Ð¡Ð¿Ñƒ,Ð½Ð¸ÐºÐ¾Ð¾Ð²Ñ‹Ð¹ ÐºÐ°Ð»ÑŒÐºÑƒÐ»Ñ•Ñ‚Ð¾Ñ€

Ð¡Ð¿Ñƒ,Ð½Ð¸ÐºÐ¾Ð¾Ð²Ñ‹Ð¹ ÐºÐ°Ð»ÑŒÐºÑƒÐ»Ñ•Ñ‚Ð¾Ñ€.

ÐŸÐ¾Ð·Ð²Ð¾Ð»Ñ•ÐµÑ‚, Ð²Ñ‹Ñ‡Ð¸Ñ•Ð»Ð¸Ñ‚ÑŒ Ð´Ð»Ñ• Ð½ÑƒÐ¶Ð½Ð¾Ð³Ð¾ Ñ•Ð¿Ñƒ,Ð½Ð¸ÐºÐ° Ð°Ð·Ð¡Ð¼Ñƒ, Ð¸ Ñƒ
Ð¸Ð·Ð²ÐµÑ•Ñ‚Ð½Ñ‹Ñ… Ð³ÐµÐ¾Ð³Ñ€Ð°Ñ„Ð¸Ñ‡ÐµÑ•ÐºÐ¸Ñ… ÐºÐ¾Ð¾Ñ€Ð´Ð¸Ð½Ð°Ñ‚Ð°Ñ… Ð¼ÐµÑ•Ñ‚Ð° Ñƒ Ñ•Ñ‚Ð°Ð½Ð¾

```
function recalc(l,h){
 s='';
 t1=Math.floor(l);
 s=s+t1;
 s=s+'Â°';
 t2=l-t1;
 t3=t2*60;
 t4=Math.floor(t3);
 s=s+t4;
 s=s+'\'';
 t5=t4/60;
 t6=t2-t5;
 t6=t6*10000;
 t6=Math.floor(t6);
 s=s+t6;
 s=s+'\"';
 document.form1.shir.value=s;


 s='';
 t1=Math.floor(h);
 s=s+t1;
 s=s+'Â°';
 t2=h-t1;
 t3=t2*60;
 t4=Math.floor(t3);
 s=s+t4;
 s=s+'\'';
 t5=t4/60;
 t6=t2-t5;
 t6=t6*10000;
 t6=Math.floor(t6);
 s=s+t6;
 s=s+'\"';
 document.form1.dolg.value=s;

 document.form1.hshir.value=h;
 document.form1.hdolg.value=l;
}

function ukrcalc(){
 if (document.form1.ukr.value == "0") {document.form1.shir.value=""; document.form1.dolg.value="";}

 if (document.form1.ukr.value == "1") recalc(30.1667, 49.8167);
 if (document.form1.ukr.value == "2") recalc(36.7833, 46.7500);
 if (document.form1.ukr.value == "3") recalc(32.0667, 49.4500);
 if (document.form1.ukr.value == "4") recalc(31.3000, 51.5000);
 if (document.form1.ukr.value == "5") recalc(25.8667, 48.3167);
```

```
 if (document.form1.ukr.value == "6") recalc(34.6167, 48.5000);
 if (document.form1.ukr.value == "7") recalc(35.0000, 48.4833);
 if (document.form1.ukr.value == "8") recalc(37.8333, 48.0000);
 if (document.form1.ukr.value == "9") recalc(38.2500, 48.2333);
 if (document.form1.ukr.value == "10") recalc(33.3333, 45.2000);
 if (document.form1.ukr.value == "11") recalc(38.0833, 48.2833);
 if (document.form1.ukr.value == "12") recalc(24.6667, 48.6667);
 if (document.form1.ukr.value == "13") recalc(36.4500, 45.3667);
 if (document.form1.ukr.value == "14") recalc(36.2500, 50.0000);
 if (document.form1.ukr.value == "15") recalc(32.6333, 46.6500);
 if (document.form1.ukr.value == "16") recalc(26.9833, 49.4167);
 if (document.form1.ukr.value == "17") recalc(30.5000, 50.4167);
 if (document.form1.ukr.value == "18") recalc(32.2500, 48.5167);
 if (document.form1.ukr.value == "19") recalc(38.7833, 48.5000);
 if (document.form1.ukr.value == "20") recalc(37.7500, 48.5500);
 if (document.form1.ukr.value == "21") recalc(37.5500, 48.7167);
 if (document.form1.ukr.value == "22") recalc(39.0000, 48.1667);
 if (document.form1.ukr.value == "23") recalc(33.4167, 49.0500);
 if (document.form1.ukr.value == "24") recalc(33.4000, 47.9167);
 if (document.form1.ukr.value == "25") recalc(38.4167, 48.8833);
 if (document.form1.ukr.value == "26") recalc(39.3333, 48.5833);
 if (document.form1.ukr.value == "27") recalc(25.2500, 50.7000);
 if (document.form1.ukr.value == "28") recalc(24.0000, 49.8333);
 if (document.form1.ukr.value == "29") recalc(38.0000, 48.0167);
 if (document.form1.ukr.value == "30") recalc(37.5667, 47.0833);
 if (document.form1.ukr.value == "31") recalc(35.3667, 46.8500);
 if (document.form1.ukr.value == "32") recalc(32.0000, 46.9667);
