

SWISS EPHEMERIS for the year 1668  
heliocentric

JANUARY 1668 GC

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♂
S 1	6 41 29	10 <sup>28</sup> 28'25	10 <sup>28</sup> 31	7 <sup>28</sup> 2	2 <sup>28</sup> 12	13 <sup>17</sup> 37	6 <sup>8</sup> 48	3 <sup>28</sup> 30	27 <sup>28</sup> 44	24 <sup>28</sup> 1	28 <sup>28</sup> 41	29 <sup>28</sup> 43
M 2	6 45 25	11 <sup>29</sup> 34	11 <sup>34</sup>	13 <sup>9</sup>	3 <sup>47</sup>	14 <sup>3</sup>	6 <sup>54</sup>	3 <sup>32</sup>	27 <sup>45</sup>	24 <sup>2</sup>	28 <sup>41</sup>	29 <sup>43</sup>
T 3	6 49 22	12 <sup>30</sup> 42	12 <sup>37</sup>	19 <sup>9</sup>	5 <sup>22</sup>	14 <sup>30</sup>	6 <sup>59</sup>	3 <sup>34</sup>	27 <sup>45</sup>	24 <sup>2</sup>	28 <sup>42</sup>	29 <sup>44</sup>
W 4	6 53 18	13 <sup>31</sup> 51	13 <sup>39</sup>	25 <sup>2</sup>	6 <sup>57</sup>	14 <sup>56</sup>	7 <sup>4</sup>	3 <sup>36</sup>	27 <sup>46</sup>	24 <sup>2</sup>	28 <sup>42</sup>	29 <sup>45</sup>
T 5	6 57 15	14 <sup>33</sup> 00	14 <sup>41</sup>	0 <sup>46</sup>	8 <sup>32</sup>	15 <sup>23</sup>	7 <sup>10</sup>	3 <sup>38</sup>	27 <sup>47</sup>	24 <sup>3</sup>	28 <sup>42</sup>	29 <sup>46</sup>
F 6	7 1 11	15 <sup>34</sup> 08	15 <sup>43</sup>	6 <sup>22</sup>	10 <sup>6</sup>	15 <sup>49</sup>	7 <sup>15</sup>	3 <sup>40</sup>	27 <sup>47</sup>	24 <sup>3</sup>	28 <sup>42</sup>	29 <sup>46</sup>
S 7	7 5 8	16 <sup>35</sup> 17	16 <sup>44</sup>	11 <sup>49</sup>	11 <sup>41</sup>	16 <sup>15</sup>	7 <sup>21</sup>	3 <sup>41</sup>	27 <sup>48</sup>	24 <sup>3</sup>	28 <sup>42</sup>	29 <sup>47</sup>
S 8	7 9 4	17 <sup>36</sup> 25	17 <sup>45</sup>	17 <sup>6</sup>	13 <sup>16</sup>	16 <sup>42</sup>	7 <sup>26</sup>	3 <sup>43</sup>	27 <sup>49</sup>	24 <sup>4</sup>	28 <sup>42</sup>	29 <sup>48</sup>
M 9	7 13 1	18 <sup>37</sup> 34	18 <sup>45</sup>	22 <sup>13</sup>	14 <sup>51</sup>	17 <sup>8</sup>	7 <sup>32</sup>	3 <sup>45</sup>	27 <sup>49</sup>	24 <sup>4</sup>	28 <sup>43</sup>	29 <sup>49</sup>
T 10	7 16 58	19 <sup>38</sup> 42	19 <sup>46</sup>	27 <sup>11</sup>	16 <sup>26</sup>	17 <sup>35</sup>	7 <sup>37</sup>	3 <sup>47</sup>	27 <sup>50</sup>	24 <sup>5</sup>	28 <sup>43</sup>	29 <sup>49</sup>
W 11	7 20 54	20 <sup>39</sup> 51	20 <sup>45</sup>	1 <sup>59</sup>	18 <sup>1</sup>	18 <sup>1</sup>	7 <sup>42</sup>	3 <sup>49</sup>	27 <sup>51</sup>	24 <sup>5</sup>	28 <sup>43</sup>	29 <sup>50</sup>
T 12	7 24 51	21 <sup>40</sup> 59	21 <sup>45</sup>	6 <sup>38</sup>	19 <sup>36</sup>	18 <sup>28</sup>	7 <sup>48</sup>	3 <sup>51</sup>	27 <sup>51</sup>	24 <sup>5</sup>	28 <sup>43</sup>	29 <sup>51</sup>
F 13	7 28 47	22 <sup>42</sup> 06	22 <sup>44</sup>	11 <sup>8</sup>	21 <sup>11</sup>	18 <sup>54</sup>	7 <sup>53</sup>	3 <sup>52</sup>	27 <sup>52</sup>	24 <sup>6</sup>	28 <sup>43</sup>	29 <sup>51</sup>
S 14	7 32 44	23 <sup>43</sup> 14	23 <sup>43</sup>	15 <sup>29</sup>	22 <sup>46</sup>	19 <sup>21</sup>	7 <sup>59</sup>	3 <sup>54</sup>	27 <sup>53</sup>	24 <sup>6</sup>	28 <sup>44</sup>	29 <sup>52</sup>
S 15	7 36 40	24 <sup>44</sup> 20	24 <sup>42</sup>	19 <sup>43</sup>	24 <sup>21</sup>	19 <sup>47</sup>	8 <sup>4</sup>	3 <sup>56</sup>	27 <sup>53</sup>	24 <sup>6</sup>	28 <sup>44</sup>	29 <sup>53</sup>
M 16	7 40 37	25 <sup>45</sup> 26	25 <sup>41</sup>	23 <sup>48</sup>	25 <sup>56</sup>	20 <sup>14</sup>	8 <sup>10</sup>	3 <sup>58</sup>	27 <sup>54</sup>	24 <sup>7</sup>	28 <sup>44</sup>	29 <sup>54</sup>
T 17	7 44 33	26 <sup>46</sup> 30	26 <sup>41</sup>	27 <sup>46</sup>	27 <sup>31</sup>	20 <sup>40</sup>	8 <sup>15</sup>	4 <sup>0</sup>	27 <sup>55</sup>	24 <sup>7</sup>	28 <sup>44</sup>	29 <sup>54</sup>
W 18	7 48 30	27 <sup>47</sup> 34	27 <sup>40</sup>	1 <sup>37</sup>	29 <sup>6</sup>	21 <sup>7</sup>	8 <sup>20</sup>	4 <sup>2</sup>	27 <sup>55</sup>	24 <sup>7</sup>	28 <sup>44</sup>	29 <sup>55</sup>
T 19	7 52 27	28 <sup>48</sup> 37	28 <sup>40</sup>	5 <sup>22</sup>	0 <sup>41</sup>	21 <sup>34</sup>	8 <sup>26</sup>	4 <sup>3</sup>	27 <sup>56</sup>	24 <sup>8</sup>	28 <sup>44</sup>	29 <sup>56</sup>
F 20	7 56 23	29 <sup>49</sup> 39	29 <sup>41</sup>	9 <sup>0</sup>	2 <sup>16</sup>	22 <sup>0</sup>	8 <sup>31</sup>	4 <sup>5</sup>	27 <sup>56</sup>	24 <sup>8</sup>	28 <sup>45</sup>	29 <sup>56</sup>
S 21	8 0 20	0 <sup>50</sup> 39	0 <sup>41</sup>	12 <sup>33</sup>	3 <sup>51</sup>	22 <sup>27</sup>	8 <sup>37</sup>	4 <sup>7</sup>	27 <sup>57</sup>	24 <sup>8</sup>	28 <sup>45</sup>	29 <sup>57</sup>
S 22	8 4 16	1 <sup>51</sup> 39	1 <sup>42</sup>	16 <sup>0</sup>	5 <sup>26</sup>	22 <sup>53</sup>	8 <sup>42</sup>	4 <sup>9</sup>	27 <sup>58</sup>	24 <sup>9</sup>	28 <sup>45</sup>	29 <sup>58</sup>
M 23	8 8 13	2 <sup>52</sup> 37	2 <sup>44</sup>	19 <sup>23</sup>	7 <sup>1</sup>	23 <sup>20</sup>	8 <sup>48</sup>	4 <sup>11</sup>	27 <sup>58</sup>	24 <sup>9</sup>	28 <sup>45</sup>	29 <sup>59</sup>
T 24	8 12 9	3 <sup>53</sup> 35	3 <sup>46</sup>	22 <sup>41</sup>	8 <sup>36</sup>	23 <sup>47</sup>	8 <sup>53</sup>	4 <sup>13</sup>	27 <sup>59</sup>	24 <sup>10</sup>	28 <sup>45</sup>	29 <sup>59</sup>
W 25	8 16 6	4 <sup>54</sup> 31	4 <sup>48</sup>	25 <sup>55</sup>	10 <sup>12</sup>	24 <sup>13</sup>	8 <sup>58</sup>	4 <sup>14</sup>	28 <sup>0</sup>	24 <sup>10</sup>	28 <sup>46</sup>	0 <sup>0</sup>
T 26	8 20 2	5 <sup>55</sup> 26	5 <sup>50</sup>	29 <sup>5</sup>	11 <sup>47</sup>	24 <sup>40</sup>	9 <sup>4</sup>	4 <sup>16</sup>	28 <sup>0</sup>	24 <sup>10</sup>	28 <sup>46</sup>	0 <sup>1</sup>
F 27	8 23 59	6 <sup>56</sup> 20	6 <sup>52</sup>	2 <sup>12</sup>	13 <sup>22</sup>	25 <sup>7</sup>	9 <sup>9</sup>	4 <sup>18</sup>	28 <sup>1</sup>	24 <sup>11</sup>	28 <sup>46</sup>	0 <sup>2</sup>
S 28	8 27 56	7 <sup>57</sup> 12	7 <sup>55</sup>	5 <sup>15</sup>	14 <sup>57</sup>	25 <sup>34</sup>	9 <sup>15</sup>	4 <sup>20</sup>	28 <sup>2</sup>	24 <sup>11</sup>	28 <sup>46</sup>	0 <sup>2</sup>
S 29	8 31 52	8 <sup>58</sup> 04	8 <sup>58</sup>	8 <sup>15</sup>	16 <sup>33</sup>	26 <sup>0</sup>	9 <sup>20</sup>	4 <sup>22</sup>	28 <sup>2</sup>	24 <sup>11</sup>	28 <sup>46</sup>	0 <sup>3</sup>
M 30	8 35 49	9 <sup>58</sup> 54	10 <sup>0</sup>	11 <sup>13</sup>	18 <sup>8</sup>	26 <sup>27</sup>	9 <sup>26</sup>	4 <sup>24</sup>	28 <sup>3</sup>	24 <sup>12</sup>	28 <sup>46</sup>	0 <sup>4</sup>
T 31	8 39 45	10 <sup>59</sup> 43	11 <sup>0</sup> 3	14 <sup>16</sup> 9	19 <sup>43</sup>	26 <sup>54</sup>	9 <sup>31</sup>	4 <sup>25</sup>	28 <sup>4</sup>	24 <sup>12</sup>	28 <sup>47</sup>	0 <sup>4</sup>

