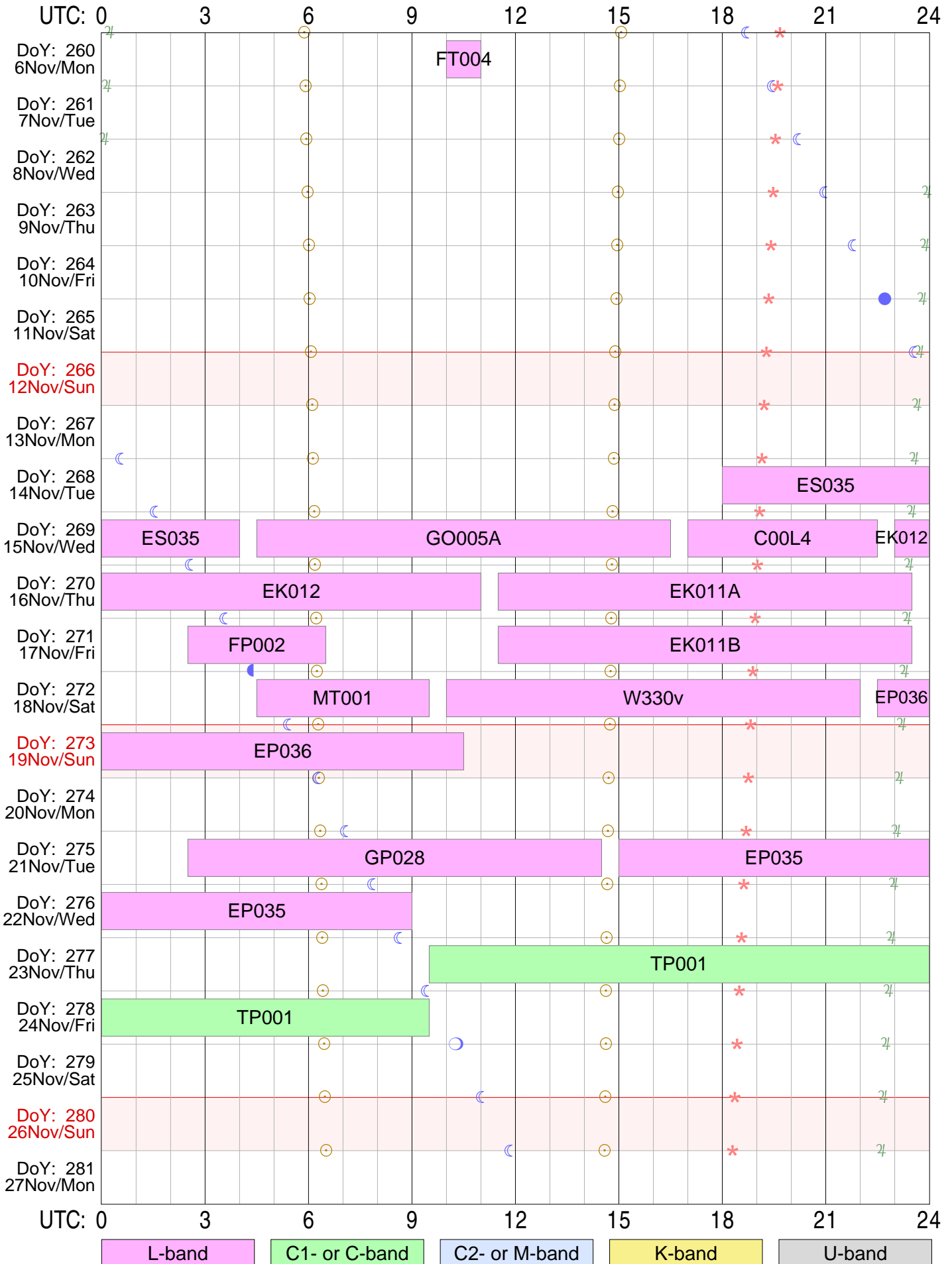
# EVN Session Sep 2000



Sky events: ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

*Total 206.7 hours in 16 experiments scheduled*

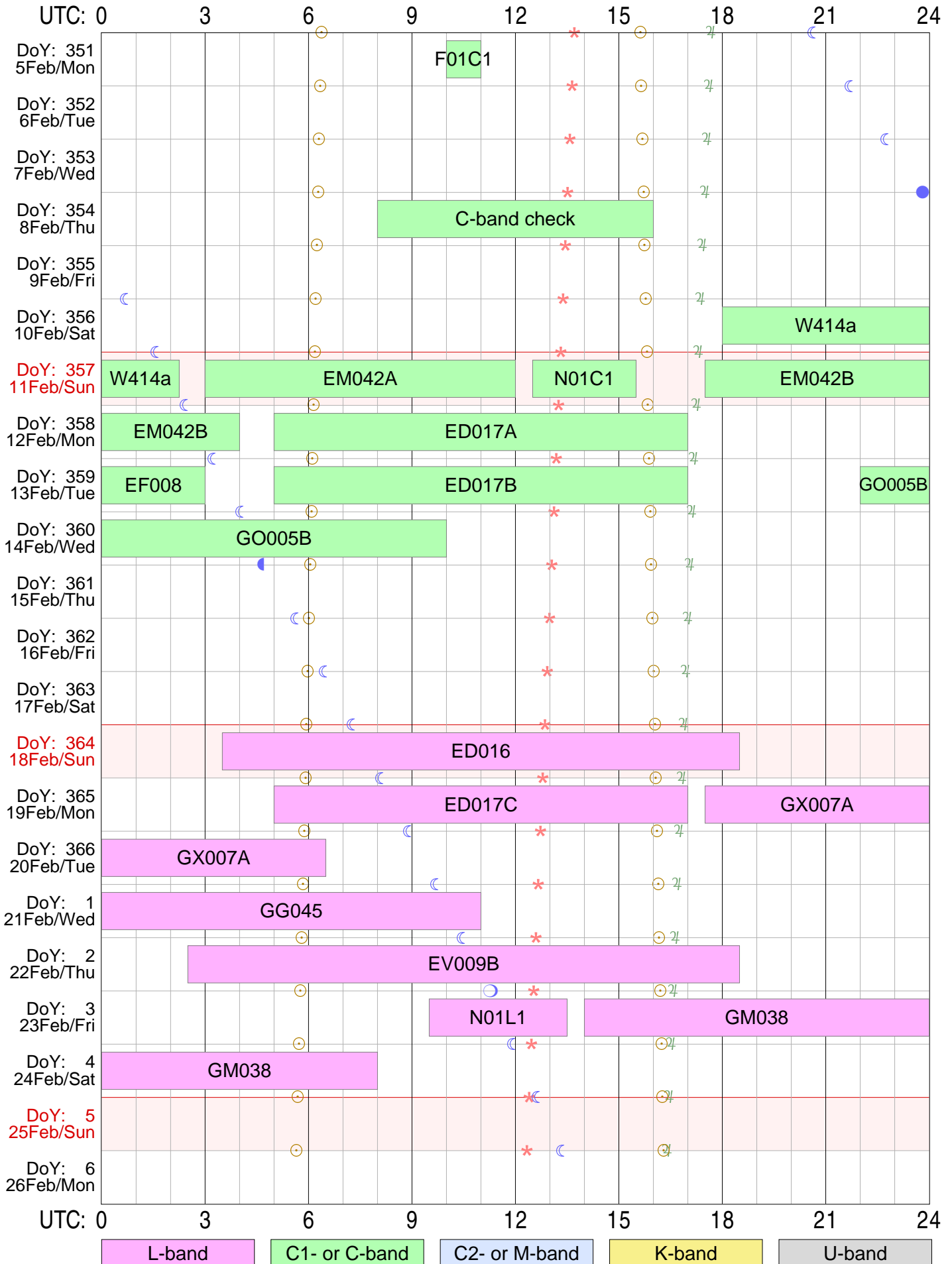
# EVN Session Nov 2000



Sky events: ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    ★ Transit of Aries (0h ST)

*Total 151.5 hours in 14 experiments scheduled*

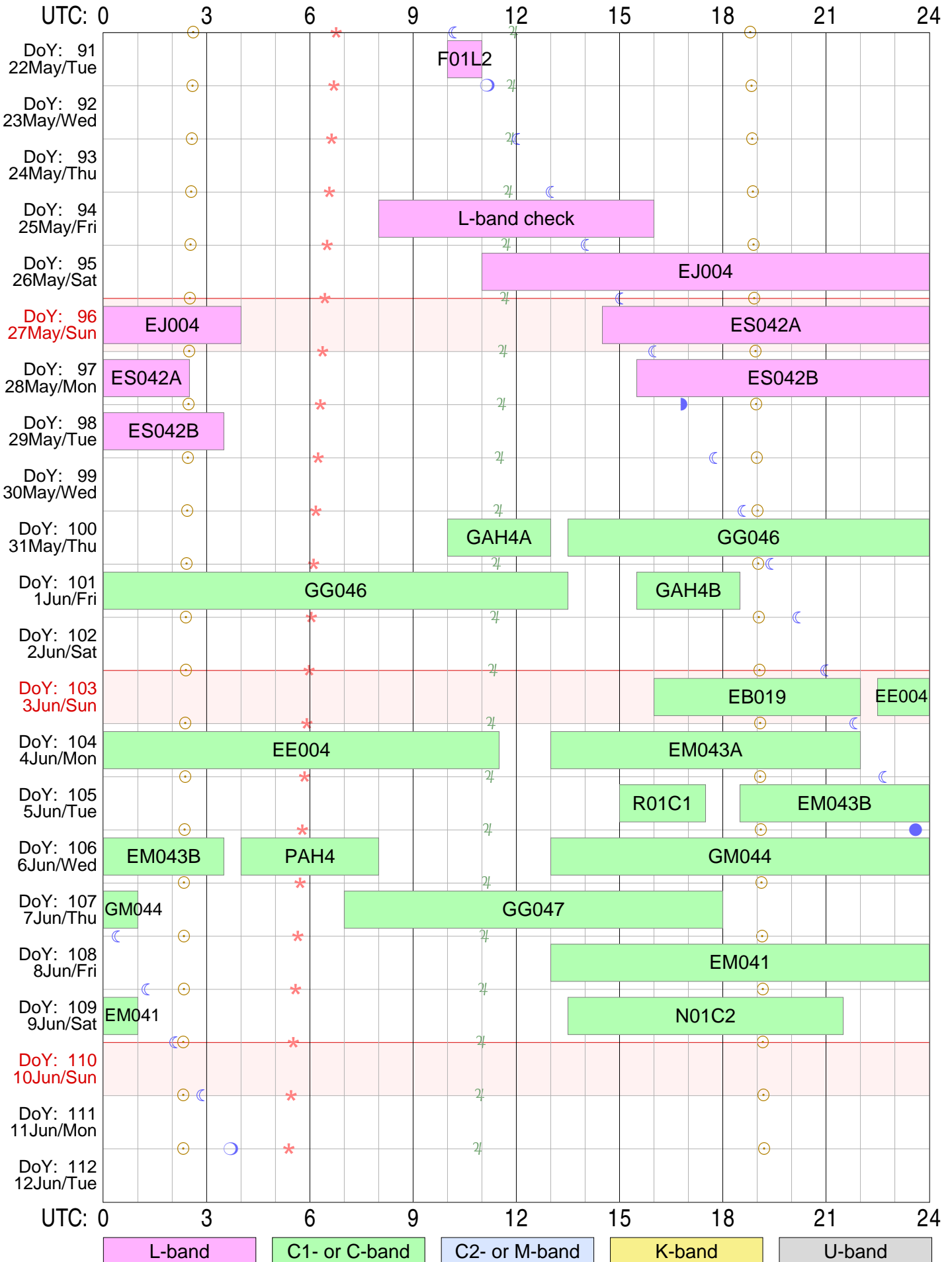
# EVN Session Feb 2001



Sky events: ○ Sunrise & sunset    ○●☾☽ Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

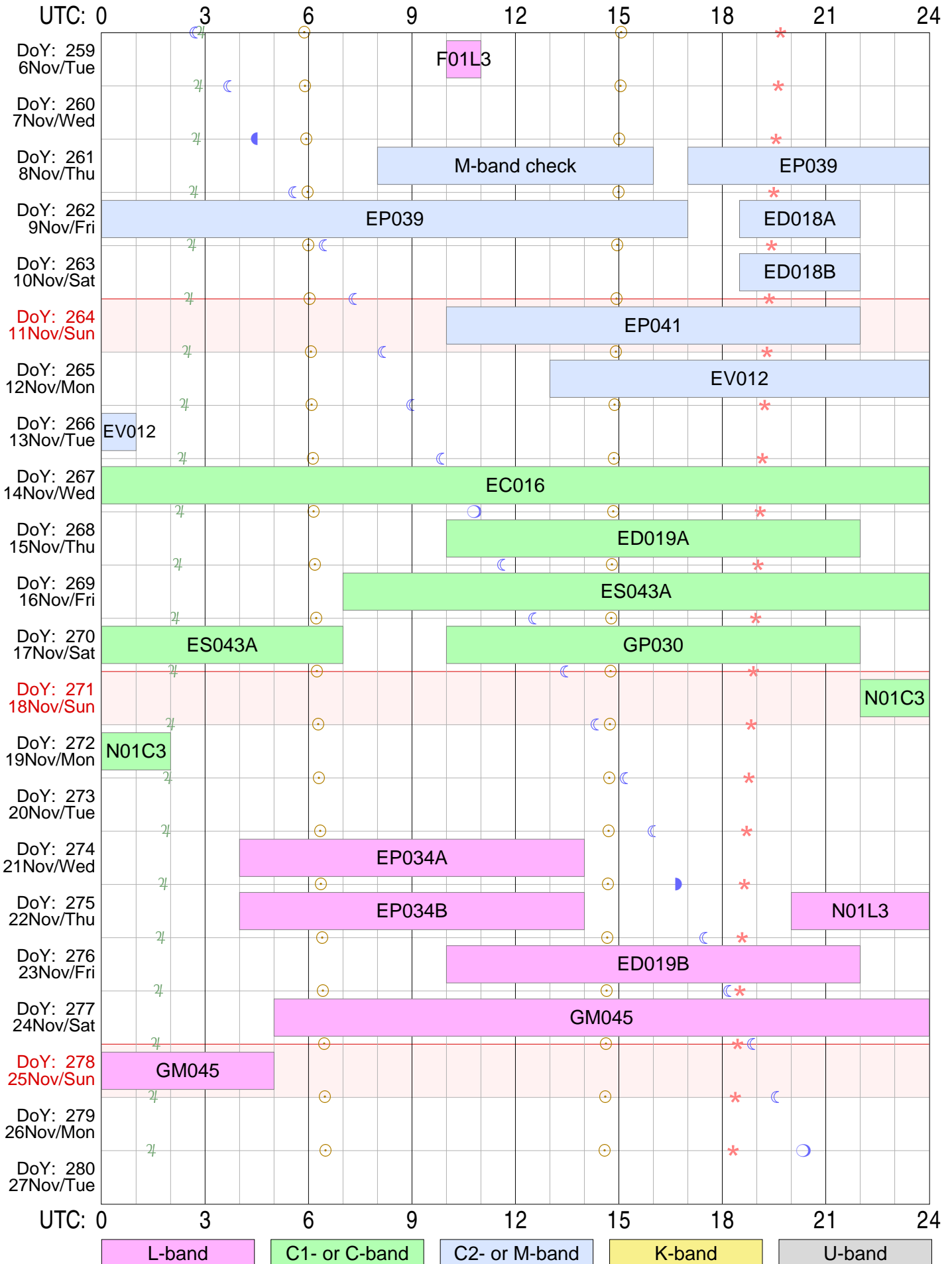
*Total 167.7 hours in 17 experiments scheduled*

# EVN Session May/June 2001



Total 166.5 hours in 18 experiments scheduled

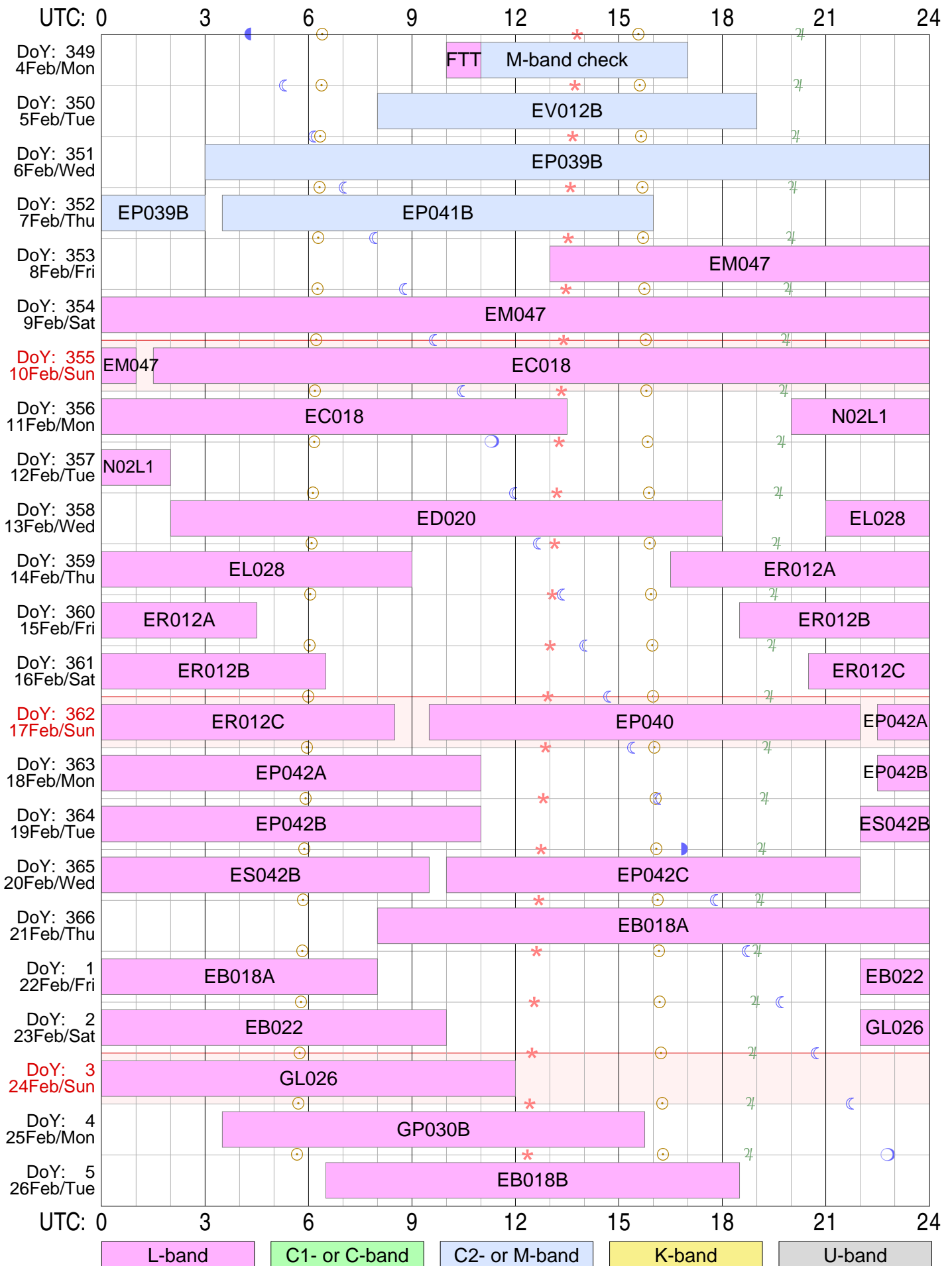
# EVN Session Nov 2001



Sky events: ○ Sunrise & sunset    ○●●☾ Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

*Total 200.0 hours in 17 experiments scheduled*

# EVN Session Feb 2002

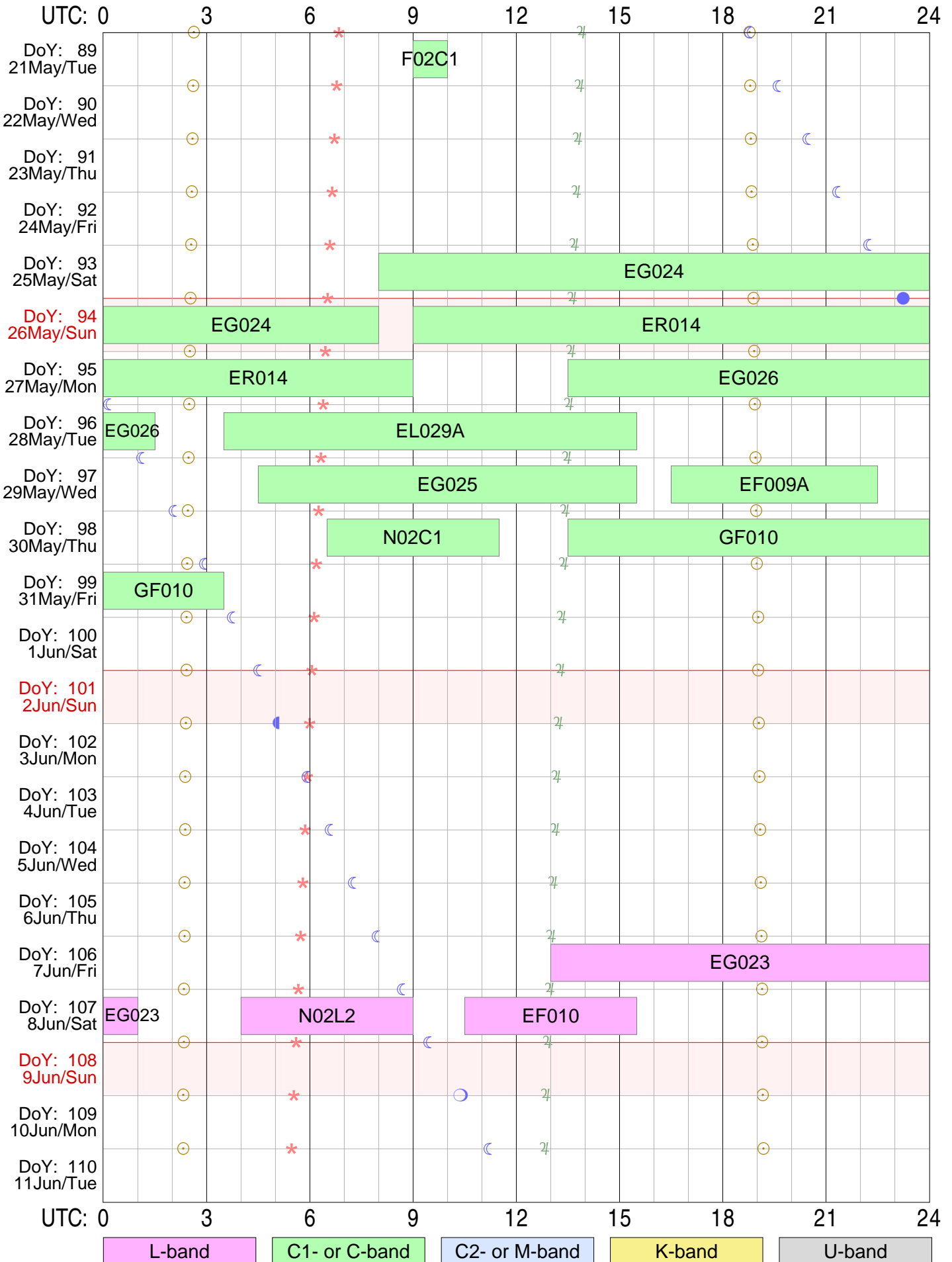


Sky events: ☉ Sunrise & sunset ☾☽ Transit of Moon ♃ Transit of Jupiter \* Transit of Aries (0h ST)