 if (document.form1.ukr.value == "33") recalc(34.4167, 47.5667);
 if (document.form1.ukr.value == "34") recalc(35.2833, 48.5500);
 if (document.form1.ukr.value == "35") recalc(30.7492, 46.5000);
 if (document.form1.ukr.value == "36") recalc(35.3314, 44.9667);
 if (document.form1.ukr.value == "37") recalc(35.8333, 48.5667);
 if (document.form1.ukr.value == "38") recalc(34.5833, 49.5833);
 if (document.form1.ukr.value == "39") recalc(26.1667, 50.6500);
 if (document.form1.ukr.value == "40") recalc(33.5167, 44.6000);
 if (document.form1.ukr.value == "41") recalc(38.4833, 48.9667);
 if (document.form1.ukr.value == "42") recalc(34.0833, 44.9500);
 if (document.form1.ukr.value == "43") recalc(38.6508, 48.5633);
 if (document.form1.ukr.value == "44") recalc(34.8167, 50.9167);
 if (document.form1.ukr.value == "45") recalc(25.6500, 49.5833);
 if (document.form1.ukr.value == "46") recalc(22.2500, 48.6333);
 if (document.form1.ukr.value == "47") recalc(28.5000, 49.1833);
 if (document.form1.ukr.value == "48") recalc(35.1667, 47.8333);
 if (document.form1.ukr.value == "49") recalc(28.6667, 50.3000);
}

function belcalc(){
 if (document.form1.bel.value == "0") {document.form1.shir.value=""; document.form1.dolg.value="";}


 if (document.form1.bel.value == "1") recalc(26.0000, 53.1500);
 if (document.form1.bel.value == "2") recalc(29.1667, 53.1333);
 if (document.form1.bel.value == "3") recalc(28.5000, 54.1500);
 if (document.form1.bel.value == "4") recalc(23.6667, 52.1333);
 if (document.form1.bel.value == "5") recalc(31.0000, 52.4167);
 if (document.form1.bel.value == "6") recalc(23.8333, 53.6667);
 if (document.form1.bel.value == "7") recalc(27.5000, 53.8500);
 if (document.form1.bel.value == "8") recalc(30.3333, 53.9000);
 if (document.form1.bel.value == "9") recalc(30.3833, 54.5000);
 if (document.form1.bel.value == "10") recalc(26.0167, 52.1333);
 if (document.form1.bel.value == "11") recalc(30.2333, 55.1667);
}

function latcalc(){
 if (document.form1.lat.value == "0") {document.form1.shir.value=""; document.form1.dolg.value="";}
```

```
 if (document.form1.lat.value == "1") recalc(26.5167, 55.8667);
 if (document.form1.lat.value == "2") recalc(21.0175, 56.4825);
 if (document.form1.lat.value == "3") recalc(24.1333, 56.8833);
}

function litcalc(){
 if (document.form1.lit.value == "0") {document.form1.shir.value=""; document.form1.dolg.value="";}

 if (document.form1.lit.value == "1") recalc(23.9167, 54.8667);
 if (document.form1.lit.value == "2") recalc(21.1167, 55.7167);
 if (document.form1.lit.value == "3") recalc(24.4000, 55.7333);
 if (document.form1.lit.value == "4") recalc(25.3167, 54.6667);
}

function estcalc(){
 if (document.form1.est.value == "0") {document.form1.shir.value=""; document.form1.dolg.value="";}

 if (document.form1.est.value == "1") recalc(24.8000, 59.3667);
 if (document.form1.est.value == "2") recalc(26.7333, 58.3333);
}

function armcalc(){
 if (document.form1.arm.value == "0") {document.form1.shir.value=""; document.form1.dolg.value="";}

 if (document.form1.arm.value == "1") recalc(44.5167, 40.1667);