Delta T = 26.50 sec. Greg. Calendar

FEBRUARY 1668 GC

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♂
W 1	8 43 42	12 <sup>0</sup> 31	12 <sup>0</sup> 5	17 <sup>16</sup> 2	21 <sup>19</sup>	27 <sup>21</sup>	9 <sup>36</sup>	4 <sup>27</sup>	28 <sup>4</sup>	24 <sup>12</sup>	28 <sup>47</sup>	0 <sup>5</sup>
T 2	8 47 38	13 <sup>1</sup> 18	13 <sup>8</sup>	19 <sup>53</sup>	22 <sup>54</sup>	27 <sup>47</sup>	9 <sup>42</sup>	4 <sup>29</sup>	28 <sup>5</sup>	24 <sup>13</sup>	28 <sup>47</sup>	0 <sup>6</sup>
F 3	8 51 35	14 <sup>2</sup> 03	14 <sup>9</sup>	22 <sup>43</sup>	24 <sup>29</sup>	28 <sup>14</sup>	9 <sup>47</sup>	4 <sup>31</sup>	28 <sup>6</sup>	24 <sup>13</sup>	28 <sup>47</sup>	0 <sup>7</sup>
S 4	8 55 31	15 <sup>2</sup> 48	15 <sup>11</sup>	25 <sup>31</sup>	26 <sup>5</sup>	28 <sup>41</sup>	9 <sup>53</sup>	4 <sup>33</sup>	28 <sup>6</sup>	24 <sup>14</sup>	28 <sup>47</sup>	0 <sup>7</sup>
S 5	8 59 28	16 <sup>3</sup> 32	16 <sup>12</sup>	28 <sup>19</sup>	27 <sup>40</sup>	29 <sup>8</sup>	9 <sup>58</sup>	4 <sup>35</sup>	28 <sup>7</sup>	24 <sup>14</sup>	28 <sup>47</sup>	0 <sup>8</sup>
M 6	9 3 25	17 <sup>4</sup> 15	17 <sup>13</sup>	1 <sup>5</sup>	29 <sup>16</sup>	29 <sup>35</sup>	10 <sup>3</sup>	4 <sup>36</sup>	28 <sup>8</sup>	24 <sup>14</sup>	28 <sup>48</sup>	0 <sup>9</sup>
T 7	9 7 21	18 <sup>4</sup> 57	18 <sup>13</sup>	3 <sup>51</sup>	0 <sup>51</sup>	0 <sup>2</sup>	10 <sup>9</sup>	4 <sup>38</sup>	28 <sup>8</sup>	24 <sup>15</sup>	28 <sup>48</sup>	0 <sup>10</sup>
W 8	9 11 18	19 <sup>5</sup> 37	19 <sup>13</sup>	6 <sup>36</sup>	2 <sup>27</sup>	0 <sup>29</sup>	10 <sup>14</sup>	4 <sup>40</sup>	28 <sup>9</sup>	24 <sup>15</sup>	28 <sup>48</sup>	0 <sup>10</sup>
T 9	9 15 14	20 <sup>6</sup> 17	20 <sup>12</sup>	9 <sup>20</sup>	4 <sup>2</sup>	0 <sup>56</sup>	10 <sup>20</sup>	4 <sup>42</sup>	28 <sup>9</sup>	24 <sup>15</sup>	28 <sup>48</sup>	0 <sup>11</sup>
F 10	9 19 11	21 <sup>6</sup> 56	21 <sup>11</sup>	12 <sup>5</sup>	5 <sup>38</sup>	1 <sup>23</sup>	10 <sup>25</sup>	4 <sup>44</sup>	28 <sup>10</sup>	24 <sup>16</sup>	28 <sup>48</sup>	0 <sup>12</sup>
S 11	9 23 7	22 <sup>7</sup> 33	22 <sup>10</sup>	14 <sup>50</sup>	7 <sup>13</sup>	1 <sup>50</sup>	10 <sup>31</sup>	4 <sup>46</sup>	28 <sup>11</sup>	24 <sup>16</sup>	28 <sup>49</sup>	0 <sup>12</sup>
S 12	9 27 4	23 <sup>8</sup> 08	23 <sup>9</sup>	17 <sup>35</sup>	8 <sup>49</sup>	2 <sup>17</sup>	10 <sup>36</sup>	4 <sup>47</sup>	28 <sup>11</sup>	24 <sup>16</sup>	28 <sup>49</sup>	0 <sup>13</sup>
M 13	9 31 0	24 <sup>8</sup> 43	24 <sup>7</sup>	20 <sup>20</sup>	10 <sup>24</sup>	2 <sup>44</sup>	10 <sup>41</sup>	4 <sup>49</sup>	28 <sup>12</sup>	24 <sup>17</sup>	28 <sup>49</sup>	0 <sup>14</sup>
T 14	9 34 57	25 <sup>9</sup> 15	25 <sup>6</sup>	23 <sup>6</sup>	12 <sup>0</sup>	3 <sup>11</sup>	10 <sup>47</sup>	4 <sup>51</sup>	28 <sup>13</sup>	24 <sup>17</sup>	28 <sup>49</sup>	0 <sup>15</sup>
W 15	9 38 54	26 <sup>9</sup> 46	26 <sup>5</sup>	25 <sup>54</sup>	13 <sup>36</sup>	3 <sup>38</sup>	10 <sup>52</sup>	4 <sup>53</sup>	28 <sup>13</sup>	24 <sup>17</sup>	28 <sup>49</sup>	0 <sup>15</sup>
T 16	9 42 50	27 <sup>10</sup> 15	27 <sup>4</sup>	28 <sup>42</sup>	15 <sup>12</sup>	4 <sup>5</sup>	10 <sup>58</sup>	4 <sup>55</sup>	28 <sup>14</sup>	24 <sup>18</sup>	28 <sup>49</sup>	0 <sup>16</sup>
F 17	9 46 47	28 <sup>10</sup> 42	28 <sup>3</sup>	1 <sup>31</sup>	16 <sup>47</sup>	4 <sup>32</sup>	11 <sup>3</sup>	4 <sup>57</sup>	28 <sup>15</sup>	24 <sup>18</sup>	28 <sup>50</sup>	0 <sup>17</sup>
S 18	9 50 43	29 <sup>11</sup> 07	29 <sup>2</sup>	4 <sup>23</sup>	18 <sup>23</sup>	5 <sup>0</sup>	11 <sup>9</sup>	4 <sup>59</sup>	28 <sup>15</sup>	24 <sup>19</sup>	28 <sup>50</sup>	0 <sup>17</sup>
S 19	9 54 40	0 <sup>11</sup> 30	0 <sup>17</sup> 2	7 <sup>16</sup>	19 <sup>59</sup>	5 <sup>27</sup>	11 <sup>14</sup>	5 <sup>0</sup>	28 <sup>16</sup>	24 <sup>19</sup>	28 <sup>50</sup>	0 <sup>18</sup>
M 20	9 58 36	1 <sup>11</sup> 52	1 <sup>3</sup>	10 <sup>11</sup>	21 <sup>35</sup>	5 <sup>54</sup>	11 <sup>19</sup>	5 <sup>2</sup>	28 <sup>17</sup>	24 <sup>19</sup>	28 <sup>50</sup>	0 <sup>19</sup>
T 21	10 2 33	2 <sup>12</sup> 11	2 <sup>3</sup>	13 <sup>8</sup>	23 <sup>10</sup>	6 <sup>21</sup>	11 <sup>25</sup>	5 <sup>4</sup>	28 <sup>17</sup>	24 <sup>20</sup>	28 <sup>50</sup>	0 <sup>20</sup>
W 22	10 6 29	3 <sup>12</sup> 29	3 <sup>4</sup>	16 <sup>8</sup>	24 <sup>46</sup>	6 <sup>49</sup>	11 <sup>30</sup>	5 <sup>6</sup>	28 <sup>18</sup>	24 <sup>20</sup>	28 <sup>51</sup>	0 <sup>20</sup>
T 23	10 10 26	4 <sup>12</sup> 44	4 <sup>5</sup>	19 <sup>10</sup>	26 <sup>22</sup>	7 <sup>16</sup>	11 <sup>36</sup>	5 <sup>8</sup>	28 <sup>19</sup>	24 <sup>20</sup>	28 <sup>51</sup>	0 <sup>21</sup>
F 24	10 14 23	5 <sup>12</sup> 58	5 <sup>6</sup>	22 <sup>15</sup>	27 <sup>58</sup>	7 <sup>43</sup>	11 <sup>41</sup>	5 <sup>10</sup>	28 <sup>19</sup>	24 <sup>21</sup>	28 <sup>51</sup>	0 <sup>22</sup>
S 25	10 18 19	6 <sup>13</sup> 10	6 <sup>8</sup>	25 <sup>24</sup>	29 <sup>34</sup>	8 <sup>11</sup>	11 <sup>46</sup>	5 <sup>11</sup>	28 <sup>20</sup>	24 <sup>21</sup>	28 <sup>51</sup>	0 <sup>23</sup>
S 26	10 22 16	7 <sup>13</sup> 19	7 <sup>10</sup>	28 <sup>37</sup>	1 <sup>10</sup>	8 <sup>38</sup>	11 <sup>52</sup>	5 <sup>13</sup>	28 <sup>20</sup>	24 <sup>21</sup>	28 <sup>51</sup>	0 <sup>23</sup>
M 27	10 26 12	8 <sup>13</sup> 27	8 <sup>12</sup>	1 <sup>53</sup>	2 <sup>46</sup>	9 <sup>5</sup>	11 <sup>57</sup>	5 <sup>15</sup>	28 <sup>21</sup>	24 <sup>22</sup>	28 <sup>51</sup>	0 <sup>24</sup>
T 28	10 30 9	9 <sup>13</sup> 33	9 <sup>14</sup>	5 <sup>13</sup>	4 <sup>22</sup>	9 <sup>33</sup>	12 <sup>3</sup>	5 <sup>17</sup>	28 <sup>22</sup>	24 <sup>22</sup>	28 <sup>52</sup>	0 <sup>25</sup>
W 29	10 34 5	10 <sup>13</sup> 36	10 <sup>16</sup>	8 <sup>38</sup>	5 <sup>58</sup>	10 <sup>0</sup>	12 <sup>8</sup>	5 <sup>19</sup>	28 <sup>22</sup>	24 <sup>23</sup>	28 <sup>52</sup>	0 <sup>25</sup>

