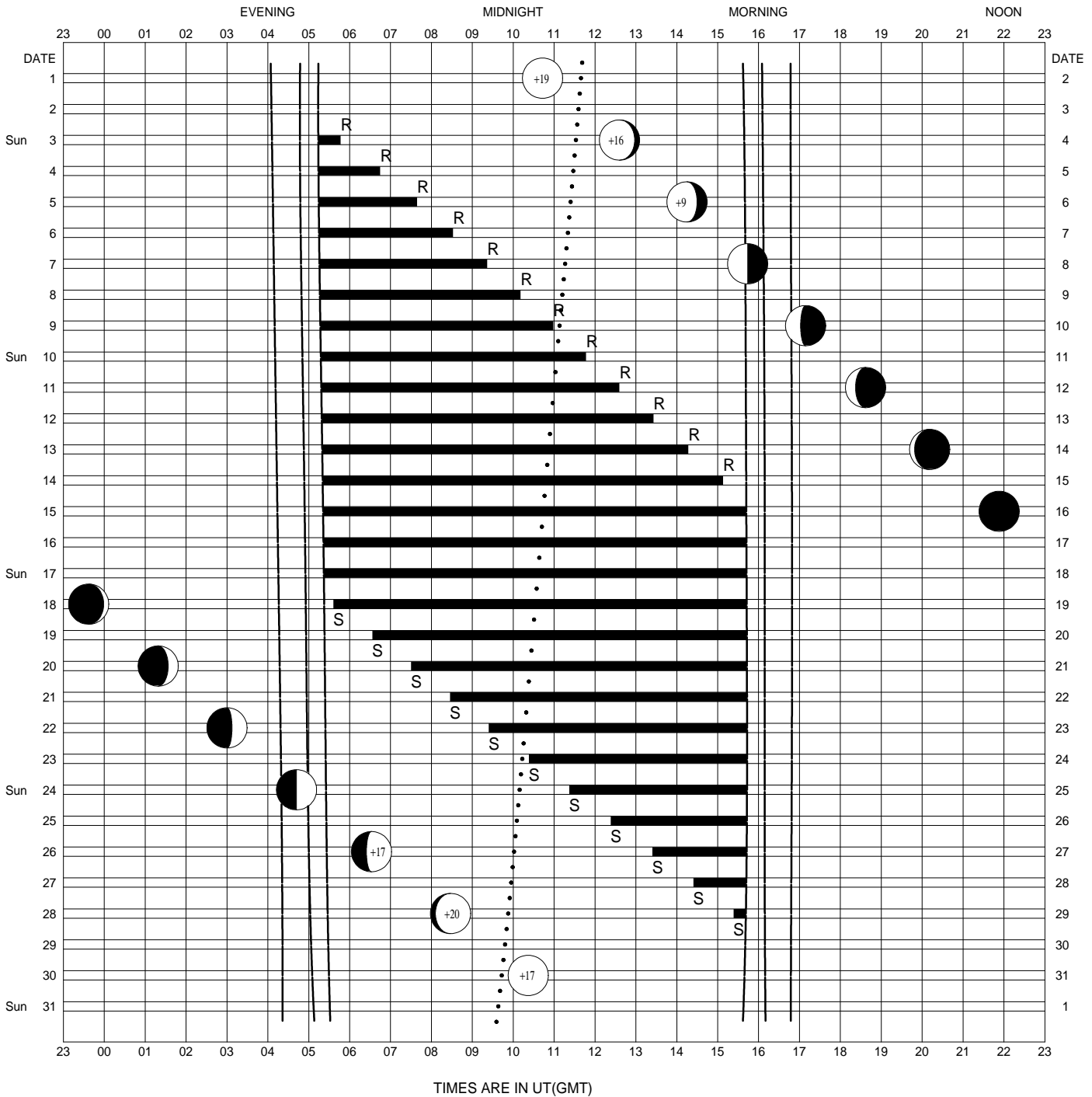


DAYLIGHT AND MOONLIGHT DIAGRAM

JANUARY 1999

Mauna Kea - Hawai'i

LONGITUDE W 155° 28'
 LATITUDE N 19° 50'



At night, in the shaded region, the Moon is below the horizon; the Moon rises at R and sets at S.
 At Moon upper transit, phases including declination near full phase are given.
 The dotted line near midnight is LST = 08h. The outer curves are lines of sunset and sunrise.
 The inner curves are lines of evening and morning nautical twilight.
 The innermost curves are lines of evening and morning astronomical twilight.