}

function grucalc(){
 if (document.form1.gru.value == "0") {document.form1.shir.value=""; document.form1.dolg.value="";}

 if (document.form1.gru.value == "1") recalc(41.6353, 41.5992);
 if (document.form1.gru.value == "2") recalc(42.7333, 42.2500);
 if (document.form1.gru.value == "3") recalc(45.0500, 41.5667);
 if (document.form1.gru.value == "4") recalc(41.0167, 43.0167);
 if (document.form1.gru.value == "5") recalc(44.8000, 41.7167);
}

function adzcalc(){
 if (document.form1.gru.value == "0") {document.form1.shir.value=""; document.form1.dolg.value="";}

 if (document.form1.adz.value == "1") recalc(49.8833, 40.3666);
 if (document.form1.adz.value == "2") recalc(46.1666, 40.7500);
 if (document.form1.adz.value == "3") recalc(49.6333, 40.5833);
}

function kazcalc(){
 if (document.form1.kaz.value == "0") {document.form1.shir.value=""; document.form1.dolg.value="";}

 if (document.form1.kaz.value == "1") recalc(57.2167, 50.2667);
 if (document.form1.kaz.value == "2") recalc(76.9167, 43.3167);
 if (document.form1.kaz.value == "3") recalc(71.4667, 51.1667);
 if (document.form1.kaz.value == "4") recalc(69.0833, 42.2667);
 if (document.form1.kaz.value == "5") recalc(71.0000, 43.1667);
 if (document.form1.kaz.value == "6") recalc(67.4000, 47.8000);
 if (document.form1.kaz.value == "7") recalc(51.9833, 47.1333);
 if (document.form1.kaz.value == "8") recalc(73.1167, 49.8833);
 if (document.form1.kaz.value == "9") recalc(69.4167, 53.3000);
 if (document.form1.kaz.value == "10") recalc(63.6667, 53.2500);
 if (document.form1.kaz.value == "11") recalc(65.4667, 44.8667);
 if (document.form1.kaz.value == "12") recalc(76.9833, 52.3500);
 if (document.form1.kaz.value == "13") recalc(69.2167, 54.8833);
 if (document.form1.kaz.value == "14") recalc(44.5833, 50.8167);
 if (document.form1.kaz.value == "15") recalc(80.2667, 50.4333);
 if (document.form1.kaz.value == "16") recalc(58.5000, 48.4500);
```

```
 if (document.form1.kaz.value == "17") recalc(37.1833, 48.2333);
 if (document.form1.kaz.value == "18") recalc(78.3833, 45.0333);
 if (document.form1.kaz.value == "19") recalc(72.9167, 50.0833);
 if (document.form1.kaz.value == "20") recalc(51.3333, 51.3167);
 if (document.form1.kaz.value == "21") recalc(82.6000, 49.9667);
}

function ruscalc(){
 if (document.form1.rus.value == "0") {document.form1.shir.value=""; document.form1.dolg.value="";}

 if (document.form1.rus.value == "1") recalc(91.4167, 53.7167);
 if (document.form1.rus.value == "2") recalc(90.5500, 56.3333);
 if (document.form1.rus.value == "3") recalc(52.3667, 54.8333);
 if (document.form1.rus.value == "4") recalc(103.9167, 52.5167);
 if (document.form1.rus.value == "5") recalc(86.0167, 56.1667);
 if (document.form1.rus.value == "6") recalc(41.0000, 64.6667);
 if (document.form1.rus.value == "7") recalc(43.8000, 55.4000);
 if (document.form1.rus.value == "8") recalc(48.0667, 46.3667);
 if (document.form1.rus.value == "9") recalc(47.7667, 52.0667);
 if (document.form1.rus.value == "10") recalc(37.9833, 55.7833);
