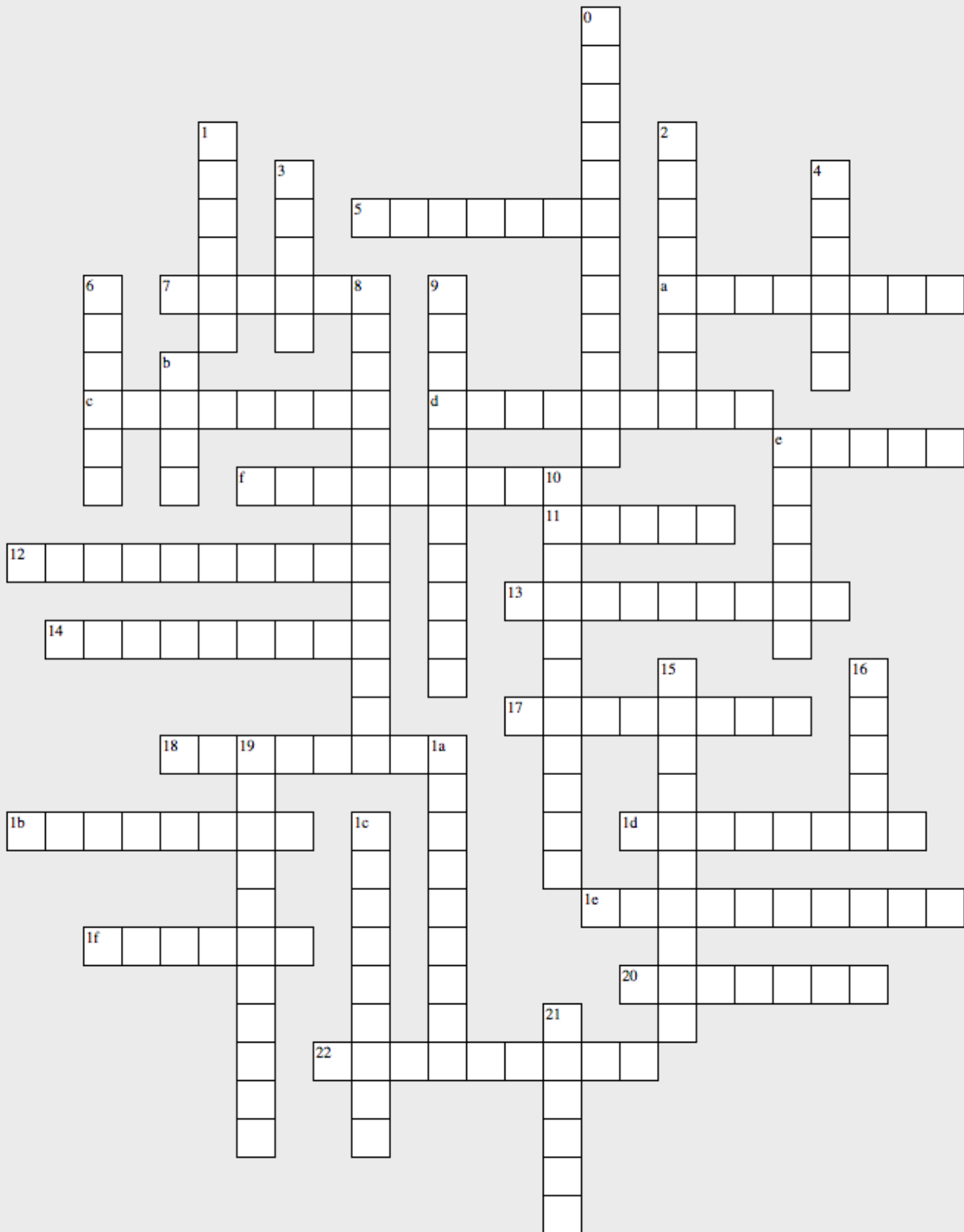


CAP - OCS Crossword Puzzle - April 20th



Across

5. A temporary dark blemish on the surface of the Sun
7. Greek for “circle of animals.” It’s the set of constellations situated along the ecliptic in the sky
 - a. The time after sunset or before sunrise when the sky is not fully dark.
 - c. Every elliptical orbit has two apsides: The periapsis and the _____.
 - d. The distance that light travels in one year, or about 6 trillion miles.
 - e. Direction in space from the observer pointing towards the orbited body. Opposite of zenith.
 - f. A star ending its life in a huge explosion.
11. The fraction of the Moon or other body that we see illuminated by sunlight.
12. Oval shaped, often in reference to your orbit.
13. A concentration of mass so dense that nothing can escape it
14. A person that is trained and certified by the Russian Space Agency to work in space
17. A solid body orbiting the Sun that consists of metal and rock.
18. This Cosmodrome is the world’s first and largest operational space launch facility.
 - 1b. The two times each year when the Sun is farthest north or south in the sky.
 - 1d. Rate of change of the position. It is the combination of speed with the direction.
 - 1e. When an object moves in the reverse sense of “normal” motion (Clockwise instead of counterclockwise)
 - 1f. The changing illumination of the Moon (more illuminated) over time.
20. The force exerted by all objects with mass.
22. Right side of the ship.

Down

0. The measure of how much an orbit deviates from being circular.
1. A brief streak of light caused by a small piece of solid matter entering the atmosphere
2. The diameter of a telescope’s main lens or mirror
3. The curved path of a celestial object or spacecraft around a star, planet, or moon
4. The point in the sky that’s directly overhead
6. A vast collection of stars, gas, and dust, containing billions of stars
8. A distinctive pattern of stars used informally to organize a part of the sky.
9. The celestial equivalent of latitude, denoting how far an object in the sky lies north or south of the celestial equator.
 - b. Left side of the ship.
 - e. Latin for “cloud.” These are great clouds of glowing gas
10. Name of the first American-Soviet combined space docking.
15. The path that a moving object follows through space as a function of time.
16. A “dirty snowball” of ice and rocky debris that orbits the Sun in a long ellipse.
19. The angle between the plane of an orbit and a reference plane.
 - 1a. A telescope that gathers light with a lens.
 - 1c. A telescope that gathers light with a mirror.
21. The changing illumination of the Moon (less illuminated) over time.