

## **Appendix: Life and Works of Le Verrier in His Time**

Appendix A (continued)		Scientific and political events
Life	Works and scientific career	
<b>1811, 12 March.</b>	Birth of Urbain-Jean-Joseph Le Verrier in Saint-Lô	
<b>1831.</b>	Enters École polytechnique	<b>1821.</b> Publication by Bouvard of his <i>Tables d'Uranus</i> , where he notices unexplained anomalies in the motions of the planet
<b>1833.</b>	Leaves École polytechnique and enters the tobacco administration	<b>1830.</b> Arago is elected <i>secrétaire perpétuel</i> of Academy of sciences
<b>1836.</b>	Le Verrier resigns from administration	<b>1834.</b> Arago is nominated <i>directeur des observations</i> of the Paris Observatory
<b>1837.</b>	<i>Répétiteur</i> at École polytechnique. Marriage with Lucile-Marie-Clotilde Choquet	<b>1835.</b> First paper, on the chemistry of phosphorus
<b>1846.</b>	Elected to Academy of sciences. Professor at the University, adjunct member of Bureau des longitudes	<b>1839.</b> First papers on the stability of the Solar system <b>1843.</b> Works on the orbit of Mercury <b>1844.</b> Memoirs on the comets Works on the anomalous movement of Uranus, leading to the discovery of Neptune on 23 September
<b>1849.</b>	Deputy of La Manche at the legislative Assembly. Professor at École polytechnique	<b>1848.</b> Revolution, founding of the 2 <sup>d</sup> Republic
		<b>1851.</b> <i>Coup d'état</i> of Louis-Napoléon Bonaparte The electric telegraph is open to the public

- 1852.** Senator of the Empire. President of the General council of La Manche
- 1854.** Director of the Paris Observatory
- 1853.** Works on minor planets, theory of the motion of the Earth (completed in 1858)
- Reorganisation of the Observatory
- Measurement of the longitude difference between Paris and Greenwich with the electric telegraph
- 1856.** Measurement of the longitude difference between Paris and Bourges
- Creation of the national meteorological network
- 1857.** First meteorological forecast in France.  
Creation of the international meteorological network
- 1859.** Le Verrier discovers the anomalous advance of the perihelion of Mercury, which would later give the first verification of General Relativity
- 1861.** Theory of the motions of Venus and Mars
- 1860, 18 July.** Total solar eclipse in Spain, attended by Le Verrier and Foucault
- 1862.** Foucault and Eichenens build a 80 cm reflector with a silvered glass mirror for the Marseille Observatory, which becomes in 1863 a branch of the Paris Observatory.  
Foucault makes the first accurate measurement of the velocity of light
- 1863.** First synoptic meteorologic maps of Europe
- 1864.** Founding of the *Association scientifique*
- 1867.** Discovery by Wolf and Rayet of the emission-line stars which bear their names

(continued)

Appendix A (continued)	Life	Works and scientific career	Scientific and political events
<b>1868.</b>	Beginning of problems with the authorities		<b>18 August.</b> Total solar eclipse in Siam, attended by Stephan, Rayet and Tisserand
<b>1869.</b>			Founding of the meteorological observatory of Montsouris, which becomes in 1872 a branch of the Paris Observatory
<b>1870.</b>	Dismissal of Le Verrier		Delaunay replaces Le Verrier
<b>1871.</b>			War with Prussia
<b>1871.</b>			Defeat of France, and founding of the 3 <sup>d</sup> Republic
<b>1872.</b>			Death of Delaunay
<b>1873.</b>	Second nomination as director of the Observatory	Reorganisation of the meteorological service. The Montsouris meteorological observatory is separated from the Paris Observatory	
<b>1876.</b>		Theory of the movements of Jupiter, Saturn, Uranus and Neptune, and tables for Jupiter and Saturn	The mirror of the 120 cm reflector is found to be bad
<b>1877, 23 September.</b>	Death of Le Verrier	Tables of Uranus and Neptune	
<b>1889.</b>	Inauguration of the statue of Le Verrier at the Observatory		<b>1878.</b> The meteorological service is separated from the Observatory and becomes the <i>Bureau central météorologique</i>
<b>1946.</b>	Exhibition <i>Le Verrier et son temps</i> at the Paris Observatory		
<b>2011.</b>	Exhibition <i>Le Verrier, les coulisses de la découverte de Neptune</i> at the Paris Observatory (also virtual exhibition on <a href="http://expositions.obspm.fr">http://expositions.obspm.fr</a> )	For the centenary of Le Verrier's birth, the Academy of sciences publishes many documents and an almost complete list of his publications	

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