Delta T = 26.39 sec. Greg. Calendar created from Swiss Ephemeris, Copyright Astrodiens AG [13.11.2015]

SWISS EPHEMERIS for the year 1668  
heliocentric

MARCH 1668 GC

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♁
T 1	10 38 2	11 <sup>11</sup> 13'38	11 <sup>11</sup> 18	12 <sup>22</sup> 8	7 <sup>8</sup> 34	10 <sup>12</sup> 28	12 <sup>12</sup> 13	5 <sup>22</sup> 21	28 <sup>22</sup> 23	24 <sup>22</sup> 23	28 <sup>22</sup> 52	0 <sup>22</sup> 26
F 2	10 41 58	12°13'39	12°19	15°43	9°10	10°55	12°19	5°22	28°24	24°23	28°52	0°27
S 3	10 45 55	13°13'37	13°20	19°23	10°47	11°23	12°24	5°24	28°24	24°24	28°52	0°28
S 4	10 49 52	14°13'34	14°21	23°10	12°23	11°50	12°30	5°26	28°25	24°24	28°52	0°28
M 5	10 53 48	15°13'29	15°22	27° 2	13°59	12°18	12°35	5°28	28°26	24°24	28°53	0°29
T 6	10 57 45	16°13'23	16°22	1 <sup>11</sup> 1	15°35	12°46	12°40	5°30	28°26	24°25	28°53	0°30
W 7	11 1 41	17°13'15	17°22	5° 8	17°11	13°13	12°46	5°32	28°27	24°25	28°53	0°30
T 8	11 5 38	18°13'06	18°21	9°21	18°48	13°41	12°51	5°33	28°28	24°25	28°53	0°31
F 9	11 9 34	19°12'55	19°19	13°43	20°24	14° 9	12°57	5°35	28°28	24°26	28°53	0°32
S 10	11 13 31	20°12'42	20°18	18°12	22° 0	14°36	13° 2	5°37	28°29	24°26	28°54	0°33
S 11	11 17 27	21°12'27	21°16	22°50	23°37	15° 4	13° 8	5°39	28°30	24°26	28°54	0°33
M 12	11 21 24	22°12'10	22°14	27°36	25°13	15°32	13°13	5°41	28°30	24°27	28°54	0°34
T 13	11 25 21	23°11'52	23°12	2 <sup>11</sup> 32	26°50	16° 0	13°18	5°43	28°31	24°27	28°54	0°35
W 14	11 29 17	24°11'31	24° 9	7°36	28°26	16°28	13°24	5°44	28°31	24°28	28°54	0°35
T 15	11 33 14	25°11'08	25° 7	12°50	0 <sup>11</sup> 3	16°56	13°29	5°46	28°32	24°28	28°54	0°36
F 16	11 37 10	26°10'43	26° 5	18°13	1°39	17°24	13°35	5°48	28°33	24°28	28°55	0°37
S 17	11 41 7	27°10'16	27° 3	23°44	3°16	17°52	13°40	5°50	28°33	24°29	28°55	0°38
S 18	11 45 3	28° 9'46	28° 2	29°24	4°52	18°20	13°45	5°52	28°34	24°29	28°55	0°38
M 19	11 49 0	29° 9'15	29° 0	5 <sup>11</sup> 13	6°29	18°48	13°51	5°54	28°35	24°29	28°55	0°39
T 20	11 52 56	0 <sup>11</sup> 8'41	29°59	11° 9	8° 6	19°16	13°56	5°56	28°35	24°30	28°55	0°40
W 21	11 56 53	1° 8'05	0 <sup>11</sup> 59	17°12	9°42	19°44	14° 2	5°57	28°36	24°30	28°56	0°41
T 22	12 0 49	2° 7'26	1°58	23°20	11°19	20°12	14° 7	5°59	28°37	24°30	28°56	0°41
F 23	12 4 46	3° 6'45	2°58	29°34	12°56	20°40	14°12	6° 1	28°37	24°31	28°56	0°42
S 24	12 8 43	4° 6'02	3°59	5 <sup>11</sup> 50	14°32	21° 9	14°18	6° 3	28°38	24°31	28°56	0°43
S 25	12 12 39	5° 5'17	4°59	12° 9	16° 9	21°37	14°23	6° 5	28°39	24°31	28°56	0°43
M 26	12 16 36	6° 4'29	6° 0	18°28	17°46	22° 5	14°29	6° 7	28°39	24°32	28°56	0°44
T 27	12 20 32	7° 3'39	7° 1	24°46	19°23	22°33	14°34	6° 8	28°40	24°32	28°57	0°45
W 28	12 24 29	8° 2'47	8° 2	1 <sup>11</sup> 2	21° 0	23° 2	14°39	6°10	28°41	24°33	28°57	0°46
T 29	12 28 25	9° 1'52	9° 3	7°14	22°37	23°30	14°45	6°12	28°41	24°33	28°57	0°46
F 30	12 32 22	10° 0'56	10° 4	13°20	24°14	23°59	14°50	6°14	28°42	24°33	28°57	0°47
S 31	12 36 18	10 <sup>11</sup> 59'58	11 <sup>11</sup> 5	19 <sup>11</sup> 20	25 <sup>11</sup> 51	24 <sup>11</sup> 27	14 <sup>11</sup> 56	6 <sup>11</sup> 16	28 <sup>11</sup> 42	24 <sup>11</sup> 34	28 <sup>11</sup> 57	0 <sup>11</sup> 48

Delta T = 26.28 sec.