Total 332.8 hours in 23 experiments scheduled



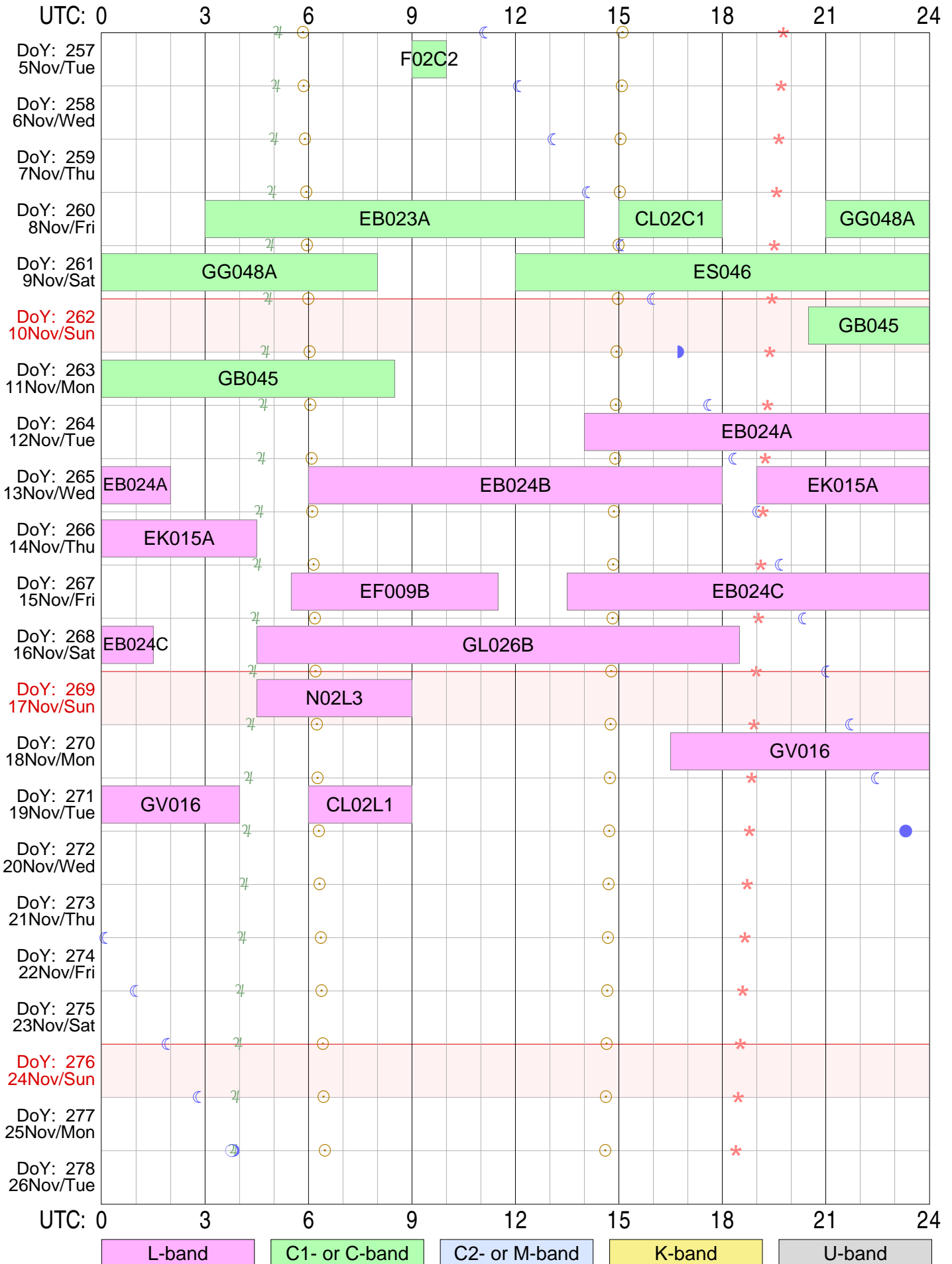
# EVN Session May/June 2002



Sky events: ☉ Sunrise & sunset ☾☽ Transit of Moon ♃ Transit of Jupiter \* Transit of Aries (0h ST)

Total 131.0 hours in 12 experiments scheduled

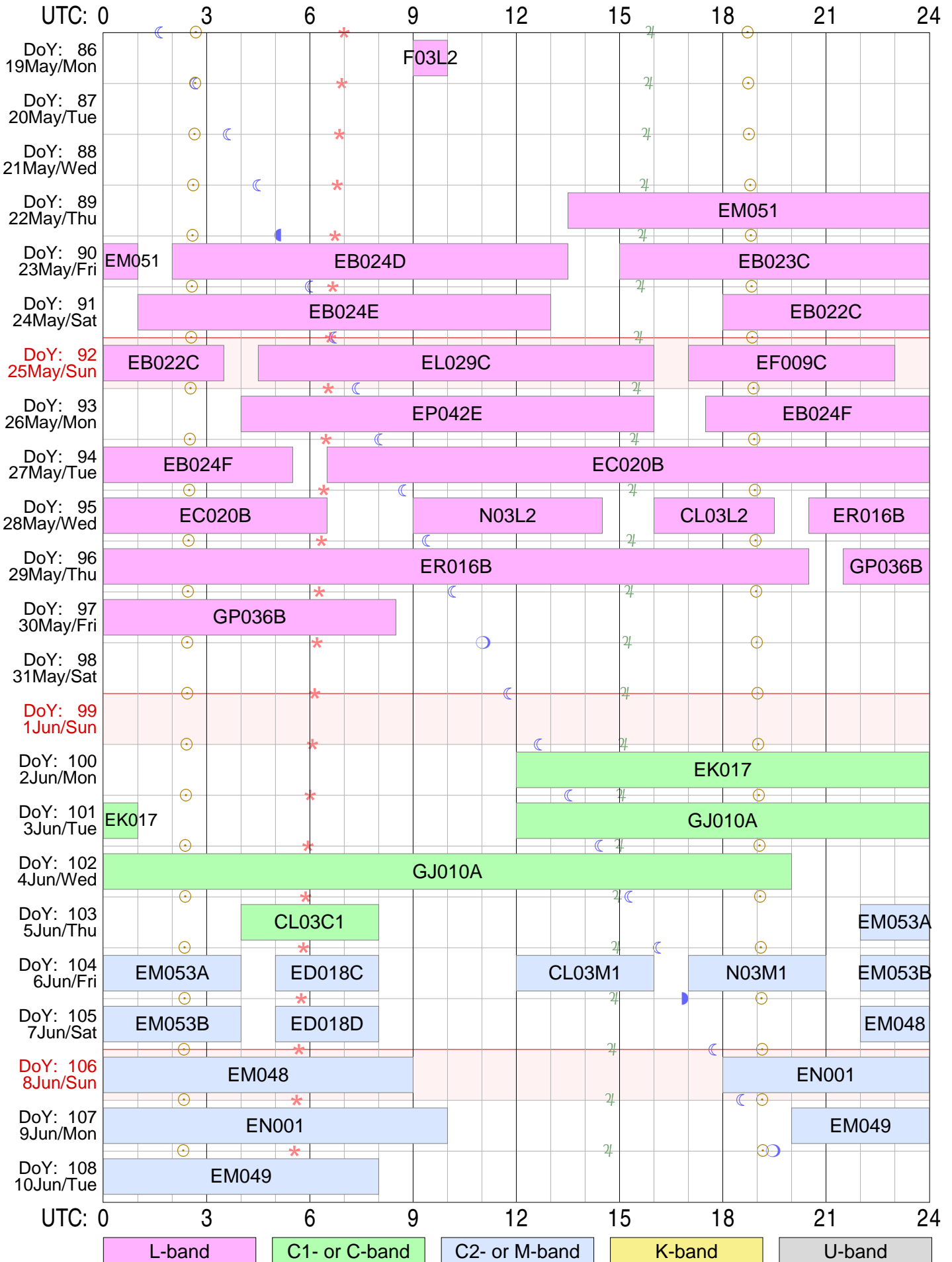
# EVN Session Nov 2002



Sky events: ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

*Total 158.5 hours in 15 experiments scheduled*

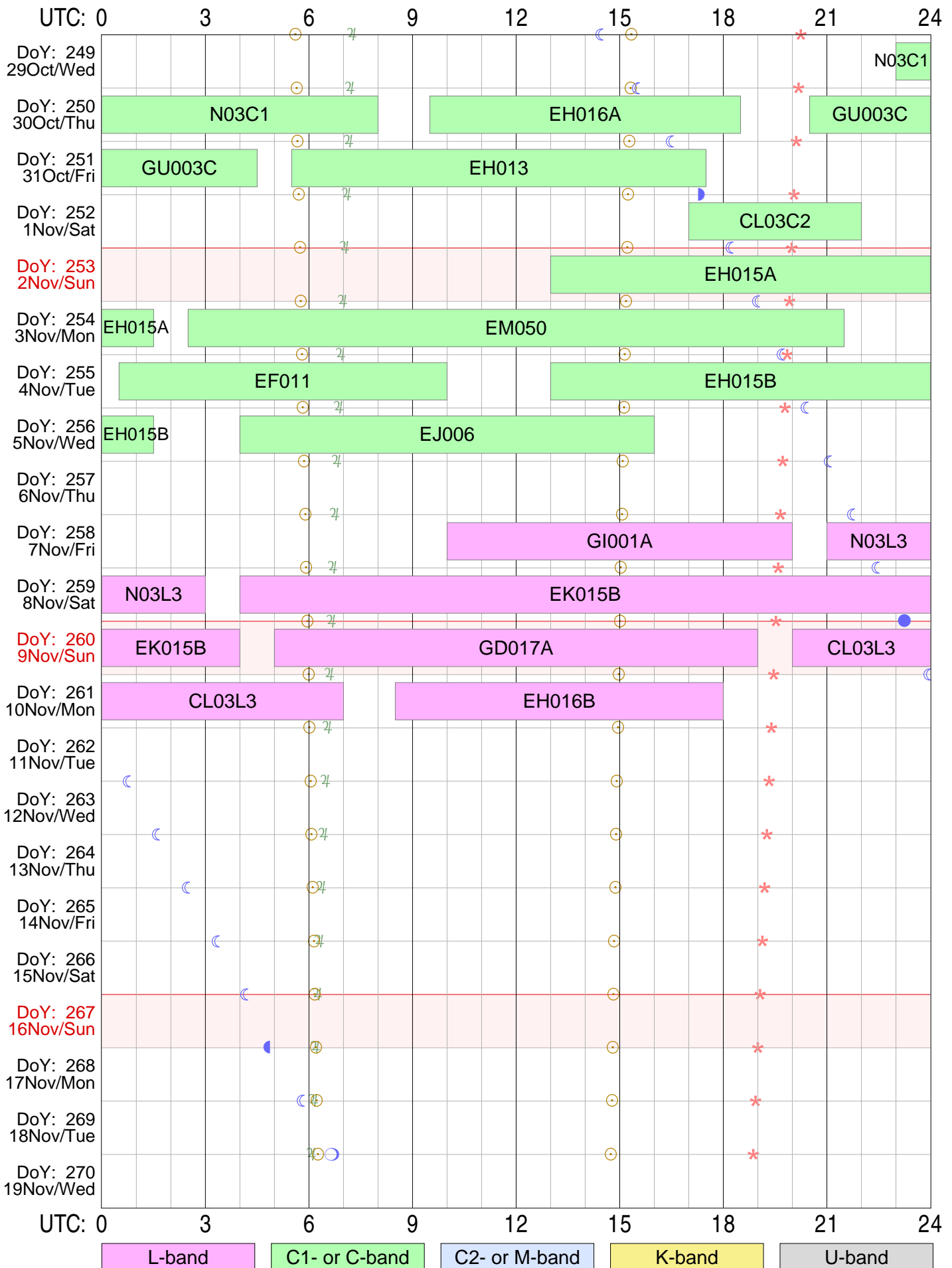
# EVN Session May/June 2003



Sky events: ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    ★ Transit of Aries (0h ST)

Total 278.0 hours in 27 experiments scheduled

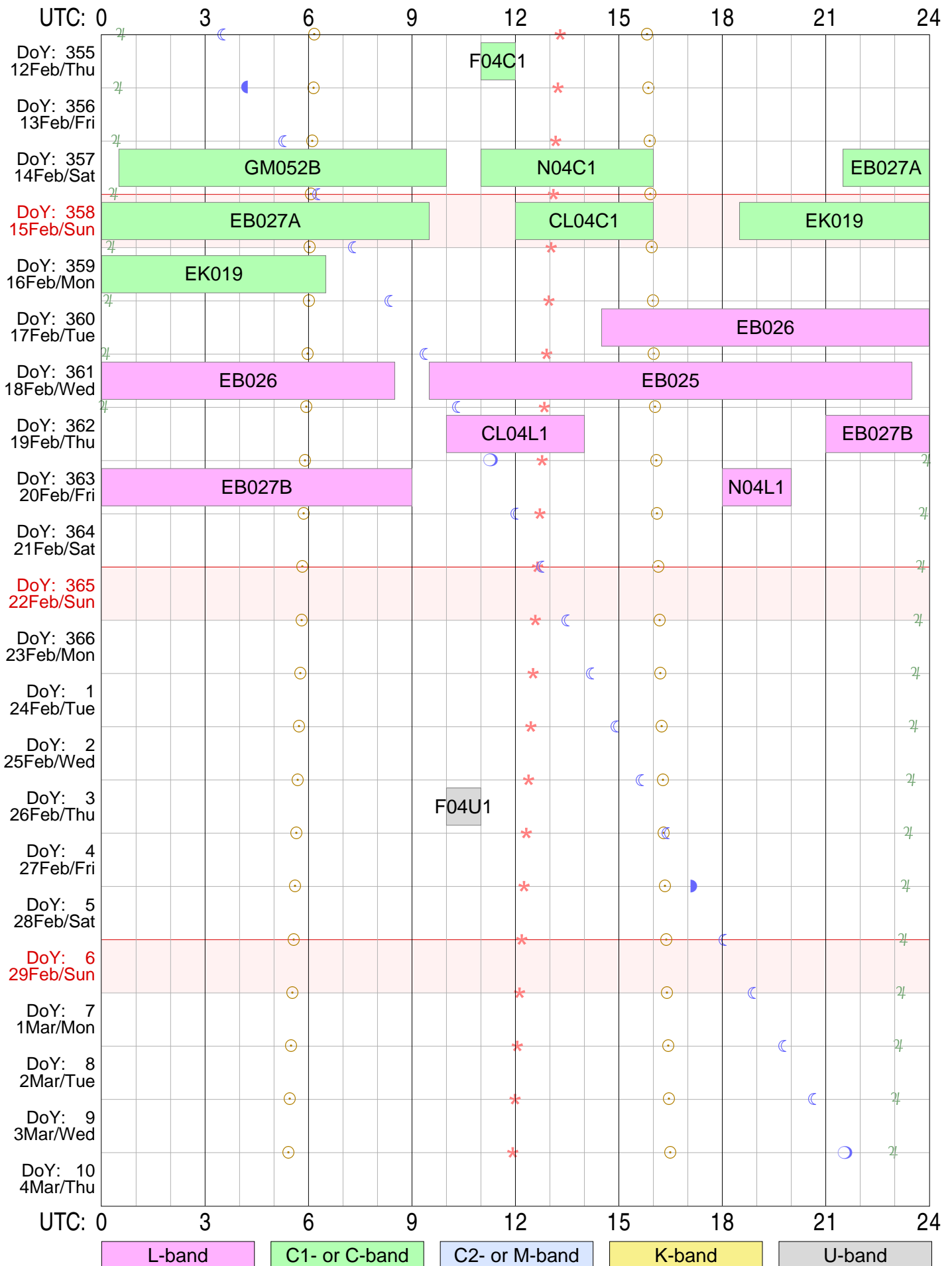
# EVN Session Oct/Nov 2003



Sky events: ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

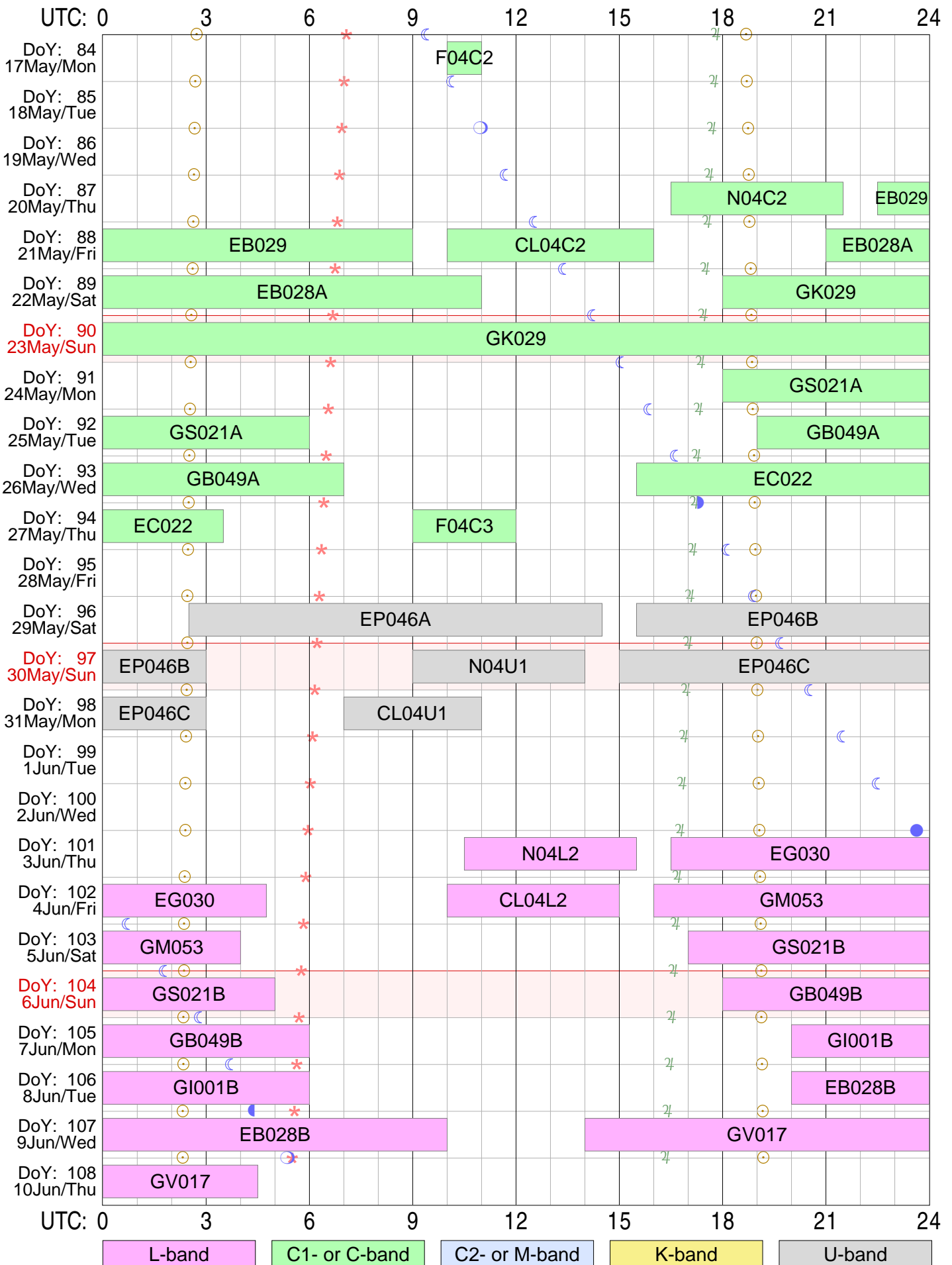
*Total 183.0 hours in 16 experiments scheduled*

# EVN Session Feb 2004



*Total 94.5 hours in 12 experiments scheduled*

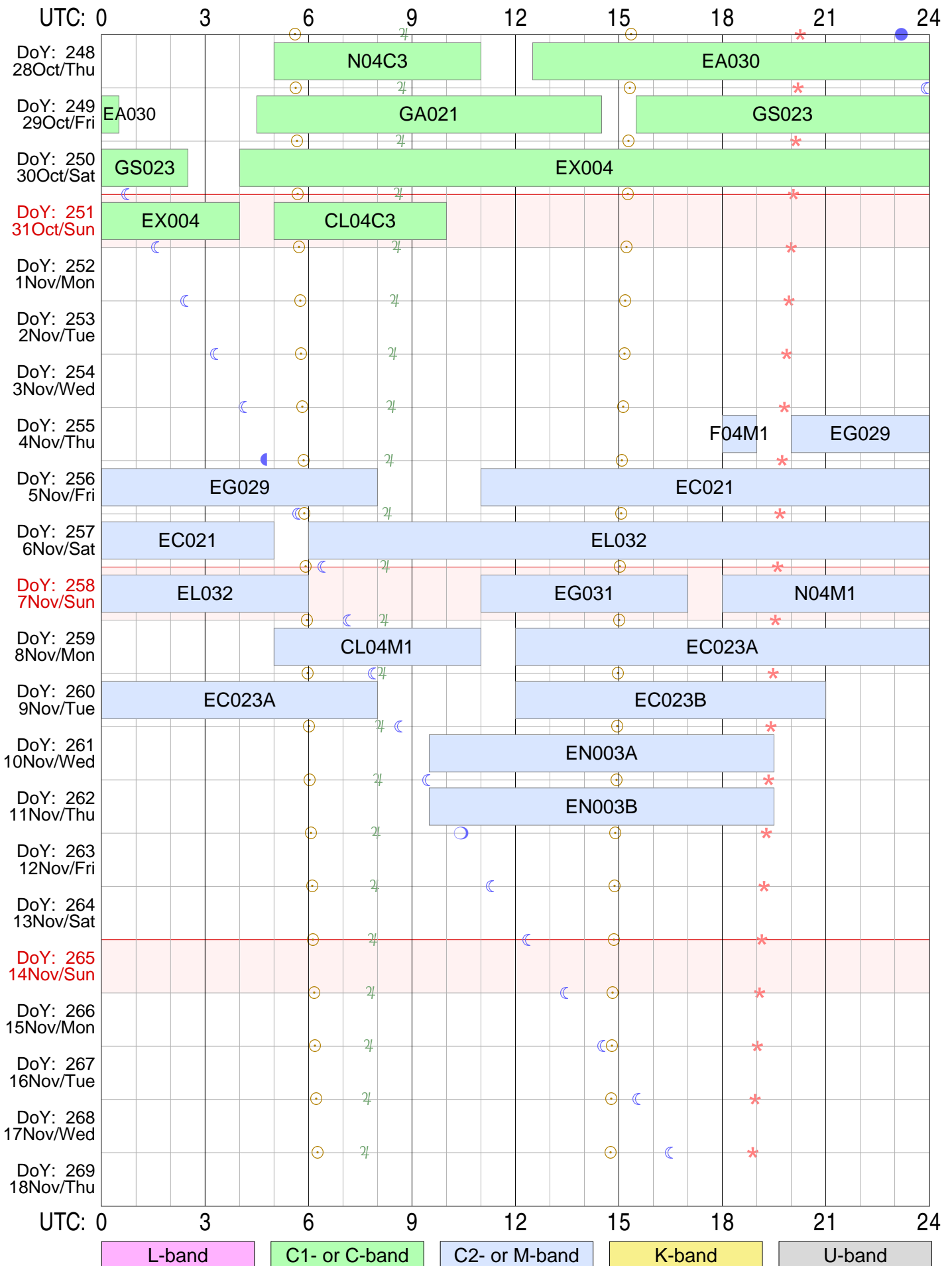
# EVN Session May/June 2004



Sky events: ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    ★ Transit of Aries (0h ST)

