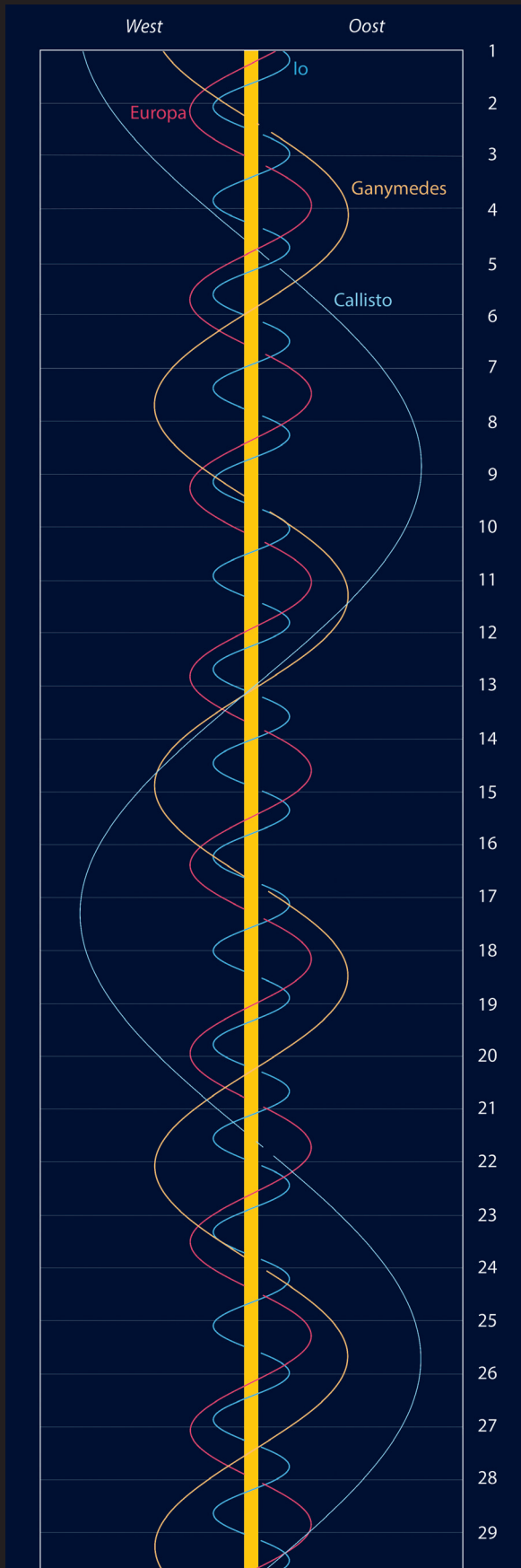


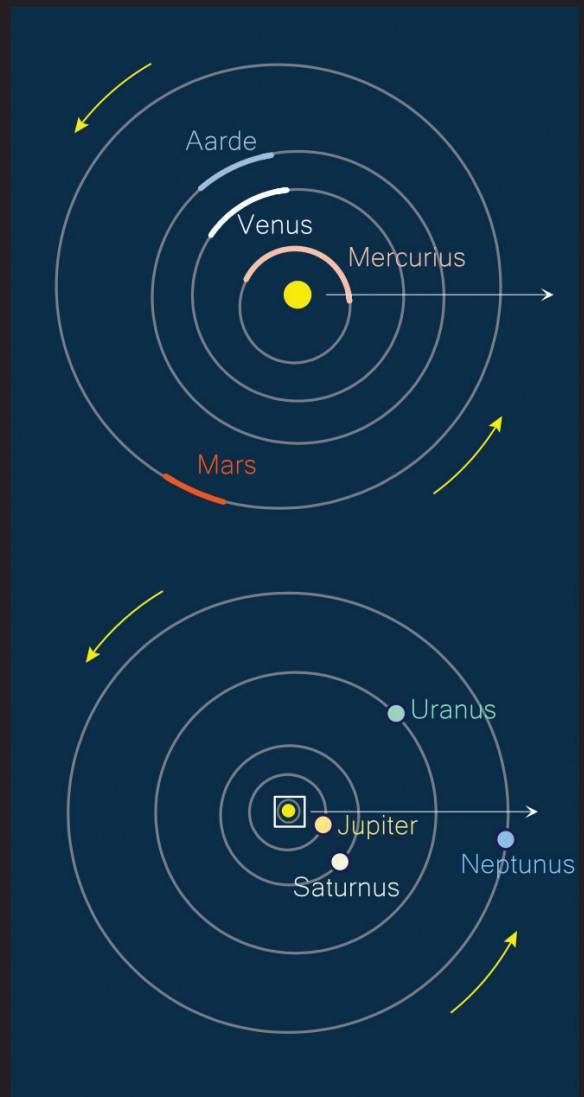
Posities van de Jupitermanen



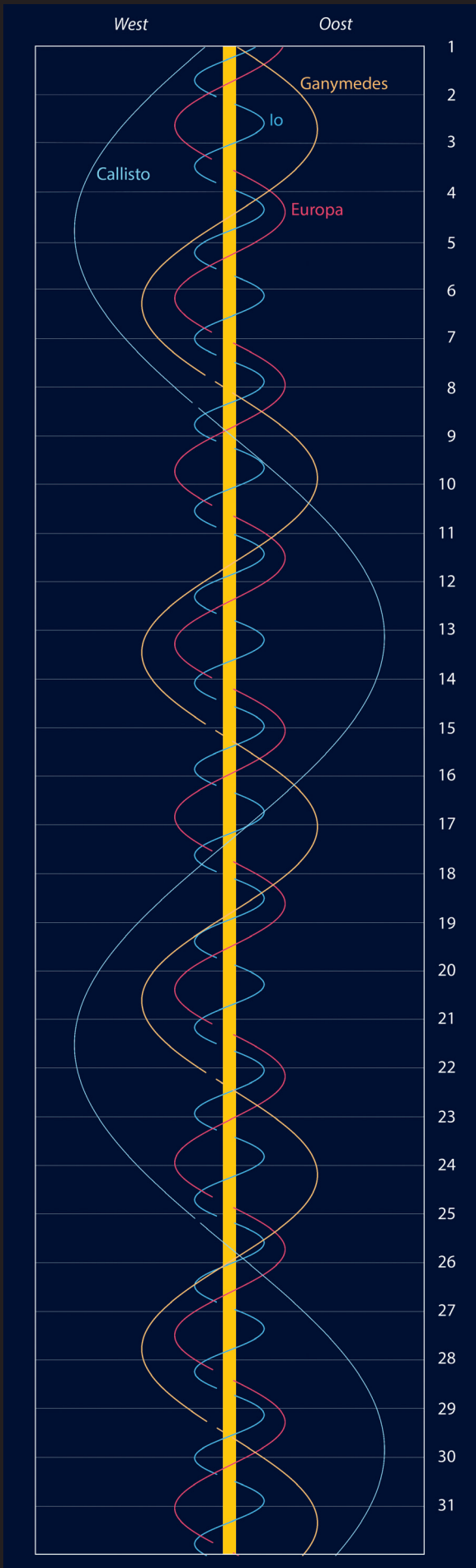
Verschijnselen van de Jupitermanen

| | Tijd | Maan | Verschijnsel | Type |
|----|-------|-----------|-----------------|-------|
| 1 | 16:43 | Io | schaduwovergang | einde |
| 4 | 17:25 | Europa | overgang | begin |
| 4 | 17:38 | Callisto | bedekking | einde |
| 6 | 17:18 | Europa | verduistering | einde |
| 7 | 18:04 | Io | bedekking | begin |
| 8 | 17:43 | Io | overgang | einde |
| 8 | 18:38 | Io | schaduwovergang | einde |
| 9 | 16:43 | Ganymedes | verduistering | einde |
| 15 | 17:27 | Io | overgang | begin |
| 15 | 18:17 | Io | schaduwovergang | begin |
| 16 | 17:42 | Io | verduistering | einde |
| 20 | 18:14 | Europa | bedekking | begin |
| 23 | 18:26 | Ganymedes | bedekking | begin |
| 24 | 16:57 | Io | schaduwovergang | einde |