Greg. Calendar

APRIL 1668 GC

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♁
S 1	12 40 15	11 <sup>11</sup> 58'58	12 <sup>11</sup> 5	25 <sup>11</sup> 13	27 <sup>11</sup> 28	24 <sup>11</sup> 56	15 <sup>11</sup> 8	6 <sup>11</sup> 18	28 <sup>11</sup> 43	24 <sup>11</sup> 34	28 <sup>11</sup> 57	0 <sup>11</sup> 48
M 2	12 44 12	12°57'56	13° 5	0 <sup>11</sup> 57	29° 5	25°24	15° 6	6°19	28°44	24°34	28°58	0°49
T 3	12 48 8	13°56'53	14° 5	6°33	0 <sup>11</sup> 42	25°53	15°12	6°21	28°44	24°35	28°58	0°50
W 4	12 52 5	14°55'48	15° 4	11°59	2°19	26°21	15°17	6°23	28°45	24°35	28°58	0°51
T 5	12 56 1	15°54'41	16° 3	17°16	3°56	26°50	15°22	6°25	28°46	24°35	28°58	0°51
F 6	12 59 58	16°53'33	17° 1	22°23	5°33	27°19	15°28	6°27	28°46	24°36	28°58	0°52
S 7	13 3 54	17°52'22	17°59	27°20	7°10	27°48	15°33	6°29	28°47	24°36	28°59	0°53
S 8	13 7 51	18°51'10	18°57	2 <sup>11</sup> 8	8°48	28°16	15°39	6°31	28°48	24°36	28°59	0°53
M 9	13 11 47	19°49'56	19°54	6°47	10°25	28°45	15°44	6°32	28°48	24°37	28°59	0°54
T 10	13 15 44	20°48'40	20°51	11°16	12° 2	29°14	15°49	6°34	28°49	24°37	28°59	0°55
W 11	13 19 41	21°47'22	21°48	15°38	13°39	29°43	15°55	6°36	28°50	24°38	28°59	0°56
T 12	13 23 37	22°46'03	22°45	19°50	15°17	0 <sup>11</sup> 12	16° 0	6°38	28°50	24°38	28°59	0°56
F 13	13 27 34	23°44'41	23°42	23°56	16°54	0°41	16° 6	6°40	28°51	24°38	29° 0	0°57
S 14	13 31 30	24°43'18	24°39	27°53	18°31	1°10	16°11	6°42	28°52	24°39	29° 0	0°58
S 15	13 35 27	25°41'52	25°36	1 <sup>11</sup> 44	20° 9	1°39	16°16	6°43	28°52	24°39	29° 0	0°58
M 16	13 39 23	26°40'24	26°33	5°29	21°46	2° 8	16°22	6°45	28°53	24°39	29° 0	0°59
T 17	13 43 20	27°38'54	27°31	9° 7	23°23	2°37	16°27	6°47	28°53	24°40	29° 0	1° 0
W 18	13 47 16	28°37'22	28°29	12°40	25° 1	3° 7	16°33	6°49	28°54	24°40	29° 1	1° 1
T 19	13 51 13	29°35'48	29°27	16° 7	26°38	3°36	16°38	6°51	28°55	24°40	29° 1	1° 1
F 20	13 55 10	0 <sup>11</sup> 34'12	0 <sup>11</sup> 25	19°29	28°16	4° 5	16°43	6°53	28°55	24°41	29° 1	1° 2
S 21	13 59 6	1°32'34	1°24	22°47	29°53	4°34	16°49	6°54	28°56	24°41	29° 1	1° 3
S 22	14 3 3	2°30'53	2°23	26° 1	1 <sup>11</sup> 31	5° 4	16°54	6°56	28°57	24°42	29° 1	1° 3
M 23	14 6 59	3°29'11	3°23	29°11	3° 8	5°33	16°59	6°58	28°57	24°42	29° 1	1° 4
T 24	14 10 56	4°27'26	4°22	2 <sup>11</sup> 18	4°46	6° 3	17° 5	7° 0	28°58	24°42	29° 2	1° 5
W 25	14 14 52	5°25'40	5°22	5°21	6°23	6°32	17°10	7° 2	28°59	24°43	29° 2	1° 6
T 26	14 18 49	6°23'51	6°22	8°21	8° 1	7° 2	17°16	7° 4	28°59	24°43	29° 2	1° 6
F 27	14 22 45	7°22'01	7°22	11°19	9°38	7°31	17°21	7° 6	29° 0	24°43	29° 2	1° 7
S 28	14 26 42	8°20'09	8°22	14°14	11°16	8° 1	17°26	7° 7	29° 1	24°44	29° 2	1° 8
S 29	14 30 39	9°18'15	9°22	17° 7	12°53	8°31	17°32	7° 9	29° 1	24°44	29° 3	1° 8
M 30	14 34 35	10 <sup>11</sup> 16'20	10 <sup>11</sup> 22	19 <sup>11</sup> 59	14 <sup>11</sup> 31	9 <sup>11</sup> 0	17 <sup>11</sup> 37	7 <sup>11</sup> 11	29 <sup>11</sup> 2	24 <sup>11</sup> 44	29 <sup>11</sup> 3	1 <sup>11</sup> 9

Delta T = 26.18 sec.

Greg. Calendar

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SWISS EPHEMERIS for the year 1668  
heliocentric

MAY 1668 GC

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♄
T 1	14 38 32	11♈14'24	11♈21	22♈48	16♈ 8	9♈30	17♈43	7♈13	29♈ 3	24♈45	29♈ 3	1♈10
W 2	14 42 28	12°12'26	12°20	25°37	17°46	10° 0	17°48	7°15	29° 3	24°45	29° 3	1°11
T 3	14 46 25	13°10'27	13°19	28°24	19°24	10°30	17°53	7°17	29° 4	24°45	29° 3	1°11
F 4	14 50 21	14° 8'26	14°17	1♉10	21° 1	11° 0	17°59	7°18	29° 4	24°46	29° 3	1°12
S 5	14 54 18	15° 6'25	15°15	3°56	22°39	11°30	18° 4	7°20	29° 5	24°46	29° 4	1°13
S 6	14 58 14	16° 4'21	16°12	6°41	24°16	12° 0	18° 9	7°22	29° 6	24°47	29° 4	1°13
M 7	15 2 11	17° 2'17	17° 9	9°26	25°54	12°30	18°15	7°24	29° 6	24°47	29° 4	1°14
T 8	15 6 8	18° 0'11	18° 5	12°10	27°31	13° 0	18°20	7°26	29° 7	24°47	29° 4	1°15
W 9	15 10 4	18°58'04	19° 1	14°55	29° 9	13°30	18°26	7°28	29° 8	24°48	29° 4	1°16
T 10	15 14 1	19°55'55	19°58	17°40	0♐46	14° 0	18°31	7°29	29° 8	24°48	29° 4	1°16
F 11	15 17 57	20°53'45	20°54	20°26	2°24	14°31	18°36	7°31	29° 9	24°48	29° 5	1°17
S 12	15 21 54	21°51'34	21°50	23°12	4° 1	15° 1	18°42	7°33	29°10	24°49	29° 5	1°18
S 13	15 25 50	22°49'21	22°46	25°59	5°39	15°31	18°47	7°35	29°10	24°49	29° 5	1°18
M14	15 29 47	23°47'07	23°42	28°47	7°16	16° 2	18°52	7°37	29°11	24°49	29° 5	1°19
T 15	15 33 43	24°44'51	24°38	1♐37	8°54	16°32	18°58	7°39	29°12	24°50	29° 5	1°20
W16	15 37 40	25°42'34	25°35	4°28	10°31	17° 3	19° 3	7°41	29°12	24°50	29° 6	1°21
T 17	15 41 37	26°40'15	26°32	7°21	12° 9	17°33	19° 9	7°42	29°13	24°50	29° 6	1°21
F 18	15 45 33	27°37'55	27°29	10°16	13°46	18° 4	19°14	7°44	29°14	24°51	29° 6	1°22
S 19	15 49 30	28°35'33	28°27	13°14	15°23	18°35	19°19	7°46	29°14	24°51	29° 6	1°23
S 20	15 53 26	29°33'09	29°24	16°13	17° 1	19° 5	19°25	7°48	29°15	24°52	29° 6	1°23
M21	15 57 23	0♑30'44	0♑23	19°16	18°38	19°36	19°30	7°50	29°15	24°52	29° 6	1°24
T 22	16 1 19	1°28'18	1°21	22°21	20°15	20° 7	19°35	7°52	29°16	24°52	29° 7	1°25
W23	16 5 16	2°25'50	2°20	25°30	21°53	20°38	19°41	7°53	29°17	24°53	29° 7	1°26
T 24	16 9 12	3°23'21	3°19	28°43	23°30	21° 9	19°46	7°55	29°17	24°53	29° 7	1°26
F 25	16 13 9	4°20'50	4°19	1♐59	25° 7	21°40	19°52	7°57	29°18	24°53	29° 7	1°27
S 26	16 17 6	5°18'19	5°18	5°20	26°44	22°11	19°57	7°59	29°19	24°54	29° 7	1°28
S 27	16 21 2	6°15'46	6°17	8°45	28°21	22°42	20° 2	8° 1	29°19	24°54	29° 8	1°28
M28	16 24 59	7°13'13	7°17	12°15	29°58	23°13	20° 8	8° 3	29°20	24°54	29° 8	1°29
T 29	16 28 55	8°10'39	8°16	15°50	1♑35	23°44	20°13	8° 5	29°21	24°55	29° 8	1°30
W30	16 32 52	9° 8'04	9°15	19°30	3°12	24°15	20°18	8° 6	29°21	24°55	29° 8	1°31
T 31	16 36 48	10♑5'28	10♑13	23♐17	4♑49	24♈47	20♑24	8♐ 8	29♐22	24♑56	29♈ 8	1♑31