Total 246.7 hours in 24 experiments scheduled

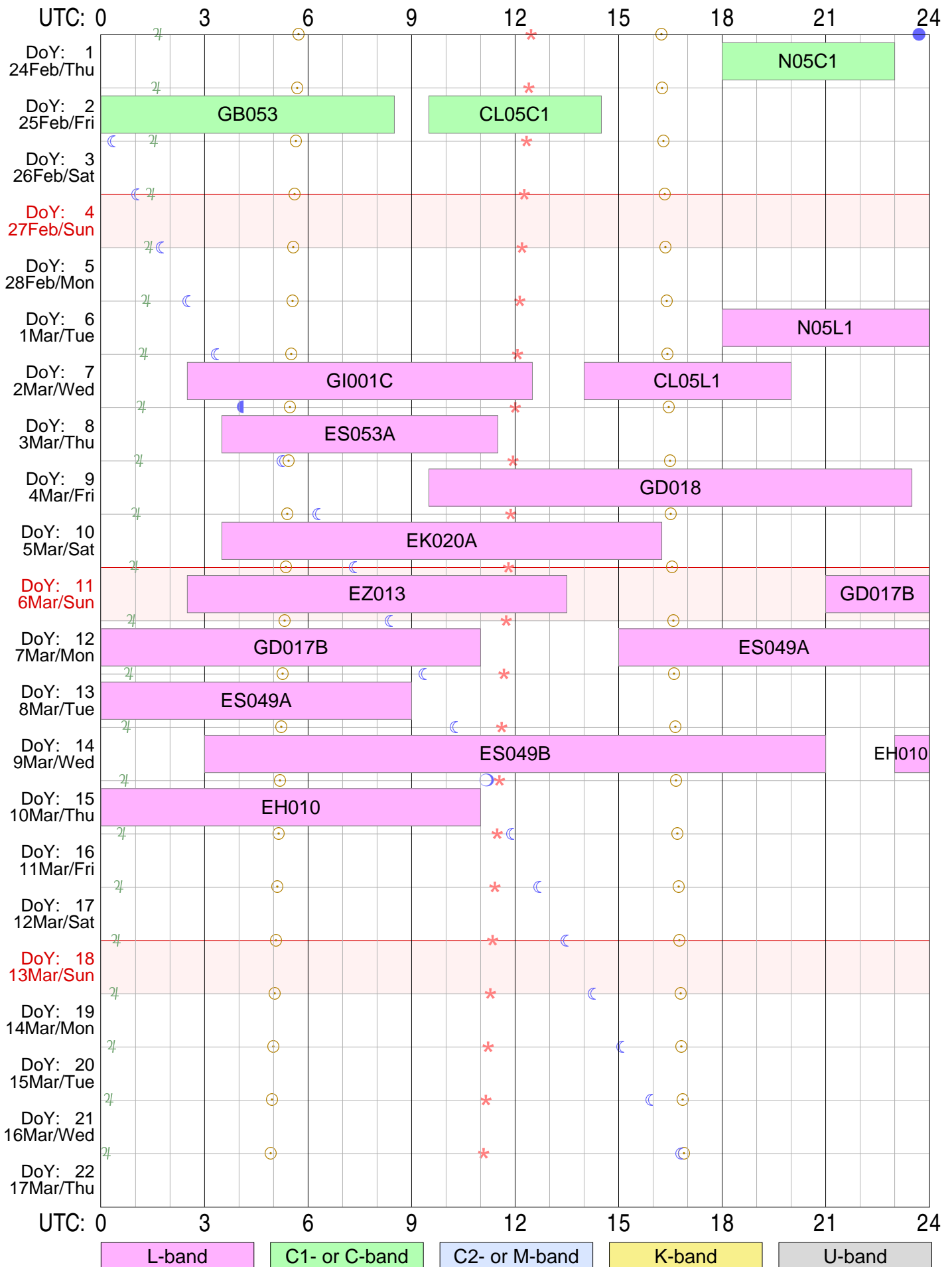
# EVN Session Oct/Nov 2004



Sky events:    ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

*Total 190.0 hours in 17 experiments scheduled*

# EVN Session Feb/Mar 2005

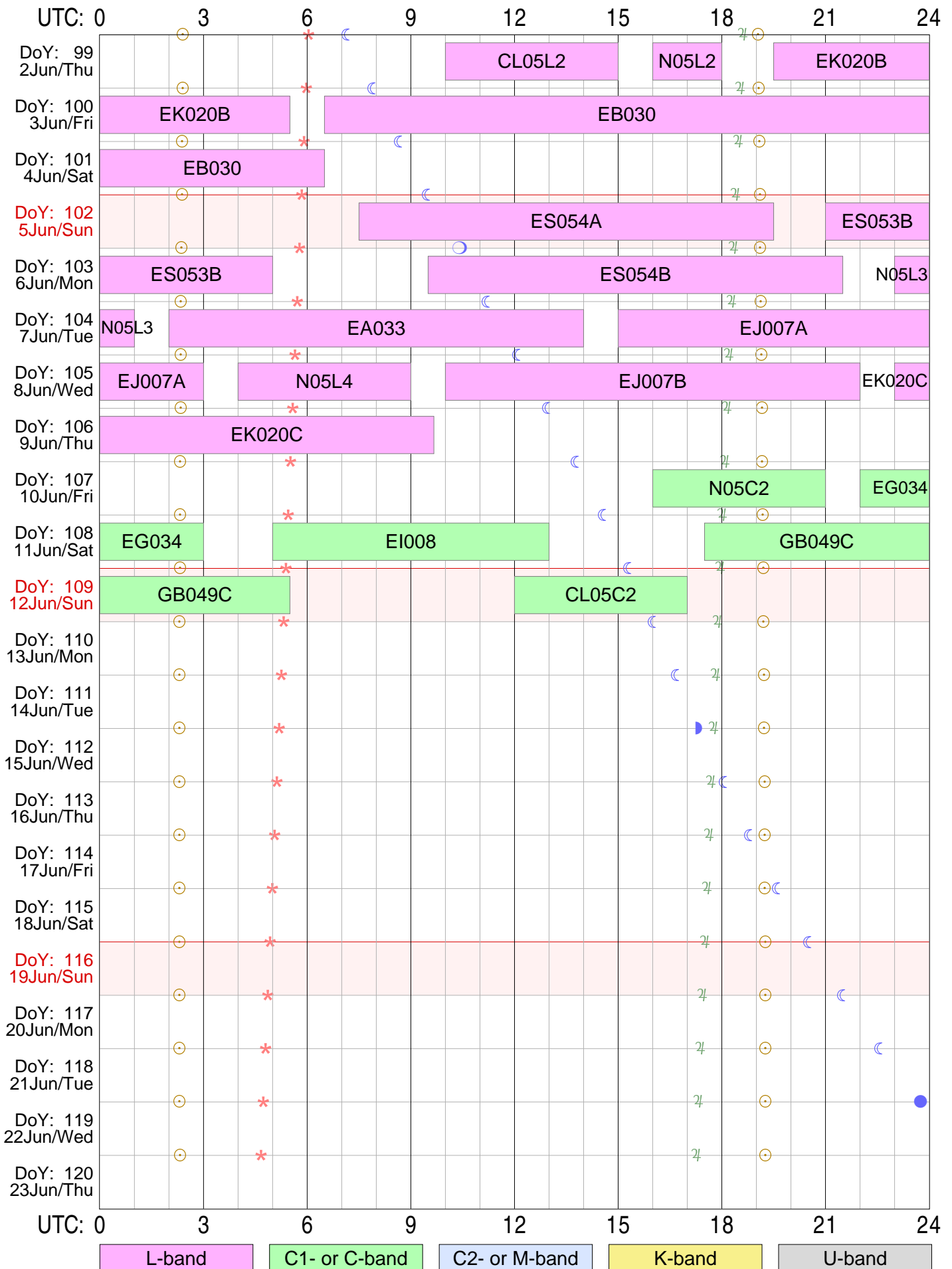


Sky events: ○ Sunrise & sunset    ○●○ Moon Transit    ♃ Jupiter Transit    \* Aries Transit (0h ST)

*Total 148.2 hours in 14 experiments scheduled*



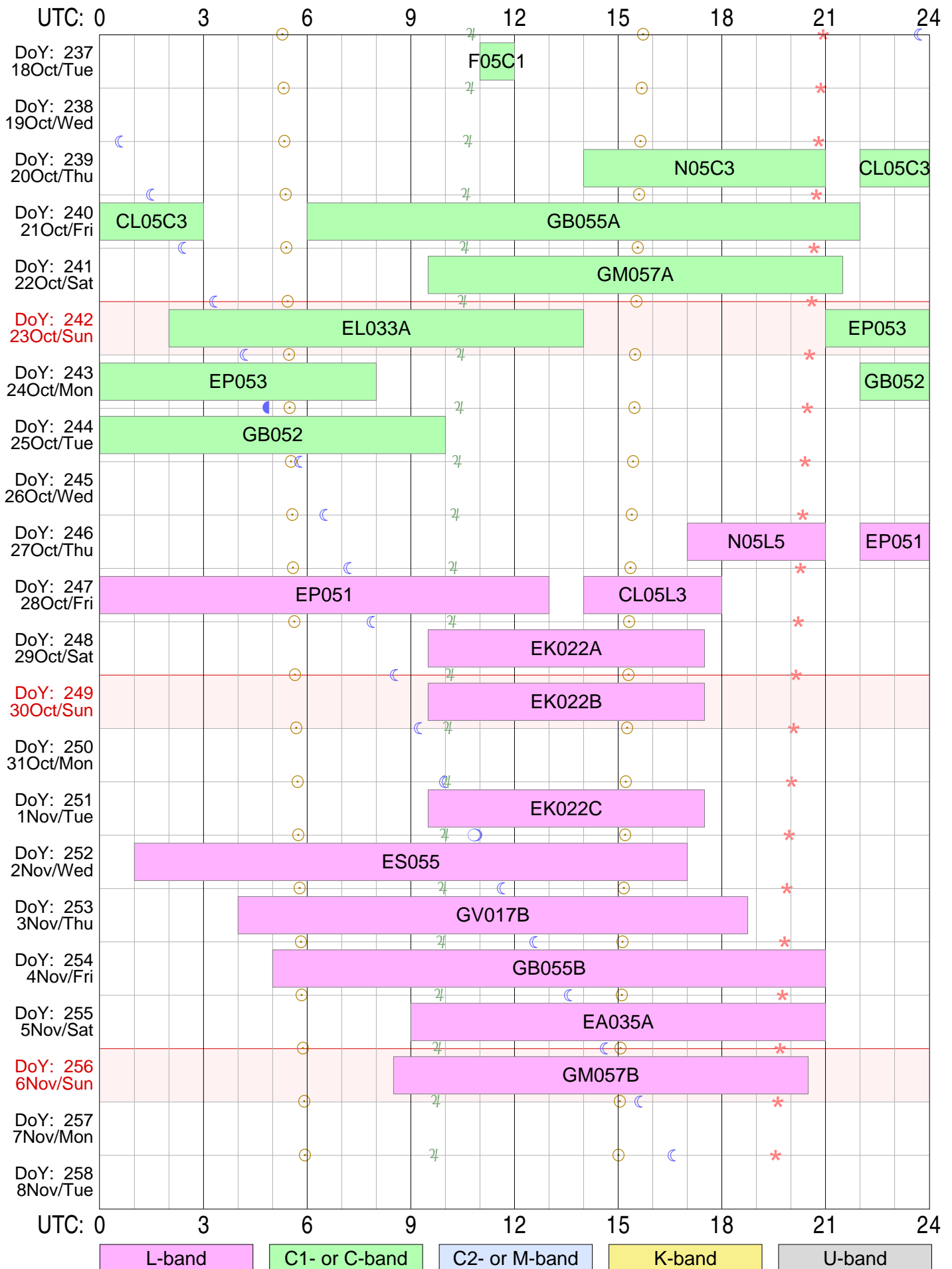
# EVN Session Jun 2005



Sky events: ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

*Total 161.7 hours in 18 experiments scheduled*

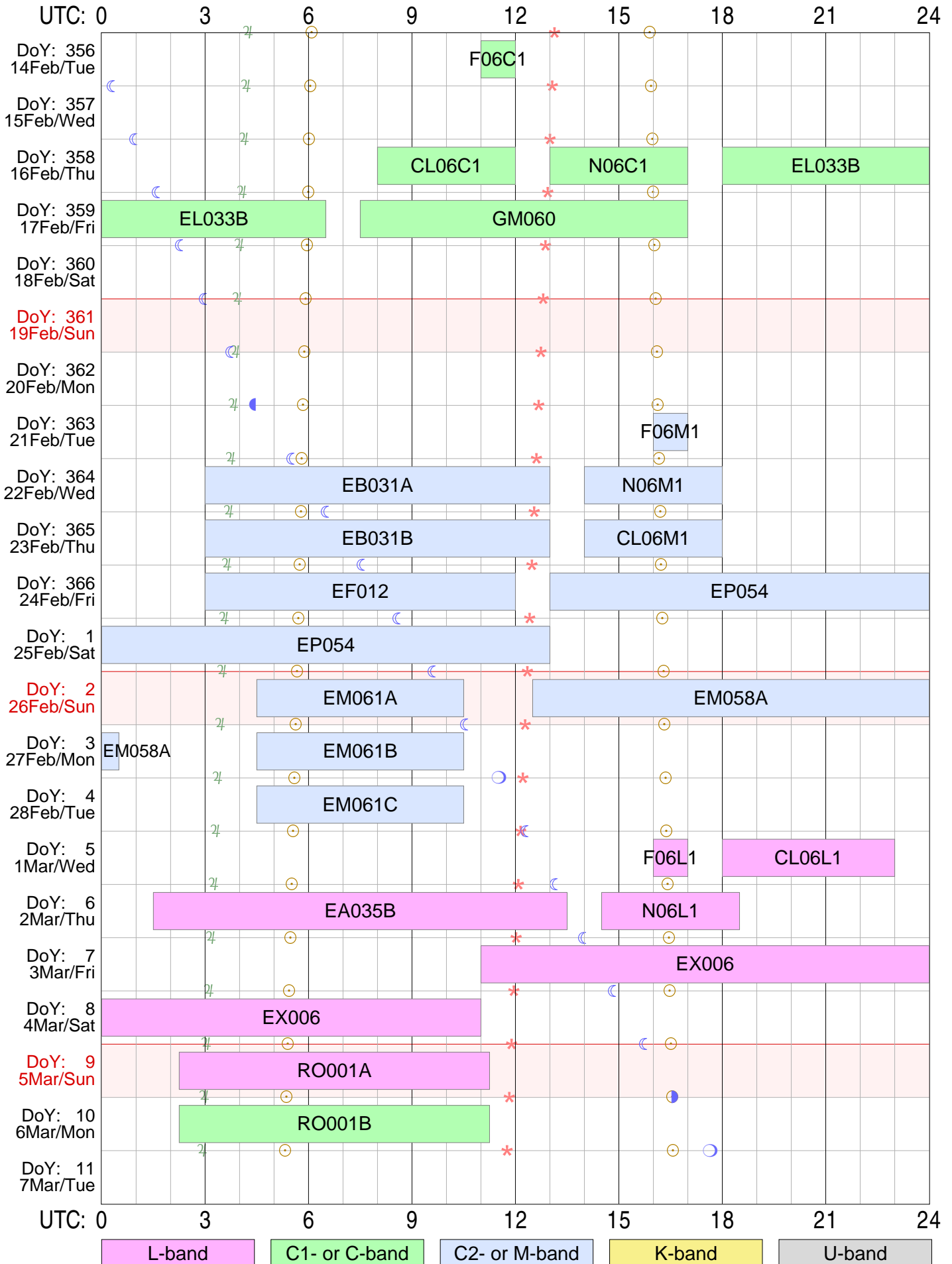
# EVN Session Oct/Nov 2005



Sky events:    ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

*Total 193.7 hours in 19 experiments scheduled*

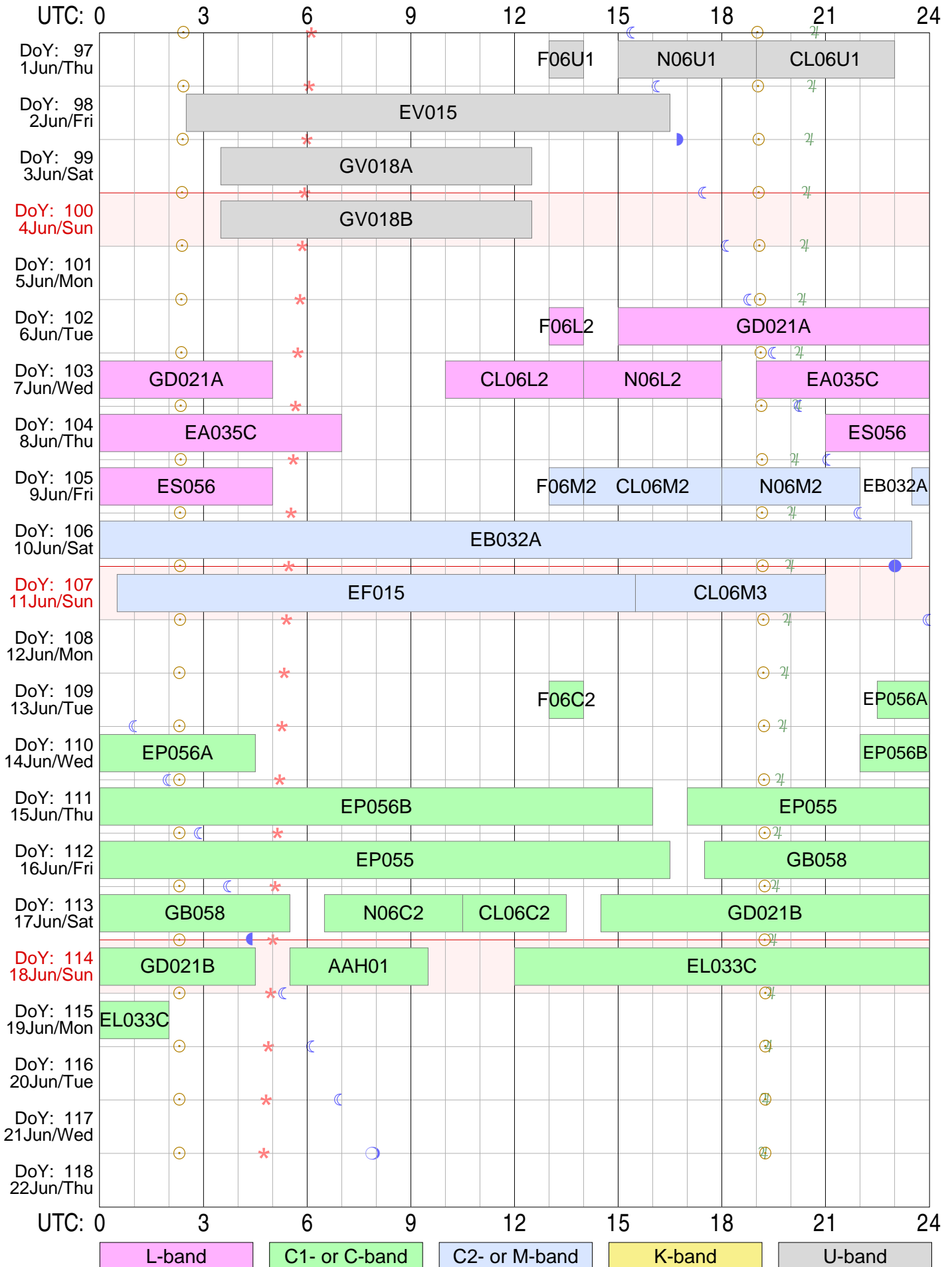
# EVN Session Feb/Mar 2006



Sky events: ○ Sunrise & sunset    ☾☽☾☽☾ Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