Planeten in hun baan



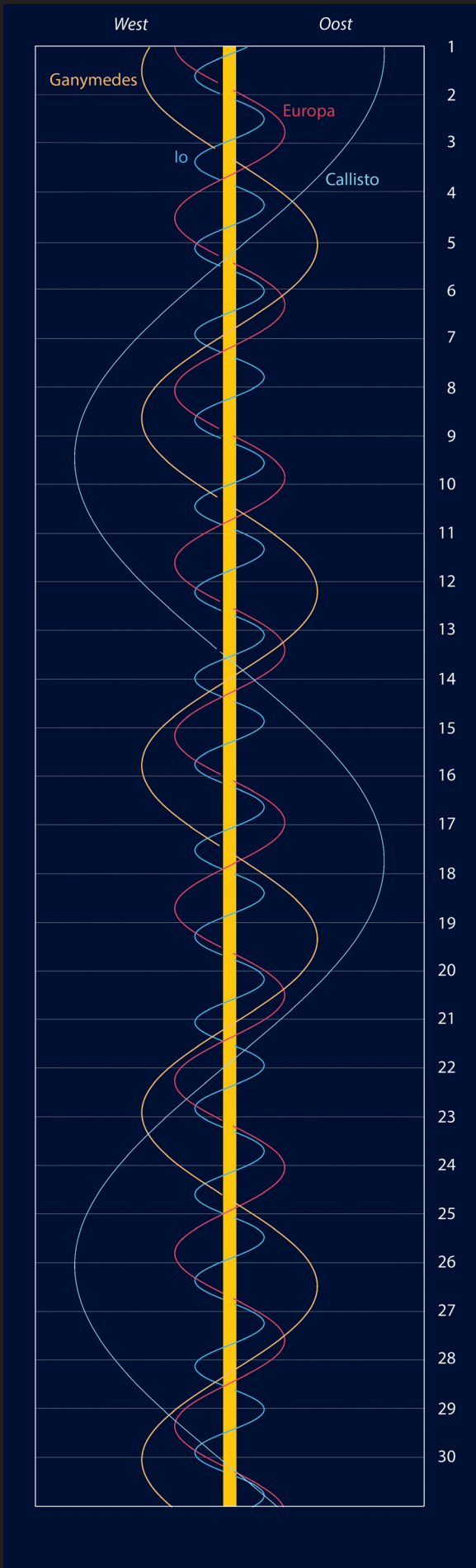
Posities van de Jupitermanen



Verschijnselen van de Jupitermanen

| Dag | Tijd | Maan | Verschijnsel | Type |
|-----|-------|-----------|-----------------|-------|
| 2 | 0:22 | Io | verduistering | begin |
| 3 | 1:07 | Io | overgang | einde |
| 5 | 2:26 | Europa | schaduwovergang | begin |
| 7 | 1:54 | Europa | bedekking | einde |
| 8 | 2:17 | Ganymedes | bedekking | einde |
| 9 | 2:16 | Io | verduistering | begin |
| 10 | 0:47 | Io | overgang | begin |
| 10 | 1:38 | Io | schaduwovergang | einde |
| 11 | 0:20 | Io | bedekking | einde |
| 14 | 1:47 | Europa | verduistering | einde |
| 14 | 1:57 | Europa | bedekking | begin |
| 15 | 0:54 | Ganymedes | verduistering | einde |
| 15 | 23:35 | Europa | overgang | einde |
| 17 | 1:18 | Io | schaduwovergang | begin |
| 17 | 2:39 | Io | overgang | begin |
| 18 | 2:11 | Io | bedekking | einde |
| 18 | 23:19 | Io | overgang | einde |
| 21 | 1:46 | Europa | verduistering | begin |
| 22 | 1:50 | Ganymedes | verduistering | begin |
| 22 | 23:32 | Europa | schaduwovergang | einde |
| 22 | 23:35 | Europa | overgang | begin |
| 23 | 2:03 | Europa | overgang | einde |
| 24 | 3:12 | Io | schaduwovergang | begin |
| 25 | 0:32 | Io | verduistering | begin |
| 25 | 2:08 | Callisto | verduistering | begin |
| 25 | 22:57 | Io | overgang | begin |
| 25 | 23:52 | Ganymedes | overgang | einde |
| 25 | 23:54 | Io | schaduwovergang | einde |
| 26 | 1:10 | Io | overgang | einde |
| 26 | 22:29 | Io | bedekking | einde |
| 29 | 23:31 | Europa | schaduwovergang | begin |
| 30 | 2:02 | Europa | overgang | begin |
| 30 | 2:07 | Europa | schaduwovergang | einde |
| 31 | 22:38 | Europa | bedekking | einde |