 if (document.form1.rus.value == "11") recalc(83.7500, 53.3500);
 if (document.form1.rus.value == "12") recalc(36.6000, 50.6333);
 if (document.form1.rus.value == "13") recalc(86.3167, 54.4500);
 if (document.form1.rus.value == "14") recalc(56.8167, 59.4333);
 if (document.form1.rus.value == "15") recalc(85.2667, 52.5833);
 if (document.form1.rus.value == "16") recalc(127.5000, 50.3167);
 if (document.form1.rus.value == "17") recalc(101.8333, 56.3333);
 if (document.form1.rus.value == "18") recalc(34.1500, 53.2500);
 if (document.form1.rus.value == "19") recalc(47.2000, 56.1333);
 if (document.form1.rus.value == "20") recalc(61.4167, 55.2000);
 if (document.form1.rus.value == "21") recalc(37.8333, 59.1500);
 if (document.form1.rus.value == "22") recalc(42.0833, 44.2333);
 if (document.form1.rus.value == "23") recalc(113.5833, 52.0500);
 if (document.form1.rus.value == "24") recalc(49.6167, 54.2333);
 if (document.form1.rus.value == "25") recalc(38.5000, 55.7667);
 if (document.form1.rus.value == "26") recalc(38.5000, 52.5833);
 if (document.form1.rus.value == "27") recalc(46.1167, 51.5000);
 if (document.form1.rus.value == "28") recalc(45.7000, 43.3500);
 if (document.form1.rus.value == "29") recalc(104.2500, 52.3000);
 if (document.form1.rus.value == "30") recalc(41.9900, 57.0000);
 if (document.form1.rus.value == "31") recalc(53.2333, 56.8500);
 if (document.form1.rus.value == "32") recalc(20.5000, 54.6667);
 if (document.form1.rus.value == "33") recalc(37.9167, 55.9333);
 if (document.form1.rus.value == "34") recalc(36.2667, 54.5167);
 if (document.form1.rus.value == "35") recalc(61.8167, 56.4833);
 if (document.form1.rus.value == "36") recalc(45.4000, 50.0833);
 if (document.form1.rus.value == "37") recalc(95.8000, 56.1833);
 if (document.form1.rus.value == "38") recalc(49.1667, 55.7500);
 if (document.form1.rus.value == "39") recalc(86.0833, 55.4167);
 if (document.form1.rus.value == "40") recalc(135.1333, 48.5333);
 if (document.form1.rus.value == "41") recalc(37.4333, 55.8833);
 if (document.form1.rus.value == "42") recalc(42.1333, 57.4667);
 if (document.form1.rus.value == "43") recalc(49.6667, 58.5833);
 if (document.form1.rus.value == "44") recalc(86.6833, 54.0167);
 if (document.form1.rus.value == "45") recalc(42.7333, 43.9333);
 if (document.form1.rus.value == "46") recalc(38.7500, 55.0833);
 if (document.form1.rus.value == "47") recalc(30.6500, 59.7333);
 if (document.form1.rus.value == "48") recalc(136.9833, 50.5333);
 if (document.form1.rus.value == "49") recalc(40.9833, 57.7667);
 if (document.form1.rus.value == "50") recalc(41.3500, 56.3833);
 if (document.form1.rus.value == "51") recalc(39.0000, 45.0333);
 if (document.form1.rus.value == "52") recalc(92.7667, 56.0833);
 if (document.form1.rus.value == "53") recalc(65.3333, 55.5000);
 if (document.form1.rus.value == "54") recalc(36.2333, 51.7500);
 if (document.form1.rus.value == "55") recalc(86.2167, 54.7333);
```

```
if (document.form1.rus.value == "56") recalc(39.6000, 52.6167);