Total 187.0 hours in 23 experiments scheduled

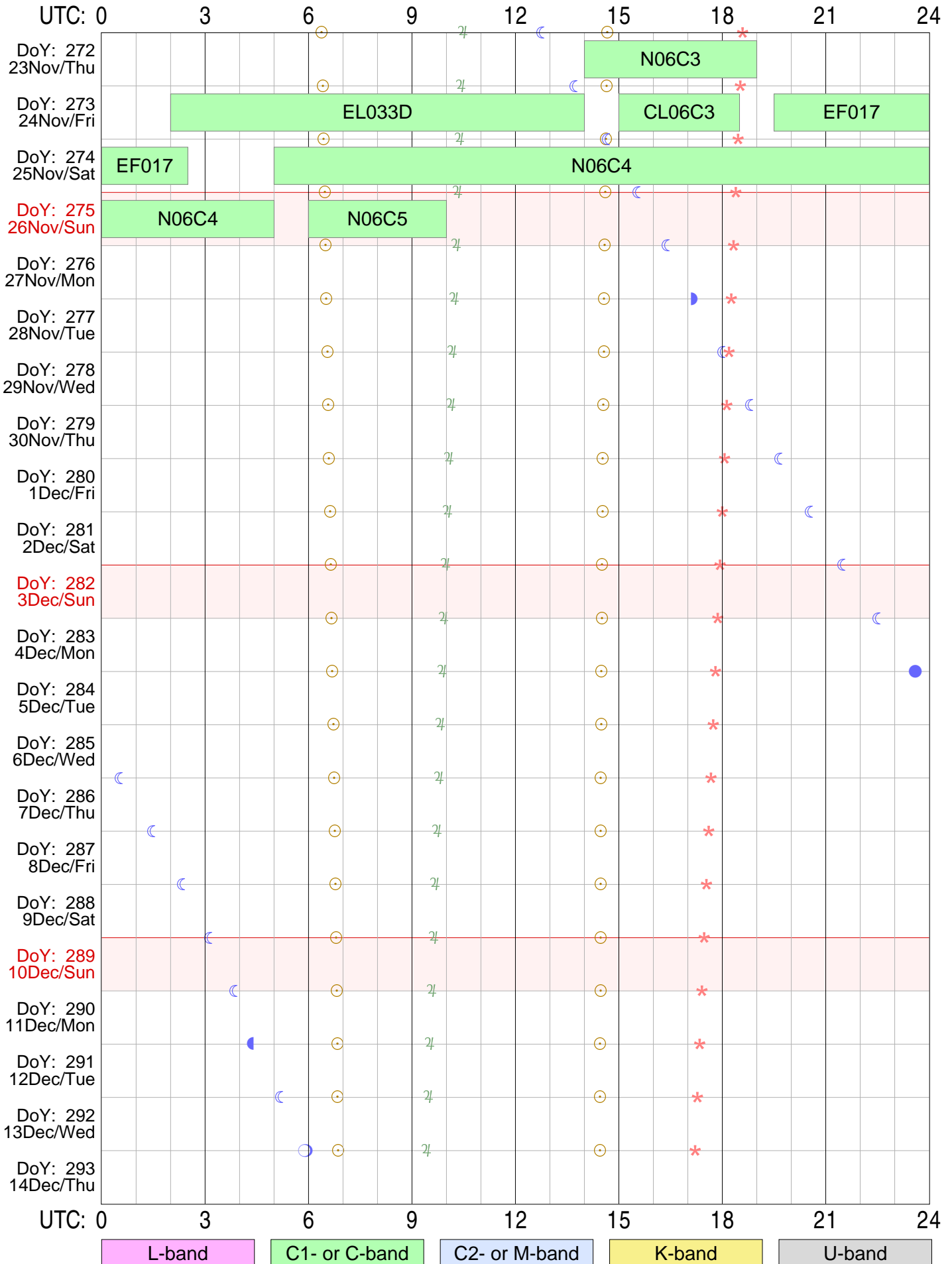
# EVN Session Jun 2006



Sky events: ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

*Total 237.0 hours in 28 experiments scheduled*

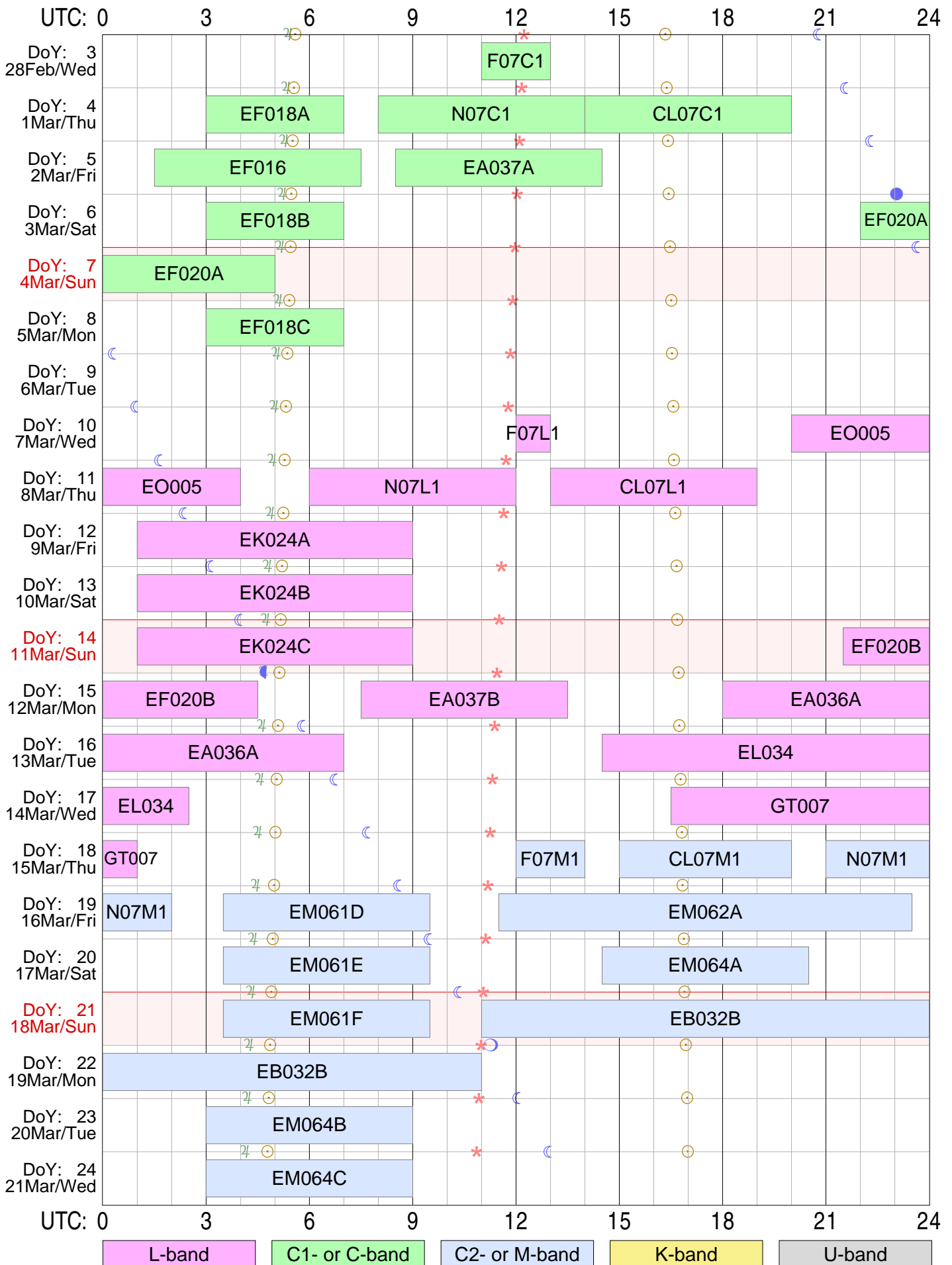
# EVN Session Nov 2006



Sky events:    ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

*Total 55.5 hours in 6 experiments scheduled*

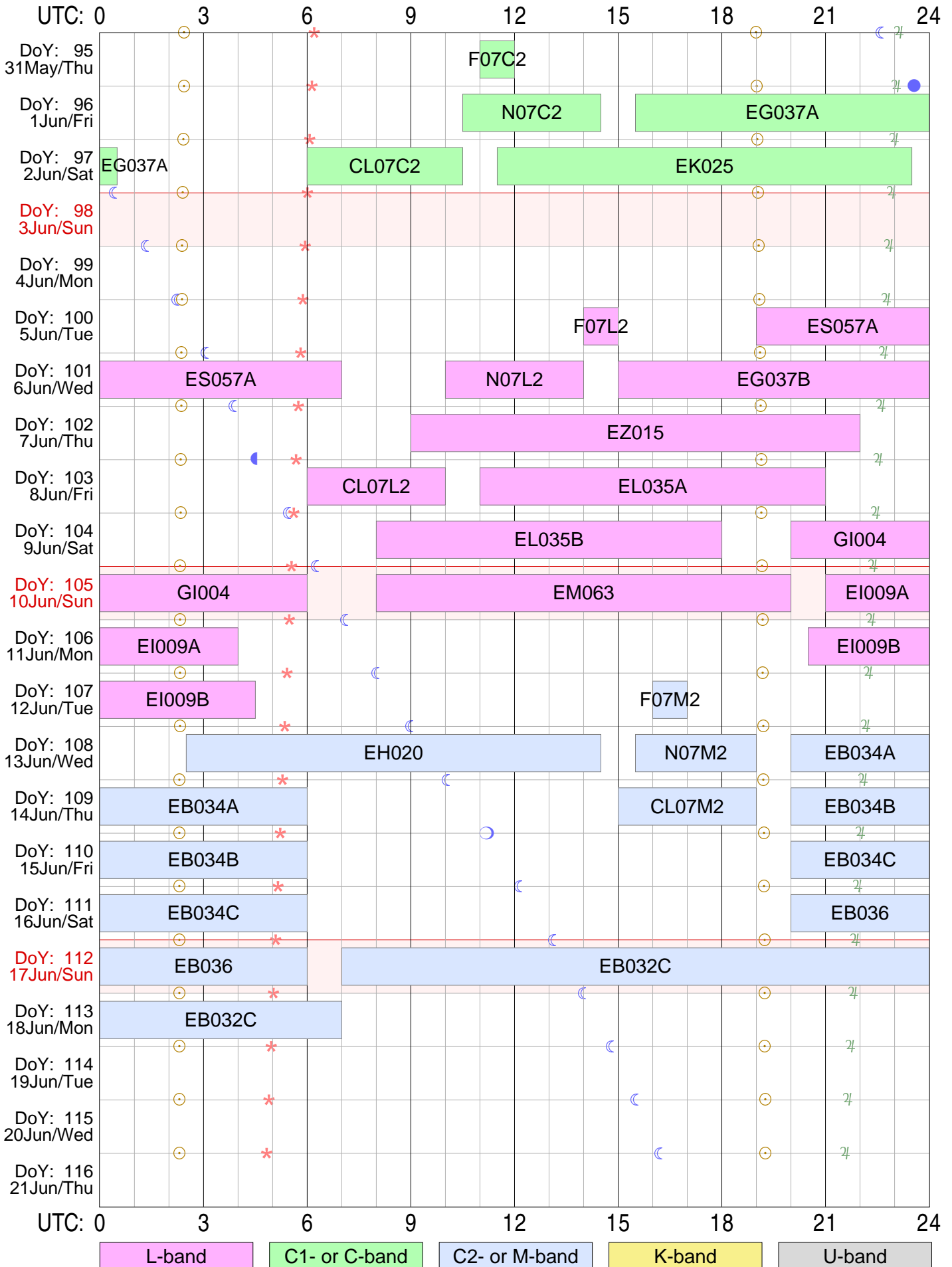
# EVN Session Feb/Mar 2007



Sky events: ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    ★ Transit of Aries (0h ST)

Total 220.5 hours in 32 experiments scheduled

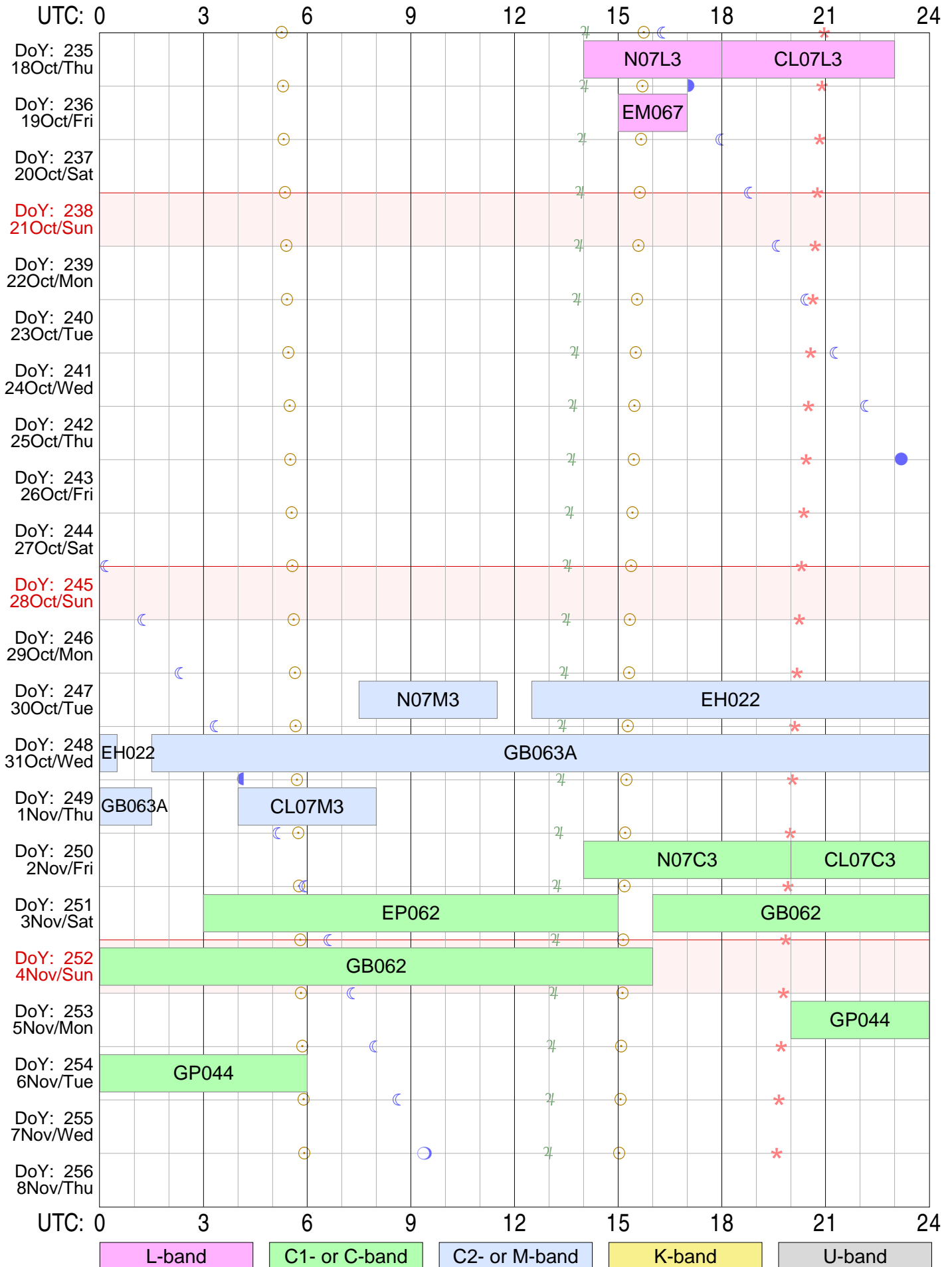
# EVN Session May/June 2007



Sky events: ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

Total 215.0 hours in 26 experiments scheduled

# EVN Session Oct/Nov 2007

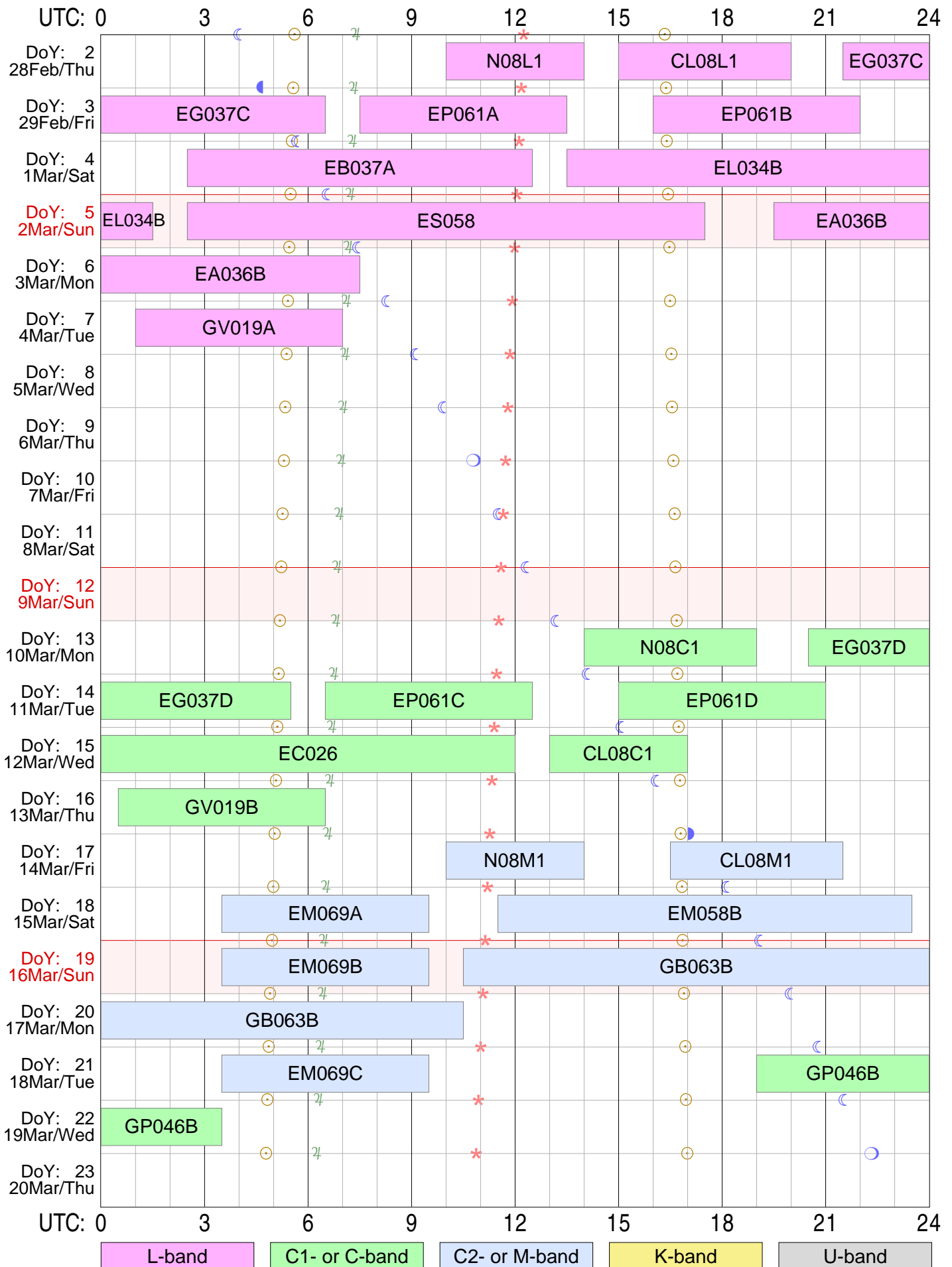


Sky events:    ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    ★ Transit of Aries (0h ST)

*Total 111.0 hours in 12 experiments scheduled*



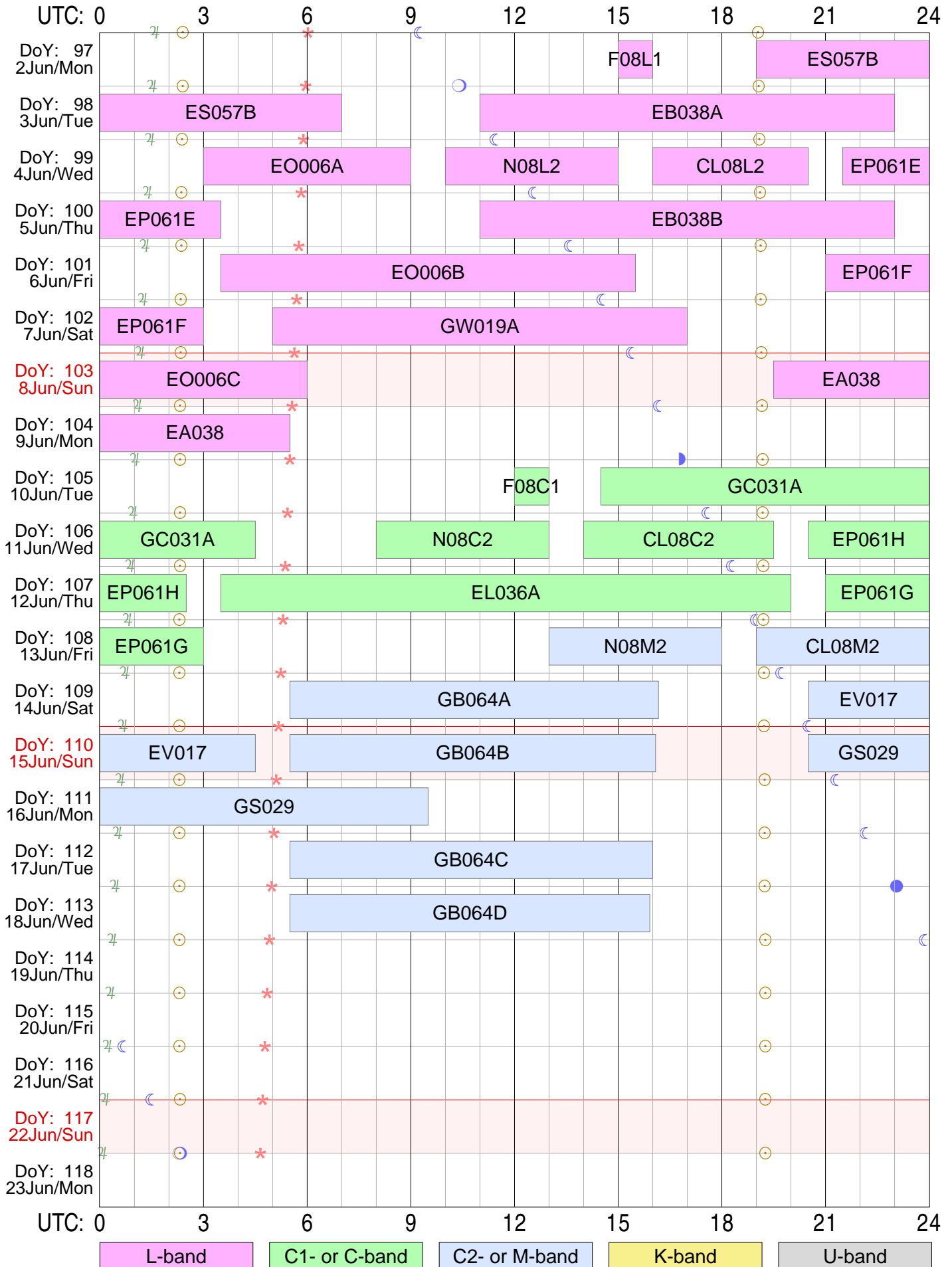
# EVN Session Feb/Mar 2008



Sky events: ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

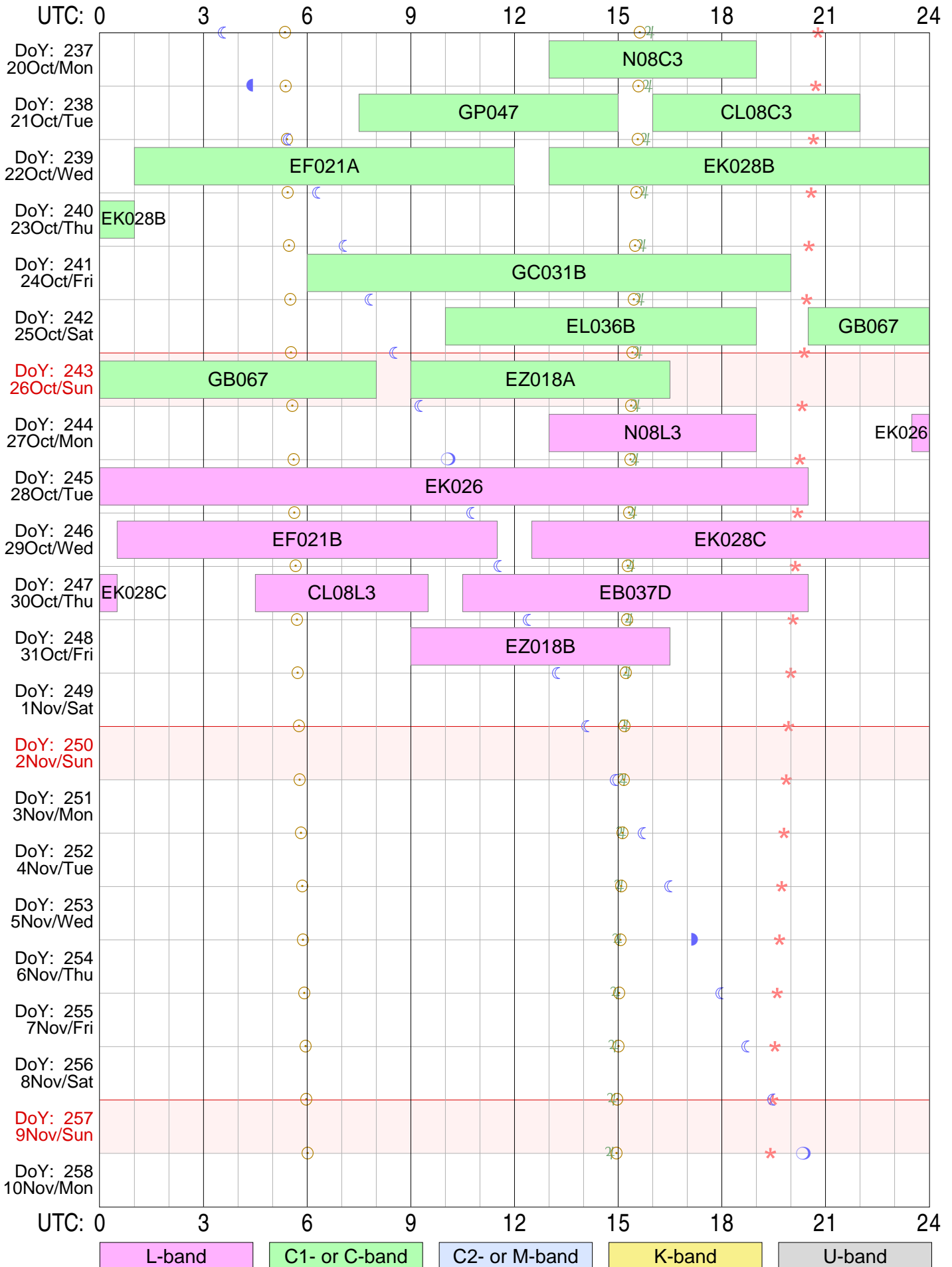
Total 204.5 hours in 25 experiments scheduled

# EVN Session Jun 2008



*Total 231.7 hours in 28 experiments scheduled*

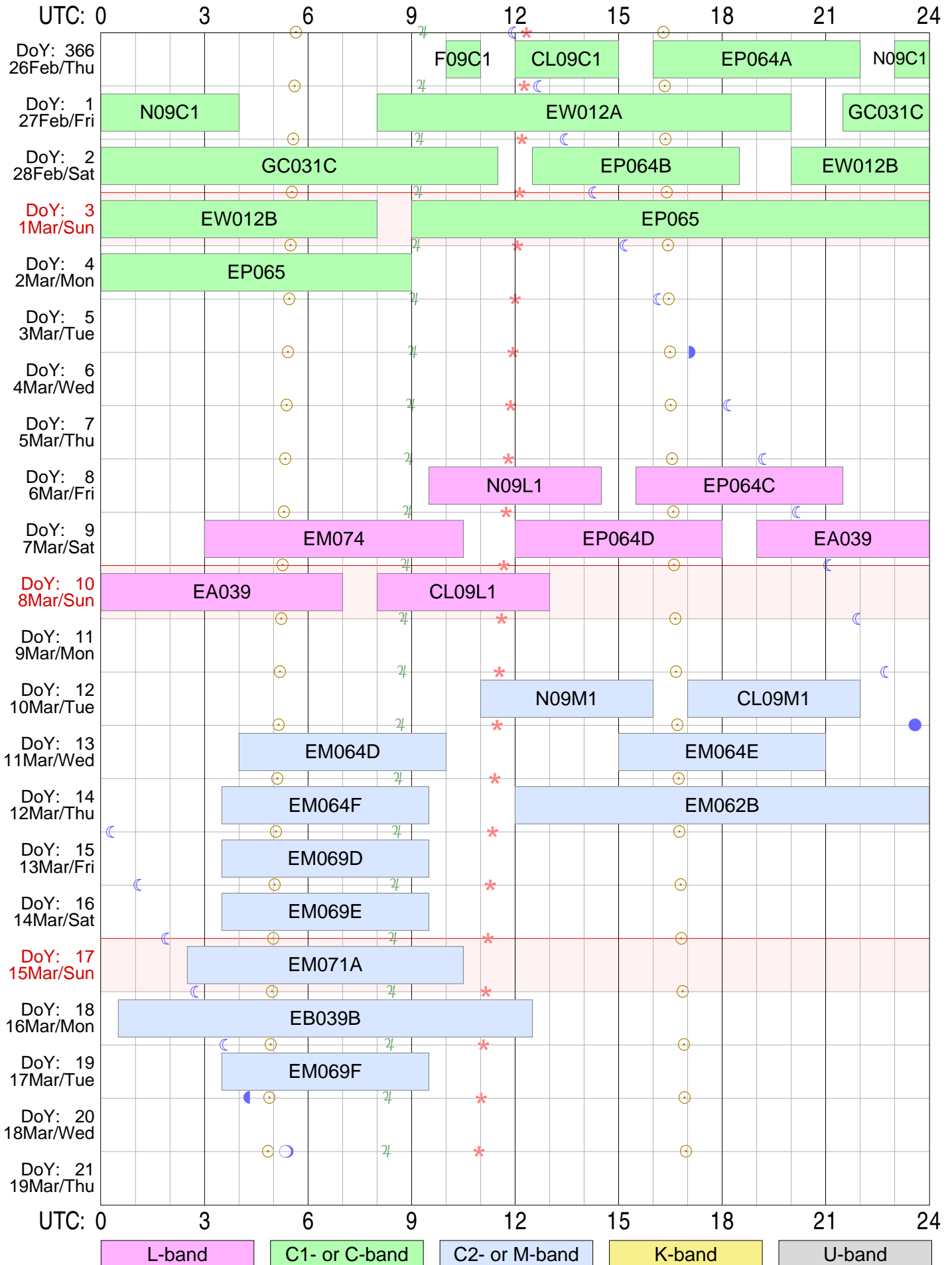
# EVN Session Oct 2008



Sky events: ☉ Sunrise & sunset ☾☽ Transit of Moon ♃ Transit of Jupiter \* Transit of Aries (0h ST)