Delta T = 26.09 sec.

Greg. Calendar

JUNE 1668 GC

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♄
F 1	16 40 45	11♉2'52	11♉11	27♐10	6♑26	25♈18	20♑29	8♐10	29♐23	24♑56	29♈ 8	1♑32
S 2	16 44 41	12° 0'15	12° 9	1♑ 9	8° 3	25°49	20°34	8°12	29°23	24°56	29° 9	1°33
S 3	16 48 38	12°57'37	13° 6	5°16	9°40	26°21	20°40	8°14	29°24	24°57	29° 9	1°33
M 4	16 52 35	13°54'59	14° 3	9°29	11°17	26°52	20°45	8°16	29°25	24°57	29° 9	1°34
T 5	16 56 31	14°52'20	14°59	13°51	12°54	27°24	20°51	8°18	29°25	24°57	29° 9	1°35
W 6	17 0 28	15°49'41	15°55	18°21	14°31	27°55	20°56	8°19	29°26	24°58	29° 9	1°36
T 7	17 4 24	16°47'01	16°51	22°59	16° 7	28°27	21° 1	8°21	29°26	24°58	29°10	1°36
F 8	17 8 21	17°44'21	17°47	27°46	17°44	28°59	21° 7	8°23	29°27	24°58	29°10	1°37
S 9	17 12 17	18°41'40	18°43	2♑41	19°21	29°31	21°12	8°25	29°28	24°59	29°10	1°38
S 10	17 16 14	19°38'59	19°38	7°46	20°57	0♑ 2	21°17	8°27	29°28	24°59	29°10	1°38
M11	17 20 10	20°36'17	20°34	13° 0	22°34	0°34	21°23	8°29	29°29	24°59	29°10	1°39
T 12	17 24 7	21°33'34	21°30	18°23	24°10	1° 6	21°28	8°30	29°30	25° 0	29°10	1°40
W13	17 28 4	22°30'51	22°25	23°55	25°47	1°38	21°33	8°32	29°30	25° 0	29°11	1°41
T 14	17 32 0	23°28'07	23°21	29°35	27°23	2°10	21°39	8°34	29°31	25° 1	29°11	1°41
F 15	17 35 57	24°25'23	24°18	5♑24	28°59	2°42	21°44	8°36	29°32	25° 1	29°11	1°42
S 16	17 39 53	25°22'37	25°14	11°20	0♐36	3°15	21°50	8°38	29°32	25° 1	29°11	1°43
S 17	17 43 50	26°19'51	26°11	17°23	2°12	3°47	21°55	8°40	29°33	25° 2	29°11	1°43
M18	17 47 46	27°17'05	27° 8	23°32	3°48	4°19	22° 0	8°42	29°34	25° 2	29°12	1°44
T 19	17 51 43	28°14'17	28° 6	29°45	5°24	4°51	22° 6	8°43	29°34	25° 2	29°12	1°45
W20	17 55 39	29°11'29	29° 4	6♐ 2	7° 0	5°24	22°11	8°45	29°35	25° 3	29°12	1°46
T 21	17 59 36	0♑ 8'41	0♑ 3	12°21	8°36	5°56	22°16	8°47	29°36	25° 3	29°12	1°46
F 22	18 3 33	1° 5'52	1° 1	18°40	10°12	6°29	22°22	8°49	29°36	25° 3	29°12	1°47
S 23	18 7 29	2° 3'03	2° 0	24°58	11°48	7° 1	22°27	8°51	29°37	25° 4	29°12	1°48
S 24	18 11 26	3° 0'13	2°59	1♑14	13°24	7°34	22°32	8°53	29°37	25° 4	29°13	1°48
M25	18 15 22	3°57'24	3°58	7°25	15° 0	8° 7	22°38	8°54	29°38	25° 5	29°13	1°49
T 26	18 19 19	4°54'34	4°58	13°32	16°36	8°39	22°43	8°56	29°39	25° 5	29°13	1°50
W27	18 23 15	5°51'45	5°57	19°31	18°12	9°12	22°48	8°58	29°39	25° 5	29°13	1°51
T 28	18 27 12	6°48'55	6°55	25°24	19°48	9°45	22°54	9° 0	29°40	25° 6	29°13	1°51
F 29	18 31 9	7°46'05	7°54	1♒ 8	21°23	10°18	22°59	9° 2	29°41	25° 6	29°14	1°52
S 30	18 35 5	8♑43'16	8♑52	6♑43	22♈59	10♑51	23♑ 5	9♐ 4	29♐41	25♑ 6	29♈14	1♑53

Delta T = 26.00 sec.

Greg. Calendar

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SWISS EPHEMERIS for the year 1668  
heliocentric

JULY 1668 GC

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♁
S 1	18 39 2	9°30'27	9°349	12°Ω 9	24♁35	11°♂24	23♁10	9°♁ 6	29°♁42	25°♁ 7	29°♁14	1°♁53
M 2	18 42 58	10°37'39	10°46	17°26	26°10	11°57	23°15	9° 7	29°43	25° 7	29°14	1°54
T 3	18 46 55	11°34'51	11°43	22°32	27°46	12°30	23°21	9° 9	29°43	25° 7	29°14	1°55
W 4	18 50 51	12°32'03	12°40	27°29	29°21	13° 3	23°26	9°11	29°44	25° 8	29°14	1°56
T 5	18 54 48	13°29'16	13°36	2♁17	0°♂57	13°36	23°31	9°13	29°45	25° 8	29°15	1°56
F 6	18 58 44	14°26'29	14°32	6°55	2°32	14°10	23°37	9°15	29°45	25° 8	29°15	1°57
S 7	19 2 41	15°23'43	15°28	11°25	4° 7	14°43	23°42	9°17	29°46	25° 9	29°15	1°58
S 8	19 6 38	16°20'56	16°23	15°46	5°43	15°17	23°47	9°19	29°47	25° 9	29°15	1°58
M 9	19 10 34	17°18'11	17°19	19°58	7°18	15°50	23°53	9°20	29°47	25°10	29°15	1°59
T 10	19 14 31	18°15'26	18°14	24° 3	8°53	16°24	23°58	9°22	29°48	25°10	29°15	2° 0
W11	19 18 27	19°12'41	19°10	28° 1	10°29	16°57	24° 3	9°24	29°49	25°10	29°16	2° 1
T 12	19 22 24	20° 9'56	20° 5	1♁52	12° 4	17°31	24° 9	9°26	29°49	25°11	29°16	2° 1
F 13	19 26 20	21° 7'11	21° 1	5°36	13°39	18° 4	24°14	9°28	29°50	25°11	29°16	2° 2
S 14	19 30 17	22° 4'27	21° 57	9°14	15°14	18°38	24°19	9°30	29°50	25°11	29°16	2° 3
S 15	19 34 13	23° 1'43	22°54	12°46	16°49	19°12	24°25	9°31	29°51	25°12	29°16	2° 3
M16	19 38 10	23°58'59	23°51	16°14	18°24	19°46	24°30	9°33	29°52	25°12	29°17	2° 4
T 17	19 42 7	24°56'16	24°48	19°36	20° 0	20°20	24°35	9°35	29°52	25°12	29°17	2° 5
W18	19 46 3	25°53'33	25°45	22°54	21°35	20°54	24°41	9°37	29°53	25°13	29°17	2° 6
T 19	19 50 0	26°50'50	26°43	26° 7	23°10	21°28	24°46	9°39	29°54	25°13	29°17	2° 6
F 20	19 53 56	27°48'08	27°42	29°17	24°45	22° 2	24°51	9°41	29°54	25°14	29°17	2° 7
S 21	19 57 53	28°45'26	28°40	2♁24	26°20	22°36	24°57	9°43	29°55	25°14	29°17	2° 8
S 22	20 1 49	29°42'45	29°39	5°27	27°55	23°10	25° 2	9°44	29°56	25°14	29°18	2° 8
M23	20 5 46	0°♁40'04	0°♁39	8°27	29°30	23°45	25° 7	9°46	29°56	25°15	29°18	2° 9
T 24	20 9 42	1°37'24	1°38	11°25	1♁ 4	24°19	25°13	9°48	29°57	25°15	29°18	2°10
W25	20 13 39	2°34'45	2°37	14°20	2°39	24°53	25°18	9°50	29°58	25°15	29°18	2°10
T 26	20 17 36	3°32'07	3°36	17°13	4°14	25°28	25°23	9°52	29°58	25°16	29°18	2°11
F 27	20 21 32	4°29'29	4°35	20° 4	5°49	26° 2	25°29	9°54	29°59	25°16	29°19	2°12
S 28	20 25 29	5°26'53	5°34	22°54	7°24	26°37	25°34	9°56	29°59	25°16	29°19	2°13
S 29	20 29 25	6°24'18	6°32	25°42	8°59	27°11	25°39	9°57	0°♁ 0	25°17	29°19	2°13
M30	20 33 22	7°21'44	7°30	28°29	10°34	27°46	25°45	9°59	0° 1	25°17	29°19	2°14
T 31	20 37 18	8°♁19'12	8°♁28	1°♁16	12°♁ 9	28°♁21	25°♁50	10°♁ 1	0°♁ 1	25°♁17	29°♁19	2°♁15