if (document.form1.rus.value == "57") recalc(37.9667, 55.6333);
if (document.form1.rus.value == "58") recalc(150.8333, 59.6333);
if (document.form1.rus.value == "59") recalc(59.1000, 53.4667);
if (document.form1.rus.value == "60") recalc(40.8000, 44.6167);
if (document.form1.rus.value == "61") recalc(47.5000, 42.9833);
if (document.form1.rus.value == "62") recalc(88.1833, 54.7167);
if (document.form1.rus.value == "63") recalc(60.1333, 55.0000);
if (document.form1.rus.value == "64") recalc(40.5000, 52.9000);
if (document.form1.rus.value == "65") recalc(37.7000, 55.7500);
if (document.form1.rus.value == "66") recalc(33.1333, 68.9833);
if (document.form1.rus.value == "67") recalc(42.0667, 55.5667);
if (document.form1.rus.value == "68") recalc(37.7833, 55.9000);
if (document.form1.rus.value == "69") recalc(52.3167, 55.7000);
if (document.form1.rus.value == "70") recalc(132.8947, 42.8333);
if (document.form1.rus.value == "71") recalc(43.6333, 43.5167);
if (document.form1.rus.value == "72") recalc(41.9833, 44.6333);
if (document.form1.rus.value == "73") recalc(51.7833, 55.6000);
if (document.form1.rus.value == "74") recalc(76.6667, 60.9500);
if (document.form1.rus.value == "75") recalc(45.0667, 57.6000);
if (document.form1.rus.value == "76") recalc(59.9667, 58.0000);
if (document.form1.rus.value == "77") recalc(38.4833, 55.8667);
if (document.form1.rus.value == "78") recalc(88.0333, 69.3500);
if (document.form1.rus.value == "79") recalc(31.3333, 58.5000);
if (document.form1.rus.value == "80") recalc(47.4500, 56.0833);
if (document.form1.rus.value == "81") recalc(40.0833, 47.4167);
if (document.form1.rus.value == "82") recalc(49.9833, 53.0833);
if (document.form1.rus.value == "83") recalc(87.2000, 53.7500);
if (document.form1.rus.value == "84") recalc(37.7667, 44.7333);
if (document.form1.rus.value == "85") recalc(39.9167, 47.7667);
if (document.form1.rus.value == "86") recalc(83.0833, 55.0667);
if (document.form1.rus.value == "87") recalc(37.2500, 55.6500);
if (document.form1.rus.value == "88") recalc(53.5000, 54.5000);
if (document.form1.rus.value == "89") recalc(73.3667, 55.0000);
if (document.form1.rus.value == "90") recalc(39.0000, 55.7833);
if (document.form1.rus.value == "91") recalc(36.0667, 52.9667);
if (document.form1.rus.value == "92") recalc(55.0000, 51.8333);
if (document.form1.rus.value == "93") recalc(58.5833, 51.2167);
if (document.form1.rus.value == "94") recalc(45.0000, 53.1833);
if (document.form1.rus.value == "95") recalc(56.1667, 58.0167);
if (document.form1.rus.value == "96") recalc(59.9667, 56.9833);
if (document.form1.rus.value == "97") recalc(158.7167, 53.0500);
if (document.form1.rus.value == "98") recalc(34.3167, 61.7667);
if (document.form1.rus.value == "99") recalc(28.4333, 57.8000);
if (document.form1.rus.value == "100") recalc(43.1000, 440667);
if (document.form1.rus.value == "101") recalc(39.7500, 47.2500);
if (document.form1.rus.value == "102") recalc(81.1833, 51.5667);
if (document.form1.rus.value == "103") recalc(38.1667, 56.3333);