Total 157.0 hours in 16 experiments scheduled

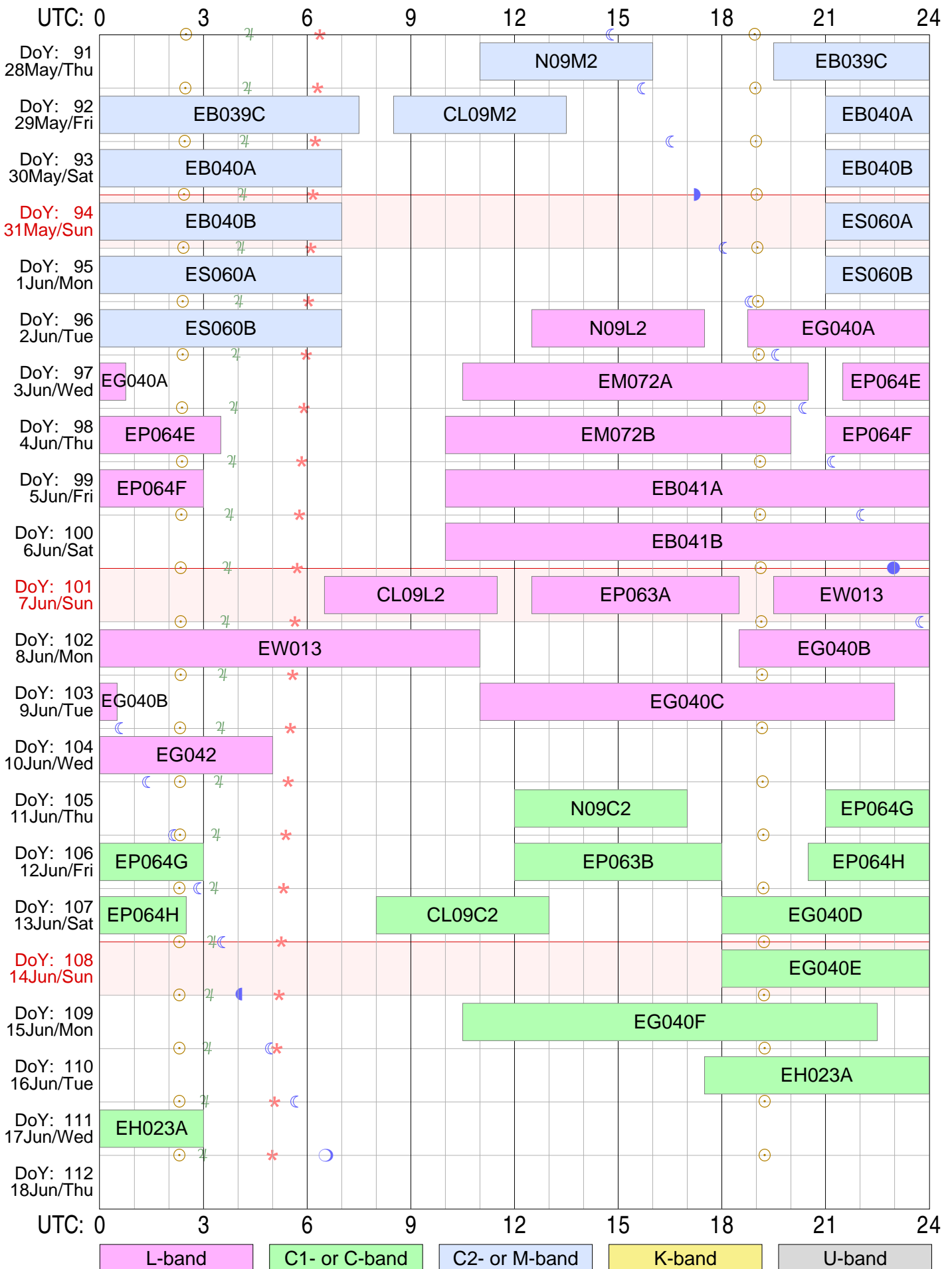
# EVN Session Feb/Mar 2009



Sky events: ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    ★ Transit of Aries (0h ST)

Total 202.5 hours in 26 experiments scheduled

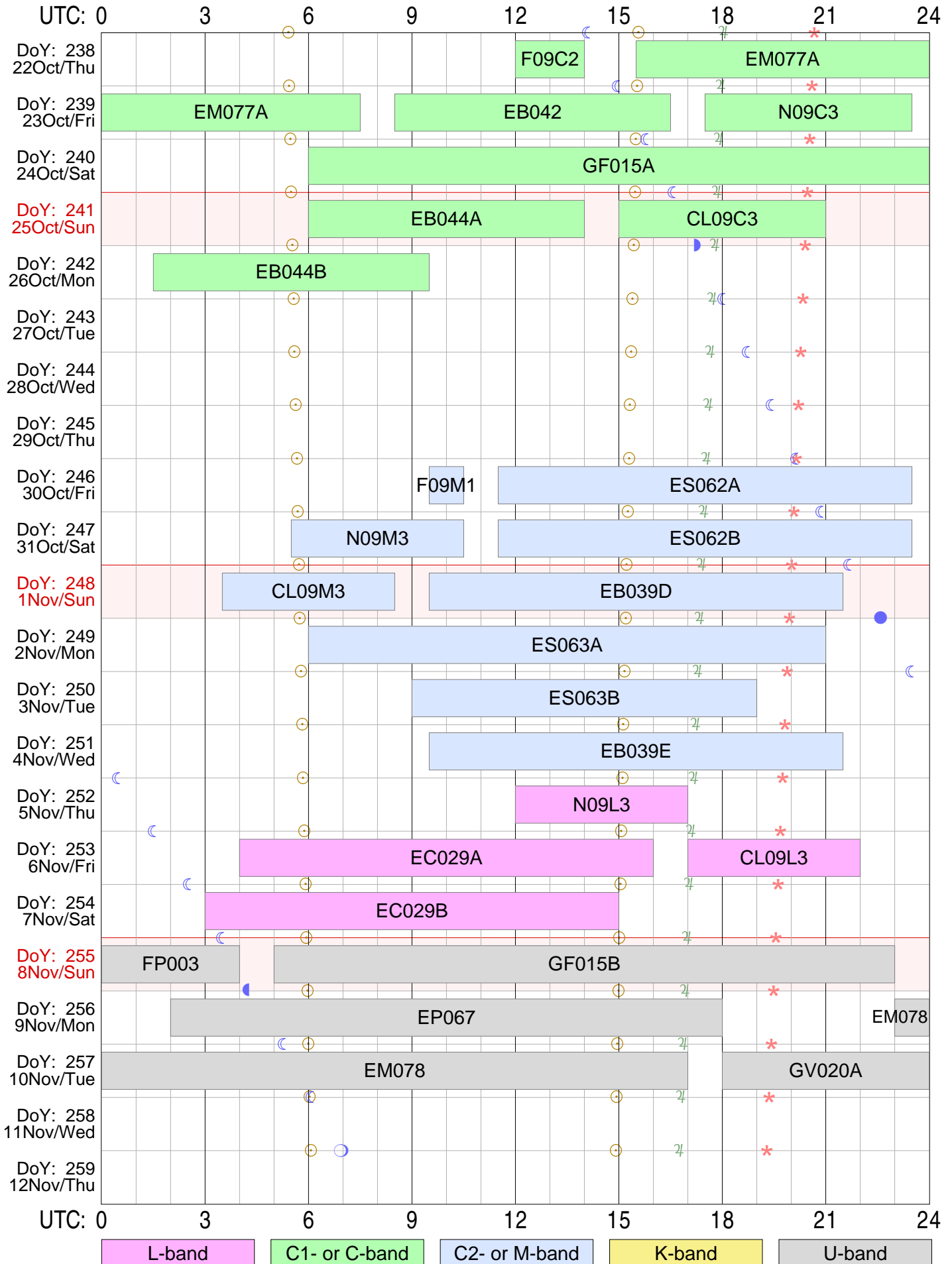
# EVN Session May/June 2009



Sky events: ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    ★ Transit of Aries (0h ST)

*Total 244.0 hours in 30 experiments scheduled*

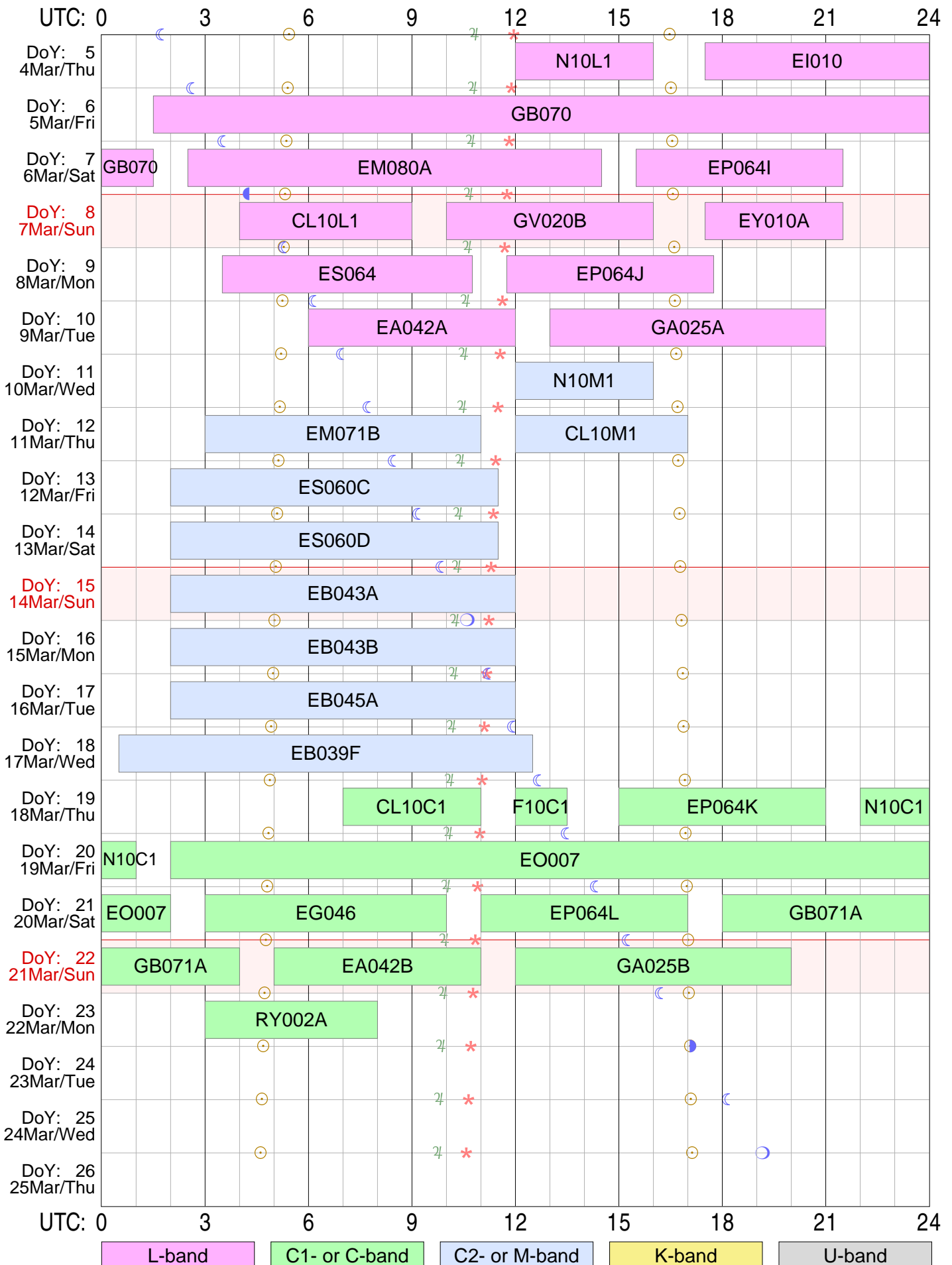
# EVN Session Oct/Nov 2009



Sky events: ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

Total 252.0 hours in 26 experiments scheduled

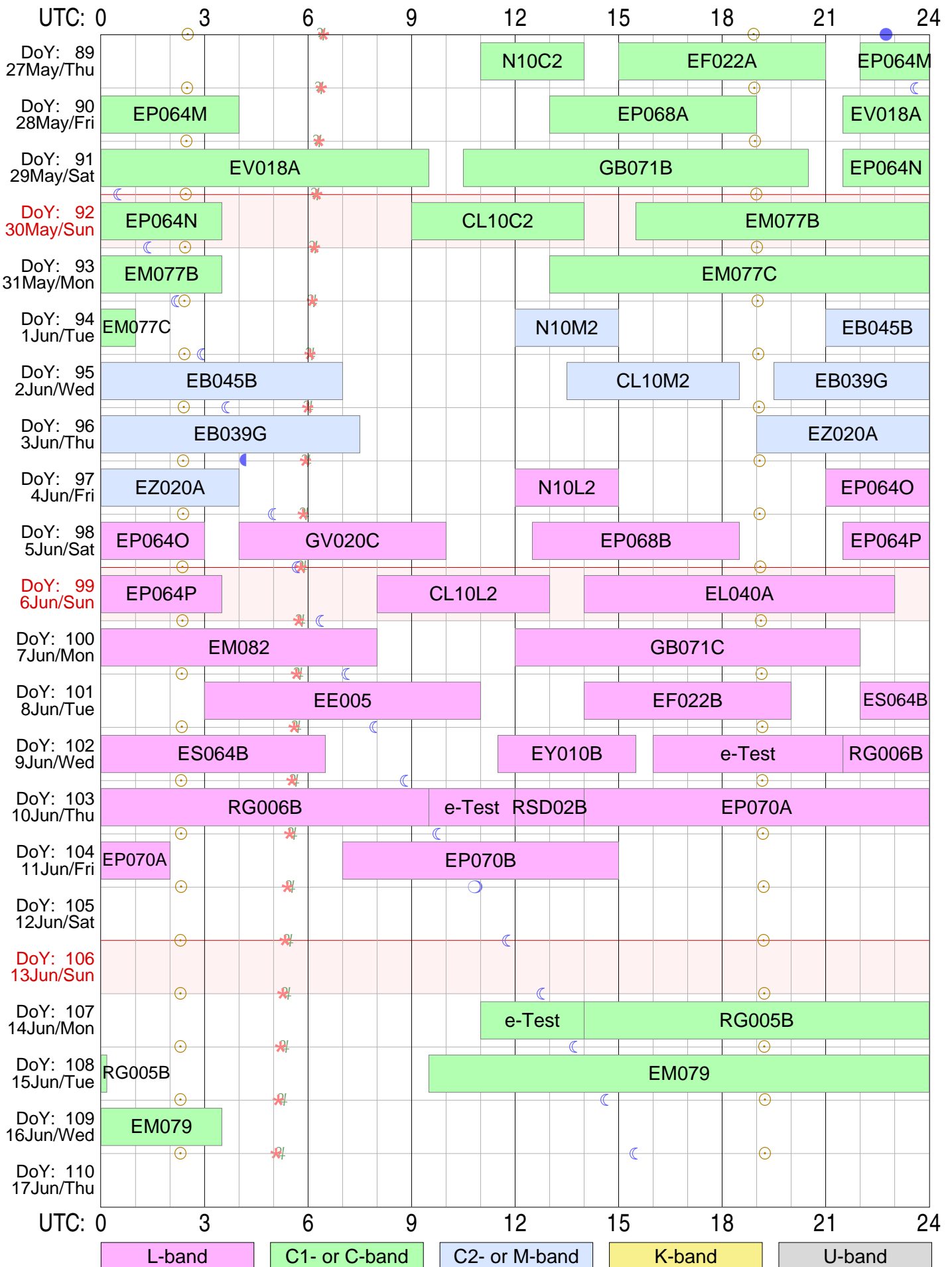
# EVN Session Mar 2010



Sky events: ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    ★ Transit of Aries (0h ST)

Total 253.3 hours in 32 experiments scheduled

# EVN Session May/June 2010

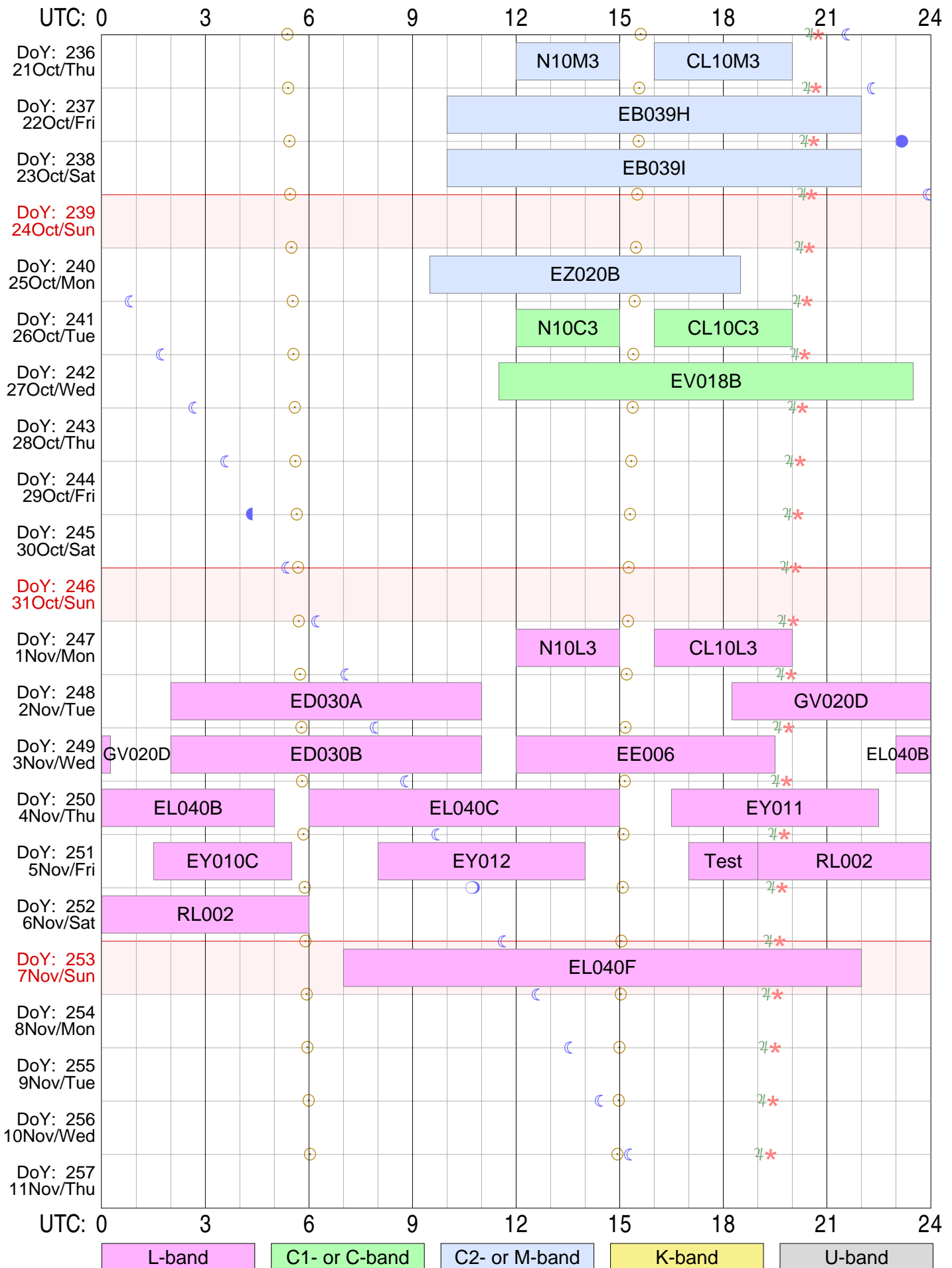


Sky events: ☉ Sunrise & sunset ☾☽ Transit of Moon ♃ Transit of Jupiter \* Transit of Aries (0h ST)

Total 275.7 hours in 37 experiments scheduled

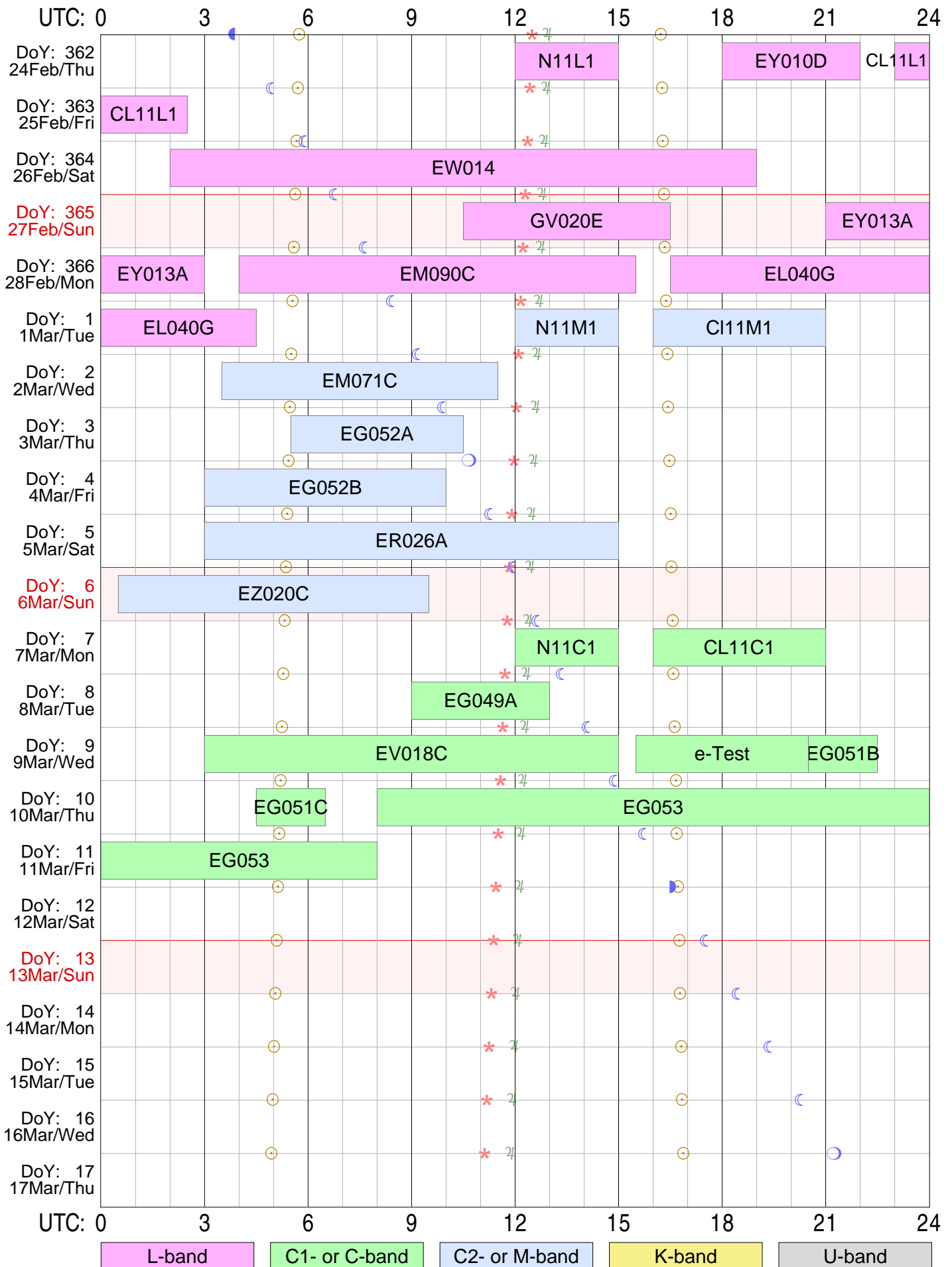


# EVN Session Oct/Nov 2010



Total 156.5 hours in 22 experiments scheduled

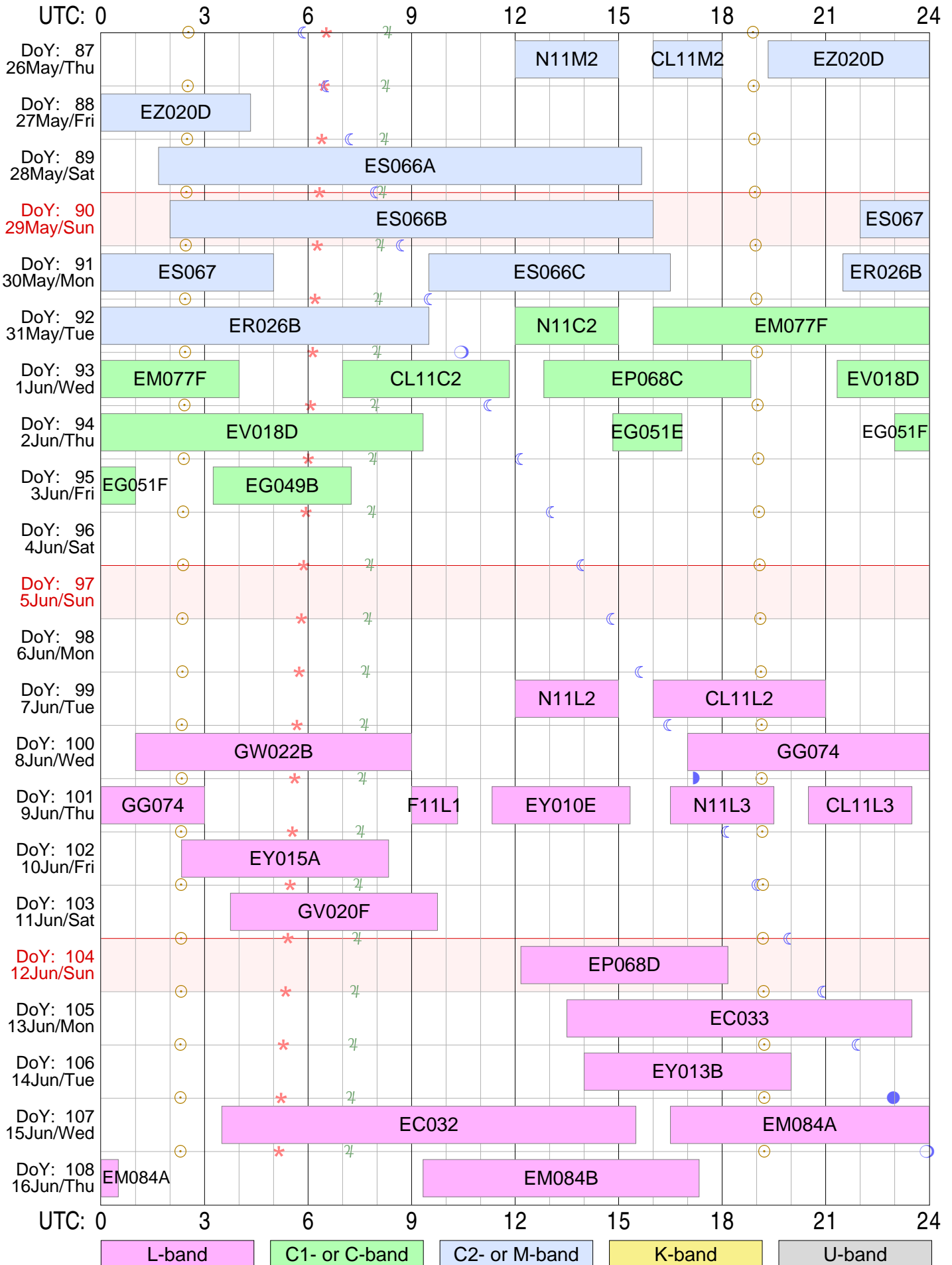
# EVN Session Feb/Mar 2011



Sky events: ☉ Sunrise & sunset ☾☽ Transit of Moon ♃ Transit of Jupiter \* Transit of Aries (0h ST)