Delta T = 25.92 sec. Greg. Calendar

AUGUST 1668 GC

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♁
W 1	20 41 15	9°♁16'40	9°♁25	4°♁ 1	13°♁43	28°♁55	25°♁55	10°♁ 3	0°♁ 2	25°♁18	29°♁19	2°♁15
T 2	20 45 11	10°14'10	10°22	6°46	15°18	29°30	26° 1	10° 5	0° 3	25°18	29°20	2°16
F 3	20 49 8	11°11'42	11°19	9°31	16°53	0°♁ 5	26° 6	10° 7	0° 3	25°19	29°20	2°17
S 4	20 53 5	12° 9'15	12°15	12°16	18°28	0°40	26°11	10° 8	0° 4	25°19	29°20	2°18
S 5	20 57 1	13° 6'49	13°12	15° 0	20° 3	1°15	26°17	10°10	0° 5	25°19	29°20	2°18
M 6	21 0 58	14° 4'24	14° 8	17°45	21°37	1°50	26°22	10°12	0° 5	25°20	29°20	2°19
T 7	21 4 54	15° 2'00	15° 4	20°31	23°12	2°25	26°27	10°14	0° 6	25°20	29°21	2°20
W 8	21 8 51	15°59'38	15°59	23°17	24°47	3° 0	26°33	10°16	0° 7	25°20	29°21	2°20
T 9	21 12 47	16°57'17	16°55	26° 4	26°22	3°36	26°38	10°18	0° 7	25°21	29°21	2°21
F 10	21 16 44	17°54'57	17°51	28°53	27°57	4°11	26°43	10°20	0° 8	25°21	29°21	2°22
S 11	21 20 40	18°52'39	18°47	1°♁43	29°32	4°46	26°49	10°21	0° 9	25°21	29°21	2°23
S 12	21 24 37	19°50'21	19°44	4°34	1°♁ 6	5°22	26°54	10°23	0° 9	25°22	29°21	2°23
M13	21 28 34	20°48'05	20°41	7°27	2°41	5°57	26°59	10°25	0°10	25°22	29°22	2°24
T 14	21 32 30	21°45'49	21°38	10°22	4°16	6°32	27° 5	10°27	0°11	25°23	29°22	2°25
W15	21 36 27	22°43'35	22°35	13°19	5°51	7° 8	27°10	10°29	0°11	25°23	29°22	2°25
T 16	21 40 23	23°41'22	23°33	16°19	7°26	7°44	27°15	10°31	0°12	25°23	29°22	2°26
F 17	21 44 20	24°39'10	24°31	19°22	9° 1	8°19	27°21	10°33	0°12	25°24	29°22	2°27
S 18	21 48 16	25°37'00	25°30	22°28	10°35	8°55	27°26	10°34	0°13	25°24	29°23	2°27
S 19	21 52 13	26°34'50	26°29	25°37	12°10	9°31	27°31	10°36	0°14	25°24	29°23	2°28
M20	21 56 10	27°32'42	27°29	28°49	13°45	10° 6	27°37	10°38	0°14	25°25	29°23	2°29
T 21	22 0 6	28°30'35	28°29	2°♁ 6	15°20	10°42	27°42	10°40	0°15	25°25	29°23	2°30
W22	22 4 3	29°28'30	29°28	5°26	16°55	11°18	27°47	10°42	0°16	25°25	29°23	2°30
T 23	22 7 59	0°♁26'26	0°♁28	8°51	18°30	11°54	27°53	10°44	0°16	25°26	29°23	2°31
F 24	22 11 56	1°24'24	1°28	12°22	20° 5	12°30	27°58	10°46	0°17	25°26	29°24	2°32
S 25	22 15 52	2°22'23	2°28	15°57	21°40	13° 6	28° 3	10°47	0°18	25°26	29°24	2°32
S 26	22 19 49	3°20'24	3°27	19°38	23°15	13°42	28° 9	10°49	0°18	25°27	29°24	2°33
M27	22 23 45	4°18'28	4°26	23°24	24°50	14°18	28°14	10°51	0°19	25°27	29°24	2°34
T 28	22 27 42	5°16'33	5°25	27°17	26°25	14°54	28°19	10°53	0°20	25°28	29°24	2°35
W29	22 31 38	6°14'40	6°24	1°♁17	28° 0	15°31	28°25	10°55	0°20	25°28	29°24	2°35
T 30	22 35 35	7°12'49	7°22	5°24	29°35	16° 7	28°30	10°57	0°21	25°28	29°25	2°36
F 31	22 39 32	8°♁11'01	8°♁20	9°♁38	1°♁10	16°♁43	28°♁35	10°♁58	0°♁22	25°♁29	29°♁25	2°♁37

Delta T = 25.84 sec. Greg. Calendar created from Swiss Ephemeris, Copyright Astrodiens AG [13.11.2015]