Posities van de Jupitermanen



Verschijselen van de Jupitermanen

| Dag | Tijd | Maan | Verschijsel | Type |
|-----|-------|-----------|-------------------|-------|
| 1 | 1:40 | Io | schaduwovergang | begin |
| 1 | 2:21 | Io | overgang | begin |
| 1 | 3:54 | Io | schaduwovergang | einde |
| 1 | 21:15 | Europa | bedekking | einde |
| 1 | 23:00 | Io | verduistering | begin |
| 2 | 1:49 | Io | bedekking | einde |
| 2 | 20:09 | Io | schaduwovergang | begin |
| 2 | 20:47 | Io | overgang | begin |
| 2 | 22:23 | Io | schaduwovergang | einde |
| 2 | 22:59 | Io | overgang | einde |
| 3 | 1:56 | Ganymedes | verduistering | begin |
| 3 | 20:15 | Io | bedekking | einde |
| 5 | 5:25 | Callisto | benedenconjunctie | |
| 6 | 20:51 | Ganymedes | overgang | einde |
| 7 | 1:45 | Europa | schaduwovergang | begin |
| 7 | 2:50 | Europa | overgang | begin |
| 7 | 4:19 | Europa | schaduwovergang | einde |
| 8 | 3:35 | Io | schaduwovergang | begin |
| 8 | 4:05 | Io | overgang | begin |
| 8 | 20:04 | Europa | verduistering | begin |
| 8 | 23:31 | Europa | bedekking | einde |
| 9 | 0:54 | Io | verduistering | begin |
| 9 | 3:33 | Io | bedekking | einde |
| 9 | 22:04 | Io | schaduwovergang | begin |
| 9 | 22:31 | Io | overgang | begin |
| 10 | 0:18 | Io | schaduwovergang | einde |
| 10 | 0:43 | Io | overgang | einde |
| 10 | 19:23 | Io | verduistering | begin |
| 10 | 21:59 | Io | bedekking | einde |
| 13 | 20:04 | Ganymedes | schaduwovergang | begin |
| 13 | 21:38 | Ganymedes | overgang | begin |
| 13 | 22:59 | Ganymedes | schaduwovergang | einde |
| 14 | 0:09 | Ganymedes | overgang | einde |
| 14 | 4:21 | Europa | schaduwovergang | begin |
| 15 | 22:42 | Europa | verduistering | begin |
| 16 | 1:47 | Europa | bedekking | einde |
| 16 | 2:48 | Io | verduistering | begin |
| 16 | 23:59 | Io | schaduwovergang | begin |
| 17 | 0:15 | Io | overgang | begin |
| 17 | 2:13 | Io | schaduwovergang | einde |
| 17 | 2:27 | Io | overgang | einde |
| 17 | 20:11 | Europa | schaduwovergang | einde |
| 17 | 20:36 | Europa | overgang | einde |
| 17 | 21:17 | Io | verduistering | begin |
| 17 | 23:43 | Io | bedekking | einde |
| 18 | 20:41 | Io | schaduwovergang | einde |
| 18 | 20:53 | Io | overgang | einde |
| 21 | 0:06 | Ganymedes | schaduwovergang | begin |
| 21 | 0:53 | Ganymedes | overgang | begin |
| 21 | 2:59 | Ganymedes | schaduwovergang | einde |
| 21 | 3:25 | Ganymedes | overgang | einde |
| 21 | 19:38 | Callisto | benedenconjunctie | |
| 23 | 1:20 | Europa | verduistering | begin |
| 23 | 4:02 | Europa | bedekking | einde |
| 23 | 4:43 | Io | verduistering | begin |
| 24 | 1:54 | Io | schaduwovergang | begin |
| 24 | 1:59 | Io | overgang | begin |
| 24 | 4:08 | Io | schaduwovergang | einde |