Total 193.0 hours in 23 experiments scheduled

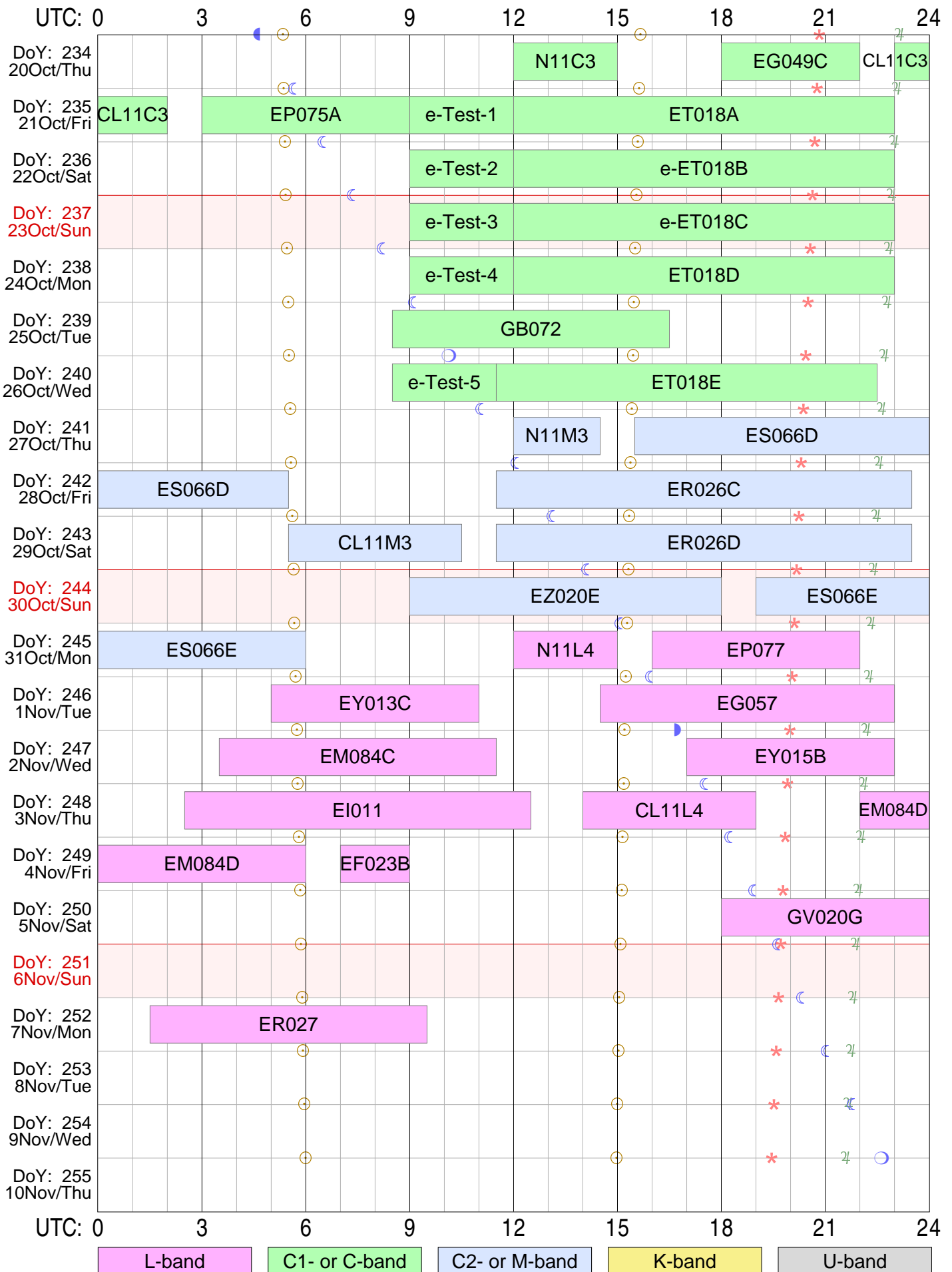
# EVN Session May/June 2011



Sky events: ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

Total 213.2 hours in 32 experiments scheduled

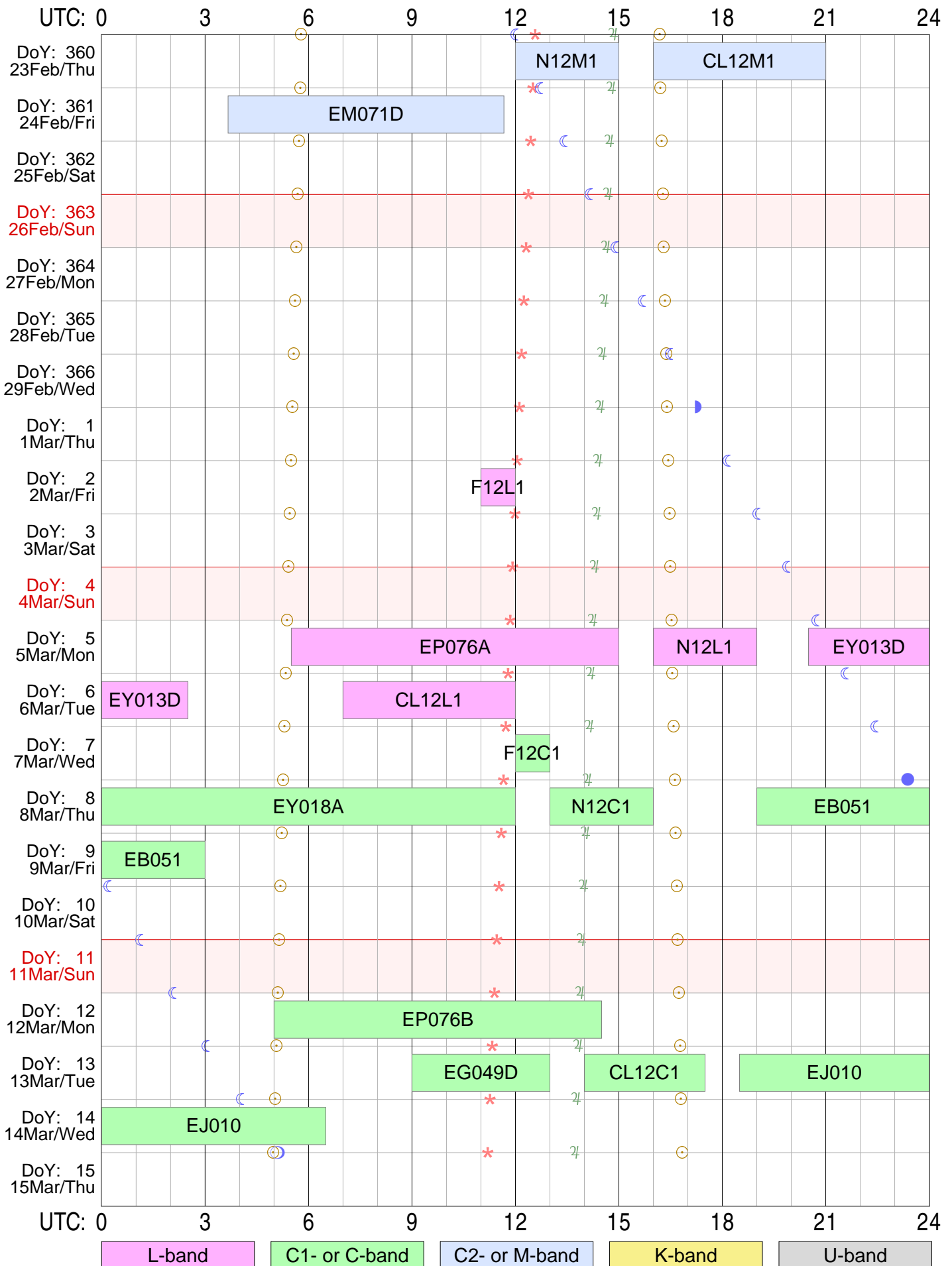
# EVN Session Oct/Nov 2011



Sky events: ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

*Total 236.0 hours in 34 experiments scheduled*

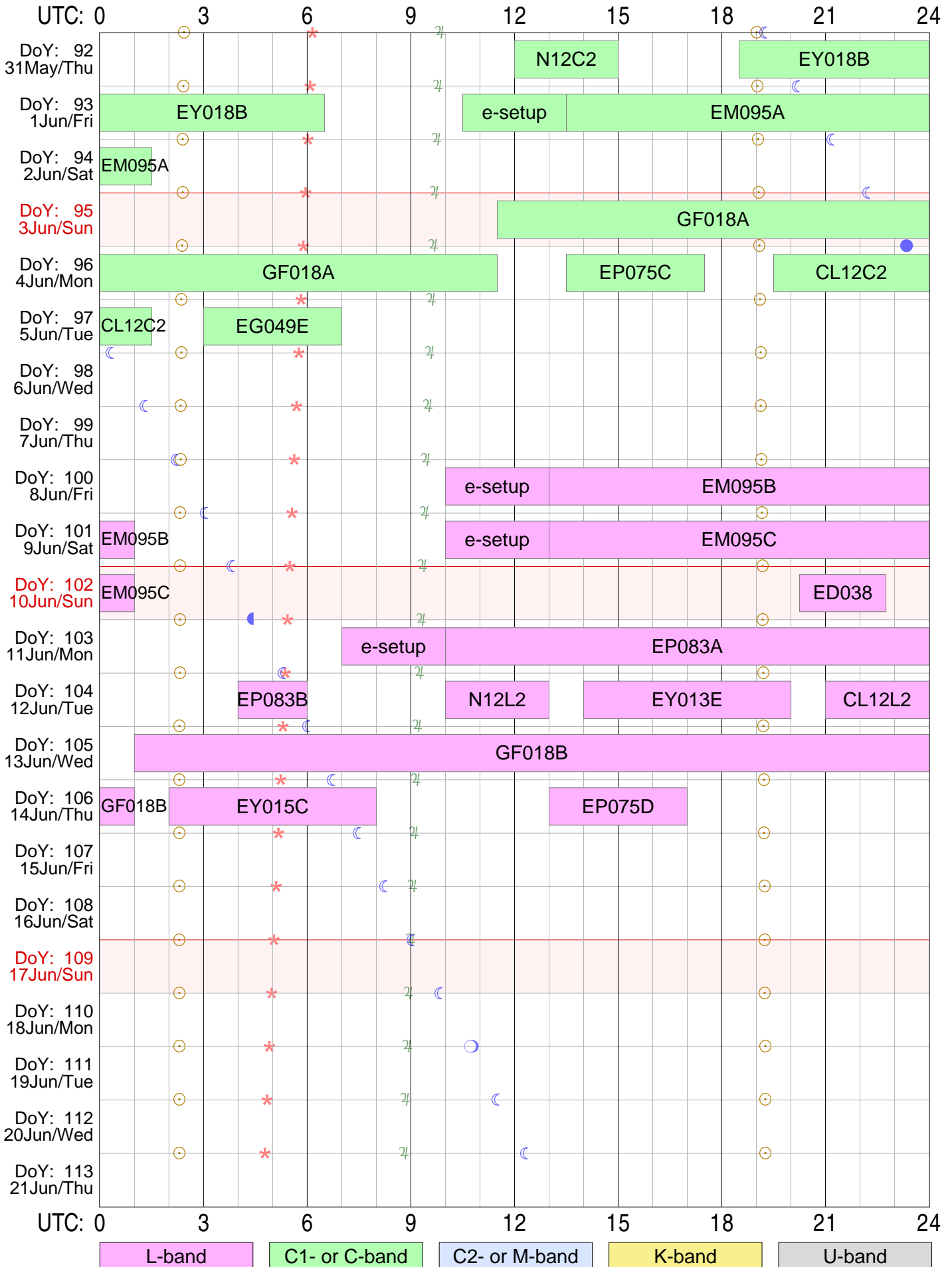
# EVN Session Feb/Mar 2012



Sky events: ☉ Sunrise & sunset ☾☽ Transit of Moon ♃ Transit of Jupiter ★ Transit of Aries (0h ST)

Total 93.5 hours in 16 experiments scheduled

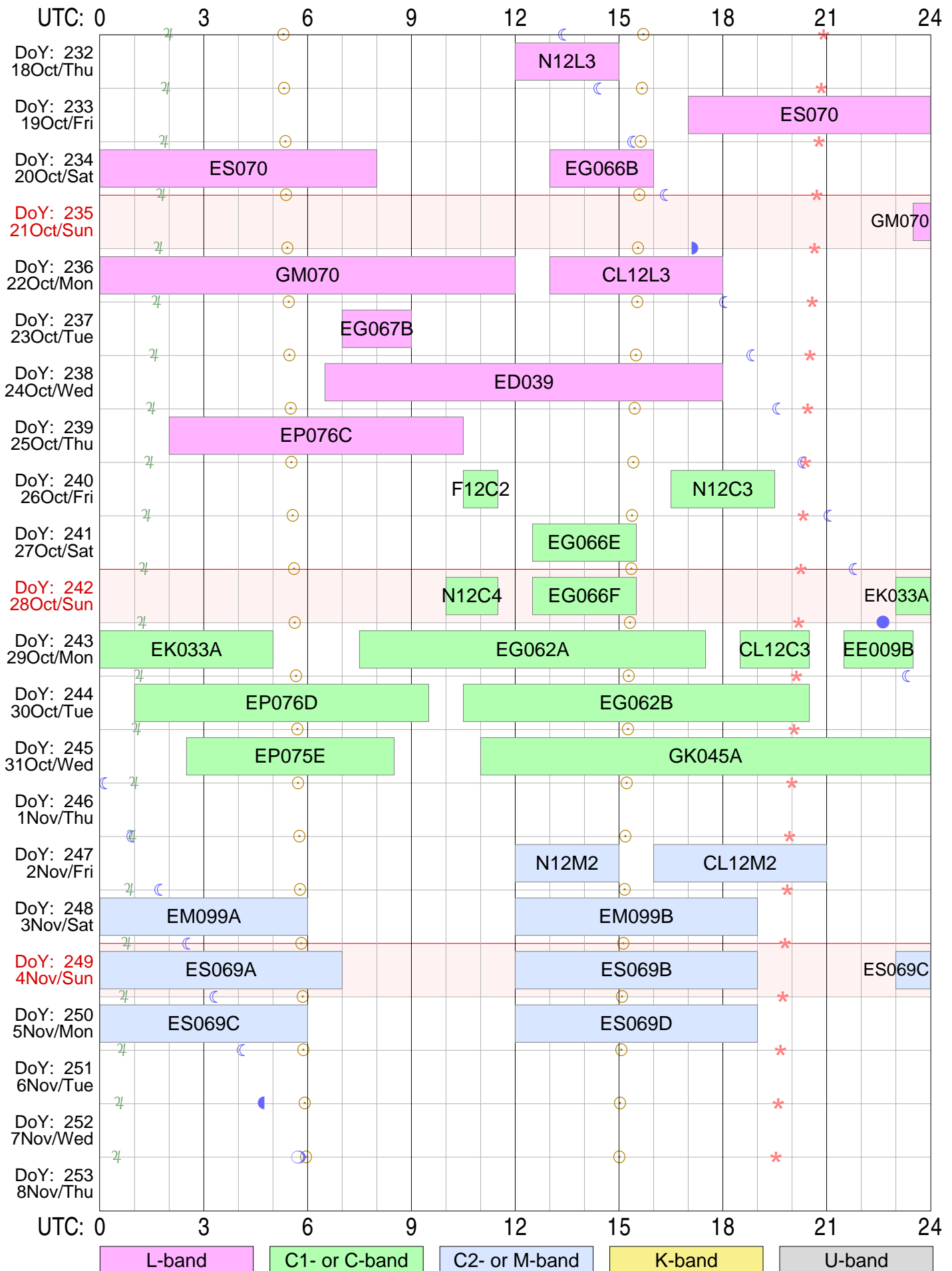
# EVN Session May/June 2012



Sky events: ☉ Sunrise & sunset ☾☽ Transit of Moon ♃ Transit of Jupiter \* Transit of Aries (0h ST)

Total 165.5 hours in 22 experiments scheduled

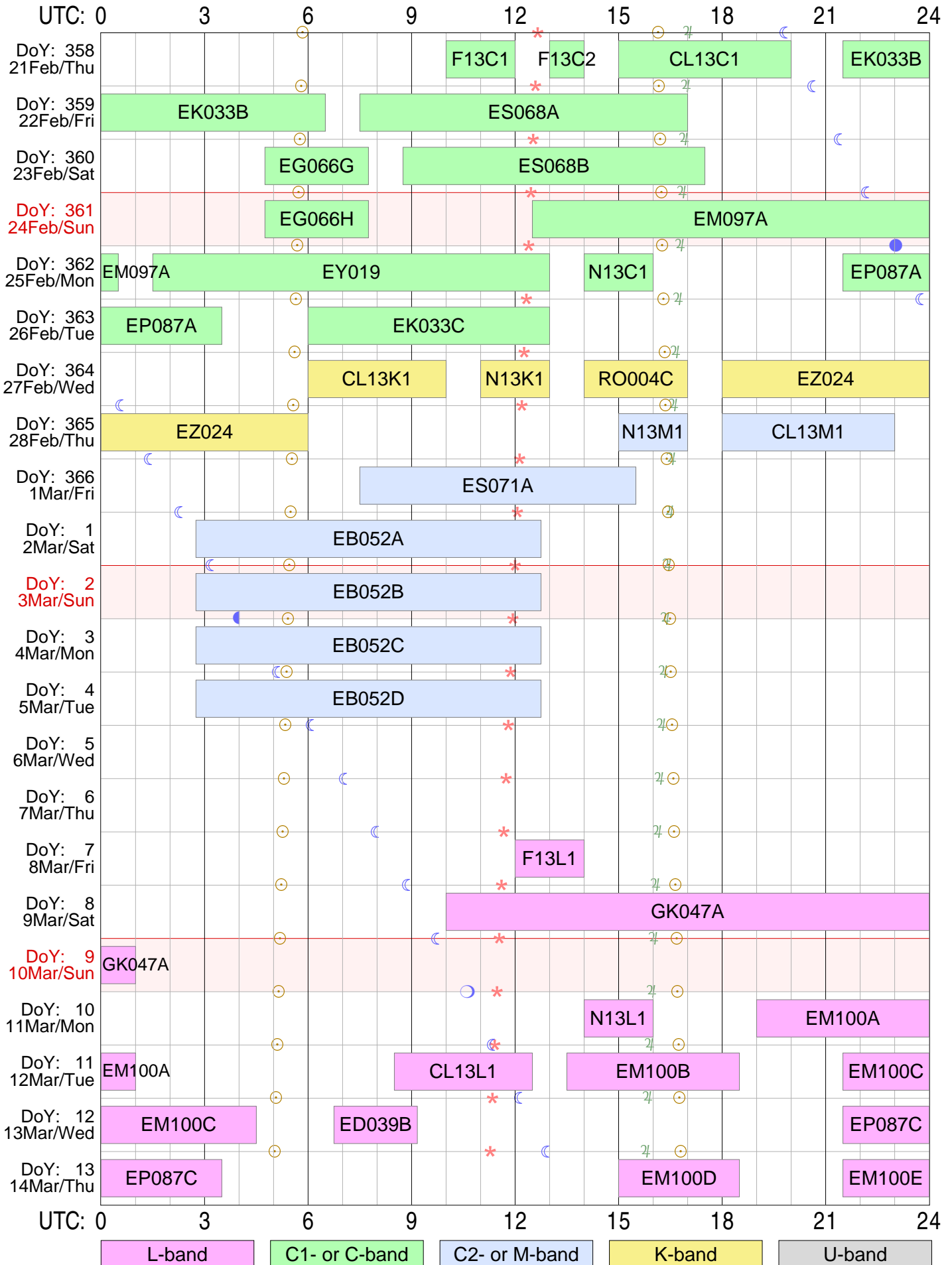
# EVN Session Oct/Nov 2012



Sky events: ☉ Sunrise & sunset ☾☽ Transit of Moon ♃ Transit of Jupiter \* Transit of Aries (0h ST)