SWISS EPHEMERIS for the year 1668  
heliocentric

SEPTEMBER 1668 GC

00:00 UT

Day	Sid.t	Terra	☾	♁	♂	♄	♃	♆	♅	♁	♂	
S 1	22 43 28	9°14'	9°17'	13°59'	2°45'	17°19'	28°40'	11°00'	0°22'	25°29'	29°25'	2°37'
S 2	22 47 25	10° 7'29"	10°15'	18°29'	4°20'	17°56'	28°46'	11° 2'	0°23'	25°29'	29°25'	2°38'
M 3	22 51 21	11° 5'46"	11°12'	23° 8'	5°55'	18°32'	28°51'	11° 4'	0°23'	25°30'	29°25'	2°39'
T 4	22 55 18	12° 4'05"	12° 8'	27°55'	7°31'	19° 9'	28°56'	11° 6'	0°24'	25°30'	29°26'	2°39'
W 5	22 59 14	13° 2'26"	13° 5'	2°51'	9° 6'	19°45'	29° 2'	11° 8'	0°25'	25°30'	29°26'	2°40'
T 6	23 3 11	14° 0'49"	14° 2'	7°56'	10°41'	20°22'	29° 7'	11°10'	0°25'	25°31'	29°26'	2°41'
F 7	23 7 7	14°59'14"	14°58'	13°10'	12°16'	20°59'	29°12'	11°11'	0°26'	25°31'	29°26'	2°42'
S 8	23 11 4	15°57'41"	15°55'	18°33'	13°51'	21°35'	29°18'	11°13'	0°27'	25°31'	29°26'	2°42'
S 9	23 15 1	16°56'09"	16°52'	24° 5'	15°27'	22°12'	29°23'	11°15'	0°27'	25°32'	29°26'	2°43'
M10	23 18 57	17°54'39"	17°49'	29°46'	17° 2'	22°49'	29°28'	11°17'	0°28'	25°32'	29°27'	2°44'
T 11	23 22 54	18°53'11"	18°46'	5°35'	18°37'	23°25'	29°34'	11°19'	0°29'	25°33'	29°27'	2°44'
W12	23 26 50	19°51'45"	19°44'	11°32'	20°12'	24° 2'	29°39'	11°21'	0°29'	25°33'	29°27'	2°45'
T 13	23 30 47	20°50'20"	20°42'	17°35'	21°48'	24°39'	29°44'	11°23'	0°30'	25°33'	29°27'	2°46'
F 14	23 34 43	21°48'57"	21°41'	23°44'	23°23'	25°16'	29°49'	11°24'	0°31'	25°34'	29°27'	2°46'
S 15	23 38 40	22°47'36"	22°40'	29°57'	24°59'	25°53'	29°55'	11°26'	0°31'	25°34'	29°28'	2°47'
S 16	23 42 36	23°46'16"	23°39'	6°14'	26°34'	26°30'	0°11'	11°28'	0°32'	25°34'	29°28'	2°48'
M17	23 46 33	24°44'58"	24°39'	12°33'	28° 9'	27° 7'	0° 5'	11°30'	0°32'	25°35'	29°28'	2°49'
T 18	23 50 30	25°43'42"	25°39'	18°52'	29°45'	27°44'	0°11'	11°32'	0°33'	25°35'	29°28'	2°49'
W19	23 54 26	26°42'27"	26°40'	25°10'	1°20'	28°21'	0°16'	11°34'	0°34'	25°35'	29°28'	2°50'
T 20	23 58 23	27°41'15"	27°40'	1°25'	2°56'	28°58'	0°21'	11°36'	0°34'	25°36'	29°28'	2°51'
F 21	0 2 19	28°40'04"	28°41'	7°37'	4°31'	29°36'	0°27'	11°37'	0°35'	25°36'	29°29'	2°51'
S 22	0 6 16	29°38'55"	29°42'	13°43'	6° 7'	0°13'	0°32'	11°39'	0°36'	25°36'	29°29'	2°52'
S 23	0 10 12	0°37'49"	0°42'	19°43'	7°43'	0°50'	0°37'	11°41'	0°36'	25°37'	29°29'	2°53'
M24	0 14 9	1°36'44"	1°43'	25°35'	9°18'	1°27'	0°43'	11°43'	0°37'	25°37'	29°29'	2°54'
T 25	0 18 5	2°35'42"	2°43'	1°18'	10°54'	2° 5'	0°48'	11°45'	0°38'	25°38'	29°29'	2°54'
W26	0 22 2	3°34'43"	3°43'	6°53'	12°29'	2°42'	0°53'	11°47'	0°38'	25°38'	29°30'	2°55'
T 27	0 25 59	4°33'45"	4°43'	12°19'	14° 5'	3°19'	0°58'	11°49'	0°39'	25°38'	29°30'	2°56'
F 28	0 29 55	5°32'50"	5°42'	17°35'	15°41'	3°57'	1° 4'	11°50'	0°40'	25°39'	29°30'	2°56'
S 29	0 33 52	6°31'58"	6°41'	22°42'	17°17'	4°34'	1° 9'	11°52'	0°40'	25°39'	29°30'	2°57'
S 30	0 37 48	7°31'07"	7°40'	27°13'	18°52'	5°12'	1°14'	11°54'	0°41'	25°39'	29°30'	2°58'

Delta T = 25.77 sec.

Greg. Calendar

OCTOBER 1668 GC

00:00 UT

Day	Sid.t	Terra	☾	♁	♂	♄	♃	♆	♅	♁	♂	
M 1	0 41 45	8°30'19"	8°38'	2°26'	20°28'	5°49'	1°11'	11°56'	0°42'	25°40'	29°30'	2°58'
T 2	0 45 41	9°29'33"	9°36'	7° 4'	22° 4'	6°27'	1°25'	11°58'	0°42'	25°40'	29°31'	2°59'
W 3	0 49 38	10°28'50"	10°34'	11°33'	23°40'	7° 4'	1°30'	12° 0'	0°43'	25°40'	29°31'	3° 0'
T 4	0 53 34	11°28'08"	11°32'	15°54'	25°16'	7°42'	1°35'	12° 2'	0°43'	25°41'	29°31'	3° 1'
F 5	0 57 31	12°27'29"	12°29'	20° 6'	26°52'	8°19'	1°41'	12° 3'	0°44'	25°41'	29°31'	3° 1'
S 6	1 1 27	13°26'52"	13°27'	24°11'	28°27'	8°57'	1°46'	12° 5'	0°45'	25°42'	29°31'	3° 2'
S 7	1 5 24	14°26'17"	14°24'	28° 8'	0° 3'	9°35'	1°51'	12° 7'	0°45'	25°42'	29°31'	3° 3'
M 8	1 9 21	15°25'44"	15°22'	1°59'	1°39'	10°12'	1°57'	12° 9'	0°46'	25°42'	29°32'	3° 3'
T 9	1 13 17	16°25'13"	16°20'	5°43'	3°15'	10°50'	2° 2'	12°11'	0°47'	25°43'	29°32'	3° 4'
W10	1 17 14	17°24'43"	17°18'	9°21'	4°51'	11°28'	2° 7'	12°13'	0°47'	25°43'	29°32'	3° 5'
T 11	1 21 10	18°24'16"	18°17'	12°53'	6°28'	12° 6'	2°13'	12°15'	0°48'	25°43'	29°32'	3° 5'
F 12	1 25 7	19°23'51"	19°16'	16°20'	8° 4'	12°43'	2°18'	12°16'	0°49'	25°44'	29°32'	3° 6'
S 13	1 29 3	20°23'27"	20°15'	19°42'	9°40'	13°21'	2°23'	12°18'	0°49'	25°44'	29°33'	3° 7'
S 14	1 33 0	21°23'05"	21°15'	23° 0'	11°16'	13°59'	2°28'	12°20'	0°50'	25°44'	29°33'	3° 8'
M15	1 36 57	22°22'44"	22°15'	26°13'	12°52'	14°37'	2°34'	12°22'	0°51'	25°45'	29°33'	3° 8'
T 16	1 40 53	23°22'26"	23°16'	29°23'	14°28'	15°15'	2°39'	12°24'	0°51'	25°45'	29°33'	3° 9'
W17	1 44 50	24°22'09"	24°17'	2°29'	16° 4'	15°53'	2°44'	12°26'	0°52'	25°45'	29°33'	3°10'
T 18	1 48 46	25°21'53"	25°18'	5°32'	17°41'	16°30'	2°50'	12°28'	0°53'	25°46'	29°33'	3°10'
F 19	1 52 43	26°21'40"	26°20'	8°33'	19°17'	17° 8'	2°55'	12°29'	0°53'	25°46'	29°34'	3°11'
S 20	1 56 39	27°21'28"	27°22'	11°30'	20°53'	17°46'	3° 0'	12°31'	0°54'	25°47'	29°34'	3°12'
S 21	2 0 36	28°21'19"	28°23'	14°25'	22°30'	18°24'	3° 5'	12°33'	0°54'	25°47'	29°34'	3°12'
M22	2 4 32	29°21'12"	29°25'	17°18'	24° 6'	19° 2'	3°11'	12°35'	0°55'	25°47'	29°34'	3°13'
T 23	2 8 29	0°21'06"	0°26'	20°10'	25°43'	19°40'	3°16'	12°37'	0°56'	25°48'	29°34'	3°14'
W24	2 12 25	1°21'03"	1°28'	22°59'	27°19'	20°18'	3°21'	12°39'	0°56'	25°48'	29°35'	3°15'
T 25	2 16 22	2°21'02"	2°29'	25°48'	28°55'	20°56'	3°27'	12°41'	0°57'	25°48'	29°35'	3°15'
F 26	2 20 19	3°21'03"	3°30'	28°35'	0°32'	21°34'	3°32'	12°42'	0°58'	25°49'	29°35'	3°16'
S 27	2 24 15	4°21'07"	4°30'	1°21'	2° 8'	22°12'	3°37'	12°44'	0°58'	25°49'	29°35'	3°17'
S 28	2 28 12	5°21'12"	5°31'	4° 6'	3°45'	22°50'	3°42'	12°46'	0°59'	25°49'	29°35'	3°17'
M29	2 32 8	6°21'20"	6°30'	6°52'	5°22'	23°28'	3°48'	12°48'	1° 0'	25°50'	29°35'	3°18'
T 30	2 36 5	7°21'29"	7°30'	9°36'	6°58'	24° 6'	3°53'	12°50'	1° 0'	25°50'	29°36'	3°19'
W31	2 40 1	8°21'41"	8°29'	12°21'	8°11'	24°44'	3°58'	12°52'	1° 1'	25°50'	29°36'	3°19'

Delta T = 25.70 sec.