if (document.form1.rus.value == "104") recalc(55.8333, 53.3667);
if (document.form1.rus.value == "105") recalc(50.1667, 53.1667);
if (document.form1.rus.value == "106") recalc(45.1667, 54.2000);
if (document.form1.rus.value == "107") recalc(60.9667, 64.2500);
if (document.form1.rus.value == "108") recalc(45.9167, 51.5000);
if (document.form1.rus.value == "109") recalc(60.5333, 59.7000);
if (document.form1.rus.value == "110") recalc(37.4167, 54.8833);
if (document.form1.rus.value == "111") recalc(39.8333, 64.5658);
if (document.form1.rus.value == "112") recalc(38.0833, 55.9333);
if (document.form1.rus.value == "113") recalc(37.6000, 48.8500);
if (document.form1.rus.value == "114") recalc(32.0667, 54.8167);
if (document.form1.rus.value == "115") recalc(39.7667, 43.5833);
if (document.form1.rus.value == "116") recalc(56.7500, 59.6667);
if (document.form1.rus.value == "117") recalc(30.4167, 59.9167);
if (document.form1.rus.value == "118") recalc(37.8333, 51.3333);
if (document.form1.rus.value == "119") recalc(41.9833, 45.0500);
if (document.form1.rus.value == "120") recalc(55.9833, 53.6667);
```

```
 if (document.form1.rus.value == "121") recalc(73.3333, 61.2167);
 if (document.form1.rus.value == "122") recalc(50.7500, 61.7000);
 if (document.form1.rus.value == "123") recalc(48.4833, 53.1667);
 if (document.form1.rus.value == "124") recalc(38.9167, 47.2333);
 if (document.form1.rus.value == "125") recalc(41.4667, 52.7333);
 if (document.form1.rus.value == "126") recalc(49.4000, 53.5333);
 if (document.form1.rus.value == "127") recalc(85.0833, 56.5000);
 if (document.form1.rus.value == "128") recalc(37.6333, 54.1833);
 if (document.form1.rus.value == "129") recalc(35.9500, 56.8167);
 if (document.form1.rus.value == "130") recalc(65.4833, 57.1833);
 if (document.form1.rus.value == "131") recalc(55.9667, 54.7500);
 if (document.form1.rus.value == "132") recalc(53.7333, 63.5500);
 if (document.form1.rus.value == "133") recalc(107.6667, 51.9167);
 if (document.form1.rus.value == "134") recalc(48.3667, 54.3167);
 if (document.form1.rus.value == "135") recalc(103.6667, 52.8000);
 if (document.form1.rus.value == "136") recalc(131.9833, 43.8000);
 if (document.form1.rus.value == "137") recalc(102.6500, 58.0500);
 if (document.form1.rus.value == "138") recalc(30.5167, 56.3167);
 if (document.form1.rus.value == "139") recalc(40.4167, 56.1333);
 if (document.form1.rus.value == "140") recalc(131.8833, 43.1500);
 if (document.form1.rus.value == "141") recalc(42.1333, 47.5833);
 if (document.form1.rus.value == "142") recalc(44.5000, 48.7500);
 if (document.form1.rus.value == "143") recalc(39.9167, 59.1667);
 if (document.form1.rus.value == "144") recalc(47.8500, 46.6500);
 if (document.form1.rus.value == "145") recalc(64.0000, 67.4500);
 if (document.form1.rus.value == "146") recalc(39.2167, 51.6661);
 if (document.form1.rus.value == "147") recalc(54.0000, 57.0000);
 if (document.form1.rus.value == "148") recalc(129.8333, 62.1667);
 if (document.form1.rus.value == "149") recalc(39.8667, 57.5667);