Total 178.5 hours in 29 experiments scheduled

# EVN Session Feb/Mar 2013

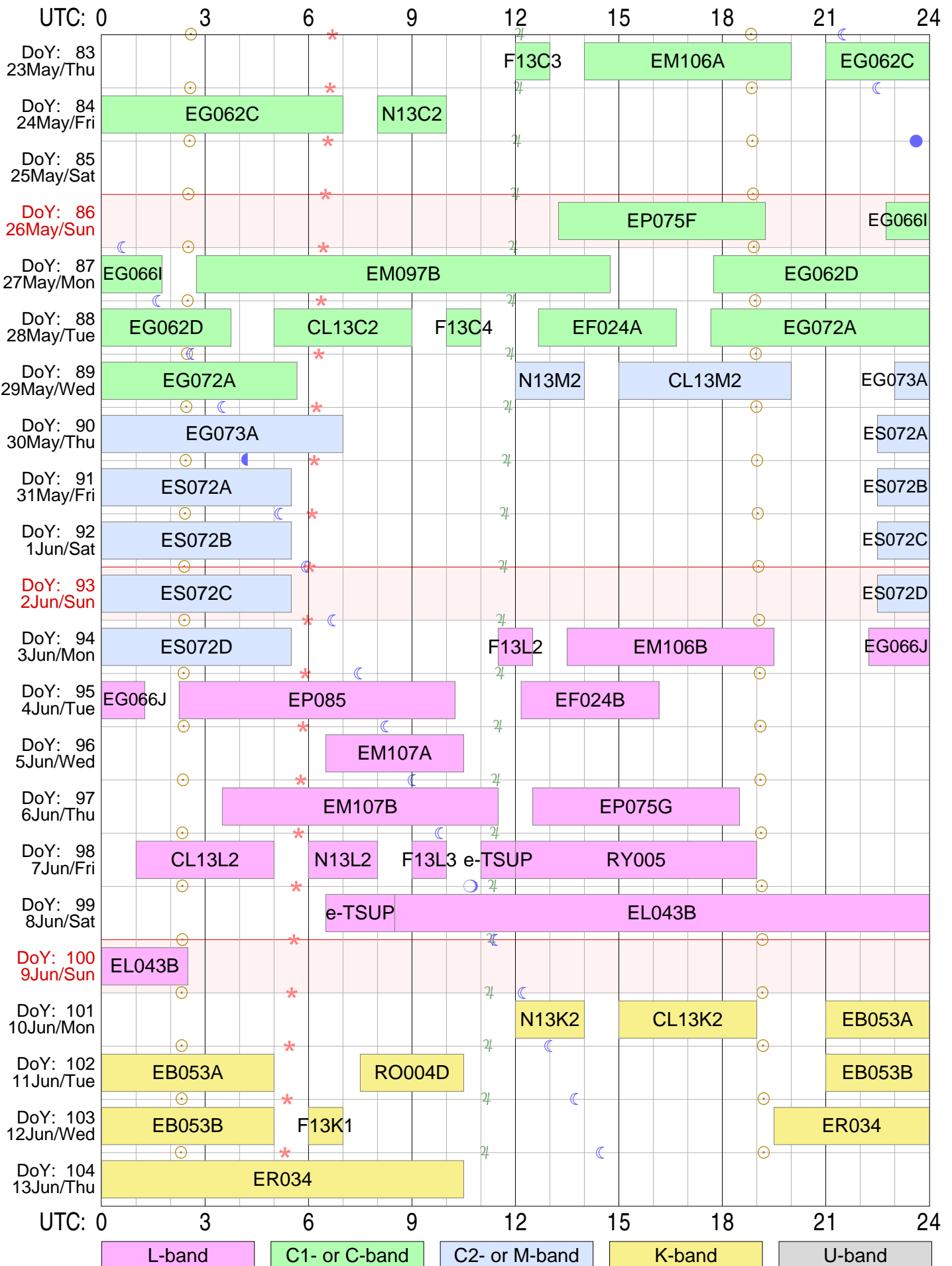


Sky events: ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

*Total 211.2 hours in 35 experiments scheduled*



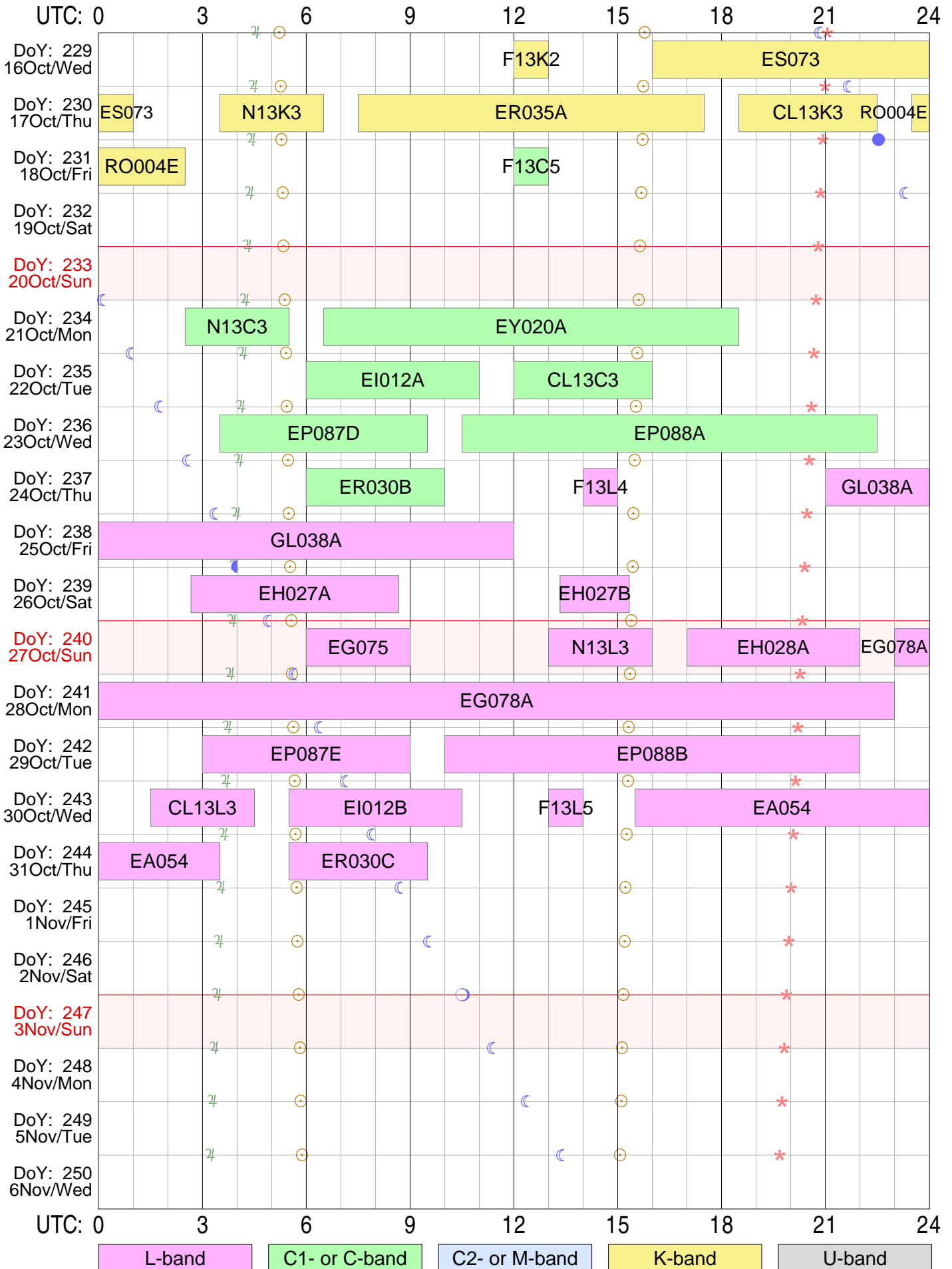
# EVN Session May/June 2013



Sky events:    ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

*Total 230.0 hours in 41 experiments scheduled*

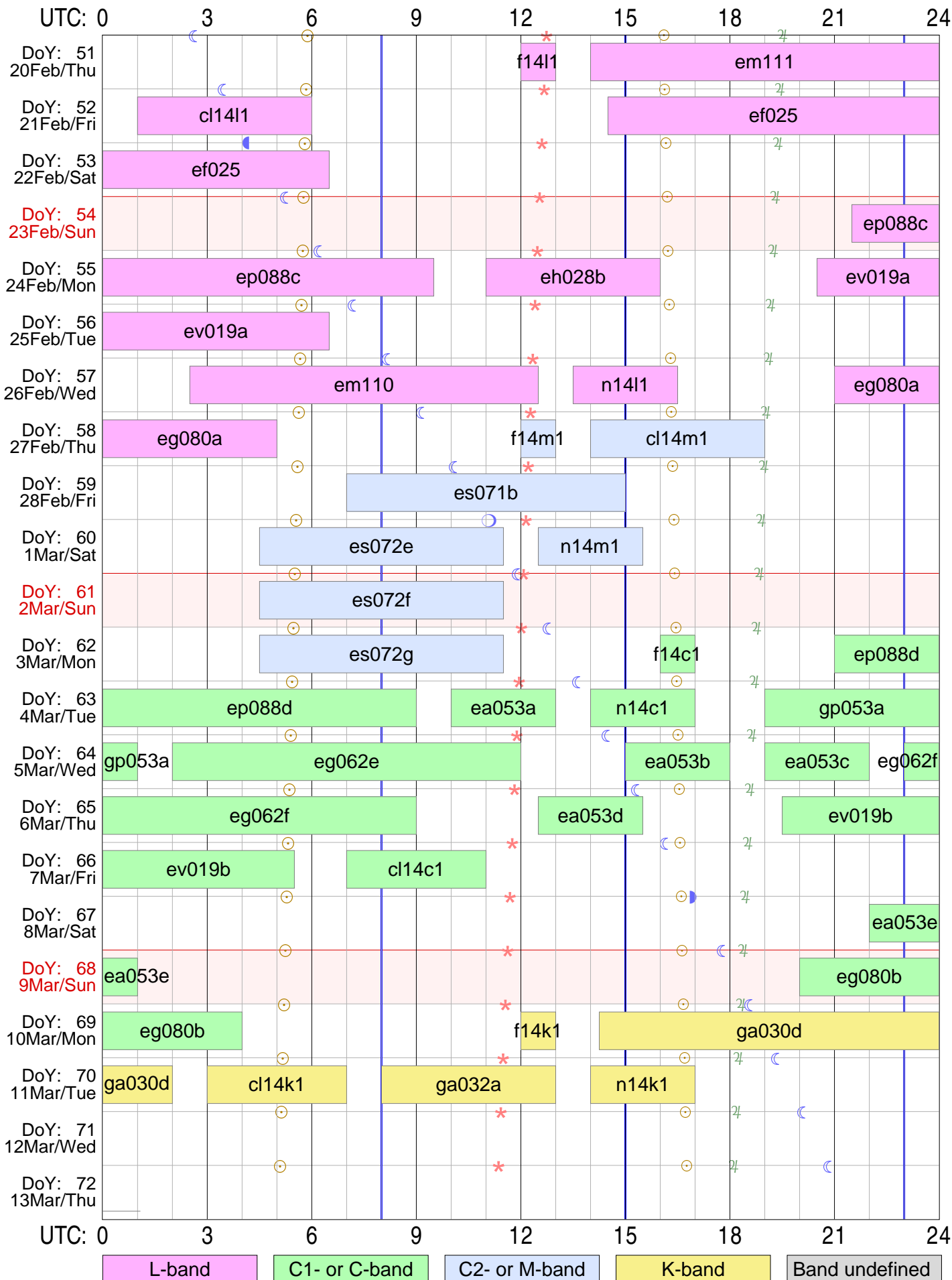
# EVN Session Oct 2013



Sky events:    ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    ★ Transit of Aries (0h ST)

*Total 179.0 hours in 29 experiments scheduled*

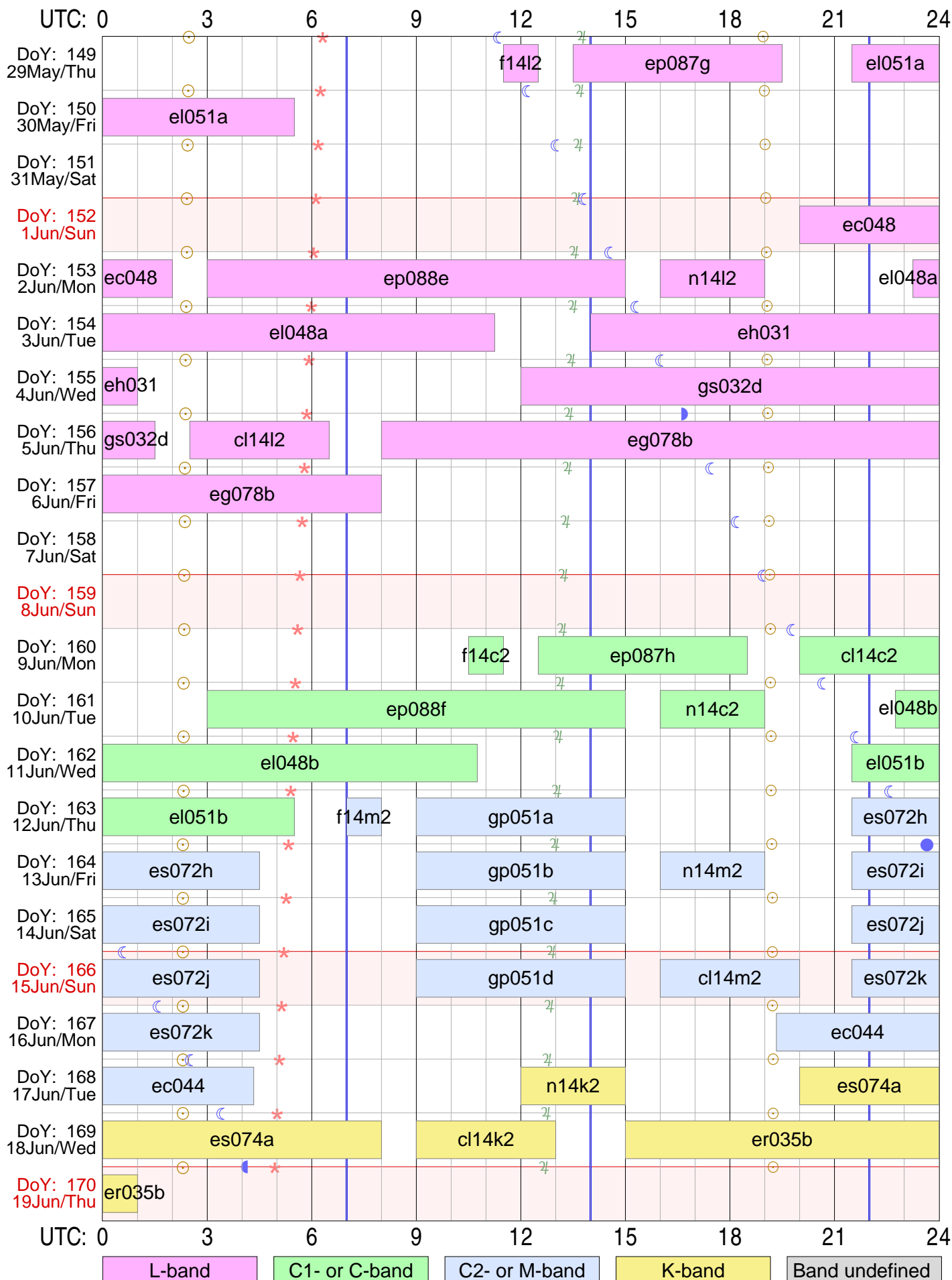
# Tr VLBI plan for Feb/Mar 2014



Sky events at Tr: ☉ Sunrise & sunset ☾☽☾☽☾ Transit of Moon ♃ Transit of Jupiter \* Transit of Aries (0h ST)  
 Vertical lines in blue mark operator shift times at Tr *Total observing time: 221.8 hours in 36 experiments scheduled*

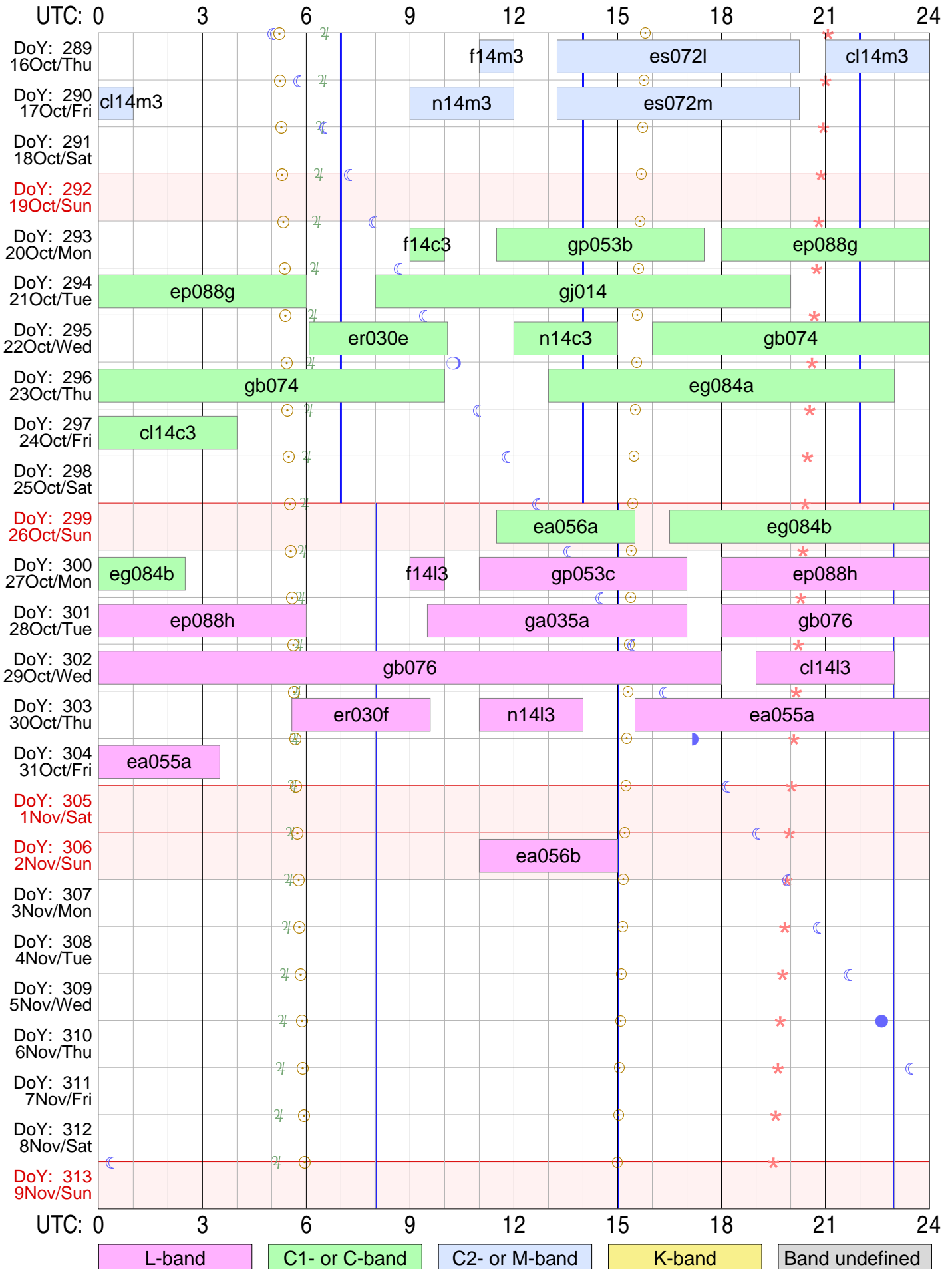
Version: 2015.02.09

# Tr VLBI plan for May/June 2014



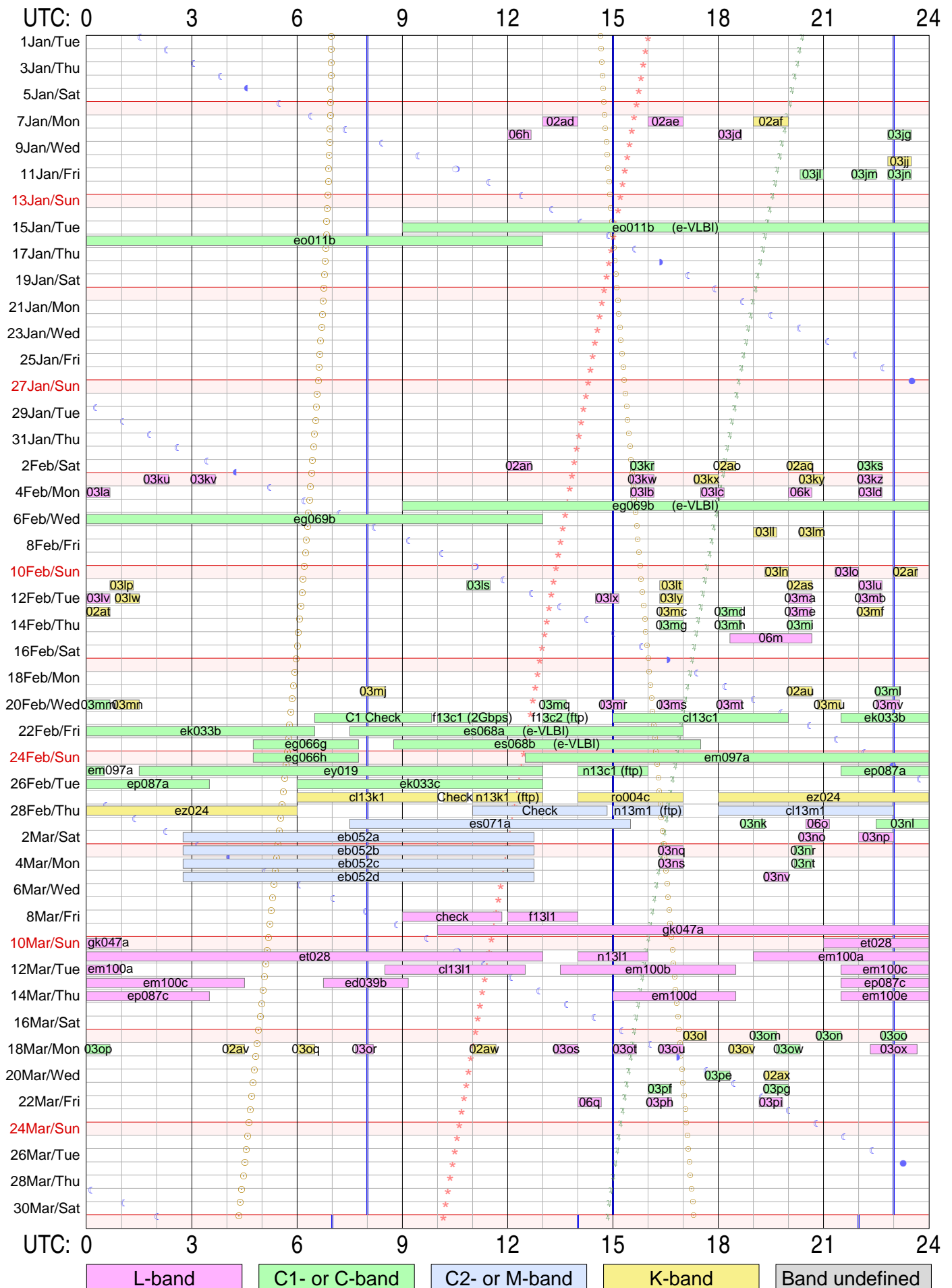
Sky events at Tr: ☉ Sunrise & sunset ☾☽☾☽☾ Transit of Moon ♃ Transit of Jupiter \* Transit of Aries (0h ST)  
 Vertical lines in blue mark operator shift times at Tr Total observing time: 244.5 hours in 34 experiments scheduled

# Tr VLBI plan for Oct/Nov 2014



Sky events at Tr: ☉ Sunrise & sunset    ☾☽ Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)  
 Vertical lines in blue mark operator shift times at Tr    Total observing time: 183.5 hours in 26 experiments scheduled

# Tr VLBI plan for Jan-Mar 2013

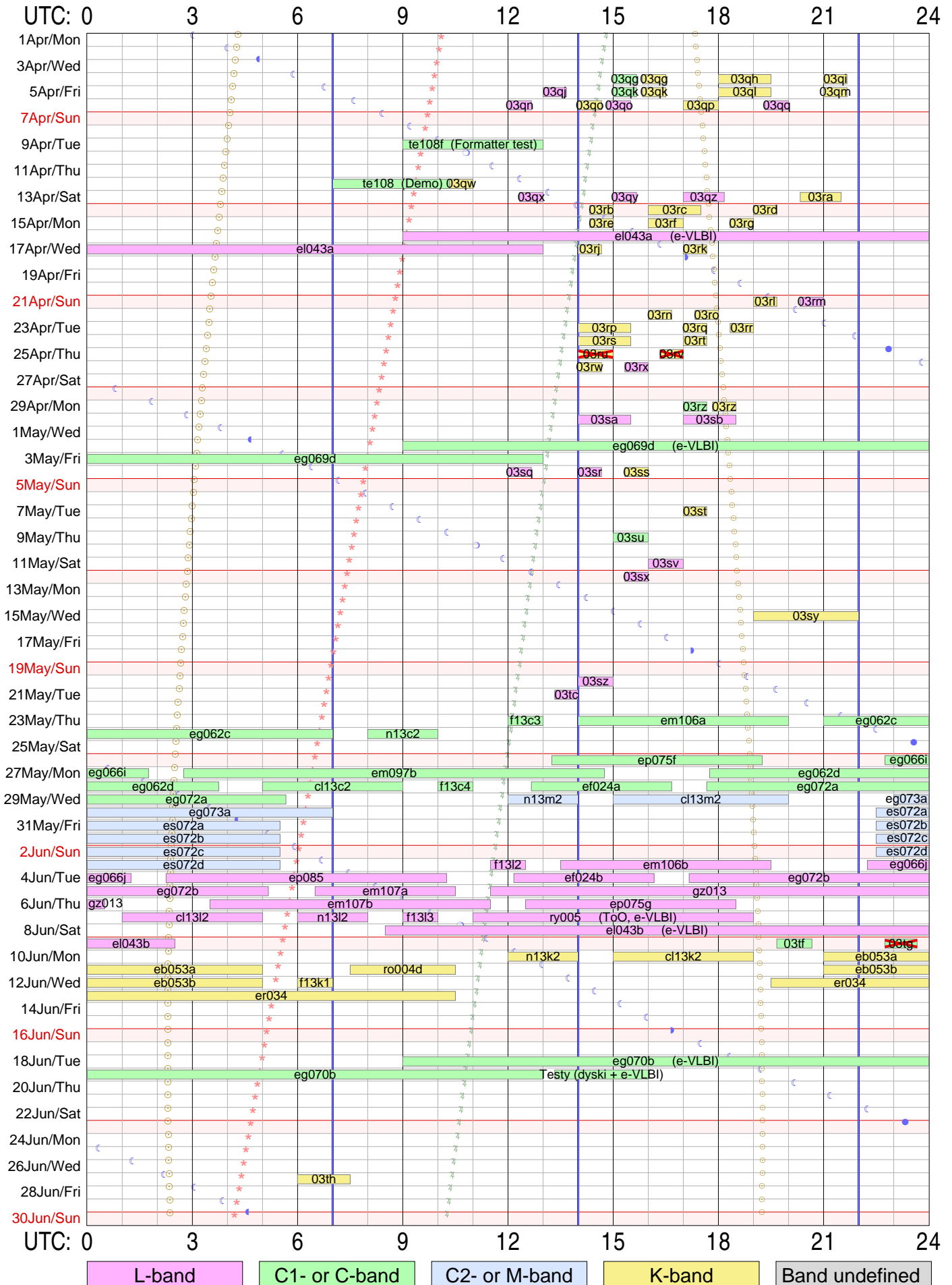


Sky events at Tr: ○ Sunrise & sunset ●●● Transit of Moon ♁ Transit of Jupiter ★ Transit of Aries (0h ST)

Vertical lines in blue mark operator shift times at Tr Total observing time: 360.0 hours in 136 experiments scheduled

Initial characters 'rk' are omitted from RA experiment names!

