

HX-7

HX-7 is one of the twenty systems charted by [Taisa Hanako](#) while she commanded the [YSS Elfin Princess](#) in [YE 30](#).

System Data

HX-7 (Star)

- Type G7 V Yellow Main Sequence
- Radius 6.37×10^5 km (0.92 x sol)
- Mass 1.26×10^{30} kg (0.63 x sol)
- Temperature 5200 K
- Luminosity 3.76×10^{26} W (0.98 x sol)

I



- Type Rock Planet
- Orbital Radius 6.46×10^7 km (0.43 AU)
- Period 3.12×10^3 hours (0.36 earth years)
- Gravity 5.69 m/s² (0.58 x earth)

II



- Type Asteroid Belt
- Orbital Radius 8.86×10^7 km (0.59 AU)
- Period 5.00×10^3 hours (0.57 earth years)

III



- Type Terrestrial World
- Orbital Radius 1.23×10^8 km (0.82 AU)
- Period 8.14×10^3 hours (0.93 earth years)
- Physics Small ocean
- Hydrosphere 98 % water, 11 % ice
- Atmosphere Standard toxic
- Biosphere Microbes
- Special Electromagnetic storms

IV



- Type Terrestrial World
- Orbital Radius 1.80×10^8 km (1.20 AU)
- Period 1.45×10^4 hours (1.66 earth years)
- Physics Small iron/silicate
- Hydrosphere 53 % water, 47 % ice
- Atmosphere Thin toxic
- Biosphere Microbes, algae

V



- Type Rock Planet
- Orbital Radius 3.09×10^8 km (2.06 AU)
- Period 3.25×10^4 hours (3.72 earth years)
- Gravity 11.61 m/s² (1.19 x earth)

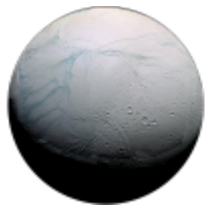
- Special Planetary rings, trace atmosphere

VI



- Type Rock Planet
- Orbital Radius 5.53×10^8 km (3.70 AU)
- Period 7.81×10^4 hours (8.93 earth years)
- Gravity 8.27 m/s² (0.85 x earth)
- Special Heavy volcanism

VII



- Type Ice Planet
- Orbital Radius 1.03×10^9 km (6.90 AU)
- Period 1.99×10^5 hours (22.75 earth years)
- Gravity 15.22 m/s² (1.56 x earth)

Planetary Data

HX-7 III

Physics

- Type Small ocean
- Radius 4447.59 km (0.70 x earth)
- Surface Area 2.49×10^8 km²
- Land Area 7.46×10^6 km² (0.05 x earth)
- Mass 2.07×10^{24} kg (0.35 x earth)
- Density 5.63 g/cm³ (1.02 x earth)
- Composition 30.5% oxygen, 22.3% iron, 16.2% magnesium, 9.9% silicon, 4.0% calcium, 16.2%

other metals, 0.8% other elements

Gravimetry

- Gravity 6.96 m/s² (0.71 x earth)
- Escape Velocity 7.87 km/s
- Rotation
- Period 20.48 hours
- Axis Tilt 15.56 °

Hydrosphere

- Water 98 %
- Ice 11 %

Atmosphere

- Type Standard toxic
- Pressure 97.35 kPa (0.96 x earth)
- Composition 76.1% sulfur dioxide, 18.0% oxygen, 5.1% carbon dioxide, 0.7% argon, trace other gases

Climate

- Type Cool
- Min Temp 247 K (-25 °C)
- Avg Temp 298 K (25 °C)
- Max Temp 394 K (121 °C)

Biosphere

- Chemistry Carbon
- Lifeforms Microbes
- Special Features Electromagnetic storms

HX-7 IV

Physics

- Type Small iron/silicate
- Radius 1741.66 km (0.27 x earth)

- Surface Area $3.81 \times 10^7 \text{ km}^2$
- Land Area $1.83 \times 10^7 \text{ km}^2$ (0.12 x earth)
- Mass $1.24 \times 10^{23} \text{ kg}$ (0.02 x earth)
- Density 5.62 g/cm^3 (1.02 x earth)
- Composition 29.8% oxygen, 25.9% iron, 17.5% magnesium, 15.3% silicon, 11.2% other metals, 0.3% other elements

Gravimetry

- Gravity 2.72 m/s^2 (0.28 x earth)
- Escape Velocity 3.08 km/s
- Rotation
- Period 26.74 hours
- Axis Tilt 70.79°

Hydrosphere

- Water 53 %
- Ice 47 %

Atmosphere

- Type Thin toxic
- Pressure 22.54 kPa (0.22 x earth)
- Composition 52.8% sulfur dioxide, 26.3% oxygen, 18.9% carbon dioxide, 2.0% argon, trace other gases

Climate

- Type Cold
- Min Temp 189 K (-83°C)
- Avg Temp 277 K (4°C)
- Max Temp 383 K (110°C)

Biosphere

- Chemistry Nitrogen-phosphorous
- Lifeforms Microbes, algae

Places of the SARPiverse

Place Categories	star system
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Last update: **2023/12/20 18:22**