 if (document.form1.rus.value == "150") recalc(60.5833, 56.8667);
 if (document.form1.rus.value == "151") recalc(47.8667, 56.6333);
 if (document.form1.rus.value == "152") recalc(142.7500, 46.9667);
 if (document.form1.rus.value == "153") recalc(20.4667, 54.9500);
 if (document.form1.rus.value == "154") recalc(75.1667, 51.8333);
 if (document.form1.rus.value == "155") recalc(59.6333, 55.1667);
}

function satcalc(){
 if (document.form1.satp.value == "0") document.form1.sat.value="";
 document.form1.sat.value=document.form1.satp.value;
 document.form1.sat.value=document.form1.sat.value+"Â°";

 document.form1.hsat.value=document.form1.satp.value;
}

function fcalc() {
 if  (document.form1.hshir.value == "") alert('Ð'Ñ‹ Ð½Ðµ Ð²Ñ‹Ð±Ñ€Ð°Ð»Ð¸ Ð³Ð¾Ñ€Ð¾Ð´!'); else
  if  (document.form1.hdolg.value == "") alert('Ð'Ñ‹ Ð½Ðµ Ð²Ñ‹Ð±Ñ€Ð°Ð»Ð¸ Ð³Ð¾Ñ€Ð¾Ð´!'); else
   if  (document.form1.hshir.value == "") alert('Ð'Ñ‹ Ð½Ðµ Ð²Ñ‹Ð±Ñ€Ð°Ð»Ð¸ Ñ•Ð¿Ñƒ,Ð½Ð¸Ð°!'); else {

 pi=3.14159672;
   B=document.form1.hshir.value*pi/180;
   L=document.form1.hdolg.value*pi/180;
   Lc=document.form1.hsat.value*pi/180;

   Um=Math.atan((Math.cos(Lc-L)*Math.cos(B)-0.1513)/(Math.sqrt(1-Math.cos(Lc-L)*Math.cos(Lc-
L)*Math.cos(B)*Math.cos(B))));
   Um=Um*180/pi;
   A=Math.atan(Math.sin(L-Lc)/Math.cos(L-Lc)/Math.sin(B));
   A=A*180/pi+180;


 s='';
 t1=Math.floor(Um);
 s=s+t1;
```

```
 s=s+'Â°';
 t2=Um-t1;
 t3=t2*60;
 t4=Math.floor(t3);
 s=s+t4;
 s=s+'\'';
 t5=t4/60;
 t6=t2-t5;
 t6=t6*10000;
 t6=Math.floor(t6);
 s=s+t6;
 s=s+'\"';
document.form1.ugol.value=s;

 s='';
 t1=Math.floor(A);
 s=s+t1;
 s=s+'Â°';
 t2=A-t1;
 t3=t2*60;
 t4=Math.floor(t3);
 s=s+t4;
 s=s+'\'';
 t5=t4/60;
 t6=t2-t5;
 t6=t6*10000;
 t6=Math.floor(t6);
 s=s+t6;
 s=s+'\"';
document.form1.azim.value=s;

if ((Math.cos(Lc-L)*Math.cos(B)) < 0.1513) {document.all.vid.innerText='Ð¡Ð¿ÑƒÑ‚Ð½Ð¸Ðº Ð·Ð° Ð»Ð¸Ð½Ð¸ÐµÐ¹
Ð³Ð¾Ñ€Ð¸Ð·Ð¾Ð½Ñ‚Ð°!'; document.all.alert.bgColor='#FF0000';}
else {document.all.vid.innerText='Ð¡Ð¿ÑƒÑ‚Ð½Ð¸Ðº Ð½Ð°Ð´ Ð»Ð¸Ð½Ð¸ÐµÐ¹ Ð³Ð¾Ñ€Ð¸Ð·Ð¾Ð½Ñ‚Ð°!';
document.all.alert.bgColor='#00FF00';}
 };

}


INPUT {
 BORDER-TOP-WIDTH: 1px; BORDER-LEFT-WIDTH: 1px; FONT-SIZE: 10px; BORDER-LEFT-COLOR: #000000;
BORDER-BOTTOM-WIDTH: 1px; BORDER-BOTTOM-COLOR: #000000; COLOR: #000000; BORDER-TOP-COLOR:
#000000; FONT-FAMILY: Verdana,Helvetica; BACKGROUND-COLOR: #eeeeee; BORDER-RIGHT-WIDTH: 1px;
BORDER-RIGHT-COLOR: #000000
}
TEXTAREA {
 BORDER-TOP-WIDTH: 1px; BORDER-LEFT-WIDTH: 1px; FONT-SIZE: 10px; BORDER-LEFT-COLOR: #000000;
BORDER-BOTTOM-WIDTH: 1px; BORDER-BOTTOM-COLOR: #000000; COLOR: #000000; BORDER-TOP-COLOR:
#000000; FONT-FAMILY: Verdana,Helvetica; BACKGROUND-COLOR: #eeeeee; BORDER-RIGHT-WIDTH: 1px;
BORDER-RIGHT-COLOR: #000000
}
SELECT {
 BORDER-TOP-WIDTH: 1px; BORDER-LEFT-WIDTH: 1px; FONT-SIZE: 10px; BORDER-LEFT-COLOR: #000000;
BORDER-BOTTOM-WIDTH: 1px; BORDER-BOTTOM-COLOR: #000000; COLOR: #000000; BORDER-TOP-COLOR:
#000000; FONT-FAMILY: Verdana,Helvetica; BACKGROUND-COLOR: #eeeeee; BORDER-RIGHT-WIDTH: 1px;
BORDER-RIGHT-COLOR: #000000
}
FORM {
 FONT-SIZE: 11px; FONT-FAMILY: Verdana
}
```