# Tr VLBI plan for Apr-Jun 2013

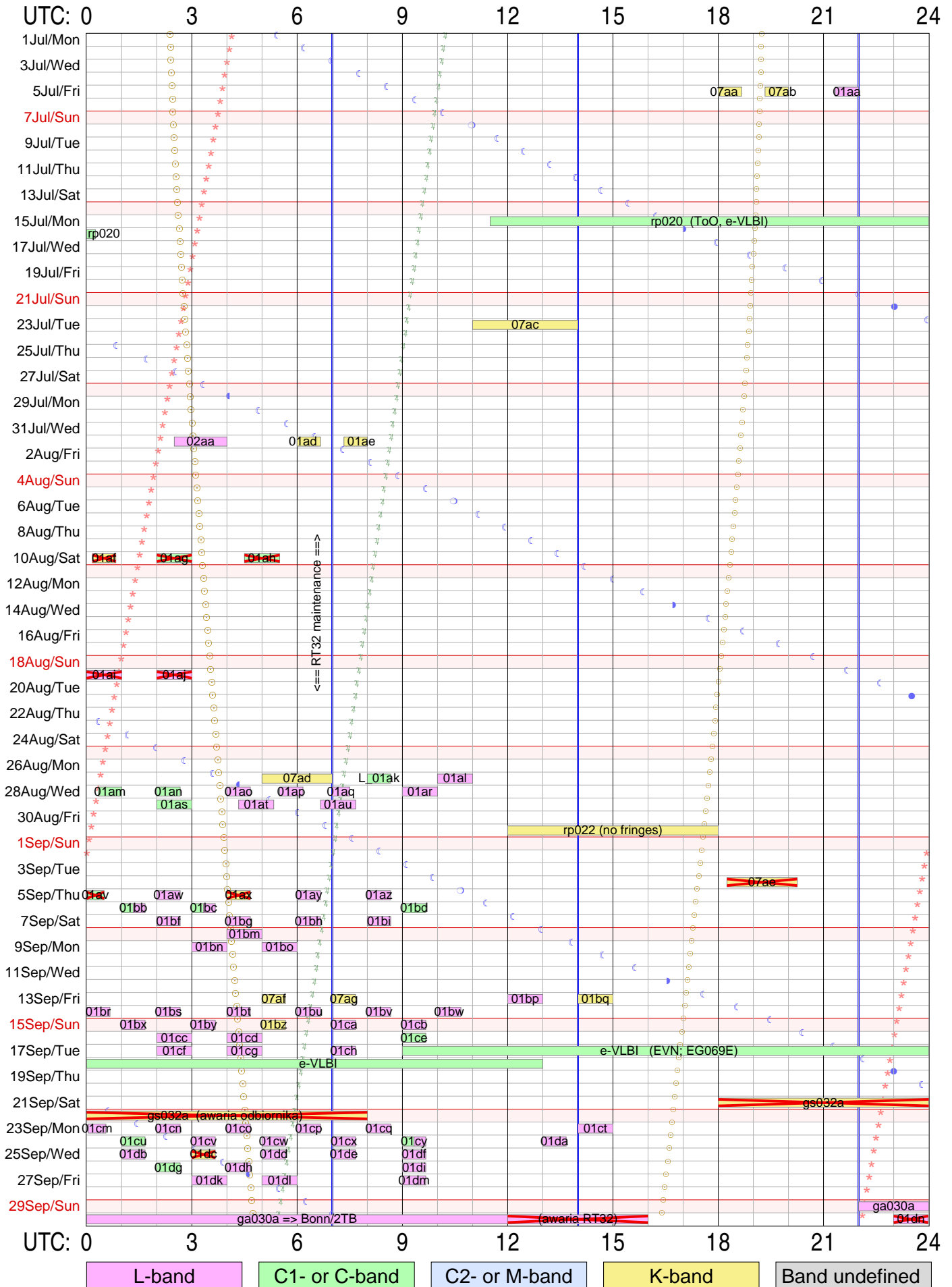


Sky events at Tr: ○ Sunrise & sunset ●●● Transit of Moon ♃ Transit of Jupiter ★ Transit of Aries (0h ST)

Vertical lines in blue mark operator shift times at Tr Total observing time: 398.2 hours in 100 experiments scheduled

Initial characters 'rk' are omitted from RA experiment names!

# Tr VLBI plan for Jul-Sep 2013



Sky events at Tr: ○ Sunrise & sunset ●●● Transit of Moon ♃ Transit of Jupiter ★ Transit of Aries (0h ST)

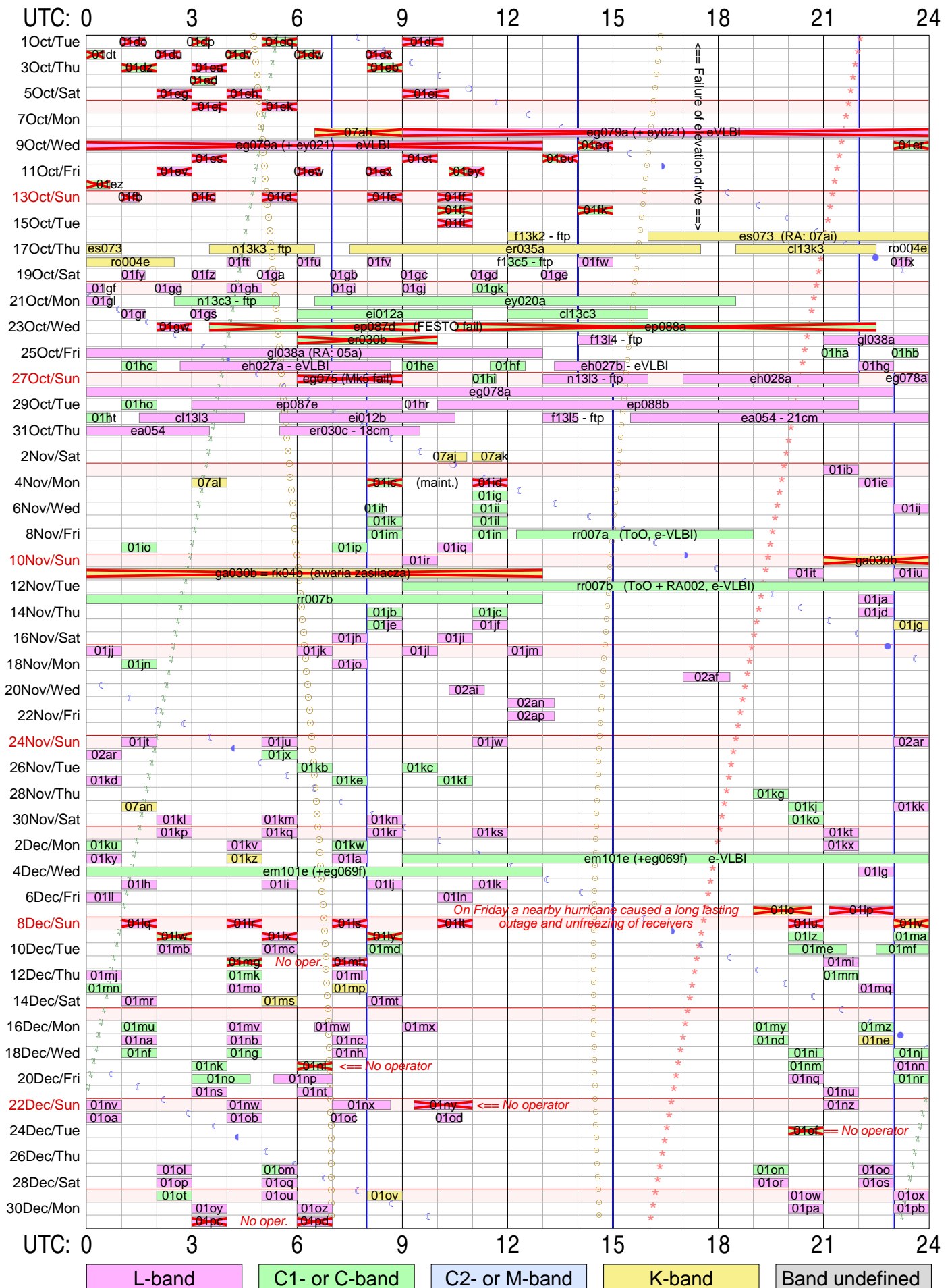
Vertical lines in blue mark operator shift times at Tr

Total observing time: 148.1 hours in 92 experiments scheduled

Initial characters 'rk' are omitted from RA experiment names!



# Tr VLBI plan for Oct-Dec 2013



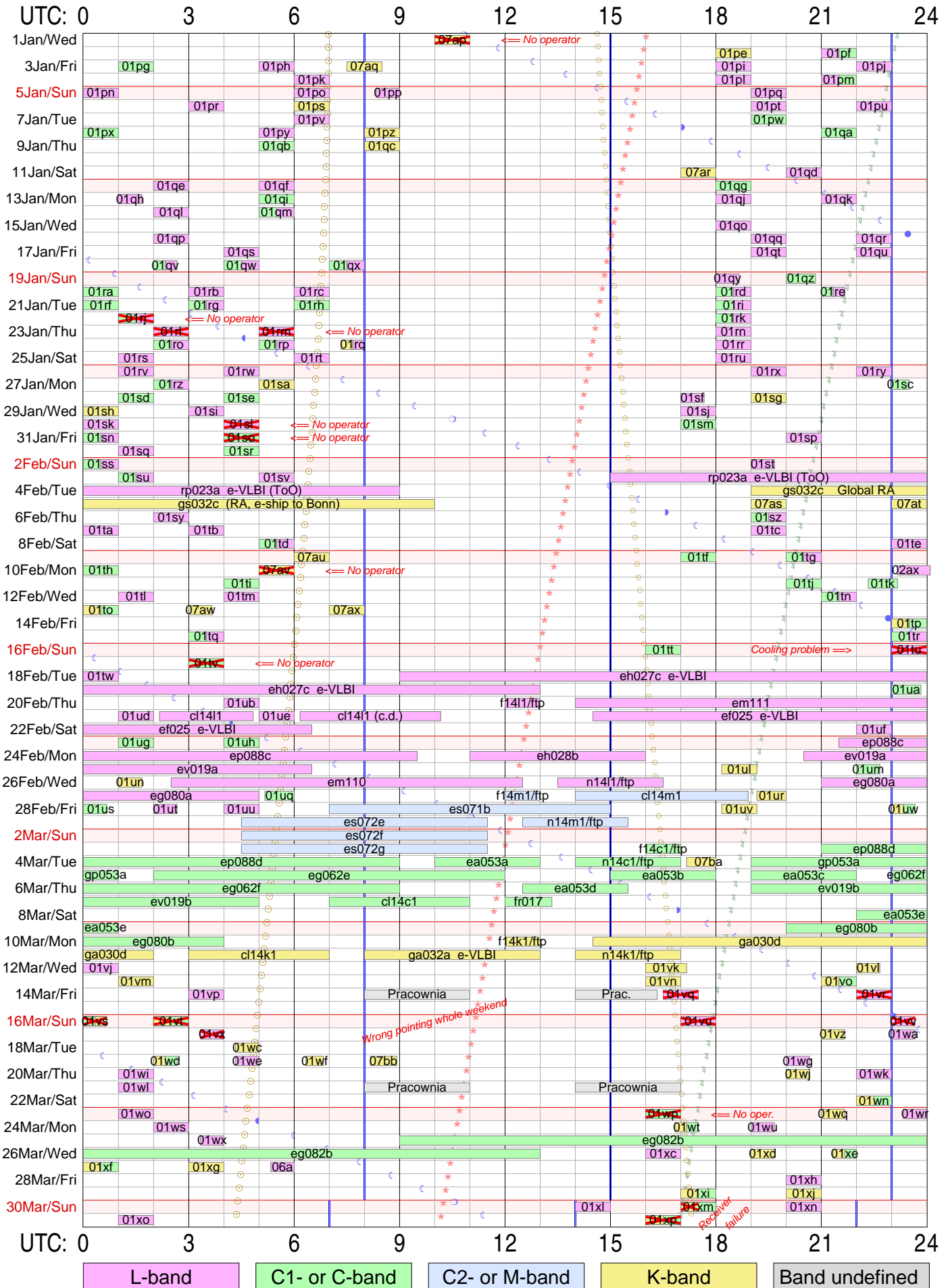
Sky events at Tr: ○ Sunrise & sunset ●●● Transit of Moon ▲ Transit of Jupiter ★ Transit of Aries (0h ST)

Vertical lines in blue mark operator shift times at Tr

Total observing time: 515.4 hours in 268 experiments scheduled

Initial characters 'rk' are omitted from RA experiment names!

# Tr VLBI plan for Jan-Mar 2014

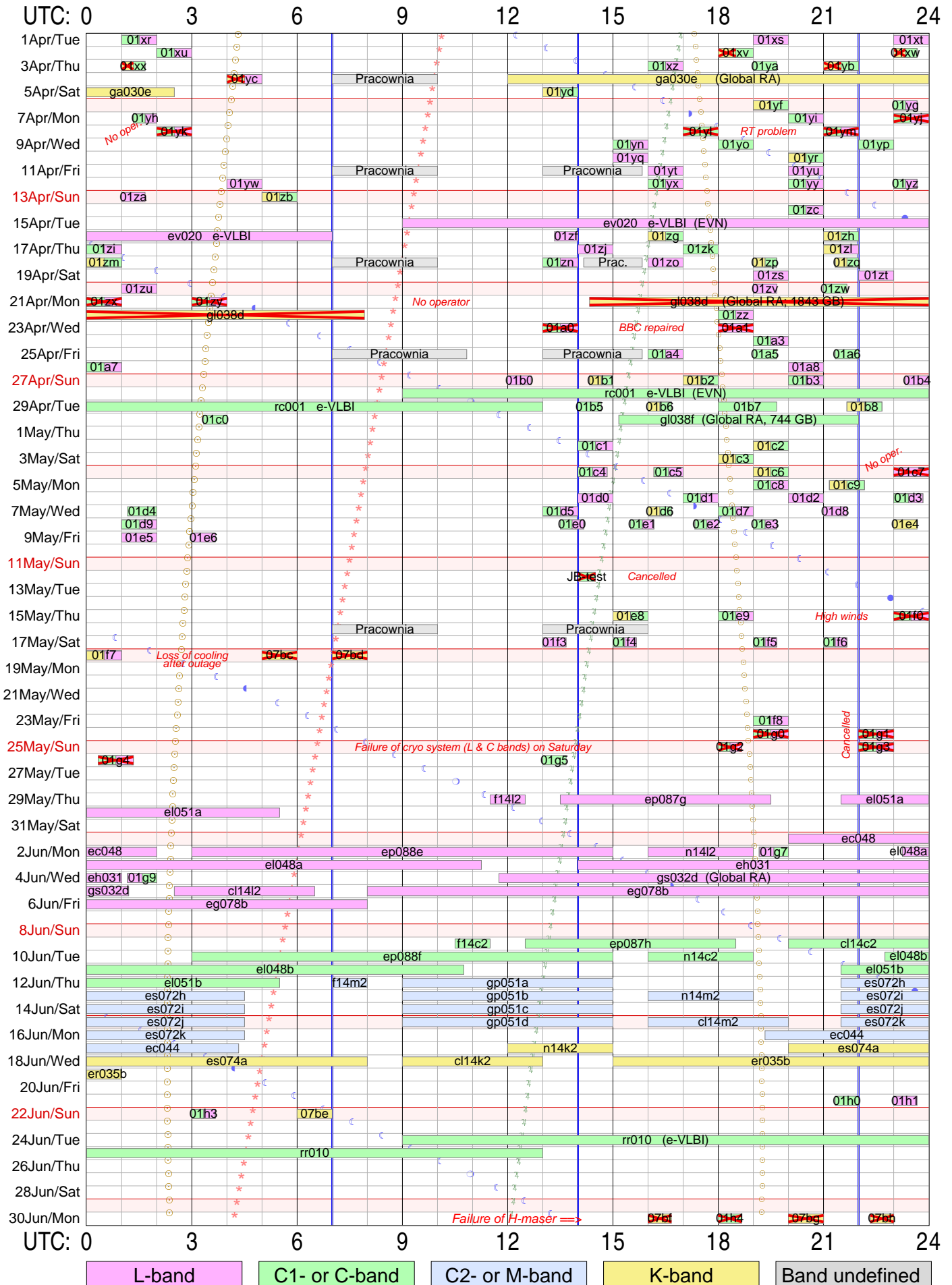


Sky events at Tr: ○ Sunrise & sunset    ●●●● Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

Vertical lines in blue mark operator shift times at Tr    Total observing time: 495.3 hours in 236 experiments scheduled

Initial characters 'rk' are omitted from RA experiment names!

# Tr VLBI plan for Apr-Jun 2014



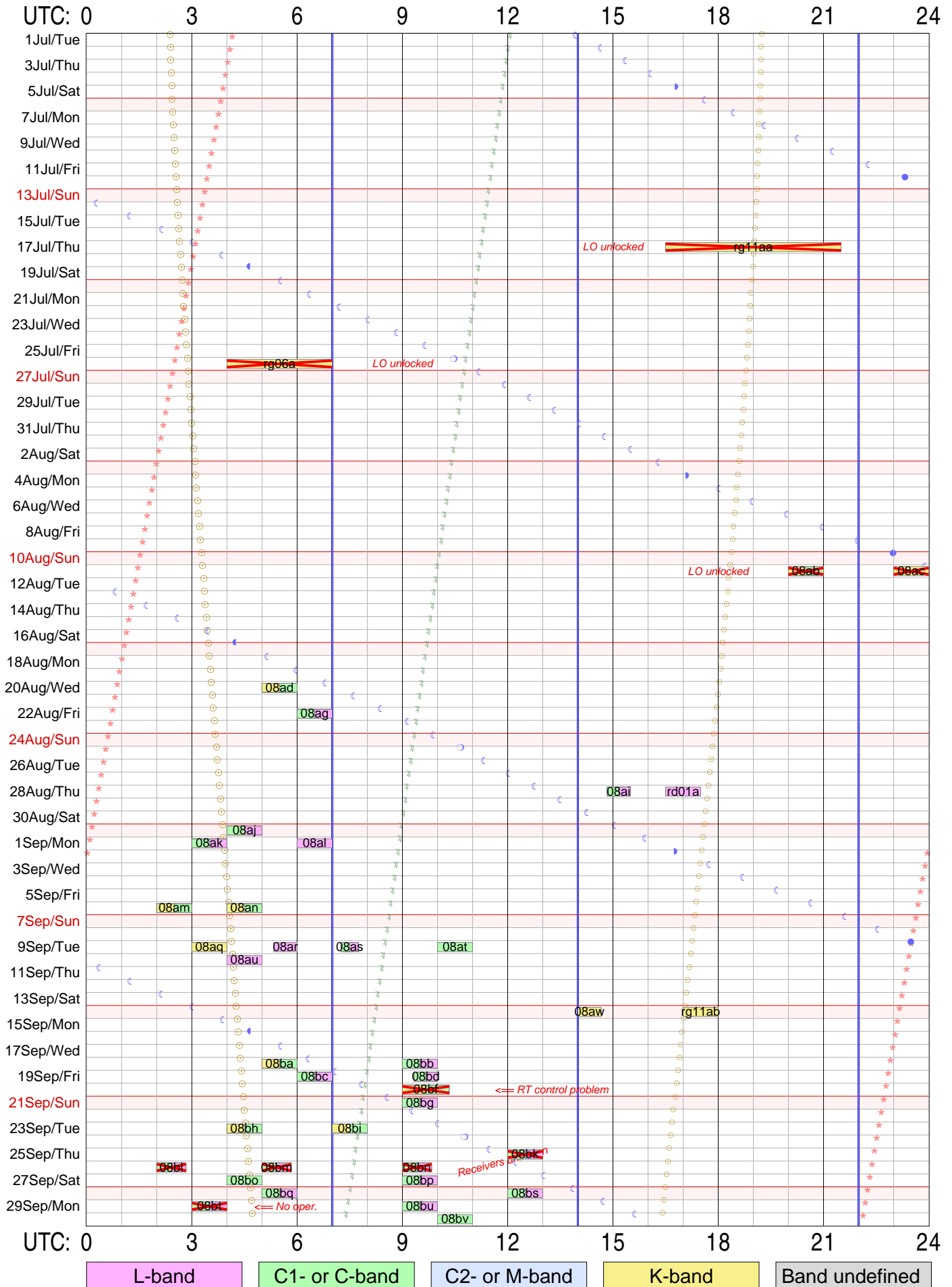
Sky events at Tr: ○ Sunrise & sunset ●●● Transit of Moon ♃ Transit of Jupiter \* Transit of Aries (0h ST)

Vertical lines in blue mark operator shift times at Tr

Total observing time: 473.2 hours in 166 experiments scheduled

Initial characters 'rk' are omitted from RA experiment names!

# Tr VLBI plan for Jul-Sep 2014



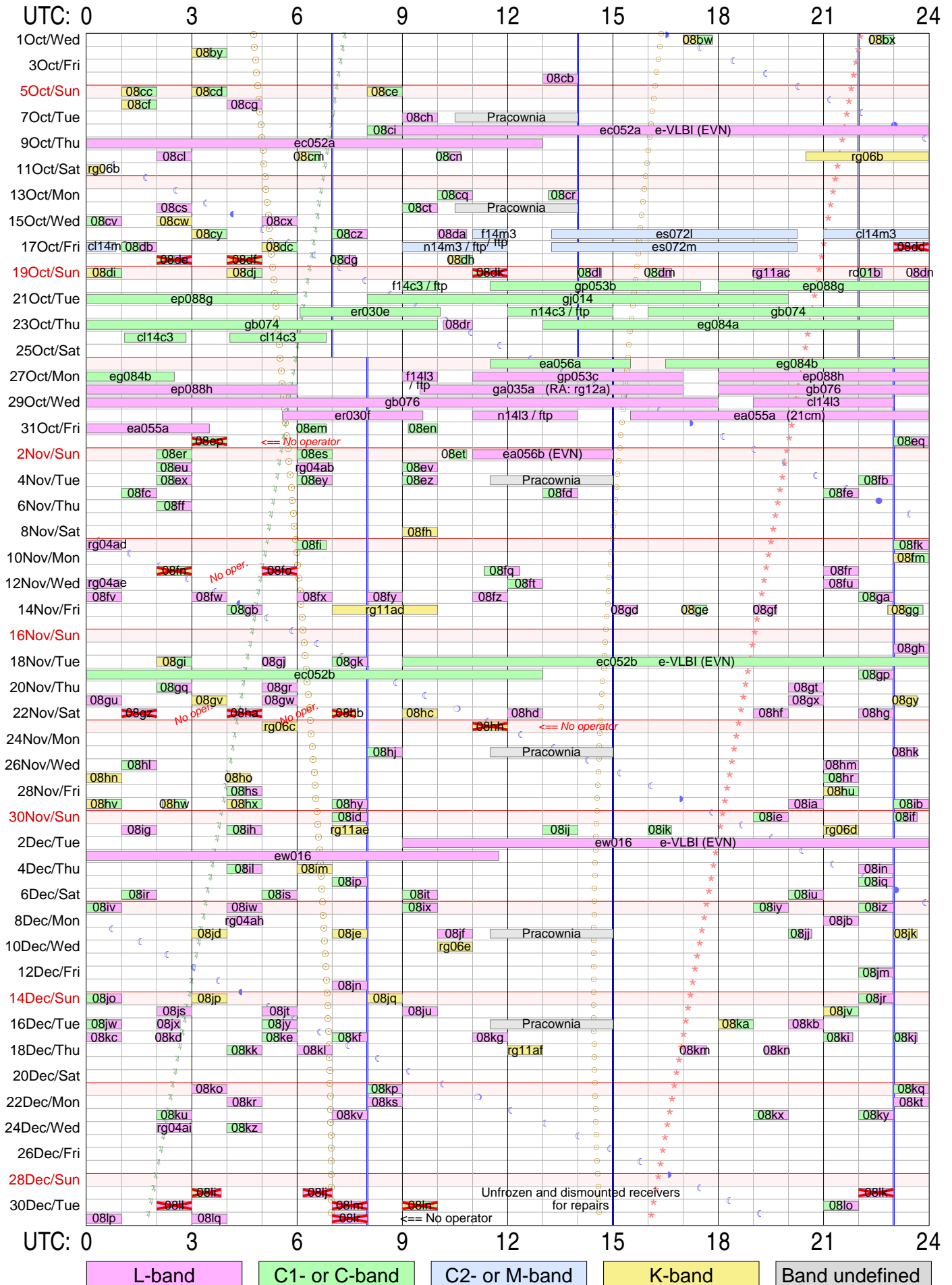
Sky events at Tr: ○ Sunrise & sunset    ●●● Transit of Moon    ♃ Transit of Jupiter    \* Transit of Aries (0h ST)

Vertical lines in blue mark operator shift times at Tr

Total observing time: 43.0 hours in 39 experiments scheduled

Initial characters 'rk' are omitted from RA experiment names!

# Tr VLBI plan for Oct-Dec 2014



Sky events at Tr: ○ Sunrise & sunset ●●●● Transit of Moon ☽ Transit of Jupiter ★ Transit of Aries (0h ST)

Vertical lines in blue mark operator shift times at Tr

Total observing time: 460.2 hours in 229 experiments scheduled

Initial characters 'rk' are omitted from RA experiment names!