Greg. Calendar

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SWISS EPHEMERIS for the year 1668  
heliocentric

NOVEMBER 1668 GC

00:00 UT

Day	Sid.t	Terra	☾	♁	♂	♄	♃	♅	♁	♆	♇	♈
T 1	2 43 58	9♁21'54	9♁28	15♁ 6	10♁12	25♁22	4♁ 3	12♁54	1♁ 2	25♁51	29♁36	3♁20
F 2	2 47 54	10°22'10	10°27	17°51	11°48	26° 0	4° 9	12°55	1° 2	25°51	29°36	3°21
S 3	2 51 51	11°22'28	11°25	20°36	13°25	26°38	4°14	12°57	1° 3	25°52	29°36	3°22
S 4	2 55 48	12°22'47	12°24	23°23	15° 2	27°17	4°19	12°59	1° 4	25°52	29°37	3°22
M 5	2 59 44	13°23'08	13°22	26°10	16°39	27°55	4°25	13° 1	1° 4	25°52	29°37	3°23
T 6	3 3 41	14°23'31	14°21	28°58	18°15	28°33	4°30	13° 3	1° 5	25°53	29°37	3°24
W 7	3 7 37	15°23'56	15°19	1♁48	19°52	29°11	4°35	13° 5	1° 5	25°53	29°37	3°24
T 8	3 11 34	16°24'22	16°18	4°39	21°29	29°49	4°40	13° 7	1° 6	25°53	29°37	3°25
F 9	3 15 30	17°24'50	17°17	7°32	23° 6	0♁27	4°46	13° 8	1° 7	25°54	29°37	3°26
S 10	3 19 27	18°25'19	18°17	10°28	24°43	1° 5	4°51	13°10	1° 7	25°54	29°38	3°26
S 11	3 23 23	19°25'49	19°17	13°25	26°20	1°43	4°56	13°12	1° 8	25°54	29°38	3°27
M12	3 27 20	20°26'21	20°18	16°25	27°57	2°21	5° 1	13°14	1° 9	25°55	29°38	3°28
T 13	3 31 17	21°26'53	21°19	19°28	29°34	2°59	5° 7	13°16	1° 9	25°55	29°38	3°29
W14	3 35 13	22°27'27	22°20	22°33	1♁11	3°37	5°12	13°18	1°10	25°56	29°38	3°29
T 15	3 39 10	23°28'02	23°22	25°43	2°48	4°15	5°17	13°20	1°11	25°56	29°39	3°30
F 16	3 43 6	24°28'39	24°24	28°55	4°25	4°53	5°23	13°21	1°11	25°56	29°39	3°31
S 17	3 47 3	25°29'16	25°26	2♁12	6° 3	5°31	5°28	13°23	1°12	25°57	29°39	3°31
S 18	3 50 59	26°29'55	26°29	5°33	7°40	6° 9	5°33	13°25	1°13	25°57	29°39	3°32
M19	3 54 56	27°30'36	27°31	8°58	9°17	6°47	5°38	13°27	1°13	25°57	29°39	3°33
T 20	3 58 52	28°31'18	28°34	12°28	10°54	7°25	5°44	13°29	1°14	25°58	29°39	3°33
W21	4 2 49	29°32'01	29°36	16° 4	12°31	8° 3	5°49	13°31	1°15	25°58	29°40	3°34
T 22	4 6 46	0♁32'46	0♁38	19°45	14° 9	8°41	5°54	13°33	1°15	25°58	29°40	3°35
F 23	4 10 42	1°33'32	1°41	23°31	15°46	9°19	5°59	13°34	1°16	25°59	29°40	3°36
S 24	4 14 39	2°34'20	2°42	27°25	17°23	9°57	6° 5	13°36	1°16	25°59	29°40	3°36
S 25	4 18 35	3°35'09	3°44	1♁25	19° 1	10°35	6°10	13°38	1°17	25°59	29°40	3°37
M26	4 22 32	4°35'59	4°45	5°31	20°38	11°13	6°15	13°40	1°18	26° 0	29°41	3°38
T 27	4 26 28	5°36'51	5°46	9°46	22°15	11°51	6°20	13°42	1°18	26° 0	29°41	3°38
W28	4 30 25	6°37'45	6°47	14° 8	23°53	12°29	6°26	13°44	1°19	26° 1	29°41	3°39
T 29	4 34 22	7°38'39	7°47	18°38	25°30	13° 7	6°31	13°46	1°20	26° 1	29°41	3°40
F 30	4 38 18	8♁39'35	8♁47	23♁17	27♁ 8	13♁45	6♁36	13♁48	1♁20	26♁ 1	29♁41	3♁40

Delta T = 25.64 sec.

Greg. Calendar

DECEMBER 1668 GC

00:00 UT

Day	Sid.t	Terra	☾	♁	♂	♄	♃	♅	♁	♆	♇	♈
S 1	4 42 15	9♁40'32	9♁46	28♁ 4	28♁45	14♁23	6♁42	13♁49	1♁21	26♁ 2	29♁41	3♁41
S 2	4 46 11	10°41'31	10°45	3♁ 0	0♁22	15° 1	6°47	13°51	1°22	26° 2	29°42	3°42
M 3	4 50 8	11°42'31	11°45	8° 6	2° 0	15°39	6°52	13°53	1°22	26° 2	29°42	3°43
T 4	4 54 4	12°43'31	12°44	13°20	3°37	16°16	6°57	13°55	1°23	26° 3	29°42	3°43
W 5	4 58 1	13°44'33	13°43	18°43	5°15	16°54	7° 3	13°57	1°24	26° 3	29°42	3°44
T 6	5 1 57	14°45'36	14°42	24°16	6°52	17°32	7° 8	13°59	1°24	26° 3	29°42	3°45
F 7	5 5 54	15°46'39	15°41	29°57	8°30	18°10	7°13	14° 1	1°25	26° 4	29°43	3°45
S 8	5 9 51	16°47'42	16°41	5♁46	10° 8	18°47	7°18	14° 2	1°26	26° 4	29°43	3°46
S 9	5 13 47	17°48'46	17°41	11°43	11°45	19°25	7°24	14° 4	1°26	26° 5	29°43	3°47
M10	5 17 44	18°49'51	18°41	17°46	13°23	20° 3	7°29	14° 6	1°27	26° 5	29°43	3°47
T 11	5 21 40	19°50'56	19°42	23°55	15° 0	20°41	7°34	14° 8	1°27	26° 5	29°43	3°48
W12	5 25 37	20°52'01	20°43	0♁ 9	16°38	21°18	7°39	14°10	1°28	26° 6	29°43	3°49
T 13	5 29 33	21°53'06	21°45	6°26	18°15	21°56	7°45	14°12	1°29	26° 6	29°44	3°50
F 14	5 33 30	22°54'12	22°47	12°45	19°53	22°33	7°50	14°14	1°29	26° 6	29°44	3°50
S 15	5 37 26	23°55'18	23°50	19° 4	21°30	23°11	7°55	14°15	1°30	26° 7	29°44	3°51
S 16	5 41 23	24°56'24	24°52	25°22	23° 8	23°48	8° 0	14°17	1°31	26° 7	29°44	3°52
M17	5 45 20	25°57'31	25°55	1♁37	24°45	24°26	8° 6	14°19	1°31	26° 7	29°44	3°52
T 18	5 49 16	26°58'39	26°58	7°48	26°23	25° 3	8°11	14°21	1°32	26° 8	29°45	3°53
W19	5 53 13	27°59'46	28° 1	13°54	28° 1	25°41	8°16	14°23	1°33	26° 8	29°45	3°54
T 20	5 57 9	29° 0'54	29° 4	19°54	29°38	26°18	8°21	14°25	1°33	26° 8	29°45	3°54
F 21	6 1 6	0♁ 2'03	0♁ 7	25°45	1♁16	26°56	8°27	14°27	1°34	26° 9	29°45	3°55
S 22	6 5 2	1° 3'11	1° 9	1♁29	2°53	27°33	8°32	14°28	1°35	26° 9	29°45	3°56
S 23	6 8 59	2° 4'20	2°12	7° 4	4°31	28°10	8°37	14°30	1°35	26°10	29°45	3°57
M24	6 12 55	3° 5'30	3°14	12°29	6° 8	28°48	8°42	14°32	1°36	26°10	29°46	3°57
T 25	6 16 52	4° 6'40	4°15	17°45	7°46	29°25	8°48	14°34	1°37	26°10	29°46	3°58
W26	6 20 49	5° 7'50	5°17	22°51	9°23	0♁ 2	8°53	14°36	1°37	26°11	29°46	3°59
T 27	6 24 45	6° 9'00	6°18	27°48	11° 0	0°39	8°58	14°38	1°38	26°11	29°46	3°59
F 28	6 28 42	7°10'11	7°19	2♁35	12°38	1°16	9° 3	14°40	1°38	26°11	29°46	4° 0
S 29	6 32 38	8°11'22	8°19	7°13	14°15	1°53	9° 9	14°42	1°39	26°12	29°47	4° 1
S 30	6 36 35	9°12'34	9°19	11°41	15°53	2°30	9°14	14°43	1°40	26°12	29°47	4° 1
M31	6 40 31	10♁13'45	10♁19	16♁ 2	17♁30	3♁ 7	9♁19	14♁45	1♁40	26♁12	29♁47	4♁ 2

Delta T = 25.57 sec.

Greg. Calendar

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