Ð¡Ñ‚Ñ€Ð°Ð½Ð°:

Ð“Ð¾Ñ€Ð¾Ð´: Ñ•Ð½Ð°Ñ‡Ð°Ð»Ð°
Ð²Ñ‹Ð±ÐµÑ€Ð¸Ñ‚Ðµ Ñ•Ñ‚Ñ€Ð°Ð½Ñƒ

Ð”Ð¾Ð»Ð³Ð¾Ñ‚Ð°:

Ð¨Ð¸Ñ€Ð¾Ñ‚Ð°:

Ð¡Ñƒñ‚Ñ‚Ð¸Ñ‚Ðµ Ñ•Ð¿Ñƒñ‚Ð½Ð¸Ðº:

Ð²Ñ‹Ð±ÐµÑ€Ð¸Ñ‚Ðµ Ñ•Ð¿Ñƒñ‚Ð½Ð¸Ðº

Express AM3 (140E)
Express AM33 (96.5E)
NSS 6 (95E)
Yamal 201 (90E)

Express AM2 (80E)
Telstar 10 (76.5E)
ABS-1 (75E)
Intelsat 7/10 (68.5E)
Intelsat 704 (66E)
Intelsat 601, 906
(64E)

Intelsat 602 (62E)
Intelsat 904 (60E)
NSS 703 (57E)
Bonum 1 (56E)
Express 22AM (53E)
Yamal 202 (49E)

Intelsat 12 (45E)
Turksat 2A/3A (42E)
Eurasiasat 1 (42E)
Express AM1(40E)
Hellas Sat 2 (39E)
Eutelsat W4 Sesat
(36E)

Astra 5A (31.5E)
Arabsat 2B (30.5E)
Eurobird (28.2E)
Astra 2A/2B/2D (28.2E)
Badr-4/6 (26E)
Eutelsat II f4 (25.5E)

Astra 1D (24.2E)
Astra 1E/3A (23.5E)
Eutelsat II f3 (21.5E)
AfriStar (21E)
Astra 1F/G/H/KR/L/M
(19.2E)
Eutelsat W2 (16E)

Hot Bird 1/2/3/4
(13E)
Eutelsat W1 (10E)
Eutelsat W3 (7E)
Sirius 4
(4,8E)
Telecom 2B (3E)
Amos (4W)

Telstar 12(15W)

Ð"Ð¾Ð»Ð³Ð¾Ñ‚ Ñ•Ð¿Ñƒñ‚Ð½Ð¸ÐºÐ°:

Ð£Ð³Ð¾Ð»
Ð¼ÐµÑ•Ñ‚Ð°:

Ð•Ð·Ð¸Ð¼Ñƒñ‚:

Ð'Ð¸Ð´Ð¸Ð¼Ð¾Ñ•Ñ‚ÑŒ
Ñ•Ð¿Ñƒñ‚Ð½Ð¸ÐºÐ°: